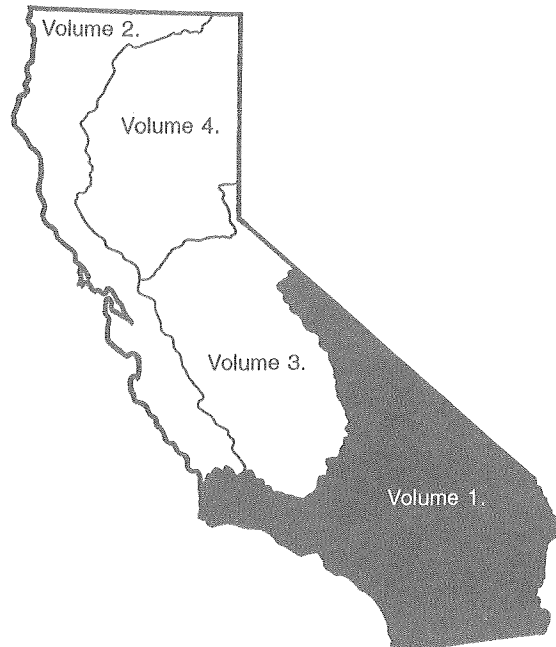


Water Resources Data California Water Year 1995

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



U.S. GEOLOGICAL SURVEY WATER-DATA REPORT CA-95-1
Prepared in cooperation with the California Department of
Water Resources and with other agencies

CALENDAR FOR WATER YEAR 1995

1994

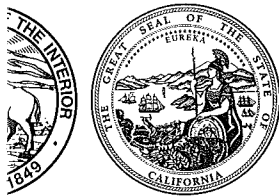
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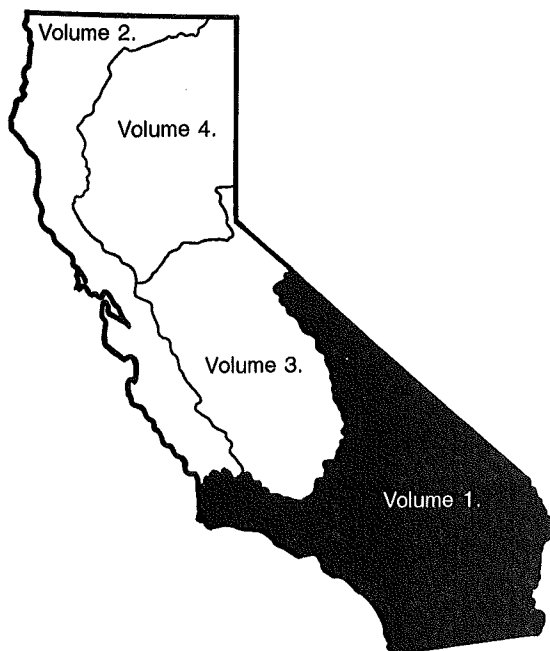
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Water Resources Data California Water Year 1995

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

by J.A. Agajanian, G.L. Rockwell, and P.D. Hayes



U.S. GEOLOGICAL SURVEY WATER-DATA REPORT CA-95-1
Prepared in cooperation with the California Department of
Water Resources and with other agencies

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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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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 collected: (d), discharge;
(l), elevation, gage heights, or contents; (c), chemical; (b), biological; (p), precipitation;
(g), gage height; (t), water temperature; and (s), sediment]

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

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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
09424050	Chemehuevi Wash Tributary near Needles	2.04	1960-62, 1966-68
09428530	Arch Creek near Earp	1.52	1961-71
10250600	Wildrose Creek near Wildrose Station	23.7	1961-73, 1975
10250800	Darwin Creek near Darwin	173	1963-89
10251000	Big Dip Creek near Stovepipe Wells	.95	1963-69
10251100	Salt Creek near Stovepipe Wells	--	1974-88
10251300	Amargosa River at Tecopa	3,090	1962-72, 1974-83
10251350	Horsethief Creek near Tecopa	3.06	1961-70
10252300	China Spring Creek near Mountain Pass	.94	1961-72
10252330	Wheaton Wash near Mountain Pass	10.2	1965-68
10253080	Sunflower Wash near Essex	3.04	1963-70
10253320	Quail Wash near Joshua Tree	100	1964-71
10253350	Fortynine Palms Creek near Twentynine Palms	8.55	1963-71
10253540	Corn Springs Wash near Desert Center	24.1	1964-71
10253600	Eagle Creek at Eagle Mountain	7.74	1961-66
10255200	Myer Creek Tributary near Jacumba	.11	1966-70
10255700	San Felipe Creek near Julian	89.2	1958-83
10255800	Coyote Creek near Borrego Springs	144	1951-83
10255805	Coyote Creek below Box Canyon, near Borrego Springs	154	1984-94
10255820	Yaqui Pass Wash near Borrego	.041	1965-69
10255850	Vallecito Creek near Julian	39.7	1964-83
10255885	San Felipe Creek near Westmorland	1,693	1961-91
10256000	Whitewater River at White Water	57.5	1949-79
10256050	Whitewater Municipal West Company Diversion at White Water	--	1966-70, 1971-73, 1975-81
10256060	Whitewater River at White Water Cutoff at White Water	59.1	1985-93
10256200	San Gorgonio River near Banning	14.8	1976-81
10256300	San Gorgonio River at Banning	44.2	1981
10256400	San Gorgonio River near White Water	154	1966-73, 1975-78
10257710	Chino Canyon Creek near Palm Springs	3.88	1975-85
10257800	Long Creek near Desert Hot Springs	19.6	1963-71
10258030	Tahquitz Creek at Palm Springs	--	1983
10258100	Palm Canyon Creek Tributary near Anza	.47	1967-73
10259600	Cottonwood Wash near Cottonwood Spring	.71	1960-72
10259920	Wasteway No. 1 near Mecca	--	1966-81
10260200	Pipes Creek near Yucca Valley	15.1	1958-71
10260400	Cushenbury Creek near Lucerne Valley	6.36	1957-71
10260620	Houston Creek above Lake Gregory, at Crestline	.35	1979-93
10260630	Abondigas Creek above Lake Gregory, at Crestline	1.15	1979-93
10260650	Houston Creek below Lake Gregory, at Crestline	2.68	1979-93
10260820	West Fork Mojave River below Silverwood Lake	34.0	1981-83
10261000	West Fork Mojave River near Hesperia	70.3	1905-22, 1930-71
10261900	Mojave River at Wild Crossing, near Helendale	957	1966-70
10262000	Mojave River near Hodge	1,091	1930-32, 1970-93
10263675	Big Rock Creek Wash at Highway 138, near Llano	53.1	1989-92
10264500	Little Rock Creek near Palmdale	78.0	1968
10264502	Peach Tree Creek near Littlerock	.04	1989-94
10264590	Cottonwood Creek near Rosamond	35.7	1965-72
10264605	Joshua Creek near Mojave	3.83	1989-94
10264710	Goler Gulch near Randsburg	41.3	1966-72
10264740	Cache Creek near Mojave	96.5	1965-72
10264750	Pine Tree Creek near Mojave	33.5	1958-79
10264770	Cottonwood Creek near Cantil	163	1966-72
10264870	Little Lake Creek near Little Lake	8.60	1964-68
10264878	Ninemile Creek near Brown	10.4	1962-71
10265200	Convict Creek near Mammoth Lakes	18.2	1925-78
10265500	Owens River near Round Valley	425	1909-23, 1928-40
10265700	Rock Creek at Little Round Valley, near Bishop	35.8	1925-78
10267000	Pine Creek at Division Box, near Bishop	36.4	1922-79
10268000	Owens River at Pleasant Valley, near Bishop	583	1918-40
10268700	Silver Canyon Creek near Laws	19.7	1930-78
10271210	Bishop Creek below Powerplant No. 6, near Bishop	104	1936-90
10276000	Big Pine Creek near Big Pine	39.0	1921-78
10276002	Giroux Ditch lower below Big Pine	--	1975-78
10276500	Tinemaha Creek near Big Pine	27.3	1907-11
10277000	Birch Creek near Big Pine	11.7	1907-11
10277400	Owens River below Tinemaha Reservoir, near Big Pine	1,964	1975-84
10277500	Owens River near Big Pine	1,976	1912-74
10278000	Taboose Creek near Aberdeen	11.2	1906-11
10278500	Goodale Creek near Aberdeen	11.2	1906-11
10281500	Oak Creek near Independence	24.1	1906-11
10281800	Independence Creek below Pi Canyon Creek, near Independence	18.1	1923-78
10282000	Independence Creek near Independence	18.8	1907-11
10282480	Mazourka Creek near Independence	15.6	1961-72

DISCONTINUED GAGING STATIONS--Continued

Station No.	Station name	Drainage area (mi ²)	Period of record
10284800	Inyo Creek near Lone Pine	1.54	1968-73
10285500	Tuttle Creek near Lone Pine	14.0	1909-11
10285700	Owens River at Keeler Bridge, near Lone Pine	2,604	1961-79
10286000	Cottonwood Creek near Olancha	40.1	1906-11, 1914-18, 1920-38, 1960-78
10286001	Cottonwood Creek Penstock weir, near Lone Pine	--	1906-11, 1914-18, 1919-78
10286002	Cottonwood Creek Diversion to powerhouse	--	1939-50, 1974, 1975-78
10287070	Mill Creek below Lundy Lake, near Mono Lake	18.1	1942-90
10287290	Rush Creek below Agnew Lake, near June Lake	23.3	1960-66, 1986-90
10287400	Rush Creek above Grant Lake, near June Lake	51.3	1937-79
10287900	Lee Vining Creek near Lee Vining	34.9	1935-79
10290000	Summers Creek near Bridgeport	8.26	1954-59
11010900	Wilson Creek Tributary near Dulzura	.61	1968-73
11011900	Potrero Creek Tributary near Barrett Junction	.78	1966-69
11012100	Miller Creek near Live Oak Springs	1.00	1962-64
11013000	Tijuana River near Dulzura	481	1937-90
11013500	Tijuana River near Nestor	1,695	1937-82
11013600	Jamul Creek at Lee Valley, near Jamul	2.26	1984-85, 1987-88
11014850	Japacha Creek near Descanso	2.40	1965-67
11016000	Sweetwater River near Dehesa	112	1913-16
11021500	San Vicente Creek near Foster	66.0	1942
11022000	San Vicente Creek at San Vicente dam, at Foster	74.2	1937-41
11022350	Forester Creek at El Cajon	21.3	1983-93
11023250	Poway Creek near Poway	7.92	1978-87
11023310	Rattlesnake Creek at Poway	8.13	1978-89
11023320	Pomerado Creek at Poway Road, near Poway	4.14	1971-75
11023330	Los Penasquitos Creek below Poway Creek, near Poway	31.2	1970-93
11023325	Beeler Creek at Pomerado Road, near Poway	5.46	1978-89
11023400	Carroll Creek near La Jolla	15.8	1985-86
11023450	Carmel Creek near Del Mar	1.11	1985-86
11023500	Santa Ysabel Creek near Santa Ysabel	12.5	1914
11024500	Black Canyon Creek near Mesa Grande	15.3	1914, 1923-24
11026000	Santa Ysabel Creek near San Pasqual	128	1957-80
11027000	Guejito Creek near San Pasqual	22.5	1947-82
11027500	Guejito Creek at San Pasqual	27.7	1915, 1917, 1947-56
11029000	San Dieguito River near San Pasqual	249	1956-65
11029500	San Dieguito River at Bernardo	269	1912-15
11030500	San Dieguito River near Del Mar	338	1984-89
11031000	San Luis Rey River near Warner Springs	33.6	1913-15
11031500	Agua Caliente Creek near Warner Springs	19.0	1961-87
11033000	West Fork San Luis Rey River near Warner Springs	25.5	1913-15, 1957-86
11035000	San Luis Rey River at Lake Henshaw, near Mesa Grande	206	1912-22
11037650	Pauma Valley Water Company diversion near Pauma Valley	--	1966-70, 1972-81
11037700	Pauma Creek near Pauma Valley	11.0	1965-81
11038500	San Luis Rey River near Pala	317	1909-11, 1913-15
11039100	San Luis Rey River Tributary near Pala	1.01	1966-73
11039600	Bubble-Up Creek near Pala	4.11	1991
11039800	San Luis Rey River at Couser Canyon Bridge, near Pala	364	1986-93
11040000	San Luis Rey River at Monserate Narrows, near Pala	373	1938-41, 1947-86
11040200	Keys Creek Tributary at Valley Center	7.65	1970-83, 1991
11040500	San Luis Rey River at Bonsall	456	1912-15
11040700	San Luis Rey River below Moosa Canyon, near Bonsall	499	1984-85
11041000	San Luis Rey River near Bonsall	513	1930-79
11042490	Wilson Creek above Vail Lake, near Radec	122	1990-94
11042520	Temecula Creek at Nigger Canyon, near Temecula	320	1923-48
11042600	Temecula Creek below Vail Dam	320	1978
11044500	Santa Margarita River near Fallbrook	644	1925-80
11044600	Santa Margarita River Tributary near Fallbrook	.52	1962-65
11045000	Santa Margarita River near De Luz Station	705	1925-26
11046200	San Onofre Creek near San Onofre	34.6	1951-67
11046250	San Onofre Creek at San Onofre	42.2	1947-67, 1989
11046310	San Mateo Creek near San Onofre	91.9	1951-52
11046350	Cristianitos Creek near San Clemente	29.0	1951-67
11046370	San Mateo Creek at San Onofre	132	1947-67, 1984-85
11046500	San Juan Creek near San Juan Capistrano	106	1929-71
11047200	Oso Creek at Crown Valley Parkway, near Mission Viejo	14.0	1970-81
11047300	Arroyo Trabuco at San Juan Capistrano	54.1	1973-77, 1984-89
11047500	Aliso Creek at El Toro	7.92	1931-80
11047700	Aliso Creek at South Laguna	34.4	1983-87
11048000	Irvine Ranch Drainage Canal, near Tustin	92.0	1931-40
11048555	San Diego Creek at Campus Drive, near Irvine	--	1978-79, 1983-85
11051600	Santa Ana River spreading diversion near Mentone	213	1952-77
11054000	Mill Creek near Yucaipa (REVISED RECORDS IN WDR CA-92-1)	42.4	1920-38, 1948-86
11055000	Mill Creek near Mentone	50.5	1939-65
11056000	Santa Ana River near San Bernardino	306	1929-37, 1955-61

DISCONTINUED GAGING STATIONS--Continued

Station No.	Station name	Drainage area (mi ²)	Period of record
11056500	Little San Geronio River near Beaumont (REVISED RECORDS IN WDR CA-92-1)	1.74	1949-85
11057490	San Timoteo Creek at Loma Linda	125	1979-80
11058600	Waterman Canyon Creek near Arrowhead Springs	4.65	1912-14, 1920-85
11059000	Warm Creek Floodway at San Bernardino	75.1	1961-81
11059100	San Bernardino Water-Quality Control Plant at San Bernardino	--	1973-82
11060500	Meeks and Daley Canal near Colton	--	1921-81
11062200	Fontana Union Water Co. Lytle Creek return flow channel near Fontana	--	1973-80
11062810	West San Bernardino County Water District Rialto Diversion near Fontana	--	1981
11063000	Cajon Creek near Keenbrook	40.6	1920-71, 1978-82
11064000	Lytle Creek (East Channel) at San Bernardino	--	1929-57
11065800	Warm Creek near Colton	198	1921-61
11065801	Warm Creek near Colton plus diversion	259	1920-61
11066050	Santa Ana River at Colton	740	1962-66
11066100	Lytle Creek West Channel at Colton	--	1929-45
11066440	Santa Ana River at Mission Boulevard, at Riverside	808	1971-82
11066478	Riverside Water-Quality Control Plant Weir No. 1	--	1973-81
11066479	Riverside Water-Quality Control Plant Weir No. 2	--	1973-81
11066480	Riverside Water-Quality Control Plant at Riverside Narrows, near Arlington	--	1966-81
11066500	Santa Ana River at Riverside Narrows, near Arlington	853	1929-73
11066550	Sheehan Diversion at Riverside Narrows, near Arlington	--	1964-65, 1967-68
11066950	Day Creek Diversion near Etiwanda	--	1966-69, 1971
11067000	Day Creek near Etiwanda	4.56	1929-72
11068000	Santa Ana River at Auburndale Bridge, near Corona	1,010	1961-68
11069300	South Fork San Jacinto River tributary near Valle Vista	2.20	1962-67
11069500	San Jacinto River near San Jacinto	141	1920-91
11070000	Bautista Creek near Hemet	39.6	1948-69
11070050	Bautista Creek at Valle Vista	48.5	1970-87
11070240	Sunnymead Channel at Alessandro Boulevard, near Sunnymead	13.3	1970-75, 1990-93
11070256	Perris Valley Storm Drain at Nandino Avenue, near March Air Force Base	50.6	1970-75, 1990-93
11070262	Perris Valley Storm Drain Lateral "B" near March Air Force Base	10.6	1970-75, 1990-93
11070263	Unnamed creek tributary to Perris Reservoir near Moreno Valley	4.6	1989-91
11070375	San Jacinto River at Railroad Canyon Weir, near Elsinore	562	1952-84
11070465	Salt Creek at Murrieta Road, near Sun City	--	1984
11070475	Salt Creek at Railroad Canyon Reservoir, near Elsinore	122	1970-78
11072000	Temescal Creek near Corona	164	1929-80
11072200	Temescal Creek at Corona	249	1968-74
11073000	San Antonio Creek near Claremont	16.5	1917-72
11073200	San Antonio Creek below San Antonio Dam	26.9	1963-80
11073440	Chino Creek near Chino	107	1968-69
11073470	Cucamonga Creek near Upland	9.68	1929-75
11073500	Chino Creek near Prado	218	1929-40
11074500	Santa Ana River at county line, below Prado Dam	1,510	1919-42, 1945-60
11075620	Santa Ana River spreading diversion below Imperial Highway, near Anaheim	--	1974-86
11075730	Carbon Creek at Olinda	19.7	1931-38
11075740	Carbon Creek near Yorba Linda	20.1	1950-61
11077000	Santiago Creek near Villa Park	84.6	1921-63
11077001	Santiago Creek plus diversion near Villa Park	83.8	1921-31
11078100	Santa Ana River at Adams Avenue, near Costa Mesa	1,701	1975-77
11080000	East Fork San Gabriel River at Camp Bonita	58.2	1928-32
11080500	East Fork San Gabriel River near Camp Bonita	84.6	1933-79
11081000	Bear Creek near Camp Rincon	28.2	1930-36
11081500	North Fork San Gabriel River at Camp Rincon	18.6	1930-36
11082000	West Fork San Gabriel River at Camp Rincon	104	1928-78
11083500	San Gabriel River near Azusa	214	1894, 1896-1959, 1961-66
11084000	Rogers Creek near Azusa	6.64	1918-62
11084500	Fish Creek near Duarte	6.36	1916-79
11085019	San Gabriel River below Valley Boulevard	--	1973-74
11086000	Dalton Creek near Glendora	7.24	1913-62
11086300	San Dimas Creek below San Dimas Dam	16.3	1957-78
11086400	San Dimas Creek near San Dimas	18.3	1917-56
11086500	Little Dalton Creek near Glendora	2.72	1939-68, 1970-71
11086990	San Jose Creek near El Monte	87.8	1965-78
11087100	Rio Hondo Flood Flow Channel at Whittier Narrows Dam	--	1966-70
11087195	San Jose Creek near Whittier	88.7	1929-64
11087500	San Gabriel River at Pico	447	1929-78
11088000	San Gabriel River at Spring Street, near Los Alamitos	472	1937-51, 1953-79
11089000	Brea Creek at Fullerton	23.6	1931-69
11090000	Fullerton Creek at Fullerton	7.50	1936-64
11090200	Fullerton Creek at Richman Avenue, at Fullerton	12.1	1960-77, 1979-81
11090500	Coyote Creek near Artesia	120	1930-63
11090700	Coyote Creek at Los Alamitos	150	1964-78
11092450	Los Angeles River at Sepulveda Dam	158	1932-79
11093000	Pacoima Creek near San Fernando	28.3	1917-79
11093490	North Fork Mill Creek near La Canada	5.80	1966-73
11093500	Mill Creek near Colby Ranch	21.7	1931-34

DISCONTINUED GAGING STATIONS--Continued

Station No.	Station name	Drainage area (mi ²)	Period of record
11094000	Big Tujunga Creek below Mill Creek, near Colby Ranch (formerly Tujunga Creek)	64.9	1948-71
11094500	Big Tujunga Creek near Colby Ranch (formerly Tujunga Creek)	67.5	1931-50
11095000	Fox Creek near Colby Ranch	9.22	1931-37
11095500	Big Tujunga Creek near Sunland (formerly Tujunga Creek)	106	1917-77
11096000	Haines Creek near Tujunga	1.26	1917-34, 1936-61
11096500	Little Tujunga Creek near San Fernando	21.1	1929-73
11097500	Los Angeles River at Los Angeles	514	1930-79
11098500	Los Angeles River near Downey	599	1928-78
11099500	Sawpit Creek near Monrovia	5.21	1916-61
11100000	Santa Anita Creek near Sierra Madre (REVISED RECORDS IN WDR CA-92-1)	9.71	1917-70
11100500	Little Santa Anita Creek near Sierra Madre	1.84	1916-62
11101000	Eaton Creek near Pasadena	6.47	1918-66
11101380	Alhambra Wash at Klingerman Street, near Montebello	15.2	1976-79
11101500	Rio Hondo near Montebello	116	1929-78
11102000	Mission Creek near Montebello	4.16	1930-77
11102500	Rio Hondo near Downey	143	1928-79
11103500	Ballona Creek near Culver City	89.5	1928-78
11106000	Calleguas Creek at Camarillo	168	1929-31, 1955-58
11106400	Conejo Creek above Highway 101, near Camarillo	64	1973-83
11106500	Conejo Creek near Camarillo	69	1928-31
11107000	Honda Barranca near Somis	2.5	1955-63
11107500	Beardsley Wash near Somis	13	1954-58
11107745	Santa Clara River above railroad station, near Lang	157	1950-68, 1970-77
11107860	Bouquet Creek near Saugus	51.6	1971-73, 1975,
11107922	South Fork Santa Clara River at Saugus	43.4	1976-77
11108000	Santa Clara River near Saugus	411	1930-55
11108075	Castaic Creek above Fish Creek, near Castaic	37.0	1977-78, 1989-93
11108080	Fish Creek above Castaic Creek, near Castaic	27.2	1977-78, 1989-93
11108090	Elderberry Canyon Creek above Castaic Creek, near Castaic	2.50	1978, 1989-93
11108095	Necktie Canyon Creek above Castaic Creek, near Castaic	2.12	1977-78, 1989-93
11108130	Elizabeth Lake Canyon Creek above Castaic Lake, near Castaic	43.7	1977-78, 1989-93
11108135	Castaic Lagoon Parshall Flume near Castaic	138	1977-78, 1988-94
11108145	Castaic Creek near Saugus	184	1947-76
11109000	Santa Clara River near Piru	645	1928-32
11109100	Piru Creek below Thorn Meadows, near Stauffer	22.5	1972-78
11109200	Middle Fork Lockwood Creek near Stauffer	5.50	1972-78
11109250	Lockwood Creek at gorge, near Stauffer	58.7	1972-81
11110000	Piru Creek near Piru	437	1912-13, 1928-56, 1969-74
11112500	Fillmore Irrigation Company Canal near Fillmore	--	1940-51, 1972-83
11113001	Sespe Creek and Fillmore Irrigation Company Canal	--	1927-85, 1990-93
11113900	Saticoy Diversion near Saticoy	--	1969-81, 1983-87
11114000	Santa Clara River at Montalvo	1,594	1928-32, 1950-88, 1990-94
11114500	Matilija Creek above reservoir, near Matilija Hot Springs	50.7	1948-69
11115500	Matilija Creek at Matilija Hot Springs	54.6	1928-88
11116000	North Fork Matilija Creek at Matilija Hot Springs	15.6	1929-32, 1934-73, 1974-83
11116550	Ventura River near Meiners Oaks	76.4	1959-79, 1981-82, 1984-88
11117000	San Antonio Creek near Ojai	33.7	1928-32
11117600	Coyote Creek near Oak View	13.2	1959-88
11117800	Santa Ana Creek near Oak View	9.11	1959-88
11118000	Coyote Creek near Ventura	41.2	1928-32, 1934-58, 1970-82
11119660	San Ysidro Creek at Montecito	3.07	1980-83
11119700	Sycamore Creek at Santa Barbara	3.41	1971-72, 1980
11119760	Victoria Street drain at outlet, at Santa Barbara	0.625	1970-78
11119780	Arroyo Burro at Santa Barbara	6.65	1970-93
11119900	Atascadero Creek at Puente Road, near Goleta	3.86	1971-72
11120510	San Jose Creek at Goleta	9.42	1970-92
11120520	San Pedro Creek at Goleta	3.21	1971-72
11120530	Tecolotito Creek near Goleta	4.42	1970-72, 1980-82, 1987-91
11120550	Gaviota Creek near Gaviota	18.8	1967-86
11120600	Jalama Creek near Lompoc	20.5	1966-82
11120700	Canada Honda Creek near Lompoc	3.09	1959-62
11120800	Canada Honda Creek near Point Arguello	8.47	1959-62
11124000	Santa Cruz Creek above Stuke Canyon	64.9	1947-52
11125000	Cachuma Creek near Santa Ynez	23.8	1951-62
11126500	Santa Agueda Creek near Santa Ynez	55.8	1941-71, 1977-78
11127000	San Lucas Creek near Santa Ynez	3.2	1953-54
11127500	Zanja de Cota Creek near Santa Ynez	13.8	1955-61
11128000	Santa Ynez River at Grand Avenue, near Santa Ynez	513	1955-65
11128400	Alisal Creek near Solvang	12.3	1955, 1957-72
11129000	Nojoqui Creek near Buellton	15.1	1953-54

DISCONTINUED GAGING STATIONS--Continued

Station No.	Station name	Drainage area (mi ²)	Period of record
11129500	Santa Ynez River at Buellton	611	1955-59
11130000	Zaca Creek at Buellton	39.4	1941-63
11130500	Santa Ynez River near Buellton	668	1952-74
11131000	Santa Ynez River at Santa Rosa Dam site, near Buellton	700	1955-64
11131500	Santa Ynez River at Coopers East Fork, near Lompoc	708	1955-76
11132000	Santa Ynez River below Santa Rita Creek, near Lompoc	733	1955-62
11134000	Santa Ynez River at H Street, near Lompoc	815	1947-62
11134500	Santa Ynez River at 13th Street, near Lompoc	820	1955-75
11135000	Santa Ynez River at Pine Canyon, near Lompoc	884	1941-46, 1964-83
11135500	Santa Ynez River at barrier, near Surf	895	1947-65
11135800	San Antonio Creek at Los Alamos	34.9	1970-92
11136000	San Antonio Creek at Harris	93.7	1941-55
11136050	San Antonio Creek above Barka slough, near Orcutt	114	1985-87
11136150	San Antonio Creek Tributary near Casmalia	.28	1947-70
11136400	Wagon Road Creek near Stauffer	17.9	1972-78
11136480	Reyes Creek near Ventucopa	4.62	1972-78
11136500	Cuyama River near Ventucopa	89.9	1945-58
11136650	Aliso Canyon Creek near New Cuyama	16.1	1964-72
11137000	Cuyama River near Santa Maria	904	1930-62
11137400	Alamo Creek near Nipomo	83.3	1959-77
11137500	Alamo Creek near Santa Maria	86.6	1944-82
11137900	Huasna River near Arroyo Grande	10.3	1959-86
11138000	Huasna River near Santa Maria	117	1930-62
11138100	Cuyama River below Twitchell Dam	1,132	1959-83
11139000	La Brea Creek near Sisquoc	93.6	1944-73
11139350	Foxen Creek near Sisquoc	16.8	1966-73
11139500	Tepusquet Creek near Sisquoc	28.7	1944-87
11140600	Bradley Ditch near Donovan Road, at Santa Maria	5.47	1970-92
11140800	Blosser Ditch near Donovan Road, at Santa Maria	--	1972-76
11141000	Santa Maria River at Guadalupe	1,741	1940-87
11160020	San Lorenzo River near Boulder Creek	6.17	1968-92

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
10260640	Lake Gregory at Crestline	2.66	1978-93
10287000	Mono Lake near Mono Lake	785	1912-90
11013200	Rodriguez Reservoir at Rodriguez Dam, Baja California, Mexico	977	1937-90
11014550	Lower Otay Lake near Chula Vista	99.0	1945-59, 1972-93
11020600	El Capitan Lake near Lakeside	188	1936-66, 1972-93
11030020	Lake Hodges near Escondido	303	1945-68, 1972-93
11030700	Lake Wohlford near Escondido	7.96	1972-93
11011000	Barrett Lake near Dulzura	245	1960-66, 1986-93
11117900	Lake Casitas near Casitas Springs	38.6	1986-87

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
10254670	Alamo River at Drop No. 3, near Calipatria	--	B,T,S, WQ,C	1969-70, 1975-77, 1979-94
10254970	New River at International Boundary, at Calexico	--	C,B,T,S	1969-71, 1973-85
10256000	Whitewater River at White Water	57.5	S	1972
10261500	Mojave River at Lower Narrows, near Victorville	513	C,T	1962-81
10263675	Big Rock Creek Wash at Highway 138, near Llano	53.1	P	1989-92
10264502	Peach Tree Creek near Littlerock	.04	P	1989-94
10264605	Joshua Creek near Mojave	3.83	P	1989-94
10265150	Hot Creek at flume near Mammoth	68.3	C,T	1983-88
10277400	Owens River below Tinemaha Reservoir, near Big Pine	1,964	C,T	1975-81
11013500	Tijuana River near Nestor	1,695	T,S	1970-71, 1976, 1978
11022500	San Diego River near Santee	377	T,S	1970-78

DISCONTINUED WATER-QUALITY STATIONS--Continued

Station No.	Station name	Drainage area (mi ²)	Type of record	Period of record
11023000	San Diego River at Fashion Valley, at San Diego	429	S	1984
11030500	San Dieguito River near Del Mar	338	S	1984
11042000	San Luis Rey River at Oceanside	557	WQ,S,B, C,T	1969-93
11046000	Santa Margarita River at Ysidora	723	S	1969-71, 1973-74, 1978
11046250	San Onofre Creek at San Onofre	42.2	S	1982-83, 1988-89
11046370	San Mateo Creek at San Onofre	132	S	1984
11046500	San Juan Creek near San Juan Capistrano	106	T,S	1967-68, 1971, 1982
11046530	San Juan Creek at La Novia Street Bridge, at San Juan Capistrano	109	S,T	1986-93
11046550	San Juan Creek at San Juan Capistrano	117	T,S	1972-82, 1987
11047000	Arroyo Trabuco near San Juan Capistrano	35.7	T,S	1967, 1978
11047300	Arroyo Trabuco at San Juan Capistrano	54.1	S	1971-77, 1984-93
11048500	San Diego Creek at Culver Drive, near Irvine	41.8	T,S	1972-85
11048530	El Modena Irvine Channel near Irvine	--	T,S	1975-79
11048540	Peters Canyon Wash at Barranca Road, near Irvine	--	T,S	1975-79, 1983-85
11048550	San Diego Creek at Lane Road, near Irvine	--	T,S	1972-76
11048555	San Diego Creek at Campus Drive, near Irvine	--	T,S	1972-76, 1978-79, 1983-85
11051500	Santa Ana River near Mentone	210	T,S	1982-89
11056200	Santa Ana River at Waterman Avenue, at San Bernardino	339	T,S	1977, 1979
11057000	San Timoteo Creek near Redlands	118	T,S	1977-78
11057500	San Timoteo Creek near Loma Linda	125	T,S	1979-81, 1992-94
11059100	San Bernardino Water-Quality Control Plant at San Bernardino	--	C	1973-75, 1977-80
11059300	Santa Ana River at E Street, near San Bernardino	541	T	1982-83
11066460	Santa Ana River at MWD crossing, near Arlington	852	C	1970-78
11066480	Riverside Water-Quality Control Plant at Riverside Narrows, near Arlington	--	C	1970-80, 1982
11066500	Santa Ana River at Riverside Narrows, near Arlington	853	C,T	1968-69
11067890	Santa Ana River at Prado Park, near Corona	1,010	T,S	1976-80
11068000	Santa Ana River at Auburndale Bridge, near Corona	1,010	C,T	1968
11070240	Sunnymead Channel at Alessandro Boulevard near Sunnymead	13.3	P	1990-93
11070262	Perris Valley Storm Drain Lateral "B" near March Air Force Base	10.6	P	1991
11070263	Unnamed creek tributary to Perris Reservoir near Moreno	.46	P	1990-91
11074000	Santa Ana River below Prado Dam	1,490	B,S	1974-94
11075600	Santa Ana River at Imperial Highway, near Anaheim	1,544	T,S	1973-77, 1979
11075620	Santa Ana River spreading diversion below Imperial Highway, near Anaheim	--	C,T	1974-85
11075755	Santa Ana River at Ball Road, at Anaheim	1,587	T,S	1977-80
11075760	Santa Ana River near Katella Avenue, at Orange	1,593	T,S	1974-76
11078000	Santa Ana River at Santa Ana	1,700	T	1968-69, 1971, 1973-80, 1982-87
11078100	Santa Ana River at Adams Avenue, near Costa Mesa	1,701	T,S	1974-76
11102250	Mission Creek below Whittier Narrows Dam	--	C	1956-70
11103000	Los Angeles River at Long Beach	827	WQ,S, T,C	1973-92
11103010	Los Angeles River at Willow Street Bridge, at Long Beach	831	C,T	1974-75, 1981
11104000	Topanga Creek at Topanga Beach	18.0	WQ,S	1982-88
11104400	Malibu Creek at Cornell	37.6	WQ,S	1983-88
11105410	Cold Creek at Piuma Road, near Monte Nido	7.73	WQ,S	1982-84, 1986, 1987, 1988
11105500	Malibu Creek at Crater Camp, near Calabasas	105	WQ,S	1982-88
11105850	Arroyo Simi near Simi	70.6	T,S	1970-71, 1974-78
11106550	Calleguas Creek at Camarillo State Hospital	248	T,S	1970-78
11108500	Santa Clara River at Los Angeles-Ventura County Line	625	WQ,B,S, T	1969-88
11109550	Piru Creek above Frenchmans Flat	308	C	1972-80
11109600	Piru Creek above Lake Piru	372	C	1972-80
11109800	Piru Creek below Santa Felicia Dam	425	C,T	1969, 1974-80
11110000	Piru Creek near Piru	437	C,T	1970-71
11110500	Hopper Creek near Piru	23.6	T,S	1977-78
11113000	Sespe Creek near Fillmore	251	C,S	1967-78
11113500	Santa Paula Creek near Santa Paula	38.4	C,T	1969-80
11113900	Saticoy Diversion near Saticoy	--	C,T	1969-71, 1982-87
11113910	Santa Clara River at diversion, near Saticoy	--	C	1971
11114000	Santa Clara River at Montalvo	1,612	S,T	1968-85, 1988-93
11117500	San Antonio Creek at Casitas Springs	51.2	T,S	1977-78
11118500	Ventura River near Ventura	188	WQ,T	1907-08, 1967-81, 1986
11120000	Atascadero Creek near Goleta	18.9	S	1982
11120510	San Jose Creek at Goleta	9.42	S	1982-85
11120530	Tecolotito Creek near Goleta	4.42	S	1982
11120600	Jalama Creek near Lompoc	20.5	T	1981-83
11120900	Canada Honda Creek at Pt. Arguello	--	T	1981-83
11141000	Santa Maria River at Guadalupe	1,741	T,S	1969-70

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

WATER RESOURCES DATA--CALIFORNIA, WATER YEAR 1995
VOLUME 1--SOUTHERN GREAT BASIN FROM MEXICAN BORDER TO MONO LAKE BASIN,
AND PACIFIC SLOPE BASINS FROM TIJUANA RIVER TO SANTA MARIA RIVER

By J. Agajanian, G.L. Rockwell, and P.D. Hayes

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 141 streamflow-gaging stations, 6 crest-stage partial-record streamflow stations; (2) stage and contents records for 20 lakes and reservoirs; (3) water-quality records for 21 streamflow-gaging stations and 3 partial-record stations; and (4) precipitation records for 1 station. 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-95-1." 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:

Antelope Valley-East Kern Water Agency, Wallace G. Spinarski, General Manager.
Borrego Water District, Linden Burzell, General Manager.
California Department of Water Resources, David N. Kennedy, Director.
Carpinteria County Water District, Charles Hamilton, General Manager/Secretary.
Casitas Municipal Water District, John Johnson, General Manager.
Coachella Valley Water District, Thomas E. Levy, General Manager-Chief Engineer.

Desert Water Agency, Jack H. Oberle, General Manager.
 Imperial County Department of Public Works, S. Harry Orfanos, Director.
 Imperial Irrigation District, Michael J. Clinton, General Manager.
 Irvine Ranch Water District, Ronald E. Young, General Manager.
 Mojave Water Agency, Larry Rowe, General Manager.
 Mono County, Energy Management Department, Daniel Lyster, Director.
 Montecito Water District, C. Charles Evans, General Manager-Chief Engineer.
 Orange County Water District, William R. Mills, Jr., General Manager.
 Padre Dam Municipal Water District, August Caires, General Manager.
 Pechanga Indian Reservation, Jennie Miranda, Spokeswoman.
 Riverside County Flood Control and Water Conservation District, Kenneth L. Edwards, Chief Engineer.
 San Bernardino Valley Municipal Water District, G. Louis Fletcher, General Manager.
 San Bernardino Environmental Public Works Agency-Flood Control District, Ken Miller, Director.
 San Diego, City of, Milon Mills, Jr., Water Utilities Director.
 San Diego County Department of Public Works, Tom Garibay, Director.
 San Juan Basin Authority, William P. Becker, General Manager.
 Santa Barbara, City of, Department of Public Works, David H. Johnson, Director.
 Santa Barbara County Flood Control and Water Conservation District and Water Agency, Thomas D. Fayram, Deputy Director.
 Santa Margarita River Watershed, James S. Jenks, Watermaster.
 Santa Maria Valley Water Conservation District, Maurice F. Twitchell, Secretary.
 Santa Ynez River Water Conservation District, Bruce A. Wales, General Manager.
 Sweetwater Authority, Richard A. Reynolds, General Manager.
 United Water Conservation District, Frederick J. Gientke, General Manager.
 Ventura County Public Works Agency, Arthur Goulet, Director.

Assistance in the form of funds or services was given by the Corps of Engineers, U.S. Army; Bureau of Reclamation, U.S. Department of the Interior; Camp Pendleton Marine Corps Base, U.S. Marine Corps; and Southwest Division, Naval Facilities Engineering Command, Department of the Navy.

The following organizations aided in collecting records: California Department of Water Resources, Southern California Edison Co., and United Water Conservation District.

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 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 or trends with time in the pattern of occurrence of water-quality characteristics; and (4) to provide a nationally consistent database 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.

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).

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-quality 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 a 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 11078000, which appears just to the left of the station name, includes the two-digit part number "11" plus the six-digit downstream-order number "078000." 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.

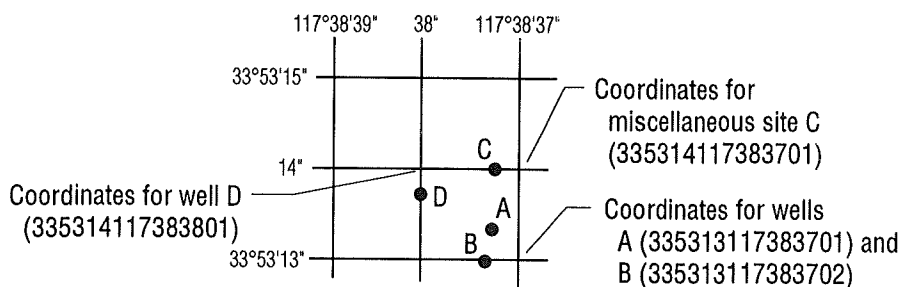


Figure 1. System for numbering miscellaneous sites (latitude and longitude).

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 crest-stage partial-record stations for which data are given in this report are shown, by county, in figures 2 through 12.

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.

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 uniformly distributed on it.

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 are generally 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 $1 \text{ ft}^3/\text{s}$, to the nearest tenth between 1.0 and $10 \text{ ft}^3/\text{s}$, to whole numbers between 10 and $1,000 \text{ ft}^3/\text{s}$, and to three significant figures for more than $1,000 \text{ ft}^3/\text{s}$. 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 12.

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 ($\mu\text{g/L}$) 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 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 the suspended sediment and bed material are included for some stations.

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/m³) and periphyton and benthic organisms in grams per square meter (g/m²).

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 (μm³) 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 combinations of simple solids (that is, spheres, cones, or cylinders). Representative formulae used to compute biovolume are as follows:

$$\text{sphere } 4/3 \pi r^3 \quad \text{cone } 1/3 \pi r^2 h \quad \text{cylinder } \pi r^2 h.$$

From cell volume, total algal biomass expressed as biovolume (πm³/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 (ft³/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

$$I = I_0 e^{-\lambda L},$$

where I_0 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

$$\lambda = -\frac{1}{L} \log_e \frac{I}{I_0}.$$

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, $\mu\text{g/g}$) 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, $\mu\text{g/L}$) 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.

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.

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.

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:

<u>Classification</u>	<u>Size (mm)</u>	<u>Method of analysis</u>
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^{10} 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 [$\text{mg C}/(\text{m}^2/\text{time})$ for periphyton and macrophytes and $\text{mg C}/(\text{m}^3/\text{time})$ 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 [$\text{mg O}_2/(\text{m}^2/\text{time})$ for periphyton and macrophytes and $\text{mg O}_2/(\text{m}^3/\text{time})$ 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 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 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 (0.076 m) 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 emerged 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.....	<u>Hexagenia</u>
Species.....	<u>Hexagenia limbata</u>

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 sample is 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

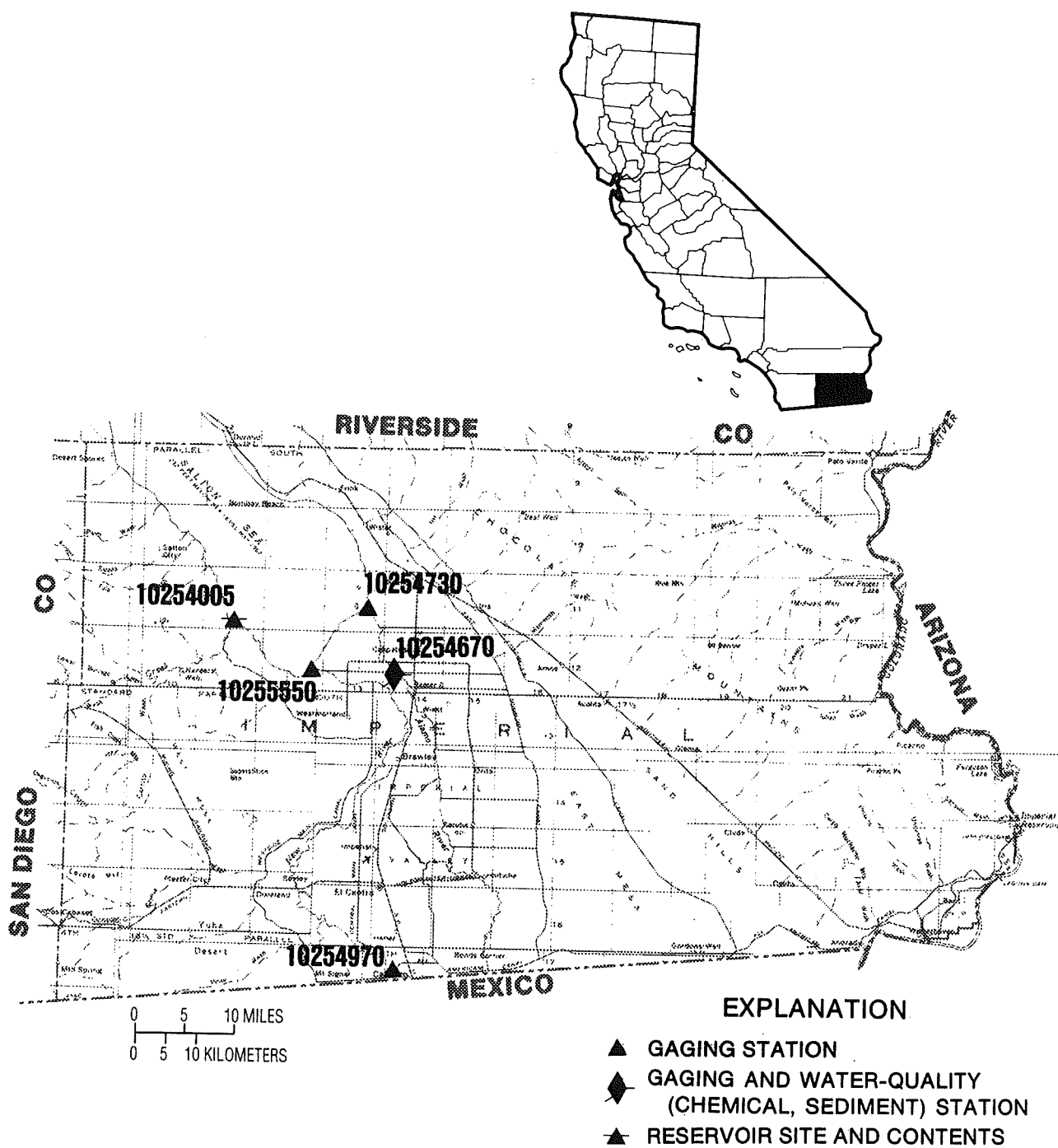
The U.S. Geological Survey publishes a series of manuals describing procedures for planning and conducting specialized work in water-resources investigations. The material is grouped under major subject headings called books and is further divided into sections and chapters. For example, Section A of 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. 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.
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- 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.
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- 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.
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- 3-A20. Simulation of soluble waste transport and buildup in surface waters using tracers, by F.A. Kilpatrick: USGS--TWRI Book 3, Chapter A20. 1993. 38 pages.
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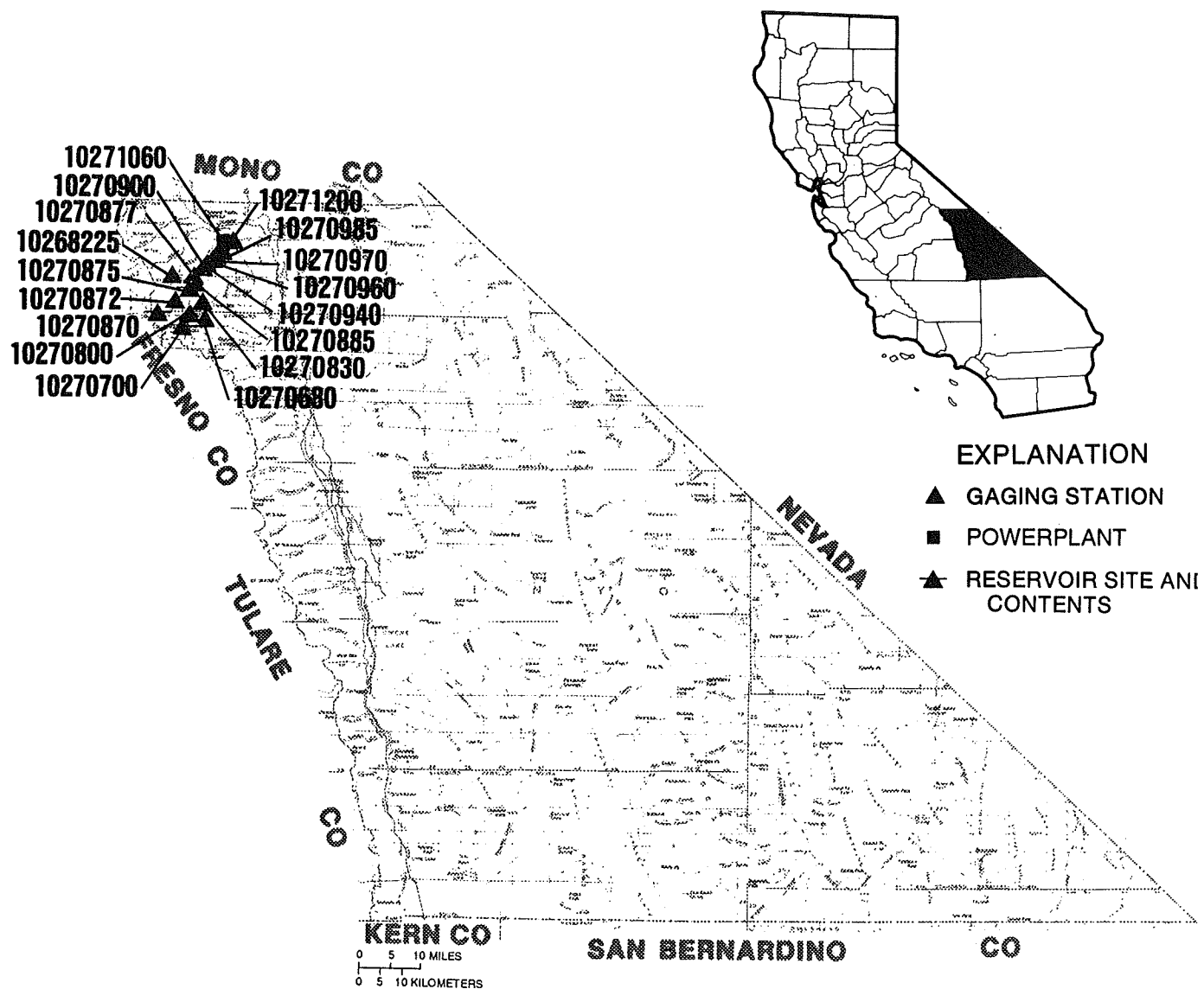


Figure 3. Location of discharge stations in Inyo County.

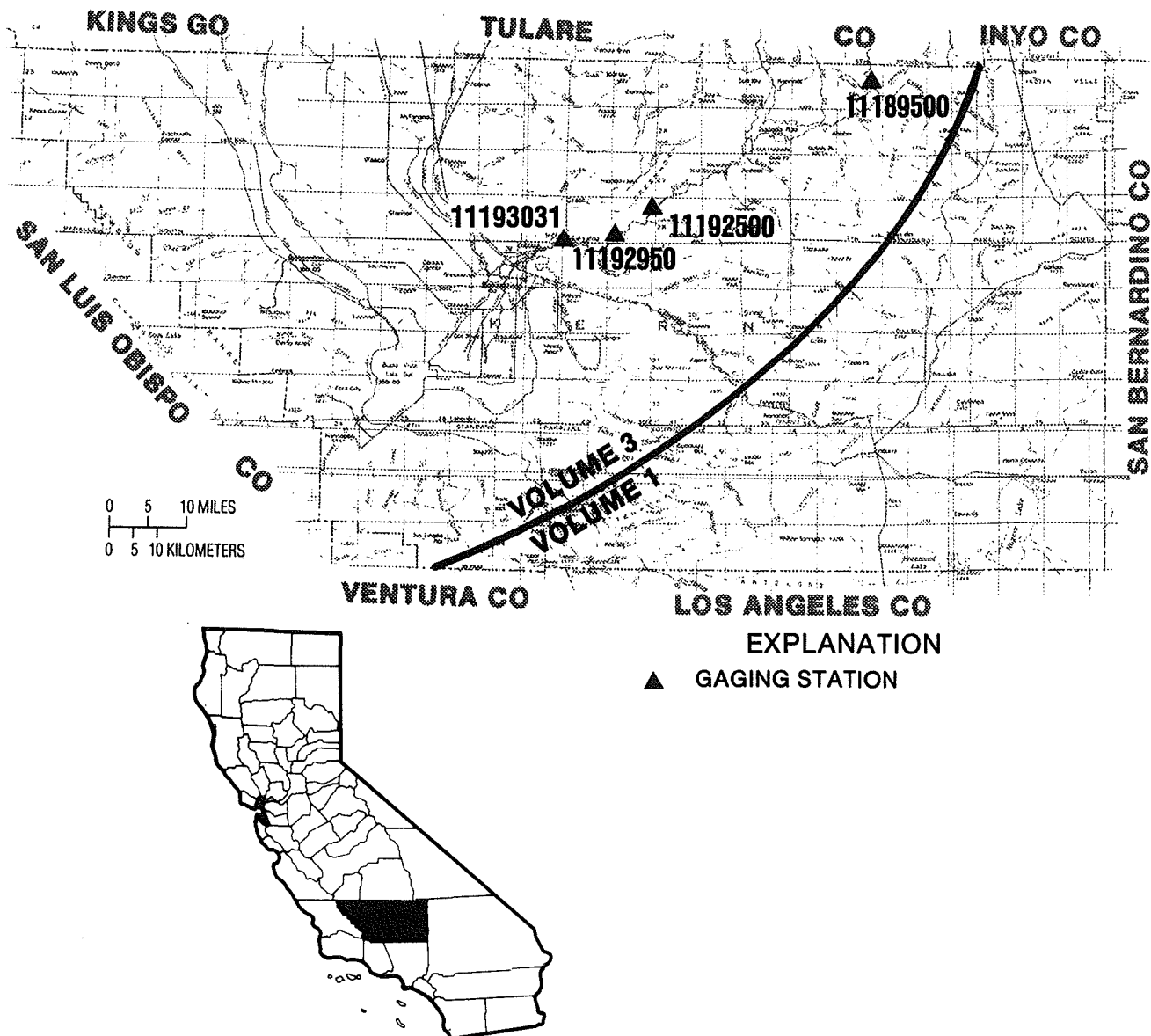


Figure 4. Location of discharge stations in Kern County.
 (NOTE: Records for stations 11189500 through 11193031 published in volume 3.)

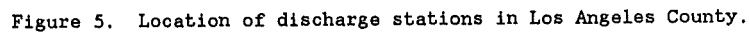


Figure 5. Location of discharge stations in Los Angeles County.

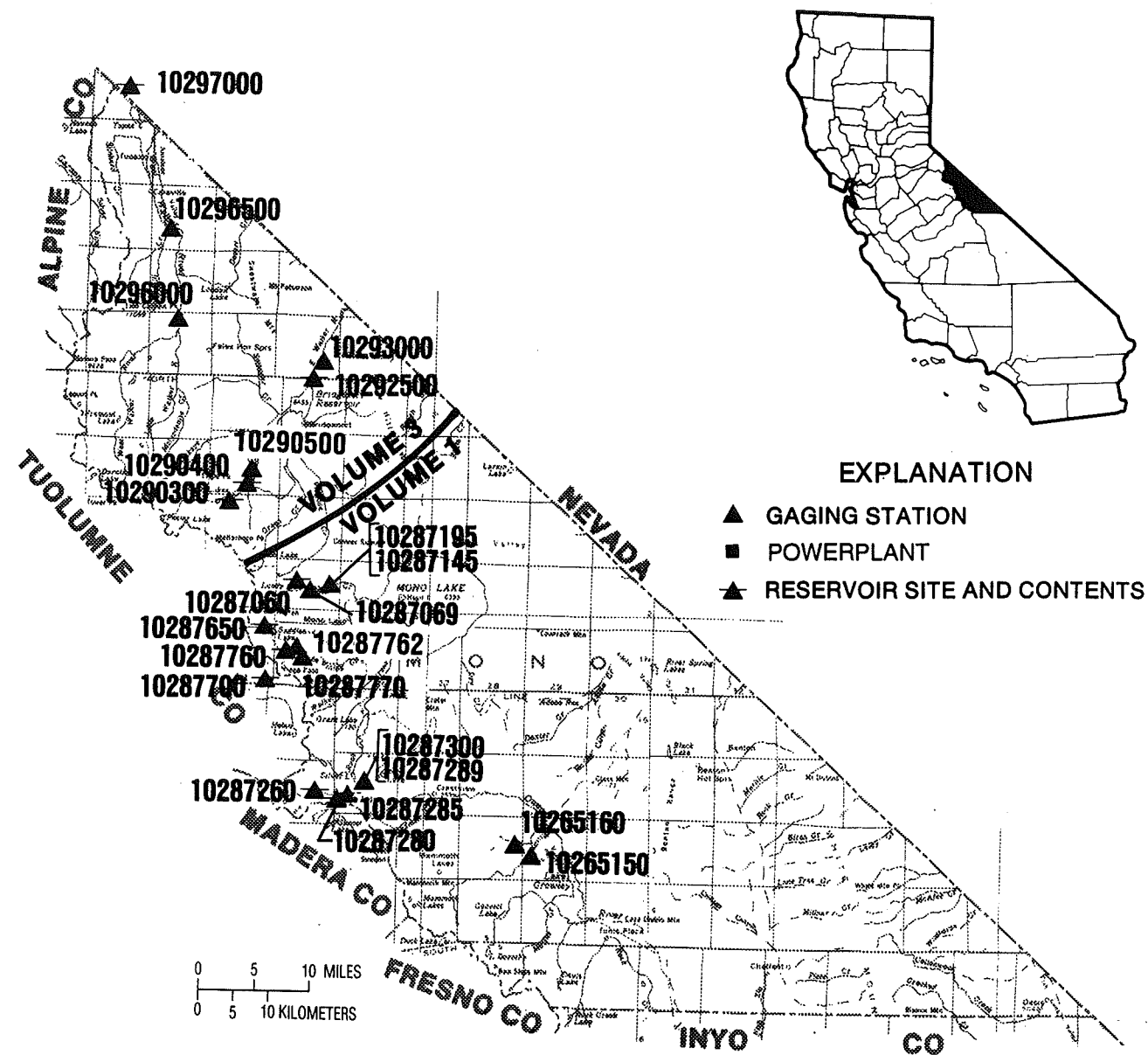


Figure 6. Location of discharge stations in Mono County.
(NOTE: Records for stations 10290300 through 10297000
published in volume 3.)

EXPLANATION



GAGING STATION

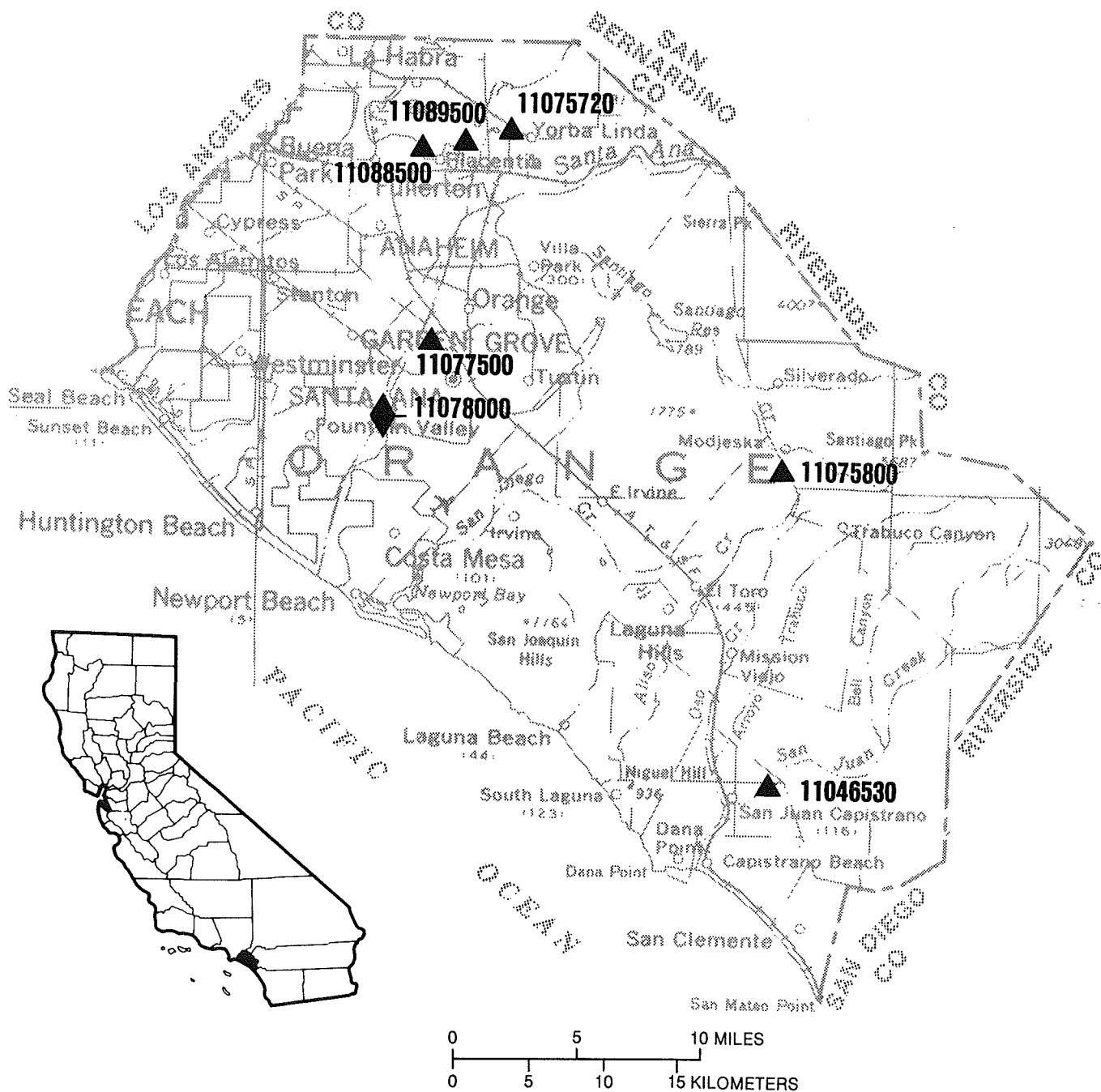
GAGING AND WATER-QUALITY (SEDIMENT)
STATION

Figure 7. Location of discharge and water-quality stations in Orange County.

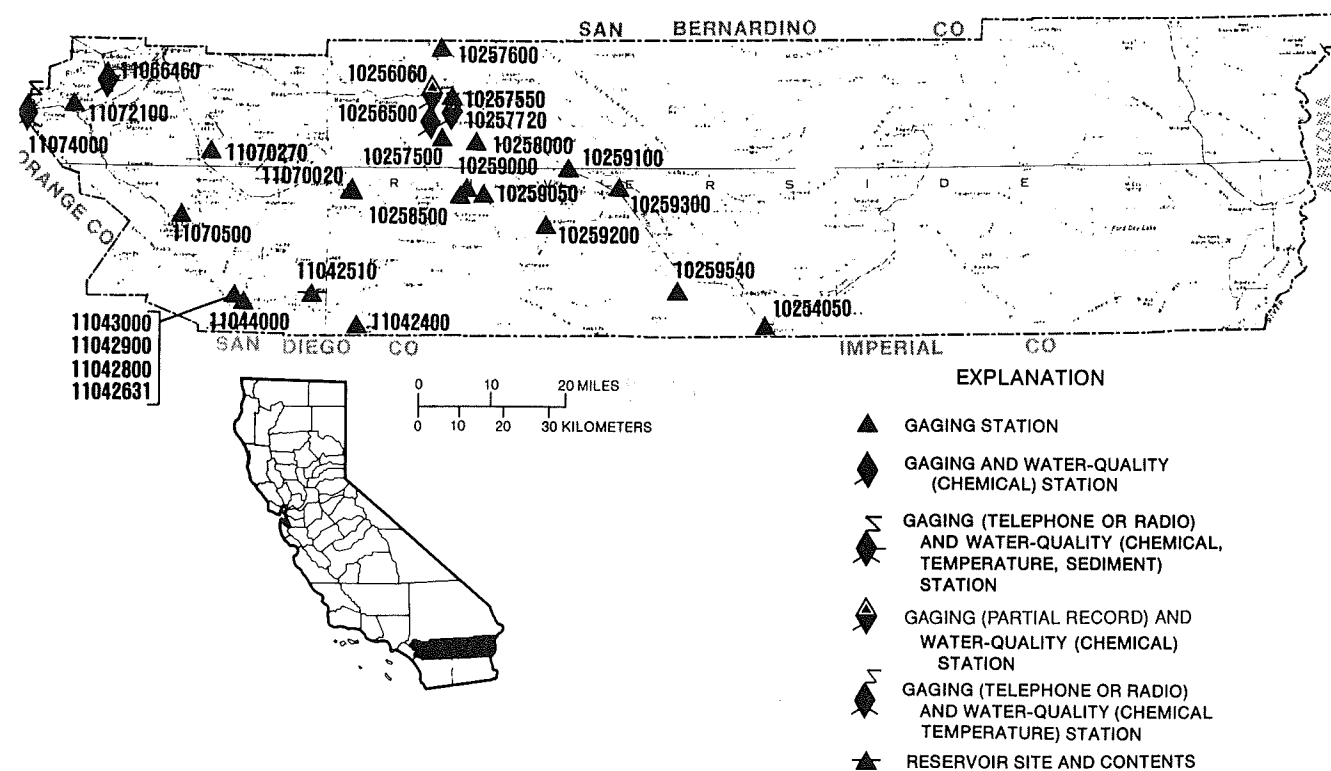


Figure 8. Location of discharge and water-quality stations in Riverside County.

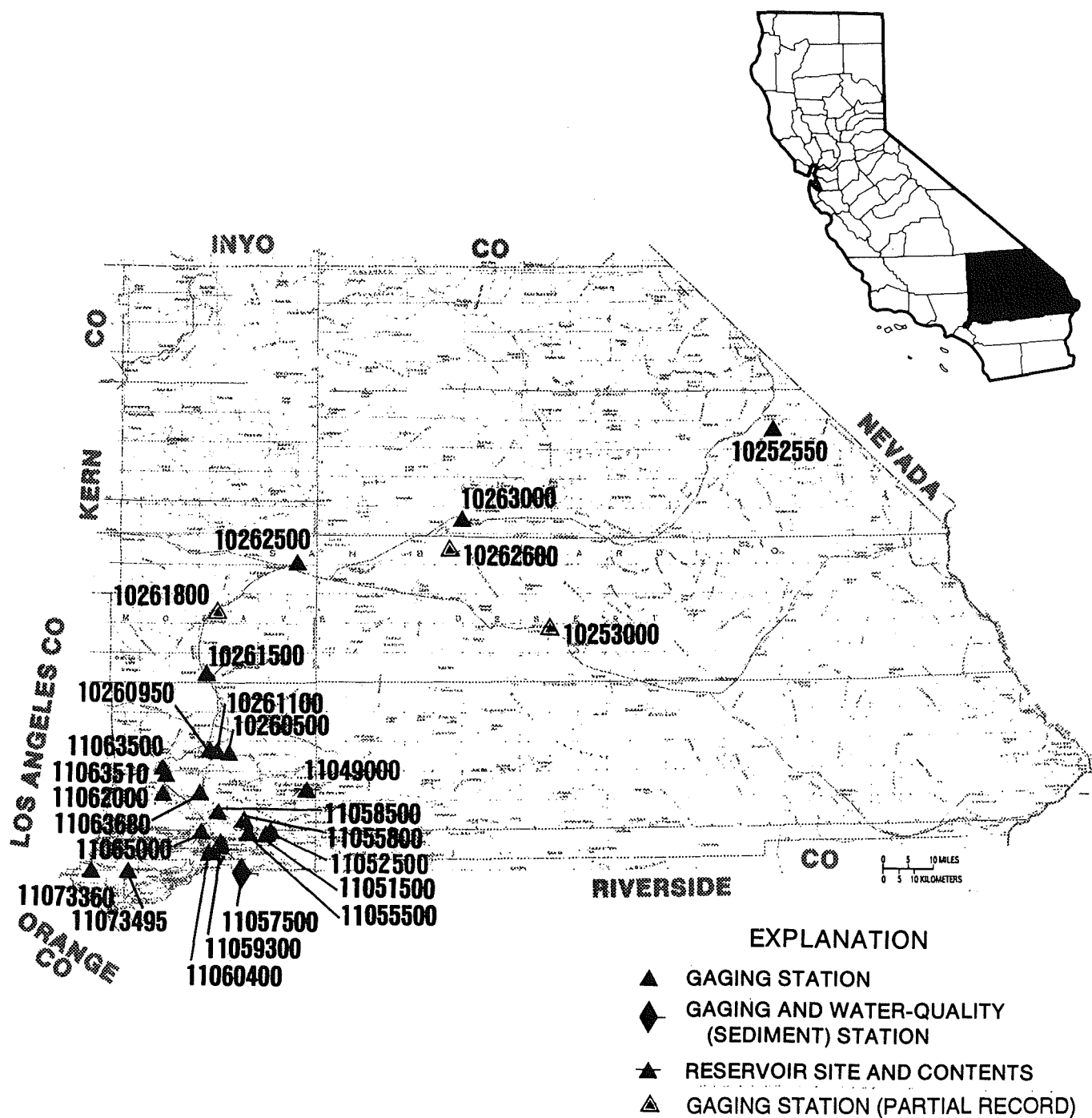


Figure 9. Location of discharge and water-quality stations in San Bernardino County.

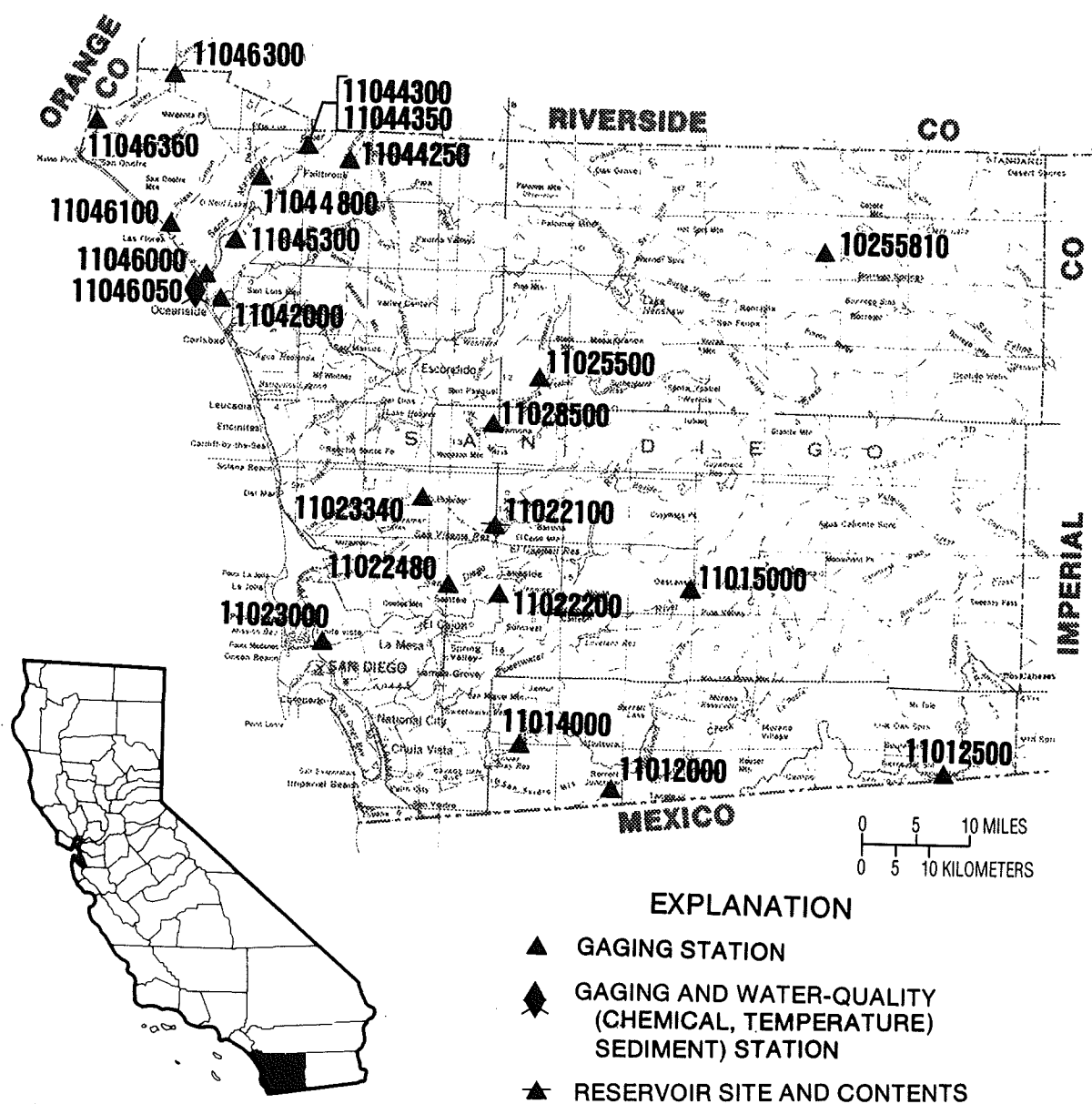


Figure 10. Location of discharge and water-quality stations in San Diego County.

EXPLANATION

- ▲ GAGING STATION
- ◆ GAGING AND WATER-QUALITY (CHEMICAL) STATION
- ◆ GAGING AND WATER-QUALITY (CHEMICAL, TEMPERATURE) STATION
- ▼ WATER-QUALITY (CHEMICAL) STATION
- ★ RESERVOIR SITE AND CONTENTS

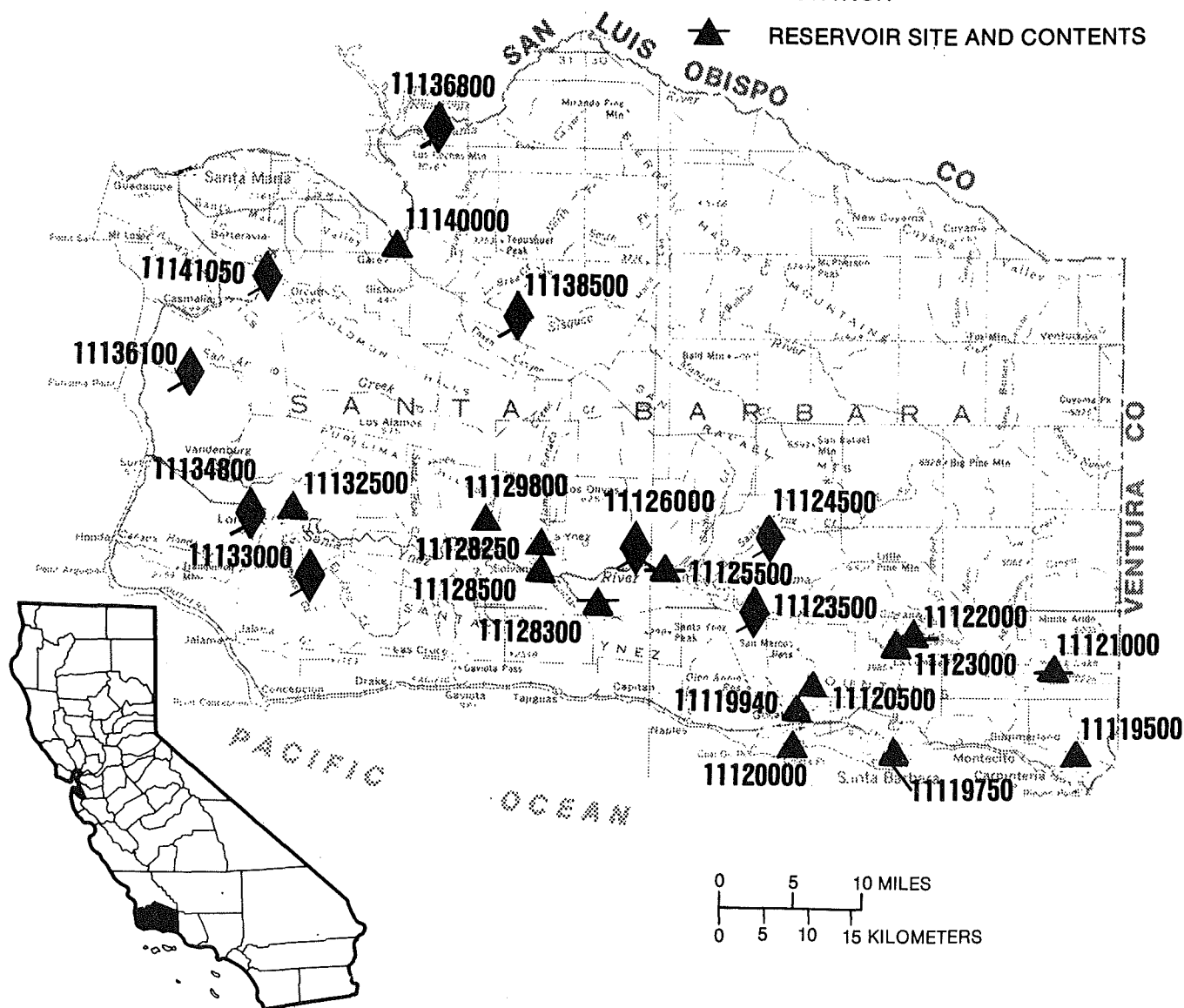


Figure 11. Location of discharge and water-quality stations in Santa Barbara County.

EXPLANATION



GAGING STATION

GAGING AND WATER-QUALITY
(SEDIMENT) STATION

RESERVOIR SITE AND CONTENTS

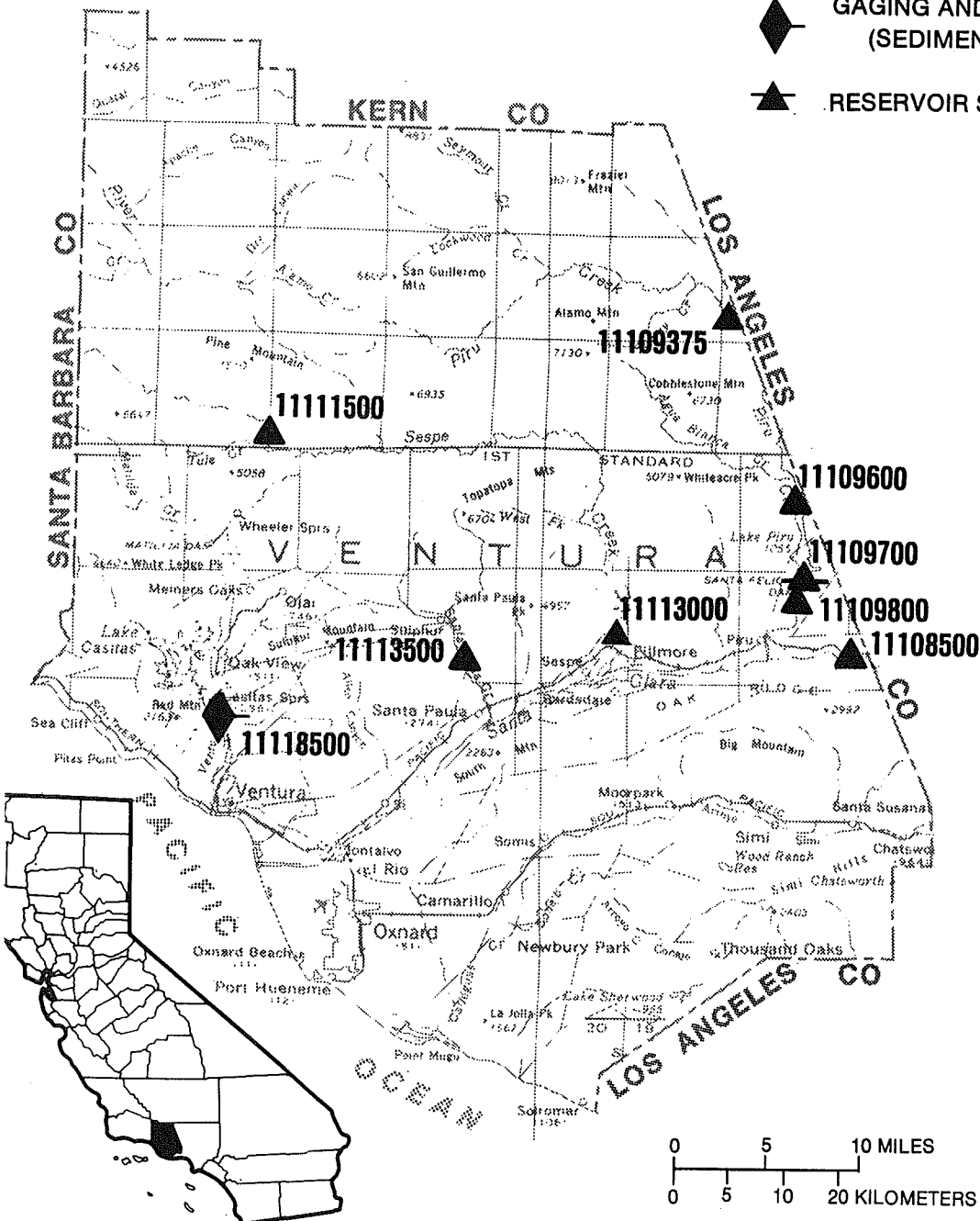


Figure 12. Location of discharge and water-quality stations in Ventura County.

GAGING STATION AND WATER-QUALITY RECORDS

Remark Codes

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

PRINTED OUTPUTREMARK

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
1	Laboratory value

Dissolved Trace-Element Concentrations

OTE: Traditionally, dissolved trace-element concentrations have been reported at the microgram per liter ($\mu\text{g/L}$) 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 $\mu\text{g/L}$ 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

OTE: 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).

BRISTOL LAKE BASIN

10252550 CARUTHERS CREEK NEAR IVANPAH, CA

LOCATION.--Lat 35°14'33", Long 115°17'58", in NW 1/4 NE 1/4 sec.6, T.13 N., R.16 E., San Bernardino County, Hydrologic Unit 15030102, on left bank 6.6 mi south of Ivanpah.

DRAINAGE AREA.--1.13 mi².

PERIOD OF RECORD.--October 1963 to September 1981, May 1982 to current year.

REVISED RECORDS.--WDR CA-82-1: 1979(M).

GAGE.--Water-stage recorder and crest-stage gage. Elevation of gage is 5,640 ft above sea level, from topographic map.

REMARKS.--No estimated daily discharges. Records poor. No regulation or diversion upstream from station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 814 ft³/s, Aug. 12, 1979, gage height, 5.75 ft, from rating curve extended above 2.5 ft³/s on basis of slope-conveyance studies; no flow for most of each year.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 10 ft³/s and maximum (*), from rating curve extended above 2.5 ft³/s on basis of slope-conveyance studies:

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Dec. 25	0530	13	1.58	Jan. 25	1130	*21	*1.82
Jan. 10	2045	16	1.69	Mar. 11	1030	15	1.65

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	.52	1.1	.00	.20	.00	.00	.00	.00	.00
2	.00	.00	.00	.41	.77	.00	.16	.00	.00	.00	.00	.00
3	.00	.00	.00	.48	.38	.00	.16	.00	.00	.00	.00	.00
4	.00	.00	.00	.82	.24	.00	.13	.00	.00	.00	.00	.00
5	.00	.00	.00	1.2	.16	1.1	.13	.00	.00	.00	.00	.00
6	.00	.00	.00	1.1	.11	1.1	.13	.00	.00	.00	.00	.00
7	.00	.00	.00	1.2	.10	.29	.13	.00	.00	.00	.00	.00
8	.00	.00	.00	3.7	.11	.13	.13	.00	.00	.00	.00	.00
9	.00	.00	.00	4.4	.08	.11	.13	.00	.00	.00	.00	.00
10	.00	.00	.00	5.1	.06	.11	.13	.00	.00	.00	.00	.00
11	.00	.00	.00	4.0	.06	5.0	.19	.00	.00	.00	.00	.00
12	.00	.00	.00	2.6	.04	1.6	.24	.00	.00	.00	.00	.00
13	.00	.00	.00	1.5	.04	.95	.24	.00	.00	.00	.00	.00
14	.00	.00	.00	.89	.06	.72	.18	.00	.00	.00	.00	.00
15	.00	.00	.00	.62	.04	.48	.08	.00	.00	.00	.00	.00
16	.00	.00	.00	.34	.04	.44	.11	.00	.00	.00	.00	.00
17	.00	.00	.00	.29	.02	.38	.20	.00	.00	.00	.00	.00
18	.00	.00	.00	.20	.02	.34	.16	.00	.00	.00	.00	.00
19	.00	.00	.00	.16	.02	.29	.13	.00	.00	.00	.00	.00
20	.00	.00	.00	.13	.02	.29	.13	.00	.00	.00	.00	.00
21	.00	.00	.00	.13	.02	.34	.13	.00	.00	.00	.00	.00
22	.00	.00	.00	.13	.02	.29	.11	.00	.00	.00	.00	.00
23	.00	.00	.00	.13	.02	.34	.11	.00	.00	.00	.00	.00
24	.00	.00	.21	.20	.01	.38	.11	.00	.00	.00	.00	.00
25	.00	.00	9.6	10	.01	.34	.11	.00	.00	.00	.00	.00
26	.00	.00	3.2	2.9	.01	.26	.08	.00	.00	.00	.00	.00
27	.00	.00	1.2	1.2	.00	.29	.01	.00	.00	.00	.00	.00
28	.00	.00	.89	.89	.00	.24	.00	.00	.00	.00	.00	.00
29	.00	.00	.83	.89	---	.20	.00	.00	.00	.00	.00	.00
30	.00	.00	.72	.72	---	.20	.00	.00	.00	.00	.00	.00
31	.00	---	.62	.72	---	.20	---	.00	---	.00	.00	---
TOTAL	0.00	0.00	17.27	47.57	3.56	16.41	3.75	0.00	0.00	0.00	0.00	0.00
MEAN	.000	.000	.56	1.53	.13	.53	.12	.000	.000	.000	.000	.000
MAX	.00	.00	9.6	10	1.1	5.0	.24	.00	.00	.00	.00	.00
MIN	.00	.00	.00	.13	.00	.00	.00	.00	.00	.00	.00	.00
AC-FT	.00	.00	34	94	7.1	33	7.4	.00	.00	.00	.00	.00

THE GREAT BASIN

BRISTOL LAKE BASIN

10252550 CARUTHERS CREEK NEAR IVANPAH, 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	.096	.035	.13	.21	.20	.34	.067	.001	.002	.15	.29	.021
MAX	2.81	.67	1.27	2.22	1.44	2.23	.95	.010	.054	2.45	2.70	.34
(WY)	1977	1966	1966	1993	1980	1992	1965	1983	1972	1984	1979	1976
MIN	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
(WY)	1965	1964	1964	1964	1964	1967	1964	1965	1964	1964	1964	1964

SUMMARY STATISTICS

FOR 1994 CALENDAR YEAR

FOR 1995 WATER YEAR

WATER YEARS 1964 - 1995

ANNUAL TOTAL	21.02	88.56	
ANNUAL MEAN	.058	.24	.13
HIGHEST ANNUAL MEAN			.36 1993
LOWEST ANNUAL MEAN			.001 1964
HIGHEST DAILY MEAN	9.6 Dec 25	10 Jan 25	80 Aug 12 1979
LOWEST DAILY MEAN	.00 Jan 1	.00 Oct 1	.00 Oct 1 1963
ANNUAL SEVEN-DAY MINIMUM	.00 Jan 1	.00 Oct 1	.00 Oct 1 1963
INSTANTANEOUS PEAK FLOW		21 Jan 25	814 Aug 12 1979
INSTANTANEOUS PEAK STAGE		1.82 Jan 25	5.75 Aug 12 1979
ANNUAL RUNOFF (AC-FT)	42	176	92
10 PERCENT EXCEEDS	.00	.48	.08
50 PERCENT EXCEEDS	.00	.00	.00
90 PERCENT EXCEEDS	.00	.00	.00

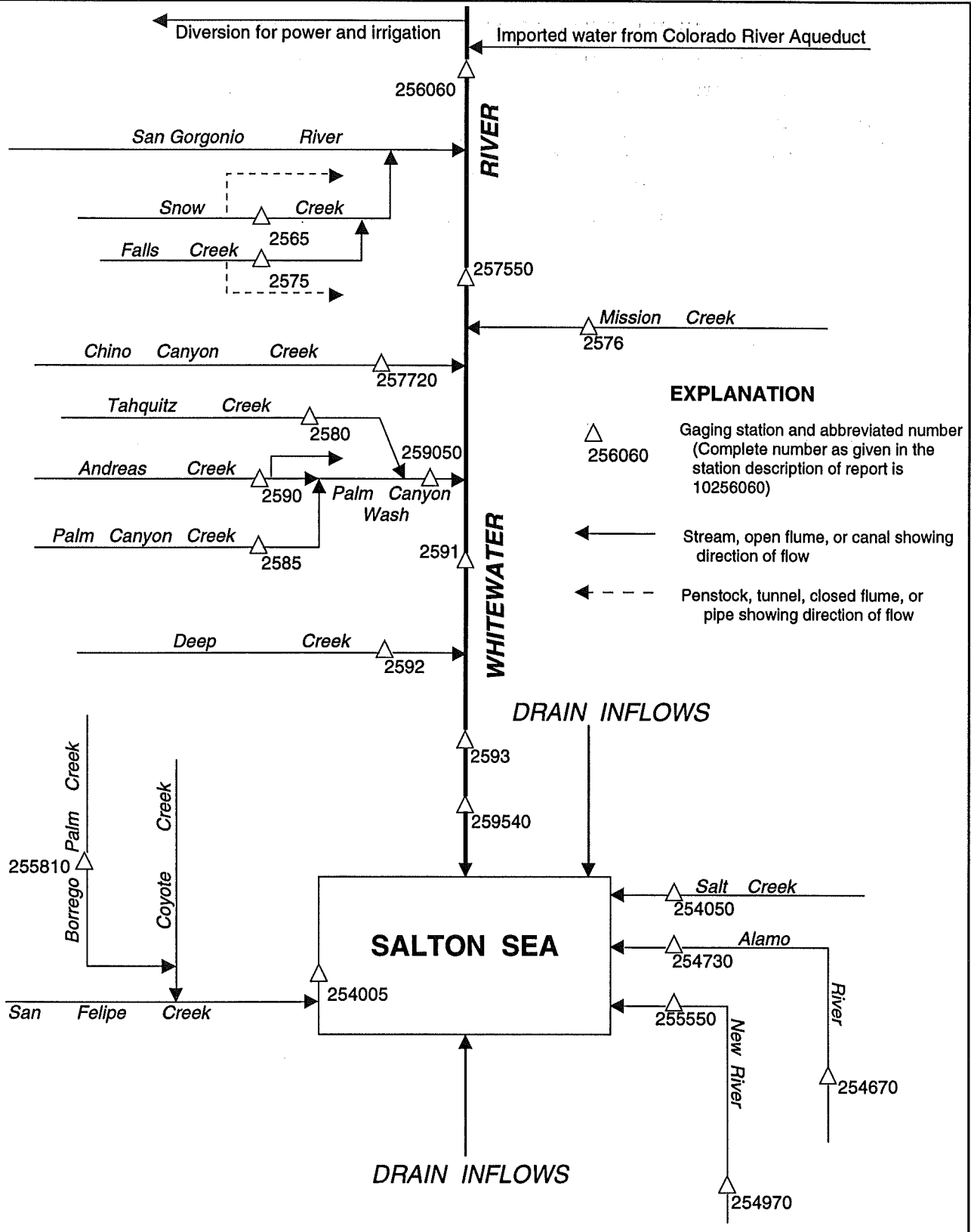


Figure 13. Diversions and storage in Salton Sea basin.

10254005 SALTON SEA NEAR WESTMORLAND, CA

LOCATION.--Lat. 33°11'33", long 115°49'59", in SE 1/4 SW 1/4 sec.21, T.11 S., R.11 E., Imperial County, Hydrologic Unit 18100200, on western shore at Sandy Beach and 15.5 mi northwest of Westmorland.

DRAINAGE AREA.--8,360 mi², approximately.

PERIOD OF RECORD.--November 1904 to current year. Records prior to 1932 are published in WSP 735. Monthend elevations only prior to October 1987.

REVISED RECORDS.--WDR CA-87-1: 1980-85.

GAGE.--Water-stage recorder. Datum of gage is sea level. See WSP 1734 for history of changes prior to Mar. 2, 1956.

REMARKS.--Bottom of sea is 277.7 ft below sea level. See WSP 300, 735, and 918 for condensed history of Salton Sea. See schematic diagram of Salton Sea basin.

EXTREMES FOR PERIOD OF RECORD.--Maximum elevation, 195.9 ft below sea level, in February and March 1907; minimum since 1906, 251.6 ft below sea level in November 1924.

EXTREMES FOR CURRENT YEAR.--Maximum daily elevation, 226.6 ft below sea level, Apr. 8-14, Apr. 24 to May 6, and May 10-18; minimum, 227.9 ft below sea level, Nov. 21 to Dec. 3.

ELEVATION, FEET, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	-227.6	-227.8	-227.9	-227.6	-227.2	-227.0	-226.7	-226.6	-226.7	-226.8	-226.9	-227.1
2	-227.6	-227.8	-227.9	-227.6	-227.2	-227.0	-226.7	-226.6	-226.7	-226.8	-226.9	-227.1
3	-227.6	-227.8	-227.9	-227.6	-227.2	-226.9	-226.7	-226.6	-226.7	-226.8	-226.9	-227.1
4	-227.7	-227.8	-227.8	-227.5	-227.2	-226.9	-226.7	-226.6	-226.7	-226.8	-226.9	-227.1
5	-227.7	-227.8	-227.8	-227.5	-227.2	-226.9	-226.7	-226.6	-226.7	-226.8	-226.9	-227.1
6	-227.7	-227.8	-227.8	-227.5	-227.2	-226.9	-226.7	-226.6	-226.7	-226.8	-226.9	-227.1
7	-227.7	-227.8	-227.8	-227.4	-227.2	-226.9	-226.7	-226.7	-226.7	-226.8	-226.9	-227.1
8	-227.7	-227.8	-227.8	-227.4	-227.2	-226.9	-226.6	-226.7	-226.7	-226.8	-226.9	-227.1
9	-227.7	-227.8	-227.8	-227.4	-227.2	-226.8	-226.6	-226.7	-226.7	-226.8	-226.9	-227.1
10	-227.7	-227.8	-227.8	-227.4	-227.2	-226.8	-226.6	-226.6	-226.7	-226.8	-226.9	-227.1
11	-227.7	-227.8	-227.8	-227.4	-227.2	-226.8	-226.6	-226.6	-226.8	-226.8	-226.9	-227.2
12	-227.7	-227.8	-227.8	-227.4	-227.2	-226.8	-226.6	-226.6	-226.8	-226.8	-227.0	-227.2
13	-227.8	-227.8	-227.8	-227.4	-227.1	-226.8	-226.6	-226.6	-226.8	-226.8	-227.0	-227.2
14	-227.8	-227.8	-227.8	-227.4	-227.1	-226.8	-226.6	-226.6	-226.8	-226.8	-227.0	-227.2
15	-227.8	-227.8	-227.8	-227.4	-227.1	-226.8	-226.7	-226.6	-226.8	-226.8	-227.0	-227.2
16	-227.8	-227.8	-227.8	-227.4	-227.1	-226.8	-226.7	-226.6	-226.8	-226.8	-227.0	-227.2
17	-227.8	-227.8	-227.8	-227.4	-227.1	-226.7	-226.7	-226.6	-226.8	-226.8	-227.0	-227.2
18	-227.8	-227.8	-227.8	-227.4	-227.0	-226.7	-226.7	-226.6	-226.8	-226.8	-227.0	-227.2
19	-227.8	-227.8	-227.8	-227.4	-227.0	-226.7	-226.7	-226.7	-226.8	-226.8	-227.0	-227.2
20	-227.8	-227.8	-227.8	-227.4	-227.0	-226.7	-226.7	-226.7	-226.8	-226.9	-227.0	-227.2
21	-227.8	-227.9	-227.7	-227.4	-227.0	-226.7	-226.7	-226.7	-226.8	-226.9	-227.0	-227.2
22	-227.8	-227.9	-227.7	-227.4	-227.0	-226.7	-226.7	-226.7	-226.8	-226.9	-227.0	-227.2
23	-227.8	-227.9	-227.7	-227.4	-227.0	-226.7	-226.7	-226.7	-226.8	-226.9	-227.0	-227.2
24	-227.8	-227.9	-227.7	-227.3	-227.0	-226.7	-226.6	-226.7	-226.8	-226.9	-227.0	-227.2
25	-227.8	-227.9	-227.7	-227.3	-227.0	-226.7	-226.6	-226.7	-226.8	-226.9	-227.0	-227.3
26	-227.8	-227.9	-227.7	-227.3	-227.0	-226.7	-226.6	-226.7	-226.8	-226.9	-227.0	-227.3
27	-227.8	-227.9	-227.6	-227.3	-227.0	-226.7	-226.6	-226.7	-226.8	-226.9	-227.1	-227.3
28	-227.8	-227.9	-227.6	-227.3	-227.0	-226.7	-226.6	-226.7	-226.8	-226.9	-227.1	-227.3
29	-227.8	-227.9	-227.6	-227.3	---	-226.7	-226.6	-226.7	-226.8	-226.9	-227.1	-227.3
30	-227.8	-227.9	-227.6	-227.3	---	-226.7	-226.6	-226.7	-226.8	-226.9	-227.1	-227.4
31	-227.8	---	-227.6	-227.2	---	-226.7	---	-226.7	---	-226.9	-227.1	---
MAX	-227.60	-227.80	-227.60	-227.20	-227.00	-226.70	-226.60	-226.60	-226.70	-226.80	-226.90	-227.10
MIN	-227.80	-227.90	-227.90	-227.60	-227.20	-227.00	-226.70	-226.70	-226.80	-226.90	-227.10	-227.40
CAL YR 1994	MAX -226.90		MIN -227.90									
WTR YR 1995	MAX -226.60		MIN -227.90									

FLOW FROM MEXICO AT INTERNATIONAL BOUNDARY

The following table lists the monthly and annual flows, in acre-feet, of the Alamo River and New River (station 10254970) at the United States-Mexico International Boundary. Data for Alamo River provided by Imperial Irrigation District.

	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
Alamo River	133	142	141	137	130	161	147	154	154	142	117	86
New River	9630	7260	12610	16830	12920	11660	11750	13030	11430	12180	9030	9070
CAL YR 1994:	Alamo River					1,740 acre-ft					WTR YR 1995:	
CAL YR 1994:	New River					143,900 acre-ft					WTR YR 1995:	
											1,640 acre-ft	
											137,400 acre-ft	

SALTON SEA BASIN

10254050 SALT CREEK NEAR MECCA, CA

LOCATION.--Lat 33°26'49", long 115°50'33", in SE 1/4 SW 1/4 sec.28, T.8 S., R.11 E., Riverside County, Hydrologic Unit 18100200, on pier of Southern Pacific railroad bridge, 0.3 mi upstream from mouth, and 16 mi southeast of Mecca.

DRAINAGE AREA.--269 mi².

PERIOD OF RECORD.--January 1961 to current year (since October 1990, low-flow records only).

GAGE.--Water-stage recorder. Elevation of gage is 230 ft below sea level, from topographic map. Prior to Dec. 21, 1984, at same site, at datum 2.50 ft lower.

REMARKS.--No estimated daily discharges. Records fair above 1 ft³/s and poor below. No regulation or diversion upstream from station. No discharge records computed above 20 ft³/s since October 1990. See schematic diagram of Salton Sea basin.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge (January 1961 to September 1990), 9,900 ft³/s, Sept. 24, 1976, gage height, 16.8 ft, present datum, from floodmarks, from rating curve extended above 20 ft³/s on basis of contracted-opening measurement of peak flow; maximum gage height, 19.4 ft, present datum, Mar. 2, 1983 (backwater from Salton Sea and channel vegetation); no flow Aug. 1 to Sept. 11, 1994.

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	.08	.91	2.1	3.6	4.1	3.0	1.5	.58	.17	.05	.04	.03
2	.08	1.1	2.1	3.5	4.0	2.9	1.5	.54	.17	.04	.03	.03
3	.08	1.1	2.1	3.6	4.0	2.9	1.5	.52	.16	.04	.03	.03
4	.10	1.1	2.2	---	3.9	3.0	1.4	.49	.18	.04	.02	.03
5	.11	1.2	2.3	---	3.9	3.0	1.3	.51	.19	.04	.02	.03
6	.13	1.2	2.4	13	3.8	2.8	1.3	.64	.17	.04	.01	.03
7	.13	1.2	2.4	5.5	3.9	2.6	1.3	.71	.15	.04	.01	.04
8	.12	1.2	2.3	4.7	3.9	2.3	1.3	.76	.13	.04	.01	.04
9	.11	1.3	2.2	4.5	3.9	2.4	1.2	.78	.13	.03	.02	.04
10	.12	1.4	2.1	4.4	3.8	2.4	1.1	.76	.13	.04	.01	.04
11	.13	1.5	2.3	4.4	3.8	4.1	1.0	.73	.12	.05	.01	.04
12	.14	2.0	2.4	4.4	3.9	4.6	.98	.67	.11	.06	.01	.04
13	.15	2.1	2.6	4.3	3.9	3.5	1.0	.60	.10	.06	.02	.05
14	.16	1.7	2.6	4.2	4.3	3.0	1.1	.50	.10	.07	.02	.05
15	.18	1.6	2.6	4.2	9.1	2.8	1.1	.45	.10	.08	.01	.05
16	.19	1.6	2.5	4.1	5.7	2.7	1.1	.49	.11	.11	.02	.06
17	.21	1.7	2.6	4.0	4.2	2.6	1.2	.52	.12	.12	.02	.06
18	.24	1.7	2.6	3.9	3.9	2.4	1.3	.55	.12	.11	.02	.06
19	.27	1.7	2.6	3.9	3.8	2.4	1.9	.51	.12	.09	.03	.07
20	.30	1.6	2.6	4.0	3.5	2.3	1.7	.45	.11	.13	.03	.07
21	.35	1.7	2.6	4.1	3.4	2.3	1.4	.38	.11	.14	.03	.08
22	.43	1.9	2.6	4.2	3.4	2.3	1.2	.35	.11	.10	.03	.08
23	.52	1.9	2.8	4.2	3.5	2.1	1.0	.34	.10	.08	.03	.09
24	.59	2.0	3.1	4.2	3.5	2.2	.92	.34	.09	.08	.03	.09
25	.72	2.0	7.3	4.5	3.4	2.2	.87	.35	.08	.10	.03	.09
26	.70	2.0	7.0	5.2	3.2	2.0	.84	.33	.08	.12	.03	.10
27	.66	2.0	4.6	4.7	3.0	1.9	.79	.30	.08	.08	.03	.11
28	.68	1.9	4.0	4.3	3.1	1.8	.75	.28	.08	.07	.03	.12
29	.73	2.0	3.9	4.3	---	1.7	.69	.25	.07	.05	.02	.13
30	.79	2.0	3.8	4.2	---	1.7	.63	.21	.06	.04	.03	.14
31	.79	---	3.7	4.1	---	1.6	---	.18	---	.04	.03	---
TOTAL	9.99	48.31	93.0	---	111.8	79.5	34.87	15.07	3.55	2.18	0.71	1.92
MEAN	.32	1.61	3.00	---	3.99	2.56	1.16	.49	.12	.070	.023	.064
MAX	.79	2.1	7.3	---	9.1	4.6	1.9	.78	.19	.14	.04	.14
MIN	.08	.91	2.1	---	3.0	1.6	.63	.18	.06	.03	.01	.03
AC-FT	20	96	184	---	222	158	69	30	7.0	4.3	1.4	3.8

SALTON SEA BASIN

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10254050 SALT CREEK NEAR MECCA, CA--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1962 - 1990, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	5.61	7.45	8.05	9.86	11.6	13.5	5.56	3.86	2.85	3.40	5.05	7.02
MAX	12.6	22.1	14.8	18.8	45.5	137	11.9	12.7	7.50	21.0	55.6	76.5
(WY)	1964	1981	1966	1977	1980	1983	1980	1980	1975	1986	1983	1976
MIN	1.55	1.05	1.59	4.13	4.26	3.79	2.37	1.49	.86	.41	.70	.59
(WY)	1990	1979	1979	1990	1990	1990	1986	1986	1989	1989	1989	1978

SUMMARY STATISTICS

WATER YEARS 1962 - 1990

ANNUAL MEAN	6.97	
HIGHEST ANNUAL MEAN	23.7	
LOWEST ANNUAL MEAN	2.57	1989
HIGHEST DAILY MEAN	2830	Mar 2 1983
LOWEST DAILY MEAN	.06	Nov 1 1978
ANNUAL SEVEN-DAY MINIMUM	.07	Oct 30 1978
INSTANTANEOUS PEAK FLOW	9900	Sep 24 1976
INSTANTANEOUS PEAK STAGE	16.80	Sep 24 1976
ANNUAL RUNOFF (AC-FT)	5050	
10 PERCENT EXCEEDS	10	
50 PERCENT EXCEEDS	4.6	
90 PERCENT EXCEEDS	1.3	

10254670 ALAMO RIVER AT DROP NO. 3, NEAR CALIPATRIA, CA

LOCATION.--Lat 33°06'16", long 115°32'39", on line between secs.19 and 20, T.12 S., R.14 E., Imperial County, Hydrologic Unit 18100200, on right bank 2.2 mi southwest of Calipatria.

PERIOD OF RECORD.--October 1979 to current year. Records prior to October 1979 in files of the Imperial Irrigation District.

CHEMICAL DATA: Water years 1969-70, 1975-77, 1979-94.

BIOLOGICAL DATA: Water years 1979-81.

SPECIFIC CONDUCTANCE: Water years 1969-70, 1975-77, 1979-84.

WATER TEMPERATURE: Water years 1969-70, 1975-77, 1979-84.

SEDIMENT DATA: Water years 1979-94.

GAGE.--Water-stage recorder and broad-crested weir. Elevation of gage is 185 ft below sea level, from topographic map.

REMARKS.--No estimated daily discharges. Records good below 1,000 ft³/s, and fair above. Flow is mainly return from irrigated areas. See schematic diagram of Salton Sea basin.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 5,980 ft³/s, Mar. 27, 1992, gage height, 6.56 ft, from rating curve extended above 1,000 ft³/s; minimum daily, 259 ft³/s, Jan. 2, 1985.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,690 ft³/s, Apr. 19, gage height, 3.24 ft; minimum daily, 330 ft³/s, Jan. 30, 31.

REVISIONS.--The maximum discharge for water year 1993 has been revised to 4,940 ft³/s, Jan. 17, 1993, (estimated), gage height 7.20 ft, affected by backwater.

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	872	799	663	365	348	821	1080	900	833	838	854	695
2	910	802	684	361	389	862	1110	895	847	772	803	679
3	911	777	663	365	403	899	1000	861	867	790	822	706
4	911	791	637	412	415	882	1010	874	859	780	833	656
5	949	807	616	560	460	873	1030	885	856	768	828	635
6	917	810	635	419	472	884	1050	960	855	819	828	657
7	919	765	650	371	511	879	1060	931	818	800	814	687
8	885	752	629	353	541	904	1110	889	861	819	812	666
9	890	808	641	346	622	929	1050	892	899	826	823	644
10	875	873	650	390	679	921	959	907	870	852	831	607
11	867	866	677	367	695	973	982	914	826	845	819	632
12	866	856	623	351	695	979	1020	924	792	869	836	672
13	883	720	654	353	678	883	1040	908	757	889	855	697
14	871	635	643	353	751	843	1070	874	777	877	866	729
15	826	635	650	332	756	888	1090	867	759	886	818	817
16	814	671	632	333	622	939	1040	874	774	923	813	826
17	833	664	630	344	606	1000	981	907	794	871	803	843
18	853	727	649	376	621	1030	1050	848	840	852	798	788
19	852	694	595	398	620	1000	1400	862	880	798	801	748
20	847	630	604	397	581	1070	1080	886	865	828	823	769
21	802	622	632	402	634	983	1080	873	855	801	812	771
22	788	707	649	441	674	938	1040	826	866	751	753	758
23	806	769	665	415	666	967	995	825	826	762	756	759
24	779	790	609	456	714	971	913	857	829	816	812	799
25	806	672	514	613	782	993	992	891	848	830	813	815
26	814	674	535	539	796	1000	1010	860	855	859	738	808
27	832	665	472	378	769	993	986	845	847	871	728	813
28	858	597	408	341	806	984	1020	841	806	884	701	789
29	857	584	382	351	---	1010	984	825	841	853	696	769
30	857	638	386	330	---	1020	995	814	849	878	680	834
31	804	---	367	330	---	1050	---	797	---	885	681	---
TOTAL	26554	21800	18444	12142	17306	29368	31227	27112	25051	25892	24650	22068
MEAN	857	727	595	392	618	947	1041	875	835	835	795	736
MAX	949	873	684	613	806	1070	1400	960	899	923	866	843
MIN	779	584	367	330	348	821	913	797	757	751	680	607
AC-FT	52670	43240	36580	24080	34330	58250	61940	53780	49690	51360	48890	43770

10254670 ALAMO RIVER AT DROP NO. 3, NEAR CALIPATRIA, 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	789	669	545	516	598	818	965	844	696	689	708	729
MAX	895	809	666	640	718	947	1208	1000	888	888	846	847
(WY)	1992	1991	1991	1993	1991	1995	1994	1994	1994	1994	1994	1994
MIN	655	569	379	392	445	697	812	706	515	556	593	631
(WY)	1982	1982	1986	1995	1980	1987	1986	1982	1982	1982	1982	1986

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR			FOR 1995 WATER YEAR			WATER YEARS 1980 - 1995		
ANNUAL TOTAL	303092			281614					
ANNUAL MEAN	830			772			714		
HIGHEST ANNUAL MEAN							833		
LOWEST ANNUAL MEAN							628		
HIGHEST DAILY MEAN	1330			Apr 21			1400		
LOWEST DAILY MEAN	367			Dec 31			Apr 19		
ANNUAL SEVEN-DAY MINIMUM	438			Dec 25			Jan 30		
INSTANTANEOUS PEAK FLOW							259		
INSTANTANEOUS PEAK STAGE							Jan 11		
ANNUAL RUNOFF (AC-FT)	601200			558600			277		
10 PERCENT EXCEEDS	1110			984			5980		
50 PERCENT EXCEEDS	839			814			(a) 7.20		
90 PERCENT EXCEEDS	606			458			700		
							497		

(a) Affected by backwater.

SALTON SEA BASIN

10254730 ALAMO RIVER NEAR NILAND, CA

LOCATION.--Lat 33°11'56", long 115°35'46", in SW 1/4 NW 1/4 sec.23, T.11 S., R.13 E., Imperial County, Hydrologic Unit 18100200, on left bank 1.0 mi upstream from mouth and 4.5 mi southwest of Niland.

PERIOD OF RECORD.--January 1943 to September 1960 (monthly discharge only, published in WSP 1743), October 1960 to current year.

GAGE.--Acoustic-velocity meter and water-stage recorder. Elevation of gage is 220 ft below sea level, from topographic map. Prior to Oct. 1, 1986, at site 0.4 mi downstream at different datum.

REMARKS.--No estimated daily discharges. Records good. Discharge mainly represents seepage and return flow from irrigated areas. See schematic diagram of Salton Sea basin.

COOPERATION.--Gage-height record provided by Imperial Irrigation District for the following dates: Nov. 4-12 and Dec. 25-26.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 4,500 ft³/s, Aug. 17, 1977, estimated by Imperial Irrigation District; minimum daily, 288 ft³/s, Jan. 2, 1966, Dec. 15, 1984.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 1,260 ft³/s, Apr. 2; minimum daily, 362 ft³/s, Jan. 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	952	850	735	395	391	961	1240	1070	865	898	975	802
2	1030	862	768	387	428	994	1260	1030	929	869	918	792
3	1070	833	742	397	480	1010	1230	1020	966	892	920	789
4	1080	880	696	436	491	1000	1150	966	948	897	966	751
5	1100	856	693	599	529	1020	1170	989	929	879	966	724
6	1100	864	687	479	543	1010	1180	1030	929	898	957	727
7	1100	864	733	408	570	991	1180	1030	920	879	929	746
8	1030	818	695	389	627	1010	1230	959	948	853	937	748
9	1020	833	716	376	698	1050	1230	1020	994	859	946	721
10	975	988	723	421	753	1070	1160	1070	957	920	937	668
11	967	980	752	413	775	1150	1130	1060	896	938	946	679
12	956	971	687	399	780	1180	1160	1070	831	966	956	720
13	993	812	733	391	761	1060	1170	944	817	1000	974	734
14	971	694	737	392	823	969	1230	1010	847	1000	1030	751
15	920	688	741	362	889	1020	1240	988	843	994	956	838
16	880	719	728	372	710	1060	1240	925	841	1050	946	856
17	901	732	696	385	643	1150	1160	996	900	1020	928	892
18	922	782	711	418	656	1190	1130	938	938	966	928	858
19	945	768	656	447	656	1190	1250	936	938	891	904	813
20	944	679	662	462	614	1240	1220	978	938	912	909	802
21	879	674	700	463	664	1210	1220	939	938	911	918	828
22	858	759	715	486	730	1140	1190	903	948	836	861	810
23	858	837	720	459	746	1150	1160	900	903	842	884	790
24	850	850	673	493	779	1170	1030	949	903	877	880	839
25	835	760	612	602	845	1190	1080	976	898	920	909	847
26	878	770	546	618	874	1150	1130	957	911	938	864	837
27	895	750	532	448	874	1170	1140	948	929	975	869	840
28	939	679	476	391	908	1180	1150	910	895	984	842	849
29	948	636	433	404	---	1180	1140	903	907	957	824	827
30	950	693	427	386	---	1230	1160	885	920	948	774	899
31	877	---	423	365	---	1200	---	836	---	984	796	---
TOTAL	29623	23881	20548	13443	19237	34295	35360	30135	27326	28753	28349	23777
MEAN	956	796	663	434	687	1106	1179	972	911	928	914	793
MAX	1100	988	768	618	908	1240	1260	1070	994	1050	1030	899
MIN	835	636	423	362	391	961	1030	836	817	836	774	668
AC-FT	58760	47370	40760	26660	38160	68020	70140	59770	54200	57030	56230	47160

SALTON SEA BASIN

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10254730 ALAMO RIVER NEAR NILAND, 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	951	760	639	638	760	972	1089	958	818	823	843	903
MAX	1159	851	792	834	970	1144	1272	1182	981	1027	1278	1271
WY)	1964	1991	1973	1972	1964	1963	1980	1975	1963	1963	1977	1962
MIN	742	616	416	396	495	734	797	684	646	636	656	667
WY)	1986	1966	1986	1978	1993	1987	1965	1964	1964	1985	1986	1992

SUMMARY STATISTICS	FOR 1984 CALENDAR YEAR	FOR 1995 WATER YEAR	WATER YEARS 1961 - 1995
ANNUAL TOTAL	329780	314727	
ANNUAL MEAN	904	862	846
HIGHEST ANNUAL MEAN			991
LOWEST ANNUAL MEAN			680
HIGHEST DAILY MEAN	1380	Apr 24	4500
LOWEST DAILY MEAN	423	Dec 31	288
ANNUAL SEVEN-DAY MINIMUM	474	Feb 9	323
ANNUAL RUNOFF (AC-FT)	654100	624300	613100
50 PERCENT EXCEEDS	1160	1150	1110
50 PERCENT EXCEEDS	922	896	838
50 PERCENT EXCEEDS	659	515	600

10254970 NEW RIVER AT INTERNATIONAL BOUNDARY, AT CALEXICO, CA

LOCATION.--Lat 32°39'57", long 115°30'08", in SW 1/4 SE 1/4 sec.14, T.17 S., R.14 E., Imperial County, Hydrologic Unit 18100200, on left bank 200 ft downstream from bridge on Second Street and 0.2 mi downstream from international boundary in Calexico.

PERIOD OF RECORD.--October 1979 to current year. October 1945 to September 1979, in files of Imperial Irrigation District.

CHEMICAL DATA: Water years 1969-71, 1973-85.

BIOLOGICAL DATA: Water years 1973-81.

SPECIFIC CONDUCTANCE: Water years 1974-81.

WATER TEMPERATURE: Water years 1974-81.

SEDIMENT DATA: Water years 1975-85.

GAGE.--Water-stage recorder. Elevation of gage is 35 ft below sea level, from topographic map.

REMARKS.--No estimated daily discharges. Records good. Discharge represents seepage and return flow from irrigated areas. See schematic diagram of Salton Sea basin.

COOPERATION.--Gage-height record provided by Imperial Irrigation District for the following dates: Oct. 1-31.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 833 ft³/s, Dec. 9, 1982, gage height, 14.73 ft; minimum daily, 115 ft³/s, Nov. 27, 1994.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 680 ft³/s, Dec. 26, gage height, 13.52 ft; minimum daily, 115 ft³/s, Nov. 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	179	124	124	326	252	232	188	207	176	182	188	142
2	174	124	125	310	247	211	174	230	182	172	165	136
3	170	128	128	366	260	201	172	262	170	168	147	134
4	173	127	131	388	264	189	173	256	168	171	143	133
5	181	122	135	378	245	189	176	229	176	173	140	132
6	172	122	136	313	227	194	169	224	178	175	137	136
7	163	122	140	310	216	196	166	209	172	188	133	135
8	156	123	140	301	206	190	164	215	187	196	136	135
9	155	124	139	296	201	188	166	224	190	184	142	143
10	160	119	143	299	203	183	178	241	190	181	140	146
11	164	122	153	286	200	182	194	251	202	191	137	143
12	162	122	151	282	193	180	210	237	212	218	136	154
13	157	119	145	261	178	181	208	215	201	213	137	156
14	154	124	146	242	175	189	187	209	228	221	140	159
15	150	125	159	229	198	203	175	217	229	221	135	157
16	149	123	178	219	224	199	172	229	202	213	137	156
17	154	122	170	224	253	191	177	223	177	203	133	159
18	162	120	164	220	246	183	197	214	170	205	132	163
19	160	118	161	211	233	188	223	210	185	241	135	163
20	155	117	167	201	237	187	214	202	181	246	147	166
21	157	119	168	193	251	177	208	199	189	212	153	162
22	155	130	178	194	262	168	201	201	202	183	158	162
23	156	125	179	215	249	174	200	197	195	184	158	158
24	154	121	191	211	240	172	205	202	190	192	153	156
25	157	128	320	399	256	174	227	192	189	213	161	156
26	156	119	479	268	267	180	257	188	189	220	166	167
27	145	115	430	278	265	181	258	174	207	217	157	166
28	135	116	410	278	265	181	244	170	216	207	158	166
29	134	119	375	269	---	195	225	177	216	191	155	168
30	130	122	356	263	---	208	215	182	196	182	150	163
31	128	---	335	257	---	211	---	183	---	178	145	---
TOTAL	4857	3661	6356	8487	6513	5877	5923	6569	5765	6141	4554	4572
MEAN	157	122	205	274	233	190	197	212	192	198	147	152
MAX	181	130	479	399	267	232	258	262	229	246	188	168
MIN	128	115	124	193	175	168	164	170	168	168	132	132
AC-FT	9630	7260	12610	16830	12920	11660	11750	13030	11430	12180	9030	9070

10254970 NEW RIVER AT INTERNATIONAL BOUNDARY, AT CALEXICO, 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	233	222	263	270	272	285	296	272	228	242	277	253
MAX	370	333	374	366	375	395	452	389	321	394	441	399
(WY)	1984	1985	1987	1987	1987	1986	1986	1984	1984	1984	1984	1983
MIN	149	122	167	187	179	190	190	177	154	139	147	152
(WY)	1993	1995	1980	1980	1991	1995	1991	1990	1992	1994	1995	1992

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR				FOR 1995 WATER YEAR				WATER YEARS 1980 - 1995			
ANNUAL TOTAL	72561				69275							
ANNUAL MEAN	199				190				260			
HIGHEST ANNUAL MEAN									362			
LOWEST ANNUAL MEAN									186			1986
HIGHEST DAILY MEAN	479				Dec 26	479				Dec 26	735	
LOWEST DAILY MEAN	115				Nov 27	115				Nov 27	115	
ANNUAL SEVEN-DAY MINIMUM	120				Nov 24	120				Nov 24	120	
INSTANTANEOUS PEAK FLOW						680				Dec 26	833	
INSTANTANEOUS PEAK STAGE						13.52				Dec 26	14.73	
ANNUAL RUNOFF (AC-FT)	143900					137400					188000	
10 PERCENT EXCEEDS	270					256					373	
50 PERCENT EXCEEDS	191					181					242	
90 PERCENT EXCEEDS	130					132					163	

SALTON SEA BASIN

10255550 NEW RIVER NEAR WESTMORLAND, CA

LOCATION.--Lat 33°06'17", long 115°39'49", in SW 1/4 SW 1/4 sec.19, T.12 S., R.13 E., Imperial County, Hydrologic Unit 18100200, on right bank 3.5 mi upstream from mouth and 5.2 mi northwest of Westmorland.

PERIOD OF RECORD.--January 1943 to current year. (Monthly discharge only, January 1943 to September 1960 published in WSP 1734; daily discharge available in files of the U.S. Geological Survey.)

GAGE.--Water-stage recorder. Elevation of gage is 220 ft below sea level, from topographic map.

REMARKS.--No estimated daily discharges. Records good. Discharge mainly represents seepage and return flow from irrigated areas. See schematic diagram of Salton Sea basin.

COOPERATION.--Gage-height record provided by Imperial Irrigation District for the following dates: Dec. 25, 26.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 3,000 ft³/s, Aug. 17, 18, 1977, estimated by Imperial Irrigation District; minimum daily, 150 ft³/s, Mar. 7, 1945.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 875 ft³/s, Apr. 2; minimum daily, 439 ft³/s, Nov. 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	646	555	546	563	524	747	843	785	683	665	685	573
2	658	565	517	548	534	760	875	760	723	654	701	584
3	644	585	520	545	535	723	816	729	736	651	678	592
4	641	547	528	565	563	729	799	759	748	624	657	574
5	623	546	507	649	558	709	774	786	718	608	629	567
6	614	529	481	617	560	692	796	800	706	647	633	574
7	606	532	478	585	590	697	817	813	720	640	656	557
8	633	537	494	537	567	696	809	804	708	659	647	542
9	622	517	490	524	561	667	770	774	701	681	639	553
10	604	529	511	518	588	671	773	763	718	675	670	554
11	612	535	533	530	598	718	754	770	719	686	661	577
12	614	537	513	521	601	740	792	772	684	703	629	551
13	585	498	538	513	589	681	789	779	703	690	648	560
14	600	439	524	511	591	679	829	758	701	698	665	611
15	587	455	507	502	617	661	838	694	702	699	633	613
16	605	472	506	482	594	685	804	712	736	713	646	638
17	586	467	508	471	568	725	798	725	739	706	623	643
18	581	474	545	482	585	755	804	743	728	712	633	643
19	562	473	551	500	592	777	838	750	721	720	648	654
20	586	452	558	502	585	752	844	758	688	695	640	633
21	617	450	565	507	597	754	862	790	666	695	645	622
22	578	469	564	512	652	717	841	767	699	668	667	605
23	574	477	561	498	658	729	804	769	697	637	663	608
24	544	505	529	519	654	711	726	749	688	633	636	594
25	565	493	533	560	647	700	778	720	664	676	606	570
26	578	516	499	568	645	717	779	734	654	694	605	567
27	577	511	566	610	668	754	814	698	694	687	605	581
28	572	487	622	540	703	765	828	696	659	709	613	614
29	579	498	629	537	---	775	808	691	679	739	618	625
30	558	516	618	525	---	781	813	701	675	711	624	630
31	539	---	584	519	---	819	---	684	---	668	592	---
TOTAL	18490	15166	16625	16560	16724	22486	24215	23233	21058	21043	19895	17809
MEAN	596	506	536	534	597	725	807	749	702	679	642	594
MAX	658	585	629	649	703	819	875	813	748	739	701	654
MIN	539	439	478	471	524	661	726	684	654	608	592	542
AC-FT	36670	30080	32980	32850	33170	44600	48030	46080	41770	41740	39460	35320

SALTON SEA BASIN

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10255550 NEW RIVER NEAR WESTMORLAND, CA--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1943 - 1995, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
EAN	643	564	547	564	596	672	722	656	586	592	610	618
AX	837	760	707	795	789	810	953	853	763	808	913	807
WY)	1953	1954	1963	1944	1944	1954	1993	1953	1953	1979	1977	1963
IN	471	408	386	387	458	516	541	485	435	442	460	486
WY)	1978	1965	1968	1978	1965	1965	1965	1964	1964	1964	1964	1970

UMMARY STATISTICS	FOR 1994 CALENDAR YEAR					FOR 1995 WATER YEAR				WATER YEARS 1943 - 1995		
NNUAL TOTAL	234324					233304						
NNUAL MEAN	642					639				614		
IGHEST ANNUAL MEAN										741		
OWEST ANNUAL MEAN										484		
IGHEST DAILY MEAN	933					875				3000		
OWEST DAILY MEAN	439					439				150		
NNUAL SEVEN-DAY MINIMUM	462					462				284		
NNUAL RUNOFF (AC-FT)	464800					462800				444600		
0 PERCENT EXCEEDS	816					774				760		
0 PERCENT EXCEEDS	620					637				603		
0 PERCENT EXCEEDS	529					513				481		

SALTON SEA BASIN

10255810 BORREGO PALM CREEK NEAR BORREGO SPRINGS, CA

LOCATION.--Lat 33°16'44", long 116°25'45", in Anza-Borrego Desert State Park, San Diego County, Hydrologic Unit 18100200, on left bank 3.3 mi northwest of Borrego Springs.

DRAINAGE AREA.--21.8 mi².

PERIOD OF RECORD.--October 1950 to September 1993, October 1994 to September 1995. Prior to October 1960, published as Palm Canyon Creek near Borrego Springs. Monthly discharge only for October to November 1950, published in WSP 1734.

REVISED RECORDS.--WSP 2128: Drainage area.

GAGE.--Water-stage recorder. Elevation of gage is 1,200 ft above sea level, from topographic map.

REMARKS.--Records fair except for discharges above 100 ft³/s and estimated daily discharges, which are poor. No regulation or diversion upstream from station. See schematic diagram of Salton Sea basin.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,640 ft³/s, Aug. 16, 1979, gage height, 9.8 ft, from floodmarks, 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 15 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Jan. 5	0300	34	3.03	Mar. 5	2315	*591	*4.78
Jan. 26	0445	98	3.39	Mar. 11	Unknown	Unknown	Unknown

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	.66	.73	1.9	1.4	3.7	1.5	.60	.04	.00	.00
2	.00	.00	.62	.73	1.7	1.4	3.4	1.4	.68	.03	.00	.00
3	.00	.00	.62	1.1	1.5	2.4	2.8	1.4	.74	.03	.00	.00
4	.00	.00	.62	4.0	1.5	3.0	2.6	1.3	.58	.02	.00	.00
5	.00	.00	.63	14	1.4	89	2.4	1.9	.48	.01	.00	.00
6	.00	.00	.73	3.3	1.3	e149	2.2	2.9	.46	.01	.00	.00
7	.00	.00	.73	2.0	1.3	e20	2.1	2.9	.56	.00	.00	.00
8	.00	.00	.70	2.1	1.3	e11	2.3	2.7	.69	.00	.00	.00
9	.00	.00	.67	1.8	1.3	e8.0	2.2	2.2	.59	.00	.00	.00
10	.00	.00	.67	1.6	1.3	e5.0	2.1	1.8	.45	.00	.00	.00
11	.00	.00	.67	4.0	1.3	e30	2.0	1.6	.34	.00	.00	.00
12	.00	.00	.67	2.9	1.3	e14	1.9	1.6	.26	.00	.00	.00
13	.00	.00	.67	2.4	1.3	e9.0	1.9	1.9	.22	.00	.00	.00
14	.00	.00	.67	1.9	5.5	e6.5	2.3	2.0	.19	.00	.00	.00
15	.00	.00	.67	1.7	4.1	e5.0	2.5	2.0	.21	.00	.00	.00
16	.00	.00	.66	2.2	2.5	e5.0	3.4	1.9	.60	.00	.00	.00
17	.00	.01	.65	2.1	2.1	e4.5	4.1	1.7	.77	.00	.00	.00
18	.00	.28	.64	1.8	1.9	e5.0	5.9	1.5	.53	.00	.00	.00
19	.00	.49	.62	1.6	1.7	e4.5	5.7	1.4	.35	.00	.00	.00
20	.00	.49	.62	1.5	1.6	e4.4	4.7	1.2	.24	.00	.00	.00
21	.00	.49	.61	1.6	1.6	4.4	4.4	1.0	.19	.00	.00	.00
22	.00	.49	.64	1.5	1.6	4.5	3.8	1.1	.16	.00	.00	.00
23	.00	.52	.78	1.4	1.5	5.9	2.9	1.2	.12	.00	.00	.00
24	.00	.53	.75	1.9	1.4	5.4	2.4	1.2	.11	.00	.00	.00
25	.00	.53	.95	4.5	1.4	4.8	2.0	1.1	.10	.00	.00	.00
26	.00	.57	.87	31	1.4	3.9	1.7	.98	.08	.00	.00	.00
27	.00	.82	.75	6.7	1.4	3.1	1.5	.87	.07	.00	.00	.00
28	.00	.76	.73	3.7	1.4	3.0	1.5	.86	.06	.00	.00	.00
29	.00	.71	.72	2.7	---	2.7	1.5	.87	.05	.00	.00	.00
30	.00	.67	.69	2.3	---	2.5	1.5	.72	.04	.00	.00	.00
31	.00	---	.71	2.0	---	3.0	---	.64	---	.00	.00	---
TOTAL	0.00	7.36	21.39	112.76	49.5	421.3	83.4	47.34	10.52	0.14	0.00	0.00
MEAN	.000	.25	.69	3.64	1.77	13.6	2.78	1.53	.35	.005	.000	.000
MAX	.00	.82	.95	31	5.5	149	5.9	2.9	.77	.04	.00	.00
MIN	.00	.00	.61	.73	1.3	1.4	1.5	.64	.04	.00	.00	.00
AC-FT	.00	15	42	224	98	836	165	94	21	.3	.00	.00

e Estimated.

SALTON SEA BASIN

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10255810 BORREGO PALM CREEK NEAR BORREGO SPRINGS, 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	.19	.35	.81	1.79	2.93	3.23	1.62	.71	.24	.22	.52	.17
MAX	2.83	2.97	5.29	27.4	32.5	29.3	11.2	7.55	3.96	4.46	10.6	3.27
(WY)	1984	1984	1984	1993	1980	1983	1980	1980	1980	1979	1979	1983
MIN	.000	.000	.000	.000	.030	.073	.007	.000	.000	.000	.000	.000
(WY)	1951	1951	1963	1972	1972	1972	1972	1961	1954	1952	1951	1951

SUMMARY STATISTICS

FOR 1995 WATER YEAR

WATER YEARS 1951 - 1995

ANNUAL TOTAL	753.71		
ANNUAL MEAN	2.06	1.06	
HIGHEST ANNUAL MEAN		7.61	1980
LOWEST ANNUAL MEAN		.009	1972
HIGHEST DAILY MEAN	149	Mar 6	277
LOWEST DAILY MEAN	.00	Oct 1	.00
ANNUAL SEVEN-DAY MINIMUM	.00	Oct 1	.00
INSTANTANEOUS PEAK FLOW	591	Mar 5	2640
INSTANTANEOUS PEAK STAGE	4.78	Mar 5	9.80
ANNUAL RUNOFF (AC-FT)	1490		766
10 PERCENT EXCEEDS	3.7		2.1
50 PERCENT EXCEEDS	.64		.10
90 PERCENT EXCEEDS	.00		.00

10256060 WHITEWATER RIVER AT WHITE WATER CUTOFF, AT WHITE WATER, CA

LOCATION.--Lat 33°55'31", long 116°38'07", in NE 1/4 SE 1/4 sec.11, T.3 S., R.3 E., Riverside County, Hydrologic Unit 18100200, on center pier of White Water Cutoff (old Highway 99) bridge, 0.1 mi east of White Water, 0.75 mi downstream from Metropolitan Water District's Colorado River Aqueduct turnout, and 2.0 mi upstream from San Geronio River.

DRAINAGE AREA.--59.1 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1985 to September 1987 and October 1988 to September 1990. Discharge measurements for the period October 1984 to September 1985 available in files of the U.S. Geological Survey. Discharge measurements only, October 1987 to September 1988, October 1990 to current year. Station discontinued as continuous-record site effective September 30, 1993.

GAGE.--None. Elevation of station is 1,360 ft above sea level, from topographic map.

REMARKS.--Indeterminate stage-discharge relationship. At times, imported water is released to the Whitewater River from the Colorado River Aqueduct at a point 0.75 mi upstream. Water is diverted out of the basin 16.5 mi upstream to powerplants in the San Geronio River basin and then to an area north of Banning for irrigation. See schematic diagram of Salton Sea basin.

EXTREMES FOR PERIOD OF RECORD (1986-87 AND 1989-90).--Maximum discharge, 2,020 ft³/s, Feb. 15, 1986, gage height, 11.97 ft, from rating curve extended above 900 ft³/s; no flow for many days in some years.

DISCHARGE MEASUREMENTS, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

Date	Time	Discharge (ft ³ /s)
Oct. 6	0925	22
Oct. 15	1210	9.2
Nov. 14	1550	8.9
Dec. 21	1015	9.2
Jan. 20	1330	5.0
Mar. 2	1146	35
Apr. 5	1050	71
Apr. 24	1320	65
May 11	0844	59
June 5	0833	211
July 5	0754	36
Aug. 3	0846	180
Sept. 6	0830	a

a Measurement not possible; flow too swift to wade, but too shallow for bridge measurement.

10256060 WHITEWATER RIVER AT WHITE WATER CUTOFF, AT WHITE WATER, CA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--

CHEMICAL DATA: Water years 1972-76, 1978 to current year.

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)	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 AD-SORP-TION RATIO	
											SODIUM PERCENT	
NOV 14...	1600	8.9	360	8.8	14.0	170	--	47	12	13	14	0.4
APR 24...	1450	65	320	8.7	21.0	150	4	42	10	10	13	0.4
DATE	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	BICAR-BONATE WATER WH IT FIELD MG/L AS HCO3	BICAR-BONATE WATER DIS IT FIELD MG/L AS HCO3	CAR-BONATE WATER WH IT FIELD MG/L AS CO3	CAR-BONATE WATER DIS IT FIELD MG/L AS CO3	ALKA-LINITY WAT WH TOT IT FIELD MG/L AS CACO3	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)	
NOV 14...	4.1	159	--	14	--	154	--	28	3.3	1.0	15	
APR 24...	3.6	--	171	--	1	--	142	23	2.3	0.80	13	
DATE	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)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P)	ARSENIC DIS-SOLVED (UG/L AS AS)	BORON, DIS-SOLVED (UG/L AS B)	IRON, DIS-SOLVED (UG/L AS FE)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)	
NOV 14...	221	217	0.30	0.020	0.330	<0.015	0.020	<1	20	4	1	
APR 24...	194	191	0.26	0.010	0.180	<0.015	<0.010	<1	10	<3	2	

10256500 SNOW CREEK NEAR WHITE WATER, CA

LOCATION.--Lat 33°52'14", long 116°40'49", in NW 1/4 NW 1/4 sec.33, T.3 S., R.3 E., Riverside County, Hydrologic Unit 18100200, on left bank at upstream side of Desert Water Agency Diversion Dam, 0.1 mi downstream from East Fork, and 4.4 mi southwest of White Water.

DRAINAGE AREA.--10.9 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--July to December 1921, May 1922 to February 1927, December 1927 to September 1931, October 1959 to current year. Yearly discharges for 1929-31, published in WSP 1314. Discharge records for Snow Creek Diversion (station 10256550) since October 1978, and those for creek only October 1978 through September 1988 available in files of the U.S. Geological Survey.

REVISED RECORDS.--WDR CA-89-1: Drainage area. WDR CA-90-1: 1980 Combined discharge. WDR CA-93-1: 1991.

GAGE.--Water-stage recorder and broad-crested weir on creek, non-recording flow meter on diversion. Elevation of gage is 2,000 ft above sea level, from topographic map. Prior to October 1931, at various sites within 500 ft of present site at different datums. October 1959 to Oct. 6, 1970, at site 40 ft upstream at present datum. Oct. 6, 1970, to Oct. 25, 1978, at site 290 ft upstream from diversion at present datum. Gage moved to present site 10 ft downstream from diversion Oct. 25, 1978.

REMARKS.--Records fair except for estimated daily discharges, which are poor. No regulation upstream from station. Diversion (station 10256550) 10 ft upstream, generally taking most of the base flow. For combined record of creek and diversion, see station 10256501. Published record prior to 1989 represents entire flow from basin (combined creek plus diversion prior to March 1927 and October 1978 to September 1988; creek only, upstream from diversion, December 1927 to September 1931 and October 1959 to September 1978). Both creek only and combined flow published beginning October 1989. Statistics for station 10256501 (combined flow) reflect equivalent total flow from basin. See schematic diagram of Salton Sea basin.

COOPERATION.--Records for diversion provided by Desert Water Agency.

EXTREMES FOR PERIOD OF RECORD (Combined creek and diversion).--Maximum discharge, 13,000 ft³/s, Jan. 25, 1969, gage height, 13.8 ft, from floodmarks, site and datum then in use, from rating curve extended above 55 ft³/s on basis of slope-area measurement of peak flow; minimum daily, 2.1 ft³/s, June 23-27, Sept. 5-11, 1961.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 100 ft³/s and maximum (*):

Date	Time	Creek only Discharge (ft ³ /s)	Gage height (ft)	Combined creek and diversion Discharge (ft ³ /s)
Jan. 10	1915	*1,100	*6.18	*1,100
Feb. 14	1000	616	5.22	616
Mar. 5	2115	989	5.98	989
Mar. 11	0915	346	4.49	346

Creek only: Minimum daily, 0.08 ft³/s, Nov. 1.

Combined creek and diversion: Minimum daily, 3.5 ft³/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	.22	.08	3.9	4.4	9.6	15	19	25	15	8.4	3.3	3.7
2	.22	1.4	3.9	4.4	12	14	19	23	15	7.6	3.2	8.5
3	.24	3.5	3.9	5.5	11	25	e19	19	15	7.3	3.1	10
4	1.3	3.5	3.9	8.1	11	35	e19	17	15	7.6	3.0	7.4
5	3.9	3.6	4.0	18	10	481	e18	19	15	7.6	2.8	6.5
6	3.0	3.7	4.1	7.8	11	311	20	21	14	7.7	2.7	6.9
7	.47	3.7	4.7	16	16	116	20	20	13	7.2	2.8	4.7
8	.28	3.7	4.9	104	17	75	20	16	12	7.1	2.8	2.6
9	.26	2.9	4.9	28	16	55	20	14	11	7.1	2.9	1.2
10	.29	4.0	4.9	206	15	53	16	14	11	7.0	2.6	1.2
11	.27	4.2	4.9	215	14	214	13	15	11	6.7	2.5	1.3
12	.19	3.9	2.0	127	13	104	13	16	12	6.2	6.1	1.2
13	1.2	3.8	.28	61	28	73	13	15	13	5.8	5.1	1.0
14	3.6	3.8	.28	35	364	63	13	15	12	5.5	2.5	1.1
15	3.5	3.8	.26	32	150	49	13	19	11	5.8	2.8	1.1
16	3.6	3.7	.23	23	77	41	17	18	17	11	2.7	1.2
17	1.6	3.8	.23	16	58	40	19	14	19	8.3	2.5	1.2
18	.34	3.8	.20	13	48	39	18	13	16	5.2	2.3	1.0
19	.33	3.8	.19	13	42	42	15	13	13	5.1	2.3	1.0
20	.33	3.8	.15	12	39	42	13	14	10	4.7	5.9	.93
21	.31	3.8	.14	12	29	49	12	14	9.5	4.4	8.4	.93
22	.29	3.5	2.1	11	22	43	11	14	9.2	4.3	6.8	.93
23	.29	3.8	5.0	11	21	45	11	14	9.2	4.2	3.8	.85
24	.23	3.8	5.3	16	19	39	11	14	9.5	4.1	3.1	.85
25	.15	3.8	7.3	35	21	35	11	14	9.8	4.0	2.7	1.4
26	.14	4.7	7.5	33	20	32	12	13	10	3.8	2.5	4.0
27	.11	4.5	6.2	19	18	23	12	14	9.5	3.8	2.3	4.0
28	.11	4.1	5.5	14	17	15	12	14	9.7	3.6	2.3	2.3
29	.14	3.5	5.4	13	---	15	15	14	9.4	3.6	2.2	.89
30	.12	3.9	4.6	12	---	17	22	14	8.9	3.6	2.1	.92
31	.13	---	4.4	9.4	---	18	---	14	---	3.5	2.1	---
TOTAL	27.16	107.88	105.26	1134.6	1128.6	2218	466	493	364.7	181.8	102.2	80.80
MEAN	.88	3.60	3.40	36.6	40.3	71.5	15.5	15.9	12.2	5.86	3.30	2.69
MAX	3.9	4.7	7.5	215	364	481	22	25	19	11	8.4	10
MIN	.11	.08	.14	4.4	9.6	14	11	13	8.9	3.5	2.1	.85
AC-FT	54	214	209	2250	2240	4400	924	978	723	361	203	160

e Estimated.

10256500 SNOW CREEK NEAR WHITE WATER, 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	2.58	2.72	4.25	26.2	38.0	24.1	12.5	12.4	7.22	3.92	3.28	2.42
MAX	6.55	6.32	9.32	131	173	71.5	24.7	27.0	17.6	10.8	6.20	6.02
(WY)	1993	1993	1993	1993	1980	1995	1993	1980	1980	1980	1992	1992
MIN	.88	.84	1.24	.99	3.38	3.79	3.22	1.94	.34	.000	.001	.17
(WY)	1995	1990	1990	1994	1991	1990	1989	1989	1989	1981	1981	1981

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR				FOR 1995 WATER YEAR				WATER YEARS 1979 - 1995			
ANNUAL TOTAL	1561.66				6410.00							
ANNUAL MEAN	4.28				17.6				11.5			
HIGHEST ANNUAL MEAN									28.4			
LOWEST ANNUAL MEAN									2.21			
HIGHEST DAILY MEAN	101				481				909			
LOWEST DAILY MEAN	.05				.08				.00			
ANNUAL SEVEN-DAY MINIMUM	.12				.12				.00			
INSTANTANEOUS PEAK FLOW					1100				1910			
INSTANTANEOUS PEAK STAGE					6.18				7.35			
INSTANTANEOUS LOW FLOW									.00			
ANNUAL RUNOFF (AC-FT)	3100				12710				8330			
10 PERCENT EXCEEDS	10				34				21			
50 PERCENT EXCEEDS	3.0				8.1				3.9			
90 PERCENT EXCEEDS	.22				.91				.43			

SALTON SEA BASIN

10256501 SNOW CREEK NEAR WHITE WATER, CA--Continued

SNOW CREEK AND SNOW CREEK DIVERSION NEAR WHITE WATER
 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	e3.5	e3.7	3.9	4.4	e12	15	19	e30	e20	e13	e7.8	e6.2
2	e3.5	e3.5	3.9	4.4	12	14	19	e28	e20	e12	e8.1	8.5
3	e3.5	3.5	3.9	5.5	11	25	e19	e24	e19	e12	e7.8	10
4	e4.7	3.5	3.9	8.1	11	35	e19	e22	e20	e12	e7.5	7.4
5	3.9	3.6	4.0	18	10	481	e18	19	e20	e12	e7.7	6.5
6	e6.0	3.7	4.1	7.8	11	311	20	21	e19	e12	e7.6	6.9
7	e4.0	3.7	4.7	16	16	116	20	20	e18	e12	e7.5	e6.9
8	e3.6	3.7	4.9	104	17	75	20	e20	e17	e12	e7.7	e7.0
9	e3.6	e3.9	4.9	28	16	55	20	e18	e16	e11	e7.8	e5.6
10	e3.6	4.0	4.9	206	15	53	e19	e19	e16	e11	e7.1	e5.7
11	e3.7	4.2	4.9	215	14	214	e18	e19	e16	e11	e7.2	e5.7
12	e3.5	3.9	e4.8	127	13	104	e18	e20	e17	e10	e7.1	e5.7
13	e3.5	3.8	e4.7	61	28	73	e18	e19	e18	e10	e7.3	e5.5
14	3.6	3.8	e4.5	35	364	63	e18	e19	e17	e10	e7.4	e5.6
15	3.5	3.8	e4.5	32	150	49	e18	19	e16	e10	e7.5	e5.5
16	3.6	3.7	e4.4	23	77	41	17	18	17	11	e7.2	e5.7
17	e3.6	3.8	e4.6	16	58	40	19	e18	19	e9.8	e6.8	e5.7
18	e3.6	3.8	e4.4	13	48	39	18	e17	16	e9.6	e7.1	e5.4
19	e3.7	3.8	e4.4	13	42	42	e18	e17	e16	e9.9	e7.1	e5.4
20	e3.7	3.8	e4.3	12	39	42	e18	e19	e15	e9.6	e7.5	e5.3
21	e3.7	3.8	e4.3	12	29	49	e17	e18	e14	e9.3	8.4	e5.2
22	e3.7	3.5	e4.2	11	22	43	e16	e18	e14	e9.0	e8.0	e4.9
23	e3.7	3.8	5.0	11	21	45	e16	e18	e14	e8.9	e8.3	e4.6
24	e3.6	3.8	5.3	16	19	39	e16	e18	e14	e8.8	e7.4	e4.4
25	e3.6	3.8	7.3	35	21	35	e16	e18	e14	e8.6	e7.4	e4.1
26	e3.6	4.7	7.5	33	20	32	e17	e18	e14	e8.4	e7.0	4.0
27	e3.6	4.5	6.2	19	18	e28	e17	e18	e14	e8.3	e7.0	4.0
28	e3.6	4.1	5.5	14	17	e20	e17	e18	e14	e8.3	e7.0	e4.2
29	e3.6	e4.0	5.4	13	---	e20	e18	e18	e14	e8.4	e6.6	e3.9
30	e3.6	3.9	4.6	12	---	17	e26	e18	e13	e8.1	e6.4	e4.0
31	e3.6	---	4.4	e11	---	18	---	e18	---	e8.2	e6.4	---
TOTAL	115.8	115.1	148.3	1136.2	1131	2233	549	604	491	314.2	228.7	169.5
MEAN	3.74	3.84	4.78	36.7	40.4	72.0	18.3	19.5	16.4	10.1	7.38	5.65
MAX	6.0	4.7	7.5	215	364	481	26	30	20	13	8.4	10
MIN	3.5	3.5	3.9	4.4	10	14	16	17	13	8.1	6.4	3.9
AC-FT	230	228	294	2250	2240	4430	1090	1200	974	623	454	336

e Estimated.

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1921 - 1995, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	4.82	7.50	10.8	15.6	16.8	14.8	13.0	12.9	9.35	6.37	5.43	5.41
MAX	10.7	82.5	76.7	178	173	72.0	36.7	45.7	37.6	20.2	20.7	32.5
(WY)	1984	1966	1967	1969	1980	1995	1969	1983	1983	1983	1983	1976
MIN	2.76	2.75	3.11	3.30	3.40	3.39	3.16	2.55	2.35	2.31	2.35	2.40
(WY)	1962	1963	1963	1961	1961	1961	1961	1961	1961	1961	1960	1961

SUMMARY STATISTICS

FOR 1994 CALENDAR YEAR

FOR 1995 WATER YEAR

WATER YEARS 1921 - 1995

ANNUAL TOTAL	2627.1	7235.8	
ANNUAL MEAN	7.20	19.8	10.4
HIGHEST ANNUAL MEAN			33.0
LOWEST ANNUAL MEAN			2.96
HIGHEST DAILY MEAN	102	Mar 19	481
LOWEST DAILY MEAN	3.1	Aug 21	3.5
ANNUAL SEVEN-DAY MINIMUM	3.2	Sep 6	3.6
INSTANTANEOUS PEAK FLOW			1100
INSTANTANEOUS PEAK STAGE			Jan 10
INSTANTANEOUS LOW FLOW			13000
ANNUAL RUNOFF (AC-FT)	5210	14350	7530
10 PERCENT EXCEEDS	11	34	17
50 PERCENT EXCEEDS	5.6	11	5.8
90 PERCENT EXCEEDS	3.5	3.7	3.2

10256500 SNOW CREEK NEAR WHITE WATER, CA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--

CHEMICAL DATA: Water years 1972-76, 1978 to current year.

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)	HARD- NESS TOTAL (MG/L AS CACO3)	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
NOV 14...	1245	3.8	110	8.2	9.5	34	12	1.0	8.9	35	0.7
APR 25...	0945	12	84	8.0	10.0	26	8.9	0.87	6.7	34	0.6
DATE	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	BICAR- BONATE WATER WH IT MG/L AS HCO3	BICAR- BONATE WATER DIS IT MG/L AS HCO3	CAR- BONATE WATER WH IT MG/L AS CO3	CAR- BONATE WATER DIS IT MG/L AS CO3	ALKA- LINITY WAT WH TOT IT FIELD MG/L AS CACO3	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)
NOV 14...	1.7	58	--	0	--	48	--	1.0	1.3	<0.10	18
APR 25...	1.7	--	39	--	0	--	32	0.90	1.4	<0.10	20
DATE	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)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P)	ARSENIC DIS- SOLVED (UG/L AS AS)	BORON, DIS- SOLVED (UG/L AS B)	IRON, DIS- SOLVED (UG/L AS FE)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)
NOV 14...	71	72	0.10	<0.010	<0.050	<0.015	<0.010	<1	20	8	<1
APR 25...	64	60	0.09	<0.010	<0.050	<0.015	0.010	<1	10	7	<1

10257500 FALLS CREEK NEAR WHITE WATER, CA

LOCATION.--Lat 33°52'10", long 116°40'15", in SW 1/4 NE 1/4 sec.33, T.3 S., R.3 E., Riverside County, Hydrologic Unit 18100200, on right bank at upstream side of Desert Water Agency Diversion Dam, 0.75 mi upstream from confluence with Snow Creek, and 4.4 mi southwest of White Water.

DRAINAGE AREA.--4.14 mi².

PERIOD OF RECORD.--September 1922 to January 1927, January 1928 to July 1931, and October 1994 to September 1995. Previous gage destroyed by flood of August 29, 1931. Monthly and yearly discharges for 1922-31, published in WSP 1314. Discharge records for Falls Creek Diversion (station 10257499) since October 1994 available in files of the U.S. Geological Survey.

GAGE.--Water-stage recorder and broad-crested weir on creek, non-recording flow meter on diversion. Elevation of gage is 1,940 ft above sea level, from topographic map.

REMARKS.--Records poor. No regulation upstream from station. Diversion (station 10257499) immediately upstream takes a varying portion of the base flow. For combined record of creek and diversion, see station 10257501. Published record prior to 1995 represents entire flow from basin. Records for the period 1922-1931 (prior to construction of diversion) are equivalent to those for station 10257501. Both creek only and combined flow published beginning October 1994. Statistics for station 10257501 (combined flow) reflect equivalent total flow from basin. See schematic diagram of Salton Sea basin.

COOPERATION.--Records for diversion provided by Desert Water Agency.

EXTREMES FOR PERIOD OF RECORD (Combined creek and diversion).-- Maximum discharge, 154 ft³/s, Jan. 10, 1995, gage height, 6.14 ft (creek gage; no diversion at peak), from rating curve extended above 4 ft³/s on basis of critical depth computations; minimum daily, 0.40 ft³/s, several days in 1924, 1925, and 1931.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 50 ft³/s and maximum (*), from rating curve extended as noted above:

Date	Time	Creek only Discharge (ft ³ /s)	Gage height (ft)	Combined creek and diversion Discharge (ft ³ /s)
Jan. 10	1915	*154	*6.14	*154
Feb. 14	1730	53	5.35	53
Mar. 5	2030	125	5.84	125
Mar. 11	0930	86	5.62	86

Creek only: Minimum daily, 0.18 ft³/s, Oct. 9.

Combined creek and diversion: Minimum daily, 0.48 ft³/s, Oct. 2, 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	.21	e.80	e.91	.74	e2.7	e2.8	e3.1	7.0	3.6	2.2	1.4	1.4
2	.20	e.80	e.91	.73	e2.8	e2.7	e3.1	5.4	3.7	2.0	1.4	2.7
3	.21	e.81	e.93	.93	e2.6	e3.1	e3.0	4.1	3.4	1.9	1.3	2.0
4	.40	e.84	e.90	e1.2	2.7	e15	e2.9	3.7	3.0	2.1	1.4	1.8
5	.73	e.86	e.89	e1.8	2.4	e50	e2.9	4.1	3.2	2.3	1.3	1.7
6	.70	e.86	e.87	e1.5	1.8	e28	3.0	4.5	2.8	2.3	1.3	1.7
7	.51	e.88	e.86	e1.8	1.5	e10	3.1	4.0	2.4	2.3	1.3	1.7
8	.20	e.90	e.84	e9.9	1.4	e6.8	3.2	3.3	2.4	2.1	1.3	1.2
9	.18	e.92	e.82	e2.5	1.3	e5.0	3.1	2.9	2.3	2.1	1.2	.97
10	.20	e.90	e.83	e35	1.2	e4.7	2.7	3.1	2.4	2.1	1.2	.99
11	.22	e.95	e.82	e20	1.1	e40	2.3	3.5	2.6	2.0	1.3	.97
12	.24	e.97	e.38	e12	.99	e28	2.3	4.1	3.1	1.9	1.8	.95
13	.40	e.97	e.32	e5.8	1.5	e7.0	2.3	4.1	3.0	1.8	1.7	.91
14	.68	e.95	e.32	e3.3	28	e6.2	2.4	4.2	2.7	1.8	1.2	.94
15	.66	.94	e.33	e2.9	16	e4.5	2.0	4.1	2.6	1.9	1.3	.94
16	.71	.90	e.31	e2.6	10	e3.7	2.9	3.8	3.0	2.8	1.2	1.0
17	.71	.88	e.31	e2.5	7.8	e3.6	3.0	3.1	3.1	2.2	1.2	.94
18	e.34	.90	e.30	e2.3	6.2	e3.4	2.8	2.9	2.9	1.8	1.2	.91
19	e.32	.96	e.30	e2.3	4.7	e3.4	2.3	3.3	2.4	1.8	1.2	.85
20	e.30	.96	e.30	e2.2	3.8	e3.9	1.8	3.6	2.1	1.8	1.9	.83
21	e.35	.91	e.32	e2.1	e3.6	e4.4	1.8	3.6	2.5	1.6	2.2	.85
22	e.35	.91	.57	e2.2	e3.4	e3.6	1.7	3.3	2.8	1.5	1.7	.85
23	e.37	.91	1.4	e2.5	e3.0	e4.9	2.0	3.3	2.6	1.4	1.3	.81
24	e.40	.90	1.1	e2.8	e3.0	e3.8	2.1	3.0	2.4	1.4	1.3	.78
25	e.40	e.92	1.5	e3.3	e2.9	e3.6	2.0	2.9	2.4	1.4	1.2	.92
26	e.41	e1.0	1.4	e3.0	e3.0	e3.4	2.1	2.7	2.6	1.4	1.1	1.4
27	e.41	e.90	1.0	e2.9	e2.8	e3.3	2.3	2.9	2.4	1.4	1.1	1.4
28	e.41	e.88	.88	e2.8	e2.8	e3.1	2.4	2.9	2.5	1.5	1.1	1.1
29	e.40	e.91	.83	e2.8	---	e3.1	3.4	3.0	2.5	1.5	1.0	.89
30	e.40	e.91	.77	e2.9	---	e3.2	6.3	3.1	2.2	1.5	1.0	.86
31	e.40	---	.74	e2.7	---	e3.2	---	3.1	---	1.4	1.1	---
TOTAL	12.42	27.10	22.96	142.00	124.99	271.4	80.3	112.6	81.6	57.2	41.2	35.26
MEAN	.40	.90	.74	4.58	4.46	8.75	2.68	3.63	2.72	1.85	1.33	1.18
MAX	.73	1.0	1.5	.35	.28	.50	6.3	7.0	3.7	2.8	2.2	2.7
MIN	.18	.80	.30	.73	.99	2.7	1.7	2.7	2.1	1.4	1.0	.78
AC-FT	25	54	46	282	248	538	159	223	162	113	82	70

e Estimated.

10257500 FALLS CREEK NEAR WHITE WATER, 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	1.36	1.56	2.12	2.18	2.01	2.44	2.57	2.23	1.57	1.10	1.08	1.13
MAX	2.52	2.81	5.68	4.58	4.46	8.75	7.90	4.25	2.78	2.37	2.67	2.23
(WY)	1923	1923	1927	1995	1995	1995	1926	1926	1926	1926	1926	1926
MIN	.40	.76	.74	.99	.91	1.23	1.22	1.18	.79	.55	.50	.53
(WY)	1995	1929	1995	1929	1929	1931	1928	1928	1928	1931	1928	1928

SUMMARY STATISTICS

FOR 1995 WATER YEAR

WATER YEARS 1923 - 1995

ANNUAL TOTAL	1009.03		
ANNUAL MEAN	2.76	1.85	
HIGHEST ANNUAL MEAN		2.77	1926
LOWEST ANNUAL MEAN		.99	1929
HIGHEST DAILY MEAN	50	Mar 5	50
LOWEST DAILY MEAN	.18	Oct 9	.18
ANNUAL SEVEN-DAY MINIMUM	.28	Oct 7	.28
INSTANTANEOUS PEAK FLOW	154	Jan 10	154
INSTANTANEOUS PEAK STAGE	6.14	Jan 10	6.14
ANNUAL RUNOFF (AC-FT)	2000		1340
10 PERCENT EXCEEDS	3.9		2.9
50 PERCENT EXCEEDS	1.8		1.4
90 PERCENT EXCEEDS	.62		.60

SALTON SEA BASIN

10257501 FALLS CREEK NEAR WHITE WATER, CA--Continued

FALLS CREEK AND FALLS CREEK DIVERSION NEAR WHITE WATER
 COMBINED DISCHARGE, IN CUBIC FEET PER SECOND,
 WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
 DAILY MEAN VALUES

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.49	e.80	e.91	.74	e2.7	e2.8	e3.1	e7.5	e3.7	e2.7	e1.9	e1.6
2	e.48	e.80	e.91	.73	e2.8	e2.7	e3.1	e5.9	e3.8	e2.5	e1.9	2.7
3	e.49	e.81	e.93	.93	e2.6	e3.1	e3.0	e4.6	e3.7	e2.4	e1.8	2.0
4	e.68	e.84	e.90	e1.2	2.7	e15	e2.9	e4.2	e3.4	e2.6	e1.9	1.8
5	.73	e.86	e.89	e1.8	2.4	e50	e2.9	4.1	e3.6	e2.8	e1.8	1.7
6	e.85	e.86	e.87	e1.5	1.8	e28	3.0	4.5	e3.2	e2.8	e1.8	1.7
7	e.80	e.88	e.86	e1.8	e1.7	e10	3.1	4.0	e2.8	e2.8	e1.8	1.7
8	e.50	e.90	e.84	e9.9	e1.7	e6.8	3.2	e3.8	e2.8	e2.6	e1.8	e1.7
9	e.48	e.92	e.82	e2.5	e1.6	e5.0	3.1	e3.4	e2.7	e2.6	e1.7	e1.5
10	e.51	e.90	e.83	e35	e1.6	e4.7	e2.8	e3.6	e2.8	e2.6	e1.7	e1.5
11	e.53	e.95	e.82	e20	e1.5	e40	e2.8	e3.5	e3.0	e2.5	e1.8	e1.5
12	e.56	e.97	e.83	e12	e1.5	e28	e2.8	e4.1	e3.5	e2.4	1.8	e1.5
13	e.72	e.97	e.77	e5.8	e1.7	e7.0	e2.8	e4.1	e3.4	e2.3	e1.8	e1.4
14	.68	e.95	e.77	e3.3	28	e6.2	e2.9	e4.2	e3.1	e2.3	e1.7	e1.4
15	.66	.94	e.78	e2.9	16	e4.5	e2.5	4.1	e3.0	e2.4	e1.8	e1.4
16	.71	.90	e.76	e2.6	10	e3.7	2.9	3.8	e3.1	2.8	e1.7	e1.5
17	e.81	.88	e.76	e2.5	7.8	e3.6	3.0	e3.6	3.1	e2.5	e1.7	e1.4
18	e.68	.90	e.75	e2.3	6.2	e3.4	2.8	e3.4	2.9	e2.3	e1.7	e1.4
19	e.66	.96	e.75	e2.3	4.7	e3.4	e2.8	e3.8	e2.7	e2.3	e1.7	e1.3
20	e.65	.96	e.75	e2.2	3.8	e3.9	e2.3	e4.1	e2.5	e2.3	1.9	e1.3
21	e.70	.91	e.77	e2.1	e3.6	e4.4	e2.3	e4.1	e2.7	e2.1	2.2	e1.3
22	e.71	.91	e.77	e2.2	e3.4	e3.6	e2.2	e3.8	e2.8	e2.0	e2.1	e1.3
23	e.73	.91	1.4	e2.5	e3.0	e4.9	e2.4	e3.8	e2.8	e1.9	e1.8	e1.3
24	e.77	.90	1.1	e2.8	e3.0	e3.8	e2.5	e3.5	e2.8	e1.9	e1.8	e1.3
25	e.77	e.92	1.5	e3.3	e2.9	e3.6	e2.4	e3.4	e2.8	e1.9	e1.7	e1.4
26	e.79	e1.0	1.4	e3.0	e3.0	e3.4	e2.6	e3.1	e2.9	e1.9	e1.6	1.4
27	e.79	e.90	1.0	e2.9	e2.8	e3.3	e2.8	e3.3	e2.7	e1.9	e1.6	1.4
28	e.80	e.88	.88	e2.8	e2.8	e3.1	e2.9	e3.3	e2.8	e2.0	e1.6	e1.3
29	e.80	e.91	.83	e2.8	---	e3.1	3.4	e3.4	e2.8	e2.0	e1.5	e1.4
30	e.80	e.91	.77	e2.9	---	e3.2	6.3	e3.5	e2.7	e2.0	e1.5	e1.4
31	e.81	---	.74	e2.7	---	e3.2	---	e3.5	---	e1.9	e1.6	---
TOTAL	21.14	27.10	27.66	142.00	127.3	271.4	87.6	123.0	90.6	72.0	54.7	45.5
MEAN	.68	.90	.89	4.58	4.55	8.75	2.92	3.97	3.02	2.32	1.76	1.52
MAX	.85	1.0	1.5	.35	.28	.50	6.3	7.5	3.8	2.8	2.2	2.7
MIN	.48	.80	.74	.73	1.5	2.7	2.2	3.1	2.5	1.9	1.5	1.3
AC-FT	42	54	55	282	252	538	174	244	180	143	108	90

e Estimated.

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	.68	.90	.89	4.58	4.55	8.75	2.92	3.97	3.02	2.32	1.76	1.52
MAX	.68	.90	.89	4.58	4.55	8.75	2.92	3.97	3.02	2.32	1.76	1.52
(WY)	1995	1995	1995	1995	1995	1995	1995	1995	1995	1995	1995	1995
MIN	.68	.90	.89	4.58	4.55	8.75	2.92	3.97	3.02	2.32	1.76	1.52
(WY)	1995	1995	1995	1995	1995	1995	1995	1995	1995	1995	1995	1995

SUMMARY STATISTICS

FOR 1995 WATER YEAR

ANNUAL TOTAL	1090.00
ANNUAL MEAN	2.99
HIGHEST DAILY MEAN	50
LOWEST DAILY MEAN	.48
ANNUAL SEVEN-DAY MINIMUM	.57
INSTANTANEOUS PEAK FLOW	154
ANNUAL RUNOFF (AC-FT)	2160
10 PERCENT EXCEEDS	4.1
50 PERCENT EXCEEDS	2.3
90 PERCENT EXCEEDS	.79

10257550 WHITEWATER RIVER AT WINDY POINT, NEAR WHITE WATER, CA

LOCATION.--Lat 33°53'56", long 116°37'13", in SW 1/4 NE 1/4 sec.24, T.3 S., R.3 E., Riverside County, Hydrologic Unit 18100200, on right bank 200 ft north of Highway 111, 2.0 mi southeast of White Water, and 3.8 mi east of the junction of Highway 111 and Interstate 10.

DRAINAGE AREA.--264 mi².

PERIOD OF RECORD.--October 1984 to September 1987, October 1989 to current year. Discharge measurements only, October 1987 to September 1989. Discharge measurements for the period July 1982 to September 1984 available in files of the U.S. Geological Survey.

REVISED RECORDS.--WDR CA-88-1: Drainage area.

GAGE.--Water-stage recorder and concrete control; auxiliary water-stage recorder on overflow channel since January 23, 1992. Elevation of gage is 1,040 ft above sea level, from topographic map.

REMARKS.--Records poor. Imported water is released to the Whitewater River from the Colorado River Aqueduct at a point 2.75 mi upstream for ground-water recharge in the upper Coachella Valley. Water is diverted out of the basin 18.5 mi upstream to powerplants in the San Geronio River basin and then to an area north of Banning for irrigation. See schematic diagram of Salton Sea basin.

COOPERATION.--Records of diversion out of basin provided by Southern California Edison Co. Records of Colorado River Aqueduct releases provided by Coachella Valley Water District (from Metropolitan Water District's monthly reports).

EXTREMES FOR PERIOD OF RECORD.--Maximum computed discharge, 2,530 ft³/s, Jan. 10, 1995, gage height, 8.32 ft, main channel, from rating curve extended above 400 ft³/s on basis of critical-depth computation (flow in overflow channel at peak); maximum probably exceeded during flood of Jan. 16, 1993, but discharge is unknown; no flow for several days in most years.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 2,530 ft³/s, Jan. 10, gage height in main channel, 8.32 ft, from rating curve extended above 400 ft³/s on basis of critical-depth computation (flow in overflow channel at peak); no flow Jan. 14-24.

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	e4.6	e4.5	3.4	119	13	98	75	96	5.9	163	161
2	2.6	e4.8	e4.1	3.4	121	11	142	75	104	6.5	172	150
3	4.1	e4.7	e4.0	4.0	124	16	149	50	108	5.0	144	159
4	7.8	e4.5	e3.8	55	127	8.0	135	49	109	7.2	176	142
5	11	e4.6	e3.6	62	126	130	153	57	123	9.7	175	143
6	24	e4.6	e3.5	34	126	169	92	67	222	31	169	139
7	24	e4.8	e3.6	40	126	66	72	69	205	128	153	140
8	22	e4.7	e3.5	126	126	44	81	63	189	217	159	115
9	17	e5.0	e3.3	47	130	42	72	35	173	213	172	81
10	16	e5.8	e3.4	279	128	34	82	49	180	211	173	128
11	14	e5.0	e3.4	140	121	125	81	37	173	204	172	122
12	12	e4.8	e3.2	16	121	71	81	38	165	204	173	140
13	9.8	e4.6	3.2	1.9	128	72	76	72	167	186	168	140
14	16	e4.6	3.2	.00	363	91	74	96	165	209	163	122
15	20	e4.6	2.8	.00	88	96	68	92	166	208	169	134
16	14	e4.7	2.1	.00	19	134	69	78	180	208	162	132
17	6.7	e4.5	2.5	.00	4.2	103	68	78	202	206	127	129
18	5.1	e4.6	2.3	.00	5.3	88	69	65	193	207	162	128
19	3.9	e4.8	1.8	.00	6.4	43	64	69	190	205	153	130
20	6.2	e4.7	1.8	.00	6.7	37	72	60	191	204	132	129
21	4.9	e4.8	1.5	.00	15	20	116	60	192	199	157	130
22	4.3	e4.9	1.9	.00	10	89	120	51	195	199	163	133
23	3.9	e5.0	2.2	.00	5.7	96	129	55	191	172	179	132
24	5.0	e5.0	3.0	.00	8.4	89	96	50	190	199	179	130
25	4.5	e5.1	9.4	53	6.7	77	106	46	194	198	178	129
26	e4.5	e7.2	10	88	12	73	50	50	193	195	157	130
27	e4.6	e6.8	2.5	81	10	77	60	55	193	190	169	131
28	e4.4	e5.2	2.2	86	17	101	60	62	194	129	172	127
29	e4.4	e5.0	2.1	114	---	147	45	66	201	99	169	132
30	e4.5	e4.8	2.7	120	---	224	55	51	139	187	168	138
31	e4.6	---	3.2	118	---	85	---	24	---	182	166	---
TOTAL	293.0	148.8	104.3	1471.70	2200.4	2471.0	2635	1844	5183	4824.3	5094	3976
MEAN	9.45	4.96	3.36	47.5	78.6	79.7	87.8	59.5	173	156	164	133
MAX	24	7.2	10	279	363	224	153	96	222	217	179	161
MIN	2.6	4.5	1.5	.00	4.2	8.0	45	24	96	5.0	127	81
AC-FT	581	295	207	2920	4360	4900	5230	3660	10280	9570	10100	7890
a	0	0	0	1940	4900	0	0	0	10150	7870	10150	9750
b	186	102	123	0	54	0	0	208	257	307	347	296

e Estimated.

a Discharge, in acre-feet, of imported water released to river 2.75 mi upstream.

b Discharge, in acre-feet, diverted out of basin 18.5 mi upstream.

10257550 WHITEWATER RIVER AT WINDY POINT, NEAR WHITE WATER, 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	131	136	115	158	140	146	120	75.4	97.0	84.5	87.1	117
MAX	596	499	477	598	595	445	316	314	423	417	378	463
(WY)	1987	1987	1987	1987	1987	1987	1986	1986	1986	1986	1986	1986
MIN	.025	.000	.000	.000	3.16	3.97	.026	.000	.000	.000	.000	.000
(WY)	1992	1992	1990	1992	1991	1989	1991	1987	1987	1989	1987	1991

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR				FOR 1995 WATER YEAR				WATER YEARS 1985 - 1995			
ANNUAL TOTAL	19877.05				30245.50							
ANNUAL MEAN	54.5				82.9				128			
HIGHEST ANNUAL MEAN									308			
LOWEST ANNUAL MEAN									11.9			
HIGHEST DAILY MEAN	371 Feb 17				363 Feb 14				2600 Jan 7 1993			
LOWEST DAILY MEAN	.43 Aug 10				.00 Jan 14				.00 Mar 4 1985			
ANNUAL SEVEN-DAY MINIMUM	1.1 Aug 5				.00 Jan 14				.00 Feb 16 1986			
INSTANTANEOUS PEAK FLOW					2530 Jan 10				2530 Jan 10 1995			
INSTANTANEOUS PEAK STAGE					(a) 8.32 Jan 10				(a) 8.32 Jan 10 1995			
ANNUAL RUNOFF (AC-FT)	39430				59990				92620			
10 PERCENT EXCEEDS	179				189				352			
50 PERCENT EXCEEDS	8.5				72				10			
90 PERCENT EXCEEDS	1.6				3.5				.00			

(a) Peak stage in main channel; portion of flow occurred in overflow channel.

10257600 MISSION CREEK NEAR DESERT HOT SPRINGS, CA

LOCATION.--Lat 34°00'40", long 116°37'38", in NE 1/4 SW 1/4 sec.12, T.2 S., R.3 E., Riverside County, Hydrologic Unit 18100200, in Mission Creek Indian Reservation, 0.6 mi downstream from West Fork, and 6.8 mi northwest of Desert Hot Springs.

RAINAGE AREA.--35.7 mi².

PERIOD OF RECORD.--October 1967 to current year.

AGE.--Water-stage recorder, crest-stage gage, and concrete scour limiter since November 1988. Elevation of gage is 2,400 ft above sea level, from topographic map.

REMARKS.--No estimated daily discharges. Records good. Slight regulation of low flow by two small dams with a combined capacity of about 3 acre-ft, 2 mi upstream from station. See schematic diagram of Salton Sea basin.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,750 ft³/s, Aug. 17, 1983, gage height, 3.33 ft on basis of slope-conveyance study of peak flow; maximum gage height, 6.40 ft, Jan. 25, 1969; maximum gage height since November 1988, 5.80 ft from crest-stage gage, Jan. 16, 1993, discharge not determined; no flow for many days in most years.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 50 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Jan. 10	1945	*56	*2.53	Feb. 14	1130	50	2.48

Minimum daily, 0.58 ft³/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	.63	.84	1.3	1.3	5.2	8.0	13	11	6.0	4.0	2.7	1.2
2	.58	.91	1.3	1.3	4.6	8.5	13	11	6.2	4.2	2.6	1.4
3	.61	1.0	1.3	1.6	4.7	8.7	13	11	5.9	4.2	2.5	1.5
4	.71	1.0	1.3	3.7	4.9	8.7	13	10	5.4	3.9	2.5	1.2
5	.96	1.0	1.3	6.0	4.7	11	13	11	5.3	3.8	2.2	1.3
6	.89	.99	1.3	3.0	4.8	17	13	12	5.4	3.8	1.6	1.2
7	.81	.98	1.3	4.4	4.8	13	13	11	6.1	3.7	1.5	3.1
8	.73	.99	1.3	9.8	5.0	11	14	10	5.9	3.4	1.2	3.1
9	.71	.98	1.5	6.1	5.2	10	14	9.8	5.4	3.3	1.2	2.8
10	.69	1.0	1.2	17	5.1	10	14	9.5	5.1	3.4	1.4	2.6
11	.71	1.1	1.2	17	5.1	21	13	9.2	4.9	3.5	1.6	2.6
12	.70	1.1	1.2	6.2	5.3	15	13	9.2	4.5	3.5	1.7	2.5
13	.82	1.1	1.2	2.7	7.1	13	13	9.5	4.4	3.7	1.6	2.3
14	.92	1.1	1.2	1.4	31	13	14	9.4	4.4	3.6	1.6	2.3
15	.90	1.1	1.3	1.1	19	14	13	9.0	4.8	3.5	1.7	2.2
16	.92	1.1	1.2	1.3	12	14	14	8.9	6.0	4.4	1.6	2.3
17	.92	1.1	1.1	1.0	9.6	14	13	8.6	5.8	3.9	1.6	2.2
18	.92	1.1	1.1	.88	8.8	14	13	8.0	5.1	3.6	1.7	2.2
19	.91	1.1	1.1	.80	7.7	14	13	7.6	4.8	3.5	1.6	2.2
20	.87	1.1	1.1	.75	7.7	15	13	7.4	4.5	3.5	2.0	2.2
21	.83	1.1	1.1	.96	7.9	15	13	7.4	4.7	3.7	2.0	2.1
22	.82	1.2	1.1	1.0	7.9	15	12	7.1	4.4	3.6	1.9	2.1
23	.82	1.2	1.2	1.4	7.8	16	12	7.2	4.2	3.4	1.8	2.0
24	.80	1.2	1.4	2.3	7.9	15	12	7.1	4.1	3.2	1.7	2.0
25	.81	1.2	1.4	10	8.5	14	11	7.1	3.9	3.1	1.6	2.0
26	.81	1.2	1.3	9.1	8.1	14	11	6.7	3.8	3.0	1.6	2.0
27	.79	1.2	1.3	7.2	8.1	14	11	6.6	3.8	2.7	1.6	2.1
28	.80	1.2	1.3	7.2	7.8	13	11	7.0	3.8	2.6	1.5	2.2
29	.81	1.3	1.3	6.6	---	14	11	7.0	3.8	2.8	1.2	2.4
30	.81	1.3	1.3	6.4	---	13	11	6.5	3.8	2.9	1.2	2.3
31	.82	---	1.3	5.8	---	13	---	6.1	---	2.8	1.1	---
TOTAL	24.83	32.79	38.8	145.29	226.3	408.9	380	268.9	146.2	108.2	53.3	63.6
EAN	.80	1.09	1.25	4.69	8.08	13.2	12.7	8.67	4.87	3.49	1.72	2.12
AX	.96	1.3	1.5	17	31	21	14	12	6.2	4.4	2.7	3.1
IN	.58	.84	1.1	.75	4.6	8.0	11	6.1	3.8	2.6	1.1	1.2
C-FT	49	65	77	288	449	811	754	533	290	215	106	126

10257600 MISSION CREEK NEAR DESERT HOT SPRINGS, 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	.90	1.15	1.21	3.87	9.65	7.55	6.12	4.99	3.22	2.16	1.66	1.03
MAX	3.83	4.54	4.51	29.2	174	49.6	31.6	25.8	16.4	10.1	5.42	4.74
(WY)	1970	1984	1979	1980	1980	1980	1993	1993	1993	1980	1983	1993
MIN	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
(WY)	1968	1969	1969	1968	1968	1989	1968	1968	1968	1972	1968	1968

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR				FOR 1995 WATER YEAR				WATER YEARS 1968 - 1995			
ANNUAL TOTAL	887.01				1897.11							
ANNUAL MEAN	2.43				5.20				3.59			
HIGHEST ANNUAL MEAN									28.3			
LOWEST ANNUAL MEAN									.000			
HIGHEST DAILY MEAN	19 Feb 7				31 Feb 14				540 Feb 18 1980			
LOWEST DAILY MEAN	.43 Sep 28				.58 Oct 2				.00 Oct 1 1967			
ANNUAL SEVEN-DAY MINIMUM	.50 Sep 23				.74 Oct 7				.00 Oct 1 1967			
INSTANTANEOUS PEAK FLOW					56 Jan 10				1750 Aug 17 1983			
INSTANTANEOUS PEAK STAGE					2.53 Jan 10				5.80 Jan 16 1993			
ANNUAL RUNOFF (AC-FT)	1760				3760				2600			
10 PERCENT EXCEEDS	4.6				13				7.5			
50 PERCENT EXCEEDS	1.3				3.5				.65			
90 PERCENT EXCEEDS	.63				.96				.00			

10257720 CHINO CANYON CREEK BELOW TRAMWAY, NEAR PALM SPRINGS, CA

LOCATION.--Lat 33°50'39", long 116°36'16", in NW 1/4 NE 1/4 sec.7, T.4 S., R.4 E., Riverside County, Hydrologic Unit 18100200, on left bank 0.5 mi downstream from tram building, 3.5 mi west of Highway 111 on road leading to Palm Springs aerial tramway, and 5.5 mi west of Palm Springs.

RAINAGE AREA.--4.71 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1986 to current year.

REVISED RECORDS.--WDR CA-89-1: 1987(M).

GAGE.--Water-stage recorder. Elevation of gage is 2,100 ft above sea level, from topographic map.

REMARKS.--Records poor. Two small diversions 2 mi upstream, one for city of Palm Springs and one for Palm Springs aerial tramway. See schematic diagram of Salton Sea basin.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 153 ft³/s, Jan. 7, 1993, gage height, 10.18 ft, from rating curve extended above 35 ft³/s on basis of critical depth computation; no flow for many days in some years.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 30 ft³/s, Jan. 10, Mar. 5, gage height, 9.00 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	.00	.00	.00	.15	e3.5	3.1	5.0	3.1	.58	.13	.00	.00
2	.00	.00	.00	.16	e3.4	3.1	4.6	3.1	.57	.12	.00	1.1
3	.00	.02	.00	.43	e3.3	3.3	4.6	2.6	.57	.13	.00	1.4
4	.00	.03	.08	2.4	e3.2	3.5	4.3	2.5	.56	.09	.00	.83
5	.00	.00	.12	3.6	e3.1	10	3.9	2.5	.50	.08	.00	.66
6	.00	.00	.11	3.2	e3.0	12	3.3	2.7	.51	.09	.00	.74
7	.00	.02	.17	1.9	e2.9	6.3	3.1	3.1	.54	.08	.00	.82
8	.00	.08	.12	4.2	e2.8	7.5	3.1	3.1	.57	.06	.00	.70
9	.00	.04	.00	3.2	e2.7	7.9	3.5	2.7	.49	.05	.00	.72
10	.00	.03	.01	8.5	e2.6	6.7	3.4	1.7	.44	.04	.00	.66
11	.00	.03	.00	6.7	e2.6	15	3.1	1.7	.40	.03	.00	.73
12	.00	.02	.00	5.9	e2.4	6.5	3.1	1.6	.37	.04	.00	.66
13	.00	.01	.00	5.9	e2.5	4.1	3.1	1.8	.37	.04	.00	.61
14	.01	.01	.02	5.9	e8.0	4.9	3.1	1.5	.37	.03	.00	.66
15	.00	.00	.01	5.2	e6.2	6.4	3.4	1.5	.99	.02	.00	.66
16	.00	.03	.00	4.6	e5.8	7.1	3.9	1.3	3.4	.60	.00	.77
17	.00	.06	.00	4.6	e5.0	7.2	4.0	1.0	3.2	.57	.00	.66
18	.00	.05	.00	3.5	e4.6	6.3	3.8	1.0	2.7	.57	.00	.64
19	.00	.07	.00	3.5	e4.3	5.9	3.5	1.0	2.3	.27	.00	.87
20	.00	.07	.00	2.5	4.0	5.9	3.5	1.0	1.4	.05	.00	.87
21	.00	.08	.00	2.5	4.0	5.9	3.6	1.0	.38	.04	.00	.71
22	.00	.09	.03	2.5	4.0	5.9	3.5	1.1	.32	.03	.00	.65
23	.00	.17	.10	2.5	3.5	5.9	3.5	1.0	.27	.02	.00	.66
24	.00	.15	.11	4.3	3.5	5.9	3.5	1.0	.23	.01	.00	.79
25	.00	.13	.32	5.9	3.5	5.9	3.3	1.0	.20	.01	.00	.73
26	.00	.11	.28	5.9	3.1	5.6	3.1	1.0	.20	.01	.00	.73
27	.00	.19	.20	5.2	3.1	5.2	3.1	1.0	.17	.00	.00	.74
28	.00	.11	.20	4.6	3.1	5.2	3.1	.84	.15	.00	.00	.86
29	.00	.00	.32	e4.0	---	5.2	3.1	.66	.14	.00	.00	.76
30	.00	.00	.24	e3.8	---	5.2	3.1	.66	.13	.00	.00	.80
31	.00	---	.20	e3.6	---	5.2	---	.59	---	.00	.00	---
TOTAL	0.01	1.60	2.64	120.84	103.7	193.8	106.2	50.35	23.02	3.21	0.00	22.19
MEAN	.000	.053	.085	3.90	3.70	6.25	3.54	1.62	.77	.10	.000	.74
MAX	.01	.19	.32	8.5	8.0	15	5.0	3.1	3.4	.60	.00	1.4
MIN	.00	.00	.00	.15	2.4	3.1	3.1	.59	.13	.00	.00	.00
3-FT	.02	3.2	5.2	240	206	384	211	100	46	6.4	.00	44

e Estimated.

10257720 CHINO CANYON CREEK BELOW TRAMWAY, NEAR PALM SPRINGS, CA--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1987 - 1995, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	.35	.46	.46	2.47	3.15	2.59	1.59	.75	.28	.060	.12	.27
MAX	1.19	1.32	1.49	14.0	17.8	8.82	3.85	2.09	.77	.28	.65	1.38
(WY)	1994	1987	1994	1993	1993	1993	1993	1993	1995	1987	1993	1993
MIN	.000	.000	.000	.031	.096	.28	.11	.057	.000	.000	.000	.000
(WY)	1991	1991	1991	1991	1991	1989	1989	1989	1992	1989	1990	1990
SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR					FOR 1995 WATER YEAR				WATER YEARS 1987 - 1995		
ANNUAL TOTAL	331.56					627.56						
ANNUAL MEAN	.91					1.72				1.03		
HIGHEST ANNUAL MEAN										4.02		
LOWEST ANNUAL MEAN										.19		
HIGHEST DAILY MEAN	7.5 Mar 20					15 Mar 11				49 Jan 17 1993		
LOWEST DAILY MEAN	.00 Jul 14					.00 Oct 1				.00 Jun 15 1989		
ANNUAL SEVEN-DAY MINIMUM	.00 Jul 14					.00 Oct 1				.00 Jun 15 1989		
INSTANTANEOUS PEAK FLOW						30 Jan 10				153 Jan 7 1993		
INSTANTANEOUS PEAK STAGE						9.00 Jan 10				10.18 Jan 7 1993		
ANNUAL RUNOFF (AC-FT)	658					1240				749		
10 PERCENT EXCEEDS	3.1					5.2				2.5		
50 PERCENT EXCEEDS	.22					.60				.29		
90 PERCENT EXCEEDS	.00					.00				.00		

10257720 CHINO CANYON CREEK BELOW TRAMWAY, NEAR PALM SPRINGS, CA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--

CHEMICAL DATA: Water years 1987 to current year.

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)	HARD- NESS TOTAL (MG/L AS CACO3)	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
NOV 17...	0845	0.10	230	8.4	6.5	88	30	3.1	11	20	0.5
APR 24...	1850	3.5	220	8.5	15.0	84	29	2.9	9.7	19	0.5
DATE	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	BICAR- BONATE WATER WH IT FIELD MG/L AS HCO3	BICAR- BONATE WATER DIS IT FIELD MG/L AS HCO3	CAR- BONATE WATER WH IT FIELD MG/L AS CO3	CAR- BONATE WATER DIS IT FIELD MG/L AS CO3	ALKA- LINITY WAT WH TOT IT FIELD MG/L AS CACO3	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)
NOV 17...	6.8	122	--	4	--	106	--	6.2	3.1	<0.10	19
APR 24...	5.3	--	117	--	5	--	104	6.1	2.4	<0.10	18
DATE	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, SUM OF CONSTITUENTS, 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)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P)	ARSENIC DIS- SOLVED (UG/L AS AS)	BORON, DIS- SOLVED (UG/L AS B)	IRON, DIS- SOLVED (UG/L AS FE)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)
NOV 17...	149	143	0.20	<0.010	<0.050	<0.015	<0.010	<1	20	19	18
APR 24...	140	136	0.19	<0.010	0.110	<0.015	<0.010	<1	20	4	<1

10258000 TAHQUITZ CREEK NEAR PALM SPRINGS, CA

LOCATION.--Lat 33°48'18", long 116°33'30", in SW 1/4 SW 1/4 sec.22, T.4 S., R.4 E., Riverside County, Hydrologic Unit 18100200, 2.2 mi southwest of Palm Springs and 7 mi upstream from mouth.

DRAINAGE AREA.--16.9 mi².

PERIOD OF RECORD.--October 1947 to September 1982, October 1983 to current year.

REVISED RECORDS.--WSP 1244: 1948, 1951. WDR CA-88-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 762.5 ft above sea level (levels by Riverside County Flood Control District). Prior to Aug. 25, 1970, at datum 2.00 ft higher.

REMARKS.--Records good except for estimated daily discharges, which are poor. No regulation or diversion upstream from station. See schematic diagram of Salton Sea basin.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,900 ft³/s, Nov. 22, 1965, Jan. 25, 1969, gage height, 12.34 ft, from rating curve extended above 70 ft³/s on basis of slope-area measurements at gage heights 10.45 and 12.34 ft; maximum gage height, 15.78 ft, Sept. 7, 1981, from debris wave produced by thunderstorm following a brushfire; no flow for parts of most years.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 85 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Jan. 10	2030	168	7.28	Mar. 5	2200	*950	*9.83
Feb. 14	Unknown	Unknown	Unknown	Mar. 11	0915	122	6.80

Minimum daily, 0.19 ft³/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	.19	.43	.67	.72	7.7	e7.3	34	54	27	11	4.0	1.2
2	.20	.44	.67	.71	e8.2	e7.3	33	52	27	11	3.9	1.7
3	.27	.48	.67	.89	e8.0	e10	33	46	26	11	3.5	2.9
4	.32	.53	.67	3.9	e7.6	20	34	44	26	10	3.3	2.5
5	.37	.54	.65	5.4	e6.5	274	36	41	26	10	3.2	2.2
6	.48	.53	.67	2.2	e6.4	342	36	39	25	9.7	3.0	2.0
7	.37	.52	.67	1.7	e6.2	128	37	37	24	9.3	2.9	1.7
8	.34	.53	.65	5.8	e6.1	93	39	36	23	9.0	2.7	1.6
9	.32	.56	.65	11	e5.9	79	38	35	22	9.3	2.6	1.5
10	.32	.57	.67	38	e5.7	75	36	36	21	e9.2	2.6	1.3
11	.31	.59	.67	63	e5.6	103	35	38	20	9.1	2.5	1.2
12	.31	.61	.67	49	e5.7	84	36	39	20	8.2	2.9	1.1
13	.32	.60	.67	30	e6.0	75	37	38	20	7.9	2.8	1.0
14	.36	.59	.69	17	e45	69	37	35	19	7.7	2.4	.99
15	.37	.59	.69	14	e30	67	35	34	19	7.6	2.5	.96
16	.43	.58	.67	11	e25	64	35	33	23	9.3	2.4	1.0
17	.43	.59	.65	9.6	e14	61	34	31	23	8.9	2.1	1.1
18	.42	.64	.65	8.3	e12	59	33	31	23	7.7	2.0	.92
19	.41	.63	.65	7.6	e10	62	30	31	21	7.3	1.9	.88
20	.41	.67	.65	7.1	e9.8	63	29	32	19	e7.0	2.1	.85
21	.39	.69	.65	7.1	e9.4	63	28	32	17	e6.7	2.6	.83
22	.38	.68	.66	6.4	e9.0	56	27	31	16	e6.4	3.6	.81
23	.37	.67	.76	6.3	e8.8	53	27	31	15	6.1	3.3	.80
24	.39	.65	.80	7.5	e8.5	48	28	30	14	5.9	3.0	.82
25	.40	.65	.92	9.5	e8.3	44	29	30	14	5.8	2.5	.79
26	.41	.63	.91	10	e8.1	41	31	28	13	5.2	2.1	.80
27	.40	.68	.81	8.8	e7.8	40	33	28	13	e5.0	1.8	.79
28	.41	.72	.76	8.1	e7.7	38	33	28	12	e4.8	1.7	.78
29	.42	.67	.82	7.6	---	37	38	27	12	4.6	1.5	.81
30	.41	.67	.75	7.2	---	35	47	27	12	4.6	1.3	.79
31	.43	---	.73	7.0	---	34	---	27	---	4.3	1.3	---
TOTAL	11.36	17.93	21.87	372.42	299.0	2231.6	1018	1081	592	239.6	80.0	36.62
MEAN	.37	.60	.71	12.0	10.7	72.0	33.9	34.9	19.7	7.73	2.58	1.22
MAX	.48	.72	.92	63	45	342	47	54	27	11	4.0	2.9
MIN	.19	.43	.65	.71	5.6	7.3	27	27	12	4.3	1.3	.78
AC-FT	23	36	43	739	593	4430	2020	2140	1170	475	159	73

e Estimated.

10258000 TAHQUITZ CREEK NEAR PALM SPRINGS, CA--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1948 - 1995, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	.58	1.83	3.64	6.53	7.86	8.88	11.5	14.6	7.24	2.31	.98	.74
MAX	8.64	43.1	72.5	81.3	117	72.0	57.3	78.3	58.0	24.9	6.36	4.88
(WY)	1984	1966	1967	1993	1980	1995	1969	1969	1980	1980	1980	1976
MIN	.000	.000	.000	.000	.21	.17	.063	.000	.000	.000	.000	.000
(WY)	1948	1948	1948	1948	1964	1961	1961	1961	1961	1956	1948	1948

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR	FOR 1995 WATER YEAR	WATER YEARS 1948 - 1995
ANNUAL TOTAL	1033.74	6001.40	
ANNUAL MEAN	2.83	16.4	5.54
HIGHEST ANNUAL MEAN			32.9
LOWEST ANNUAL MEAN			.088
HIGHEST DAILY MEAN	38 Feb 7	342 Mar 6	1080 Jan 25
LOWEST DAILY MEAN	.00 Aug 1	.19 Oct 1	.00 Oct 1
ANNUAL SEVEN-DAY MINIMUM	.00 Aug 1	.31 Oct 1	.00 Oct 1
INSTANTANEOUS PEAK FLOW		950 Mar 5	2900 Nov 22
INSTANTANEOUS PEAK STAGE		9.83 Mar 5	15.78 Sep 7
ANNUAL RUNOFF (AC-FT)	2050	11900	4010
10 PERCENT EXCEEDS	8.3	38	12
50 PERCENT EXCEEDS	.75	6.7	1.0
90 PERCENT EXCEEDS	.16	.53	.00

SALTON SEA BASIN

10258500 PALM CANYON CREEK NEAR PALM SPRINGS, CA

LOCATION.--Lat 33°44'42", long 116°32'05", in SW 1/4 SE 1/4 sec.11, T.5 S., R.4 E., Riverside County, Hydrologic Unit 18100200, on right bank 0.8 mi upstream from Murray Canyon Creek and 6 mi south of Palm Springs.

DRAINAGE AREA.--93.1 mi².

PERIOD OF RECORD.--January 1930 to January 1942, October 1947 to current year.

REVISED RECORDS.--WSP 1314: 1936(M). WDR CA-88-1: Drainage area.

GAGE.--Water-stage recorder. Elevation of gage is 700 ft above sea level, from topographic map. Prior to Jan. 14, 1942, at datum 0.2 ft higher.

REMARKS.--Records fair. No regulation or diversion upstream from station. See schematic diagram of Salton Sea basin.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 7,000 ft³/s, Feb. 21, 1980, gage height, 7.29 ft, from rating curve extended above 650 ft³/s on basis of slope-area measurements at gage height 6.38 ft and 6.81 ft; no flow for several months in most years.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 100 ft³/s and maximum (*), from rating curve extended above 950 ft³/s on basis of slope-area measurement at gage height 6.81 ft:

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Jan. 4	2330	1,360	5.20	Mar. 5	2215	1,770	5.59
Jan. 10	2030	1,840	5.65	Mar. 11	1000	2,060	5.82
Jan. 26	0500	243	3.23	Mar. 23	1700	114	2.61
Feb. 14	2130	197	3.06	Sept. 5	1900	*2,630	*6.19

Minimum daily, .01 ft³/s, Oct. 2, 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	.02	.06	.21	1.1	14	10	27	10	4.8	1.5	.40	.13
2	.01	.08	.21	1.0	13	9.8	25	10	4.8	1.4	.18	.61
3	.02	.15	.22	1.5	11	12	24	10	4.7	1.5	.13	1.0
4	.01	.22	.27	186	10	14	23	10	4.4	1.4	.08	6.6
5	.03	.25	.30	209	9.7	553	22	12	4.0	1.5	.06	90
6	.09	.21	.41	e12	9.2	575	21	15	3.8	1.4	.04	e9.8
7	.09	.19	.39	5.8	8.6	166	20	13	4.0	1.2	.04	1.1
8	.06	.21	.36	23	8.0	102	19	12	4.2	.82	.04	.55
9	.04	.22	.37	14	7.9	74	19	11	4.0	.66	.04	.35
10	.02	.23	.37	257	7.9	62	18	10	3.7	.71	.04	.26
11	.02	.26	.39	161	7.7	670	17	10	3.3	.81	.03	.20
12	.03	.31	.42	124	7.5	236	17	9.6	3.1	.49	.31	.17
13	.03	.28	.44	64	7.7	149	16	10	2.9	.49	.68	.15
14	.04	.25	.47	33	72	114	17	10	2.6	.42	.17	.13
15	.07	.25	.46	24	71	94	16	10	2.7	.50	.16	.15
16	.11	.25	.47	24	31	82	19	9.7	3.8	1.8	.22	.17
17	.11	.21	.45	19	23	70	20	9.2	4.4	4.2	.19	.21
18	.11	.19	.43	14	19	63	20	8.7	3.5	2.9	.14	.16
19	.11	.13	.42	12	16	57	21	8.3	3.0	2.1	.10	.13
20	.12	.13	.41	10	15	52	18	7.9	2.7	1.6	.46	.12
21	.11	.12	.41	14	14	53	17	7.5	2.6	1.3	6.0	.12
22	.11	.12	.46	11	13	50	15	7.1	2.4	1.1	5.4	.10
23	.09	.11	.91	9.6	12	66	14	7.0	2.1	1.0	4.1	.10
24	.11	.10	1.0	16	12	52	13	6.9	2.0	.98	1.8	.08
25	.11	.09	1.4	68	11	44	13	6.7	1.8	.85	1.3	.09
26	.10	.09	2.1	129	11	39	12	6.3	1.8	.61	.81	.10
27	.09	.14	1.5	51	11	36	11	6.0	1.8	.34	.46	.13
28	.09	.18	1.3	32	10	33	11	5.9	1.6	.24	.37	.13
29	.09	.22	1.2	24	---	31	11	5.6	1.5	.29	.27	.17
30	.05	.19	1.2	19	---	30	11	5.3	1.5	.52	.18	.19
31	.05	---	1.1	17	---	28	---	5.0	---	.77	.15	---
TOTAL	2.14	5.44	20.05	1586.0	463.2	3626.8	527	275.7	93.5	35.40	24.35	113.20
MEAN	.069	.18	.65	51.2	16.5	117	17.6	8.89	3.12	1.14	.79	3.77
MAX	.12	.31	2.1	257	72	670	27	15	4.8	4.2	6.0	90
MIN	.01	.06	.21	1.0	7.5	9.8	11	5.0	1.5	.24	.03	.08
AC-FT	4.2	11	40	3150	919	7190	1050	547	185	70	48	225

e Estimated.

10258500 PALM CANYON CREEK NEAR PALM SPRINGS, 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	.37	.87	4.04	9.26	19.8	20.2	7.57	2.29	.71	.80	1.04	.90
MAX	5.95	20.6	39.6	203	318	188	80.8	24.1	9.87	15.1	33.0	19.5
(WY)	1984	1966	1983	1993	1980	1983	1958	1983	1980	1979	1983	1976
MIN	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
(WY)	1931	1933	1950	1951	1951	1951	1934	1934	1931	1931	1932	1930

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR				FOR 1995 WATER YEAR				WATER YEARS 1930 - 1995			
ANNUAL TOTAL	433.32				6772.78							
ANNUAL MEAN	1.19				18.6				5.62			
HIGHEST ANNUAL MEAN									47.4			
LOWEST ANNUAL MEAN									.000			
HIGHEST DAILY MEAN	92				670				2040			
LOWEST DAILY MEAN	.00				.01				.00			
ANNUAL SEVEN-DAY MINIMUM	.00				.03				.00			
INSTANTANEOUS PEAK FLOW					2630				7000			
INSTANTANEOUS PEAK STAGE					6.19				7.29			
ANNUAL RUNOFF (AC-FT)	859				13430				4070			
10 PERCENT EXCEEDS	2.2				33				6.7			
50 PERCENT EXCEEDS	.21				1.8				.00			
90 PERCENT EXCEEDS	.00				.10				.00			

10259000 ANDREAS CREEK NEAR PALM SPRINGS, CA

LOCATION.--Lat 33°45'36", long 116°32'57", in SE 1/4 SE 1/4 sec.3, T.5 S., R.4 E., Riverside County, Hydrologic Unit 18100200, on left bank at U.S. Bureau of Indian Affairs Diversion Dam, 1.1 mi upstream from mouth, and 5.1 mi south of Palm Springs.

DRAINAGE AREA.--8.65 mi².

PERIOD OF RECORD.--October 1948 to current year.

REVISED RECORDS.--WDR CA-88-1: Drainage area. WDR CA-91-1: 1986(M), 1988(M).

GAGE.--Water-stage recorder and concrete control. Elevation of gage is 800 ft above sea level, from topographic map. Prior to Mar. 25, 1949, reference point at same site at different datum.

REMARKS.--No estimated daily discharges. Records good. No regulation upstream from station. One small diversion for domestic use about 1 mi upstream from station. See schematic diagram of Salton Sea basin.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,960 ft³/s, Aug. 31, 1954, gage height, 7.11 ft, from rating curve extended above 80 ft³/s on basis of slope-area measurement of peak flow; no flow at times in some years.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 50 ft³/s and maximum (*), from rating curve extended above 100 ft³/s by theoretical computations of flow over weir:

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Jan. 10	2045	*186	*3.84	Mar. 5	1945	183	3.83
Feb. 14	0915	64	3.20	Mar. 11	1030	81	3.31

Minimum daily, 0.95 ft³/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	.96	1.3	1.7	1.8	5.7	6.1	10	6.5	4.2	2.8	1.9	2.0
2	.95	1.4	1.7	1.7	5.9	5.9	9.9	6.4	4.2	2.8	1.8	2.3
3	.99	1.6	1.7	2.1	5.8	6.5	9.5	6.2	4.2	2.8	1.8	2.1
4	1.1	1.6	1.7	4.6	5.5	7.2	9.1	6.0	4.2	2.8	1.7	2.0
5	1.5	1.6	1.7	8.9	5.4	87	8.9	6.3	4.1	2.8	1.7	2.1
6	1.3	1.6	1.8	3.5	5.2	77	8.7	6.5	4.1	2.8	1.7	2.1
7	1.2	1.6	1.7	3.4	5.1	30	8.6	6.4	4.2	2.7	1.8	2.0
8	1.0	1.6	1.6	14	5.0	22	8.6	6.3	4.3	2.6	1.8	1.9
9	1.0	1.7	1.7	6.8	4.9	19	8.4	6.1	4.1	2.6	1.8	1.8
10	1.0	1.6	1.7	34	4.7	17	7.9	5.9	3.8	2.6	1.8	1.8
11	1.0	1.6	1.8	39	4.6	47	7.7	5.9	3.7	2.4	1.8	1.8
12	1.1	1.6	1.8	27	4.5	29	7.6	6.0	3.6	2.3	2.4	1.7
13	1.1	1.6	1.8	16	5.0	23	7.5	6.1	3.5	2.4	2.0	1.7
14	1.2	1.6	1.8	11	35	21	7.6	6.1	3.4	2.4	1.9	1.8
15	1.2	1.6	1.8	9.4	20	19	7.5	6.0	3.5	2.5	2.1	1.8
16	1.3	1.6	1.7	8.1	13	18	8.0	5.9	4.3	3.1	2.1	2.1
17	1.2	1.6	1.7	6.9	11	17	7.8	5.8	4.6	2.6	2.0	2.0
18	1.2	1.5	1.7	6.0	9.8	16	7.6	5.6	4.1	2.5	1.9	1.8
19	1.3	1.5	1.6	5.3	8.7	15	7.5	5.4	3.7	2.4	2.0	1.8
20	1.3	1.5	1.6	5.0	8.0	15	7.4	4.9	3.3	2.3	2.4	1.8
21	1.3	1.5	1.6	5.3	7.7	15	7.2	4.6	3.2	2.3	2.9	1.8
22	1.3	1.5	1.7	4.8	7.5	14	7.0	4.6	3.1	2.2	2.4	1.8
23	1.3	1.6	2.0	4.8	7.2	15	6.9	4.6	3.0	2.2	2.2	1.8
24	1.3	1.5	1.9	5.6	7.0	14	6.8	4.7	2.9	2.2	2.2	1.9
25	1.3	1.4	2.1	7.1	6.8	13	6.7	4.5	2.9	2.1	2.0	1.9
26	1.3	1.6	2.0	8.2	6.7	13	6.7	4.3	3.1	2.0	1.9	1.9
27	1.3	1.7	1.8	6.8	6.5	12	6.6	4.1	3.0	2.0	1.9	1.9
28	1.3	1.7	1.8	6.2	6.2	12	6.6	4.0	2.9	1.9	1.9	2.0
29	1.3	1.6	1.8	5.9	---	11	6.6	3.9	2.8	2.0	1.8	2.0
30	1.3	1.7	1.8	5.7	---	11	6.6	3.9	2.9	2.1	1.8	2.0
31	1.3	---	1.8	5.5	---	10	---	4.0	---	1.9	1.8	---
TOTAL	37.20	47.1	54.6	280.4	228.4	637.7	233.5	167.5	108.9	75.1	61.2	57.4
MEAN	1.20	1.57	1.76	9.05	8.16	20.6	7.78	5.40	3.63	2.42	1.97	1.91
MAX	1.5	1.7	2.1	39	35	87	10	6.5	4.6	3.1	2.9	2.3
MIN	.95	1.3	1.6	1.7	4.5	5.9	6.6	3.9	2.8	1.9	1.7	1.7
AC-FT	74	93	108	556	453	1260	463	332	216	149	121	114

SALTON SEA BASIN

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10259000 ANDREAS CREEK NEAR PALM SPRINGS, CA--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1949 - 1995, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	1.35	2.21	3.18	4.93	5.79	6.20	4.53	3.10	1.99	1.43	1.42	1.28
MAX	5.60	19.2	30.2	46.5	56.4	33.7	20.0	17.4	12.4	7.51	9.52	6.05
(WY)	1984	1966	1967	1993	1980	1980	1983	1983	1983	1983	1983	1983
MIN	.38	.60	.96	.95	1.02	.99	.68	.51	.23	.087	.14	.24
(WY)	1966	1963	1963	1976	1961	1961	1961	1961	1961	1961	1963	1964

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR				FOR 1995 WATER YEAR				WATER YEARS 1949 - 1995			
ANNUAL TOTAL	794.19				1989.00							
ANNUAL MEAN	2.18				5.45				3.10			
HIGHEST ANNUAL MEAN									12.4			
LOWEST ANNUAL MEAN									.66			
HIGHEST DAILY MEAN	15 Feb 7				87 Mar 5				395 Dec 6 1966			
LOWEST DAILY MEAN	.79 Aug 24				.95 Oct 2				.00 Jun 27 1961			
ANNUAL SEVEN-DAY MINIMUM	.83 Aug 19				1.1 Oct 7				.00 Jul 13 1963			
INSTANTANEOUS PEAK FLOW					186 Jan 10				1960 Aug 31 1954			
INSTANTANEOUS PEAK STAGE					3.84 Jan 10				7.11 Aug 31 1954			
ANNUAL RUNOFF (AC-FT)	1580				3950				2250			
10 PERCENT EXCEEDS	3.6				10				5.6			
50 PERCENT EXCEEDS	1.7				2.8				1.7			
90 PERCENT EXCEEDS	.91				1.5				.56			

SALTON SEA BASIN

10259050 PALM CANYON WASH NEAR CATHEDRAL CITY, CA

LOCATION.--Lat 33°47'49", long 116°28'44", in SE 1/4 NE 1/4 sec.29, T.5 S., R.4 E., Riverside County, Hydrologic Unit 18100200, on right bank 500 ft downstream from Golf Club Drive, 0.4 mi upstream from Whitewater River, and 1.5 mi northeast of Cathedral City.

DRAINAGE AREA.--Not determined.

PERIOD OF RECORD.--January 1988 to current year.

GAGE.--Water-stage recorder and concrete control. Elevation of gage is 330 ft above sea level, from topographic map.

REMARKS.--Records poor. No regulation upstream from station. Two diversions for domestic use upstream from station on Andreas Creek. See schematic diagram of Salton Sea basin.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 8,280 ft³/s, Jan. 16, 1993, gage height, 8.70 ft, from rating curve extended above 1,350 ft³/s; no flow for most of each year.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 3,390 ft³/s, Mar. 5, gage height, 8.14 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	.00	.00	e.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2	.00	.00	.00	.00	.00	.00	.00	.16	.00	.00	.00	.00
3	.00	.00	.00	.00	.00	.00	.00	.20	.00	.00	.00	.00
4	.00	.00	.00	e165	.00	.00	.00	.00	.00	.00	.00	.00
5	.00	.00	.00	163	.00	729	.00	.00	.00	.00	.00	e60
6	.00	e.00	.00	.00	.00	e1040	.00	.00	.00	.00	.00	e7.0
7	.00	e.00	.00	.00	.00	e220	.00	.00	.00	.00	.00	e.00
8	.00	e.00	.00	.00	.00	e88	.00	.00	.00	.00	.00	.00
9	.00	e.00	.00	.00	.00	e50	.00	.00	.00	.00	.00	.00
10	.00	e.00	.00	305	.00	e30	.00	.00	.00	.00	.00	.00
11	.00	e.00	.00	84	.00	e400	.00	.00	.00	.00	.00	.00
12	.00	e.00	.00	37	.00	e150	.00	1.0	.00	.00	.00	.00
13	.00	e.00	.00	14	.00	e48	.00	3.3	.00	.00	.00	.00
14	.00	e.00	.00	1.4	64	e33	.00	2.2	.00	.00	.00	.00
15	.00	e.00	.00	.00	40	e24	.00	1.7	.00	.00	.00	.00
16	.00	e.00	.00	.00	15	e14	.00	1.6	.00	.00	.00	.00
17	.00	e.00	.00	.00	8.0	e11	.00	1.6	.00	.00	.00	.00
18	.00	e.00	.00	.00	2.5	e10	.00	1.2	.00	.00	.00	.00
19	.00	e.00	.00	.00	.24	e9.0	.00	1.7	.00	.00	.00	.00
20	.00	e.00	.00	.00	.00	e8.0	.00	1.8	.00	.00	.00	.00
21	.00	e.00	.00	.00	.00	e7.0	.00	.93	.00	.00	.00	.00
22	.00	e.00	.00	.00	.00	e4.0	.00	1.7	.00	.00	.00	.00
23	.00	e.00	.00	.00	.00	e12	.00	2.2	.00	.00	.00	.00
24	.00	e.00	.00	1.0	.00	e4.0	.00	2.5	.00	.00	.00	.00
25	.00	e.00	.00	6.5	.00	e1.5	.00	2.5	.00	.00	.00	.00
26	.00	e.00	.00	12	.00	e.10	.00	1.7	.00	.00	.00	.00
27	.00	e.00	.00	.00	.00	.00	.00	1.7	.00	.00	.00	.00
28	.00	e.00	.00	.00	.00	.00	.00	1.2	.00	.00	.00	.00
29	.00	e.00	.00	.00	---	.00	.00	.74	.00	.00	.00	.00
30	.00	e.00	.00	.00	---	.00	.00	.00	.00	.00	.00	.00
31	.00	---	.00	.00	---	.00	---	.00	---	.00	.00	---
TOTAL	0.00	0.00	0.00	788.90	129.74	2892.60	0.00	31.63	0.00	0.00	0.00	67.00
MEAN	.000	.000	.000	25.4	4.63	93.3	.000	1.02	.000	.000	.000	2.23
MAX	.00	.00	.00	305	64	1040	.00	3.3	.00	.00	.00	60
MIN	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
AC-FT	.00	.00	.00	1560	257	5740	.00	63	.00	.00	.00	133

e Estimated.

10259050 PALM CANYON WASH NEAR CATHEDRAL CITY, 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	.000	.000	.056	28.4	5.31	13.6	.48	.41	.000	.065	.62	.29
MAX	.000	.000	.45	202	35.2	93.3	3.81	2.26	.001	.52	1.77	2.23
(WY)	1988	1988	1993	1993	1993	1995	1993	1993	1993	1991	1989	1995
MIN	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
(WY)	1988	1988	1988	1988	1989	1988	1988	1988	1988	1988	1990	1988

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1988 - 1995	
ANNUAL TOTAL	79.12		3909.87			
ANNUAL MEAN	.22		10.7		4.14	
HIGHEST ANNUAL MEAN					20.4	
LOWEST ANNUAL MEAN					.000	
HIGHEST DAILY MEAN	48	Aug 9	1040	Mar 6	1700	Jan 16 1993
LOWEST DAILY MEAN	.00	Jan 1	.00	Oct 1	.00	Oct 1 1987
ANNUAL SEVEN-DAY MINIMUM	.00	Jan 1	.00	Oct 1	.00	Oct 1 1987
INSTANTANEOUS PEAK FLOW			3390	Mar 5	8280	Jan 16 1993
INSTANTANEOUS PEAK STAGE			8.14	Mar 5	8.70	Jan 16 1993
ANNUAL RUNOFF (AC-FT)	157		7760		3000	
10 PERCENT EXCEEDS	.00		2.5		.00	
50 PERCENT EXCEEDS	.00		.00		.00	
90 PERCENT EXCEEDS	.00		.00		.00	

10259100 WHITEWATER RIVER AT RANCHO MIRAGE, CA

LOCATION.--Lat 33°44'58", long 116°25'19", in NW 1/4 SW 1/4 sec.12, T.5 S., R.5 E., Riverside County, Hydrologic Unit 18100200, on right bank 0.2 mi upstream from Magnesia Spring Canyon storm channel and 2.7 mi northwest of the intersection of Highways 111 and 74.

DRAINAGE AREA.--588 mi².

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

REVISED RECORDS.--WDR CA-93-1: 1989-92(M). WDR CA-95-1: 1993, 1993(M).

GAGE.--Water-stage recorder and concrete control. Elevation of gage is 230 ft above sea level, from topographic map.

REMARKS.--Records fair. No regulation upstream from station. Water diverted from tributary streams for municipal supply in vicinity of Palm Springs. Water from the Colorado River basin is imported for ground-water recharge and irrigation. See schematic diagram of Salton Sea basin.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 9,060 ft³/s, Jan. 7, 1993, gage height, 5.93 ft, from rating curve extended above 1,460 ft³/s on basis of critical depth computations; no flow for many days in each year.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 2,920 ft³/s, Mar. 5, gage height, 4.14 ft; no flow for many days.

REVISIONS.--The maximum discharge for calendar and water year 1993 has been revised to 9,060 ft³/s, Jan. 7, 1993, gage height, 5.93 ft; revised daily discharges, in cubic feet per second, for periods in January 1993 are given below. These figures supersede those published in the report for 1993.

Jan. 7....2090 Jan. 8....2100 Jan. 16....2950 Jan. 17....1480

	TOTAL	MEAN	MAX	MIN	AC-FT
January 1993	9611.60	310	2950	.00	19060
Wtr Yr 1993	11098.58	30.4	2950	.00	22010
Cal Yr 1993	11092.82	30.4	2950	.00	22000

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	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
3	.00	.00	.00	.64	.00	.00	.00	.00	.00	.00	.00	.00
4	.00	.00	.00	101	.00	.00	.00	.00	.00	.00	.00	.00
5	.00	.00	.00	138	.00	336	.00	.00	.00	.00	.00	9.0
6	.00	.00	.00	1.6	.00	1160	.00	.00	.00	.00	.00	e30
7	.00	.00	.00	.86	.00	113	.00	.00	.00	.00	.00	.00
8	.00	.00	.00	.22	.00	41	.00	.00	.00	.00	.00	.00
9	.00	.00	.00	.53	.00	4.9	.00	.00	.00	.00	.00	.00
10	.00	.00	.00	146	.00	2.2	.00	.00	.00	.00	.00	.00
11	.00	.00	.00	150	.00	293	.00	.00	.00	.00	.00	.00
12	.00	.00	.00	22	.00	89	.00	.00	.00	.00	.00	.00
13	.00	.00	.00	7.0	.00	4.7	.00	.00	.00	.00	.00	.00
14	.00	.00	.00	.04	116	.28	.00	.00	.00	.00	.00	.00
15	.00	.00	.00	.00	65	.10	.00	.00	.00	.00	.00	.00
16	.00	.00	.00	.13	1.4	.00	.00	.00	.00	.01	.00	.00
17	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
18	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
19	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
20	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
21	.00	.00	.00	.00	.00	.04	.00	.00	.00	.00	.00	.00
22	.00	.00	.05	.00	.00	.43	.00	.00	.00	.00	.00	.00
23	.00	.00	.03	.00	.00	.00	.00	.00	.00	.00	.00	.00
24	.00	.00	.11	.15	.00	.00	.00	.00	.00	.00	.00	.00
25	.00	.00	.27	1.6	.00	.00	.00	.00	.00	.00	.00	.00
26	.00	.00	.00	4.6	.00	.00	.00	.00	.00	.00	.00	.00
27	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
28	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
29	.00	.00	.00	.00	---	.00	.00	.00	.00	.00	.00	.00
30	.00	.00	.00	.00	---	.00	.00	.00	.00	.00	.00	.00
31	.00	---	.00	.00	---	.00	---	.00	---	.00	.00	---
TOTAL	0.10	0.00	0.46	574.37	182.40	2044.65	0.00	0.00	0.00	0.01	0.00	39.00
MEAN	.003	.000	.015	18.5	6.51	66.0	.000	.000	.000	.000	.000	1.30
MAX	.10	.00	.27	150	116	1160	.00	.00	.00	.01	.00	.30
MIN	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
AC-FT	.2	.00	.9	1140	362	4060	.00	.00	.00	.02	.00	.77

e Estimated.

10259100 WHITEWATER RIVER AT RANCHO MIRAGE, 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	.003	.004	.048	54.8	10.4	12.6	.059	.040	.006	.004	.16	.23
MAX	.016	.021	.18	310	52.3	66.0	.21	.27	.041	.026	.78	1.30
WY)	1993	1990	1993	1993	1993	1995	1993	1993	1994	1991	1989	1995
MIN	.000	.000	.000	.000	.016	.000	.000	.000	.000	.000	.000	.000
WY)	1990	1991	1994	1994	1990	1990	1989	1989	1989	1989	1990	1989

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR	FOR 1995 WATER YEAR	WATER YEARS 1989 - 1995
ANNUAL TOTAL	36.07	2840.99	
ANNUAL MEAN	.099	7.78	6.56
HIGHEST ANNUAL MEAN			30.4
LOWEST ANNUAL MEAN			.005
HIGHEST DAILY MEAN	15 Feb 7	1160 Mar 6	2950 Jan 16 1993
LOWEST DAILY MEAN	.00 Jan 1	.00 Oct 2	.00 Mar 30 1989
ANNUAL SEVEN-DAY MINIMUM	.00 Jan 1	.00 Oct 2	.00 Mar 30 1989
INSTANTANEOUS PEAK FLOW		2920 Mar 5	9060 Jan 7 1993
INSTANTANEOUS PEAK STAGE		4.14 Mar 5	5.93 Jan 7 1993
ANNUAL RUNOFF (AC-FT)	72	5640	4750
0 PERCENT EXCEEDS	.00	.04	.00
0 PERCENT EXCEEDS	.00	.00	.00
0 PERCENT EXCEEDS	.00	.00	.00

SALTON SEA BASIN

10259200 DEEP CREEK NEAR PALM DESERT, CA

LOCATION.--Lat 33°37'52", long 116°23'29", in NE 1/4 SE 1/4 sec.19, T.6 S., R.6 E., Riverside County, Hydrologic Unit 18100200, on left bank 500 ft downstream from unnamed tributary and 6.3 mi south of Palm Desert.

DRAINAGE AREA.--30.6 mi².

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

GAGE.--Water-stage recorder. Elevation of gage is 1,440 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. See schematic diagram of Salton Sea basin.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 7,100 ft³/s, Sept. 10, 1976, gage height, 7.84 ft inside, 11.5 ft from floodmarks, from rating curve extended above 40 ft³/s on basis of slope-area measurement at gage heights 2.68, 5.15, and 7.84 ft; maximum gage height, 10.27 ft, Aug. 14, 1984; no flow for many days most years.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 20 ft³/s and maximum (*), from rating curve extended above 52 ft³/s on basis of slope-area measurement at gage heights 5.15 and 10.27 ft:

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Jan. 4	2330	87	2.91	Mar. 5	2400	*244	*3.61
Jan. 10	2330	165	3.32	Mar. 11	1130	235	3.58
Jan. 25	0415	162	3.31	Sept. 5	1745	201	3.46
Feb. 14	1400	134	3.18				

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	.35	6.0	4.0	4.3	1.5	.46	.12	.00	.00
2	.00	.00	.00	.35	6.0	3.7	4.1	1.6	.45	.11	.00	.00
3	.00	.00	.00	.37	5.6	3.6	3.8	1.6	.42	.08	.00	.00
4	.00	.00	.00	9.9	5.2	5.3	3.6	1.5	.41	.08	.00	.00
5	.00	.00	.00	32	4.7	88	3.3	1.7	.39	.07	.00	6.2
6	.00	.00	.00	5.7	4.2	121	3.1	1.8	.35	.07	.00	e.27
7	.00	.00	.00	2.8	3.9	39	2.8	1.7	.34	.06	.00	e.04
8	.00	.00	.00	4.9	3.6	24	2.8	1.8	.36	.05	.00	e.02
9	.00	.00	.00	4.4	3.4	17	2.7	1.6	.39	.05	.00	.00
10	.00	.00	.00	12	3.2	14	2.6	1.4	.37	.07	.00	.00
11	.00	.00	.00	45	2.9	92	2.5	1.2	.33	.05	.00	.00
12	.00	.00	.00	20	2.7	44	2.4	1.1	.30	.04	.03	.00
13	.00	.00	.00	15	2.6	28	2.3	1.1	.28	.03	.00	.00
14	.00	.00	.00	7.8	4.2	23	2.3	1.2	.27	.02	.00	.00
15	.00	.00	.00	5.8	4.6	19	2.3	1.1	.25	.02	.00	.00
16	.00	.00	.00	5.5	21	16	2.4	1.1	.24	.05	.00	.00
17	.00	.00	.00	4.0	14	14	2.6	.99	.25	.03	.00	.00
18	.00	.00	.00	3.3	11	12	2.7	.91	.35	.03	.00	.00
19	.00	.00	.00	2.8	8.8	11	2.8	.86	.32	.02	.00	.00
20	.00	.00	.00	2.5	7.5	10	2.5	.78	.27	.02	.00	.00
21	.00	.00	.00	2.5	6.5	9.8	2.4	.71	.26	.00	.00	.00
22	.00	.00	.00	2.4	5.9	9.2	2.3	.66	.24	.01	.00	.00
23	.00	.00	.01	2.2	5.4	9.4	2.2	.65	.22	.02	.00	.00
24	.00	.00	.00	8.8	5.0	8.6	2.1	.67	.21	.02	.00	.00
25	.00	.00	.01	84	4.9	7.7	2.0	.65	.19	.01	.00	.00
26	.00	.00	.00	56	4.7	7.0	1.8	.63	.18	.00	.00	.00
27	.00	.00	.01	21	4.4	6.3	1.8	.60	.17	.00	.00	.00
28	.00	.00	.37	13	4.2	5.9	1.7	.58	.15	.00	.00	.00
29	.00	.00	.38	10	---	5.4	1.7	.55	.14	.01	.00	.00
30	.00	.00	.37	8.3	---	5.0	1.6	.52	.13	.02	.00	.00
31	.00	---	.35	6.8	---	4.6	---	.49	---	.00	.00	---
TOTAL	0.00	0.00	1.50	399.47	245.3	667.5	77.5	33.25	8.69	1.16	0.03	6.53
MEAN	.000	.000	.048	12.9	8.76	21.5	2.58	1.07	.29	.037	.001	.22
MAX	.00	.00	.38	84	46	121	4.3	1.8	.46	.12	.03	6.2
MIN	.00	.00	.00	.35	2.6	3.6	1.6	.49	.13	.00	.00	.00
AC-FT	.00	.00	3.0	792	487	1320	154	66	17	2.3	.06	13

e Estimated.

SALTON SEA BASIN

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10259200 DEEP CREEK NEAR PALM DESERT, 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	.26	.99	2.18	5.13	8.64	6.82	2.23	.90	.37	.84	1.12	1.44
MAX	4.62	16.3	23.5	88.6	101	49.3	12.4	7.15	3.97	11.8	15.3	38.1
WY)	1984	1966	1983	1993	1980	1983	1983	1983	1983	1979	1984	1976
MIN	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
WY)	1963	1963	1963	1963	1963	1963	1963	1962	1962	1962	1962	1962

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR	FOR 1995 WATER YEAR	WATER YEARS 1962 - 1995
ANNUAL TOTAL	220.69	1440.93	
ANNUAL MEAN	.60	3.95	2.56
HIGHEST ANNUAL MEAN			15.1 1993
LOWEST ANNUAL MEAN			.002 1963
HIGHEST DAILY MEAN	20 Feb 8	121 Mar 6	850 Sep 10 1976
LOWEST DAILY MEAN	.00 Jul 15	.00 Oct 1	.00 May 1 1962
ANNUAL SEVEN-DAY MINIMUM	.00 Jul 18	.00 Oct 1	.00 May 1 1962
INSTANTANEOUS PEAK FLOW		244 Mar 5	7100 Sep 10 1976
INSTANTANEOUS PEAK STAGE		3.61 Mar 5	10.27 Aug 14 1984
ANNUAL RUNOFF (AC-FT)	438	2860	1850
.0 PERCENT EXCEEDS	1.5	8.8	3.3
.0 PERCENT EXCEEDS	.12	.18	.06
.0 PERCENT EXCEEDS	.00	.00	.00

SALTON SEA BASIN

10259300 WHITEWATER RIVER AT INDIO, CA

LOCATION.--Lat 33°44'14", long 116°14'07", in SE 1/4 NE 1/4 sec.15, T.5 S., R.7 E., Riverside County, Hydrologic Unit 18100200, on right bank of concrete drop structure, 1,000 ft upstream from Monroe Street bridge, and 1.7 mi northwest of Indio.

DRAINAGE AREA.--1,073 mi².

PERIOD OF RECORD.--March 1966 to current year.

REVISED RECORDS.--WDR CA-72-1: 1971.

GAGE.--Water-stage recorder and crest-stage gage. Concrete control since Oct. 1, 1979. Elevation of gage is 0 ft sea level, from topographic map. Prior to Oct. 1, 1979, water-stage recorder at site 0.5 mi upstream at different datum. Oct. 1, 1979, to Feb. 17, 1983, and Feb. 18, 1983, to Nov. 18, 1991, at same site at different datums.

REMARKS.--No estimated daily discharges. Records fair. No regulation upstream from station. Water diverted from tributary streams for municipal supply in vicinity of Palm Springs. Water from the Colorado River basin is imported for ground-water recharge and irrigation. See schematic diagram of Salton Sea basin.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 11,400 ft³/s, Jan. 25, 1969, gage height, 14.41 ft, site and datum then in use, from rating curve extended above 1,300 ft³/s on basis of slope-area measurement at gage height 15.3 ft for flood of Nov. 22, 1965; no flow for all or most of each year.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Mar. 2 or 3, 1938, reached a discharge of 29,000 ft³/s on basis of slope-area measurement, at site 5.0 mi upstream. Flood of Nov. 22, 1965, reached a stage of 15.3 ft, from floodmark, at site and datum used prior to Oct. 1, 1979, discharge 14,100 ft³/s, on basis of slope-area measurement of peak flow.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 200 ft³/s and maximum (*), from rating curve extended above 480 ft³/s on basis of critical-depth computations:

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Jan. 4	2245	1,410	8.55	Mar. 6	0500	*2,210	*8.83
Jan. 11	0130	929	8.33	Mar. 11	1430	1,050	8.39
Feb. 15	0215	767	8.24				

No flow for most of year.

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	.00	.00	.00	.00	.00	.00	.00	.00
2	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
3	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4	.00	.00	.00	102	.00	.00	.00	.00	.00	.00	.00	.00
5	.00	.00	.00	206	.00	94	.00	.00	.00	.00	.00	.00
6	.00	.00	.00	.10	.00	967	.00	.00	.00	.00	.00	.00
7	.00	.00	.00	.00	.00	108	.00	.00	.00	.00	.00	.00
8	.00	.00	.00	.00	.00	26	.00	.00	.00	.00	.00	.00
9	.00	.00	.00	.00	.00	2.6	.00	.00	.00	.00	.00	.00
10	.00	.00	.00	2.2	.00	9.9	.00	.00	.00	.00	.00	.00
11	.00	.00	.00	215	.00	283	.00	.00	.00	.00	.00	.00
12	.00	.00	.00	13	.00	121	.00	.00	.00	.00	.00	.00
13	.00	.00	.00	7.8	.00	5.5	.00	.00	.00	.00	.00	.00
14	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
15	.00	.00	.00	.00	133	.00	.00	.00	.00	.00	.00	.00
16	.00	.00	.00	.00	1.1	.00	.00	.00	.00	.00	.00	.00
17	.00	.00	.00	.00	.01	.00	.00	.00	.00	.00	.00	.00
18	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
19	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
20	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
21	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
22	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
23	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
24	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
25	.00	.00	.00	.05	.00	.00	.00	.00	.00	.00	.00	.00
26	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
27	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
28	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
29	.00	.00	.00	.00	---	.00	.00	.00	.00	.00	.00	.00
30	.00	.00	.00	.00	---	.00	.00	.00	.00	.00	.00	.00
31	.00	---	.00	.00	---	.00	---	.00	---	.00	.00	---
TOTAL	0.00	0.00	0.00	546.15	134.11	1617.00	0.00	0.00	0.00	0.00	0.00	0.00
MEAN	.0000	.0000	.0000	17.6	4.79	52.2	.0000	.0000	.0000	.0000	.0000	.0000
MAX	.00	.00	.00	215	133	967	.00	.00	.00	.00	.00	.00
MIN	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
AC-FT	.00	.00	.00	1080	266	3210	.00	.00	.00	.00	.00	.00

10259300 WHITEWATER RIVER AT INDIO, 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	.010	.093	2.71	25.1	15.2	5.46	.022	.012	.010	1.28	1.27	2.97
MAX	.17	.88	61.3	513	278	56.2	.16	.35	.19	32.1	29.4	86.2
WY)	1979	1979	1967	1993	1980	1978	1984	1972	1968	1979	1983	1976
MIN	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
WY)	1967	1967	1968	1967	1967	1966	1966	1966	1966	1967	1966	1966

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR	FOR 1995 WATER YEAR	WATER YEARS 1966 - 1995
ANNUAL TOTAL	1.50	2297.26	
ANNUAL MEAN	.004	6.29	4.50
HIGHEST ANNUAL MEAN			47.4
LOWEST ANNUAL MEAN			.000
HIGHEST DAILY MEAN	1.5 Mar 19	967 Mar 6	5000 Jan 16 1993
LOWEST DAILY MEAN	.00 Jan 1	.00 Oct 1	.00 Mar 1 1966
ANNUAL SEVEN-DAY MINIMUM	.00 Jan 1	.00 Oct 1	.00 Mar 1 1966
INSTANTANEOUS PEAK FLOW		2210 Mar 6	11400 Jan 25 1969
INSTANTANEOUS PEAK STAGE		8.83 Mar 6	14.41 Jan 25 1969
ANNUAL RUNOFF (AC-FT)	3.0	4560	3260
50 PERCENT EXCEEDS	.00	.00	.00
50 PERCENT EXCEEDS	.00	.00	.00
50 PERCENT EXCEEDS	.00	.00	.00

SALTON SEA BASIN

10259540 WHITEWATER RIVER NEAR MECCA, CA

LOCATION.--Lat 33°31'29", long 116°04'36", in NW 1/4 NW 1/4 sec.32, T.7 S., R.9 E., Riverside County, Hydrologic Unit 18100200, on left bank 1.6 mi upstream from mouth at Salton Sea and 3.3 mi south of Mecca.

DRAINAGE AREA.--1,495 mi².

PERIOD OF RECORD.--October 1960 to current year (since October 1992, low-flow records only).

GAGE.--Water-stage recorder. Datum of gage is 221.00 ft below sea level (levels by Coachella Valley Water District). Oct. 1, 1960, to Mar. 22, 1967, at site 1.3 mi downstream and Mar. 23, 1967, to July 22, 1970, at site 0.7 mi downstream at different datums.

REMARKS.--Records poor. Most flow represents seepage and return flow from irrigated areas. No discharge records computed above 200 ft³/s since October 1992. See schematic diagram of Salton Sea basin.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 2,500 ft³/s (estimated), Jan. 25, 1969; minimum daily, 37 ft³/s, Nov. 25-29, 1960.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge computed, 190 ft³/s, Mar. 11; minimum daily, 64 ft³/s, Aug. 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	92	81	85	82	84	92	93	95	86	76	96	71
2	88	84	84	80	87	94	96	101	82	80	99	69
3	86	82	83	80	91	94	97	93	85	82	97	77
4	85	84	83	96	92	93	107	e95	84	80	95	77
5	88	81	79	---	94	94	115	e100	81	87	94	77
6	88	86	73	153	93	---	108	e97	80	79	102	81
7	92	88	78	103	90	---	104	95	83	75	99	80
8	93	84	81	93	89	164	104	92	89	79	97	79
9	96	85	85	93	e90	81	103	92	89	e82	94	80
10	93	86	88	98	e88	83	97	89	80	e85	94	79
11	90	85	86	---	e90	190	99	89	73	e88	97	72
12	92	87	84	---	e92	---	101	89	74	e90	100	78
13	94	81	83	156	e92	114	100	94	72	e89	100	78
14	95	80	82	141	e95	73	92	98	75	e90	100	76
15	96	79	82	120	148	70	92	94	78	e93	97	77
16	90	82	87	112	105	75	91	96	80	e96	94	76
17	89	83	87	102	74	78	89	98	81	96	89	78
18	88	84	86	94	78	80	96	88	81	88	90	77
19	89	86	87	86	80	88	102	93	78	79	90	73
20	85	88	82	85	83	94	99	86	75	78	94	71
21	85	85	85	84	85	98	100	81	73	82	95	70
22	89	86	86	86	92	93	102	81	69	85	89	72
23	90	91	84	e88	100	86	102	83	69	90	85	73
24	90	92	82	e109	93	81	103	80	67	96	87	70
25	87	90	79	e113	97	79	99	83	66	90	87	67
26	89	89	81	e105	97	84	90	84	67	88	85	68
27	90	85	86	e95	91	80	96	81	68	91	84	70
28	100	87	81	e95	91	85	95	86	68	91	81	70
29	123	83	80	e90	---	88	94	85	72	95	72	68
30	133	84	81	e87	---	84	94	85	72	96	64	73
31	107	---	81	e84	---	89	---	86	---	99	73	---
TOTAL	2892	2548	2571	---	2581	---	2960	2789	2297	2695	2820	2227
MEAN	93.3	84.9	82.9	---	92.2	---	98.7	90.0	76.6	86.9	91.0	74.2
MAX	133	92	88	---	148	---	115	101	89	99	102	81
MIN	85	79	73	---	74	---	89	80	66	75	64	67
AC-FT	5740	5050	5100	---	5120	---	5870	5530	4560	5350	5590	4420

e Estimated.

10259540 WHITEWATER RIVER NEAR MECCA, CA--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1961 - 1992, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	99.9	94.9	95.0	107	125	124	119	118	107	107	120	115
MAX	147	149	141	236	396	222	172	173	145	198	183	220
(WY)	1976	1966	1983	1969	1980	1978	1976	1976	1975	1979	1983	1976
MIN	53.9	44.4	45.4	51.4	56.6	71.8	77.9	80.7	66.9	57.4	80.3	74.1
(WY)	1961	1961	1961	1961	1961	1961	1961	1992	1987	1987	1992	1992

SUMMARY STATISTICS

WATER YEARS 1961 - 1992

ANNUAL MEAN	111	
HIGHEST ANNUAL MEAN	156	1976
LOWEST ANNUAL MEAN	68.4	1961
HIGHEST DAILY MEAN	2500	Jan 25 1969
LOWEST DAILY MEAN	37	Nov 25 1960
ANNUAL SEVEN-DAY MINIMUM	37	Nov 24 1960
ANNUAL RUNOFF (AC-FT)	80380	
10 PERCENT EXCEEDS	140	
50 PERCENT EXCEEDS	108	
90 PERCENT EXCEEDS	76	

MOJAVE RIVER BASIN

10260500 DEEP CREEK NEAR HESPERIA, CA

LOCATION.--Lat 34°20'28", long 117°13'39", in NE 1/4 SE 1/4 sec.18, T.3 N., R.3 W., San Bernardino County, Hydrologic Unit 18090208, on right bank 0.5 mi upstream from confluence with West Fork Mojave River at Mojave River Forks Dam, 7 mi southeast of Hesperia, and 11 mi downstream from Lake Arrowhead.

DRAINAGE AREA.--134 mi².

PERIOD OF RECORD.--October 1904 to September 1922, October 1929 to current year. Prior to January 1930, monthly discharge only, published in WSP 1314.

REVISED RECORDS.--WSP 1314: 1931(M). WSP 1927: Drainage area.

GAGE.--Water-stage recorder. Broad-crested weir since December 1938. Elevation of gage is 3,050 ft above sea level, from topographic map. See WSP 1314 for history of changes prior to Dec. 10, 1938.

REMARKS.--Records fair except those for estimated daily discharges, which are poor. Slight regulation by Lake Arrowhead, capacity, 48,000 acre-ft, principally used for recreation.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 46,600 ft³/s, Mar. 2, 1938, gage height unknown, on basis of slope-area measurement of peak flow; maximum gage height, 23.81 ft, Feb. 10, 1978 (backwater from Mojave River Forks Reservoir); no flow July 17, 18, 1961.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 400 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Jan. 5	0400	952	3.50	Mar. 5	2230	8,560	7.90
Jan. 10	2000	*11,500	*9.02	Mar. 11	0715	6,620	7.05
Jan. 25	2015	1,690	4.07	Mar. 21	1700	1,740	4.11
Feb. 14	1100	10,400	8.62	Mar. 23	unknown	unknown	unknown

Minimum daily, 2.6 ft³/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	2.6	5.0	9.2	8.6	148	136	e289	96	e61	21	7.7	e4.1
2	2.6	5.0	9.1	8.5	179	128	e268	95	e59	20	7.7	e4.1
3	3.3	5.2	9.3	8.6	177	254	e274	93	e58	20	7.4	e4.1
4	3.8	5.5	9.3	72	151	493	e300	89	e57	19	7.0	e4.2
5	4.3	5.8	9.7	448	133	2590	e288	87	e56	18	6.8	e4.2
6	6.9	5.8	9.8	101	125	3690	e288	87	e55	17	6.5	e4.2
7	7.0	6.2	10	75	117	1090	e259	87	e54	16	6.2	e4.2
8	5.1	6.8	10	1910	111	605	e257	87	e53	15	e6.0	e4.2
9	4.6	6.9	10	1030	100	386	e257	84	e51	14	e5.7	e4.2
10	4.6	7.4	10	3280	89	402	e240	83	e50	13	e5.5	e4.2
11	4.5	8.1	10	4860	84	4100	e225	81	e48	13	e5.2	e4.3
12	4.3	7.9	10	1080	81	2250	e246	78	e47	11	e5.1	e4.3
13	4.5	7.9	10	365	133	1260	e231	77	e44	11	e5.0	4.3
14	4.7	7.8	10	221	7200	918	e217	76	e42	11	e4.7	4.2
15	5.0	7.9	10	304	2450	780	e200	76	e40	10	e4.6	4.1
16	5.8	8.0	10	218	949	602	e191	76	e38	11	e4.5	4.1
17	5.7	8.1	10	148	553	503	e237	76	e37	15	e4.4	4.0
18	5.5	8.2	10	110	410	413	e275	74	e35	13	e4.2	4.1
19	5.4	8.4	10	96	336	364	e163	73	e34	11	e4.2	4.1
20	5.3	8.4	10	85	272	329	117	71	e32	9.7	e4.2	4.2
21	5.3	8.4	10	94	212	743	114	71	e31	9.3	e4.1	4.5
22	5.3	8.4	9.9	135	193	641	110	71	e28	9.0	e4.1	4.7
23	5.0	8.5	10	137	185	e960	107	70	e27	8.7	e4.3	4.7
24	4.9	8.5	11	576	173	e620	105	69	e25	8.6	e4.3	4.9
25	4.7	8.6	80	822	163	e430	103	69	e24	8.5	e4.3	5.3
26	4.9	8.9	29	638	156	e220	102	67	e23	8.4	e4.2	5.6
27	4.7	9.4	14	340	146	e280	101	67	e22	8.2	e4.1	5.7
28	4.9	9.0	9.9	260	139	e270	98	66	e21	8.1	e4.1	5.8
29	4.7	9.0	9.8	220	---	e265	97	65	e21	8.0	e4.1	5.5
30	4.7	9.0	9.3	178	---	e260	97	64	21	7.9	e4.1	5.1
31	4.7	---	8.8	128	---	e264	---	62	---	7.8	e4.1	---
TOTAL	149.3	228.0	398.1	17956.7	15165	26246	5856	2387	1194	381.2	158.4	135.2
MEAN	4.82	7.60	12.8	579	542	847	195	77.0	39.8	12.3	5.11	4.51
MAX	7.0	9.4	80	4860	7200	4100	300	96	61	21	7.7	5.8
MIN	2.6	5.0	8.8	8.5	81	128	97	62	21	7.8	4.1	4.0
AC-FT	296	452	790	35620	30080	52060	11620	4730	2370	756	314	268

e Estimated.

MOJAVE RIVER BASIN

85

10260500 DEEP CREEK NEAR HESPERIA, CA--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1905 - 1995, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	5.28	19.8	57.5	138	210	222	147	63.1	17.6	5.71	3.24	3.63
MAX	42.0	606	843	2062	2028	1539	747	248	67.0	25.9	29.2	54.3
(WY)	1984	1966	1922	1993	1993	1978	1958	1915	1922	1969	1983	1976
MIN	.23	1.14	2.53	4.56	6.07	4.87	3.20	2.37	1.14	.14	.13	.10
(WY)	1934	1957	1905	1951	1951	1956	1951	1934	1956	1961	1933	1933

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR				FOR 1995 WATER YEAR				WATER YEARS 1905 - 1995			
ANNUAL TOTAL	10318.02				70254.9							
ANNUAL MEAN	28.3				192				73.7			
HIGHEST ANNUAL MEAN									411			
LOWEST ANNUAL MEAN									3.06			
HIGHEST DAILY MEAN	1120				7200				14700			
LOWEST DAILY MEAN	.88				2.6				.00			
ANNUAL SEVEN-DAY MINIMUM	1.0				4.1				.07			
INSTANTANEOUS PEAK FLOW					11500				46600			
INSTANTANEOUS PEAK STAGE					9.02				23.81			
ANNUAL RUNOFF (AC-FT)	20470				139400				53370			
10 PERCENT EXCEEDS	62				350				143			
50 PERCENT EXCEEDS	9.7				20				10			
90 PERCENT EXCEEDS	2.2				4.3				1.0			

10260950 WEST FORK MOJAVE RIVER ABOVE MOJAVE RIVER FORKS RESERVOIR, NEAR HESPERIA, CA

LOCATION.--Lat 34°20'20", long 117°15'25", in NW 1/4 NW 1/4 sec.24, T.3 N., R.4 W., San Bernardino County, Hydrologic Unit 18090208, on left bank on upstream wingwall of concrete double-box culvert on Arrowhead Lake Road, 0.1 mi northeast of junction with Highway 174, 4.5 mi downstream from Cedar Springs Dam on Silverwood Lake, and 6.5 mi southeast of Hesperia.

DRAINAGE AREA.--70.3 mi².

PERIOD OF RECORD.--October 1974 to current year. October 1974 to September 1991 published incorrectly as station 10261000. Records for station 10261000 are not equivalent due to difference in drainage area.

REVISED RECORDS.--WDR CA-84: 1983.

GAGE.--Water-stage recorder. Elevation of gage is 3,040 ft above sea level, from topographic map.

REMARKS.--Records poor. Regulated by Silverwood Lake (holding basin for imported water), total capacity, 78,000 acre-ft, 4.5 mi upstream, which releases all natural inflow as soon as possible after a storm.

EXTREMES FOR THE PERIOD OF RECORD.--Maximum discharge, 11,300 ft³/s, Feb. 10, 1978, gage height unknown, on basis of slope-area measurement of peak flow; maximum gage height, 23.2 ft, Feb. 10, 1978, backwater from Mojave River Forks Reservoir; no flow for several months in most years.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum discharge, 26,100 ft³/s, Mar. 2, 1938, gage height unknown, on basis of slope-area measurement of peak flow for station 10261000 at site 1.5 mi downstream.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 3,210 ft³/s, Jan. 10, gage height, 8.10 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	.00	e.00	.00	.00	139	66	138	39	14	8.0	3.0	.00
2	.00	e.00	.00	.00	135	68	135	39	14	8.4	2.1	.00
3	.00	e.00	.00	.00	129	111	131	38	13	8.9	1.6	.00
4	.00	.00	.00	69	126	150	128	38	13	8.6	2.2	.00
5	.00	.00	.00	156	125	349	140	37	12	8.2	2.7	.00
6	.00	.00	.00	166	111	692	150	36	21	6.0	.45	.00
7	.00	.00	.00	244	85	759	148	35	37	4.7	.25	.00
8	.00	.00	.00	405	75	584	146	34	15	5.6	.09	.00
9	.00	.00	.00	541	56	419	142	34	12	6.4	.08	.00
10	.00	.00	.00	1320	55	147	138	33	11	7.2	.07	.00
11	.00	.00	.00	1970	55	1370	134	32	11	6.8	.03	.00
12	.00	.00	.00	359	55	1120	134	30	10	4.7	.00	.00
13	.00	.00	.00	183	114	814	131	30	9.8	4.3	.00	.00
14	.00	.00	.00	90	1580	303	132	29	9.5	4.3	.00	.00
15	.00	.00	.00	105	820	258	132	28	9.6	2.5	.00	.00
16	.00	.00	.00	83	757	207	136	28	9.7	3.8	.00	.00
17	.00	.00	.00	45	513	136	136	26	11	4.2	.00	.00
18	.00	.00	.00	48	148	125	135	24	9.6	3.3	.00	.00
19	.00	.00	.00	45	134	119	111	23	9.7	4.1	.00	.00
20	.00	.00	.00	34	120	115	83	22	9.3	6.1	.00	.00
21	.00	.00	.00	28	91	314	80	20	9.5	5.4	.00	.00
22	.00	.00	.00	28	88	264	77	32	9.2	3.9	.00	.00
23	.00	.00	.00	38	85	481	74	53	9.0	3.0	.00	.00
24	.00	.00	.00	543	82	356	72	50	8.9	2.1	.00	.00
25	.00	.00	.00	778	73	244	69	52	8.6	.28	.00	.00
26	.00	.00	.00	727	71	181	67	42	8.4	4.1	.00	.00
27	.00	.00	.00	350	70	155	65	20	8.3	26	.00	.00
28	.00	.00	.00	131	68	141	58	18	8.2	4.5	.00	.00
29	.00	.00	.00	113	---	130	42	17	8.3	3.6	.00	.00
30	.00	.00	.00	117	---	120	42	17	8.9	2.1	.00	.00
31	e.00	---	.00	146	---	118	---	15	---	3.2	.00	---
TOTAL	0.00	0.00	0.00	8862.00	5960	10416	3306	971	348.5	174.28	12.57	0.00
MEAN	.000	.000	.000	286	213	336	110	31.3	11.6	5.62	.41	.000
MAX	.00	.00	.00	1970	1580	1370	150	53	37	26	3.0	.00
MIN	.00	.00	.00	.00	55	66	42	15	8.2	.28	.00	.00
AC-FT	.00	.00	.00	17580	11820	20660	6560	1930	691	346	25	.00

e Estimated.

10260950 WEST FORK MOJAVE RIVER ABOVE MOJAVE RIVER FORKS RESERVOIR, NEAR HESPERIA, 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	3.20	5.87	16.3	83.4	170	176	58.7	32.6	15.1	1.21	.083	.67
MAX	41.8	50.4	68.6	810	883	948	253	296	169	9.23	1.05	8.29
(WY)	1994	1993	1984	1993	1993	1983	1980	1978	1978	1993	1983	1993
MIN	.000	.000	.000	.000	.61	.24	.000	.000	.000	.000	.000	.000
(WY)	1975	1975	1976	1975	1991	1977	1987	1984	1975	1975	1975	1975

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR			FOR 1995 WATER YEAR			WATER YEARS 1975 - 1995		
ANNUAL TOTAL	3034.70			30050.35					
ANNUAL MEAN	8.31			82.3			46.3		
HIGHEST ANNUAL MEAN							183		
LOWEST ANNUAL MEAN							.94		
HIGHEST DAILY MEAN	463	Feb	8	1970	Jan	11	4900	Feb	10 1978
LOWEST DAILY MEAN	.00	Jan	5	.00	Oct	1	.00	Oct	1 1974
ANNUAL SEVEN-DAY MINIMUM	.00	Jan	5	.00	Oct	1	.00	Oct	1 1974
INSTANTANEOUS PEAK FLOW				3210	Jan	10	11300	Feb	10 1978
INSTANTANEOUS PEAK STAGE				8.10	Jan	10	23.20	Feb	10 1978
ANNUAL RUNOFF (AC-FT)	6020			59600			33520		
10 PERCENT EXCEEDS	6.9			150			72		
50 PERCENT EXCEEDS	.00			8.2			.00		
90 PERCENT EXCEEDS	.00			.00			.00		

10261100 MOJAVE RIVER BELOW MOJAVE RIVER FORKS RESERVOIR, NEAR HESPERIA, CA

LOCATION.--Lat 34°21'17", long 117°14'40", in NE 1/4 NE 1/4 sec.13, T.3 N, R.4 W., San Bernardino County, Hydrologic Unit 18090208, on left bank 0.8 mi downstream from Mojave River Forks Reservoir, 6.2 mi downstream from Silverwood Lake on West Fork Mojave River, 6.5 mi southeast of Hesperia, and 12.2 mi downstream from Lake Arrowhead on Deep Creek (head of Mojave River).

DRAINAGE AREA.--211 mi².

PERIOD OF RECORD.--October 1971 to September 1974, October 1980 to current year. Prior to 1990, published as "below Forks Reservoir" and "below Mojave Forks Reservoir."

GAGE.--Water-stage recorder. Elevation of gage is 3,000 ft above sea level, from topographic map. October 1971 to September 1974, water-stage recorder at site 0.8 mi upstream on reservoir outlet channel at different datum.

REMARKS.--Records fair except those for estimated daily discharges, which are poor. Flow partially regulated by Lake Arrowhead, capacity, 48,000 acre-ft, used principally for recreation; Silverwood Lake, capacity, 78,000 acre-ft, used for the storage and distribution of imported water and recreation; and Mojave River Forks Reservoir, capacity 89,700 acre-ft, used for flood control. Silverwood Lake releases all natural inflow to the West Fork Mojave River as soon as possible after a storm. Sewage effluent from Lake Arrowhead area is released above gage at times.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 21,300 ft³/s, Feb. 8, 1993, maximum gage height, 7.61 ft, Jan. 7, 1993; no flow for many days in some years.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 14,600 ft³/s, Jan. 10, gage height, 6.10 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	.00	.00	e5.9	e8.6	308	217	359	e135	e75	e29	e7.6	e1.6
2	.00	e1.0	e6.0	e8.5	414	198	340	e134	e73	e28	e6.9	e1.6
3	.00	e1.4	e6.1	e8.6	444	367	340	e131	e71	e29	e6.3	e1.6
4	.00	e1.8	e6.3	e141	404	720	358	e127	e70	e28	e5.7	e1.6
5	.00	e2.1	e6.4	605	379	1890	359	e124	e68	e26	e5.1	e1.6
6	.00	e2.5	e6.5	182	287	3060	364	e123	e76	e23	e4.6	e1.6
7	.00	e2.9	e6.6	201	169	1720	340	e122	e91	e21	e4.2	e1.6
8	.00	e3.3	e6.7	1960	191	1090	339	e121	e68	e21	e3.8	e1.6
9	.00	e3.7	e6.8	1840	105	745	339	e118	e63	e20	e3.4	e1.6
10	.00	e4.2	e6.7	4530	103	486	321	e116	e61	e20	e3.0	e1.6
11	.00	e4.2	e6.6	6800	85	3680	306	e113	e59	e20	e2.7	e1.6
12	.00	e4.1	e6.5	998	103	2590	321	e108	e57	e16	e2.4	e1.6
13	.00	e4.1	e6.4	541	145	1730	306	e107	e54	e15	e2.1	e1.6
14	.00	e4.0	e6.1	312	5610	760	295	e105	e51	e15	e1.8	e1.6
15	.00	e4.0	e6.0	414	2140	677	283	e104	e50	e12	e1.6	e1.6
16	.00	e4.0	e6.1	338	1270	568	285	e104	e48	e15	e1.6	e1.6
17	.00	e4.0	e6.1	187	873	462	330	e102	e48	e19	e1.6	e1.6
18	.00	e4.1	e6.1	142	380	422	369	e98	e45	e16	e1.6	e1.7
19	.00	e4.2	e6.1	145	361	388	248	e96	e44	e15	e1.6	e1.7
20	.00	e4.3	e6.1	134	325	364	181	e93	e41	e16	e1.6	e1.7
21	.00	e4.4	e6.1	167	252	844	e194	e91	e40	e15	e1.6	e1.7
22	.00	e4.6	e6.1	212	242	832	e187	e103	e37	e13	e1.6	e1.7
23	.00	e4.7	e6.1	237	237	1140	e181	e123	e36	e12	e1.6	e1.8
24	.00	e4.9	e11	1190	230	866	e177	e119	e34	e11	e1.6	e1.8
25	.00	e5.0	e80	1920	220	698	e172	e121	e33	e8.8	e1.6	e1.8
26	.00	e5.2	e29	1920	226	541	e169	e109	e31	e12	e1.6	e1.8
27	.00	e5.3	e14	902	216	507	e166	e87	e30	e11	e1.6	e1.9
28	.00	e5.4	e9.9	436	211	370	e156	e84	e29	e11	e1.6	e1.9
29	.00	e5.5	e9.8	367	---	363	e139	e82	e29	e10	e1.6	e1.9
30	.00	e5.7	e9.3	295	---	353	e139	e81	e30	e8.0	e1.6	e2.0
31	.00	---	e8.8	253	---	335	---	e77	---	e8.3	e1.6	---
TOTAL	0.00	114.60	316.2	27394.7	15930	28983	8063	3358	1542	525.1	86.8	50.6
MEAN	.000	3.82	10.2	884	569	935	269	108	51.4	16.9	2.80	1.69
MAX	.00	5.7	80	6800	5610	3680	369	135	91	29	7.6	2.0
MIN	.00	.00	5.9	8.5	85	198	139	77	29	8.3	1.6	1.6
AC-FT	.00	227	627	54340	31600	57490	15990	6660	3060	1040	172	100

e Estimated.

10261100 MOJAVE RIVER BELOW MOJAVE RIVER FORKS RESERVOIR, NEAR HESPERIA, 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	7.85	20.5	57.4	251	333	329	150	57.0	18.4	4.02	2.04	1.60
MAX	57.8	73.9	263	2873	2910	2004	544	333	109	17.1	22.7	12.0
(WY)	1984	1983	1972	1993	1993	1983	1983	1983	1993	1983	1983	1993
MIN	.000	.000	.000	.000	11.1	15.0	10.6	.20	.000	.000	.000	.000
(WY)	1986	1989	1990	1991	1987	1972	1972	1990	1989	1985	1985	1984

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR				FOR 1995 WATER YEAR				WATER YEARS 1972 - 1995			
ANNUAL TOTAL	12320.61				86364.00							
ANNUAL MEAN	33.8				237				101			
HIGHEST ANNUAL MEAN									592			
LOWEST ANNUAL MEAN									7.34			
HIGHEST DAILY MEAN	1680				6800				15000			
LOWEST DAILY MEAN	.00				.00				.00			
ANNUAL SEVEN-DAY MINIMUM	.00				.00				.00			
INSTANTANEOUS PEAK FLOW					14600				21300			
INSTANTANEOUS PEAK STAGE					6.10				7.61			
ANNUAL RUNOFF (AC-FT)	24440				171300				73520			
10 PERCENT EXCEEDS	71				451				164			
50 PERCENT EXCEEDS	6.0				28				8.6			
90 PERCENT EXCEEDS	.00				1.6				.00			

MOJAVE RIVER BASIN

10261500 MOJAVE RIVER AT LOWER NARROWS, NEAR VICTORVILLE, CA

LOCATION.--Lat 34°34'23", long 117°19'11", in SW 1/4 SE 1/4 sec.29, T.6 N., R.4 W., San Bernardino County, Hydrologic Unit 18090208, on left bank 650 ft upstream from bridge on county road (formerly U.S. Highway 66), 0.6 mi downstream from Atchison, Topeka, & Santa Fe Railway bridge, and 3 mi northwest of Victorville.

DRAINAGE AREA.--513 mi².

PERIOD OF RECORD.--February 1899 to September 1906, October 1930 to current year. Monthly discharge only for January to September 1906, October, November 1930, published in WSP 1314. Prior to October 1936, published as "at Victorville" and as "near Victorville" in 1937.

CHEMICAL DATA: Specific conductance 1975-81.

WATER TEMPERATURE: Water years 1962-80.

REVISED RECORDS.--WSP 1927: Drainage area.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 2,643.01 ft above sea level. See WSP 1314 for history of gage changes prior to Mar. 28, 1938. Mar. 28, 1938, to Apr. 14, 1966, at site 350 ft upstream at datum 5.00 ft higher; Apr. 15, 1966, to July 17, 1969, at site 350 ft upstream at datum 3.00 ft higher.

REMARKS.--Records poor. Flow regulated by Mojave Forks Reservoir, capacity 89,700 acre-ft, since 1971, 17.8 mi upstream, Silverwood Lake, capacity 78,000 acre-ft, since 1971, and Lake Arrowhead, capacity, 48,000 acre-ft, since 1922. Some water is imported into basin. Diversions and pumping for irrigation and for Mojave State Fish Hatchery upstream from station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 70,600 ft³/s, Mar. 2, 1938, gage height, 23.7 ft, present datum, from rating curve extended above 10,000 ft³/s on basis of slope-area measurement of peak flow; minimum daily, 1.6 ft³/s, July 25 to Aug. 5, 1990.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 8,170 ft³/s, Mar. 12, gage height, 5.10 ft; no flow Sept. 21-23.

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	e4.1	e9.4	e12	e16	64	79	e250	e31	e13	e7.2	e4.4	e2.8
2	e4.3	e9.4	e12	e16	71	78	e250	e31	e13	e7.1	e4.3	e2.8
3	e4.5	e9.6	e12	e17	79	76	e250	e30	e13	e7.1	e4.2	e2.8
4	e4.8	e9.6	e12	e18	71	560	e240	e30	e12	e7.0	e4.1	e2.8
5	e5.0	e9.7	e12	e19	64	936	e240	e29	e12	e6.9	e4.0	e2.8
6	e5.2	e9.8	e12	e22	59	3370	e240	e29	e12	e6.8	e4.0	e2.8
7	e5.4	e9.8	e13	e22	52	1870	e230	e29	e11	e6.7	e3.9	e2.8
8	e5.6	e9.8	e13	e23	35	e1400	e230	e28	e11	e6.6	e3.8	e2.8
9	e5.7	e9.8	e13	e200	29	e900	e225	e28	e11	e6.5	e3.7	e2.7
10	e5.9	e9.8	e13	e1000	32	e520	e225	e27	e10	e6.4	e3.6	e2.7
11	e6.1	e9.9	e13	e2000	30	e2000	e220	e27	e10	e6.3	e3.5	e2.7
12	e6.3	e10	e13	e1200	28	e4500	e220	e26	e10	e6.2	e3.4	e2.7
13	e6.5	e11	e13	e300	29	e2500	e210	e25	e9.5	e6.0	e3.3	e2.7
14	e6.7	e12	e13	103	3410	e1100	e200	e24	e9.5	e5.8	e3.2	e2.7
15	e6.9	e13	e13	71	2600	e800	e190	e23	e9.0	e5.7	e3.1	e2.7
16	e7.0	e13	e14	61	1400	e600	e180	e22	e9.0	e5.6	e3.0	e2.6
17	e7.2	e13	e14	52	1380	e400	e175	e22	e8.5	e5.5	e3.0	e2.6
18	e7.4	e12	e14	44	900	e340	e190	e21	e8.5	e5.4	e3.0	e2.5
19	e7.6	e12	e14	36	722	e320	e130	e21	e8.0	e5.3	e2.9	e2.5
20	e7.7	e11	e14	28	618	e300	109	e20	e8.0	e5.2	e2.9	e1.2
21	e7.9	e11	e14	e26	395	e850	81	e19	e7.8	e5.1	e2.9	.00
22	e8.0	e10	e14	e25	293	e960	e70	e18	e7.8	e5.0	e2.9	e.00
23	e8.2	e10	e14	e25	232	e980	e56	e17	e7.6	e5.0	e2.9	e.00
24	e8.3	e10	e14	e25	204	e1100	e50	e16	e7.6	e4.9	e2.9	e.20
25	e8.4	e11	e14	332	154	e800	e45	e16	e7.4	e4.9	e2.9	e.40
26	e8.6	e11	e14	1010	121	e450	e42	e15	e7.4	e4.8	e2.9	e.80
27	e8.7	e11	e15	567	97	e400	e40	e15	e7.2	e4.8	e2.9	e1.2
28	e8.9	e11	e15	175	79	e280	e36	e14	e7.2	e4.8	e2.8	e1.4
29	e9.0	e11	e15	89	---	e270	e34	e14	e7.2	e4.7	e2.8	e1.6
30	e9.1	e12	e15	63	---	e260	e32	e14	e7.2	e4.6	e2.8	e1.9
31	e9.3	---	e15	57	---	e260	---	e14	---	e4.5	e2.8	---
TOTAL	214.3	321.6	418	7642	13248	29259	4690	695	282.4	178.4	102.8	60.20
MEAN	6.91	10.7	13.5	247	473	944	156	22.4	9.41	5.75	3.32	2.01
MAX	9.3	13	15	2000	3410	4500	250	31	13	7.2	4.4	2.8
MIN	4.1	9.4	12	16	28	76	32	14	7.2	4.5	2.8	.00
AC-FT	425	638	829	15160	26280	58040	9300	1380	560	354	204	119

e Estimated.

10261500 MOJAVE RIVER AT LOWER NARROWS, NEAR VICTORVILLE, 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	25.1	37.0	53.3	103	216	234	131	46.7	22.5	15.5	15.7	17.7
MAX	58.2	222	376	1487	2334	2229	1015	261	157	32.5	29.3	41.7
(WY)	1977	1966	1967	1993	1993	1938	1958	1978	1978	1969	1969	1976
MIN	4.65	10.7	13.5	19.3	18.2	12.6	11.6	9.06	5.69	2.34	2.12	2.01
(WY)	1992	1995	1995	1990	1991	1990	1990	1990	1989	1990	1992	1995

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR				FOR 1995 WATER YEAR				WATER YEARS 1931 - 1995			
ANNUAL TOTAL	4732.2				57111.70							
ANNUAL MEAN	13.0				156				75.7			
HIGHEST ANNUAL MEAN									402			
LOWEST ANNUAL MEAN									12.3			
HIGHEST DAILY MEAN	35				4500				21000			
LOWEST DAILY MEAN	1.9				.00				.00			
ANNUAL SEVEN-DAY MINIMUM	2.0				.37				.37			
INSTANTANEOUS PEAK FLOW					8170				70600			
INSTANTANEOUS PEAK STAGE					5.10				23.70			
ANNUAL RUNOFF (AC-FT)	9390				113300				54810			
10 PERCENT EXCEEDS	28				325				55			
50 PERCENT EXCEEDS	11				12				28			
90 PERCENT EXCEEDS	2.3				2.9				12			

10262500 MOJAVE RIVER AT BARSTOW, CA

LOCATION.--Lat 34°54'25", long 117°01'19", in SW 1/4 SW 1/4 sec.31, T.10 N., R.1 W., San Bernardino County, Hydrologic Unit 18090208, on left bank 75 ft upstream from bridge on U.S. Highway 91 at Barstow.

DRAINAGE AREA.--1,291 mi².

PERIOD OF RECORD.--October 1930 to current year.

REVISED RECORDS.--WSP 1564: 1932.

GAGE.--Water-stage recorder. Datum of gage is 2,089.34 ft above sea level.

REMARKS.--Records poor. Flow regulated by Mojave Forks Reservoir, capacity, 89,700 acre-ft, since 1971, 60 mi upstream, Silverwood Lake, capacity, 78,000 acre-ft, since 1971, and Lake Arrowhead, capacity, 48,000 acre-ft, since 1922. Some water is imported into basin. Diversions and pumping for irrigation of about 15,000 acres upstream from station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 64,300 ft³/s, Mar. 3, 1938, gage height, 8.60 ft on basis of slope-area measurement of peak flow; no flow for all or most of each year.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 3,080 ft³/s, Jan. 11, gage height 1.96 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	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
3	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
5	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
7	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
9	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
11	.00	.00	.00	e1000	.00	e1400	.00	.00	.00	.00	.00	.00
12	.00	.00	.00	e780	.00	e820	.00	.00	.00	.00	.00	.00
13	.00	.00	.00	.00	.00	e620	.00	.00	.00	.00	.00	.00
14	.00	.00	.00	.00	.00	e32	.00	.00	.00	.00	.00	.00
15	.00	.00	.00	.00	e300	.00	.00	.00	.00	.00	.00	.00
16	.00	.00	.00	.00	e600	.00	.00	.00	.00	.00	.00	.00
17	.00	.00	.00	.00	e50	.00	.00	.00	.00	.00	.00	.00
18	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
19	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
20	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
21	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
22	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
23	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
24	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
25	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
26	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
27	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
28	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
29	.00	.00	.00	.00	---	.00	.00	.00	.00	.00	.00	.00
30	.00	.00	.00	.00	---	.00	.00	.00	.00	.00	.00	.00
31	.00	---	.00	.00	---	.00	---	.00	---	.00	.00	---
TOTAL	0.00	0.00	0.00	1780.00	950.00	2872.00	0.00	0.00	0.00	0.00	0.00	0.00
MEAN	.000	.000	.000	57.4	33.9	92.6	.000	.000	.000	.000	.000	.000
MAX	.00	.00	.00	1000	600	1400	.00	.00	.00	.00	.00	.00
MIN	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
AC-FT	.00	.00	.00	3530	1880	5700	.00	.00	.00	.00	.00	.00

e Estimated.

10262500 MOJAVE RIVER AT BARSTOW, 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
EAN	.001	.38	3.62	26.6	100	120	43.7	5.58	.001	.004	.023	.018
AX	.061	20.2	116	747	1640	1962	547	93.5	.080	.090	1.31	.71
WY)	1959	1966	1967	1969	1993	1938	1941	1941	1972	1965	1979	1984
IN	.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

UMMARY STATISTICS	FOR 1994 CALENDAR YEAR	FOR 1995 WATER YEAR	WATER YEARS 1931 - 1995
NNUAL TOTAL		5602.00	
NNUAL MEAN		15.3	24.6
IGHEST ANNUAL MEAN			202
OWEST ANNUAL MEAN			.000
IGHEST DAILY MEAN		1400	Mar 11
OWEST DAILY MEAN	.00 Jan 1	.00 Oct 1	18100
NNUAL SEVEN-DAY MINIMUM	.00 Jan 1	.00 Oct 1	.00
NSTANTANEOUS PEAK FLOW		3080	Jan 11
NSTANTANEOUS PEAK STAGE		1.96	Jan 11
NNUAL RUNOFF (AC-FT)		11110	17800
0 PERCENT EXCEEDS	.00	.00	.00
0 PERCENT EXCEEDS	.00	.00	.00
0 PERCENT EXCEEDS	.00	.00	.00

10263000 MOJAVE RIVER AT AFTON, CA

LOCATION.--Lat 35°02'14", long 116°23'00", in NW 1/4 SE 1/4 sec.18, T.11 N., R.6 E., San Bernardino County, Hydrologic Unit 18090208, on right bank side of right pier of Union Pacific Railroad bridge, 0.3 mi west of Afton, and 63 mi east of Barstow.

DRAINAGE AREA.--2,121 mi².

PERIOD OF RECORD.--October 1929 to September 1932, October 1952 to current year. Records for water year 1930 incomplete; yearly estimate published in WSP 1314. Records for water years 1979 and 1980 incomplete; discharge measurements only were published at that time.

REVISED RECORDS.--WSP 1564: 1931.

GAGE.--Water-stage recorder. Datum of gage is 1,398.15 ft above sea level. Dec. 21, 1929, to Sept. 30, 1932, at site 1.7 mi downstream at different datum; October 1952 to May 1978, at datum 2 ft higher.

REMARKS.--Records poor. Natural flow affected by ground-water withdrawals, diversions, municipal use, and storage in reservoirs 100 mi upstream. For description of upstream reservoirs see Mojave River at Barstow (station 10262500).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 18,000 ft³/s, Jan. 26, 1969, gage height, 12.40 ft (present datum), from rating curve extended above 3,200 ft³/s on basis of slope-area measurement of peak flow; no flow at times during many years.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 100 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Jan. 11	1615	*14	*2.24				

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	1.7	.67	1.1	1.1	.96	.43	e.73	.39	.16	.03	.00	.03
2	1.7	.69	1.1	1.1	.96	.43	e.74	.39	.14	.03	.00	.05
3	1.6	.70	.97	1.1	.93	.43	e.75	.40	.12	.02	.00	.06
4	1.7	.73	.96	1.7	.89	.37	e.76	.37	.11	.02	.00	.04
5	1.9	.76	.96	2.2	.87	.40	e.76	.37	.10	.03	.00	.03
6	1.8	.76	.96	1.4	.85	.42	e.76	.39	.10	.02	.00	.04
7	1.8	.77	.96	1.5	.88	.39	e.77	.40	.11	.02	.00	.04
8	1.7	.80	.96	1.5	.85	.38	e.77	.40	.16	.02	.00	.03
9	1.6	.81	.92	1.6	.84	.38	e.77	.39	.14	.02	.00	.03
10	1.6	.83	.96	3.1	.84	.37	e.77	.36	.14	.03	.00	.05
11	1.5	.84	.99	7.0	.81	.43	e.77	.35	.13	.04	.00	.06
12	1.4	.84	1.0	2.0	.74	e.47	e.78	.33	.11	.02	.00	.06
13	1.3	.84	.99	1.2	.73	e.50	e.78	.34	.08	.02	.02	.06
14	1.7	.84	1.0	1.1	.82	e.52	e.77	.32	.06	.03	.01	.07
15	1.8	.89	1.0	1.1	.74	e.54	e.75	.33	.07	.03	.01	.07
16	1.5	.89	1.0	.98	.71	e.56	e.73	.33	.10	.04	.01	.07
17	1.5	.88	1.0	.97	.69	e.58	e.73	.30	.13	.05	.00	.07
18	1.5	.91	1.0	.98	.68	e.60	e.71	.28	.13	.04	.00	.07
19	1.5	.89	1.0	.97	.64	e.62	.70	.30	.11	.03	.02	.08
20	1.4	.91	1.0	1.0	.64	e.62	.65	.27	.10	.02	.03	.08
21	1.3	.96	1.0	1.0	.63	e.64	.64	.25	.09	.02	.04	.08
22	1.2	.96	1.1	.97	.56	e.65	.62	.24	.09	.01	.04	.09
23	1.2	.96	1.1	1.0	.53	e.67	.60	.24	.09	.01	.03	.09
24	1.2	.99	1.1	1.0	.53	e.69	.54	.23	.08	.02	.03	.09
25	1.1	1.0	1.4	.97	.54	e.70	.54	.20	.07	.01	.02	.10
26	.94	1.0	1.2	.96	.50	e.70	.50	.21	.07	.01	.02	.11
27	.91	.96	1.1	.96	.48	e.71	.48	.20	.07	.01	.02	.12
28	.87	1.0	1.1	.96	.45	e.71	.46	.21	.05	.00	.02	.13
29	.77	1.0	1.1	.96	---	e.72	.44	.19	.04	.00	.02	.14
30	.74	1.0	1.2	.96	---	e.72	.39	.17	.03	.00	.02	.16
31	.74	---	1.1	.96	---	e.73	---	.16	---	.00	.02	---
TOTAL	43.17	26.08	32.33	44.30	20.29	17.08	20.16	9.31	2.98	0.65	0.38	2.20
MEAN	1.39	.87	1.04	1.43	.72	.55	.67	.30	.099	.021	.012	.073
MAX	1.9	1.0	1.4	7.0	.96	.73	.78	.40	.16	.05	.04	.16
MIN	.74	.67	.92	.96	.45	.37	.39	.16	.03	.00	.00	.03
AC-FT	86	52	64	88	40	34	40	18	5.9	1.3	.8	4.4

e Estimated.

10263000 MOJAVE RIVER AT AFTON, 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
EAN	.79	.98	2.94	14.8	47.9	19.4	3.07	.70	.44	.51	1.46	.78
AX	2.97	2.29	63.9	347	876	415	56.4	1.80	1.58	3.13	18.0	4.30
WY)	1993	1981	1966	1969	1993	1978	1969	1931	1981	1967	1984	1988
IN	.000	.000	.21	.34	.59	.22	.20	.099	.000	.000	.000	.000
WY)	1967	1969	1978	1976	1975	1975	1977	1977	1976	1966	1966	1966

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR				FOR 1995 WATER YEAR				WATER YEARS 1930 - 1995			
ANNUAL TOTAL	247.54				218.93							
ANNUAL MEAN	.68				.60				7.58			
HIGHEST ANNUAL MEAN									100			
LOWEST ANNUAL MEAN									.22			
HIGHEST DAILY MEAN	4.4 Mar 19				7.0 Jan 11				10000 Feb 20 1993			
LOWEST DAILY MEAN	.00 Jun 25				.00 Jul 28				.00 Jun 28 1961			
ANNUAL SEVEN-DAY MINIMUM	.00 Jun 29				.00 Jul 28				.00 Jul 14 1961			
INSTANTANEOUS PEAK FLOW					14 Jan 11				18000 Jan 26 1969			
INSTANTANEOUS PEAK STAGE					2.24 Jan 11				12.40 Jan 26 1969			
ANNUAL RUNOFF (AC-FT)	491				434				5490			
0 PERCENT EXCEEDS	1.4				1.2				1.7			
0 PERCENT EXCEEDS	.69				.56				.80			
0 PERCENT EXCEEDS	.00				.02				.06			

ANTELOPE VALLEY

10263500 BIG ROCK CREEK NEAR VALYERMO, CA

LOCATION.--Lat 34°25'15", long 117°50'19", in SE 1/4 NE 1/4 sec.20, T.4 N., R.9 W., Los Angeles County, Hydrologic Unit 18090206, on left bank 0.1 mi upstream from Punchbowl Canyon and 1.9 mi southeast of Valyermo.

DRAINAGE AREA.--22.9 mi².

PERIOD OF RECORD.--January 1923 to current year. Monthly discharge only for June 1938 to January 1939, published in WSP 1314. Prior to October 1954, published as Rock Creek near Valyermo.

REVISED RECORDS.--WSP 1314: 1938-39. WSP 1564: 1932, 1937, 1939(M). WSP 1927: Drainage area.

GAGE.--Water-stage recorder. Elevation of gage is 4,050 ft above sea level, from topographic map. Prior to May 4, 1938, at same site at different datums. May 4, 1938, to Jan. 26, 1939, at site 0.2 mi downstream (below Punchbowl Canyon) at different datum.

REMARKS.--No estimated daily discharges. Records good except July 19 to Aug. 3, which are poor. No regulation or diversion upstream from station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 8,300 ft³/s, Mar. 2, 1938, gage height unknown, on basis of slope-area measurement of peak flow; minimum daily, 0.70 ft³/s, Nov. 5, 1951.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 50 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Jan. 10	1515	*494	*3.64	Mar. 11	0600	441	3.55
Jan. 22	0430	182	2.95	Mar. 21	1130	286	3.23
Feb. 14	1030	452	3.57	May 1	2200	66	2.44
Mar. 5	2330	258	3.16				

Minimum daily, 2.3 ft³/s, Oct. 12, 13, Nov. 3, 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	2.6	2.4	2.6	3.6	42	45	84	62	43	22	20	10
2	2.6	2.4	2.6	3.6	40	44	82	63	42	27	20	10
3	2.6	2.3	2.6	3.8	38	64	78	61	41	36	19	10
4	2.7	2.3	2.6	8.5	35	68	77	60	40	25	16	10
5	2.7	2.4	2.6	6.5	33	128	77	58	40	23	16	10
6	2.7	2.4	3.0	4.5	34	173	72	56	40	22	16	9.6
7	2.7	2.4	3.4	5.9	33	99	72	53	40	23	16	9.4
8	2.6	2.4	3.6	37	31	82	72	52	36	21	16	9.5
9	2.6	2.4	3.6	79	29	74	72	51	33	18	17	9.3
10	2.5	2.6	3.6	174	29	109	72	52	31	18	18	9.2
11	2.4	2.5	3.6	56	26	321	66	53	29	19	18	8.8
12	2.3	2.4	3.6	51	25	207	66	54	28	19	17	8.4
13	2.3	2.5	3.6	40	30	169	64	55	26	19	17	8.4
14	2.4	2.6	3.6	34	299	147	66	53	26	19	17	8.3
15	2.4	2.6	3.6	31	165	140	63	50	27	19	18	8.0
16	2.4	2.6	3.6	29	106	129	64	48	30	19	18	7.9
17	2.4	2.6	3.6	26	87	120	61	45	28	17	16	7.6
18	2.6	2.6	3.6	25	74	111	59	44	26	17	16	7.3
19	2.8	2.6	3.6	22	66	106	56	45	24	15	15	7.3
20	2.5	2.8	3.6	40	61	103	53	46	23	17	15	7.2
21	2.5	2.8	3.6	111	57	194	53	47	22	18	13	6.9
22	2.5	2.8	3.4	144	55	158	51	47	21	18	13	6.7
23	2.4	2.8	3.4	88	54	142	49	47	19	20	13	6.6
24	2.5	2.9	3.4	66	52	122	49	47	18	22	13	6.8
25	2.5	2.7	4.1	52	51	114	49	47	17	22	12	6.9
26	2.5	2.7	4.0	45	49	107	50	45	17	22	12	6.9
27	2.5	2.7	3.7	41	47	103	50	46	22	22	12	6.9
28	2.4	2.6	3.6	40	46	99	51	44	31	22	11	6.8
29	2.4	2.6	3.6	42	---	93	53	42	25	22	11	6.9
30	2.4	2.6	3.6	45	---	89	58	41	23	21	11	6.9
31	2.4	---	3.6	44	---	87	---	42	---	21	10	---
TOTAL	77.8	77.0	106.2	1398.4	1694	3747	1889	1556	868	645	472	244.5
MEAN	2.51	2.57	3.43	45.1	60.5	121	63.0	50.2	28.9	20.8	15.2	8.15
MAX	2.8	2.9	4.1	174	299	321	84	63	43	36	20	10
MIN	2.3	2.3	2.6	3.6	25	44	49	41	17	15	10	6.6
AC-FT	154	153	211	2770	3360	7430	3750	3090	1720	1280	936	485

10263500 BIG ROCK CREEK NEAR VALYERMO, 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	5.18	7.56	10.6	19.2	31.3	39.0	31.7	28.1	19.1	11.1	8.00	6.38
MAX	19.0	116	67.0	245	303	432	144	120	91.4	42.2	26.5	19.7
WY)	1984	1966	1947	1969	1980	1978	1978	1941	1978	1983	1983	1983
MIN	1.05	1.09	1.80	2.10	2.39	2.40	2.67	2.35	1.61	1.15	1.09	1.01
WY)	1952	1952	1991	1951	1951	1951	1951	1951	1961	1961	1961	1961

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1923 - 1995	
ANNUAL TOTAL	2222.7		12774.9			
ANNUAL MEAN	6.09		35.0		18.1	
HIGHEST ANNUAL MEAN					90.9	
LOWEST ANNUAL MEAN					1.91	
HIGHEST DAILY MEAN	24 Mar 20		321 Mar 11		3300 Mar 2 1938	
LOWEST DAILY MEAN	2.3 Jul 27		2.3 Oct 12		.70 Nov 5 1951	
ANNUAL SEVEN-DAY MINIMUM	2.3 Jul 24		2.4 Oct 11		.87 Nov 3 1951	
INSTANTANEOUS PEAK FLOW			494 Jan 10		8300 Mar 2 1938	
INSTANTANEOUS PEAK STAGE			3.64 Jan 10			
ANNUAL RUNOFF (AC-FT)	4410		25340		13100	
0 PERCENT EXCEEDS	12		80		38	
50 PERCENT EXCEEDS	4.6		21		7.5	
100 PERCENT EXCEEDS	2.5		2.6		2.7	

10265150 HOT CREEK AT FLUME, NEAR MAMMOTH, CA

LOCATION.--Lat 37°40'08", long 118°49'00", in SW 1/4 SE 1/4 sec.19, T.3 S., R.29 E., Mono County, Hydrologic Unit 18090102, on right bank 2.6 mi north of Whitmore Hot Springs and 8.4 mi east of Mammoth.

DRAINAGE AREA.--68.3 mi².

PERIOD OF RECORD.--November 1982 to current year. Daily discharges for 1986 published in Water-Resources

Investigations Report 89-4033 as "Hot Creek Flume."

SPECIFIC CONDUCTANCE: Water years 1983-88.

WATER TEMPERATURE: Water years 1983-88.

GAGE.--Water-stage recorder and Parshall flume. Elevation of gage is 6,950 ft above sea level, from topographic map.

REMARKS.--No estimated daily discharges. Records good. Minor diversions for domestic and agricultural use upstream from station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 292 ft³/s, July 10, 1995, gage height, 3.50 ft; minimum daily, 29 ft³/s, several days in 1992.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 80 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
July 10	1315	*292	*3.50				

Minimum daily, 30 ft³/s, Nov. 18, 26.

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	32	33	33	34	38	38	46	93	108	247	178	104
2	31	34	33	34	38	38	48	82	132	241	170	108
3	31	34	34	35	38	38	49	71	142	244	162	109
4	33	33	34	34	37	37	51	69	146	238	166	114
5	35	35	34	34	37	40	53	67	155	236	162	113
6	33	38	34	34	37	39	55	63	167	245	160	111
7	33	35	33	35	37	38	62	61	164	261	165	107
8	33	34	33	35	37	38	58	61	143	263	159	102
9	32	34	33	36	37	48	52	64	125	267	149	100
10	32	34	34	37	36	50	54	66	116	283	135	99
11	31	31	34	35	36	43	59	70	119	280	129	100
12	31	32	34	35	36	41	60	71	125	254	131	97
13	32	32	34	35	34	41	57	69	151	222	135	94
14	32	31	34	36	35	43	52	61	179	198	134	93
15	32	31	34	36	36	45	51	55	194	185	128	91
16	32	31	34	36	37	45	50	56	190	179	121	90
17	32	31	34	36	37	45	50	56	169	191	115	88
18	32	30	35	36	36	51	50	62	142	193	119	87
19	32	31	34	36	36	58	50	62	131	190	129	87
20	32	32	34	37	37	61	49	70	128	191	129	85
21	31	32	34	37	37	53	49	75	126	192	125	83
22	31	32	34	37	37	47	48	80	129	195	115	83
23	31	32	34	37	37	46	48	87	135	198	135	82
24	31	31	34	37	38	43	49	103	152	190	145	82
25	31	31	34	38	38	44	51	105	176	177	125	81
26	32	30	35	37	38	44	53	92	202	165	117	81
27	31	31	35	38	38	45	54	95	214	159	117	79
28	31	32	35	37	38	45	55	91	225	170	116	77
29	31	33	35	37	---	44	61	89	244	185	112	77
30	31	33	34	37	---	44	88	96	255	201	104	77
31	32	---	34	38	---	45	---	102	---	197	101	---
TOTAL	986	973	1054	1116	1033	1377	1612	2344	4784	6637	4188	2781
MEAN	31.8	32.4	34.0	36.0	36.9	44.4	53.7	75.6	159	214	135	92.7
MAX	35	38	35	38	38	61	88	105	255	283	178	114
MIN	31	30	33	34	34	37	46	55	108	159	101	77
AC-FT	1960	1930	2090	2210	2050	2730	3200	4650	9490	13160	8310	5520

OWENS LAKE BASIN

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10265150 HOT CREEK AT FLUME, NEAR MAMMOTH, 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	37.0	36.7	34.5	35.0	35.6	38.7	42.3	54.6	81.9	81.6	59.1	48.3
MAX	47.8	43.7	40.6	38.7	38.1	44.4	53.7	76.6	159	214	135	92.7
(WY)	1994	1994	1994	1994	1990	1995	1995	1993	1995	1995	1995	1995
MIN	31.8	32.4	29.6	31.9	32.7	35.0	35.4	38.4	44.5	38.4	35.6	32.6
(WY)	1995	1995	1993	1993	1993	1992	1992	1991	1992	1990	1994	1994

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR				FOR 1995 WATER YEAR				WATER YEARS 1990 - 1995			
ANNUAL TOTAL	14117				28885							
ANNUAL MEAN	38.7				79.1				48.8			
HIGHEST ANNUAL MEAN									79.1			
LOWEST ANNUAL MEAN									37.5			
HIGHEST DAILY MEAN	78				283				283			
LOWEST DAILY MEAN	30				30				29			
ANNUAL SEVEN-DAY MINIMUM	31				31				29			
INSTANTANEOUS PEAK FLOW					292				292			
INSTANTANEOUS PEAK STAGE					3.50				3.50			
ANNUAL RUNOFF (AC-FT)	28000				57290				35380			
10 PERCENT EXCEEDS	47				177				77			
50 PERCENT EXCEEDS	37				49				38			
90 PERCENT EXCEEDS	32				32				33			

10265160 LITTLE HOT CREEK BELOW HOT SPRINGS, NEAR MAMMOTH LAKES, CA

LOCATION.--Lat 37°41'25", long 118°50'29", in SW 1/4 NW 1/4 sec.13, T.3 S., R.28 E., Mono County, Hydrologic Unit 18090102, Inyo National Forest, on left bank 3.6 mi upstream from Owens River, 4.5 mi north of Whitmore Hot Springs, and 7.3 mi northeast of Mammoth Lakes.

DRAINAGE AREA.--6.37 mi².

PERIOD OF RECORD.--January 1990 to current year.

GAGE.--Water-stage recorder and V-notch sharp-crested weir. Elevation of gage is 6,990 ft above sea level, from topographic map.

REMARKS.--No estimated daily discharges. Records good. No storage or diversion upstream from station. Most of the water originates from hot springs 300 ft upstream.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 0.82 ft³/s, July 30, 1991, gage height, 0.61 ft; minimum daily, 0.32 ft³/s, Jan. 19, 26-30, 1995.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 2 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Apr. 11	1715	*0.70	*0.58				
Minimum daily, 0.32 ft ³ /s, Jan. 19, 26-30.							

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	.36	.36	.36	.36	.33	.36	.41	.37	.36	.34	.35	.36
2	.36	.36	.36	.36	.33	.36	.43	.36	.36	.34	.33	.36
3	.36	.36	.36	.36	.33	.35	.44	.36	.36	.34	.34	.36
4	.38	.36	.36	.36	.33	.35	.45	.36	.36	.34	.34	.35
5	.38	.36	.36	.36	.33	.36	.45	.37	.36	.34	.34	.36
6	.36	.36	.36	.36	.34	.35	.49	.36	.37	.34	.34	.36
7	.36	.36	.36	.37	.34	.34	.50	.36	.38	.34	.34	.36
8	.36	.36	.36	.36	.34	.35	.46	.36	.37	.34	.34	.36
9	.36	.36	.37	.36	.34	.39	.44	.36	.36	.34	.34	.36
10	.36	.36	.38	.39	.34	.44	.45	.36	.36	.34	.34	.36
11	.36	.36	.38	.36	.34	.42	.50	.36	.36	.34	.34	.34
12	.36	.36	.38	.36	.34	.39	.49	.36	.36	.34	.34	.34
13	.36	.36	.38	.36	.34	.39	.47	.36	.36	.34	.35	.35
14	.36	.36	.36	.36	.36	.39	.45	.36	.37	.34	.35	.35
15	.36	.36	.35	.37	.34	.40	.44	.36	.36	.34	.35	.35
16	.36	.36	.35	.36	.34	.40	.44	.36	.36	.34	.35	.35
17	.36	.36	.35	.34	.34	.41	.42	.36	.35	.34	.35	.35
18	.36	.36	.36	.34	.34	.44	.43	.36	.34	.34	.35	.36
19	.36	.36	.36	.32	.34	.46	.42	.36	.35	.34	.35	.35
20	.36	.36	.36	.33	.34	.50	.36	.36	.34	.34	.36	.36
21	.36	.36	.36	.34	.34	.49	.35	.36	.34	.34	.35	.36
22	.36	.36	.36	.33	.34	.44	.36	.36	.34	.34	.35	.36
23	.36	.36	.36	.34	.34	.43	.36	.36	.33	.34	.35	.36
24	.36	.36	.36	.34	.34	.41	.36	.36	.33	.35	.35	.36
25	.36	.37	.36	.34	.35	.40	.36	.36	.34	.35	.35	.36
26	.36	.37	.36	.32	.36	.39	.36	.36	.34	.35	.35	.36
27	.35	.36	.36	.32	.36	.39	.36	.36	.34	.35	.35	.36
28	.36	.36	.36	.32	.36	.39	.36	.36	.34	.35	.35	.36
29	.36	.36	.36	.32	---	.40	.37	.36	.34	.35	.35	.36
30	.36	.36	.36	.32	---	.40	.36	.36	.34	.35	.35	.36
31	.36	---	.36	.33	---	.40	---	.36	---	.35	.35	---
TOTAL	11.19	10.82	11.22	10.76	9.56	12.39	12.54	11.18	10.57	10.62	10.74	10.69
MEAN	.36	.36	.36	.35	.34	.40	.42	.36	.35	.34	.35	.36
MAX	.38	.37	.38	.39	.36	.50	.50	.37	.38	.35	.36	.36
MIN	.35	.36	.35	.32	.33	.34	.35	.36	.33	.34	.33	.34
AC-FT	22	21	22	21	19	25	25	22	21	21	21	21

OWENS LAKE BASIN

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10265160 LITTLE HOT CREEK BELOW HOT SPRINGS, NEAR MAMMOTH LAKES, 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	.40	.40	.40	.39	.38	.40	.42	.37	.37	.37	.38	.39
MAX	.47	.45	.45	.41	.41	.45	.45	.40	.39	.41	.44	.44
(WY)	1992	1992	1992	1991	1993	1991	1991	1992	1991	1991	1991	1991
MIN	.36	.36	.35	.35	.34	.35	.36	.36	.35	.34	.35	.36
(WY)	1995	1993	1993	1995	1995	1994	1994	1995	1995	1995	1995	1995

SUMMARY STATISTICS FOR 1994 CALENDAR YEAR FOR 1995 WATER YEAR WATER YEARS 1991 - 1995

ANNUAL TOTAL	132.87	132.28	
ANNUAL MEAN	.36	.36	.39
HIGHEST ANNUAL MEAN			.42 1991
LOWEST ANNUAL MEAN			.36 1995
HIGHEST DAILY MEAN	.41 Sep 28	.50 Mar 20	.54 Mar 4 1991
LOWEST DAILY MEAN	.34 Feb 12	.32 Jan 19	.32 Jan 19 1995
ANNUAL SEVEN-DAY MINIMUM	.34 Feb 21	.32 Jan 26	.32 Jan 26 1995
INSTANTANEOUS PEAK FLOW		.70 Apr 11	.82 Jul 30 1991
INSTANTANEOUS PEAK STAGE		.58 Apr 11	.61 Jul 30 1991
ANNUAL RUNOFF (AC-FT)	264	262	283
10 PERCENT EXCEEDS	.38	.39	.44
50 PERCENT EXCEEDS	.36	.36	.38
90 PERCENT EXCEEDS	.35	.34	.35

10268225 MCGEE CREEK DIVERSION NEAR BISHOP, CA

LOCATION.--Lat 37°16'32", long 118°37'09", unsurveyed, T.8 S., R.31 E., Inyo County, Hydrologic Unit 18090102, Inyo National Forest, on left bank 5 ft downstream from outlet of diversion pipe, 80 ft upstream from tributary to Birch Creek, and 13.5 mi southwest of Bishop.

PERIOD OF RECORD.--October 1990 to current year. Unpublished records prior to October 1990 available in files of Southern California Edison Co.

GAGE.--Water-stage recorder and Cipolletti weir. Elevation of gage is 8,630 ft above sea level, from topographic map.

REMARKS.--No estimated daily discharges. Flow limited by size of diversion pipe from McGee Creek. Water flows down Birch Creek and then is diverted to Bishop Creek Powerplant No. 2 Conduit via Birch-McGee Creek Diversion (station 10270900).

COOPERATION.--Records collected by Southern California Edison 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, 22 ft³/s, July 10, 11, 1995; no discharge Oct. 1, 1994, to June 11, 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	.00	.00	.00	.00	.00	.00	.00	.00	.00	16	18	6.3
2	.00	.00	.00	.00	.00	.00	.00	.00	.00	16	17	6.2
3	.00	.00	.00	.00	.00	.00	.00	.00	.00	16	16	6.1
4	.00	.00	.00	.00	.00	.00	.00	.00	.00	15	16	6.0
5	.00	.00	.00	.00	.00	.00	.00	.00	.00	16	17	6.1
6	.00	.00	.00	.00	.00	.00	.00	.00	.00	17	16	6.3
7	.00	.00	.00	.00	.00	.00	.00	.00	.00	17	16	6.5
8	.00	.00	.00	.00	.00	.00	.00	.00	.00	18	14	6.3
9	.00	.00	.00	.00	.00	.00	.00	.00	.00	21	14	6.0
10	.00	.00	.00	.00	.00	.00	.00	.00	.00	22	13	5.5
11	.00	.00	.00	.00	.00	.00	.00	.00	.00	22	12	5.2
12	.00	.00	.00	.00	.00	.00	.00	.00	2.4	20	11	4.9
13	.00	.00	.00	.00	.00	.00	.00	.00	6.4	17	10	4.6
14	.00	.00	.00	.00	.00	.00	.00	.00	7.2	16	9.7	4.3
15	.00	.00	.00	.00	.00	.00	.00	.00	6.8	15	9.5	6.7
16	.00	.00	.00	.00	.00	.00	.00	.00	5.8	16	9.5	8.4
17	.00	.00	.00	.00	.00	.00	.00	.00	4.9	16	9.3	8.1
18	.00	.00	.00	.00	.00	.00	.00	.00	4.1	17	9.1	7.8
19	.00	.00	.00	.00	.00	.00	.00	.00	3.5	17	8.9	7.5
20	.00	.00	.00	.00	.00	.00	.00	.00	3.0	17	8.8	7.0
21	.00	.00	.00	.00	.00	.00	.00	.00	2.8	17	8.6	6.7
22	.00	.00	.00	.00	.00	.00	.00	.00	2.8	17	8.3	6.4
23	.00	.00	.00	.00	.00	.00	.00	.00	4.1	16	8.3	6.1
24	.00	.00	.00	.00	.00	.00	.00	.00	5.8	16	8.3	5.8
25	.00	.00	.00	.00	.00	.00	.00	.00	7.4	16	8.4	5.4
26	.00	.00	.00	.00	.00	.00	.00	.00	9.5	15	8.2	5.1
27	.00	.00	.00	.00	.00	.00	.00	.00	11	15	8.0	4.8
28	.00	.00	.00	.00	.00	.00	.00	.00	13	16	7.7	4.1
29	.00	.00	.00	.00	---	.00	.00	.00	12	17	7.3	3.2
30	.00	.00	.00	.00	---	.00	.00	.00	14	20	6.9	3.0
31	.00	---	.00	.00	---	.00	---	.00	---	19	6.6	---
TOTAL	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	126.50	531	341.4	176.4
MEAN	.000	.000	.000	.000	.000	.000	.000	.000	4.22	17.1	11.0	5.88
MAX	.00	.00	.00	.00	.00	.00	.00	.00	14	22	18	8.4
MIN	.00	.00	.00	.00	.00	.00	.00	.00	.00	15	6.6	3.0
AC-FT	.00	.00	.00	.00	.00	.00	.00	.00	251	1050	677	350

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	2.17	1.06	.84	.63	.58	.71	1.20	3.03	7.17	10.3	6.86	4.94
MAX	3.94	1.51	1.20	.88	.83	1.01	1.88	5.57	10.2	17.1	11.0	7.71
(WY)	1993	1994	1994	1994	1994	1994	1994	1993	1993	1995	1995	1993
MIN	.000	.000	.000	.000	.000	.000	.000	.000	4.22	5.55	4.63	2.71
(WY)	1995	1995	1995	1995	1995	1995	1995	1995	1995	1992	1992	1992

SUMMARY STATISTICS

FOR 1994 CALENDAR YEAR

FOR 1995 WATER YEAR

WATER YEARS 1991 - 1995

ANNUAL TOTAL	1022.40	1175.30	
ANNUAL MEAN	2.80	3.22	3.31
HIGHEST ANNUAL MEAN			4.67
LOWEST ANNUAL MEAN			2.58
HIGHEST DAILY MEAN	13	Jun 14	22 Jul 10 1995
LOWEST DAILY MEAN	.00	Oct 1	.00 Oct 1 1994
ANNUAL SEVEN-DAY MINIMUM	.00	Oct 1	.00 Oct 1 1994
ANNUAL RUNOFF (AC-FT)	2030	2330	2400
10 PERCENT EXCEEDS	8.3	15	8.9
50 PERCENT EXCEEDS	1.1	.00	1.4
90 PERCENT EXCEEDS	.00	.00	.00

10270680 GREEN CREEK CONDUIT OUTLET NEAR BISHOP, CA

LOCATION.--Lat 37°10'14", long 118°33'50", unsurveyed, T.9 S., R.31 E., Inyo County, Hydrologic Unit 18090102, Inyo National Forest, on right bank 75 ft downstream from outlet of diversion pipe, 0.1 mi upstream from South Lake, and 16.2 mi southwest of Bishop.

PERIOD OF RECORD.--October 1990 to current year. Unpublished records prior to October 1990 available in files of Southern California Edison Co.

GAGE.--Water-stage recorder and Parshall flume. Elevation of gage is 9,800 ft above sea level, from topographic map.

REMARKS.--Flow limited by size of diversion pipe from Green Creek. Water is used for power development downstream from South lake.

COOPERATION.--Records collected by Southern California Edison 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, 6.7 ft³/s, June 26, 27, 1993, no flow for many days each year.

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	.00	.00	.00	.00	e1.7	1.9	.35	.00
2	.00	.00	.00	.00	.00	.00	.00	.00	e1.6	1.8	.32	.00
3	.00	.00	.00	.00	.00	.00	.00	.00	e1.5	1.8	.28	.00
4	.00	.00	.00	.00	.00	.00	.00	.00	e1.2	1.7	.26	.00
5	.00	.00	.00	.00	.00	.00	.00	.00	e1.4	1.7	.25	.00
6	.00	.00	.00	.00	.00	.00	.00	.00	e1.2	1.7	.21	.00
7	.00	.00	.00	.00	.00	.00	.00	.00	e1.1	1.7	.19	.00
8	.00	.00	.00	.00	.00	.00	.00	.00	e1.0	1.7	.19	.00
9	.00	.00	.00	.00	.00	.00	.00	.00	e1.0	1.7	.14	.00
10	.00	.00	.00	.00	.00	.00	.00	.00	e1.4	1.7	.06	.00
11	.00	.00	.00	.00	.00	.00	.00	.00	e1.6	1.7	.06	.00
12	.00	.00	.00	.00	.00	.00	.00	.00	1.9	1.4	.05	.00
13	.00	.00	.00	.00	.00	.00	.00	.00	2.0	1.2	.05	.00
14	.00	.00	.00	.00	.00	.00	.00	.00	1.7	1.1	.04	.00
15	.00	.00	.00	.00	.00	.00	.00	.00	1.4	.99	.02	.00
16	.00	.00	.00	.00	.00	.00	.00	.00	1.3	.95	.01	.00
17	.00	.00	.00	.00	.00	.00	.00	.00	1.1	1.1	.01	.00
18	.00	.00	.00	.00	.00	.00	.00	.00	1.1	1.0	.01	.00
19	.00	.00	.00	.00	.00	.00	.00	e.01	1.2	.88	.00	.00
20	.00	.00	.00	.00	.00	.00	.00	e.25	1.3	.76	.01	.00
21	.00	.00	.00	.00	.00	.00	.00	e.45	1.4	.68	.02	.00
22	.00	.00	.00	.00	.00	.00	.00	e.55	1.6	.63	.02	.00
23	.00	.00	.00	.00	.00	.00	.00	e.68	1.8	.57	.01	.00
24	.00	.00	.00	.00	.00	.00	.00	e.78	2.0	.51	.00	.00
25	.00	.00	.00	.00	.00	.00	.00	e.90	2.2	.47	.00	.00
26	.00	.00	.00	.00	.00	.00	.00	e.99	2.1	.45	.00	.00
27	.00	.00	.00	.00	.00	.00	.00	e1.1	2.1	.42	.00	.00
28	.00	.00	.00	.00	.00	.00	.00	e1.3	2.0	.39	.00	.00
29	.00	.00	.00	.00	---	.00	.00	e1.3	1.9	.37	.00	.00
30	.00	.00	.00	.00	---	.00	.00	e1.5	1.8	.37	.00	.00
31	.00	---	.00	.00	---	.00	---	e1.6	---	.36	.00	---
TOTAL	0.00	0.00	0.00	0.00	0.00	0.00	0.00	11.41	46.6	33.70	2.56	0.00
MEAN	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.37	1.55	1.09	.083	.0000
MAX	.00	.00	.00	.00	.00	.00	.00	1.6	2.2	1.9	.35	.00
MIN	.00	.00	.00	.00	.00	.00	.00	.00	1.0	.36	.00	.00
AC-FT	.00	.00	.00	.00	.00	.00	.00	23	92	67	5.1	.00

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1991 - 1995, BY WATER YEAR (WY)

	1991	1992	1993	1994	1995
MEAN	.0000	.0000	.0000	.0000	.0000
MAX	.0000	.0000	.0000	.0000	.0000
(WY)	1991	1991	1991	1991	1991
MIN	.0000	.0000	.0000	.0000	.0000
(WY)	1991	1991	1991	1991	1991

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR	FOR 1995 WATER YEAR	WATER YEARS 1991 - 1995
ANNUAL TOTAL	106.31	94.27	
ANNUAL MEAN	.29	.26	.34
HIGHEST ANNUAL MEAN			.74
LOWEST ANNUAL MEAN			.18
HIGHEST DAILY MEAN	3.7 Jun 12	2.2 Jun 25	6.7 Jun 26 1993
LOWEST DAILY MEAN	.00 Jan 1	.00 Oct 1	.00 Oct 1 1990
ANNUAL SEVEN-DAY MINIMUM	.00 Jan 1	.00 Oct 1	.00 Oct 1 1990
ANNUAL RUNOFF (AC-FT)	211	187	247
10 PERCENT EXCEEDS	1.1	1.3	1.2
50 PERCENT EXCEEDS	.00	.00	.00
90 PERCENT EXCEEDS	.00	.00	.00

e Estimated.

10270700 SOUTH LAKE NEAR BISHOP, CA

LOCATION.--Lat 37°10'21", long 118°33'52", unsurveyed, T.9 S., R.31 E., Inyo County, Hydrologic Unit 18090102, Inyo National Forest, near spillway at right abutment of Hillside Dam on South Fork Bishop Creek and 16.0 mi southwest of Bishop.

DRAINAGE AREA.--12.9 mi².

PERIOD OF RECORD.--October 1990 to current year. Unpublished records prior to October 1990 available in files of Southern California Edison Co.

GAGE.--Water-stage recorder. Datum of gage is sea level (levels by Southern California Edison Co.).

REMARKS.--Reservoir is formed on natural lake by rock-fill dam completed in 1910. Usable capacity, 12,883 acre-ft between elevations 9,621.20 ft, invert of outlet tunnel, and 9,751.31 ft, crest of spillway. Water is received from Green Creek via Green Creek Conduit (station 10270680). Figures given represent usable contents. Water is used for power development downstream.

COOPERATION.--Records collected by Southern California Edison Co., under general supervision of the U.S. Geological Survey, in connection with a Federal Energy Regulatory Commission project. Contents not rounded to U.S. Geological Survey standards.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 13,038 acre-ft, Aug. 4, 1993, elevation, 9,752.21 ft; minimum, 280 acre-ft, Apr. 18-25, 1993, elevation, unknown.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 13,002 acre-ft, July 31, elevation, 9,752.00 ft; minimum, 989 acre-ft, May 18, elevation, 9,641.09 ft.

Capacity table (elevation, in feet, and contents, in acre-feet)
(Based on survey by Southern California Edison Co., dated Aug. 5, 1981)

9,621.2	0	9,690	4,533
9,630	417	9,710	6,654
9,650	1,493	9,730	9,392
9,670	2,820	9,756	13,704

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	10778	10703	10230	9593	9363	6873	4309	1599	1594	6956	12993	12841
2	10796	10665	10222	9576	9326	6768	4219	1537	1706	7307	12988	12886
3	10785	10639	10203	9568	9286	6666	4138	1476	1772	7636	12983	12934
4	10783	10639	10189	e9568	9244	6566	4055	1421	2008	7926	12983	12953
5	10817	10619	10170	e9554	9203	6462	3974	1370	2186	8246	12985	12950
6	10828	10608	10138	e9551	9135	6358	3893	1321	2315	8612	12974	12931
7	10840	10597	10116	e9562	9047	6263	3814	1271	2413	8978	12959	12910
8	10861	10579	10098	e9573	8963	6164	3735	1219	2496	9378	12957	12893
9	10875	10541	10073	e9582	8868	6091	3653	1169	2565	9859	12933	12864
10	10888	10537	10049	e9593	8786	6069	3582	1125	2670	10233	12914	12848
11	10887	10521	10038	e9604	8699	6000	3502	1076	2861	10407	12908	12846
12	10872	10504	10013	e9615	8606	5950	3418	1052	3116	10479	12893	12839
13	10867	10489	10004	e9626	8526	5886	3243	1047	3387	10547	12867	12832
14	10872	10478	9982	e9635	8442	5809	3155	1038	3601	10629	12865	12827
15	10856	10455	9944	e9623	8359	5725	3066	1026	3743	10736	12853	12817
16	10853	10433	9917	e9610	8266	5637	2974	1012	3852	10869	12827	12801
17	10853	10412	9895	e9598	8158	5589	2840	996	3937	11091	12817	12793
18	10853	10423	9865	e9585	8056	5503	2761	989	4008	11346	12806	12774
19	10848	10406	9837	e9573	7953	5413	2677	999	4082	11506	12784	12760
20	10840	10395	9818	e9559	7837	5328	2585	1021	4157	11639	12758	12756
21	10835	10379	9801	e9548	7727	5240	2394	1054	4244	11764	12779	12753
22	10830	10358	9788	e9534	7619	5166	2356	1083	4357	11900	12846	12749
23	10825	10353	9763	e9522	7515	5087	2249	1103	4524	12008	12924	12744
24	10820	10328	9737	e9509	7400	5004	2161	1115	4748	12109	12943	12735
25	10802	10320	9724	e9489	7292	4919	2073	1116	5029	12194	12926	12716
26	10786	10291	9712	e9483	7187	4832	1988	1118	5339	12284	12908	12710
27	10783	10294	9702	e9471	7084	4746	1905	1135	5672	12441	12893	12701
28	10768	10280	9673	e9458	6982	4660	1825	1182	6012	12639	12858	12673
29	10749	10265	9673	e9444	---	4570	1750	1256	6332	12848	12831	12659
30	10737	10256	9637	e9432	---	4486	1681	1349	6643	12986	12822	12647
31	10734	---	9618	9406	---	4404	---	1461	---	13002	12822	---
MAX	10888	10703	10230	9635	9363	6873	4309	1599	6643	13002	12993	12953
MIN	10734	10256	9618	9406	6982	4404	1681	989	1594	6956	12758	12647
a	9738.49	9735.51	9731.46	9730.09	9712.81	9688.66	9653.11	9649.46	9709.91	9752.00	9750.96	9749.95
b	-34	-478	-638	-212	-2424	-2578	-2723	-220	+5182	+6359	-180	-175

CAL YR 1994 MAX 12741 MIN 6138 b +1623

WTR YR 1995 MAX 13002 MIN 989 b +1879

e Estimated.

a Elevation, in feet, at end of month.

b Change in contents, in acre-feet.

10270800 SOUTH FORK BISHOP CREEK BELOW SOUTH LAKE, NEAR BISHOP, CA

LOCATION.--Lat 37°10'38", long 118°33'44", unsurveyed, T.9 S., R.31 E., Inyo County, Hydrologic Unit 18090102, Inyo National Forest, on right bank near weir on Weir Lake, 0.3 mi downstream from South Lake, and 15.7 mi southwest of Bishop.

DRAINAGE AREA.--13.4 mi².

PERIOD OF RECORD.--October 1990 to current year. Unpublished records prior to October 1990 available in files of Southern California Edison Co.

GAGE.--Water-stage recorder and sharp-crested weir. Elevation of gage is 9,580 ft above sea level, from topographic map.

REMARKS.--No estimated daily discharges. Flow regulated by South Lake (station 10270700). Green Creek Conduit (station 10270680) diverts water into basin at South Lake. Water is used for power development downstream.

COOPERATION.--Records collected by Southern California Edison 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, 142 ft³/s, July 31, 1995, gage height, 1.44 ft; minimum daily, 6.7 ft³/s, Apr. 4, 1994.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 142 ft³/s, July 31, gage height, 1.44 ft; minimum daily, 13 ft³/s, Oct. 8, 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	19	16	16	18	21	55	49	53	17	38	139	36
2	19	18	16	18	21	56	49	52	18	37	132	41
3	19	19	16	17	24	56	49	48	16	37	126	56
4	19	19	16	17	26	55	49	45	17	37	125	72
5	16	18	16	17	26	55	49	43	16	37	126	75
6	15	16	18	17	40	55	49	43	16	37	127	67
7	17	16	19	17	48	55	49	43	15	38	116	58
8	13	16	19	17	48	54	49	43	15	38	113	51
9	13	16	19	17	48	56	50	43	16	39	106	49
10	14	16	19	17	48	51	52	42	17	44	100	41
11	16	16	19	17	48	51	53	42	19	66	92	37
12	18	16	19	17	48	51	53	36	20	76	87	37
13	15	16	19	17	48	51	52	25	21	70	82	37
14	14	16	21	17	48	50	52	24	20	70	80	37
15	15	16	22	17	48	51	52	24	20	70	81	37
16	18	16	22	17	53	51	52	25	20	70	81	37
17	17	16	22	18	57	51	52	26	23	70	81	37
18	15	16	22	18	57	53	51	26	24	70	81	37
19	15	16	19	18	57	52	51	25	25	71	77	36
20	15	16	17	17	56	52	54	25	27	70	74	30
21	15	16	17	17	56	53	59	25	27	70	67	30
22	15	16	17	17	56	53	59	25	28	70	62	30
23	15	16	17	17	56	52	58	26	30	71	64	30
24	15	16	17	17	56	52	57	27	31	70	81	30
25	15	16	17	17	56	52	57	28	33	69	80	30
26	15	17	17	17	56	52	56	28	33	63	71	28
27	15	17	17	17	55	52	55	25	34	55	64	27
28	15	17	17	16	55	51	54	20	37	55	62	27
29	15	16	16	16	---	50	53	16	38	66	55	27
30	15	16	19	16	---	51	53	17	37	91	48	27
31	15	---	20	18	---	50	---	17	---	139	40	---
TOTAL	487	493	567	530	1316	1629	1577	987	710	1904	2720	1194
MEAN	15.7	16.4	18.3	17.1	47.0	52.5	52.6	31.8	23.7	61.4	87.7	39.8
MAX	19	19	22	18	57	56	59	53	38	139	139	75
MIN	13	16	16	16	21	50	49	16	15	37	40	27
AC-FT	966	978	1120	1050	2610	3230	3130	1960	1410	3780	5400	2370

10270800 SOUTH FORK BISHOP CREEK BELOW SOUTH LAKE, NEAR BISHOP, 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	23.8	17.5	19.8	20.1	26.0	20.2	19.6	21.2	16.9	26.7	42.9	31.7
MAX	41.0	24.0	32.6	35.8	54.2	52.5	52.6	31.8	23.7	61.4	87.7	39.8
(WY)	1992	1994	1994	1993	1993	1995	1995	1995	1995	1995	1995	1995
MIN	10.8	10.6	9.98	7.59	7.45	7.75	7.74	10.6	7.70	9.45	20.5	26.4
(WY)	1991	1991	1991	1991	1991	1991	1992	1994	1991	1991	1991	1991

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR				FOR 1995 WATER YEAR				WATER YEARS 1991 - 1995			
ANNUAL TOTAL	6960.5				14114							
ANNUAL MEAN	19.1				38.7				23.9			
HIGHEST ANNUAL MEAN									38.7			
LOWEST ANNUAL MEAN									12.4			
HIGHEST DAILY MEAN	42				139				139			
LOWEST DAILY MEAN	6.7				13				6.7			
ANNUAL SEVEN-DAY MINIMUM	8.0				15				6.9			
INSTANTANEOUS PEAK FLOW					142				142			
INSTANTANEOUS PEAK STAGE					1.44				1.44			
ANNUAL RUNOFF (AC-FT)	13810				28000				17300			
10 PERCENT EXCEEDS	34				70				49			
50 PERCENT EXCEEDS	16				33				19			
90 PERCENT EXCEEDS	9.5				16				8.1			

10270830 SOUTH FORK BISHOP CREEK BELOW SOUTH FORK DIVERSION DAM, NEAR BISHOP, CA

LOCATION.--Lat 37°14'27", long 118°33'52", in SE 1/4 NW 1/4 sec.22, T.8 S., R.31 E., Inyo County, Hydrologic Unit 18090102, Inyo National Forest, on left bank at diversion dam and aqueduct, and 10.5 mi southwest of Bishop.

RAINAGE AREA.--27.8 mi².

PERIOD OF RECORD.--October 1994 to September 1995 (low flow records only). Unpublished records prior to October 1994 available in files of Southern California Edison Co.

AGE.--Water-stage recorder and Parshall flume. Elevation of gage is 7,130 ft above sea level, from topographic map.

REMARKS.--No records computed above 25 ft³/s. Flow regulated by South Lake (station 10270700). Most of the water is diverted by South Fork Diversion Dam to Intake No. 2 Reservoir (station 10270875) for power development downstream.

COOPERATION.--Records collected by Southern California Edison Co., 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	11	11	7.9	7.9	7.8	7.7	8.2	11	11	15	22	12
2	11	8.6	7.8	7.7	7.8	7.7	7.9	11	11	15	22	12
3	11	7.0	7.7	7.6	8.1	7.7	7.8	11	11	15	22	13
4	11	7.1	7.7	7.4	8.1	7.7	7.8	11	11	15	22	13
5	11	7.5	7.6	6.6	8.1	7.7	7.8	11	11	15	22	13
6	11	7.8	7.6	8.4	8.9	7.7	7.8	11	11	15	22	13
7	11	7.6	7.7	9.7	8.8	7.8	8.1	11	11	15	22	13
8	11	7.5	7.7	8.4	8.1	7.7	8.0	11	10	14	22	13
9	11	7.9	7.8	8.8	8.1	7.7	8.0	11	11	14	22	13
10	11	7.9	7.8	8.3	8.0	7.6	8.5	11	11	17	22	12
11	11	7.8	7.9	7.8	7.8	7.7	8.8	11	11	22	18	12
12	11	7.8	7.9	7.9	7.8	7.6	8.8	11	11	22	14	12
13	11	7.8	7.8	7.9	7.8	7.6	8.3	11	11	22	14	12
14	11	7.8	7.9	7.8	7.8	7.6	7.7	11	11	22	14	12
15	10	7.9	8.2	7.8	8.0	7.5	7.7	11	11	22	14	12
16	11	7.8	8.4	7.8	8.1	7.5	7.7	11	11	22	13	12
17	11	8.0	8.2	7.7	8.1	7.5	7.7	11	11	22	13	12
18	11	8.0	8.0	7.7	8.2	7.7	7.7	11	11	21	13	12
19	11	8.0	8.0	7.6	8.1	7.8	7.6	12	11	21	13	12
20	10	8.1	8.0	7.6	7.9	7.7	7.8	12	11	21	13	11
21	11	8.0	7.8	7.5	7.9	7.6	8.0	12	11	21	13	11
22	11	7.9	7.7	7.6	7.9	7.5	8.1	11	11	21	13	11
23	11	8.1	7.7	7.7	7.9	7.6	8.1	11	11	21	13	11
24	11	8.1	7.7	7.5	7.9	7.6	8.1	11	11	21	13	11
25	11	8.1	7.7	7.5	7.9	7.5	8.2	11	11	21	13	11
26	11	8.1	7.7	7.6	7.9	7.9	9.2	11	11	21	13	e11
27	11	8.1	7.9	7.5	7.9	8.2	10	11	14	21	13	e11
28	11	8.0	7.8	7.6	7.8	8.1	11	10	15	21	13	e11
29	11	8.0	7.5	7.6	---	8.1	11	11	15	21	12	e12
30	11	7.9	7.7	7.5	---	8.2	11	12	15	22	12	e12
31	11	---	7.9	7.5	---	8.2	---	12	---	22	12	---
TOTAL	339	239.2	242.7	241.5	224.5	239.7	252.4	345	344	600	499	358
MEAN	10.9	7.97	7.83	7.79	8.02	7.73	8.41	11.1	11.5	19.4	16.1	11.9
MAX	11	11	8.4	9.7	8.9	8.2	11	12	15	22	22	13
MIN	10	7.0	7.5	6.6	7.8	7.5	7.6	10	10	14	12	11
AC-FT	672	474	481	479	445	475	501	684	682	1190	990	710

WTR YR 1995 TOTAL 3925.0 MEAN 10.8 MAX 22 MIN 6.6 AC-FT 7790

e Estimated.

10270870 LAKE SABRINA NEAR BISHOP, CA

LOCATION.--Lat 38°12'44", long 118°36'42", unsurveyed, T.8 S., R.31 E., Inyo County, Hydrologic Unit 18090102, Inyo National Forest, in valve house at base of dam on Middle Fork Bishop Creek and 15.8 mi southwest of Bishop.

DRAINAGE AREA.--16.5 mi².

PERIOD OF RECORD.--October 1990 to current year. Unpublished records prior to October 1990 available in files of Southern California Edison Co.

GAGE.--Water-stage recorder. Datum of gage is sea level (levels by Southern California Edison Co.).

REMARKS.--Reservoir is formed on natural lake by rock-fill dam completed in 1908. Usable capacity, 7,350 acre-ft between elevations 9,068.42 ft, invert of outlet, and 9,131.62 ft, crest of spillway. Figures given represent usable contents. Water is used for power development downstream.

COOPERATION.--Records collected by Southern California Edison Co., under general supervision of the U.S. Geological Survey, in connection with a Federal Energy Regulatory Commission project. Contents not rounded to U.S. Geological Survey standards.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 7,598 acre-ft, July 10, 1995, elevation, 9,132.89 ft; minimum, no storage Apr. 8-14, 1994.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 7,598 acre-ft, July 10, elevation, 9,132.89; minimum, 1.5 acre-ft, many days, elevation, 9071.16 ft.

Capacity table (elevation, in feet, and contents, in acre-feet)
(Based on survey by Southern California Edison Co., dated Aug. 12, 1981)

9,068.42	0	9,100	1,926
9,070	1	9,110	3,501
9,080	15	9,120	5,196
9,090	558	9,135	7,912

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	5914	5933	5315	4613	4404	2491	1038	1.5	802	4742	7443	7171
2	5942	5916	5296	4577	4360	2426	942	7.9	910	5041	7426	7179
3	5956	5900	5277	4557	4302	2360	854	10	1050	5344	7420	7254
4	5984	5878	5247	4560	4249	2292	766	12	1222	5617	7418	7344
5	6020	5867	5212	4543	4197	2228	671	34	1402	5942	7418	7397
6	6053	5849	5184	4533	4142	2163	587	33	1529	6281	7402	7397
7	6085	5825	5166	4533	4079	2097	500	25	1619	6613	7371	7379
8	6116	5816	5133	4528	4011	2035	416	16	1663	6972	7355	7355
9	6142	5793	5107	4523	3938	2006	340	14	1682	7469	7359	7332
10	6166	5782	5079	4569	3863	2038	267	14	1744	7598	7365	7297
11	6180	5757	5057	4598	3787	2033	208	25	1897	7522	7365	7264
12	6190	5735	5038	4668	3692	2008	157	56	2079	7455	7363	7223
13	6203	5719	5017	4699	3609	1976	102	86	2239	7410	7350	7202
14	6210	5696	4991	4718	3539	1945	8.6	95	2362	7391	7332	7192
15	6212	5667	4977	4733	3455	1911	1.5	100	2431	7402	7320	7182
16	6210	5647	4966	4735	3368	1869	1.5	96	2465	7440	7318	7169
17	6210	5627	4954	4725	3296	1807	1.5	92	2473	7516	7309	7157
18	6203	5610	4940	4715	3227	1766	1.5	100	2480	7522	7297	7146
19	6190	5581	4925	4701	3158	1723	1.5	119	2482	7459	7276	7130
20	6169	5563	4902	4686	3094	1685	1.5	145	2488	7395	7258	7115
21	6155	5535	4873	4668	3026	1653	1.5	179	2507	7350	7250	7096
22	6142	5508	4849	4651	2959	1625	1.5	213	2556	7297	7320	7076
23	6123	5483	4821	4643	2890	1604	1.5	242	2646	7229	7406	7061
24	6105	5462	4799	4632	2822	1569	1.5	266	2799	7148	7432	7051
25	6086	5446	4778	4620	2757	1513	1.5	288	3012	7113	7418	7034
26	6066	5423	4751	4595	2689	1457	1.5	309	3174	7123	7389	7019
27	6052	5400	4728	4572	2623	1399	1.5	342	3585	7186	7361	7005
28	6033	5379	4703	4548	2557	1335	3.9	385	3892	7316	7330	6992
29	6007	5360	4679	4523	---	1266	5.1	451	4189	7445	7287	6978
30	5987	5337	4655	4491	---	1197	3.9	546	4472	7490	7243	6961
31	5967	---	4631	4446	---	1126	---	658	---	7467	7202	---
MAX	6212	5933	5315	4735	4404	2491	1038	658	4472	7598	7443	7397
MIN	5914	5337	4631	4446	2557	1126	1.5	1.5	802	4742	7202	6961
a	9124.32	9120.80	9116.73	9115.65	9104.13	9094.44	9074.19	9090.88	9115.80	9132.22	9130.86	9129.61
b	+89	-630	-706	-185	-1889	-1431	-1122	+654	+3814	+2995	-265	-241

CAL YR 1994 MAX 7206 MIN .00 b +156
WTR YR 1995 MAX 7598 MIN 1.5 b +1083

a Elevation, in feet, at end of month.
b Change in contents, in acre-feet.

10270872 MIDDLE FORK BISHOP CREEK BELOW LAKE SABRINA, NEAR BISHOP, CA

LOCATION.--Lat 37°12'50", long 118°36'34", unsurveyed, T.8 S., R.31 E., Inyo County, Hydrologic Unit 18090102, Inyo National Forest, on right bank 800 ft downstream from Lake Sabrina Dam and 15.6 mi southwest of Bishop.

RAINAGE AREA.--16.7 mi².

PERIOD OF RECORD.--October 1990 to current year. Unpublished records prior to October 1990 available in files of Southern California Edison Co.

AGE.--Water-stage recorder and sharp-crested weir. Elevation of gage is 9,050 ft above sea level, from topographic map.

REMARKS.--No estimated daily discharges. Flow regulated by Lake Sabrina (station 10270870). Water is used for power development downstream.

OPERATION.--Records collected by Southern California Edison 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, 270 ft³/s, July 10, 1995, gage height, 2.15 ft; minimum daily, 6.5 ft³/s, Mar. 19-27, 1991.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 270 ft³/s, July 10, gage height, 2.15 ft; minimum daily, 10 ft³/s, Apr. 24.

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	17	23	22	17	32	43	57	20	15	76	174	66
2	18	16	22	25	32	43	59	18	15	77	164	63
3	18	15	22	18	37	42	58	20	15	78	160	59
4	18	20	22	21	37	42	59	20	15	80	158	59
5	15	16	22	19	37	43	61	15	14	84	159	72
6	14	16	22	19	38	42	59	19	15	86	157	73
7	15	20	19	18	41	43	58	22	22	90	147	69
8	15	18	22	20	43	43	57	22	30	94	139	63
9	15	18	22	19	46	36	60	21	43	99	116	61
10	15	18	22	16	47	35	60	21	45	227	108	61
11	14	21	22	17	50	42	59	20	32	230	102	60
12	15	21	20	18	51	41	58	17	48	180	96	60
13	15	18	20	18	51	41	57	17	62	152	94	51
14	15	20	23	18	51	41	57	18	63	143	93	44
15	16	23	16	18	52	41	29	19	64	142	91	43
16	16	19	16	19	53	41	18	22	65	147	89	43
17	16	19	16	23	45	45	15	25	66	177	88	43
18	18	20	15	22	45	39	14	23	64	217	88	43
19	21	25	15	22	44	35	13	17	65	212	88	43
20	21	19	20	22	42	38	11	17	64	196	88	43
21	21	24	21	22	44	38	11	17	65	187	83	43
22	21	22	21	22	44	38	11	17	65	186	76	43
23	21	22	21	22	44	38	11	17	64	186	82	41
24	21	21	21	22	43	38	10	17	64	182	103	39
25	21	21	21	22	43	45	11	17	66	157	104	38
26	21	20	21	23	43	45	11	17	67	129	93	35
27	21	21	21	24	43	45	13	17	69	111	83	34
28	21	22	21	24	43	46	13	18	71	116	77	31
29	21	22	21	24	---	46	15	18	73	143	75	29
30	21	22	21	28	---	46	18	18	73	189	73	29
31	22	---	20	32	---	48	---	18	---	190	69	---
TOTAL	559	602	630	654	1221	1289	1043	584	1499	4563	3317	1481
EAN	18.0	20.1	20.3	21.1	43.6	41.6	34.8	18.8	50.0	147	107	49.4
AX	22	25	23	32	53	48	61	25	73	230	174	73
IN	14	15	15	16	32	35	10	15	14	76	69	29
C-FT	1110	1190	1250	1300	2420	2560	2070	1160	2970	9050	6580	2940

10270872 MIDDLE FORK BISHOP CREEK BELOW LAKE SABRINA, NEAR BISHOP, 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	17.0	14.7	16.2	21.2	28.0	22.7	22.3	22.0	29.4	69.1	54.5	31.5
MAX	20.5	20.1	24.8	35.2	43.7	41.6	34.8	42.5	50.1	147	107	49.4
(WY)	1994	1995	1994	1994	1993	1995	1995	1993	1993	1995	1995	1995
MIN	11.8	8.56	10.2	7.63	7.11	6.91	10.4	9.28	9.14	30.6	33.8	22.7
(WY)	1991	1993	1993	1991	1991	1991	1993	1994	1994	1994	1992	1994

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR				FOR 1995 WATER YEAR				WATER YEARS 1991 - 1995			
ANNUAL TOTAL	8572.8				17442							
ANNUAL MEAN	23.5				47.8				29.1			
HIGHEST ANNUAL MEAN									47.8			
LOWEST ANNUAL MEAN									18.4			
HIGHEST DAILY MEAN	60				230				230			
LOWEST DAILY MEAN	6.8				10				6.5			
ANNUAL SEVEN-DAY MINIMUM	7.5				11				6.5			
INSTANTANEOUS PEAK FLOW					270				270			
INSTANTANEOUS PEAK STAGE					2.15				2.15			
ANNUAL RUNOFF (AC-FT)	17000				34600				21090			
10 PERCENT EXCEEDS	38				97				57			
50 PERCENT EXCEEDS	21				32				21			
90 PERCENT EXCEEDS	9.4				16				8.5			

OWENS LAKE BASIN

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10270875 INTAKE NO. 2 RESERVOIR NEAR BISHOP, CA

LOCATION.--Lat 38°14'53", long 118°34'53", in SE 1/4 SW 1/4 sec.16, T.8 S., R.31 E., Inyo County, Hydrologic Unit 18090102, Inyo National Forest, in outlet structure 50 ft upstream from Bishop Creek Dam on Middle Fork Bishop Creek and 13.0 mi southwest of Bishop.

DRAINAGE AREA.--31.6 mi².

PERIOD OF RECORD.--October 1990 to current year. Unpublished records prior to October 1990 available in files of Southern California Edison Co.

GAGE.--Water-stage recorder. Datum of gage is sea level (levels by Southern California Edison Co.).

REMARKS.--Reservoir is formed by rock-fill dam completed in 1908. Capacity, 78 acre-ft between elevations 8,077 ft, invert of outlet, and 8,098.81 ft, crest of spillway, all of which are available for release. Water is received from South Fork Bishop Creek via conduit on right bank. Most of the water is diverted through conduit to Bishop Creek Powerplant No. 2 for power development on Bishop Creek. Figures given represent total contents.

COOPERATION.--Records collected by Southern California Edison 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, 101 acre-ft, July 9, 1995, elevation, 8,100.67 ft; minimum, 42 acre-ft, Sept. 30, 1993, Apr. 16, 1995, elevation, 8,095.34 ft.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 101 acre-ft, July 9, elevation, 8,100.67 ft; minimum, 42 acre-ft, Apr. 16, elevation, 8,095.34 ft.

Capacity table (elevation, in feet, and contents, in acre-feet)
(Based on survey by Southern California Edison Co., dated Aug. 12, 1981)

8,077	0	8,094	32
8,082	1	8,098	68
8,086	5	8,102	120
8,090	12		

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	66	72	69	66	74	65	64	69	67	87	95	78
2	69	72	69	74	70	66	69	70	75	88	94	80
3	69	66	69	69	73	66	68	73	60	88	94	82
4	72	72	68	67	73	66	66	75	69	89	95	82
5	73	73	68	71	73	70	69	68	73	89	94	82
6	71	67	72	72	70	68	70	65	67	89	93	82
7	75	70	71	70	67	68	72	67	68	91	91	81
8	70	71	69	69	66	69	64	71	68	93	88	79
9	69	69	70	71	68	72	65	70	70	101	87	78
10	70	69	71	72	67	60	67	67	75	96	86	70
11	66	70	72	68	66	65	70	72	80	92	86	70
12	74	75	71	69	69	68	73	66	85	90	85	73
13	72	69	68	70	68	68	71	64	86	90	85	71
14	67	67	75	70	68	70	66	63	84	91	85	67
15	68	72	72	69	64	68	43	62	83	94	86	67
16	71	68	71	67	72	66	42	61	82	98	86	71
17	71	68	70	70	72	72	46	65	81	97	86	72
18	70	67	74	70	72	73	46	76	81	95	85	71
19	72	74	68	70	74	68	44	72	80	95	85	72
20	72	68	68	70	69	73	55	67	80	94	85	67
21	71	73	69	70	70	71	71	72	81	94	84	74
22	72	74	70	69	70	67	71	67	82	94	85	70
23	73	74	70	70	70	66	71	67	83	92	86	69
24	72	72	71	69	71	65	72	66	85	90	87	70
25	71	71	73	67	70	68	73	66	86	92	86	71
26	71	69	72	69	69	68	70	69	87	91	84	68
27	72	69	73	71	67	66	72	69	87	93	83	67
28	71	69	73	69	68	67	74	68	88	98	82	61
29	69	67	73	68	---	66	73	67	88	98	81	51
30	68	68	72	68	---	66	71	68	87	97	81	49
31	68	---	75	70	---	62	---	72	---	95	78	---
MAX	75	75	75	74	74	73	74	76	88	101	95	82
MIN	66	66	68	66	64	60	42	61	60	87	78	49
a	8098.01	8097.99	8098.65	8098.17	8098.05	8097.41	8098.31	8098.35	8099.65	8100.26	8098.90	8096.10
b	+1	0	+7	-5	-2	-6	+9	+1	+15	+8	-17	-29

AL YR 1994 MAX 77 MIN 58 b +2
TR YR 1995 MAX 101 MIN 42 b -18

a Elevation, in feet, at end of month.
b Change in contents, in acre-feet.

10270877 MIDDLE FORK BISHOP CREEK BELOW INTAKE NO. 2 RESERVOIR, NEAR BISHOP, CA

LOCATION.--Lat 37°15'16", long 118°34'39", unsurveyed, T.8 S., R.31 E., Inyo County, Hydrologic Unit 18090102, Inyo National Forest, on left bank 0.1 mi upstream from bridge on South Lake road, 0.7 mi downstream from Bishop Creek Dam, 0.9 mi upstream from confluence with South Fork Bishop Creek, and 12.6 mi southwest of Bishop.

DRAINAGE AREA.--31.9 mi².

PERIOD OF RECORD.--October 1990 to current year (low-flow records only). Unpublished records prior to October 1990 available in files of Southern California Edison Co.

GAGE.--Water-stage recorder and Parshall flume. Elevation of gage is 7,830 ft above sea level, from topographic map.

REMARKS.--No records computed above 30 ft³/s. Flow regulated by Intake No. 2 Reservoir (station 10270875), where most of the water is diverted to Bishop Creek Powerplant No. 2. Water is used for power development downstream.

COOPERATION.--Records collected by Southern California Edison Co., 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	6.0	6.0	5.5	5.5	5.6	5.7	5.5	11	11	---	---	15
2	5.8	6.1	5.5	5.5	5.6	5.7	5.6	11	11	---	---	19
3	5.8	6.0	5.5	5.5	5.5	5.7	5.5	11	11	---	---	---
4	5.9	6.0	5.5	e5.5	5.5	5.7	5.5	11	11	---	---	---
5	6.0	6.1	5.5	e5.5	5.5	5.7	5.5	11	11	---	---	---
6	6.0	6.1	5.5	5.7	5.5	5.7	5.7	11	11	---	---	---
7	6.0	6.0	5.6	5.6	5.5	5.7	5.7	11	11	---	---	---
8	5.7	6.0	e5.5	5.6	5.5	5.7	5.7	11	11	---	---	24
9	6.1	5.7	e5.5	5.7	5.5	e5.7	5.5	11	11	---	---	17
10	7.0	5.5	e5.5	5.7	5.5	e5.7	5.5	11	11	---	---	14
11	6.4	5.5	5.5	5.6	5.5	e5.7	5.7	11	11	---	---	12
12	5.9	5.5	5.5	5.5	5.5	e5.7	5.7	10	---	---	---	12
13	6.0	5.5	5.5	5.5	5.5	5.7	5.7	10	---	---	---	12
14	6.0	5.5	5.5	5.5	5.6	5.7	5.7	10	---	---	---	12
15	6.0	5.4	5.5	5.6	5.7	5.7	5.5	11	---	---	---	12
16	6.0	5.4	5.5	5.6	5.7	5.7	5.4	10	---	---	---	12
17	6.0	5.5	5.5	5.9	5.7	5.7	5.4	10	---	---	---	12
18	6.0	e5.5	5.5	5.8	5.7	5.9	5.4	11	---	---	---	12
19	6.0	e5.5	5.5	5.5	5.7	5.8	5.4	11	30	---	---	12
20	6.0	5.5	5.5	5.5	5.7	6.0	5.4	11	---	---	---	11
21	6.0	5.5	5.5	5.5	5.7	6.0	5.5	11	30	---	---	11
22	6.0	5.5	5.5	5.5	5.7	5.9	5.5	11	---	---	---	11
23	6.0	5.5	5.5	5.5	5.7	5.8	5.5	11	---	---	---	11
24	6.0	5.5	5.5	5.5	5.7	e5.7	5.6	11	---	---	---	11
25	6.0	5.5	5.5	5.5	5.7	e5.7	5.7	11	---	---	---	11
26	6.0	e5.5	5.5	5.5	5.7	e5.7	8.2	11	---	---	---	11
27	6.0	e5.5	5.5	5.5	5.7	5.7	11	11	---	---	---	11
28	5.9	5.5	5.5	5.5	5.7	5.7	11	11	---	---	---	11
29	6.0	5.5	5.5	5.5	---	5.5	11	11	---	---	---	14
30	6.0	5.5	5.5	5.5	---	5.5	11	11	---	---	---	16
31	6.0	---	5.5	5.5	---	5.6	---	11	---	---	27	---
TOTAL	186.5	169.3	170.6	172.3	157.1	177.4	191.0	336	---	---	---	---
MEAN	6.02	5.64	5.50	5.56	5.61	5.72	6.37	10.8	---	---	---	---
MAX	7.0	6.1	5.6	5.9	5.7	6.0	11	11	---	---	---	---
MIN	5.7	5.4	5.5	5.5	5.5	5.5	5.4	10	---	---	---	---
AC-FT	370	336	338	342	312	352	379	666	---	---	---	---

CAL YR 1994 TOTAL 1412.4 MEAN 3.87 MAX 8.0 MIN 2.2 AC-FT 2800

e Estimated.

10270885 BISHOP CREEK BELOW INTAKE NO. 3 DIVERSION DAM, NEAR BISHOP, CA

LOCATION.--Lat 37°16'27", long 118°34'17", in NE 1/4 NE 1/4 sec.9, T.8 S., R.31 E., Inyo County, Hydrologic Unit 18090102, Inyo National Forest, on left bank 125 ft downstream from dam, 0.7 mi downstream from confluence of South Fork and Middle Fork Bishop Creek, and 9.5 mi southwest of Bishop.

RAINAGE AREA.--64.50 mi².

PERIOD OF RECORD.--October 1994 to September 1995 (low-flow records only). Unpublished records prior to October 1994 available in files of Southern California Edison Co.

GAGE.--Water-stage recorder and Parshall flume. Elevation of gage is 7,130 ft above sea level, from topographic map.

REMARKS.--No records computed above 20 ft³/s. Flow regulated by Intake No. 3 Reservoir, where most of the water is diverted to Bishop Creek Powerplant No. 3. Water is used for power development downstream.

COOPERATION.--Records collected by Southern California Edison Co., 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	14	14	15	15	15	16	---	---	---	---	---	19
2	14	14	15	15	15	16	---	---	---	---	---	19
3	14	13	15	15	15	15	---	---	---	---	---	---
4	14	13	15	15	15	16	---	---	---	---	---	---
5	14	14	15	15	15	16	---	---	---	---	---	---
6	14	14	15	15	e15	16	---	---	---	---	---	---
7	14	14	15	15	e15	16	---	---	---	---	---	---
8	14	14	15	15	e15	16	---	---	---	---	---	13
9	14	14	15	15	e15	16	---	---	15	---	---	15
10	13	14	15	15	e15	---	---	---	14	---	---	16
11	---	13	15	15	e15	---	---	---	14	---	---	15
12	e15	13	15	15	e15	---	---	---	---	---	---	16
13	14	13	15	15	e15	---	---	---	---	---	---	16
14	14	14	e16	15	15	---	---	---	---	---	---	16
15	14	14	15	e15	15	---	---	---	---	---	---	---
16	14	14	15	15	15	---	---	---	---	---	---	16
17	14	14	15	e15	15	---	---	---	15	---	---	16
18	14	14	15	e15	15	---	---	---	14	---	---	16
19	14	15	15	e15	15	---	---	---	14	---	---	15
20	14	14	15	e15	15	---	---	---	15	---	---	14
21	14	14	15	e15	15	---	---	---	16	---	---	14
22	14	14	14	e15	15	---	---	---	19	---	---	14
23	14	14	14	e15	15	---	---	---	---	---	---	14
24	14	14	15	e15	15	---	---	---	---	---	---	14
25	14	14	14	e15	15	---	---	---	---	---	---	14
26	14	14	14	e15	15	---	---	---	---	---	---	14
27	14	14	15	15	15	---	---	---	---	---	---	14
28	14	14	14	15	e16	---	---	---	---	---	---	14
29	14	15	15	15	---	---	---	---	---	---	---	14
30	14	14	15	15	---	---	---	---	---	---	---	14
31	14	---	15	14	---	---	---	---	---	---	---	---
TOTAL	---	417	461	464	421	---	---	---	---	---	---	---
MEAN	---	13.9	14.9	15.0	15.0	---	---	---	---	---	---	---
MAX	---	15	16	15	16	---	---	---	---	---	---	---
MIN	---	13	14	14	15	---	---	---	---	---	---	---
IC-FT	---	827	914	920	835	---	---	---	---	---	---	---

e Estimated.

10270900 BIRCH-MCGEE DIVERSION TO BISHOP CREEK POWERPLANT NO. 2 NEAR BISHOP, CA

LOCATION.--Lat 37°16'26", long 118°34'45", NW 1/4 NE 1/4 sec.9, T.8 S., R.31 E., Inyo County, Hydrologic Unit 18090102, Inyo National Forest, in conduit 100 ft upstream from penstock to Bishop Creek Powerplant No. 2 and 11.9 mi southwest of Bishop.

PERIOD OF RECORD.--October 1990 to current year. Unpublished records prior to October 1990 available in files of Southern California Edison Co.

GAGE.--Acoustic-velocity meter. Elevation of gage is 7,950 ft above sea level, from topographic map.

REMARKS.--Conduit diverts water from Birch Creek and discharges into penstock to Bishop Creek Powerplant No. 2. Birch Creek receives water from McGee Creek via McGee Creek Diversion (station 10268225).

COOPERATION.--Records collected by Southern California Edison 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, 39 ft³/s, July 26-29, 1993; minimum daily, 1.3 ft³/s, May 30, 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	3.5	2.7	2.5	2.6	e2.3	e2.5	2.1	3.2	3.3	e5.1	e7.0	e3.4
2	3.3	2.7	2.5	2.6	e2.3	e2.6	2.1	2.8	3.3	e5.2	e6.5	e3.3
3	3.2	2.7	2.5	e2.6	e2.3	e2.5	2.2	2.8	3.6	e5.2	e6.0	e3.1
4	3.4	2.6	2.6	2.6	e2.3	e2.5	2.4	2.7	4.1	e5.4	e6.0	e3.0
5	3.6	2.7	2.6	2.6	e2.3	e2.6	2.3	2.6	4.3	e5.6	e6.5	e3.1
6	3.5	2.8	2.5	2.7	e2.4	e2.6	2.3	2.4	4.2	e6.0	e6.0	e3.1
7	3.3	3.0	2.5	2.6	e2.4	e2.6	2.6	2.4	4.1	e6.0	e6.0	e2.8
8	3.2	2.9	2.6	2.7	e2.5	2.6	2.3	2.5	3.8	e8.0	e5.5	e2.7
9	3.2	2.8	2.4	2.6	e2.5	3.1	2.2	2.6	3.9	e11	e5.2	e2.6
10	3.1	2.8	2.5	2.7	e2.5	3.0	2.3	2.7	4.2	e12	e4.9	e2.4
11	3.1	2.8	2.5	2.7	e2.4	2.8	2.5	2.9	4.8	e12	e4.9	e2.3
12	3.1	2.9	2.5	2.6	e2.5	2.7	2.6	2.6	6.2	e10	e4.8	e2.2
13	3.2	2.9	2.6	2.6	e2.6	2.7	2.4	2.6	7.8	e6.0	e4.8	e2.1
14	3.1	2.8	2.6	2.7	e2.5	2.7	2.2	2.7	7.2	e6.0	e4.7	e2.0
15	3.1	2.8	2.6	2.6	e2.5	2.8	2.2	2.6	7.0	e5.4	e4.7	e3.0
16	2.9	2.8	2.6	2.6	e2.5	2.8	2.1	2.6	6.4	e6.0	e4.6	e4.0
17	2.5	2.8	2.6	2.5	e2.5	2.4	2.1	2.6	5.8	e6.0	e4.5	e3.9
18	2.1	2.8	2.6	2.3	e2.6	2.6	2.1	2.9	5.1	e6.5	e4.4	e3.8
19	2.1	2.7	2.5	2.3	e2.5	2.6	2.1	2.9	4.5	e6.5	e4.3	e3.7
20	2.0	2.6	2.5	2.3	e2.5	2.4	2.0	3.0	4.3	e6.5	e4.2	e3.5
21	2.0	2.5	2.6	2.3	e2.5	2.2	2.0	3.3	4.2	e6.5	e4.1	e3.4
22	2.3	2.6	2.6	2.3	e2.5	2.1	2.2	3.2	5.7	e6.5	e4.0	e3.3
23	2.8	2.5	2.6	2.3	e2.5	2.1	2.4	3.2	e6.0	e6.0	e4.0	e3.2
24	2.8	2.5	2.6	2.3	e2.5	2.1	2.7	3.2	e6.0	e6.0	e4.0	e3.1
25	2.8	2.5	2.7	2.3	e2.6	2.1	2.8	3.1	e5.0	e6.0	e4.0	e3.0
26	2.8	2.5	2.7	2.4	e2.6	2.0	2.9	3.2	e5.0	e5.4	e4.2	e2.9
27	2.8	2.5	2.6	2.3	e2.6	2.0	2.7	3.2	e5.0	e5.4	e4.1	e2.8
28	2.7	2.6	2.6	2.3	e2.5	2.0	2.8	3.0	e5.0	e6.0	e4.0	e2.7
29	2.7	2.6	2.6	2.3	---	2.0	3.4	1.7	e5.0	e6.5	e4.0	e2.7
30	2.7	2.5	2.6	2.3	---	2.0	4.0	1.3	e5.0	e9.0	e3.8	e2.4
31	2.7	---	2.6	2.3	---	2.1	---	3.2	---	e8.0	e3.6	---
TOTAL	89.6	80.9	79.6	76.9	69.2	75.8	73.0	85.7	149.8	211.7	149.3	89.5
MEAN	2.89	2.70	2.57	2.48	2.47	2.45	2.43	2.76	4.99	6.83	4.82	2.98
MAX	3.6	3.0	2.7	2.7	2.6	3.1	4.0	3.3	7.8	12	7.0	4.0
MIN	2.0	2.5	2.4	2.3	2.3	2.0	2.0	1.3	3.3	5.1	3.6	2.0
AC-FT	178	160	158	153	137	150	145	170	297	420	296	178

e Estimated.

10270900 BIRCH-MCGEE DIVERSION TO BISHOP CREEK POWERPLANT NO. 2 NEAR BISHOP, 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	5.97	5.32	4.62	4.53	4.91	5.06	5.76	6.43	12.3	15.9	11.2	8.62
MAX	9.95	10.9	8.71	8.60	10.9	10.8	11.5	8.89	17.2	31.7	23.5	19.7
(WY)	1994	1994	1994	1994	1994	1994	1994	1993	1993	1993	1993	1993
MIN	2.89	2.70	2.57	2.48	2.47	2.45	2.43	2.76	4.99	6.83	4.82	2.98
(WY)	1995	1995	1995	1995	1995	1995	1995	1995	1995	1995	1995	1995

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR				FOR 1995 WATER YEAR				WATER YEARS 1991 - 1995			
ANNUAL TOTAL	3195.5				1231.0							
ANNUAL MEAN	8.75				3.37				7.56			
HIGHEST ANNUAL MEAN									11.2			
LOWEST ANNUAL MEAN									3.37			
HIGHEST DAILY MEAN	22				12				39			
LOWEST DAILY MEAN	2.0				1.3				1.3			
ANNUAL SEVEN-DAY MINIMUM	2.3				2.0				2.0			
ANNUAL RUNOFF (AC-FT)	6340				2440				5480			
10 PERCENT EXCEEDS	14				6.0				14			
50 PERCENT EXCEEDS	10				2.7				5.1			
90 PERCENT EXCEEDS	2.6				2.3				2.7			

10270940 BISHOP CREEK BELOW INTAKE NO. 4 DIVERSION DAM, NEAR BISHOP, CA

LOCATION.--Lat 37°18'10", long 118°31'45", in NW 1/4 NW 1/4 sec.36, T.7 S., R.32 E., Inyo County, Hydrologic Unit 18090102, Inyo National Forest, on left bank 300 ft downstream from dam, 1.6 mi upstream from Coyote Creek, and 7.5 mi southwest of Bishop.

DRAINAGE AREA.--72.74 mi².

PERIOD OF RECORD.--October 1994 to September 1995 (low-flow records only). Unpublished records prior to October 1994 available in files of Southern California Edison Co.

GAGE.--Water-stage recorder and Parshall flume. Elevation of gage is 6,310 ft above sea level, from topographic map.

REMARKS.--No estimated daily discharges. No records computed above 20 ft³/s. Flow regulated by Intake No. 4 Reservoir, where most of the water is diverted to Bishop Creek Powerplant No. 4. Water is used for power development downstream.

COOPERATION.--Records collected by Southern California Edison Co., 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	6.1	6.0	6.9	6.2	6.4	6.0	6.1	6.3	17	---	---	---
2	6.1	5.8	5.6	6.2	6.4	6.3	7.1	6.5	7.0	---	---	---
3	6.1	5.8	5.8	6.2	6.4	6.3	6.9	6.5	19	---	---	---
4	6.2	5.7	5.8	6.1	6.5	6.3	5.9	7.1	15	---	---	---
5	6.3	5.8	5.8	6.1	6.5	6.3	5.9	6.0	---	---	---	---
6	6.3	5.7	5.7	6.1	6.4	6.3	5.8	6.1	19	---	---	---
7	6.3	5.9	5.7	6.1	6.5	6.3	6.0	6.0	8.7	---	---	---
8	6.3	5.7	5.7	6.1	6.5	6.3	8.1	6.0	9.6	---	---	---
9	6.2	5.6	5.6	6.2	6.4	7.0	5.9	6.0	5.5	---	---	---
10	6.3	5.6	5.7	6.3	6.5	18	6.2	5.9	16	---	---	---
11	6.8	5.7	5.7	6.3	6.4	14	7.7	5.9	---	---	---	17
12	6.2	5.7	5.7	6.3	6.3	5.9	8.1	5.6	---	---	---	16
13	6.1	5.5	5.8	6.4	6.3	5.9	9.1	5.5	---	---	---	12
14	6.1	5.5	5.8	6.5	6.4	6.1	7.0	5.5	---	---	---	8.9
15	6.1	5.5	5.8	6.5	6.4	6.7	7.3	5.5	---	---	---	13
16	5.9	5.6	5.8	6.4	6.4	6.1	6.9	5.5	---	---	---	8.1
17	6.0	5.7	5.9	6.3	6.4	5.8	6.5	5.7	---	---	---	8.0
18	6.0	5.6	5.8	6.3	6.4	8.6	6.5	5.7	---	---	---	8.0
19	6.1	5.3	5.9	6.3	6.4	9.5	6.4	5.7	---	---	---	7.5
20	6.1	5.3	5.9	6.4	6.4	7.8	6.4	7.6	---	---	---	6.9
21	6.1	5.2	5.8	6.4	6.4	11	6.3	6.4	---	---	---	7.0
22	6.1	5.2	5.8	6.4	6.5	9.3	6.3	6.2	---	---	---	6.8
23	6.1	5.3	5.8	6.4	6.5	8.8	6.3	6.2	---	---	---	6.8
24	6.1	5.5	5.8	6.4	6.5	7.2	6.3	6.4	---	---	---	6.9
25	6.1	5.5	5.8	6.4	6.4	7.6	6.4	6.4	---	---	---	7.0
26	6.1	5.5	6.0	6.4	6.5	7.7	6.3	6.3	---	---	---	7.1
27	6.1	5.6	6.0	6.4	6.4	7.6	6.5	8.5	---	---	---	7.1
28	6.1	5.6	6.1	6.4	5.9	7.2	6.5	6.8	---	---	---	7.0
29	6.1	5.6	6.2	6.4	---	7.1	6.8	6.4	---	---	---	7.0
30	6.2	7.6	6.1	6.4	---	7.1	6.3	6.2	---	---	---	7.0
31	6.3	---	6.2	6.3	---	7.1	---	6.4	---	---	---	---
TOTAL	191.0	169.6	182.0	195.6	179.4	239.2	199.8	192.8	---	---	---	---
MEAN	6.16	5.65	5.87	6.31	6.41	7.72	6.66	6.22	---	---	---	---
MAX	6.8	7.6	6.9	6.5	6.5	18	9.1	8.5	---	---	---	---
MIN	5.9	5.2	5.6	6.1	5.9	5.8	5.8	5.5	---	---	---	---
AC-FT	379	336	361	388	356	474	396	382	---	---	---	---

OWENS LAKE BASIN

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10270960 COYOTE CREEK NEAR BISHOP, CA

LOCATION.--Lat 37°18'54", long 118°30'33", SW 1/4 NW 1/4 sec.30, T.7 S., R.32 E., Inyo County, Hydrologic Unit 18090102, on left bank 30 ft upstream from mouth and 7.2 mi southwest of Bishop.

DRAINAGE AREA.--25.8 mi².

PERIOD OF RECORD.--October 1990 to current year. Unpublished records prior to October 1990 available in files of Southern California Edison Co.

GAGE.--Water-stage recorder and Parshall flume. Elevation of gage is 5,470 ft above sea level, from topographic map.

REMARKS.--No storage or diversion upstream from station. Water is used for power development downstream.

COOPERATION.--Records collected by Southern California Edison 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, 26 ft³/s, June 12, 1995, gage height, 1.67 ft; minimum daily, 1.8 ft³/s, several days in 1992.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 26 ft³/s, June 12, gage height, 1.67 ft; minimum daily, 2.6 ft³/s, Oct. 3, Dec. 8.

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	2.9	2.8	3.1	3.1	3.6	3.7	3.6	8.2	12	10	e5.0	e3.8
2	2.7	2.8	3.1	3.1	3.6	3.6	3.4	7.3	11	9.7	e5.4	4
3	2.6	2.8	3.1	3.2	3.6	3.5	3.5	7.2	12	8.7	e5.1	4.1
4	2.7	3.0	3.1	3.2	3.6	3.4	3.7	7.7	15	7.4	e5.0	4
5	3.2	3.2	3.1	3.2	3.5	3.5	3.8	7.3	16	7.0	e5.1	3.8
6	3.3	3.1	3.0	3.4	3.4	3.5	4.0	6.0	14	6.8	5	3.8
7	3.2	3.0	2.9	3.4	3.4	3.4	4.3	5.5	12	6.8	4.5	3.8
8	3.0	3.1	2.6	3.4	3.4	3.4	4.4	5.6	10	6.8	4.1	3.8
9	2.8	3.1	3.0	3.4	3.4	3.9	4.2	7.0	9.4	9.4	3.8	3.8
10	2.8	3.0	2.9	4.1	3.4	6.5	4.0	8.1	11	e8.0	4	3.8
11	2.8	3.0	2.9	3.7	3.4	5.9	3.9	9.4	15	e7.4	3.8	3.8
12	2.8	3.0	3.0	3.6	3.4	4.2	4.3	10	18	e6.4	3.8	3.8
13	2.8	3.0	3.0	3.6	3.4	3.3	4.3	7.7	21	5.2	e3.7	3.7
14	3.1	2.9	2.9	3.6	3.5	3.5	4.0	6.7	17	5.1	e3.5	3.7
15	3.2	3.0	2.9	3.6	3.4	3.6	3.9	6.1	15	5.0	e3.3	3.7
16	2.9	3.0	2.9	3.4	3.3	3.6	3.8	5.7	12	4.9	3.2	3.7
17	3.1	3.0	3.0	3.4	3.3	3.6	3.8	6.3	12	e5.3	3.2	3.8
18	3.1	2.9	3.0	3.4	3.3	3.7	3.8	9.0	12	e5.8	3.3	3.8
19	3.0	2.8	3.0	3.4	3.4	4.0	3.7	12	11	e5.6	3.3	3.9
20	3.0	3.1	3.0	3.4	3.4	4.6	3.7	13	10	e5.5	3.6	3.8
21	2.9	3.0	3.0	3.4	3.4	5.7	3.6	14	10	5.6	3.8	3.9
22	2.9	2.9	3.0	3.4	3.4	5.4	3.6	13	11	5.4	4.2	3.9
23	2.9	3.0	3.0	3.4	3.4	5.4	3.8	9.9	12	5.0	3.8	3.9
24	2.9	3.0	3.0	3.4	3.4	4.2	4.2	9.3	13	4.7	3.6	3.9
25	2.9	3.0	3.1	3.4	3.4	3.6	4.9	8.0	13	4.3	3.4	4.0
26	2.9	2.9	3.0	3.4	3.5	3.6	5.4	9.1	14	4.3	3.3	4.0
27	2.9	3.0	3.1	3.4	3.6	3.4	5.8	12	13	4.1	3.3	4.0
28	2.9	2.9	3.0	3.4	3.6	3.4	6.0	13	13	4.1	3.4	4.1
29	2.9	3.0	3.1	3.4	---	3.4	7.2	14	12	e4.4	3.3	4.1
30	2.9	3.0	3.0	3.4	---	3.4	8.4	13	11	e4.5	3.3	4.2
31	2.9	---	3.1	3.5	---	3.5	---	14	---	e4.8	e3.4	---
TOTAL	90.9	89.3	92.9	106.1	96.4	123.4	131.0	285.1	387.4	188.0	120.5	116.4
MEAN	2.93	2.98	3.00	3.42	3.44	3.98	4.37	9.20	12.9	6.06	3.89	3.88
MAX	3.3	3.2	3.1	4.1	3.6	6.5	8.4	14	21	10	5.4	4.2
MIN	2.6	2.8	2.6	3.1	3.3	3.3	3.4	5.5	9.4	4.1	3.2	3.7
AC-FT	180	177	184	210	191	245	260	565	768	373	239	231

e Estimated.

10270960 COYOTE CREEK NEAR BISHOP, 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	2.99	3.24	3.19	3.32	3.48	3.78	4.72	5.66	5.04	3.07	2.59	2.75
MAX	3.60	3.76	3.73	3.65	3.78	4.17	5.08	9.20	12.9	6.06	3.89	3.88
(WY)	1994	1994	1994	1994	1994	1994	1993	1995	1995	1995	1995	1995
MIN	2.63	2.98	2.99	3.10	3.23	3.46	4.35	3.28	2.51	2.01	1.92	2.07
(WY)	1993	1995	1993	1992	1993	1992	1991	1992	1992	1992	1992	1992

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR				FOR 1995 WATER YEAR				WATER YEARS 1991 - 1995			
ANNUAL TOTAL	1177.4				1827.4							
ANNUAL MEAN	3.23				5.01				3.65			
HIGHEST ANNUAL MEAN									5.01			
LOWEST ANNUAL MEAN									2.97			
HIGHEST DAILY MEAN	5.8 Apr 2				21 Jun 13				21 Jun 13 1995			
LOWEST DAILY MEAN	2.0 Jul 27				2.6 Oct 3				1.8 Jul 20 1992			
ANNUAL SEVEN-DAY MINIMUM	2.0 Aug 1				2.9 Oct 28				1.8 Jul 29 1992			
INSTANTANEOUS PEAK FLOW					26 Jun 12				26 Jun 12 1995			
INSTANTANEOUS PEAK STAGE					1.67 Jun 12				1.67 Jun 12 1995			
ANNUAL RUNOFF (AC-FT)	2340				3620				2640			
10 PERCENT EXCEEDS	4.3				10				5.0			
50 PERCENT EXCEEDS	3.0				3.6				3.3			
90 PERCENT EXCEEDS	2.2				2.9				2.2			

10270970 BISHOP CREEK BELOW INTAKE NO. 5 DIVERSION DAM, NEAR BISHOP, CA

LOCATION.--Lat 37°19'27", long 118°29'57", in NE 1/4 SE 1/4 sec.9, T.7 S., R.32 E., Inyo County, Hydrologic Unit 18090102, Inyo National Forest, on left bank 400 ft downstream from dam, 1.0 mi downstream from Coyote Creek, and 6.0 mi southwest of Bishop.

DRAINAGE AREA.--100.22 mi².

PERIOD OF RECORD.--October 1994 to September 1995 (low-flow records only). Unpublished records prior to October 1994 available in files of Southern California Edison Co.

GAGE.--Water-stage recorder and Parshall flume. Elevation of gage is 5,280 ft above sea level, from topographic map.

REMARKS.--No records computed above 30 ft³/s. Flow regulated by Intake No. 5 Reservoir, where most of the water is diverted to Bishop Creek Powerplant No. 5. Water is used for power development downstream.

COOPERATION.--Records collected by Southern California Edison Co., 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	19	19	19	19	19	19	19	19	19	---	---	19
2	19	19	19	19	19	20	19	19	19	---	---	23
3	19	19	19	19	19	19	19	19	18	---	---	---
4	19	19	19	19	19	20	19	19	19	---	---	---
5	19	18	19	19	19	20	19	19	23	---	---	---
6	19	18	19	19	19	20	18	19	21	---	---	---
7	19	18	19	19	19	20	19	19	18	---	---	---
8	19	19	19	19	19	20	19	19	19	---	---	---
9	19	18	19	19	19	20	18	19	18	---	---	24
10	18	18	19	20	e19	22	18	19	18	---	---	20
11	19	18	19	19	e19	26	19	19	23	---	---	19
12	19	18	19	19	e19	23	19	19	---	---	---	19
13	18	18	19	19	e19	19	19	19	---	---	---	19
14	18	19	19	19	19	19	19	19	---	---	---	19
15	19	19	19	19	19	19	19	19	---	---	---	25
16	19	19	19	19	19	18	19	19	---	---	---	19
17	18	19	19	19	19	18	19	19	---	---	---	19
18	19	18	20	19	19	19	19	19	---	---	---	19
19	19	19	19	19	19	18	19	19	---	---	---	19
20	19	19	19	19	19	19	19	19	---	---	---	19
21	19	19	19	19	19	18	19	19	---	---	---	19
22	19	19	19	19	19	18	19	19	---	---	---	19
23	19	19	19	19	19	19	19	19	---	---	---	19
24	19	19	19	19	19	18	19	19	---	---	---	19
25	19	19	19	19	19	18	19	19	---	---	---	19
26	19	19	19	19	19	18	19	19	---	---	---	19
27	19	19	19	19	e19	19	19	18	---	---	---	19
28	19	19	19	19	e19	18	19	18	---	---	---	19
29	19	19	19	19	---	18	19	19	---	---	---	19
30	19	20	19	19	---	18	19	19	---	---	---	19
31	18	---	19	19	---	18	---	18	---	---	---	---
TOTAL	584	562	590	590	532	598	567	586	---	---	---	---
MEAN	18.8	18.7	19.0	19.0	19.0	19.3	18.9	18.9	---	---	---	---
MAX	19	20	20	20	19	26	19	19	---	---	---	---
MIN	18	18	19	19	19	18	18	18	---	---	---	---
AC-FT	1160	1110	1170	1170	1060	1190	1120	1160	---	---	---	---

e Estimated.

10270985 ABELOUR DITCH NEAR BISHOP, CA

LOCATION.--Lat 37°20'30", long 118°28'41", SE 1/4 NE 1/4 sec.17, T.7 S., R.32 E., Inyo County, Hydrologic Unit 18090102, on left bank 400 ft upstream from Highway 168 road crossing, 0.6 mi downstream from outlet in penstock to Bishop Creek Powerplant No. 6, and 4.8 mi west of Bishop.

PERIOD OF RECORD.--October 1990 to current year. Unpublished records prior to October 1990 available in files of Southern California Edison Co.

GAGE.--Water-stage recorder and Parshall flume. Elevation of gage is 4,750 ft above sea level, from topographic map.

REMARKS.--No estimated daily discharges. Ditch diverts water from Bishop Creek Powerplant No. 6 Penstock for irrigation and domestic use.

COOPERATION.--Records collected by Southern California Edison 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, 3.3 ft³/s, May 7, 1995; minimum daily, 1.3 ft³/s, Dec. 23, 1990.

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	2.1	1.9	1.9	1.9	1.8	1.8	2.1	2.4	2.6	2.6	2.5
2	2.1	2.2	1.9	1.9	1.9	2.1	1.9	2.8	2.1	2.6	2.7	2.4
3	2.1	2.1	1.9	2.1	1.9	2.1	1.9	2.6	1.9	2.7	2.7	2.4
4	2.1	2.1	1.9	2.1	1.9	2.1	1.8	2.6	2.0	2.7	2.7	2.2
5	2.1	2.1	1.9	2.1	1.9	2.1	1.8	2.8	2.0	2.7	2.7	2.4
6	2.1	2.2	1.9	2.1	1.9	2.1	1.7	3.2	2.0	2.7	2.6	2.5
7	2.1	2.1	1.9	2.0	2.0	2.1	1.8	3.3	2.0	2.8	2.6	2.5
8	2.1	1.9	1.9	2.0	1.9	2.1	1.9	2.6	2.0	2.8	2.6	2.5
9	2.1	1.9	1.9	1.9	1.9	2.0	1.8	2.4	1.9	2.8	2.6	2.5
10	2.1	1.9	1.8	2.0	1.9	2.1	1.8	2.2	1.9	2.8	2.6	2.4
11	2.1	1.9	1.8	2.0	1.9	2.1	1.8	1.9	2.0	2.6	2.6	2.4
12	2.1	1.9	1.9	2.0	2.0	2.0	1.8	1.9	2.2	2.5	2.6	2.4
13	2.1	1.9	1.9	2.0	2.0	2.0	1.9	2.1	2.7	2.5	2.6	2.3
14	2.1	1.9	1.9	1.9	1.9	2.0	1.9	2.1	2.7	2.4	2.6	2.3
15	2.1	1.9	1.9	1.9	1.9	2.0	2.0	2.2	2.6	2.4	2.6	2.3
16	2.1	1.9	1.9	1.9	1.9	2.1	2.3	2.2	2.7	2.4	2.5	2.1
17	2.1	1.9	1.9	2.0	1.9	2.1	2.1	2.2	2.7	2.4	2.5	2.4
18	2.1	1.9	1.9	1.9	1.9	2.1	1.9	2.1	2.6	2.4	2.6	2.7
19	2.1	1.9	1.9	1.9	2.0	2.0	1.8	2.0	2.6	2.4	2.6	2.9
20	2.1	1.8	1.9	2.0	1.9	2.0	1.9	1.9	2.6	2.6	2.6	2.9
21	2.1	1.9	1.9	1.9	2.0	2.0	1.9	1.8	2.6	2.6	2.5	3.0
22	2.1	1.9	1.9	2.0	2.0	2.1	1.8	2.1	2.6	2.7	2.5	3.0
23	2.1	1.9	1.9	2.0	2.0	2.1	1.8	2.6	2.6	2.7	2.6	3.0
24	2.1	1.9	1.9	2.0	1.9	2.1	1.8	2.7	2.6	2.7	2.6	3.0
25	2.1	1.9	1.9	2.0	1.9	2.1	1.7	2.7	2.7	2.7	2.6	2.6
26	2.1	1.9	1.9	2.0	1.9	2.1	1.7	2.8	2.7	2.7	2.6	2.3
27	2.1	1.9	1.9	2.0	1.9	2.0	1.9	2.7	2.7	2.6	2.6	2.4
28	2.1	1.9	1.9	1.9	1.6	2.1	2.0	2.6	2.7	2.6	2.5	2.4
29	2.1	1.9	1.9	1.9	---	2.1	1.9	2.7	2.7	2.7	2.5	2.4
30	2.1	1.9	1.9	1.9	---	2.0	1.7	2.6	2.7	2.7	2.5	2.5
31	2.1	---	1.9	1.9	---	2.0	---	2.4	---	2.7	2.5	---
TOTAL	65.1	58.5	58.7	61.1	53.6	63.7	55.8	74.9	72.2	81.2	80.2	75.6
MEAN	2.10	1.95	1.89	1.97	1.91	2.05	1.86	2.42	2.41	2.62	2.59	2.52
MAX	2.1	2.2	1.9	2.1	2.0	2.1	2.3	3.3	2.7	2.8	2.7	3.0
MIN	2.1	1.8	1.8	1.9	1.6	1.8	1.7	1.8	1.9	2.4	2.5	2.1
AC-FT	129	116	116	121	106	126	111	149	143	161	159	150

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1991 - 1995, BY WATER YEAR (WY)

	MEAN	2.01	1.92	1.84	1.86	1.87	1.92	1.92	2.09	2.16	2.23	2.22	2.19
MAX	2.19	2.20	1.94	1.97	2.00	2.05	2.03	2.42	2.47	2.62	2.65	2.52	
(WY)	1994	1994	1994	1995	1992	1995	1993	1995	1993	1995	1993	1995	
MIN	1.87	1.76	1.77	1.75	1.70	1.70	1.86	1.88	1.90	1.91	1.85	1.89	
(WY)	1991	1993	1993	1992	1991	1991	1991	1991	1992	1992	1991	1991	

SUMMARY STATISTICS

FOR 1994 CALENDAR YEAR

FOR 1995 WATER YEAR

WATER YEARS 1991 - 1995

ANNUAL TOTAL	730.5	800.6	
ANNUAL MEAN	2.00	2.19	
HIGHEST ANNUAL MEAN			2.02
LOWEST ANNUAL MEAN			2.19
HIGHEST DAILY MEAN	2.4	Sep 23	3.3
LOWEST DAILY MEAN	1.6	Jun 15	1.6
ANNUAL SEVEN-DAY MINIMUM	1.7	Jun 11	1.8
ANNUAL RUNOFF (AC-FT)	1450	1590	1460
10 PERCENT EXCEEDS	2.2	2.7	2.5
50 PERCENT EXCEEDS	2.0	2.1	1.9
90 PERCENT EXCEEDS	1.8	1.9	1.8

10271200 BISHOP CREEK ABOVE POWERPLANT NO. 6, NEAR BISHOP, CA

LOCATION.--Lat 37°21'00", long 118°27'42", in SE 1/4 SE 1/4 sec.9, T.7 S., R.32 E., Inyo County, Hydrologic Unit 18090102, on left bank adjacent to Powerplant No. 6 tailrace and 3.8 mi west of Bishop.

DRAINAGE AREA.--104 mi².

PERIOD OF RECORD.--October 1990 to current year. If records for Bishop Creek Powerplant No. 6 Conduit (station 10271060) are combined with this record, a record equivalent to that published since October 1936 as Bishop Creek below Powerplant No. 6, near Bishop, discontinued September 1990, can be obtained. Monthly and yearly mean discharge prior to October 1969, published in WSP 2127.

GAGE.--Water-stage recorder and Parshall flume. Elevation of gage is 4,510 ft above sea level, from topographic map.

REMARKS.--Flow regulated for power development by South Lake, Lake Sabrina, and Intake No. 2 Reservoir (stations 10270700, 10270870, and 10270875), combined capacity, 20,311 acre-ft, and five powerplants. Water is diverted into basin via Birch-McGee Diversion (station 10270900). Water is diverted out of basin via Abelour Ditch (station 10270985) for irrigation and domestic use. Diversion to Bishop Creek Powerplant No. 6 (station 10271060) bypasses this station and is published as a line item below.

COOPERATION.--Records collected by Southern California Edison 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, 421 ft³/s, July 31, 1995, gage height, 3.71 ft; no flow on many days in 1991 and 1992.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 421 ft³/s, July 31, gage height, 3.71 ft; minimum daily, 0.71 ft³/s, May 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	1.5	2.0	1.9	2.0	2.3	1.5	1.8	1.5	14	e165	375	26
2	1.5	1.9	2.8	2.3	2.3	1.5	2.0	1.6	7.7	e160	342	e29
3	1.5	1.7	3.0	46	2.3	1.4	2.2	1.4	13	e166	323	e42
4	1.5	1.7	3.0	55	2.3	1.2	2.1	1.2	15	e157	318	e60
5	1.5	1.7	2.8	56	2.3	1.4	2.0	1.1	29	158	323	e73
6	1.7	1.5	2.3	40	2.5	1.4	2.0	.71	25	175	325	e71
7	1.8	1.5	2.3	5.2	2.3	1.6	2.0	.74	11	186	291	e55
8	1.7	1.5	2.3	2.3	2.3	1.7	2.8	.78	5.1	192	273	e42
9	1.7	1.5	2.8	2.3	3.6	1.9	2.1	.74	3.6	e250	233	e30
10	1.7	1.5	2.5	3.1	3.5	6.3	1.9	1.2	15	e400	192	e26
11	1.7	1.5	2.3	2.5	2.3	3.0	2.0	2.0	32	362	175	e13
12	1.7	1.5	2.3	2.3	2.1	2.5	2.3	5.0	84	266	150	e11
13	1.7	1.5	2.3	2.3	2.0	1.7	2.6	1.7	106	209	136	e12
14	2.0	1.5	2.7	2.3	2.0	1.5	3.0	1.7	92	e192	129	e5.0
15	1.7	1.5	2.6	2.3	2.0	1.5	2.0	1.7	74	e190	126	e5.0
16	1.7	1.5	2.5	2.3	2.0	1.5	2.1	1.7	59	e200	124	e3.0
17	1.7	1.5	2.4	2.3	2.0	1.5	2.0	1.5	53	e245	122	e1.5
18	1.7	1.5	2.3	2.3	2.0	1.5	2.0	1.5	46	e345	118	e2.8
19	1.7	1.7	2.3	2.3	2.0	1.5	2.0	1.7	43	e315	113	4.1
20	1.7	1.5	2.3	2.5	1.8	1.5	2.0	1.5	41	e290	109	3.1
21	1.7	1.5	2.2	2.6	1.7	1.5	2.0	1.5	42	e275	105	2.3
22	1.7	1.5	2.0	2.3	1.7	1.4	1.9	1.6	64	e264	91	2.3
23	1.7	1.6	2.0	2.3	1.7	1.5	1.8	1.5	e76	e255	97	2.2
24	1.7	1.6	2.3	2.3	1.7	1.4	1.7	1.5	e73	e242	137	2.0
25	1.7	1.5	2.3	2.6	1.7	1.3	1.8	1.5	e90	e210	141	2.0
26	1.7	1.4	2.3	2.3	1.7	1.2	1.7	1.5	e111	e190	114	2.0
27	2.3	1.5	2.3	2.3	1.7	1.4	1.7	3.4	e132	e173	90	2.1
28	2.3	1.6	2.2	2.3	2.5	1.3	1.5	1.3	e150	188	75	2.0
29	2.3	1.5	2.0	2.3	---	1.2	1.4	1.3	e170	244	66	2.0
30	2.0	1.5	2.0	2.3	---	1.2	2.0	1.8	e172	359	49	2.0
31	2.0	---	2.0	2.3	---	1.3	---	5.2	---	407	41	---
TOTAL	54.5	46.9	73.3	263.5	60.3	52.3	60.4	53.07	1848.4	7430	5303	535.4
MEAN	1.76	1.56	2.36	8.50	2.15	1.69	2.01	1.71	61.6	240	171	17.8
MAX	2.3	2.0	3.0	56	3.6	6.3	3.0	5.2	172	407	375	73
MIN	1.5	1.4	1.9	2.0	1.7	1.2	1.4	.71	3.6	157	41	1.5
AC-FT	108	93	145	523	120	104	120	105	3670	14740	10520	1060
a	3740	3480	3560	3350	6580	8060	7580	7530	9010	9400	9440	8220

e Estimated.

a Diversion, in acre-feet to Bishop Creek Powerplant No. 6, provided by Southern California Edison Co.

10271200 BISHOP CREEK ABOVE POWERPLANT NO. 6, NEAR BISHOP, 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	.80	3.43	.93	2.16	1.32	3.03	.89	4.60	17.5	60.7	41.9	4.54
MAX	1.78	14.9	2.36	8.50	2.35	7.54	2.01	19.1	61.6	240	171	17.8
(WY)	1994	1994	1995	1995	1992	1994	1995	1993	1995	1995	1995	1995
MIN	.11	.19	.19	.17	.21	.19	.18	.12	.064	.035	.048	.082
(WY)	1993	1991	1993	1993	1993	1992	1992	1992	1992	1992	1992	1992

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR				FOR 1995 WATER YEAR				WATER YEARS 1991 - 1995			
ANNUAL TOTAL	849.8				15781.07							
ANNUAL MEAN	2.33				43.2				11.9			
HIGHEST ANNUAL MEAN									43.2			
LOWEST ANNUAL MEAN									.34			
HIGHEST DAILY MEAN	52				407				407			
LOWEST DAILY MEAN	1.1				.71				.00			
ANNUAL SEVEN-DAY MINIMUM	1.3				.92				.00			
INSTANTANEOUS PEAK FLOW					421				421			
INSTANTANEOUS PEAK STAGE					3.71				3.71			
ANNUAL RUNOFF (AC-FT)	1690				31300				8660			
ANNUAL DIVERSION (AC-FT) a	54300				79950							
10 PERCENT EXCEEDS	2.3				174				28			
50 PERCENT EXCEEDS	1.7				2.3				.60			
90 PERCENT EXCEEDS	1.5				1.5				.11			

a Diversion, in acre-feet to Bishop Creek Powerplant No. 6, provided by Southern California Edison Co.

10287060 LUNDY LAKE NEAR LEE VINING, CA

LOCATION.--Lat 38°01'56", Long 119°13'11", in NW 1/4 SE 1/4 sec.16, T.2 N., R.25 E., Mono County, Hydrologic Unit 18090101, near right abutment of spillway of Lundy Lake Dam on Mill Creek and 7.6 mi northwest of Lee Vining.

RAINAGE AREA.--16.3 mi².

PERIOD OF RECORD.--October 1990 to current year. Unpublished records prior to October 1990 available in files of Southern California Edison Co.

GAGE.--Water-stage recorder. Datum of gage is sea level (levels by Southern California Edison Co.).

REMARKS.--Reservoir is formed on natural lake by rock-fill dam completed in 1910. Usable capacity, 4,113 acre-ft between elevations 7,766.43 ft, invert of outlet, and 7,807.81 ft, crest of spillway. Figures given represent usable contents. Water is used for power development and irrigation downstream.

OPERATION.--Records were collected by Southern California Edison Co., under general supervision of the U.S. Geological Survey, in connection with a Federal Energy Regulatory Commission project. Contents not rounded to U.S. Geological Survey standards.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 4,171 acre-ft, July 29, 1995, elevation, 7,808.25 ft; minimum, 440 acre-ft, Apr. 19, 1993, elevation, 7,773.08 ft.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 4,171 acre-ft, July 29, elevation, 7,808.25 ft; minimum, 627 acre-ft, Apr. 25, elevation, 7,775.37 ft.

Capacity table (elevation, in feet, and contents, in acre-feet)
(Based on survey by Southern California Edison Co., dated Aug. 17, 1981)

7,766.43	0	7,790	2,001
7,770	213	7,800	3,126
7,780	1,027	7,810	4,406

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	1188	1254	1408	1524	e1725	1811	905	785	1201	3389	4139	3877
2	1184	1251	1417	1527	e1728	1818	866	814	1353	3408	4139	3840
3	1183	1253	1419	1529	1730	1830	827	814	1483	3429	4137	3819
4	1197	1252	1423	1539	1733	1834	791	811	1643	3453	4142	3804
5	1204	1270	1432	1544	1739	1833	761	804	1831	3483	4149	3784
6	1206	1278	1434	1551	1744	1818	749	787	1970	3558	4146	3747
7	1210	1282	1438	1562	1753	1768	751	767	2052	3673	4121	3699
8	1213	1289	1441	1564	1754	1719	745	744	2088	3796	4123	3645
9	1215	1292	1445	1567	1757	1703	738	720	2101	4010	4104	3587
10	1216	1298	1452	1592	1759	1694	731	701	2123	4105	4072	3524
11	1217	1302	1453	1596	1765	1650	726	692	2200	4085	4073	3463
12	1220	1306	1458	1602	1764	1605	726	688	2336	4057	4101	3397
13	1222	1309	1465	1610	1762	1564	725	696	2499	4028	4118	3368
14	1225	1312	1473	1625	1765	1521	720	698	2636	4047	4129	3347
15	1227	1319	1474	1633	1766	1479	715	698	2705	4118	4131	3324
16	1228	1327	1479	1640	1764	1439	710	684	2720	4151	4134	3312
17	1229	1332	1483	1643	1763	1397	701	672	2696	4164	4125	3307
18	1230	1337	1482	1650	1763	1372	692	668	2661	4155	4131	3303
19	1232	1339	1484	1653	1763	1339	684	687	2627	4151	4123	3297
20	1234	1343	1488	1658	1762	1327	674	727	2598	4146	4119	3287
21	1235	1347	1490	1663	1763	1303	661	792	2569	4151	4117	3281
22	1237	1352	1492	1669	1766	1277	649	839	2551	4151	4127	3274
23	1239	1355	1499	1680	1770	1258	637	863	2574	4139	4141	3264
24	1241	1360	1502	1692	1774	1225	630	884	2661	4133	4141	3252
25	1242	1376	1505	1704	1780	1189	627	890	2814	4129	4135	3236
26	1244	1386	1508	e1707	1786	1151	628	883	2987	4125	4118	3220
27	1245	1391	1512	e1709	1790	1111	641	876	3116	4134	4096	3201
28	1243	1395	1516	e1712	1804	1070	654	877	3225	4154	4063	3183
29	1245	1397	1518	e1715	---	1031	680	901	3322	4171	4023	3161
30	1247	1403	1520	e1718	---	989	723	955	3382	4163	3977	3137
31	1249	---	1522	e1721	---	946	---	1046	---	4147	3927	---
AX	1249	1403	1522	1721	1804	1834	905	1046	3382	4171	4149	3877
IN	1183	1251	1408	1524	1725	946	627	668	1201	3389	3927	3137
a	7782.42	7784.05	7785.28		7788.10	7779.09	7776.52	7780.15	7801.92	7808.07	7806.39	7800.09
b	+54	+154	+119	+199	+83	-858	-223	+323	+2336	+765	-220	-790

AL YR 1994 MAX 2888 MIN 1183 b -512
TR YR 1995 MAX 4171 MIN 627 b +1942

e Estimated.

a Elevation, in feet, at end of month.

b Change in contents, in acre-feet.

10287069 MILL CREEK FLUME BELOW LUNDY LAKE, NEAR LEE VINING, CA

LOCATION.--Lat 38°01'59", long 119°12'56", in SE 1/4 NE 1/4 sec.16, T.2 N., R.25 E., Mono County, Hydrologic Unit 18090101, on left bank, 20 ft upstream from Deer Creek, 70 ft downstream from road culvert, 1,400 ft downstream from Lundy Lake Dam, and 7.5 mi northwest of Lee Vining.

DRAINAGE AREA.--18.1 mi².

PERIOD OF RECORD.--October 1990 to current year. If records for Upper Conway Ditch and Lundy Powerplant tailrace (stations 10287145 and 10287195) are combined with this record, a record equivalent to that published since October 1942 as Mill Creek below Lundy Lake, near Mono Lake can be obtained. Monthly and yearly mean discharges prior to October 1969, published in WSP 2127.

GAGE.--Water-stage recorder and 5-ft Cipolletti weir (since May 12, 1992) set in Parshall flume. Elevation of gage is 7,760 ft above sea level, from topographic map.

REMARKS.--No estimated daily discharges. Flow regulated by Lundy Lake (station 10287060). Most of the water is diverted at Lundy Lake via Lundy Powerplant to Upper Conway Ditch and Lundy Powerplant Tailrace for power development and irrigation.

COOPERATION.--Records collected by Southern California Edison 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, 152 ft³/s, July 29, 1995, gage height, 2.62 ft; no flow for many days each year.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 152 ft³/s, July 29, gage height, 2.62 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	.00	.00	.00	.00	.00	.00	.00	.00	.00	119	79	7.9
2	.00	.00	.00	.00	.00	.00	.00	.00	.02	119	76	7.7
3	.00	.00	.00	.00	.00	.00	.00	.00	.00	119	66	7.6
4	.00	.00	.00	.00	.00	.00	.00	.00	.00	121	66	7.4
5	.00	.00	.00	.00	.00	.00	.00	.00	.00	117	77	7.3
6	.00	.00	.00	.00	.00	.00	.00	.00	.22	116	82	7.1
7	.00	.00	.00	.00	.00	.00	.00	.00	.50	118	72	7.1
8	.00	.00	.00	.00	.00	.00	.00	.00	.61	120	51	6.9
9	.00	.00	.00	.00	.00	.00	.00	.00	.72	124	50	6.7
10	.00	.00	.00	.00	.00	.00	.00	.00	.84	127	51	6.4
11	.00	.00	.00	.00	.00	.00	.00	.00	.89	128	28	6.1
12	.00	.00	.00	.00	.00	.00	.00	.00	1.0	102	9.8	6.0
13	.00	.00	.00	.00	.00	.00	.00	.00	1.2	83	10	5.3
14	.00	.00	.00	.00	.00	.00	.00	.00	21	57	12	5.2
15	.00	.00	.00	.00	.00	.00	.00	.00	40	42	19	5.2
16	.00	.00	.00	.00	.00	.00	.00	.00	41	77	22	5.1
17	.00	.00	.00	.00	.00	.00	.00	.00	41	109	22	4.9
18	.00	.00	.00	.00	.00	.00	.00	.00	41	101	12	4.9
19	.00	.00	.00	.00	.00	.00	.00	.04	40	95	12	4.9
20	.00	.00	.00	.00	.00	.00	.00	.00	40	85	10	4.9
21	.00	.00	.00	.00	.00	.00	.00	.00	40	90	9.7	4.9
22	.00	.00	.00	.00	.00	.00	.00	.00	39	98	10	4.9
23	.00	.00	.00	.00	.00	.00	.00	.00	39	82	21	4.9
24	.00	.00	.00	.00	.00	.00	.00	.00	40	72	27	4.9
25	.00	.00	.00	.00	.00	.00	.00	.00	41	69	21	4.9
26	.00	.00	.00	.00	.00	.00	.00	.00	60	67	14	4.8
27	.00	.00	.00	.00	.00	.00	.00	.00	88	65	10	4.7
28	.00	.00	.00	.00	.00	.00	.00	.00	108	85	9.5	4.7
29	.00	.00	.00	.00	---	.00	.00	.00	112	110	8.8	4.6
30	.00	.00	.00	.00	---	.00	.00	.00	117	130	8.5	4.4
31	.00	---	.00	.00	---	.00	---	.00	---	96	8.2	---
TOTAL	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04	954.00	3043	974.5	172.3
MEAN	.000	.000	.000	.000	.000	.000	.000	.001	31.8	98.2	31.4	5.74
MAX	.00	.00	.00	.00	.00	.00	.00	.04	117	130	82	7.9
MIN	.00	.00	.00	.00	.00	.00	.00	.00	.00	42	8.2	4.4
AC-FT	.00	.00	.00	.00	.00	.00	.00	.08	1890	6040	1930	342

10287069 MILL CREEK FLUME BELOW LUNDY LAKE, NEAR LEE VINING, 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	.89	.28	.12	.021	.000	.000	.009	.012	7.52	24.1	8.63	2.78
MAX	2.53	1.38	.60	.11	.000	.001	.044	.052	31.8	98.2	31.4	5.74
WY)	1994	1994	1994	1994	1991	1994	1994	1994	1995	1995	1995	1995
MIN	.000	.000	.000	.000	.000	.000	.000	.000	.61	1.72	.17	.000
WY)	1991	1991	1991	1991	1991	1991	1991	1991	1993	1994	1994	1994

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR				FOR 1995 WATER YEAR				WATER YEARS 1991 - 1995			
ANNUAL TOTAL	121.68				5143.84							
ANNUAL MEAN	.33				14.1				3.74			
HIGHEST ANNUAL MEAN									14.1			
LOWEST ANNUAL MEAN									.69			
HIGHEST DAILY MEAN	2.8 Jun 19				130 Jul 30				130 Jul 30 1995			
LOWEST DAILY MEAN	.00 Jan 25				.00 Oct 1				.00 Oct 1 1990			
ANNUAL SEVEN-DAY MINIMUM	.00 Jan 25				.00 Oct 1				.00 Oct 1 1990			
INSTANTANEOUS PEAK FLOW					152 Jul 29				152 Jul 29 1995			
INSTANTANEOUS PEAK STAGE					2.62 Jul 29				2.62 Jul 29 1995			
ANNUAL RUNOFF (AC-FT)	241				10200				2710			
0 PERCENT EXCEEDS	1.6				68				4.5			
0 PERCENT EXCEEDS	.00				.00				.00			
0 PERCENT EXCEEDS	.00				.00				.00			

10287145 UPPER CONWAY DITCH NEAR LEE VINING, CA

LOCATION.--Lat 38°02'32", long 119°10'18", in SE 1/4 SW 1/4 sec.12, T.2 N., R.25 E., Mono County, Hydrologic Unit 18090101, on left bank, 200 ft downstream from ditch inlet and Lundy Powerplant, and 6.6 mi northwest of Lee Vining.

PERIOD OF RECORD.--October 1990 to current year. Unpublished records prior to October 1990 available in files of Southern California Edison Co.

GAGE.--Water-stage recorder and Parshall flume. Elevation of gage is 7,020 ft above sea level, from topographic map.

REMARKS.--No estimated daily discharges. Flow regulated at Lundy Powerplant during irrigation season.

COOPERATION.--Records collected by Southern California Edison 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, 14 ft³/s, July 19, 1991; no flow for many days each year.

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	.00	.00	.00	.00	.00	7.2	10	.00
2	.00	.00	.00	.00	.00	.00	.00	.00	.00	7.3	11	.00
3	.00	.00	.00	.00	.00	.00	.00	.00	.00	7.2	11	.00
4	.00	.00	.00	.00	.00	.00	.00	.00	.00	7.3	11	.00
5	.00	.00	.00	.00	.00	.00	.00	.00	.00	7.3	11	.00
6	.00	.00	.00	.00	.00	.00	.00	.00	.00	7.4	10	.00
7	.00	.00	.00	.00	.00	.00	.00	.00	3.2	7.4	10	.00
8	.00	.00	.00	.00	.00	.00	.00	.00	7.2	7.4	10	.00
9	.00	.00	.00	.00	.00	.00	.00	.00	7.4	7.4	10	.00
10	.00	.00	.00	.00	.00	.00	.00	.00	7.4	7.4	10	.00
11	.00	.00	.00	.00	.00	.00	.00	.00	7.4	7.4	10	.00
12	.00	.00	.00	.00	.00	.00	.00	.00	7.3	7.4	10	.00
13	.00	.00	.00	.00	.00	.00	.00	.00	7.4	7.4	10	.00
14	.00	.00	.00	.00	.00	.00	.00	.00	7.6	7.4	10	.00
15	.00	.00	.00	.00	.00	.00	.00	.00	7.6	7.8	11	.00
16	.00	.00	.00	.00	.00	.00	.00	.00	7.7	9.2	11	.00
17	.00	.00	.00	.00	.00	.00	.00	.00	7.7	10	11	.00
18	.00	.00	.00	.00	.00	.00	.00	.00	7.8	10	11	.00
19	.00	.00	.00	.00	.00	.00	.00	.00	7.9	10	11	.00
20	.00	.00	.00	.00	.00	.00	.00	.00	7.9	10	11	.00
21	.00	.00	.00	.00	.00	.00	.00	.00	7.9	10	11	.00
22	.00	.00	.00	.00	.00	.00	.00	.00	7.9	10	11	.00
23	.00	.00	.00	.00	.00	.00	.00	.00	7.9	10	11	.00
24	.00	.00	.00	.00	.00	.00	.00	.00	7.9	10	11	.00
25	.00	.00	.00	.00	.00	.00	.00	.00	8.0	10	11	.00
26	.00	.00	.00	.00	.00	.00	.00	.00	8.2	10	11	.00
27	.00	.00	.00	.00	.00	.00	.00	.00	8.2	10	11	.00
28	.00	.00	.00	.00	.00	.00	.00	.00	8.2	10	11	.00
29	.00	.00	.00	.00	---	.00	.00	.00	7.8	10	11	.00
30	.00	.00	.00	.00	---	.00	.00	.00	7.3	10	3.6	.00
31	.00	---	.00	.00	---	.00	---	.00	---	10	.00	---
TOTAL	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	180.80	269.9	312.60	0.00
MEAN	.000	.000	.000	.000	.000	.000	.000	.000	6.03	8.71	10.1	.000
MAX	.00	.00	.00	.00	.00	.00	.00	.00	8.2	10	11	.00
MIN	.00	.00	.00	.00	.00	.00	.00	.00	.00	7.2	.00	.00
AC-FT	.00	.00	.00	.00	.00	.00	.00	.00	359	535	620	.00

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1991 - 1995, BY WATER YEAR (WY)

MEAN	.000	.000	.000	.000	.000	.000	.000	.40	6.18	8.65	7.77	1.51
MAX	.000	.001	.000	.000	.000	.000	.000	1.18	9.77	11.9	12.0	4.23
(WY)	1991	1992	1991	1991	1991	1991	1991	1992	1991	1991	1991	1991
MIN	.000	.000	.000	.000	.000	.000	.000	.000	1.97	5.75	2.60	.000
(WY)	1991	1991	1991	1991	1991	1991	1991	1991	1994	1994	1994	1994

SUMMARY STATISTICS

FOR 1994 CALENDAR YEAR

FOR 1995 WATER YEAR

WATER YEARS 1991 - 1995

ANNUAL TOTAL	317.90	763.30	
ANNUAL MEAN	.87	2.09	2.06
HIGHEST ANNUAL MEAN			3.18
LOWEST ANNUAL MEAN			.87
HIGHEST DAILY MEAN	7.4 Jul 17	11 Aug 2	14 Jul 19 1991
LOWEST DAILY MEAN	.00 Jan 1	.00 Oct 1	.00 Oct 1 1990
ANNUAL SEVEN-DAY MINIMUM	.00 Jan 1	.00 Oct 1	.00 Oct 1 1990
ANNUAL RUNOFF (AC-FT)	631	1510	1490
10 PERCENT EXCEEDS	4.1	10	9.0
50 PERCENT EXCEEDS	.00	.00	.00
90 PERCENT EXCEEDS	.00	.00	.00

10287195 LUNDY POWERPLANT TAILRACE NEAR LEE VINING, CA

LOCATION.--Lat 38°02'34", long 119°10'18", in SE 1/4 SW 1/4 sec.12, T.2 N., R.25 E., Mono County, Hydrologic Unit 18090101, on right bank 200 ft downstream from Lundy Powerplant and 6.6 mi northwest of Lee Vining.

PERIOD OF RECORD.--October 1990 to current year. Unpublished records prior to October 1990 available in files of Southern California Edison Co.

AGE.--Water-stage recorder and culvert control. Elevation of gage is 7,020 ft above sea level, from topographic map.

REMARKS.--No estimated daily discharges. Water is diverted from Lundy Lake (station 10287060) to Lundy Powerplant. Diversion upstream during irrigation season to Upper Conway Ditch (station 10287145).

COOPERATION.--Records collected by Southern California Edison Co., under general supervision of the U.S. Geological Survey, in connection with a Federal Energy Regulatory Commission project.

XTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 68 ft³/s, Aug. 31 to Sept. 12, 1995; minimum daily, 4.4 ft³/s, Aug. 29 to Sept. 1, 1992.

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	9.8	6.3	6.3	6.3	6.4	7.8	35	23	61	60	57	68
2	7.7	6.3	6.3	6.3	6.5	7.8	35	34	61	60	57	68
3	6.1	6.3	6.2	6.3	6.6	7.9	35	46	61	60	57	68
4	6.2	6.3	6.3	6.3	6.6	7.9	35	46	61	60	57	68
5	6.2	6.3	6.3	6.2	6.6	7.9	35	46	61	60	57	68
6	6.1	6.3	6.3	6.3	6.6	19	27	46	61	60	57	68
7	6.1	6.3	6.3	6.2	6.7	33	23	46	60	60	57	68
8	6.1	6.3	6.3	6.2	6.8	34	23	46	61	60	57	68
9	6.1	6.3	6.3	6.3	7.2	34	23	46	61	60	57	68
10	6.1	6.3	6.3	6.3	8.1	34	23	46	61	60	57	68
11	6.1	6.3	6.3	6.2	8.4	34	23	46	61	60	57	68
12	6.1	6.3	6.3	6.3	8.3	34	23	42	61	60	57	68
13	6.1	6.3	6.3	6.2	8.3	34	23	37	61	60	57	50
14	6.1	6.3	6.3	6.3	8.2	34	23	37	59	60	57	43
15	6.1	6.3	6.3	6.3	8.1	34	23	37	60	60	57	43
16	6.1	6.4	6.3	6.3	8.1	34	23	37	60	58	57	37
17	6.1	6.3	6.3	6.3	8.1	34	23	37	60	57	57	32
18	6.1	6.3	6.3	6.3	8.1	34	23	37	60	57	57	31
19	6.1	6.3	6.3	6.3	8.1	34	23	37	60	57	57	31
20	6.2	6.3	6.3	6.3	8.0	34	23	37	60	57	57	31
21	6.2	6.3	6.4	6.3	7.8	35	23	37	60	57	57	31
22	6.3	6.3	6.3	6.3	7.8	34	23	52	60	57	57	31
23	6.3	6.3	6.3	6.3	7.8	34	23	61	60	57	57	31
24	6.3	6.3	6.2	6.3	7.8	34	23	61	60	57	57	31
25	6.3	6.3	6.2	6.3	7.8	34	23	61	60	57	57	31
26	6.3	6.3	6.3	6.4	7.8	34	23	61	60	57	57	31
27	6.3	6.3	6.3	6.4	7.8	35	23	61	61	57	57	31
28	6.3	6.2	6.3	6.4	7.8	35	23	61	61	57	57	31
29	6.3	6.3	6.3	6.4	---	35	23	61	60	57	57	31
30	6.3	6.3	6.3	6.4	---	35	23	61	60	57	65	31
31	6.3	---	6.3	6.4	---	35	---	61	---	57	68	---
TOTAL	196.8	189.0	195.1	195.4	212.2	913.3	754	1447	1813	1813	1786	1424
MEAN	6.35	6.30	6.29	6.30	7.58	29.5	25.1	46.7	60.4	58.5	57.6	47.5
MAX	9.8	6.4	6.4	6.4	8.4	35	35	61	61	60	68	68
MIN	6.1	6.2	6.2	6.2	6.4	7.8	23	23	59	57	57	31
AC-FT	390	375	387	388	421	1810	1500	2870	3600	3600	3540	2820

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1991 - 1995, BY WATER YEAR (WY)

	1991	1992	1993	1994	1995
MEAN	6.75	7.01	6.84	7.74	7.85
MAX	10.9	9.81	9.90	9.87	11.1
WY)	1994	1994	1994	1992	1993
MIN	5.15	5.33	5.30	5.50	4.67
WY)	1993	1991	1993	1991	1994

SUMMARY STATISTICS

FOR 1994 CALENDAR YEAR

FOR 1995 WATER YEAR

WATER YEARS 1991 - 1995

ANNUAL TOTAL	4986.5	10938.8	
ANNUAL MEAN	13.7	30.0	18.6
HIGHEST ANNUAL MEAN			30.0
LOWEST ANNUAL MEAN			11.3
HIGHEST DAILY MEAN	48	May 14	68
LOWEST DAILY MEAN	4.6	Feb 8	6.1
ANNUAL SEVEN-DAY MINIMUM	4.6	Feb 8	6.1
ANNUAL RUNOFF (AC-FT)	9890	21700	13500
0 PERCENT EXCEEDS	29	61	55
10 PERCENT EXCEEDS	9.7	27	9.8
50 PERCENT EXCEEDS	4.7	6.3	5.2

10287260 WAUGH LAKE NEAR JUNE LAKE, CA

LOCATION.--Lat 37°45'04", long 119°10'52", unsurveyed, T.2 S., R.25 E., Mono County, Hydrologic Unit 18090101, Inyo National Forest, near outlet at base of Rush Creek Meadows Dam on Rush Creek and 6.0 mi southwest of town of June Lake.

DRAINAGE AREA.--15.3 mi².

PERIOD OF RECORD.--October 1990 to current year. Unpublished records prior to October 1990 available in files of Southern California Edison Co.

GAGE.--Water-stage recorder. Datum of gage is sea level (levels by Southern California Edison Co.).

REMARKS.--Reservoir is formed by concrete dam completed in 1925. Total capacity, 5,277 acre-ft between elevations 9,368.60 ft, invert of outlet, and 9,415.61 ft, crest of spillway, all of which are available for release. Figures given represent total contents. Water is used for power development downstream.

COOPERATION.--Records collected by Southern California Edison Co., under general supervision of the U.S. Geological Survey, in connection with a Federal Energy Regulatory Commission project. Contents not rounded to U.S. Geological Survey standards.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 5,696 acre-ft, July 8, 1995, elevation, 9,417.84 ft; minimum, no storage in each year.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 5,696 acre-ft, July 8, elevation, 9,417.84 ft; minimum, no storage for many days.

Capacity table (elevation, in feet, and contents, in acre-feet)
(Based on survey by Southern California Edison Co., dated Aug. 18, 1981)

9,375	0	9,400	2,670
9,380	148	9,405	3,447
9,385	681	9,410	4,277
9,390	1,283	9,418	5,727
9,395	1,948		

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	.00	.00	.00	.00	.00	.00	.00	.00	702	5461	5446	5291
2	.00	.00	.00	.00	.00	.00	.00	.00	710	5518	5424	5351
3	.00	.00	.00	.00	.00	.00	.00	.00	782	5541	5426	5396
4	.00	.00	.00	.00	.00	.00	.00	.00	964	5518	5469	5411
5	.00	.00	.00	.00	.00	.00	.00	.00	1067	5560	5469	5334
6	.00	.00	.00	.00	.00	.00	.00	.00	979	5607	5401	5323
7	.00	.00	.00	.00	.00	.00	.00	.00	810	5580	5373	5334
8	.00	.00	.00	.00	.00	.00	.00	.00	550	5696	5345	5323
9	.00	.00	.00	.00	.00	.00	.00	.00	258	5632	5334	5316
10	.00	.00	.00	.00	.00	.00	.00	.00	436	5541	5329	5306
11	.00	.00	.00	.00	.00	.00	.00	.00	711	5450	5295	5301
12	.00	.00	.00	78	.00	.00	.00	.00	962	5400	5254	5264
13	.00	.00	.00	8.2	.00	.00	.00	.00	1184	5407	5217	5188
14	.00	.00	.00	.00	.00	.00	.00	.00	1302	5456	5184	5108
15	.00	.00	.00	.00	.00	.00	.00	.00	1271	5512	5171	5030
16	.00	.00	.00	.00	.00	.00	.00	.00	1054	5524	5164	4952
17	.00	.00	.00	.00	.00	.00	.00	.00	865	5592	5212	4869
18	.00	.00	.00	.00	.00	.00	.00	.00	745	5539	5299	4778
19	.00	.00	.00	.00	.00	.00	.00	.00	691	5494	5336	4687
20	.00	.00	.00	.00	.00	.00	.00	.00	732	5503	5355	4598
21	.00	.00	.00	.00	.00	.00	.00	2.3	878	5518	5396	4512
22	.00	.00	.00	.00	.00	.00	.00	3.6	1129	5454	5411	4425
23	.00	.00	.00	.00	.00	.00	.00	1.0	1499	5435	5398	4333
24	.00	.00	.00	.00	.00	.00	.00	.00	1987	5445	5381	4239
25	.00	.00	.00	.00	.00	.00	.00	.00	2561	5439	5351	4141
26	.00	.00	.00	.00	.00	.00	.00	.00	3118	5433	5325	4038
27	.00	.00	.00	.00	.00	.00	.00	1.1	3658	5497	5303	3931
28	.00	.00	.00	.00	.00	.00	.00	43	4188	5541	5282	3821
29	.00	.00	.00	.00	---	.00	.00	374	4698	5607	5254	3709
30	.00	.00	.00	.00	---	.00	.00	528	5131	5480	5223	3593
31	.00	---	.00	.00	---	.00	---	627	---	5443	5234	---
MAX	.00	.00	.00	78	.00	.00	.00	627	5131	5696	5469	5411
MIN	.00	.00	.00	.00	.00	.00	.00	.00	258	5400	5164	3593
a	9370.32	9370.75	9370.68	9371.01	9371.19	9370.68	9371.26	9384.52	9414.82	9416.50	9415.38	9405.90
b	0	0	0	0	0	0	0	+627	+4504	+312	-209	-1641

CAL YR 1994 MAX 5456 MIN .00 b 0
WTR YR 1995 MAX 5696 MIN .00 b +3593

a Elevation, in feet, at end of month.
b Change in contents, in acre-feet.

10287280 GEM LAKE NEAR JUNE LAKE, CA

LOCATION.--Lat 37°45'07", long 119°08'25", unsurveyed, T.2 S., R.26 E., Mono County, Hydrologic Unit 18090101, Inyo National Forest, in valve house 100 ft downstream from left abutment of dam on Rush Creek and 4.0 mi southwest of town of June Lake.

RAINAGE AREA.--22.0 mi².

PERIOD OF RECORD.--October 1990 to current year. Unpublished records prior to October 1990 available in files of Southern California Edison Co.

AGE.--Water-stage recorder. Datum of gage is sea level (levels by Southern California Edison Co.).

REMARKS.--Reservoir is formed on natural lake by concrete dam completed in 1916. Usable capacity, 17,798 acre-ft between elevations 8,964.33 ft, invert of outlet, and 9,053.64 ft, crest of upper spillway. Figures given represent usable contents. Water is used for power development downstream.

OPERATION.--Records collected by Southern California Edison Co., under general supervision of the U.S. Geological Survey, in connection with a Federal Energy Regulatory Commission project. Contents not rounded to U.S. Geological Survey standards.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 17,553 acre-ft, July 29, 1995, elevation, 9,052.78 ft; minimum, 895 acre-ft, Apr. 24, 1993, elevation, 8,982.55 ft.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 17,553 acre-ft, July 29, elevation, 9,052.78 ft; minimum, 1,881 acre-ft, May 19, elevation, 8,987.83 ft.

Capacity table (elevation, in feet, and contents, in acre-feet)
(Based on survey by Southern California Edison Co., dated Sept. 1, 1981)

8,980	441	9,010	6,547
8,985	1,348	9,025	10,121
8,990	2,300	9,040	14,023
9,000	4,345	9,055	18,187

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	10629	10508	9339	7639	6410	4159	e2741	3321	3764	8586	17380	16926
2	10614	10455	9270	7569	6343	4125	e2694	3302	4055	9321	17355	16850
3	10566	10407	9241	7523	6246	4043	e2613	3267	4372	9879	17329	16825
4	10563	10337	9192	7476	6163	3978	e2637	3245	4757	10395	17312	16881
5	10563	10309	9143	7427	6096	3918	e2690	3241	5130	10921	17349	16912
6	10563	10307	9141	7383	6006	3827	e2737	3160	5465	11717	17343	16906
7	10558	10284	9013	7360	5916	3749	e2792	3040	5754	12380	17250	16853
8	10543	10256	8962	7313	5916	3676	e2814	2918	5981	13216	17363	16763
9	10543	10206	8926	7287	5762	e3629	e2853	2782	6181	14454	17383	16690
10	10543	10194	8839	7313	5687	e3588	e2894	2682	6386	15112	17437	16567
11	10541	10153	8805	7269	5616	e3547	e2925	2623	6719	15458	17462	16452
12	10528	10131	8756	7243	5550	e3516	e3030	2542	7096	15582	17462	16366
13	10513	10081	8708	7220	5439	e3502	e3067	2463	7292	15639	17462	16321
14	10490	10029	8660	7241	5362	e3477	e3086	2349	7476	15750	17443	16282
15	10462	9984	8588	7241	5276	e3451	e3152	2236	7588	15971	17420	16229
16	10437	9956	8540	7197	5209	e3426	e3176	2135	7632	16271	17394	16179
17	10415	9909	8468	7174	5132	e3380	e3192	1966	7642	16671	17343	16152
18	10387	9882	8421	7130	5055	e3356	e3238	1893	7642	17064	17298	16099
19	10407	9835	8351	7075	4979	e3310	e3284	1881	7644	17312	17273	16046
20	10412	9790	8282	7022	4979	e3265	e3330	1931	7600	17377	17275	15993
21	10437	9758	8232	6990	4776	e3221	e3376	2060	7525	17428	17332	15929
22	10447	9708	8182	6930	4693	e3176	e3422	2200	7458	17434	17389	15888
23	10462	9658	8111	6898	4622	e3152	e3435	2282	7444	17374	17417	15822
24	10462	9634	8070	6875	4536	e3096	3466	2357	7530	17349	17414	15786
25	10488	9587	8018	6829	4468	e3063	3447	2395	7670	17349	17397	15711
26	10465	9540	7962	6783	4389	e3017	3385	2399	7839	17346	17357	15653
27	10465	9510	7922	6715	4293	e2972	3364	2477	8004	17326	17298	15601
28	10470	9464	7853	6669	4223	e2932	3341	2598	8191	17420	17244	15524
29	10475	9434	7804	6601	---	e2892	3321	2818	8385	17553	17188	15460
30	10485	9387	7738	6533	---	e2877	3321	3086	8554	17533	17134	15419
31	10498	---	7710	6479	---	e2796	---	3426	---	17437	17047	---
AX	10629	10508	9339	7639	6410	4159	3466	3426	8554	17553	17462	16926
IN	10387	9387	7710	6479	4223	2796	2613	1881	3764	8586	17047	15419
a	9026.50	9022.04	9015.04	9009.70	8999.43	8995.11	8995.62	9018.60	9052.37	9050.99	9045.14	9045.14
b	-116	-1111	-1677	-1231	-2256	-1427	+525	+105	+5128	+8883	-390	-1628

AL YR 1994 MAX 10629 MIN 1531 b -389
TR YR 1995 MAX 17553 MIN 1881 b +4805

e Estimated.

a Elevation, in feet, at end of month.

b Change in contents, in acre-feet.

10287285 AGNEW LAKE NEAR JUNE LAKE, CA

LOCATION.--Lat 37°45'30", long 119°07'52", unsurveyed, T.2 S., R.26 E., Mono County, Hydrologic Unit 18090101, Inyo National Forest, in boat house at left abutment of dam on Rush Creek and 3.3 mi southwest of town of June Lake.

DRAINAGE AREA.--23.3 mi².

PERIOD OF RECORD.--October 1990 to current year. Unpublished records prior to October 1990 available in files of Southern California Edison Co.

GAGE.--Water-stage recorder. Datum of gage is sea level (levels by Southern California Edison Co.).

REMARKS.--Reservoir is formed on natural lake by concrete dam completed in 1916. Usable capacity, 810 acre-ft between elevations 8,470.00 ft, invert of outlet, and 8,495.88 ft, crest of spillway. Figures given represent usable contents. Water is used for power development downstream.

COOPERATION.--Records collected by Southern California Edison 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, 871 acre-ft, Aug. 30, 1995, elevation, 8,497.40 ft; minimum, 22 acre-ft, Feb. 28, 1991, elevation, 8,470.97 ft.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 871 acre-ft, Aug. 30, elevation, 8,497.40 ft; minimum, 29 acre-ft, Apr. 22, 23, elevation, 8,471.27 ft.

Capacity table (elevation, in feet, and contents, in acre-feet)
(Based on survey by Southern California Edison Co., dated Aug. 25, 1981)

8,470	0	8,485	415
8,475	122	8,490	587
8,480	260	8,498	896

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	788	102	53	30	30	e30	e77	80	485	839	852	812
2	790	100	51	30	30	e30	e75	90	514	839	851	814
3	790	97	49	30	30	e30	72	96	545	839	848	812
4	796	95	47	30	30	e30	63	103	582	839	847	813
5	801	96	45	30	30	e30	54	112	619	839	849	815
6	802	97	42	30	30	e30	46	118	648	843	848	816
7	804	97	41	30	30	e30	38	124	666	843	844	815
8	805	96	38	30	30	e30	32	129	684	844	821	814
9	808	94	36	30	30	e31	30	135	666	844	830	813
10	806	93	34	30	30	e33	30	142	610	844	833	814
11	806	92	32	30	30	e33	31	154	568	844	835	815
12	e806	90	30	30	30	e33	32	163	532	844	834	815
13	e806	87	30	30	30	e33	32	171	648	844	833	816
14	e806	86	30	31	30	e33	32	177	837	843	837	815
15	e805	83	30	31	30	e33	32	184	838	843	833	814
16	e805	81	30	31	30	e35	31	190	838	843	833	812
17	e805	80	30	31	30	e41	30	198	839	844	839	812
18	775	78	30	31	30	e45	30	208	839	844	843	814
19	698	77	30	31	30	e50	30	221	840	847	847	814
20	623	74	30	31	30	e53	30	241	840	852	851	815
21	547	72	30	31	30	e56	30	260	840	855	855	815
22	474	70	30	31	30	e58	29	281	840	856	859	815
23	399	67	30	31	30	e61	29	299	840	853	855	813
24	328	65	30	31	30	e62	32	315	839	851	855	813
25	301	65	30	31	30	e65	33	329	840	850	851	813
26	286	65	30	31	30	e66	34	340	840	849	851	813
27	260	62	30	31	e30	e69	37	353	839	849	851	813
28	228	60	30	31	e30	e71	43	371	839	855	851	812
29	191	57	30	31	---	e73	53	391	839	867	859	814
30	155	55	30	30	---	e75	64	414	839	863	871	815
31	118	---	30	30	---	e80	---	445	---	856	859	---
MAX	808	102	53	31	30	80	77	445	840	867	871	816
MIN	118	55	30	30	30	30	29	80	485	839	821	812
a	8474.84	8472.35	8471.31	8471.28			8472.73	8485.91	8496.59	8497.02	8497.10	8495.99
b	-669	-63	-25	0	0	+50	-16	+381	+394	+17	+3	-44

CAL YR 1994 MAX 808 MIN 29 b 0
WTR YR 1995 MAX 871 MIN 29 b +28

e Estimated.

a Elevation, in feet, at end of month.

b Change in contents, in acre-feet.

10287289 RUSH CREEK FLUME BELOW AGNEW LAKE, NEAR JUNE LAKE, CA

LOCATION.--Lat 37°45'33", long 119°07'47", in NE 1/4 SW 1/4 sec.20, T.2 S., R.26 E., Mono County, Hydrologic Unit 18090101, Inyo National Forest, on left bank 600 ft downstream from Agnew Lake Dam, and 3.4 mi southwest of town of June Lake.

DRAINAGE AREA.--23.3 mi².

PERIOD OF RECORD.--October 1990 to current year. If records for Rush Creek Powerplant tailrace (station 10287300) are combined with this record, a record equivalent to that published since October 1951 as Rush Creek below Agnew Lake (station 10287290) can be obtained. Monthly and yearly mean discharges prior to October 1969, published in WSP 2127.

GAGE.--Water-stage recorder and Parshall flume. A 4-ft Cipolletti weir is set in the Parshall flume at times. Elevation of gage is 8,440 ft above sea level, from topographic map.

REMARKS.--Flow regulated for power development by Waugh, Gem, and Agnew Lakes (stations 10287260, 10287280, and 10287285). Most of the water is diverted at either Gem or Agnew Lakes to Rush Creek Powerplant tailrace via Rush Creek Powerplant.

COOPERATION.--Records collected by Southern California Edison 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, 441 ft³/s, July 30, 1995, gage height, 4.90 ft; no flow for many days in most years.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 441 ft³/s, July 30, gage height, 4.90 ft; no flow for 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	.01	.85	1.8	.84	.86	e.12	e.12	e.54	.43	165	237	4.3
2	.01	1.9	1.8	.81	.84	e.12	e.12	e.20	.28	168	221	2.2
3	.01	1.9	1.8	.77	.78	e.12	e1.8	e.13	.26	171	215	4.4
4	.05	1.9	1.8	.84	.77	e.12	e5.0	.11	.32	173	206	2.6
5	.14	2.1	1.8	.61	.72	e.12	e5.0	.08	.19	180	221	2.1
6	.08	2.1	1.7	.92	.69	e.19	e4.8	.48	.20	187	230	2.6
7	.06	1.9	1.7	1.0	.62	e.17	e4.7	.06	.18	185	205	2.1
8	.06	1.9	1.7	.96	.62	e.17	e4.6	.06	.16	190	137	1.7
9	.12	1.9	1.7	1.0	.55	e.15	e4.5	.09	e.20	201	39	2.9
10	.36	2.0	1.7	1.1	.55	e.13	e4.2	.12	e.20	202	66	e1.1
11	.81	1.9	1.7	1.0	.51	e.12	e3.9	.16	e.20	199	79	e1.0
12	.39	1.9	1.7	1.1	.47	e.12	e3.8	.86	e.20	197	74	e1.0
13	.02	1.9	1.7	1.1	.43	e.12	e3.6	.11	e17	198	71	e.90
14	.13	1.9	1.7	1.1	.43	e.12	e3.4	.07	52	199	83	e.90
15	.01	1.9	1.7	1.0	.40	e.12	e2.9	.06	142	202	82	e.90
16	.03	1.8	1.7	1.2	.37	e.12	e2.7	.06	138	205	72	e.90
17	.10	1.8	1.7	1.2	.37	e.15	e2.7	.09	137	206	65	e.90
18	.17	1.8	.75	1.3	.33	e.16	e2.5	.20	138	206	30	e.80
19	.02	1.8	.89	1.3	.31	e.16	e2.3	.27	139	209	13	e.80
20	.01	1.8	1.4	1.3	.26	e.12	e1.8	.29	142	216	10	e.80
21	.01	1.8	1.4	1.3	.26	e.12	e1.7	.28	141	258	21	e.80
22	.01	1.8	1.1	1.3	.22	e.12	e1.6	.22	143	285	58	e.80
23	.00	1.8	.93	1.2	.21	e.12	e1.3	.27	150	264	91	e.80
24	.00	1.8	.89	1.2	.18	e.12	e1.2	.23	151	230	86	e.80
25	.01	1.9	1.1	1.1	.14	e.12	e.98	.11	152	218	69	e.80
26	.00	1.8	.86	1.1	.12	e.12	e.85	.12	156	212	52	e.70
27	.00	1.8	.81	1.0	e.12	e.12	e.68	.19	161	207	27	e.70
28	.00	1.8	.21	1.0	e.12	e.12	e.42	.17	162	234	12	e.70
29	.00	1.8	.49	1.0	---	e.12	e.51	.21	165	310	5.1	e.70
30	.01	1.8	1.2	.96	---	e.12	e.49	.25	164	397	3.6	e.70
31	.01	---	1.0	.92	---	e.12	---	.36	---	293	3.6	---
TOTAL	2.64	55.05	42.43	32.53	12.25	4.04	74.17	6.45	2452.82	6767	2784.3	42.40
MEAN	.085	1.83	1.37	1.05	.44	.13	2.47	.21	81.8	218	89.8	1.41
MAX	.81	2.1	1.8	1.3	.86	.19	5.0	.86	165	397	237	4.4
MIN	.00	.85	.21	.61	.12	.12	.12	.06	.16	165	3.6	.70
AC-FT	5.2	109	84	65	24	8.0	147	13	4870	13420	5520	84

e Estimated.

10287289 RUSH CREEK FLUME BELOW AGNEW LAKE, NEAR JUNE LAKE, 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	1.37	1.03	.66	.52	.48	.53	.92	.30	17.9	58.1	18.5	.48
MAX	2.33	1.83	1.37	1.05	.73	.98	2.47	.96	81.8	218	89.8	1.41
(WY)	1994	1995	1995	1995	1994	1993	1995	1993	1995	1995	1995	1995
MIN	.085	.39	.23	.27	.19	.13	.040	.045	.049	.031	.005	.015
(WY)	1995	1994	1991	1991	1991	1995	1994	1994	1992	1994	1994	1994

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR				FOR 1995 WATER YEAR				WATER YEARS 1991 - 1995			
ANNUAL TOTAL	153.81				12276.08							
ANNUAL MEAN	.42				33.6				8.50			
HIGHEST ANNUAL MEAN									33.6			
LOWEST ANNUAL MEAN									.41			
HIGHEST DAILY MEAN	2.5 Feb 18				397 Jul 30				397 Jul 30 1995			
LOWEST DAILY MEAN	.00 Apr 10				.00 Oct 23				.00 Oct 27 1990			
ANNUAL SEVEN-DAY MINIMUM	.00 Aug 16				.00 Oct 23				.00 Mar 12 1991			
INSTANTANEOUS PEAK FLOW					441 Jul 30				441 Jul 30 1995			
INSTANTANEOUS PEAK STAGE					4.90 Jul 30				4.90 Jul 30 1995			
ANNUAL RUNOFF (AC-FT)	305				24350				6160			
10 PERCENT EXCEEDS	1.7				169				2.6			
50 PERCENT EXCEEDS	.06				1.0				.37			
90 PERCENT EXCEEDS	.01				.12				.02			

10287300 RUSH CREEK POWERPLANT TAILRACE NEAR JUNE LAKE, CA

LOCATION.--Lat 37°45'59", long 119°07'17", in NE 1/4 NE 1/4 sec.20, T.2 S., R.26 E., Mono County, Hydrologic Unit 18090101, on left bank 200 ft downstream from Rush Creek Powerplant, 0.1 mi upstream from Reversed Creek, and 2.8 mi southwest of town of June Lake.

PERIOD OF RECORD.--October 1990 to current year. Unpublished records prior to October 1990 available in files of Southern California Edison Co.

GAGE.--Water-stage recorder. Elevation of gage is 7,230 ft above sea level, from topographic map.

REMARKS.--Flow is water diverted at either Gem or Agnew Lakes (stations 10287280 and 10287285) to Rush Creek Powerplant.

COOPERATION.--Records collected by Southern California Edison 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, 106 ft³/s, several days in 1995; minimum daily, 0.10 ft³/s, Apr. 4-24, 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	23	24	33	36	48	50	50	50	e102	e104	e106	100
2	23	31	35	36	49	50	50	50	e102	e104	e106	100
3	23	31	36	36	50	51	22	50	e102	e104	e106	100
4	23	31	36	38	50	51	e.10	50	e102	e105	e106	100
5	23	31	36	38	50	51	e.10	50	e102	e105	e106	100
6	23	31	36	38	50	51	e.10	72	e102	e105	e106	100
7	23	31	36	38	50	51	e.10	93	e102	e105	e106	100
8	23	29	36	37	50	51	e.10	93	e102	e105	e106	100
9	23	31	36	38	50	52	e.10	95	e102	e105	e105	100
10	22	31	36	38	50	16	e.10	95	e102	e105	e105	100
11	22	31	36	38	50	4.6	e.10	93	e102	e104	e105	100
12	22	31	36	38	50	1.2	e.10	95	e103	e104	e105	100
13	22	31	35	38	50	28	e.10	96	e103	e104	e104	100
14	22	31	36	38	50	50	e.10	96	e103	e104	e104	100
15	22	31	37	38	50	50	e.10	92	e103	e104	e103	100
16	22	31	37	38	50	50	e.10	98	e103	e104	e103	100
17	22	31	37	39	50	50	e.10	98	e103	e104	e102	100
18	27	31	37	39	50	50	e.10	97	e103	e104	e100	100
19	36	30	37	39	50	50	e.10	97	e103	e104	e100	100
20	36	31	36	39	50	50	e.10	97	e103	e105	e100	100
21	36	31	34	38	50	50	e.10	96	e103	e105	e100	100
22	36	31	36	38	50	50	e.10	98	e103	e106	e100	100
23	36	31	36	38	50	50	e.10	98	e103	e106	e100	100
24	36	31	36	38	50	50	e.10	98	e103	e106	e100	100
25	33	31	36	41	50	50	50	98	e103	e106	e100	100
26	26	31	36	42	50	50	50	98	e103	e104	100	100
27	15	31	36	42	50	50	50	98	e103	e104	99	100
28	19	31	36	42	50	50	50	98	e103	e106	99	99
29	21	31	36	42	---	50	50	98	e103	e106	99	99
30	21	31	36	42	---	50	50	99	e104	e106	100	100
31	21	---	36	45	---	50	---	e101	---	e106	100	---
TOTAL	782	920	1114	1205	1397	1407.8	424.10	2737	3080	3249	3181	2998
MEAN	25.2	30.7	35.9	38.9	49.9	45.4	14.1	88.3	103	105	103	99.9
MAX	36	31	37	45	50	52	50	101	104	106	106	100
MIN	15	24	33	36	48	1.2	.10	50	102	104	99	99
C-FT	1550	1820	2210	2390	2770	2790	841	5430	6110	6440	6310	5950

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1991 - 1995, BY WATER YEAR (WY)

	1991	1992	1993	1994	1995	1991	1992	1993	1994	1995	1991	1992	1993	1994	1995
MEAN	39.6	32.7	33.5	33.0	35.4	38.3	30.9	59.1	62.7	59.6	55.0	52.2			
MAX	69.2	38.3	38.1	38.9	49.9	50.1	60.9	99.1	103	105	103	99.9			
WY)	1994	1994	1994	1995	1995	1993	1992	1993	1995	1995	1995	1995			
MIN	25.2	23.5	23.9	18.1	16.8	19.9	6.87	34.4	34.0	26.6	21.5	21.8			
WY)	1995	1991	1991	1991	1991	1991	1991	1994	1994	1992	1994	1994			

SUMMARY STATISTICS FOR 1994 CALENDAR YEAR FOR 1995 WATER YEAR WATER YEARS 1991 - 1995

	1994	1995	1991-1995
ANNUAL TOTAL	11529	22494.90	
ANNUAL MEAN	31.6	61.6	44.4
HIGHEST ANNUAL MEAN			61.6 1995
LOWEST ANNUAL MEAN			27.4 1991
HIGHEST DAILY MEAN	69 Apr 14	106 Jul 22	106 Jul 22 1995
LOWEST DAILY MEAN	15 Oct 27	.10 Apr 4	.10 Apr 4 1995
ANNUAL SEVEN-DAY MINIMUM	21 Jul 22	.10 Apr 4	.10 Apr 4 1995
ANNUAL RUNOFF (AC-FT)	22870	44620	32160
0 PERCENT EXCEEDS	38	104	100
0 PERCENT EXCEEDS	34	50	36
0 PERCENT EXCEEDS	21	22	22

e Estimated.

10287650 SADDLEBAG LAKE NEAR LEE VINING, CA

LOCATION.--Lat 37°57'56", long 119°16'18", unsurveyed, T.1 N., R.24 E., Mono County, Hydrologic Unit 18090101, Inyo National Forest, near left abutment of dam on Lee Vining Creek and 8.2 mi west of Lee Vining.

DRAINAGE AREA.--16.3 mi².

PERIOD OF RECORD.--October 1990 to current year. Unpublished records prior to October 1990 available in files of Southern California Edison Co.

GAGE.--Water-stage recorder. Datum of gage is sea level (levels by Southern California Edison Co.).

REMARKS.--Reservoir is formed on natural lake by rock-fill dam completed in 1921. Usable capacity, 9,789 acre-ft between elevations 10,048.80 ft, invert of outlet, and 10,090.40 ft, crest of spillway. At times, a cofferdam 600 ft upstream affects the storage below about 800 acre-ft, due to the constriction of flow past the cofferdam. Figures given represent usable contents. Water is used for power development downstream.

COOPERATION.--Records collected by Southern California Edison Co., under general supervision of the U.S. Geological Survey, in connection with a Federal Energy Regulatory Commission project. Contents not rounded to U.S. Geological Survey standards.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 9,454 acre-ft, Aug. 24, 25, 1995, elevation, 10,089.26 ft; minimum, 558 acre-ft, Apr. 5, 23, 24, 27, 1995, elevation, 10,051.84 ft.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 9,454 acre-ft, Aug. 24, 25, elevation, 10,089.26 ft; minimum, 558 acre-ft, Apr. 5, 23, 24, 27, elevation, 10,051.84 ft.

Capacity table (elevation, in feet, and contents, in acre-feet)
(Based on survey by Southern California Edison Co., dated Feb. 8, 1985)

10,050	217	10,070	4,392
10,055	1,163	10,080	6,890
10,060	2,172	10,091	9,970

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	3937	3820	3898	3192	2754	1607	733	564	1281	4272	8308	9358
2	3927	3820	3872	3166	2721	1565	671	560	1352	4406	8400	9375
3	3923	3824	3852	3146	2676	1549	599	660	1426	4563	8484	9398
4	3948	3820	3836	3139	2633	1497	560	663	1537	4721	8571	9428
5	3937	3843	3813	3131	2588	1467	558	675	1632	4872	8670	9439
6	3934	3854	3797	3124	2543	1424	560	680	1716	5077	8769	9436
7	3930	3856	3772	e3131	2498	1378	560	682	1773	5278	8832	9433
8	3923	3856	3745	e3137	2460	1324	564	686	1808	5518	8888	9422
9	3918	3877	3724	e3144	2420	1364	560	694	1844	5780	8954	9413
10	3900	3879	3692	e3148	2380	1424	562	697	1904	5944	9017	9398
11	3902	3877	3665	e3153	2334	1400	560	714	2000	6064	9048	9390
12	3898	3877	3656	e3159	2294	1358	560	730	2110	6154	9097	9372
13	3895	3872	3649	e3157	2266	1319	562	739	2235	6241	9134	9364
14	3884	3861	3631	e3133	2237	1285	562	745	2355	6346	9166	9352
15	3888	3882	3604	e3111	2199	1246	562	754	2445	6467	9213	9334
16	3868	3886	3567	e3086	2155	1206	562	760	2505	6597	9242	9317
17	3861	3911	3545	e3064	2112	1161	564	766	2558	6741	9291	9305
18	3856	3920	3520	e3040	2075	1147	562	775	2620	6869	9311	9288
19	3852	3909	3497	e3016	2031	1109	562	785	2682	6985	9329	9271
20	3850	3907	3468	2990	1994	1109	560	806	2745	7102	9361	9259
21	3843	3907	3448	2968	1957	1093	564	834	2812	7224	9387	9242
22	3840	3904	3421	2944	1920	1081	562	869	2899	7326	9422	9227
23	3838	3900	3397	2925	1885	1074	558	902	2999	7411	9436	9210
24	3834	3902	3388	2916	1842	1041	558	932	3135	7503	9454	9198
25	3834	3962	3361	2907	1792	1008	564	950	3288	7590	9454	9172
26	3831	3976	3334	2894	1741	967	560	961	3448	7668	9445	9155
27	3824	3971	3308	2875	1692	930	558	988	3613	7769	9428	9137
28	3820	3967	3292	2851	1656	892	562	1023	3795	7889	9407	9114
29	3820	3953	3272	2827	---	856	562	1066	3983	8031	9378	9094
30	3815	3923	3239	2801	---	811	562	1122	4134	8139	9361	9068
31	3808	---	3217	2775	---	769	---	1189	---	8225	9358	---
MAX	3948	3976	3898	3192	2754	1607	733	1189	4134	8225	9454	9439
MIN	3808	3820	3217	2775	1656	769	558	560	1281	4272	8308	9068
a	10067.49	10067.99	10064.86	10062.84	10057.48	10052.96	10051.86	10055.13	10068.90	10084.84	10088.93	10087.93
b	-133	+115	-706	-442	-1119	-887	-207	+627	+2945	+4091	+1133	-290

CAL YR 1994 MAX 5001 MIN 834 b -1821
WTR YR 1995 MAX 9454 MIN 558 b +5127

e Estimated.

a Elevation, in feet, at end of month.

b Change in contents, in acre-feet.

10287700 TIOGA LAKE NEAR LEE VINING, CA

LOCATION.--Lat 37°55'41", long 119°15'01", in SE 1/4 SE 1/4 sec.19, T.1 N., R.25 E., Mono County, Hydrologic Unit 18090101, Inyo National Forest, at left abutment of dam on Glacier Creek and 7.4 mi west of Lee Vining.

DRAINAGE AREA.--3.67 mi².

PERIOD OF RECORD.--October 1990 to current year. Unpublished records prior to October 1990 available in files of Southern California Edison Co.

GAGE.--Water-stage recorder. Datum of gage is sea level (levels by Southern California Edison Co.).

REMARKS.--Reservoir is formed on natural lake by rock-fill dam completed in 1928. Usable capacity, 1,254 acre-ft between elevations 9,626.72 ft, invert of outlet, and 9,650.28 ft, crest of spillway. Figures given represent usable contents. Water is used for power development downstream.

COOPERATION.--Records collected by Southern California Edison Co., under general supervision of the U.S. Geological Survey, in connection with a Federal Energy Regulatory Commission project. Contents not rounded to U.S. Geological Survey standards.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 1,278 acre-ft, June 13, 1991, elevation, 9,650.60 ft; minimum, 88 acre-ft, several days, elevation, 9,628.95 ft.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 1,265 acre-ft, July 30, elevation, 9,650.42 ft; minimum, 105 acre-ft, Dec. 21, 23, 27, elevation, 9,629.35 ft.

Capacity table (elevation, in feet, and contents, in acre-feet)
(Based on survey by Southern California Edison Co., dated Aug. 19, 1981)

9,626.72	0	9,640	609
9,630	131	9,646	962
9,635	356	9,652	1,383

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	987	598	113	106	109	109	109	118	241	869	1262	1196
2	972	577	111	106	109	109	109	116	251	890	1257	1206
3	956	556	111	106	109	112	109	114	264	923	1251	1219
4	949	534	110	109	108	111	108	114	303	951	1246	1230
5	933	520	108	111	108	112	109	115	333	990	1242	1238
6	915	498	108	112	108	111	110	114	323	1044	1235	1246
7	897	477	108	113	109	111	111	113	293	1094	1226	1253
8	879	454	107	115	109	111	111	114	258	1159	1229	1257
9	862	435	107	114	109	118	110	115	232	1236	1226	1261
10	844	419	107	115	108	125	109	117	237	1242	1223	1262
11	827	398	107	115	109	121	109	117	280	1216	1219	1262
12	810	379	110	114	108	117	109	118	320	1175	1210	1261
13	794	359	110	113	110	114	111	118	358	1133	1202	1260
14	777	339	109	e112	111	114	112	116	380	1130	1198	1259
15	761	324	108	e113	111	112	112	116	372	1176	1198	1259
16	751	304	107	e112	110	111	112	115	340	1228	1200	1257
17	746	295	107	e112	110	110	111	116	308	1246	1199	1257
18	742	278	106	e111	109	113	111	119	297	1229	1198	1257
19	738	263	106	e111	108	111	111	124	291	1199	1194	1257
20	734	247	105	e111	108	116	112	130	284	1166	1192	1257
21	730	232	105	111	108	117	111	136	283	1181	1192	1257
22	726	218	105	111	108	117	110	141	315	1193	1200	1257
23	723	203	105	111	108	117	110	142	379	1171	1205	1257
24	719	189	106	113	108	115	109	146	463	1148	1208	1257
25	715	185	106	113	108	114	110	140	563	1124	1209	1256
26	712	179	106	113	108	112	111	137	628	1130	1207	1254
27	706	168	105	113	108	112	113	140	693	1171	1203	1254
28	689	155	107	112	108	111	114	155	758	1209	1196	1253
29	666	134	106	111	---	110	117	168	829	1254	1188	1252
30	642	119	106	111	---	110	116	181	857	1265	1185	1250
31	617	---	106	109	---	109	---	206	---	1263	1188	---
MAX	987	598	113	115	111	125	117	206	857	1265	1262	1262
MIN	617	119	105	106	108	109	108	113	232	869	1185	1196
a	9640.14	9629.70	9629.38	9629.46	9629.44	9629.46	9629.63	9631.74	9644.32	9650.40	9649.36	9650.22
b	-385	-498	-13	+3	-1	+1	+7	+90	+651	+406	-75	+62

CAL YR 1994 MAX 1265 MIN 88 b +4
WTR YR 1995 MAX 1265 MIN 105 b +248

e Estimated.

a Elevation, in feet, at end of month.

b Change in contents, in acre-feet.

10287760 ELLERY LAKE NEAR LEE VINING, CA

LOCATION.--Lat 37°56'08", long 119°13'50", in SW 1/4 NW 1/4 sec.21, T.1 N., R.25 E., Mono County, Hydrologic Unit 18090101, Inyo National Forest, in valve house at base of Rhinedollar Dam on Lee Vining Creek and 6.3 mi west of Lee Vining.

DRAINAGE AREA.--16.7 mi².

PERIOD OF RECORD.--October 1990 to current year. Unpublished records prior to October 1990 available in files of Southern California Edison Co.

GAGE.--Water-stage recorder. Datum of gage is sea level (levels by Southern California Edison Co.).

REMARKS.--Reservoir is formed on natural lake by rock-fill dam completed in 1927. Usable capacity, 493 acre-ft between elevations 9,478.53 ft, invert of outlet, and 9,492.53 ft, crest of spillway. Radial gates are occasionally closed, which increases elevation to 9,496.53 ft and capacity to 749 acre-ft. Lake receives water from Saddlebag and Tioga Lakes (stations 10287650 and 10287700) and releases it via Poole Powerplant Conduit (station 10287762) to Poole Powerplant. Figures given represent usable contents.

COOPERATION.--Records collected by Southern California Edison 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, 637 acre-ft, May 15, 1992, elevation, 9,494.81 ft; minimum, 256 acre-ft, Oct. 11, 1993, elevation, 9,488.35 ft.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 620 acre-ft, July 8, elevation, 9,494.54 ft; minimum, 337 acre-ft, Apr. 22, elevation, 9,489.85 ft.

Capacity table (elevation, in feet, and contents, in acre-feet)
(Based on survey by Southern California Edison Co., dated Aug. 18, 1981)

9,485	96	9,493	522
9,489	290	9,497	780

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	454	433	416	441	410	471	401	372	518	574	531	403
2	456	447	417	436	411	460	396	381	514	580	521	424
3	455	462	417	435	440	448	390	375	521	585	524	473
4	456	473	415	441	466	439	386	368	548	579	532	453
5	446	471	413	441	470	433	380	358	535	594	535	407
6	432	461	409	452	460	435	371	358	513	608	521	401
7	418	452	404	451	451	435	357	355	491	602	509	404
8	419	442	397	460	443	435	347	358	440	620	493	419
9	428	435	397	468	437	435	346	373	381	616	470	434
10	437	435	408	472	443	399	344	394	385	576	447	446
11	437	433	415	459	451	408	342	406	502	557	416	449
12	433	429	423	467	452	434	342	395	551	544	397	450
13	430	429	431	468	453	437	345	379	558	546	389	448
14	427	425	441	469	451	431	346	377	542	544	392	444
15	422	425	447	456	456	421	344	377	518	589	407	440
16	412	423	453	452	460	402	345	375	494	604	425	440
17	404	424	459	453	460	403	348	376	471	609	435	435
18	397	424	458	451	459	410	348	400	483	609	434	428
19	393	422	457	448	458	412	345	401	504	574	422	425
20	388	418	457	441	456	400	341	391	505	560	414	432
21	383	414	453	437	455	404	339	412	512	558	427	440
22	378	407	451	431	452	421	337	409	528	549	486	449
23	372	403	450	428	451	432	342	357	550	545	500	452
24	366	406	452	425	458	445	357	338	568	544	496	446
25	364	407	452	419	470	446	378	348	583	543	471	440
26	357	409	450	414	475	433	402	354	587	526	452	429
27	356	410	450	407	475	415	398	394	591	541	456	416
28	365	411	449	408	477	401	392	417	591	551	451	406
29	381	409	448	409	---	406	386	430	598	584	440	405
30	397	411	444	409	---	405	386	431	571	546	414	408
31	416	---	441	409	---	404	---	478	---	538	403	---
MAX	456	473	459	472	477	471	402	478	598	620	535	473
MIN	356	403	397	407	410	399	337	338	381	526	389	401
a	9491.24	9491.15	9491.66	9491.12	9492.26	9491.03	9490.72	9492.27	9493.77	9493.25	9491.01	9491.10
b	-33	-5	+30	-32	+68	-73	-18	+92	+93	-33	-135	+5

CAL YR 1994 MAX 504 MIN 326 b -7

WTR YR 1995 MAX 620 MIN 337 b -41

a Elevation, in feet, at end of month.

b Change in contents, in acre-feet.

10287770 LEE VINING CREEK BELOW RHINEDOLLAR DAM, NEAR LEE VINING, CA

LOCATION.--Lat 37°56'10", long 119°13'48", in SW 1/4 NW 1/4 sec.21, T.1 N., R.25 E., Mono County, Hydrologic Unit 18090101, Inyo National Forest, on left bank 100 ft downstream from Rhinedollar Dam Spillway and 6.3 mi west of Lee Vining.

DRAINAGE AREA.--16.7 mi².

PERIOD OF RECORD.--October 1990 to current year. Unpublished records prior to October 1990 available in files of Southern California Edison Co.

GAGE.--Water-stage recorder and Parshall flume. Elevation of gage is 9,450 ft above sea level, from topographic map.

REMARKS.--Flow regulated for power development by Saddlebag, Tioga, and Ellery Lakes (stations 10287650, 10287700, and 10287760). Most of the water is diverted at Ellery Lake to Poole Powerplant via Poole Powerplant Conduit intake (station 10287762). Estimated discharges are on days when flow released directly from conduit bypasses the gage.

COOPERATION.--Records collected by Southern California Edison 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, 310 ft³/s, July 9, 1995, gage height, 4.63 ft; maximum gage height, 5.52 ft, Mar. 22, 1993, (backwater from snow); no flow for many days each year.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 310 ft³/s, July 9, gage height, 4.63 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	.00	e10	.00	.00	.00	.00	.00	e8.0	e6.7	124	51	.00
2	.00	e10	.00	.00	.00	.00	.00	e10	e18	137	41	.00
3	.00	e10	.00	.00	.00	.00	.00	e8.0	27	149	34	.00
4	.00	e5.0	.00	.00	.00	.00	.00	.00	55	150	38	.00
5	.00	.00	.00	.00	.00	.00	.00	.00	83	147	51	.00
6	.00	.00	.00	.00	.00	.00	.00	.00	41	189	45	.00
7	.00	.00	.00	.00	.00	.00	.00	.00	10	219	25	.00
8	.00	.00	.00	.00	.00	.00	.00	.00	.22	204	7.9	.00
9	.00	.00	.00	.00	.00	.00	.00	.00	.00	271	.00	.00
10	.00	.00	.00	.00	.00	.00	.00	.00	.00	184	.00	.00
11	.00	.00	.00	.00	.00	.00	.00	.00	.25	114	.00	.00
12	.00	.00	.00	.00	.00	.00	.00	.00	53	85	.00	.00
13	.00	.00	.00	.00	.00	.00	.00	.00	94	70	.00	.00
14	e5.0	.00	.00	.00	.00	.00	.00	.00	95	75	.00	.00
15	e10	.00	.00	.00	.00	.00	.00	.00	55	92	.00	.00
16	e10	.00	.00	.00	.00	.00	.00	.00	16	200	.00	.00
17	e10	.00	.00	.00	.00	.00	.00	.00	.59	239	.00	.00
18	e10	.00	.00	.00	.00	.00	.00	.00	.00	242	.00	.00
19	e10	.00	.00	.00	.00	.00	.00	.00	4.4	215	.00	.00
20	e10	.00	.00	.00	.00	.00	.00	.00	13	102	.00	.00
21	e10	.00	.00	.00	.00	.00	.00	.00	15	96	.00	.00
22	e10	.00	.00	.00	.00	.00	.00	.00	29	86	.00	.00
23	e10	.00	.00	.00	.00	.00	.00	.00	e54	75	6.1	.00
24	e10	.00	.00	.00	.00	.00	.00	.00	e95	70	6.7	.00
25	e10	.00	.00	.00	.00	.00	.00	.00	130	71	1.0	.00
26	e10	.00	.00	.00	.00	.00	.00	.00	160	58	.00	.00
27	e10	.00	.00	.00	.00	.00	.00	.00	161	45	.00	.00
28	e10	.00	.00	.00	.00	.00	.00	.00	172	68	.00	.00
29	e10	.00	.00	.00	---	.00	.00	.00	175	105	.00	.00
30	e10	.00	.00	.00	---	.00	.00	.00	180	100	.00	.00
31	e10	---	.00	.00	---	.00	---	.89	---	58	.00	---
TOTAL	175.00	35.00	0.00	0.00	0.00	0.00	0.00	26.89	1743.16	4040	306.70	0.00
MEAN	5.65	1.17	.000	.000	.000	.000	.000	.87	58.1	130	9.89	.000
MAX	10	10	.00	.00	.00	.00	.00	10	180	271	51	.00
MIN	.00	.00	.00	.00	.00	.00	.00	.00	.00	45	.00	.00
AC-FT	347	69	.00	.00	.00	.00	.00	53	3460	8010	608	.00
a	625	952	1330	1350	1650	1960	1060	2420	6730	6990	6000	2810

e Estimated.

a Diversion, in acre-feet, to Poole Powerplant, provided by Southern California Edison Co.

10287770 LEE VINING CREEK BELOW RHINEDOLLAR DAM, NEAR LEE VINING, 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	2.76	.23	.000	.000	.079	.69	.13	1.60	17.7	28.8	2.06	.19
MAX	5.65	1.17	.000	.000	.40	2.62	.67	6.75	58.1	130	9.89	.94
(WY)	1995	1995	1991	1991	1991	1992	1993	1993	1995	1995	1995	1992
MIN	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
(WY)	1992	1991	1991	1991	1992	1991	1991	1994	1992	1991	1991	1991

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR				FOR 1995 WATER YEAR				WATER YEARS 1991 - 1995			
ANNUAL TOTAL	211.60				6326.75							
ANNUAL MEAN	.58				17.3				4.56			
HIGHEST ANNUAL MEAN									17.3			
LOWEST ANNUAL MEAN									.27			
HIGHEST DAILY MEAN	10 Oct 15				271 Jul 9				271 Jul 9 1995			
LOWEST DAILY MEAN	.00 Jan 1				.00 Oct 1				.00 Oct 1 1990			
ANNUAL SEVEN-DAY MINIMUM	.00 Jan 1				.00 Oct 1				.00 Oct 1 1990			
INSTANTANEOUS PEAK FLOW					310 Jul 9				310 Jul 9 1995			
INSTANTANEOUS PEAK STAGE					4.63 Jul 9				5.52 Mar 22 1993			
ANNUAL RUNOFF (AC-FT)	420				12550				3300			
ANNUAL DIVERSION (AC-FT) a	19360				33880							
10 PERCENT EXCEEDS	.00				70				5.0			
50 PERCENT EXCEEDS	.00				.00				.00			
90 PERCENT EXCEEDS	.00				.00				.00			

a Diversion, in acre-feet, to Poole Powerplant, provided by Southern California Edison Co.

PACIFIC SLOPE BASINS IN CALIFORNIA

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TIJUANA RIVER BASIN

11012000 COTTONWOOD CREEK ABOVE TECATE CREEK, NEAR DULZURA, CA

LOCATION.--Lat 32°34'30", long 116°45'11", in NW 1/4 SW 1/4 sec.26, T.18 S., R.2 E., San Diego County, Hydrologic Unit 18070305, on right bank 0.8 mi upstream from confluence with Tecate Creek, 5.1 mi south of Dulzura, and 11.3 mi downstream from Barrett Lake.

RAINAGE AREA.--310 mi².

PERIOD OF RECORD.--October 1936 to current year.

REVISED RECORDS.--WSP 1245: 1937-1938. WSP 1928: Drainage area.

GAUGE.--Water-stage recorder. Datum of gage is 569.40 ft above sea level (levels by International Boundary and Water Commission).

REMARKS.--Records fair except for estimated daily discharges, which are poor. Flow regulated by Morena Reservoir, capacity, 50,210 acre-ft, and Barrett Lake (station 11011000), capacity, 44,760 acre-ft. Water diverted from Barrett Lake through San Diego and Dulzura Conduits to Lower Otay Lake (station 11014550).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 11,700 ft³/s, Feb. 21, 1980, gage height, 11.15 ft, from rating curve extended above 8,700 ft³/s; no flow for part of each year.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 11,300 ft³/s, Mar. 6, gage height, 11.14 ft, from rating curve extended as explained above; 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	4.4	4.6	4.2	75	26	194	22	46	e12	e3.0	.09
2	.00	4.5	4.4	3.5	58	18	185	23	46	e11	e2.7	.10
3	.00	4.7	4.1	4.3	45	14	178	25	45	e11	e2.3	.08
4	.00	4.6	4.0	17	35	14	166	27	44	e10	e1.9	e.05
5	.00	4.3	4.3	380	30	1370	153	32	43	e10	e1.5	e.02
6	.00	3.7	4.8	174	27	5910	142	42	43	e9.5	e1.3	.00
7	.00	4.0	6.6	51	25	1820	132	53	43	e9.0	e1.1	.00
8	.00	4.7	6.9	20	23	1210	124	57	42	e8.5	e1.0	.00
9	.00	5.0	7.0	14	21	913	119	59	41	e8.0	.81	.00
10	.00	6.3	5.8	14	20	735	99	58	39	e7.5	.98	.00
11	.00	7.4	4.6	160	16	1470	44	55	38	e7.0	.90	.00
12	.00	8.5	3.9	197	10	2100	31	57	37	e6.5	.69	.00
13	.00	8.1	3.3	200	8.3	1230	25	66	35	6.2	.55	.00
14	.00	7.2	3.2	108	1730	890	23	134	34	6.2	.39	.00
15	.00	6.6	3.7	57	3130	725	21	135	33	e6.0	.33	.00
16	.00	5.8	4.2	83	767	612	37	135	35	e6.0	.30	.00
17	.00	5.4	4.8	138	455	544	49	134	34	e5.5	.34	.00
18	.00	5.9	4.5	113	305	490	43	134	32	e5.5	.26	.00
19	1.5	8.0	4.1	63	213	452	50	128	30	e5.0	.23	.00
20	2.1	8.0	3.9	38	153	419	44	73	29	e5.0	.23	.00
21	2.3	6.7	3.8	31	111	410	41	62	27	e5.0	.41	.00
22	2.5	5.7	4.0	28	97	458	37	60	26	e4.5	.70	.00
23	2.7	4.7	3.7	23	84	431	33	60	25	e4.5	.75	.00
24	2.9	4.1	5.0	24	68	494	30	60	e24	e4.0	.96	.00
25	3.1	3.8	8.0	130	56	401	28	60	e22	e4.0	1.2	.00
26	3.9	4.2	13	1450	46	339	25	59	e20	e4.0	1.6	.00
27	4.2	4.6	13	625	40	303	24	58	e18	e3.5	1.7	.00
28	4.6	6.3	8.9	280	35	279	25	55	e16	e3.5	2.0	.00
29	5.0	6.0	6.5	166	---	259	24	53	e14	e3.5	.91	.00
30	4.9	5.0	5.3	124	---	239	22	50	e12	e3.0	.18	.00
31	4.5	---	4.8	99	---	217	---	48	---	e3.0	.12	---
TOTAL	44.20	168.2	168.7	4819.0	7683.3	24792	2148	2074	973	197.9	31.34	0.34
MEAN	1.43	5.61	5.44	155	274	800	71.6	66.9	32.4	6.38	1.01	.011
MAX	5.0	8.5	13	1450	3130	5910	194	135	46	12	3.0	.10
MIN	.00	3.7	3.2	3.5	8.3	14	21	22	12	3.0	.12	.00
AC-FT	88	334	335	9560	15240	49170	4260	4110	1930	393	62	.7

e Estimated.

PACIFIC SLOPE BASINS IN CALIFORNIA

TIJUANA RIVER BASIN

11012000 COTTONWOOD CREEK ABOVE TECATE CREEK, NEAR DULZURA, 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	1.24	.81	2.61	20.1	54.6	74.9	37.0	13.3	4.84	1.51	1.18	1.19
MAX	66.0	18.8	40.5	605	1200	1443	676	296	99.5	47.5	24.4	57.4
(WY)	1994	1984	1984	1993	1980	1983	1941	1983	1980	1980	1980	1993
MIN	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
(WY)	1937	1937	1950	1951	1951	1951	1955	1947	1940	1939	1938	1937

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR				FOR 1995 WATER YEAR				WATER YEARS 1937 - 1995			
ANNUAL TOTAL	3550.91				43099.98							
ANNUAL MEAN	9.73				118				17.6			
HIGHEST ANNUAL MEAN									243			
LOWEST ANNUAL MEAN									.000			
HIGHEST DAILY MEAN	174				Feb 9				8430			
LOWEST DAILY MEAN	.00				Jun 25				.00			
ANNUAL SEVEN-DAY MINIMUM	.00				Jun 25				.00			
INSTANTANEOUS PEAK FLOW					11300				Mar 6			
INSTANTANEOUS PEAK STAGE					11.14				Mar 6			
ANNUAL RUNOFF (AC-FT)	7040				85490				12720			
10 PERCENT EXCEEDS	28				215				11			
50 PERCENT EXCEEDS	4.1				10				.00			
90 PERCENT EXCEEDS	.00				.00				.00			

11012500 CAMPO CREEK NEAR CAMPO, CA

LOCATION.--Lat 32°35'28", long 116°31'29", in NE 1/4 SE 1/4 sec.24, T.18 S., R.4 E., San Diego County, Hydrologic Unit 18070305, on left bank just upstream from bridge on State Highway 94 and 3.5 mi southwest of Campo.

DRAINAGE AREA.--85.0 mi², of which 3 mi² are in Mexico.

PERIOD OF RECORD.--October 1936 to current year.

REVISED RECORDS.--WSP 1635: 1937-38(M), 1940(M). WSP 1928: Drainage area.

GAGE.--Water-stage recorder and broad-crested weir. Datum of gage is 2,178.92 ft above sea level. Prior to Dec. 1, 1954, at datum 1 ft higher.

REMARKS.--Records poor. Peaks are attenuated by small conservation reservoir 1 mi upstream since August 1956. No regulation or diversion upstream from station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,580 ft³/s, Jan. 16, 1993, gage height, 6.86 ft, from rating curve extended above 340 ft³/s; no flow for part of some years.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 722 ft³/s, Mar. 5, gage height, 6.85 ft; minimum daily, 0.17 ft³/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	e.17	.76	e1.8	4.5	13	19	22	20	11	4.0	.95	.59
2	e.20	e.90	e1.9	4.4	12	21	23	19	11	4.1	.93	.99
3	e.24	e.88	e2.2	6.0	12	23	23	19	10	4.1	.87	.61
4	.29	e.87	e4.5	21	12	24	22	19	10	4.2	.84	.81
5	.33	e.90	e8.0	118	12	181	22	20	9.9	4.2	.83	.74
6	.32	e.89	e6.2	22	12	282	23	26	9.4	4.1	.83	.74
7	.29	e.95	e4.7	17	12	114	23	25	9.1	4.0	.83	.71
8	.25	e.96	e4.4	15	12	105	23	18	9.1	4.0	.83	.69
9	.26	e.96	e4.2	13	12	103	24	16	9.0	3.9	.78	.66
10	.25	e.98	e4.2	15	12	96	23	14	9.1	3.8	.76	.65
11	.26	e1.1	e4.1	35	11	174	23	14	8.6	3.6	.74	.64
12	.28	e1.0	e4.9	27	11	119	23	13	8.5	3.4	.73	.63
13	.34	e.96	e4.8	27	13	83	24	13	8.2	3.2	.72	.62
14	.35	e.94	e4.2	19	131	67	25	14	8.0	3.1	.72	.61
15	.37	e.97	e4.1	18	143	56	27	13	8.0	2.9	.69	.58
16	.38	e1.5	e4.1	26	60	49	36	13	8.7	2.7	.67	.61
17	.37	e1.2	e4.2	25	48	42	45	13	9.0	2.6	.67	.59
18	.36	e1.4	e4.0	18	39	38	37	13	8.2	2.5	.67	.59
19	.35	e1.7	e3.9	17	32	36	38	12	7.2	2.3	.67	.59
20	.37	e1.6	3.8	16	27	35	30	12	6.5	2.2	.68	.60
21	.38	e1.3	3.7	17	22	36	28	11	5.9	2.0	.68	.58
22	.38	e1.3	3.7	16	19	35	26	12	5.3	1.9	.61	.57
23	.39	e1.5	3.8	14	19	36	24	13	5.0	1.7	.60	.57
24	.42	e1.7	4.1	13	18	34	23	13	4.4	1.6	.59	.57
25	.43	e2.2	7.6	23	19	28	23	14	4.0	1.5	.59	.57
26	.43	e2.4	7.1	73	19	25	22	13	4.0	1.4	.57	.59
27	.42	e2.1	5.6	28	19	24	22	14	4.0	1.3	.54	.59
28	.44	e1.9	5.0	24	18	24	21	13	4.1	1.2	.53	.58
29	.47	e1.7	4.9	20	---	23	21	13	4.2	1.1	.53	.60
30	.48	e1.7	4.7	16	---	23	20	12	4.1	1.1	.51	.57
31	.60	---	4.6	14	---	22	---	11	---	.97	.52	---
TOTAL	10.87	39.22	139.0	721.9	789	1977	766	465	223.5	84.67	21.68	19.04
MEAN	.35	1.31	4.48	23.3	28.2	63.8	25.5	15.0	7.45	2.73	.70	.63
MAX	.60	2.4	8.0	118	143	282	45	26	11	4.2	.95	.99
MIN	.17	.76	1.8	4.4	11	19	20	11	4.0	.97	.51	.57
AC-FT	22	78	276	1430	1560	3920	1520	922	443	168	43	38

e Estimated.

TIJUANA RIVER BASIN

11012500 CAMPO CREEK NEAR CAMPO, 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	.83	1.48	2.62	5.77	7.93	12.0	7.51	3.57	1.84	.98	.92	.70
MAX	14.3	20.7	25.7	140	74.5	153	121	52.2	30.4	20.1	26.5	16.5
(WY)	1984	1984	1984	1993	1980	1983	1983	1983	1983	1983	1983	1983
MIN	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
(WY)	1937	1949	1949	1957	1957	1956	1957	1957	1950	1947	1946	1947

SUMMARY STATISTICS

FOR 1994 CALENDAR YEAR

FOR 1995 WATER YEAR

WATER YEARS 1937 - 1995

ANNUAL TOTAL	1789.73	5256.88	
ANNUAL MEAN	4.90	14.4	
HIGHEST ANNUAL MEAN			3.82
LOWEST ANNUAL MEAN			39.6
HIGHEST DAILY MEAN	88 Jan 25	282 Mar 6	.000 1983
LOWEST DAILY MEAN	.13 Sep 21	.17 Oct 1	.00 Oct 1 1936
ANNUAL SEVEN-DAY MINIMUM	.13 Sep 21	.26 Oct 1	.00 Oct 1 1936
INSTANTANEOUS PEAK FLOW		722 Mar 5	1580 Jan 16 1993
INSTANTANEOUS PEAK STAGE		6.85 Mar 5	6.86 Jan 16 1993
ANNUAL RUNOFF (AC-FT)	3550	10430	2770
10 PERCENT EXCEEDS	13	28	9.1
50 PERCENT EXCEEDS	2.0	4.7	.10
90 PERCENT EXCEEDS	.17	.57	.00

OTAY RIVER BASIN

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11014000 JAMUL CREEK NEAR JAMUL, CA

LOCATION.--Lat 32°38'15", long 116°53'00", in NW 1/4 NE 1/4 sec.4, T.18 S., R.1 E., San Diego County, Hydrologic Unit 18070304, on right bank 300 ft upstream from Otay Road crossing at upper end of Lower Otay Lake, 1.4 mi downstream from Dulzura Creek, and 5.5 mi south of Jamul.

DRAINAGE AREA.--70.1 mi².

PERIOD OF RECORD.--April 1940 to December 1940, April 1941 to September 1978, October 1985 to current year.

REVISED RECORDS.--WSP 1565: 1952, 1954. WSP 1715: 1944, 1946. WDR CA-93-1: Drainage area. WDR CA-94-1: Datum of gage.

GAUGE.--Water-stage recorder and broad-crested weir control with low-water venturi-type flume. Datum of gage is 511.89 ft above sea level, revised. Prior to Oct. 1, 1951, at datum 1.00 ft higher.

REMARKS.--Records good except for estimated daily discharges, which are poor. No regulation upstream from station. Water is diverted from Cottonwood Creek at Barrett Lake (station 11011000) via San Diego and Dulzura Conduit into Dulzura Creek, a tributary to Jamul Creek, and is included in discharge for this station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 5,870 ft³/s, Mar. 5, 1995, gage height, 7.59 ft, present datum, from rating curve extended above 1,200 ft³/s on basis of critical-depth computations; no flow for many days most years.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 100 ft³/s and maximum (*), from rating curve extended above 1,200 ft³/s on basis of critical-depth computations:

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Jan. 4	2345	188	3.37	Mar. 5	2300	*5,870	*7.59
Jan. 26	0215	1,020	4.11	Mar. 12	0300	1,220	4.23
Feb. 14	1430	4,070	6.31	Mar. 23	1400	180	3.24

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	13	62	106	e15	64	55	47	37
2	.00	.00	.00	.00	11	62	105	e12	64	54	46	38
3	.00	.00	.00	.00	9.0	63	104	11	65	54	47	38
4	.00	.00	.00	7.2	8.1	68	103	9.8	63	55	47	38
5	.00	.00	.00	30	7.5	1310	104	12	57	55	47	38
6	.00	.00	.00	e4.1	7.0	2150	103	23	13	56	46	38
7	.00	.00	.00	e3.4	6.5	468	102	29	8.0	55	46	38
8	.00	.00	.00	e3.1	6.1	201	101	19	6.1	54	46	38
9	.00	.00	.00	e2.6	5.7	e120	100	15	33	54	47	38
10	.00	.00	.00	e2.2	5.5	112	98	13	49	53	48	38
11	.00	.00	.00	14	33	368	95	11	50	52	49	38
12	.00	.00	.00	e6.7	38	530	59	46	50	52	49	38
13	.00	.00	.00	e7.1	40	225	e42	63	50	52	50	32
14	.00	.00	.00	e2.8	1340	165	97	55	51	52	50	6.0
15	.00	.00	.00	e2.3	729	141	97	54	51	52	49	2.7
16	.00	.00	.00	10	179	125	105	54	54	52	50	1.9
17	.00	.00	.00	9.4	93	116	101	54	53	52	48	1.4
18	.00	.00	.00	e5.0	83	109	76	54	52	49	48	1.2
19	.00	.00	.00	e3.4	70	105	e35	55	51	52	48	.99
20	.00	.00	.00	2.5	61	98	e55	20	51	51	48	.73
21	.00	.00	.00	2.3	58	109	65	11	51	51	48	.50
22	.00	.00	.00	2.1	65	109	63	8.0	51	51	48	.31
23	.00	.00	.00	2.0	62	127	62	7.5	51	51	47	.25
24	.00	.00	.00	2.4	62	126	61	42	51	50	46	.20
25	.00	.00	.00	77	60	129	63	65	51	50	46	.19
26	.00	.00	.00	308	58	119	e40	65	50	50	45	.16
27	.00	.00	.00	59	57	114	e39	65	55	49	45	.15
28	.00	.00	.00	34	57	111	61	65	55	48	44	.11
29	.00	.00	.00	26	---	109	e40	64	55	47	16	.11
30	.00	.00	.00	20	---	110	e22	64	55	47	4.2	.08
31	.00	---	.00	16	---	108	---	65	---	47	30	---
TOTAL	0.00	0.00	0.00	664.60	3224.4	7869	2304	1146.3	1460.1	1602	1375.2	503.98
MEAN	.000	.000	.000	21.4	115	254	76.8	37.0	48.7	51.7	44.4	16.8
MAX	.00	.00	.00	308	1340	2150	106	65	65	56	50	38
MIN	.00	.00	.00	.00	5.5	62	22	7.5	6.1	47	4.2	.08
AC-FT	.00	.00	.00	1320	6400	15610	4570	2270	2900	3180	2730	1000

e Estimated.

OTAY RIVER BASIN

11014000 JAMUL CREEK NEAR JAMUL, 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	5.90	7.50	8.89	17.0	16.9	29.4	17.1	13.6	14.3	11.8	10.1	8.04
MAX	40.2	45.6	62.5	415	130	254	101	49.1	49.6	51.7	44.4	37.4
(WY)	1948	1946	1946	1993	1993	1995	1958	1954	1952	1995	1995	1947
MIN	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
(WY)	1950	1951	1951	1958	1961	1959	1955	1956	1953	1950	1949	1949

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR				FOR 1995 WATER YEAR				WATER YEARS 1940 - 1995			
ANNUAL TOTAL	167.57				20149.58							
ANNUAL MEAN	.46				55.2				13.1			
HIGHEST ANNUAL MEAN									55.2			
LOWEST ANNUAL MEAN									.000			
HIGHEST DAILY MEAN	9.1 Feb 17				2150 Mar 6				2320 Jan 16 1993			
LOWEST DAILY MEAN	.00 Jun 4				.00 Oct 1				.00 Jul 17 1949			
ANNUAL SEVEN-DAY MINIMUM	.00 Jun 4				.00 Oct 1				.00 Jul 17 1949			
INSTANTANEOUS PEAK FLOW					5870 Mar 5				5870 Mar 5 1995			
INSTANTANEOUS PEAK STAGE					7.59 Mar 5				7.59 Mar 5 1995			
ANNUAL RUNOFF (AC-FT)	332				39970				9520			
10 PERCENT EXCEEDS	1.3				103				37			
50 PERCENT EXCEEDS	.00				38				.20			
90 PERCENT EXCEEDS	.00				.00				.00			

11015000 SWEETWATER RIVER NEAR DESCANSO, CA

LOCATION.--Lat 32°50'05", long 116°37'20", in NW 1/4 SE 1/4 sec.25, T.15 S., R.3 E., San Diego County, Hydrologic Unit 18070304, near right bank at Los Terrenitos Road bridge, 0.7 mi downstream from unnamed tributary, and 1.3 mi south of Descanso.

RAINAGE AREA.--45.4 mi².

PERIOD OF RECORD.--October 1905 to September 1927 (monthly discharge only for some months, published in WSP 1315-B), October 1956 to current year. Prior to October 1927, records unadjusted for diversion. October 1956 to September 1977, both unadjusted records and combined records of river plus diversion (station 11015001) were published. No diversion since November 1976.

REVISED RECORD.--WSP 1315-B: 1922(M). WDR CA-73-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 3,269.24 ft above sea level. Prior to June 25, 1927, nonrecording gages at several sites and datums, upstream about 0.1 mi. Diversion gage at site 0.3 mi upstream, October 1956 to September 1984, at different datum.

REMARKS.--No estimated daily discharges. Records good. No regulation or diversion upstream from station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 11,200 ft³/s, Feb. 16, 1927, gage height, 13.2 ft, from floodmarks, site and datum then in use, on basis of slope-area measurement of peak flow; no flow many days in most years.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 100 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Jan. 11	0100	195	6.54	Mar. 11	1400	708	7.65
Jan. 26	0300	943	8.11	Mar. 23	1715	242	6.42
Feb. 14	1430	6,210	12.04	Apr. 18	1845	128	6.07
Mar. 5	2400	*8,600	*13.22				

No flow 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	.00	.10	.28	.51	15	29	65	37	27	12	2.7	.69
2	.00	.20	.30	.51	15	30	63	37	28	11	2.6	1.2
3	.03	.22	.32	.75	13	45	58	36	28	11	2.5	1.6
4	.10	.22	.34	4.2	12	70	54	36	28	11	2.5	1.3
5	.15	.20	.56	24	12	2460	53	43	27	11	2.4	1.1
6	.10	.19	.53	6.9	11	1890	51	64	26	9.9	2.3	.97
7	.07	.21	.40	3.5	11	307	48	67	25	9.3	2.2	.87
8	.04	.23	.39	3.8	11	183	47	56	25	8.3	2.1	.76
9	.02	.22	.38	2.2	10	145	46	45	24	7.3	1.9	.68
10	.02	.30	.37	10	10	144	43	37	23	6.8	2.0	.55
11	.01	.27	.39	57	10	478	42	33	22	6.2	1.9	.55
12	.02	.26	.39	34	9.9	382	40	30	22	5.5	1.8	.68
13	.05	.25	.43	28	11	204	39	35	21	5.1	1.8	.58
14	.08	.22	.41	13	1620	155	38	36	20	4.8	1.5	.44
15	.13	.22	.41	12	411	144	35	36	21	4.2	1.4	.39
16	.12	.31	.40	22	105	138	43	34	27	4.1	1.5	.38
17	.09	.26	.40	30	62	132	50	32	26	3.7	1.4	.42
18	.08	.55	.41	16	47	128	81	30	24	3.4	1.4	.42
19	.07	.33	.40	13	39	127	88	29	23	3.1	1.4	.37
20	.07	.30	.39	12	36	123	69	28	22	2.7	1.5	.37
21	.07	.29	.38	13	37	140	62	28	21	2.7	1.4	.35
22	.07	.26	.45	13	37	136	50	29	20	2.8	1.4	.36
23	.08	.24	.54	12	30	149	43	31	18	2.9	1.2	.37
24	.08	.23	.67	13	25	142	38	32	17	3.0	.94	.35
25	.08	.23	1.2	80	24	102	36	33	16	3.1	.78	.38
26	.07	.52	.77	304	29	88	35	32	16	3.1	.73	.43
27	.06	.37	.65	35	30	85	34	30	15	3.2	.68	.43
28	.07	.33	.60	18	29	80	35	29	14	3.2	.65	.45
29	.09	.28	.58	14	---	75	35	28	13	3.1	.57	.40
30	.10	.25	.53	13	---	71	36	27	12	3.0	.51	.39
31	.08	---	.53	14	---	67	---	27	---	2.7	.55	---
TOTAL	2.10	8.06	14.80	822.37	2711.9	8449	1457	1107	651	173.2	48.21	18.23
MEAN	.068	.27	.48	26.5	96.9	273	48.6	35.7	21.7	5.59	1.56	.61
MAX	.15	.55	1.2	304	1620	2460	88	67	28	12	2.7	1.6
MIN	.00	.10	.28	.51	9.9	29	34	27	12	2.7	.51	.35
C-FT	4.2	16	29	1630	5380	16760	2890	2200	1290	344	96	36

SWEETWATER RIVER BASIN

11015000 SWEETWATER RIVER NEAR DESCANSO, 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	.21	1.59	5.10	13.9	29.7	40.9	18.8	7.68	2.92	.82	.48	.34
MAX	3.53	24.0	83.5	304	336	382	138	68.5	25.5	8.68	8.45	6.16
(WY)	1984	1966	1967	1993	1980	1983	1983	1983	1983	1980	1983	1978
MIN	.000	.000	.000	.000	.000	.042	.010	.000	.000	.000	.000	.000
(WY)	1957	1957	1957	1961	1961	1961	1961	1961	1959	1957	1957	1957

SUMMARY STATISTICS

FOR 1994 CALENDAR YEAR

FOR 1995 WATER YEAR

WATER YEARS 1957 - 1995

ANNUAL TOTAL	967.04	15462.87	
ANNUAL MEAN	2.65	42.4	10.1
HIGHEST ANNUAL MEAN			71.2
LOWEST ANNUAL MEAN			.004
HIGHEST DAILY MEAN	44	Feb 8	2500
LOWEST DAILY MEAN	.00	Jul 27	.00
ANNUAL SEVEN-DAY MINIMUM	.00	Aug 2	.00
INSTANTANEOUS PEAK FLOW			8600
INSTANTANEOUS PEAK STAGE			13.22
ANNUAL RUNOFF (AC-FT)	1920	30670	7320
10 PERCENT EXCEEDS	7.0	67	14
50 PERCENT EXCEEDS	.54	6.9	.30
90 PERCENT EXCEEDS	.00	.22	.00

11022100 SAN VICENTE RESERVOIR NEAR LAKESIDE, CA

LOCATION.--Lat 32°54'45", long 116°55'25", in SW 1/4 NW 1/4 sec.31, T.14 S., R.1 E., San Diego County, Hydrologic Unit 18070304, at outlet tower near center of upstream face of San Vicente Dam on San Vicente Creek and 3.6 mi north of Lakeside.

DRAINAGE AREA.--74.2 mi².

PERIOD OF RECORD.--October 1946 to September 1961 (published with San Vicente Creek at San Vicente Dam, at Foster, station 11022000), October 1972 to current year. Monthend contents only October 1972 to September 1987.

REVISED RECORDS.--WSP 1928: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is sea level (levels by county of San Diego). October 1972 to current year, supplementary water-stage recorder used for flood warning only, at same site at datum 560 ft higher. Prior to October 1987, nonrecording gage at same site.

REMARKS.--Reservoir is formed by concrete-gravity dam, constructed in 1941-43 by city of San Diego; storage began during construction period. Capacity of reservoir at spillway level, 90,230 acre-ft, elevation, 650 ft. Dead storage below lowest outlet, 350 acre-ft, elevation, 493.0 ft. Reservoir storage includes supplemental water from the San Diego River, Santa Ysabel Creek, and Colorado River basins. No diversion upstream from reservoir. Water is released as required for municipal use.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents observed, 94,200 acre-ft, spilling, Feb. 21, 1980, elevation, 653.54 ft; minimum observed, 12,390 acre-ft, Nov. 1, 1947, elevation, 549.22 ft.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 90,930 acre-ft, spilling, Mar. 24, elevation, 650.65 ft; minimum, 72,060 acre-ft, Dec. 23, 24, elevation, 632.24 ft.

Capacity table (elevation, in feet, and contents, in acre-feet)
(Based on table provided by city of San Diego, dated Feb. 18, 1944)

610	51,870	640	79,800
620	60,610	650	90,230
630	69,920	654	94,600

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	76270	74130	72180	72290	75850	77320	90290	90800	90340	87890	82780	77440
2	76290	74060	72180	72280	75870	77300	90200	90790	90320	87690	82620	77290
3	76280	74010	72180	72340	75900	77340	90070	90780	90400	87470	82450	77130
4	76280	73880	72210	72660	75920	77390	89950	90770	90460	87250	82270	76960
5	76280	73810	72260	72940	75930	81240	89830	90770	90520	87040	82100	76790
6	76250	73770	72280	72960	75950	84080	89690	90820	90440	86830	81930	76640
7	76190	73680	72280	72990	75960	84790	89550	90810	90370	86610	81750	76480
8	76080	73580	72290	73030	75950	85250	89410	90810	90320	86400	81580	76340
9	75970	73460	72300	73040	75940	85550	89270	90690	90200	86180	81420	76280
10	75860	73390	72320	73220	75930	85810	89180	90530	90080	85970	81230	76270
11	75750	73280	72320	73450	75920	87560	89220	90440	89970	85750	81060	76220
12	75620	73170	72340	73710	75880	88300	89240	90460	89810	85540	80890	76160
13	75500	73070	72340	73810	75910	88250	89320	90540	89690	85320	80720	76110
14	75390	73000	72340	73850	76690	88190	89400	90670	89590	85110	80530	76050
15	75250	72940	72330	73900	76980	89690	89480	90710	89540	84930	80360	75960
16	75130	72890	72350	74060	77070	89880	89810	90760	89590	84740	80180	75860
17	75000	72850	72340	74200	77120	90050	90120	90820	89600	84550	80010	75770
18	74910	72830	72340	74250	77130	90200	90660	90800	89610	84400	79840	75700
19	74820	72780	72300	74280	77140	90330	90830	90710	89620	84320	79670	75670
20	74760	72710	72240	74300	77100	90390	90890	90580	89620	84240	79500	75620
21	74700	72650	72160	74330	77090	90630	90890	90460	89640	84180	79340	75580
22	74620	72580	72090	74340	77130	90700	90870	90280	89640	84180	79160	75530
23	74580	72500	72060	74370	77120	90910	90850	90190	89530	84110	78990	75490
24	74520	72420	72100	74400	77120	90900	90840	90210	89310	83990	78810	75470
25	74430	72380	72200	74820	77170	90830	90830	90240	89100	83880	78640	75400
26	74380	72320	72250	75350	77230	90780	90830	90260	88930	83770	78470	75340
27	74310	72300	72300	75520	77270	90730	90830	90280	88750	83640	78290	75250
28	74260	72250	72320	75630	77300	90670	90820	90320	88540	83470	78120	75140
29	74190	72180	72320	75700	---	90610	90820	90330	88340	83290	77950	75060
30	74160	72170	72290	75760	---	90510	90800	90350	88120	83130	77770	75000
31	74150	---	72290	75800	---	90410	---	90360	---	82960	77610	---
MAX	76290	74130	72350	75800	77300	90910	90890	90820	90520	87890	82780	77440
MIN	74150	72170	72060	72280	75850	77300	89180	90190	88120	82960	77610	75000
a	634.37	632.35	632.48	636.04	637.55	650.17	650.53	650.12	648.03	643.10	637.85	635.23
b	-2170	-1980	+120	+3510	+1500	+13110	+390	-440	-2240	-5160	-5350	-2610

CAL YR 1994 MAX 84450 MIN 72060 b -4270

WTR YR 1995 MAX 90910 MIN 72060 b -1320

a Elevation, in feet, at end of month.

b Change in contents, in acre-feet.

SAN DIEGO RIVER BASIN

11022200 LOS COCHES CREEK NEAR LAKESIDE, CA

LOCATION.--Lat 32°50'10", long 116°53'58", in Mission San Diego Grant, San Diego County, Hydrologic Unit 18070304, on upstream right bank side of bridge on Old Highway 8, 2.7 mi upstream from mouth, and 1.9 mi southeast of Lakeside.

DRAINAGE AREA.--12.2 mi².

PERIOD OF RECORD.--October 1983 to current year.

REVISED RECORDS.--WDR CA-86-1: Drainage area.

GAGE.--Water-stage recorder. Elevation of gage is 560 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, 1,090 ft³/s, Mar. 5, 1995, gage height, 9.74 ft; minimum daily, 0.07 ft³/s, July 12, 13, 1984.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 75 ft³/s (revised) and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Jan. 4	2115	300	6.47	Mar. 5	2115	*1,090	*9.74
Jan. 10	2030	115	4.72	Mar. 11	1030	194	5.64
Jan. 25	2130	237	6.02	Mar. 23	1145	144	5.09
Feb. 14	1100	705	8.47	Apr. 18	1245	111	4.66

Minimum daily, 0.09 ft³/s, Oct. 8-11.

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	.12	.20	.41	.59	3.2	3.0	13	8.3	2.6	2.7	.69	.47
2	.12	.23	.44	.56	3.3	3.4	e10	8.5	2.7	3.1	.67	.45
3	.14	.19	.41	7.5	2.1	5.3	e9.0	8.4	2.7	e2.7	.63	.43
4	.15	.16	.46	50	1.9	9.7	e7.6	8.3	3.0	e2.5	.63	.42
5	.15	.17	.81	22	1.9	248	e7.2	8.3	3.4	e2.3	.64	.42
6	.15	.18	.54	1.8	1.9	93	e6.9	19	2.5	e2.2	.61	.42
7	.12	.18	.49	2.0	2.0	38	e6.7	9.0	2.9	e1.9	.60	.40
8	.09	.21	.46	9.7	2.1	24	e6.3	7.0	4.5	e1.5	.59	.41
9	.09	.20	.46	1.1	2.1	18	e6.1	5.9	3.3	e1.4	.58	.41
10	.09	.91	.46	22	2.0	15	e6.0	5.4	3.2	e1.4	.57	.43
11	.09	.37	.48	26	2.0	92	e5.8	5.4	2.9	e1.3	.56	.42
12	.10	.30	.50	25	2.0	52	5.6	5.4	2.6	e1.2	.51	.40
13	.11	.29	.59	3.8	5.2	29	5.6	7.0	3.2	.98	.51	.44
14	.12	.30	.56	2.1	163	22	5.6	6.4	3.9	1.0	.51	.49
15	.13	.29	.56	2.2	42	20	5.5	5.0	3.7	1.1	.50	.47
16	.13	.39	.56	19	20	18	26	5.4	11	.93	.52	.45
17	.12	.33	.56	6.4	13	15	11	5.0	8.7	.87	.52	.44
18	.11	1.1	.56	1.9	8.9	14	29	4.6	3.8	.82	.51	.48
19	.14	.38	.56	1.9	7.0	11	23	4.6	3.7	.82	.52	.48
20	.15	.34	.58	2.2	5.8	10	13	4.2	3.3	.75	.53	.49
21	.16	.36	.56	3.4	5.1	34	11	4.2	3.3	.74	.52	.47
22	.17	.35	1.0	2.0	4.8	20	10	3.9	3.4	.83	.51	.45
23	.18	.35	.70	1.9	4.2	42	9.8	3.6	3.5	.80	.49	.44
24	.18	.33	1.3	3.8	3.9	e18	9.0	4.1	3.3	1.1	.48	.44
25	.18	.37	8.6	55	3.7	e16	9.0	5.3	3.3	1.2	.47	.43
26	.18	1.3	.85	24	3.6	14	12	4.2	3.3	.86	.48	.50
27	.19	.43	.66	4.6	3.4	14	9.0	3.6	3.5	.73	.46	.45
28	.19	.41	.62	3.2	3.4	17	9.0	3.1	2.8	.73	.46	.44
29	.21	.41	.61	e3.2	---	18	9.0	3.2	3.1	.73	.45	.44
30	.21	.41	.59	e3.1	---	16	9.0	2.8	3.1	.74	.44	.43
31	.20	---	.59	e3.2	---	14	---	2.6	---	.74	.44	---
TOTAL	4.47	11.44	26.53	315.15	323.5	963.4	305.7	181.7	110.2	40.67	16.60	13.31
MEAN	.14	.38	.86	10.2	11.6	31.1	10.2	5.86	3.67	1.31	.54	.44
MAX	.21	1.3	8.6	55	163	248	29	19	11	3.1	.69	.50
MIN	.09	.16	.41	.56	1.9	3.0	5.5	2.6	2.5	.73	.44	.40
AC-FT	8.9	23	53	625	642	1910	606	360	219	81	33	26

e Estimated.

11022200 LOS COCHES CREEK NEAR LAKESIDE, 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	.50	1.30	2.02	5.67	5.26	6.57	2.49	1.32	.77	.39	.26	.28
MAX	1.37	4.58	6.09	40.2	25.7	31.1	10.2	5.86	3.67	1.31	.54	.49
(WY)	1988	1984	1985	1993	1993	1995	1995	1995	1995	1995	1995	1986
MIN	.14	.16	.32	.66	1.09	.78	.45	.25	.17	.12	.15	.12
(WY)	1995	1993	1990	1989	1989	1989	1989	1984	1984	1984	1994	1994

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR				FOR 1995 WATER YEAR				WATER YEARS 1984 - 1995			
ANNUAL TOTAL	539.87				2312.67							
ANNUAL MEAN	1.48				6.34				2.22			
HIGHEST ANNUAL MEAN									6.77			
LOWEST ANNUAL MEAN									.50			
HIGHEST DAILY MEAN	31				248				248			
LOWEST DAILY MEAN	.08				.09				.07			
ANNUAL SEVEN-DAY MINIMUM	.09				.10				.08			
INSTANTANEOUS PEAK FLOW					1090				1090			
INSTANTANEOUS PEAK STAGE					9.74				9.74			
ANNUAL RUNOFF (AC-FT)	1070				4590				1610			
10 PERCENT EXCEEDS	2.5				14				3.3			
50 PERCENT EXCEEDS	.54				1.9				.55			
90 PERCENT EXCEEDS	.12				.21				.19			

11022480 SAN DIEGO RIVER AT MAST ROAD, NEAR SANTEE, CA

LOCATION.--Lat 32°50'25", long 117°01'30", in Mission San Diego Grant, San Diego County, Hydrologic Unit 18070304, near right bank at Mast Road Bridge, 0.7 mi upstream from Old Mission Dam site, 2.8 mi west of Santee, and 14.2 mi downstream from El Capitan Lake.

DRAINAGE AREA.--368 mi².

PERIOD OF RECORD.--May 1912 to December 1915, April 1916 to current year. Monthly discharge only for some periods and yearly estimates only for 1924-25, published in WSP-1315-B. Prior to September 1981 published as "near Santee" (station 11022500).

REVISED RECORDS.--WSP 1565: 1955-56. WSP 1635: 1922, 1926(M), 1927. WSP 1928: Drainage area.

GAGE.--Water-stage recorder. Elevation of gage is 300 ft above sea level, from topographic map. Prior to Nov. 10, 1920, nonrecording gage at site 0.7 mi downstream at different datum. Nov. 10, 1920, to Jan. 19, 1982, at site 2.6 mi downstream at different datum.

REMARKS.--No estimated daily discharges. Records good. Flow regulated by Cuyamaca Reservoir, capacity, 11,740 acre-ft, El Capitan Lake (station 11020600), and San Vicente Reservoir (station 11022100). Diversions by city of San Diego for municipal supply and by Helix Irrigation District.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 45,400 ft³/s, Feb. 16, 1927, gage height, 18.1 ft, site and datum then in use, from floodmarks, on basis of slope-area measurement of peak flow; no flow for many days some years.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum discharge, 70,200 ft³/s, Jan. 27, 1916, gage height, 25.1 ft, site and datum in use prior to Nov. 10, 1920, from floodmarks, based on slope-conveyance computation of peak flow.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 6,010 ft³/s, Mar. 5, gage height, 12.81 ft, from rating curve extended above 2,030 ft³/s; minimum daily, 1.3 ft³/s, Oct. 10-12.

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	1.4	2.0	2.9	7.7	39	24	39	37	20	8.2	4.6	2.8
2	1.4	3.0	3.5	7.2	36	23	37	35	20	8.5	3.5	3.0
3	1.5	2.8	3.1	7.3	33	32	32	33	19	8.4	3.3	2.9
4	1.9	2.1	2.9	680	30	49	31	32	19	8.1	4.0	2.9
5	6.5	2.3	19	365	28	1470	31	37	18	8.2	3.5	2.8
6	2.3	2.1	5.6	67	26	1450	34	88	17	7.4	3.8	2.9
7	1.8	2.2	3.9	42	25	436	31	43	17	8.9	3.8	2.9
8	1.6	2.2	3.5	145	23	228	24	41	18	7.9	3.8	2.7
9	1.4	2.3	3.5	41	22	150	22	41	18	7.4	3.5	2.9
10	1.3	27	3.9	138	14	114	26	39	16	6.8	3.3	2.9
11	1.3	6.6	4.8	252	12	823	26	34	15	6.2	3.2	2.9
12	1.3	3.1	3.9	371	17	568	25	30	14	5.8	3.0	2.8
13	1.4	2.5	5.0	195	52	262	24	60	14	5.7	3.0	2.9
14	1.5	2.2	3.7	102	1130	165	24	33	14	5.6	2.9	3.3
15	1.6	1.7	3.1	90	394	121	25	30	13	5.6	3.0	3.1
16	1.5	9.6	3.0	157	138	96	157	34	37	5.9	3.3	3.1
17	1.5	3.4	2.8	123	81	78	42	29	29	5.9	3.1	2.9
18	1.5	16	2.7	76	57	67	176	33	17	5.3	3.0	2.9
19	1.5	5.8	2.7	60	45	61	104	23	15	4.9	3.1	3.0
20	1.5	3.0	2.8	48	40	55	55	25	14	4.7	3.1	3.1
21	1.6	2.4	2.7	69	37	175	40	28	13	4.5	3.2	3.1
22	1.7	1.9	7.7	39	34	112	52	28	13	4.5	5.3	3.0
23	1.7	1.9	9.7	36	31	251	63	28	12	4.9	3.7	2.9
24	1.7	1.8	27	59	30	165	60	28	12	4.5	3.3	2.7
25	1.8	1.9	111	388	28	93	51	32	11	4.6	2.8	2.7
26	1.8	21	16	391	27	68	47	27	11	4.5	3.1	2.7
27	1.8	6.3	13	135	26	58	43	25	11	4.4	3.3	2.7
28	1.8	4.7	13	86	25	56	41	24	11	4.2	3.3	3.1
29	1.9	4.1	15	66	---	48	40	23	10	3.8	2.8	2.7
30	1.7	3.0	12	52	---	43	39	22	9.7	3.8	2.6	2.6
31	1.8	---	8.6	44	---	35	---	21	---	4.4	2.8	---
TOTAL	55.0	150.9	322.0	4404.9	2480	7376	1441	1043	477.7	183.5	104.0	86.9
MEAN	1.77	5.03	10.4	142	88.6	238	48.0	33.6	15.9	5.92	3.35	2.90
MAX	6.5	27	111	680	1130	1470	176	88	37	8.9	5.3	3.3
MIN	1.3	1.7	2.7	7.2	12	23	22	21	9.7	3.8	2.6	2.6
AC-FT	109	299	639	8740	4920	14630	2860	2070	948	364	206	172

SAN DIEGO RIVER BASIN

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11022480 SAN DIEGO RIVER AT MAST ROAD, NEAR SANTEE, 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	2.05	5.54	21.3	32.7	93.4	83.5	49.5	18.5	4.87	3.06	2.77	1.82
MAX	20.8	78.8	728	410	1871	683	1324	379	181	156	139	38.3
(WY)	1988	1986	1922	1993	1927	1941	1941	1915	1980	1980	1980	1980
MIN	.000	.000	.000	.000	.000	.019	.000	.000	.000	.000	.000	.000
(WY)	1913	1913	1913	1951	1951	1951	1951	1913	1913	1912	1913	1913

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR	FOR 1995 WATER YEAR	WATER YEARS 1912 - 1995
ANNUAL TOTAL	4634.8	18124.9	
ANNUAL MEAN	12.7	49.7	26.2
HIGHEST ANNUAL MEAN			219
LOWEST ANNUAL MEAN			.002
HIGHEST DAILY MEAN	282 Mar 7	1470 Mar 5	27300 Feb 16 1927
LOWEST DAILY MEAN	1.2 Sep 4	1.3 Oct 10	.00 Jun 19 1912
ANNUAL SEVEN-DAY MINIMUM	1.2 Sep 4	1.4 Oct 8	.00 Jun 19 1912
INSTANTANEOUS PEAK FLOW		6010 Mar 5	45400 Feb 16 1927
INSTANTANEOUS PEAK STAGE		12.81 Mar 5	18.10 Feb 16 1927
ANNUAL RUNOFF (AC-FT)	9190	35950	18950
10 PERCENT EXCEEDS	27	94	28
50 PERCENT EXCEEDS	4.8	12	1.3
90 PERCENT EXCEEDS	1.4	2.1	.00

SAN DIEGO RIVER BASIN

11023000 SAN DIEGO RIVER AT FASHION VALLEY, AT SAN DIEGO, CA

LOCATION.--Lat 32°45'54", long 117°10'04", in Mission San Diego Grant, San Diego County, Hydrologic Unit 18070304, on left bank 2.6 mi upstream from mouth, 500 ft upstream from Fashion Valley Road crossing, 0.4 mi downstream from unnamed tributary, and 26.4 mi downstream from El Capitan Lake.

DRAINAGE AREA.--429 mi².

PERIOD OF RECORD.--October 1912 to January 1916 published as San Diego River at San Diego (monthly discharge only, published in WSP 1315-B), January 1982 to current year. Records for October 1, 1981 to January 17, 1982, published in WDR CA-82-1, are in error and should not be used.

REVISED RECORDS.--See PERIOD OF RECORD.

GAGE.--Water-stage recorder. Elevation of gage is 20 ft above sea level, from topographic map. See WSP 1315-B for history of changes for period October 1912 to January 1916.

REMARKS.--No estimated daily discharges. Records fair. Flow regulated by Cuyamaca Reservoir, capacity, 11,740 acre-ft; El Capitan Lake (station 11020600), and San Vicente Reservoir (station 11022100). Diversions by city of San Diego for municipal supply and by Helix Irrigation District.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 75,000 ft³/s, Jan. 27, 1916, gage height, 19.3 ft, site and datum then in use, estimated on basis of upstream station, San Diego River near Santee; no flow at times during some years. Maximum discharge recorded since storage began in El Capitan Lake and San Vicente Reservoir, 9,430 ft³/s, Mar. 6, 1995, gage height, 13.47 ft, from rating curve extended above 5,800 ft³/s.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 9,430 ft³/s, Mar. 6, gage height, 13.47 ft; minimum daily, 0.73 ft³/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	.82	1.1	5.0	14	61	36	51	42	23	11	4.0	2.2
2	.86	1.1	4.4	12	53	34	50	42	21	10	3.9	2.0
3	.83	1.1	4.1	36	47	38	50	39	23	9.5	3.8	2.0
4	.77	1.2	4.1	942	43	70	44	38	22	9.5	3.5	1.9
5	.78	1.1	4.1	1410	40	1450	40	44	21	9.3	3.7	1.6
6	.90	1.1	5.0	200	37	3920	41	66	20	9.4	3.6	2.1
7	.93	1.2	5.8	97	35	727	41	88	19	9.3	3.2	1.6
8	.95	1.1	6.6	333	33	292	41	55	18	9.6	3.1	1.3
9	.93	1.1	5.9	115	31	187	38	46	17	9.5	3.2	2.0
10	.86	3.0	5.2	109	30	144	33	46	18	8.9	3.0	1.9
11	.80	8.9	5.0	664	27	1660	34	43	18	8.2	2.9	1.5
12	.78	5.6	4.6	1070	22	1040	34	39	16	7.8	2.9	1.8
13	.76	3.7	4.9	583	33	347	34	65	15	7.7	2.9	1.7
14	.78	3.2	5.4	196	1420	214	34	60	14	7.0	2.8	1.6
15	.92	2.9	5.2	157	1020	162	35	41	15	7.1	2.6	1.5
16	1.2	4.2	5.1	199	274	133	182	34	43	7.1	2.9	1.4
17	1.2	5.9	5.1	209	155	114	137	34	55	6.8	3.5	1.4
18	1.1	7.5	5.0	136	110	99	207	34	35	6.5	3.3	1.3
19	1.0	12	4.7	96	84	88	216	34	24	6.0	3.1	1.6
20	1.0	9.5	4.6	77	68	80	97	32	19	5.4	2.9	1.6
21	1.1	7.2	4.3	134	61	229	64	27	17	5.6	2.5	1.6
22	1.1	5.6	4.6	83	57	220	48	29	16	5.8	2.6	1.4
23	1.1	4.7	6.1	56	50	297	49	31	14	5.5	2.7	.96
24	1.1	4.2	20	89	47	298	57	31	14	5.0	2.8	.98
25	1.1	3.9	276	530	44	157	56	30	14	4.8	2.7	1.4
26	1.1	6.4	120	970	42	114	51	32	13	4.7	2.6	1.3
27	1.1	12	33	264	39	90	48	32	12	4.6	2.6	.88
28	1.1	8.9	20	155	37	79	46	30	11	4.6	2.0	.73
29	1.1	7.6	16	114	---	74	43	27	11	4.6	2.2	1.1
30	1.2	5.9	14	89	---	66	42	25	11	4.4	1.8	1.5
31	1.2	---	14	73	---	59	---	24	---	4.1	2.2	---
TOTAL	30.47	142.9	627.8	9212	4000	12518	1943	1240	589	219.3	91.5	45.85
MEAN	.98	4.76	20.3	297	143	404	64.8	40.0	19.6	7.07	2.95	1.53
MAX	1.2	12	276	1410	1420	3920	216	88	55	11	4.0	2.2
MIN	.76	1.1	4.1	12	22	34	33	24	11	4.1	1.8	.73
AC-FT	60	283	1250	18270	7930	24830	3850	2460	1170	435	181	91

SAN DIEGO RIVER BASIN

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11023000 SAN DIEGO RIVER AT FASHION VALLEY, AT SAN DIEGO, CA--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1982 - 1995, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	6.83	30.4	50.2	118	101	179	50.0	19.9	7.74	3.18	2.65	3.38
MAX	31.2	144	143	683	458	777	242	135	21.3	8.93	9.47	20.0
(WY)	1987	1986	1985	1993	1993	1983	1983	1983	1983	1983	1983	1986
MIN	.62	.87	5.09	14.5	20.5	8.38	7.69	3.55	1.30	.25	.54	.033
(WY)	1990	1990	1990	1989	1989	1984	1989	1984	1985	1985	1985	1984

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR				FOR 1995 WATER YEAR				WATER YEARS 1982 - 1995			
ANNUAL TOTAL	7935.92				30659.82							
ANNUAL MEAN	21.7				84.0				47.6			
HIGHEST ANNUAL MEAN									125			
LOWEST ANNUAL MEAN									11.5			
HIGHEST DAILY MEAN	532				3920				4760			
LOWEST DAILY MEAN	.62				.73				.00			
ANNUAL SEVEN-DAY MINIMUM	.67				.83				.00			
INSTANTANEOUS PEAK FLOW					9430				9430			
INSTANTANEOUS PEAK STAGE					13.47				13.47			
ANNUAL RUNOFF (AC-FT)	15740				60810				34460			
10 PERCENT EXCEEDS	47				156				96			
50 PERCENT EXCEEDS	5.4				14				7.5			
90 PERCENT EXCEEDS	.79				1.1				.73			

LOS PENASQUITOS CREEK BASIN

11023340 LOS PENASQUITOS CREEK NEAR POWAY, CA

LOCATION.--Lat 32°56'35", long 117°07'15", in Los Penasquitos Grant, San Diego County, Hydrologic Unit 18070304, on left bank 1.0 mi downstream from Cypress Creek and 5.5 mi southwest of Poway.

DRAINAGE AREA.--42.1 mi².

PERIOD OF RECORD.--October 1964 to current year.

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

REMARKS.--No estimated daily discharges. Records good. Flow partly regulated by several conservation reservoirs upstream from station. Pumping from wells along stream for irrigation. Flow augmented by reclaimed water from Poway area.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 4,750 ft³/s, Feb. 21, 1980, gage height, 10.26 ft, from rating curve extended above 1,400 ft³/s; no flow at times in 1968, 1972, 1977.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 400 ft³/s and maximum (*), from rating curve extended above 2,130 ft³/s on basis of slope-area measurement of peak flow:

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Jan. 4	2045	*4,560	*10.92	Mar. 5	2030	3,720	10.15
Jan. 8	0200	488	5.10	Mar. 11	0945	2,420	8.71
Jan. 12	1330	1,050	6.57	Mar. 23	1245	621	5.46
Jan. 25	2145	1,190	6.84	Apr. 18	1300	2,130	8.33
Feb. 14	1000	872	6.17				

Minimum daily, 0.73 ft³/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	1.1	1.3	1.5	1.9	15	8.3	18	9.5	8.1	3.1	3.0	3.0
2	1.1	1.4	1.5	1.8	13	7.3	17	9.8	8.1	3.3	3.1	3.0
3	1.1	1.6	1.5	132	12	23	16	9.6	7.3	2.6	3.2	2.6
4	1.4	1.4	1.5	741	10	18	15	9.5	6.9	2.6	3.0	2.5
5	1.4	1.3	2.0	232	9.5	1150	15	9.9	6.5	2.7	2.9	2.4
6	1.3	1.4	2.7	16	8.7	725	16	32	6.5	2.8	3.6	2.7
7	1.2	1.7	1.8	46	8.5	154	14	11	5.7	2.8	2.9	3.0
8	1.1	1.6	1.5	178	11	86	14	9.4	5.4	2.8	3.0	4.4
9	.84	1.4	1.4	17	7.6	55	13	9.2	5.1	2.6	3.2	3.1
10	.84	37	1.4	78	7.3	41	13	7.9	4.7	2.8	3.2	3.1
11	.73	12	1.4	189	6.9	994	11	7.8	4.3	2.6	3.1	3.2
12	.80	2.2	1.4	379	6.5	378	10	7.2	4.2	2.4	3.6	3.0
13	.95	1.6	3.0	102	24	143	9.7	22	4.2	2.4	3.9	2.6
14	1.1	1.8	2.1	39	288	97	11	11	4.5	2.6	3.2	2.7
15	2.2	1.5	1.6	69	90	71	11	8.7	7.6	2.6	2.8	3.0
16	2.3	4.1	1.5	120	39	62	102	27	29	6.1	3.0	2.7
17	1.3	2.8	1.5	96	25	49	17	9.3	11	3.4	3.1	2.6
18	1.2	8.3	1.5	31	19	41	319	7.6	4.6	3.0	2.8	2.6
19	1.2	2.6	1.5	21	15	35	54	7.4	4.2	2.8	3.0	2.6
20	1.1	1.6	1.6	17	13	33	21	7.5	3.8	2.8	2.8	2.9
21	1.4	1.6	1.5	30	11	199	18	7.7	4.1	2.6	2.8	3.0
22	1.4	1.5	2.3	14	10	65	13	7.6	4.4	2.7	3.0	3.0
23	1.9	1.5	5.5	14	9.6	198	11	7.5	3.9	2.4	3.0	2.8
24	1.6	1.4	31	31	9.8	84	10	8.1	3.6	2.5	3.1	2.6
25	1.4	1.4	103	295	9.8	53	10	11	3.3	2.9	2.8	2.9
26	1.4	13	5.9	224	8.0	41	10	8.6	3.3	3.0	2.7	2.7
27	1.4	4.0	3.1	82	7.7	37	9.5	8.1	3.3	2.9	2.6	2.7
28	1.6	2.1	2.9	42	7.3	31	9.3	8.3	3.0	2.7	2.8	3.0
29	1.5	1.9	3.2	29	---	26	9.2	7.8	3.1	2.7	2.6	2.9
30	1.5	1.6	2.5	24	---	22	9.3	7.8	3.1	2.6	2.6	3.2
31	1.3	---	2.0	18	---	20	---	7.5	---	2.7	3.0	---
TOTAL	40.66	118.6	196.8	3309.7	702.2	4946.6	826.0	323.3	176.8	88.5	93.4	86.5
MEAN	1.31	3.95	6.35	107	25.1	160	27.5	10.4	5.89	2.85	3.01	2.88
MAX	2.3	37	103	741	288	1150	319	32	29	6.1	3.9	4.4
MIN	.73	1.3	1.4	1.8	6.5	7.3	9.2	7.2	3.0	2.4	2.6	2.4
AC-FT	81	235	390	6560	1390	9810	1640	641	351	176	185	172

LOS PENASQUITOS CREEK BASIN

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11023340 LOS PENASQUITOS CREEK NEAR POWAY, CA--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1965 - 1995, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
EAN	1.30	5.10	9.07	24.4	28.0	36.0	8.18	2.59	1.33	.91	.84	1.08
AX	4.97	28.7	51.6	233	215	213	27.5	12.5	5.89	2.85	3.01	4.10
WY)	1988	1986	1966	1993	1980	1983	1995	1983	1995	1995	1995	1986
IN	.030	.10	.23	.23	.41	.75	.26	.14	.056	.009	.020	.028
WY)	1976	1978	1974	1976	1965	1965	1977	1974	1974	1977	1975	1975

UMMARY STATISTICS	FOR 1994 CALENDAR YEAR	FOR 1995 WATER YEAR	WATER YEARS 1965 - 1995
NNUAL TOTAL	3885.74	10909.06	
NNUAL MEAN	10.6	29.9	9.82
IGHEST ANNUAL MEAN			35.9
OWEST ANNUAL MEAN			.80
IGHEST DAILY MEAN	303	Feb 8	1150
OWEST DAILY MEAN	.71	Aug 16	.73
NNUAL SEVEN-DAY MINIMUM	.88	Aug 12	.91
NSTANTANEOUS PEAK FLOW			4560
NSTANTANEOUS PEAK STAGE			10.92
NNUAL RUNOFF (AC-FT)	7710	21640	7120
0 PERCENT EXCEEDS	11	51	11
0 PERCENT EXCEEDS	1.7	3.9	1.3
0 PERCENT EXCEEDS	1.1	1.5	.23

11025500 SANTA YSABEL CREEK NEAR RAMONA, CA

LOCATION.--Lat 33°06'25", long 116°51'55", in NW 1/4 NE 1/4 sec.27, T.12 S., R.1 E., San Diego County, Hydrologic Unit 18070304, on left bank 1.6 mi downstream from Temescal Creek, 4.5 mi north of Ramona, and 5.0 mi downstream from Lake Sutherland.

DRAINAGE AREA.--112 mi².

PERIOD OF RECORD.--February 1912 to February 1923 (monthly discharge only for November and December 1919), October 1943 to current year.

REVISED RECORDS.--WSP 1928: Drainage area.

GAGE.--Water-stage recorder and concrete control. Datum of gage is 847.88 ft above sea level (levels by city of San Diego Water Department). See WSP 1315-B for history of changes prior to Feb. 3, 1923.

REMARKS.--Records fair except for estimated daily discharges, which are poor. Flow regulated by Lake Sutherland, capacity, 29,680 acre-ft, since July 1954. Some small diversions upstream from station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 28,400 ft³/s, Jan. 27, 1916, gage height, 14.0 ft, datum then in use, from rating curve extended above 1,500 ft³/s on basis of slope-conveyance study of peak flow; no flow at times in some years.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 8,000 ft³/s, Mar. 5, gage height, 12.45 ft; minimum daily, 0.02 ft³/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	e.02	.26	.84	e1.4	e13	16	e88	58	21	11	2.7	.80
2	e.02	.31	.85	e1.4	e12	15	e85	56	22	10	2.7	1.5
3	e.03	.40	.92	e2.5	e11	30	e84	55	23	9.8	2.4	1.1
4	e.03	.41	.99	81	e10	47	e83	54	22	10	1.7	.61
5	e.04	.41	1.2	151	e10	2570	e82	56	21	9.7	1.6	.37
6	e.04	.41	1.3	29	e10	1450	e82	100	21	9.6	2.1	.35
7	.04	.44	1.2	11	e10	259	e86	109	20	8.4	1.7	.24
8	.03	.49	1.1	22	e9.5	172	92	99	22	7.9	1.9	.14
9	.03	.50	1.0	17	e9.5	133	93	82	21	7.1	2.1	.22
10	.03	.61	1.0	36	9.5	113	e80	71	20	6.2	2.0	.36
11	.03	.72	1.0	139	9.4	630	e73	60	19	5.9	1.7	.44
12	.03	.72	1.1	120	9.1	400	e68	34	17	5.4	1.4	.37
13	.05	.67	1.2	58	16	e190	e59	33	17	5.2	1.2	.32
14	.06	.60	1.2	19	749	e140	e56	34	17	5.3	1.3	.27
15	.11	.58	1.2	21	198	e95	e57	31	18	5.3	1.2	.21
16	.13	.66	1.0	41	62	e89	61	30	28	5.8	1.5	.20
17	.13	.60	.99	38	42	e81	53	29	28	5.5	1.3	.36
18	.12	.83	.96	18	33	e78	96	28	23	4.6	1.2	.43
19	.13	.81	.98	14	26	e76	96	26	20	4.2	1.3	.52
20	.14	.76	.96	11	22	e74	61	26	19	4.7	1.4	.62
21	.15	.81	.90	11	20	e125	56	25	19	3.9	1.4	.64
22	.18	.71	1.0	11	20	e100	47	26	18	4.2	1.1	.56
23	.19	.67	1.4	10	19	e150	52	27	17	3.8	.96	.37
24	.20	.69	1.6	9.6	18	e117	63	28	16	3.8	.74	.26
25	.21	.72	2.1	97	25	e110	63	28	15	3.8	.92	.30
26	.27	1.1	1.6	417	18	e106	59	27	15	3.6	.93	.36
27	.28	1.1	1.3	89	16	e99	52	25	14	2.9	.91	.35
28	.28	1.0	1.3	e35	16	e95	78	23	13	3.0	.78	.53
29	.32	.94	1.3	e28	---	e92	74	22	13	2.9	.71	.99
30	.31	.85	1.2	e20	---	e90	63	20	12	2.9	.70	1.3
31	.29	---	1.4	e16	---	e89	---	20	---	2.8	.63	---
TOTAL	3.92	19.78	36.09	1574.9	1423.0	7831	2142	1342	571	179.2	44.18	15.09
MEAN	.13	.66	1.16	50.8	50.8	253	71.4	43.3	19.0	5.78	1.43	.50
MAX	.32	1.1	2.1	417	749	2570	96	109	28	11	2.7	1.5
MIN	.02	.26	.84	1.4	9.1	15	47	20	12	2.8	.63	.14
AC-FT	7.8	39	72	3120	2820	15530	4250	2660	1130	355	88	30

e Estimated.

SAN DIEGUITO RIVER BASIN

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11025500 SANTA YSABEL CREEK NEAR RAMONA, CA--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1912 - 1954, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	1.76	4.16	28.3	106	70.6	72.7	38.9	27.8	9.07	2.83	1.53	.98
MAX	16.9	17.3	330	1690	345	249	153	221	47.0	15.6	10.5	8.63
WY)	1917	1947	1922	1916	1916	1922	1922	1915	1915	1915	1916	1916
MIN	.000	.000	.000	1.70	3.54	6.37	4.75	1.10	.037	.000	.000	.000
WY)	1948	1949	1951	1948	1912	1951	1951	1947	1951	1946	1921	1921

SUMMARY STATISTICS

WATER YEARS 1912 - 1954

ANNUAL MEAN	30.7	
HIGHEST ANNUAL MEAN	206	1916
LOWEST ANNUAL MEAN	1.77	1951
HIGHEST DAILY MEAN	14100	Jan 27 1916
LOWEST DAILY MEAN	.00	Aug 16 1912
ANNUAL SEVEN-DAY MINIMUM	.00	Sep 17 1912
INSTANTANEOUS PEAK FLOW	28400	Jan 27 1916
INSTANTANEOUS PEAK STAGE	14.00	Jan 27 1916
ANNUAL RUNOFF (AC-FT)	22250	
0 PERCENT EXCEEDS	50	
0 PERCENT EXCEEDS	4.1	
0 PERCENT EXCEEDS	.00	

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	.48	2.18	5.63	16.2	43.1	46.0	20.1	8.24	3.45	1.08	.72	.42
MAX	6.30	43.5	124	220	795	425	207	110	42.2	13.8	11.9	7.07
WY)	1981	1966	1967	1993	1980	1980	1983	1983	1983	1980	1983	1980
MIN	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
WY)	1955	1955	1955	1959	1961	1961	1961	1959	1956	1955	1955	1955

SUMMARY STATISTICS

FOR 1994 CALENDAR YEAR

FOR 1995 WATER YEAR

WATER YEARS 1955 - 1995

ANNUAL TOTAL	1393.78	15182.16	
ANNUAL MEAN	3.82	41.6	12.1
HIGHEST ANNUAL MEAN			131
LOWEST ANNUAL MEAN			.000
HIGHEST DAILY MEAN	75	Feb 8	2570
LOWEST DAILY MEAN	.02	Aug 23	.02
ANNUAL SEVEN-DAY MINIMUM	.02	Sep 15	.03
INSTANTANEOUS PEAK FLOW			8000
INSTANTANEOUS PEAK STAGE			12.45
ANNUAL RUNOFF (AC-FT)	2760	30110	8790
0 PERCENT EXCEEDS	9.5	89	13
0 PERCENT EXCEEDS	1.3	9.4	.10
0 PERCENT EXCEEDS	.03	.29	.00

SAN DIEGUITO RIVER BASIN

11028500 SANTA MARIA CREEK NEAR RAMONA, CA

LOCATION.--Lat 33°03'08", long 116°56'41", in SE 1/4 SE 1/4 sec.11, T.13 S., R.1 W., San Diego County, Hydrologic Unit 18070304, on left bank 3.8 mi northwest of Ramona, and 4.6 mi upstream from mouth.

DRAINAGE AREA.--57.6 mi².

PERIOD OF RECORD.--December 1912 to September 1920, October 1946 to current year.

REVISED RECORDS.--WSP 1285: 1952. WSP 1928: Drainage area.

GAGE.--Water-stage recorder. Concrete control since October 1946. Datum of gage is 1,294.44 ft above sea level. Prior to Oct. 1, 1946, at same site, at datum 1.78 ft lower.

REMARKS.--Records fair except for discharges below 1 ft³/s and estimated daily discharges, which are poor. No regulation upstream from station. Land application of treated sewage effluent upstream from the gage beginning December 1972 contributes to low flows.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 15,200 ft³/s, Feb. 21, 1980, gage height, 14.39 ft, from rating curve extended above 130 ft³/s on basis of slope-area measurement at gage height 4.56 ft and slope-conveyance study at gage height 14.39 ft; no flow for many days in most years.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 250 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Jan. 5	0030	536	3.34	Mar. 5	2315	*5,270	*8.80
Jan. 11	0245	359	2.96	Mar. 11	1045	2,330	6.11
Jan. 26	0145	1,350	4.84	Mar. 23	1515	842	4.17
Feb. 14	Unknown	Unknown	Unknown	Apr. 18	1600	733	3.75

No flow Sept. 14-16.

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	.49	.13	11	9.3	28	16	7.9	.67	.32	.08
2	.04	.43	.42	.12	e11	9.0	32	16	9.0	.63	.07	.05
3	.11	.09	.22	.90	e10	14	30	15	9.3	.65	.06	.06
4	.15	.06	.23	20	e9.5	21	28	14	8.7	.92	.06	.09
5	.05	.05	.28	149	e9.0	1430	27	15	8.6	.90	.04	.09
6	.03	.04	.24	3.1	e9.0	1920	27	34	8.3	.65	.03	.27
7	.03	.09	.22	1.2	e8.7	352	25	29	8.0	.47	.03	.04
8	.02	.44	.51	20	e8.5	129	25	22	7.9	.34	.03	.06
9	.02	.22	.63	4.3	e8.2	85	25	19	7.5	.40	.03	.03
10	.02	.35	.46	8.9	e8.0	54	21	16	6.2	.60	.04	.09
11	.02	.12	.88	139	e8.0	1190	19	15	5.1	.50	.09	.04
12	.09	.06	.77	58	e15	671	17	15	3.2	.17	.07	.02
13	.14	.05	.14	25	e20	e161	17	16	3.1	.13	.19	.01
14	.10	.04	.09	7.6	e600	e100	17	17	2.8	.18	.30	.00
15	.05	.26	.73	9.2	e190	68	17	16	3.7	e.90	.11	.00
16	.03	.48	.44	54	e55	42	52	14	9.0	e.30	.14	.00
17	.02	.53	.12	73	e28	30	39	13	8.2	e.25	.19	.15
18	.07	.35	.08	15	19	24	264	13	5.7	e.23	.08	.42
19	.04	.10	.06	9.0	15	22	179	13	4.1	e.20	.03	.05
20	.05	.06	.47	6.7	12	19	87	12	2.7	e.17	.03	.03
21	.04	.14	.83	7.9	10	124	57	13	3.2	e.13	.03	.02
22	.05	.12	1.1	6.1	10	80	40	13	3.5	.06	.03	.02
23	.55	.13	1.0	5.4	9.7	254	29	12	2.6	.05	.02	.02
24	.10	.08	1.5	9.4	9.3	119	23	13	1.8	.04	.02	.02
25	.52	.04	1.9	211	9.4	77	20	12	2.4	.47	.02	.01
26	.68	.42	1.5	655	8.9	53	19	12	1.8	.93	.01	.02
27	.42	.63	1.2	106	8.5	42	18	11	1.4	.29	.82	.03
28	.10	.60	.58	44	8.9	38	17	10	1.3	.18	1.1	.04
29	.07	.85	.27	23	---	33	17	10	1.0	.34	.05	.05
30	.05	.43	.17	15	---	30	16	8.2	.81	.05	.02	.04
31	.05	---	.14	12	---	27	---	7.0	---	.05	.02	---
TOTAL	3.84	7.63	17.67	1698.95	1129.6	7227.3	1232	461.2	148.81	11.85	4.08	1.85
MEAN	.12	.25	.57	54.8	40.3	233	41.1	14.9	4.96	.38	.13	.062
MAX	.68	.85	1.9	655	600	1920	264	34	9.3	.93	1.1	.42
MIN	.02	.04	.06	.12	8.0	9.0	16	7.0	.81	.04	.01	.00
AC-FT	7.6	15	35	3370	2240	14340	2440	915	295	24	8.1	3.7

e Estimated.

SAN DIEGUITO RIVER BASIN

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11028500 SANTA MARIA CREEK NEAR RAMONA, 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	.054	.45	1.43	25.3	25.4	27.3	6.01	2.10	.50	.070	.10	.035
MAX	.45	10.9	26.5	545	443	288	54.4	31.0	7.66	1.28	4.03	.22
(WY)	1987	1966	1967	1916	1980	1983	1983	1915	1983	1983	1983	1983
MIN	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
(WY)	1914	1916	1920	1920	1951	1951	1950	1949	1920	1913	1913	1913

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR	FOR 1995 WATER YEAR	WATER YEARS 1913 - 1995
ANNUAL TOTAL	793.75	11944.78	
ANNUAL MEAN	2.17	32.7	7.45
HIGHEST ANNUAL MEAN			78.2
LOWEST ANNUAL MEAN			.000
HIGHEST DAILY MEAN	80 Feb 8	1920 Mar 6	4960 Jan 27 1916
LOWEST DAILY MEAN	.00 Jul 16	.00 Sep 14	.00 Dec 17 1912
ANNUAL SEVEN-DAY MINIMUM	.00 Aug 5	.02 Sep 20	.00 Dec 17 1912
INSTANTANEOUS PEAK FLOW		5270 Mar 5	15200 Feb 21 1980
INSTANTANEOUS PEAK STAGE		8.80 Mar 5	14.39 Feb 21 1980
ANNUAL RUNOFF (AC-FT)	1570	23690	5400
10 PERCENT EXCEEDS	4.6	41	3.0
50 PERCENT EXCEEDS	.22	1.0	.00
90 PERCENT EXCEEDS	.00	.04	.00

SAN LUIS REY RIVER BASIN

11042000 SAN LUIS REY RIVER AT OCEANSIDE, CA

LOCATION.--Lat 33°13'05", long 117°21'34", in SE 1/4 SW 1/4 sec.13, T.11 S., R.5 W., San Diego County, Hydrologic Unit 18070303, on right bank 1.9 mi upstream from bridge on Interstate Highway 5, 2.4 mi upstream from mouth, and 1.9 mi northeast of Oceanside.

DRAINAGE AREA.--557 mi².

PERIOD OF RECORD.--April 1912 to September 1914 (published as "near Oceanside"), January 1916, October 1929 to January 1942, October 1946 to current year. Discharge measurements only Oct. 1, 1992, to Aug. 16, 1993.

REVISED RECORDS.--WSP 2128: Drainage area.

GAGE.--Water-stage recorder. Elevation of gage is 20 ft above sea level, from topographic map. April 1912 to September 1914, nonrecording gage at site 0.4 mi downstream at different datum. January 1916, nonrecording gage 1.4 mi downstream at different datum. October 1929 to Nov. 9, 1981, at site 0.8 mi downstream at different datum.

REMARKS.--No estimated daily discharges. Records fair. Flow regulated by Lake Henshaw, capacity, 194,300 acre-ft since 1923. Several diversions for irrigation and domestic use upstream from station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 95,600 ft³/s, Jan. 27, 1916, from hydrograph based on discharge measurements; no flow for several months in some years. Since regulation by Lake Henshaw, maximum discharge, 25,700 ft³/s, Jan. 16, 1993, gage height, 21.70 ft, on basis of slope-area measurement of peak flow.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 19,500 ft³/s, Mar. 6, gage height, 19.97 ft; minimum daily, 0.07 ft³/s, Oct. 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	.34	.68	4.8	11	135	90	279	181	72	30	16	8.7
2	.37	.50	4.9	11	126	89	273	172	72	30	17	9.5
3	.44	.71	5.1	18	119	106	261	162	71	29	18	9.1
4	.39	.56	5.3	581	113	132	251	153	70	29	17	8.9
5	.24	.71	5.5	1900	107	3340	243	147	68	29	17	8.4
6	.14	.73	5.0	293	103	7990	242	148	67	29	17	7.8
7	.07	.76	4.7	172	97	2080	238	155	62	28	18	7.0
8	.19	.70	4.7	660	91	1850	240	141	58	26	17	6.9
9	.85	.70	4.6	290	91	1720	239	135	53	25	16	6.3
10	.58	1.0	4.9	272	86	1670	240	128	50	24	16	6.1
11	.60	1.4	4.9	860	82	5300	228	121	49	22	16	6.5
12	.64	1.4	4.9	875	79	2700	225	117	46	22	15	6.9
13	.58	1.4	5.6	603	86	1430	225	122	44	22	14	6.9
14	.44	1.4	5.8	308	341	1050	223	121	42	21	15	6.9
15	.51	1.5	5.8	220	1230	761	221	115	40	20	14	6.8
16	.36	1.9	5.7	195	382	601	294	110	49	20	14	7.3
17	.48	2.1	5.9	203	223	524	302	108	61	20	14	7.1
18	.27	2.4	5.9	160	169	438	381	106	55	18	14	7.4
19	.08	2.4	5.2	135	146	394	457	105	48	18	13	7.5
20	.49	2.5	4.8	121	128	363	372	104	45	18	13	7.7
21	1.1	2.4	6.5	143	114	408	342	100	42	18	13	7.6
22	.82	2.7	6.5	128	108	519	316	97	41	18	13	7.3
23	.77	3.0	7.6	114	103	678	289	96	40	19	12	7.3
24	.65	3.3	8.1	142	101	695	268	92	39	20	12	7.8
25	.66	3.6	17	231	101	498	252	90	39	19	12	7.9
26	.60	5.4	16	855	99	424	245	88	38	19	11	7.9
27	.57	5.3	14	508	97	392	229	83	37	18	10	8.4
28	.49	4.9	14	269	92	370	220	81	36	17	9.8	7.9
29	.54	4.8	13	201	---	337	205	79	34	17	9.2	7.8
30	.58	4.8	11	167	---	313	193	77	32	18	8.8	7.9
31	.73	---	11	148	---	289	---	73	---	17	8.7	---
TOTAL	15.57	65.65	228.7	10794	4749	37551	7993	3607	1500	680	430.5	227.5
MEAN	.50	2.19	7.38	348	170	1211	266	116	50.0	21.9	13.9	7.58
MAX	1.1	5.4	17	1900	1230	7990	457	181	72	30	18	9.5
MIN	.07	.50	4.6	11	79	89	193	73	32	17	8.7	6.1
AC-FT	31	130	454	21410	9420	74480	15850	7150	2980	1350	854	451

SAN LUIS REY RIVER BASIN

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11042000 SAN LUIS REY RIVER AT OCEANSIDE, 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
EAN	3.77	8.77	20.4	45.0	103	142	56.7	28.1	14.4	7.56	5.87	3.49
AX	54.6	144	196	451	1858	1211	432	346	293	207	213	85.9
WY)	1984	1984	1979	1980	1980	1995	1980	1980	1980	1980	1980	1980
IN	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
WY)	1930	1930	1930	1930	1930	1930	1930	1931	1931	1930	1930	1930

UMMARY STATISTICS	FOR 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1930 - 1995	
NNUAL TOTAL	9219.85		67841.92			
NNUAL MEAN	25.3		186		36.2	
IGHEST ANNUAL MEAN					415	
OWEST ANNUAL MEAN					.000	
IGHEST DAILY MEAN	244	Feb 8	7990	Mar 6	11300	Mar 3 1938
OWEST DAILY MEAN	.07	Oct 7	.07	Oct 7	.00	Oct 1 1929
NNUAL SEVEN-DAY MINIMUM	.26	Oct 2	.26	Oct 2	.00	Oct 1 1929
NSTANTANEOUS PEAK FLOW			19500	Mar 6	25700	Jan 16 1993
NSTANTANEOUS PEAK STAGE			19.97	Mar 6	21.70	Jan 16 1993
NNUAL RUNOFF (AC-FT)	18290		134600		26190	
0 PERCENT EXCEEDS	61		366		57	
0 PERCENT EXCEEDS	10		29		1.1	
0 PERCENT EXCEEDS	.58		.77		.00	

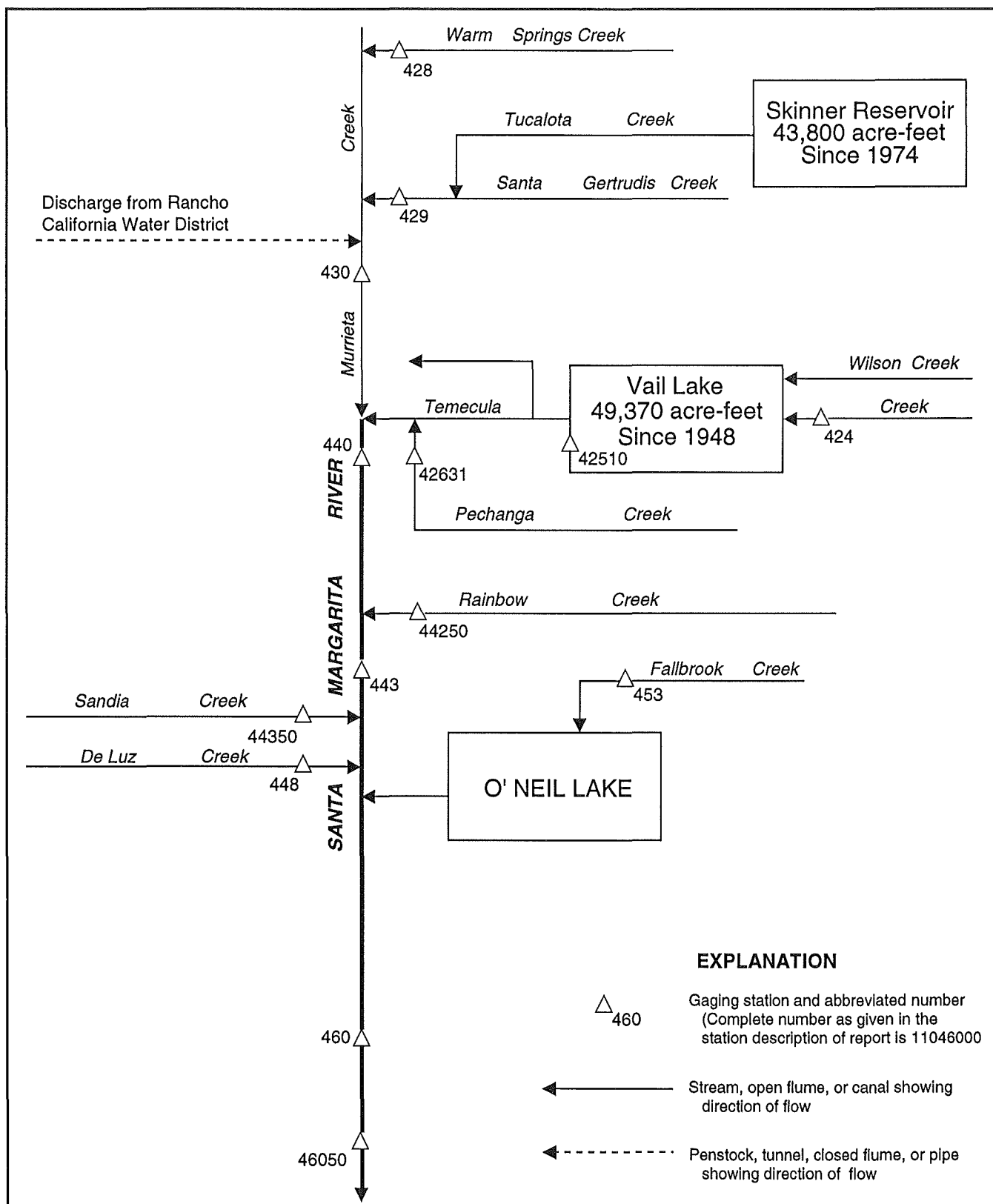


Figure 14. Diversions and storage in Santa Margarita River basin.

11042400 TEMECULA CREEK NEAR AGUANGA, CA

LOCATION.--Lat 33°27'33", long 116°55'22", in SW 1/4 SW 1/4 sec.19, T.8 S., R.1 E., Riverside County, Hydrologic Unit 18070302, on right bank 1.6 mi downstream from Long Canyon and 3.5 mi northwest of Aguanga.

DRAINAGE AREA.--131 mi².

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

REVISED RECORDS.--WDR CA-89-1: 1958(P), 1966(M), 1979(M), 1980(M), 1986(M). WSP 1928: Drainage area.

GAGE.--Water-stage recorder and crest-stage gage. Elevation of gage is 1,590 ft above sea level, from topographic map.

REMARKS.--Records good except for estimated daily discharges, which are poor. No regulation upstream from station. Pumping upstream from station for irrigation of less than 1,000 acres. See schematic diagram of Santa Margarita River basin.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 8,100 ft³/s, Jan. 16, 1993, gage height, 14.6 ft, from flood mark, from rating curve extended above 1,200 ft³/s on basis of critical depth computation; no flow for several days in some years.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 100 ft³/s and maximum (*), from rating curve extended as explained above:

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Jan. 4	2145	2,030	6.13	Mar. 5	2100	*3,290	*7.81
Jan. 10	2045	1,110	4.83	Mar. 11	1015	1,700	5.59
Jan. 26	0115	299	3.20	Mar. 23	Unknown	Unknown	Unknown
Feb. 14	1015	1,790	5.76				

Minimum daily, 2.7 ft³/s, Nov. 1, Sept. 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	3.4	2.7	5.3	4.9	e15	16	32	17	14	7.7	5.3	3.6
2	3.4	3.6	5.2	4.8	e14	16	30	17	15	7.9	4.8	4.1
3	3.6	4.3	5.0	6.5	e13	19	28	17	15	8.1	4.5	3.9
4	3.9	4.7	5.0	210	e12	23	27	17	14	9.1	4.4	3.6
5	4.2	4.7	4.9	142	e12	1150	26	18	13	8.7	4.2	3.3
6	4.1	4.8	5.1	e10	e12	e230	25	22	12	7.7	3.9	2.7
7	4.0	4.7	5.2	e9.0	12	e120	25	21	13	7.1	3.8	2.9
8	3.5	4.6	4.9	e35	12	e56	24	20	13	6.7	4.0	3.0
9	3.3	4.7	5.1	e15	11	e30	24	19	13	6.5	4.0	3.4
10	3.4	6.1	4.9	e250	11	e28	23	19	12	6.7	4.2	3.0
11	3.4	6.8	5.0	193	11	e350	22	18	12	6.5	3.7	3.0
12	3.4	5.5	5.1	e100	11	e170	21	18	11	6.3	3.8	3.0
13	3.8	5.4	5.2	e54	18	e100	21	19	10	6.4	3.7	3.0
14	3.7	5.3	5.4	32	717	e40	22	19	10	6.4	3.6	3.1
15	3.8	5.2	5.6	29	220	e35	22	20	12	6.6	3.7	3.4
16	4.0	5.3	5.4	27	e100	e31	26	19	17	8.4	3.7	4.1
17	4.0	5.3	5.4	20	e70	e29	26	18	20	9.7	3.7	4.2
18	4.0	5.5	5.4	16	35	e27	30	17	16	6.9	3.7	4.1
19	3.7	5.7	5.4	14	29	e26	29	17	14	5.9	4.0	4.0
20	3.5	5.4	5.4	12	26	e26	27	17	13	5.8	4.0	4.2
21	3.6	5.2	5.2	17	24	e45	26	17	13	5.6	4.2	4.5
22	3.6	5.1	5.3	13	23	e35	24	17	12	5.8	4.0	4.8
23	3.7	4.8	5.5	11	21	e200	23	17	11	5.9	4.0	4.9
24	3.7	4.6	6.5	23	20	e100	22	17	11	5.8	3.8	5.0
25	3.5	4.7	8.5	81	19	53	21	17	10	5.7	3.7	5.1
26	3.6	5.1	6.8	153	18	46	20	16	9.9	5.2	3.6	5.4
27	3.4	5.5	5.6	56	17	43	19	16	9.4	5.1	3.5	5.4
28	3.6	5.2	5.4	e35	17	40	19	15	7.7	5.0	3.3	6.1
29	4.0	5.1	5.4	e25	---	37	19	14	8.0	4.9	3.0	6.2
30	4.1	5.3	5.2	e20	---	35	18	13	7.7	5.0	2.9	5.9
31	3.8	---	5.1	e17	---	33	---	13	---	5.1	3.3	---
OTAL	114.7	150.9	168.4	1635.2	1520	3189	721	541	368.7	204.2	120.0	122.9
EAN	3.70	5.03	5.43	52.7	54.3	103	24.0	17.5	12.3	6.59	3.87	4.10
AX	4.2	6.8	8.5	250	717	1150	32	22	20	9.7	5.3	6.2
IN	3.3	2.7	4.9	4.8	11	16	18	13	7.7	4.9	2.9	2.7
C-FT	228	299	334	3240	3010	6330	1430	1070	731	405	238	244

e Estimated.

SANTA MARGARITA RIVER BASIN

11042400 TEMECULA CREEK NEAR AGUANGA, 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	1.38	3.39	5.82	18.6	28.5	22.9	11.5	4.89	2.56	1.52	1.32	1.26
MAX	7.94	47.9	66.0	361	266	105	87.3	21.6	13.1	8.19	9.40	6.93
(WY)	1984	1966	1967	1993	1980	1991	1958	1980	1980	1980	1983	1980
MIN	.000	.000	.000	.094	.70	.41	.34	.16	.067	.000	.000	.000
(WY)	1958	1963	1963	1963	1965	1965	1961	1961	1966	1964	1957	1957

SUMMARY STATISTICS

FOR 1994 CALENDAR YEAR

FOR 1995 WATER YEAR

WATER YEARS 1957 - 1995

ANNUAL TOTAL	2800.9	8856.0	
ANNUAL MEAN	7.67	24.3	8.54
HIGHEST ANNUAL MEAN			56.1
LOWEST ANNUAL MEAN			.28
HIGHEST DAILY MEAN	122	Feb 8	3600
LOWEST DAILY MEAN	2.6	Aug 29	.00
ANNUAL SEVEN-DAY MINIMUM	2.7	Aug 28	.00
INSTANTANEOUS PEAK FLOW			8100
INSTANTANEOUS PEAK STAGE			14.60
ANNUAL RUNOFF (AC-FT)	5560	17570	6180
10 PERCENT EXCEEDS	14	32	12
50 PERCENT EXCEEDS	5.3	7.9	1.5
90 PERCENT EXCEEDS	3.2	3.6	.00

SANTA MARGARITA RIVER BASIN

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11042510 VAIL LAKE NEAR TEMECULA, CA

LOCATION.--Lat 33°29'44", long 116°58'33", in Pauba Grant, Riverside County, Hydrologic Unit 18070302, near center of Vail Dam on Temecula Creek, 0.2 mi downstream from Arroyo Seco, and 10 mi east of Temecula.

DRAINAGE AREA.--320 mi².

PERIOD OF RECORD.--October 1960 to September 1985 (monthend contents only). Prior to October 1977, published with Temecula Creek at Vail Dam. October 1987 to current year.

GAGE.--Water-stage recorder. Datum of gage is sea level (levels by the U.S. Bureau of Reclamation). June 4, 1969, to September 1985, nonrecording gage.

REMARKS.--Reservoir is formed by concrete arch-type dam, completed in June 1949. Total capacity, 49,370 acre-ft between elevations 1,352.5 ft, bottom of lowest outlet, and 1,470 ft, crest of spillway, all of which is available for release. There had been no spill from Nov. 13, 1948, date of closure, to Feb. 20, 1980, when a peak spill of about 8,000 ft³/s occurred (from theoretical discharge curve). Water is released down Temecula Creek for diversion about 1 mi downstream. See schematic diagram of Santa Margarita River basin.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents observed, 52,670 acre-ft, Feb. 21, 1980, elevation, 1,473.0 ft, from highwater mark; minimum 1,038 acre-ft, Oct. 31, 1960, elevation, 1,379.44 ft.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 34,910 acre-ft, July 8, 13, elevation, 1,455.24 ft; minimum, 21,040 acre-ft, Dec. 22, elevation, 1,437.47 ft.

Capacity table (elevation, in feet, and contents, in acre-feet)
(Based on table dated Dec. 22, 1953)

1,390	2,400	1,420	11,400	1,450	30,420
1,400	4,530	1,430	16,390	1,460	39,280
1,410	7,560	1,440	22,780	1,475	54,940

RESERVOIR STORAGE (ACRE-FEET), WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY OBSERVATION AT 2400 HOURS

JAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	21860	21720	21310	21050	23360	25440	34290	33620	34460	34880	33920	31620
2	21860	21720	21290	21040	23370	25440	34290	33610	34490	34880	33880	31540
3	21850	21700	21280	21060	23360	25460	34280	33610	34500	34890	33800	31480
4	21860	21680	21270	21380	23360	25480	34260	33610	34530	34890	33700	31470
5	21850	21660	21260	21800	23360	27880	34250	33610	34550	34890	33610	31410
6	21850	21640	21250	21870	23360	29830	34240	33610	34570	34890	33520	31320
7	21850	21620	21250	21910	23350	30150	34200	33620	34580	34890	33420	31210
8	21850	21610	21230	22070	23340	30330	34180	33620	34590	34890	33340	31100
9	21840	21590	e21210	22090	23320	30440	34160	33640	34610	34890	33250	30980
10	21820	21600	e21200	22370	23310	30530	34110	33690	34620	34890	33150	30870
11	21810	21580	21190	22830	23290	32020	34080	33750	34640	34890	33050	30750
12	21820	21560	21170	22990	23280	32630	34040	33770	34650	34890	32960	30630
13	21850	21550	21170	23030	23290	32890	34020	33810	34660	34890	32870	30520
14	21840	21540	21160	23040	24480	33060	33990	33860	34670	34890	32760	30400
15	21840	21520	21140	23060	24930	33200	33960	33910	34680	34880	32670	30320
16	21840	21510	21140	23050	25080	33280	33970	33960	34740	34890	32580	30210
17	21840	21500	21130	23030	25190	33350	33960	34000	34760	34890	32480	30110
18	21830	21480	21120	22980	25260	33400	34010	34030	34780	34890	32390	29990
19	21820	21480	21110	22930	25300	33430	34020	34060	34780	34870	32300	29880
20	21820	21460	21080	22880	25320	33470	34010	34110	34800	34820	32220	29760
21	21830	21440	21080	22860	25350	33610	33980	34140	34810	34780	32130	29660
22	21840	21420	21080	22820	25380	33670	33950	34170	34820	34720	32050	e29550
23	21830	21400	21070	22790	25390	33960	33920	34190	34830	34660	31950	e29440
24	21820	21390	21080	22790	25400	34080	33890	34230	34840	34620	31890	29340
25	21820	21380	21090	22930	25410	34150	33840	34290	34870	34560	31880	29230
26	21840	21370	21080	23250	25420	34200	33810	34320	34870	34470	31870	e29110
27	21820	21360	21080	23320	25430	34250	33770	34340	34870	34370	31850	e29030
28	21800	21340	21080	23340	25440	34260	33740	34360	34880	34300	31850	e28870
29	21790	21330	21070	23340	---	34280	33690	34370	34880	34200	31840	e28790
30	21770	21320	21060	23350	---	34300	33650	34400	34890	34110	31800	e28630
31	21740	---	21060	23360	---	34290	---	34440	---	34020	31730	---
IAX	21860	21720	21310	23360	25440	34300	34290	34440	34890	34890	33920	31620
IN	21740	21320	21060	21040	23280	25440	33650	33610	34460	34020	31730	28630
a	1438.50	1437.89	1437.50	1440.82	1443.67	1454.54	1453.81	1454.71	1455.21	1454.23	1451.57	1447.80
b	-130	-420	-260	+2300	+2080	+8850	-640	+790	+450	-870	-2290	-3100
AL YR 1994	MAX 23540	MIN 21060	b	-920								
TR YR 1995	MAX 34890	MIN 21040	b	+6760								

e Estimated.

a Elevation, in feet, at end of month.

b Change in contents, in acre-feet.

SANTA MARGARITA RIVER BASIN

11042631 PECHANGA CREEK NEAR TEMECULA, CA

LOCATION.--Lat 33°28'06", long 117°07'40", in Temecula Grant, Riverside County, Hydrologic Unit 18070302, on left bank on upstream side of Highway S-16 Bridge, 0.4 mi upstream from Temecula Creek, and 2.1 mi southeast of Temecula.

DRAINAGE AREA.--13.8 mi².

PERIOD OF RECORD.--October 1987 to current year. Discharge measurements only, October 1991 to September 1992.

GAGE.--Water-stage recorder and crest-stage gage. Elevation of gage is 1,010 ft above sea level, from topographic map.

REMARKS.--Records poor. No regulation or diversion upstream from station. See schematic diagram of Santa Margarita River basin.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 3,120 ft³/s, Jan. 16, 1993, gage height, 8.12 ft; no flow for many days each year.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 50 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Jan. 4	1945	*423	*4.63	Mar. 5	2015	358	4.45
Jan. 10	2015	240	4.15	Mar. 11	0815	362	4.46
Jan. 25	1715	53	3.31	Mar. 23	1030	76	3.44
Feb. 14	2015	183	3.96				

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	e.27	e2.8	2.1	.36	.19	.01	.00	.00
2	.00	.00	.00	.00	.27	5.5	1.8	.38	.13	.02	.00	.00
3	.00	.00	.00	.00	.29	8.8	1.6	.36	.08	.02	.00	.00
4	.00	.00	.00	42	.26	5.3	1.2	.29	.06	.02	.00	.00
5	.00	.00	.00	.89	.19	121	1.0	.45	.06	.04	.00	.00
6	.00	.00	.00	.02	.15	77	1.5	1.7	.06	.03	.00	.00
7	.00	.00	.00	.29	.15	10	1.6	.53	.06	.03	.00	.00
8	.00	.00	.00	.10	.15	7.8	1.1	.37	.06	.02	.00	.00
9	.00	.00	.00	.01	.15	5.1	2.2	.75	.06	.02	.00	.00
10	.00	.00	.00	47	.15	5.1	1.4	.26	.06	.02	.00	.00
11	.00	.00	.00	19	.15	116	2.6	.39	.06	.02	.00	.00
12	.00	.00	.00	4.7	.15	28	3.0	.38	.05	.02	.00	.00
13	.00	.00	.00	1.0	1.9	15	1.2	.42	.04	.02	.00	.00
14	.00	.00	.00	.99	65	12	1.8	.26	.04	.02	.00	.00
15	.00	.00	.00	1.7	12	8.3	1.9	.34	.06	.01	.00	.00
16	.00	.00	.00	.93	e6.2	6.6	2.5	.29	.05	.05	.00	.00
17	.00	.00	.00	.59	e5.1	5.6	1.4	.88	.05	.01	.00	.00
18	.00	.00	.00	.39	e4.5	5.1	5.1	.75	.05	.01	.00	.00
19	.00	.00	.00	.30	e4.1	5.1	2.6	.43	.03	.03	.00	.00
20	.00	.00	.00	.30	e3.6	4.7	1.4	.40	.03	.04	.00	.00
21	.00	.00	.00	.36	e3.1	6.6	1.9	.28	.03	.02	.00	.00
22	.00	.00	.00	.30	e3.0	5.6	1.5	.32	.03	.01	.00	.00
23	.00	.00	.00	.39	e3.0	16	1.0	.18	.02	.01	.00	.00
24	.00	.00	.00	1.5	e2.9	5.1	.97	.20	.01	.01	.00	.00
25	.00	.00	.00	22	e2.8	3.9	1.0	.25	.01	.01	.00	.00
26	.00	.00	.00	11	e3.0	3.5	1.5	.37	.01	.00	.00	.00
27	.00	.00	.00	1.0	e2.8	3.5	.76	.14	.01	.00	.00	.00
28	.00	.00	.00	e.30	e2.6	3.5	.78	.12	.02	.00	.00	.00
29	.00	.00	.00	e.29	---	3.1	1.2	.14	.02	.00	.00	.00
30	.00	.00	.00	e.28	---	2.7	1.3	.10	.01	.00	.00	.00
31	.00	---	.00	e.27	---	2.4	---	.17	---	.00	.00	---
TOTAL	0.00	0.00	0.00	157.90	127.93	510.7	50.91	12.26	1.45	0.52	0.00	0.00
MEAN	.000	.000	.000	5.09	4.57	16.5	1.70	.40	.048	.017	.000	.000
MAX	.00	.00	.00	47	65	121	5.1	1.7	.19	.05	.00	.00
MIN	.00	.00	.00	.00	.15	2.4	.76	.10	.01	.00	.00	.00
AC-FT	.00	.00	.00	313	254	1010	101	24	2.9	1.0	.00	.00

e Estimated.

11042631 PECHANGA CREEK NEAR TEMECULA, 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	.000	.004	.039	8.59	3.74	3.66	.30	.17	.069	.031	.023	.001
MAX	.003	.033	.15	63.4	24.4	16.5	1.70	.95	.51	.23	.18	.006
(WY)	1988	1988	1993	1993	1993	1995	1995	1993	1993	1993	1993	1993
MIN	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
(WY)	1989	1989	1990	1991	1992	1989	1989	1988	1988	1988	1988	1988

SUMMARY STATISTICS FOR 1994 CALENDAR YEAR FOR 1995 WATER YEAR WATER YEARS 1988 - 1995

ANNUAL TOTAL	30.41	861.67	
ANNUAL MEAN	.083	2.36	1.38
HIGHEST ANNUAL MEAN			8.27
LOWEST ANNUAL MEAN			.000
HIGHEST DAILY MEAN	13	Feb 7	121
LOWEST DAILY MEAN	.00	Jan 1	.00
ANNUAL SEVEN-DAY MINIMUM	.00	Jan 1	.00
INSTANTANEOUS PEAK FLOW			423
INSTANTANEOUS PEAK STAGE			4.63
ANNUAL RUNOFF (AC-FT)	60		1710
10 PERCENT EXCEEDS	.00		4.0
50 PERCENT EXCEEDS	.00		.02
90 PERCENT EXCEEDS	.00		.00

SANTA MARGARITA RIVER BASIN

11042800 WARM SPRINGS CREEK NEAR MURRIETA, CA

LOCATION.--Lat 33°31'56", long 117°10'34", in Temecula Grant, Riverside County, Hydrologic Unit 18070302, on left bank at upstream end of Jefferson Road Bridge, 0.6 mi upstream from mouth, and 2.8 mi southeast of Murrieta.

DRAINAGE AREA.--55.4 mi².

PERIOD OF RECORD.--October 1987 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 1,040 ft above sea level, from topographic map.

REMARKS.--No estimated daily discharges. Records fair. Gage out of operation for channel work (lining) from Nov. 5, 1991, to June 10, 1992. Rancho California Water District can discharge into creek from automated pump, approximately 0.1 mi upstream from station. See schematic diagram for Santa Margarita River basin.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 5,570 ft³/s, Jan. 17, 1993, gage height, 8.59 ft, from rating curve extended above 2,190 ft³/s; no flow for many days each year.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 50 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Jan. 4	1800	505	5.17	Mar. 6	0315	200	4.65
Jan. 10	1945	1,170	6.19	Mar. 11	1000	*1,480	*6.47
Jan. 25	1430	200	4.65	Mar. 23	2030	192	4.68
Feb. 14	1930	762	5.74	Apr. 16	1100	76	4.51

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	.05	3.6	1.0	1.3	.00	.00	.00	.00	.00
2	.00	.00	.00	.03	3.1	1.3	1.0	.00	.00	.00	.00	.00
3	.00	.12	.00	.90	2.2	7.7	1.0	.00	.00	.00	.00	.00
4	.24	.00	.05	83	2.0	5.5	.53	.00	.00	.00	.00	.00
5	.35	.00	.23	99	4.4	17	.33	.00	.00	.00	.00	.00
6	.00	.00	.07	3.3	1.5	64	.10	.03	.00	.00	.00	.00
7	.00	.00	.00	7.2	.24	17	.03	.00	.00	.00	.00	.00
8	.00	.00	.00	16	.00	9.2	.01	2.3	.00	.00	.00	.00
9	.00	.00	.00	5.1	1.1	3.1	.64	1.6	.00	.00	.00	.00
10	.00	.30	.00	219	.99	2.8	1.1	.00	.00	.00	.00	.00
11	.00	.00	.02	88	.20	618	.93	.00	.00	.00	.00	.00
12	.00	.00	.03	50	.04	130	.79	.00	.00	.00	.00	.00
13	.19	.00	.15	9.6	2.1	26	.89	.00	.00	.00	.00	.00
14	.02	.00	.00	3.2	183	15	.60	.00	.00	.00	.00	.00
15	.00	.00	.00	3.5	81	13	1.1	.00	.00	.00	.00	.00
16	.00	.00	.00	2.3	16	7.0	7.6	.00	.00	.00	.00	.00
17	.00	.07	.00	1.8	8.2	9.6	2.3	.00	.00	.00	.00	.00
18	.00	.18	.00	1.7	5.3	4.6	12	.00	.00	.00	.00	.00
19	.00	.00	.00	1.4	2.8	3.9	5.5	.00	.00	.00	.00	.00
20	.00	.00	.00	.67	2.4	8.2	3.8	.00	.00	.00	.00	.00
21	.00	.00	.00	2.4	2.0	5.9	3.1	.00	.00	.00	.00	.00
22	.00	.00	.21	.71	1.8	11	2.7	.00	.00	.00	.00	.00
23	.00	.00	.08	3.7	1.8	53	1.8	.00	.00	.00	.00	.00
24	.00	.00	.36	17	1.8	30	.55	.00	.00	.00	.00	.00
25	.00	1.0	.54	92	1.2	9.8	.00	.00	.00	.00	.00	.00
26	.00	.12	.03	53	1.2	4.5	.00	.00	.00	.00	.00	.00
27	.00	.06	.07	9.4	1.7	4.2	.00	.00	.00	.00	.00	.00
28	.00	.00	.01	3.3	1.9	7.7	.00	.00	.00	.00	.00	.00
29	.00	.00	.00	6.9	---	3.9	.00	.00	.00	.00	.00	.00
30	.00	.00	.00	7.2	---	1.8	.00	.00	.00	.00	.00	.00
31	.00	---	.00	5.3	---	1.5	---	.00	---	.00	.00	---
TOTAL	0.80	1.85	1.85	796.66	333.57	1097.2	49.70	3.93	0.00	0.00	0.00	0.00
MEAN	.026	.062	.060	25.7	11.9	35.4	1.66	.13	.000	.000	.000	.000
MAX	.35	1.0	.54	219	183	618	12	2.3	.00	.00	.00	.00
MIN	.00	.00	.00	.03	.00	1.0	.00	.00	.00	.00	.00	.00
AC-FT	1.6	3.7	3.7	1580	662	2180	99	7.8	.00	.00	.00	.00

SANTA MARGARITA RIVER BASIN

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11042800 WARM SPRINGS CREEK NEAR MURRIETA, 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	.11	.098	.53	36.2	16.6	17.0	.41	.30	.000	.008	.000	.000
MAX	.46	.31	2.27	226	95.0	74.0	1.66	1.89	.000	.063	.000	.000
(WY)	1993	1988	1993	1993	1993	1991	1995	1993	1988	1988	1988	1988
MIN	.000	.000	.000	.036	.004	.000	.000	.000	.000	.000	.000	.000
(WY)	1989	1989	1990	1994	1989	1988	1989	1989	1988	1989	1988	1988

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR	FOR 1995 WATER YEAR	WATER YEARS 1988 - 1995
ANNUAL TOTAL	167.30	2285.56	
ANNUAL MEAN	.46	6.26	5.91
HIGHEST ANNUAL MEAN			27.6 1993
LOWEST ANNUAL MEAN			.063 1989
HIGHEST DAILY MEAN	51 Feb 7	618 Mar 11	2070 Jan 16 1993
LOWEST DAILY MEAN	.00 Jan 1	.00 Oct 1	.00 Oct 1 1987
ANNUAL SEVEN-DAY MINIMUM	.00 Jan 1	.00 Oct 6	.00 Oct 1 1987
INSTANTANEOUS PEAK FLOW		1480 Mar 11	5570 Jan 17 1993
INSTANTANEOUS PEAK STAGE		6.47 Mar 11	8.59 Jan 17 1993
ANNUAL RUNOFF (AC-FT)	332	4530	4280
10 PERCENT EXCEEDS	.20	7.1	1.2
50 PERCENT EXCEEDS	.00	.00	.00
90 PERCENT EXCEEDS	.00	.00	.00

SANTA MARGARITA RIVER BASIN

11042900 SANTA GERTRUDIS CREEK NEAR TEMECULA, CA

LOCATION.--Lat 33°31'28", long 117°09'50", in Temecula Grant, Riverside County, Hydrologic Unit 18070302, on left bank 0.85 mi upstream from Murrieta Creek, 1.65 mi downstream from Tualota Creek, and 2.2 mi northeast of Temecula.

DRAINAGE AREA.--90.2 mi².

PERIOD OF RECORD.--October 1987 to current year. Discharge measurements only, October 1991 to September 1992.

REVISED RECORDS.--WDR CA-94-1: Drainage area.

GAGE.--Water-stage recorder and concrete control. Elevation of gage is 1,045 ft above sea level, from topographic map. Prior to Oct. 11, 1994, at site 800 ft upstream at different datum.

REMARKS.--No estimated daily discharges. Records fair. Flow partly regulated by Skinner Reservoir, capacity, 43,800 acre-ft. See schematic diagram of Santa Margarita River basin.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 11,500 ft³/s, Jan. 16, 1993, gage height, 8.47 ft, site and datum then in use, from rating curve extended above 1,470 ft³/s; no flow for most of each year.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,810 ft³/s, Jan. 10, gage height, 3.61 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	.00	.00	.00	.00	.94	8.1	50	.00	.00	.00	.00	.00
2	.00	.00	.00	.00	.00	.00	41	.00	.00	.00	.00	.00
3	.00	.00	.00	2.8	.00	31	34	.00	.00	.00	.00	.00
4	.02	.00	.00	154	.00	32	42	.00	.00	.00	.00	.00
5	.13	.00	.00	61	.00	103	24	.00	.00	.00	.00	.00
6	.09	.00	.00	.06	.00	91	3.9	.20	.00	.00	.00	.00
7	.00	.00	.00	16	.00	32	3.6	.00	.00	.00	.00	.00
8	.00	.00	.00	15	.00	34	.93	.00	.00	.00	.00	.00
9	.00	.00	.00	4.2	.00	30	.00	.00	.00	.00	.00	.00
10	.00	.58	.00	314	.00	36	.00	.14	.00	.00	.00	.00
11	.00	.00	.00	116	.00	392	.00	.00	.00	.00	.00	.00
12	.00	.00	.00	66	.00	33	.30	2.4	.00	.00	.00	.00
13	.00	.00	.00	28	5.5	10	2.5	20	.00	.00	.00	.00
14	.00	.00	.00	38	208	22	3.1	1.4	.00	.00	.00	.00
15	.00	.00	.00	34	39	32	2.9	.41	.00	.00	.00	.00
16	.00	.00	.00	24	7.3	36	6.0	.00	.00	1.1	.00	.00
17	.00	.00	.00	27	9.4	39	1.2	.00	.00	.00	.00	.00
18	.00	.00	.00	27	15	53	33	.00	.00	.00	.00	.00
19	.00	.00	.00	41	11	45	25	.00	.00	.00	.00	.00
20	.00	.00	.00	18	28	39	12	.00	.00	.00	.00	.00
21	.00	.00	.00	33	33	46	.00	.00	.00	.00	.00	.00
22	.00	.00	.00	41	38	33	.00	4.9	.00	.00	.00	.00
23	.00	.00	.00	33	36	58	12	16	.00	.00	.00	.00
24	.00	.00	.21	39	31	36	15	48	.00	.00	.00	.00
25	.00	.00	7.3	145	51	32	23	37	.00	.00	.00	.00
26	.00	.00	4.3	41	38	49	18	15	.00	.00	.00	.00
27	.00	.00	.00	1.1	60	56	35	.00	.00	.00	.00	.00
28	.00	.00	.00	2.7	43	37	23	.00	.00	.00	.00	.00
29	.00	.00	.00	5.7	---	45	44	.00	.00	.00	.00	.00
30	.00	.00	.00	5.9	---	49	23	.00	.00	.00	.00	.00
31	.00	---	.00	4.7	---	32	---	.00	---	.00	.00	---
TOTAL	0.24	0.58	11.81	1338.16	654.14	1571.10	478.43	145.45	0.00	1.10	0.00	0.00
MEAN	.008	.019	.38	43.2	23.4	50.7	15.9	4.69	.000	.035	.000	.000
MAX	.13	.58	7.3	314	208	392	50	48	.00	1.1	.00	.00
MIN	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
AC-FT	.5	1.2	23	2650	1300	3120	949	289	.00	2.2	.00	.00

SANTA MARGARITA RIVER BASIN

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11042900 SANTA GERTRUDIS CREEK NEAR TEMECULA, 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	.020	.019	.20	21.8	12.4	17.1	9.75	4.75	.006	.008	.000	.002
MAX	.12	.11	.85	108	54.6	50.7	46.7	28.3	.044	.035	.000	.017
(WY)	1994	1994	1993	1993	1993	1995	1993	1993	1993	1995	1988	1989
MIN	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
(WY)	1988	1988	1990	1991	1988	1988	1989	1988	1988	1988	1988	1988

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR	FOR 1995 WATER YEAR	WATER YEARS 1988 - 1995
ANNUAL TOTAL	458.06	4201.01	
ANNUAL MEAN	1.25	11.5	5.48
HIGHEST ANNUAL MEAN			23.2 1993
LOWEST ANNUAL MEAN			.006 1990
HIGHEST DAILY MEAN	39 Apr 29	392 Mar 11	1340 Jan 16 1993
LOWEST DAILY MEAN	.00 Jan 1	.00 Oct 1	.00 Oct 1 1987
ANNUAL SEVEN-DAY MINIMUM	.00 Jan 1	.00 Oct 7	.00 Oct 1 1987
INSTANTANEOUS PEAK FLOW		1810 Jan 10	11500 Jan 16 1993
INSTANTANEOUS PEAK STAGE		3.61 Jan 10	8.47 Jan 16 1993
ANNUAL RUNOFF (AC-FT)	909	8330	3970
10 PERCENT EXCEEDS	.88	37	10
50 PERCENT EXCEEDS	.00	.00	.00
90 PERCENT EXCEEDS	.00	.00	.00

SANTA MARGARITA RIVER BASIN

11043000 MURRIETA CREEK AT TEMECULA, CA

LOCATION.--Lat 33°28'47", long 117°08'35", in Temecula Grant, Riverside County, Hydrologic Unit 18070302, on right bank 0.4 mi upstream from confluence with Temecula Creek, 1.0 mi south of Temecula, and 12 mi downstream from Skinner Reservoir on Tualota Creek.

DRAINAGE AREA.--222 mi².

PERIOD OF RECORD.--October 1924 to current year. Prior to September 1930 monthly discharges only, published in WSP 1315-B.

REVISED RECORDS.--WSP 1345: 1952. WSP 1635: 1932, 1937. WSP 1928: Drainage area. WDR CA-93-1: 1991 (P), 1992 (M).

GAGE.--Water-stage recorder. Concrete control since Aug. 30, 1981. Elevation of gage is 970 ft above sea level, from topographic map. See WSP 1735 for history of changes prior to Dec. 16, 1938.

REMARKS.--Records fair except for periods of backwater due to beaver dams (October through December and again in September) and estimated daily discharges, which are poor. Flow partly regulated since 1974 by Skinner Reservoir, capacity, 43,800 acre-ft. Pumping upstream from station for irrigation. Rancho California Water District can discharge into creek, approximately 0.1 mi upstream, to supplement low flow. Varying amounts of backwater caused by beaver dams during low flow periods. See schematic diagram of Santa Margarita River basin.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 25,000 ft³/s, Jan. 16, 1993, gage height, 17.24 ft, on basis of slope-area measurement of peak flow; no flow for many days 1989-93.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 150 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Jan. 4	1945	6,540	10.37	Mar. 5	2215	2,690	6.41
Jan. 7	2230	418	3.46	Mar. 11	0815	7,390	10.12
Jan. 10	1915	*8,590	*11.50	Mar. 23	1300	1,260	4.63
Jan. 25	1845	1,140	5.05	Apr. 18	1315	421	3.05
Feb. 14	1815	4,960	8.46				

Minimum daily, 0.08 ft³/s, Aug. 28-30.

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	.33	1.3	.15	1.0	17	e7.0	48	4.1	.62	1.0	1.5	6.5
2	.33	.62	.14	1.0	9.2	e6.0	46	5.0	.73	.96	1.4	5.0
3	.33	1.3	.12	13	4.9	112	45	3.5	.83	.98	1.4	6.6
4	.33	1.6	.12	1120	2.1	15	42	5.6	.62	1.1	1.1	4.7
5	e3.0	1.2	.12	403	1.2	715	36	6.3	.54	1.3	1.2	5.5
6	.33	1.2	.12	14	.48	559	19	11	.79	1.3	1.2	4.4
7	.33	1.2	.11	70	.22	92	17	6.4	.50	1.3	1.2	4.0
8	.33	1.3	.14	145	.22	54	13	4.2	.59	1.3	1.1	2.0
9	.33	.84	.19	22	.19	43	11	3.9	.59	1.2	1.1	.70
10	.33	8.3	.20	1700	3.1	38	11	2.4	.47	1.3	1.1	.57
11	1.3	.95	.15	676	4.4	2970	8.9	5.0	.58	1.4	1.1	.49
12	1.3	.76	.13	301	4.6	398	9.4	5.1	.57	1.1	.86	.87
13	1.6	1.1	.21	77	66	151	10	11	.28	1.1	1.6	.63
14	5.6	1.3	.22	e30	1990	115	12	3.8	2.0	.19	.93	.54
15	.56	1.5	.23	e45	443	91	11	2.1	1.7	1.3	.77	1.3
16	.56	1.9	.23	e36	91	79	99	3.4	6.5	6.1	.80	1.3
17	.56	1.7	.22	e20	e40	70	28	4.2	2.7	2.7	.88	1.3
18	.43	e2.2	.23	e25	e37	68	142	5.1	.13	2.0	.78	1.4
19	.43	1.5	.21	e35	e30	65	42	4.0	.10	1.9	1.0	1.7
20	.56	.93	.24	e20	e26	62	17	4.9	.11	1.7	.81	2.9
21	.43	.98	.25	35	e24	118	13	4.8	.51	1.8	.76	3.3
22	.56	1.0	.47	26	e21	66	9.1	4.6	.82	1.6	.62	2.2
23	.56	.98	.54	31	e18	332	7.7	3.0	1.0	1.7	.78	1.5
24	1.6	.90	1.3	86	e15	152	9.8	3.3	1.0	1.5	.67	1.0
25	2.0	.63	6.7	484	e12	89	9.7	3.0	.38	1.6	.54	1.1
26	2.0	.82	5.2	232	e10	73	11	4.3	.82	1.4	.12	1.2
27	2.0	.36	1.0	44	e9.0	69	17	3.8	1.2	1.5	.09	1.2
28	2.0	.27	1.1	37	e8.0	61	19	4.3	.94	1.4	.08	1.2
29	2.0	.37	1.2	35	---	57	18	3.3	1.1	1.8	.08	1.5
30	2.0	.36	1.1	30	---	52	6.8	2.3	1.0	1.1	.08	2.8
31	1.3	---	1.2	23	---	49	---	.43	---	1.1	1.9	---
TOTAL	35.32	39.37	23.54	5817.0	2887.61	6828.0	788.4	138.13	29.72	47.73	27.55	69.40
MEAN	1.14	1.31	.76	188	103	220	26.3	4.46	.99	1.54	.89	2.31
MAX	5.6	8.3	6.7	1700	1990	2970	142	11	6.5	6.1	1.9	6.6
MIN	.33	.27	.11	1.0	.19	6.0	6.8	.43	.10	.19	.08	.49
AC-FT	70	78	47	11540	5730	13540	1560	274	59	95	55	138

e Estimated.

SANTA MARGARITA RIVER BASIN

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11043000 MURRIETA CREEK AT TEMECULA, CA--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1931 - 1973, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	.58	2.57	7.27	18.2	36.5	32.0	7.85	.92	.55	.41	.40	.65
MAX	1.87	47.3	63.2	289	604	479	167	9.65	1.73	1.20	1.23	9.40
(WY)	1969	1966	1941	1943	1969	1938	1958	1941	1941	1941	1941	1939
MIN	.10	.055	.11	.078	.20	.21	.18	.20	.13	.10	.092	.12
(WY)	1971	1970	1970	1970	1968	1965	1970	1968	1970	1970	1969	1970

SUMMARY STATISTICS

WATER YEARS 1931 - 1973

ANNUAL TOTAL	
ANNUAL MEAN	8.86
HIGHEST ANNUAL MEAN	56.9 1969
LOWEST ANNUAL MEAN	.39 1964
HIGHEST DAILY MEAN	7200 Mar 2 1938
LOWEST DAILY MEAN	.02 Jun 10 1969
ANNUAL SEVEN-DAY MINIMUM	.03 Nov 16 1969
INSTANTANEOUS PEAK FLOW	17500 Jan 23 1943
INSTANTANEOUS PEAK STAGE	13.80 Jan 23 1943
ANNUAL RUNOFF (AC-FT)	6420
10 PERCENT EXCEEDS	2.9
50 PERCENT EXCEEDS	.60
90 PERCENT EXCEEDS	.20

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1974 - 1995, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	1.30	1.35	2.97	75.2	90.0	77.4	11.0	5.04	1.38	1.09	1.08	1.88
MAX	3.28	6.48	11.7	818	838	420	85.4	44.2	4.96	2.48	3.05	10.6
(WY)	1988	1983	1985	1993	1980	1978	1980	1980	1978	1985	1985	1976
MIN	.18	.000	.000	.39	.55	.093	.073	.19	.13	.13	.15	.17
(WY)	1994	1990	1990	1975	1977	1990	1989	1988	1994	1994	1993	1977

SUMMARY STATISTICS

FOR 1994 CALENDAR YEAR

FOR 1995 WATER YEAR

WATER YEARS 1974 - 1995

ANNUAL TOTAL	2219.75	16731.77	
ANNUAL MEAN	6.08	45.8	22.2
HIGHEST ANNUAL MEAN			121 1993
LOWEST ANNUAL MEAN			1.02 1977
HIGHEST DAILY MEAN	387 Feb 7	2970 Mar 11	7790 Jan 16 1993
LOWEST DAILY MEAN	.08 Jun 12	.08 Aug 28	.00 Dec 11 1976
ANNUAL SEVEN-DAY MINIMUM	.09 Jun 10	.12 Dec 2	.00 Nov 28 1988
INSTANTANEOUS PEAK FLOW		8590 Jan 10	25000 Jan 16 1993
INSTANTANEOUS PEAK STAGE		11.50 Jan 10	17.24 Jan 16 1993
ANNUAL RUNOFF (AC-FT)	4400	33190	16060
10 PERCENT EXCEEDS	7.6	65	9.1
50 PERCENT EXCEEDS	.69	1.7	.84
90 PERCENT EXCEEDS	.12	.33	.12

SANTA MARGARITA RIVER BASIN

11044000 SANTA MARGARITA RIVER NEAR TEMECULA, CA

LOCATION.--Lat 33°28'26", long 117°08'29", in Temecula Grant, Riverside County, Hydrologic Unit 18070302, on left bank at upper end of Temecula Canyon, 0.1 mi downstream from confluence of Murrieta and Temecula Creeks, 1.4 mi south of Temecula, 10 mi downstream from Vail Dam, and about 12 mi downstream from Skinner Reservoir.

DRAINAGE AREA.--588 mi².

PERIOD OF RECORD.--January 1923 to current year. Prior to October 1952, published as Temecula Creek at Railroad Canyon, near Temecula.

REVISED RECORDS.--WSP 981: 1927(M). WSP 1928: Drainage area.

GAGE.--Water-stage recorder and crest-stage gage. Concrete control since Nov. 3, 1966; buried by sand Nov. 19, 1985, uncovered by high flow in March 1991. Elevation of gage is 950 ft above sea level, from topographic map. Prior to Nov. 3, 1966, at site 100 ft downstream at same datum.

REMARKS.--Records fair except for estimated daily discharges, which are poor. Flow partly regulated since November 1948 by Vail Lake (station 11042510) on Temecula Creek, and since 1974 by Skinner Reservoir. Rancho California Water District can discharge into Murrieta Creek, approximately 0.1 mi upstream, to supplement low flow. See schematic diagram of Santa Margarita River basin.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 31,000 ft³/s, Jan. 16, 1993, gage height, 22.5 ft, from rating curve extended above 4,000 ft³/s on basis of slope-area measurement of peak flow; minimum daily, 0.16 ft³/s, Mar. 31, Apr. 1, 11, 1988.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 9,150 ft³/s, Jan. 10, gage height, 10.56 ft; minimum daily, 1.9 ft³/s, Dec. 31, Jan. 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	3.2	2.6	2.6	1.9	15	12	61	10	4.6	3.3	4.3	8.8
2	2.2	2.8	2.5	1.9	9.8	9.2	58	10	5.1	3.5	3.8	7.0
3	2.5	4.1	2.4	32	7.0	140	56	9.2	5.5	3.4	3.5	9.1
4	3.4	3.5	2.5	1450	4.4	26	53	10	5.6	4.0	3.2	7.5
5	5.4	2.8	2.5	536	5.3	1070	46	10	5.9	4.6	4.5	7.8
6	3.4	2.7	2.4	19	4.9	802	25	18	4.5	4.0	7.6	6.8
7	2.7	2.8	2.5	88	4.6	102	26	11	2.9	4.7	7.0	6.7
8	2.5	2.9	2.4	173	4.6	63	23	7.7	2.9	4.7	6.5	5.8
9	2.2	2.6	2.4	24	5.7	46	19	7.3	3.4	5.1	4.2	3.0
10	2.3	18	2.3	1750	7.5	41	19	4.8	3.0	4.8	3.5	3.4
11	2.2	e6.0	2.3	1090	7.9	3040	15	6.1	3.0	4.8	3.6	4.2
12	2.9	e2.8	2.3	434	7.6	738	19	5.8	2.9	3.3	3.2	3.6
13	4.2	e2.3	2.2	74	88	163	20	12	2.8	3.2	4.2	3.4
14	11	2.4	2.2	37	2140	118	22	4.8	5.1	2.6	3.7	3.3
15	3.0	2.5	2.1	49	522	100	19	3.1	4.7	3.3	3.8	3.1
16	2.4	2.8	2.2	41	63	88	121	5.4	12	9.5	3.9	2.6
17	2.3	2.5	2.2	29	41	79	41	6.6	6.2	5.2	3.5	2.7
18	2.3	3.6	2.2	33	39	75	199	8.1	3.0	4.5	3.1	2.8
19	2.5	3.0	2.1	41	32	73	59	6.4	2.7	5.1	3.6	2.9
20	2.4	2.4	2.1	29	28	67	26	7.8	2.9	4.2	3.3	5.0
21	2.3	2.7	2.1	38	26	134	19	7.6	2.8	4.2	3.1	5.4
22	2.4	2.8	2.2	30	25	73	13	7.5	3.6	4.2	3.1	4.2
23	2.3	2.5	2.6	35	24	533	12	6.0	3.7	3.9	3.0	2.1
24	2.9	2.3	4.0	85	17	181	17	7.0	3.5	4.1	3.1	2.1
25	4.3	2.8	18	706	27	112	15	7.4	3.0	4.5	2.9	2.2
26	4.1	4.0	6.7	298	28	95	19	8.3	3.0	4.2	2.5	2.1
27	4.2	2.5	2.3	48	29	88	27	7.3	3.2	4.1	2.3	2.0
28	4.1	2.7	2.2	35	28	80	25	8.1	2.8	5.1	2.2	2.0
29	4.3	2.3	2.1	29	---	69	30	6.5	2.7	4.6	2.2	2.2
30	3.8	2.5	2.0	30	---	65	15	6.8	2.7	4.9	2.0	4.4
31	3.3	---	1.9	22	---	60	---	4.7	---	5.3	3.6	---
TOTAL	103.0	102.2	92.5	7288.8	3241.3	8342.2	1119	241.3	119.7	136.9	114.0	128.2
MEAN	3.32	3.41	2.98	235	116	269	37.3	7.78	3.99	4.42	3.68	4.27
MAX	11	18	18	1750	2140	3040	199	18	12	9.5	7.6	9.1
MIN	2.2	2.3	1.9	1.9	4.4	9.2	12	3.1	2.7	2.6	2.0	2.0
AC-FT	204	203	183	14460	6430	16550	2220	479	237	272	226	254

e Estimated.

SANTA MARGARITA RIVER BASIN

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11044000 SANTA MARGARITA RIVER NEAR TEMECULA, CA--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1923 - 1948, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
EAN	7.04	10.4	21.4	32.6	114	90.3	26.7	10.2	7.01	5.41	5.01	5.93
AX	11.8	39.3	99.9	369	1205	1007	226	40.2	15.1	9.90	9.65	19.4
WY)	1942	1945	1941	1943	1927	1938	1941	1941	1941	1941	1941	1939
IN	3.77	3.11	4.97	8.03	7.59	5.90	4.19	3.62	3.12	1.55	1.90	2.31
WY)	1925	1930	1930	1936	1925	1931	1928	1929	1929	1929	1926	1926

SUMMARY STATISTICS

WATER YEARS 1923 - 1948

ANNUAL MEAN	28.2	
HIGHEST ANNUAL MEAN	101	1927
LOWEST ANNUAL MEAN	6.22	1925
HIGHEST DAILY MEAN	19900	Feb 16 1927
LOWEST DAILY MEAN	.90	Aug 9 1929
ANNUAL SEVEN-DAY MINIMUM	.99	Aug 8 1929
INSTANTANEOUS PEAK FLOW	25000	Feb 16 1927
INSTANTANEOUS PEAK STAGE	14.60	Feb 16 1927
ANNUAL RUNOFF (AC-FT)	20390	
0 PERCENT EXCEEDS	21	
0 PERCENT EXCEEDS	8.5	
0 PERCENT EXCEEDS	3.5	

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1949 - 1973, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
EAN	3.39	6.24	8.90	21.8	36.7	18.6	12.4	3.97	3.35	2.79	3.01	3.06
AX	6.04	53.3	41.4	251	638	212	177	6.70	5.59	4.69	6.38	6.55
WY)	1954	1966	1966	1952	1969	1952	1958	1949	1949	1949	1953	1953
IN	2.05	2.22	2.69	2.73	2.54	2.57	2.35	2.39	2.19	1.51	1.28	1.45
WY)	1967	1967	1965	1965	1965	1965	1972	1970	1973	1972	1972	1970

SUMMARY STATISTICS

WATER YEARS 1949 - 1973

ANNUAL MEAN	10.2	
HIGHEST ANNUAL MEAN	62.5	1969
LOWEST ANNUAL MEAN	2.96	1964
HIGHEST DAILY MEAN	7730	Feb 25 1969
LOWEST DAILY MEAN	.30	Aug 18 1966
ANNUAL SEVEN-DAY MINIMUM	.67	Aug 17 1966
INSTANTANEOUS PEAK FLOW	14600	Feb 25 1969
INSTANTANEOUS PEAK STAGE	15.32	Feb 25 1969
ANNUAL RUNOFF (AC-FT)	7390	
0 PERCENT EXCEEDS	7.3	
0 PERCENT EXCEEDS	3.7	
0 PERCENT EXCEEDS	2.2	

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1974 - 1995, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
EAN	3.01	4.12	5.68	103	122	98.9	14.7	7.66	3.04	2.35	2.58	3.27
AX	10.8	32.8	21.9	1255	1105	438	85.6	46.6	6.87	4.55	9.99	13.9
WY)	1994	1986	1985	1993	1980	1978	1980	1980	1978	1980	1993	1976
IN	1.25	.27	.51	2.35	1.84	.36	.32	.58	.72	.58	.91	1.33
WY)	1982	1989	1990	1976	1989	1988	1989	1988	1984	1984	1984	1987

SUMMARY STATISTICS

FOR 1994 CALENDAR YEAR

FOR 1995 WATER YEAR

WATER YEARS 1974 - 1995

ANNUAL TOTAL	3985.5	21029.1	
ANNUAL MEAN	10.9	57.6	30.4
HIGHEST ANNUAL MEAN			183
LOWEST ANNUAL MEAN			2.17
HIGHEST DAILY MEAN	632	Feb 7	3040
LOWEST DAILY MEAN	1.9	Aug 7	1.9
ANNUAL SEVEN-DAY MINIMUM	2.0	Aug 6	2.0
INSTANTANEOUS PEAK FLOW			9150
INSTANTANEOUS PEAK STAGE			10.56
ANNUAL RUNOFF (AC-FT)	7910	41710	22060
0 PERCENT EXCEEDS	12	73	15
0 PERCENT EXCEEDS	3.9	4.7	2.5
0 PERCENT EXCEEDS	2.2	2.3	1.0

11044250 RAINBOW CREEK NEAR FALLBROOK, CA

LOCATION.--Lat 33°24'27", long 117°12'00", NW 1/4 SE 1/4 sec.9, T.9 S., R.3 W., San Diego County, Hydrologic Unit 18070302, on left bank 1.0 mi upstream of the confluence with Santa Margarita River and 3.4 mi northeast of Fallbrook.

DRAINAGE AREA.--10.3 mi².

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

REVISED RECORDS.--WDR CA-91-1: 1990(M).

GAGE.--Water-stage recorder and crest-stage gage. Elevation of gage is 540 ft above sea level, from topographic map.

REMARKS.--Records fair except for estimated daily discharges, which are poor. No regulation upstream from station. Undetermined amount of water upstream from station used for irrigation by a local nursery. Water is imported for domestic use and irrigation. See schematic diagram of Santa Margarita River basin.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 8,000 ft³/s (estimated), Jan. 16, 1993, gage height, unknown, on basis of slope-area measurement of peak flow; minimum daily, 0.11 ft³/s, Oct. 13-15, 1991.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 100 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Jan. 4	1945	*1,280	*8.24	Mar. 5	2100	1,010	7.63
Jan. 7	2130	167	4.51	Mar. 11	0745	757	6.96
Jan. 10	1930	704	6.80	Mar. 23	1115	205	4.70
Jan. 25	2315	220	4.78	Apr. 18	1315	130	4.28
Feb. 14	1930	413	5.72				

Minimum daily, 0.28 ft³/s, Oct. 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	.73	e.50	.55	.69	9.4	5.3	8.2	3.3	1.5	.86	.47	.84
2	.49	e.40	.56	.54	7.5	5.2	7.5	3.2	1.6	.74	.48	1.1
3	.52	.37	.54	5.5	6.4	30	6.9	2.8	1.5	.68	.45	1.1
4	.49	.36	.38	180	5.7	13	6.7	2.7	1.2	.66	.50	1.1
5	.70	.46	.34	23	5.1	442	6.4	2.7	1.3	.70	.51	.88
6	.52	.46	.38	2.6	4.8	224	6.3	4.1	1.3	.66	.58	1.6
7	.34	.54	.44	23	4.7	66	5.9	3.2	1.2	.66	.58	1.9
8	.38	.47	.39	30	4.1	34	5.7	2.8	1.1	.69	.89	1.1
9	.50	.48	.34	4.6	3.8	23	5.5	2.6	1.1	.63	1.2	2.0
10	.45	4.5	.29	146	3.6	21	4.9	2.3	1.2	.63	1.1	1.4
11	.43	.72	.47	120	3.4	293	4.5	2.4	1.2	.67	1.0	1.2
12	.53	.44	.39	64	3.5	103	4.4	2.2	1.2	.57	.98	1.0
13	.95	.49	.50	24	18	58	4.2	3.9	1.1	.63	.98	.98
14	1.0	.43	.50	16	153	41	4.2	2.3	1.7	.56	.80	.91
15	.45	.52	.44	19	50	31	4.0	2.0	1.5	.59	.59	.96
16	.31	.84	.43	13	22	26	20	2.8	4.9	.86	.62	1.1
17	.28	.58	.40	9.0	17	23	6.1	2.3	2.1	.59	.69	1.2
18	.43	.48	.37	6.9	15	20	29	2.2	1.2	.50	.62	1.1
19	.72	.40	.47	6.1	13	18	9.6	1.9	1.1	.51	.80	1.1
20	1.2	.42	.44	5.1	12	16	7.2	1.7	.87	.53	.78	1.1
21	1.2	.55	.50	10	9.8	35	6.6	1.7	.82	.49	.67	.95
22	1.2	.50	.53	5.3	8.7	19	4.7	1.7	.81	.57	.76	.84
23	1.2	.54	.92	5.8	8.2	61	4.8	1.7	.79	.56	1.0	4.9
24	.84	.59	1.1	21	8.3	25	3.9	1.8	.77	.55	1.1	1.1
25	.44	.64	4.3	64	6.8	18	3.7	1.8	.78	.53	.73	1.2
26	.68	.53	.75	48	7.6	15	3.7	1.6	.76	.51	.77	1.2
27	.85	.40	.61	22	5.5	13	3.5	1.4	.76	.52	.80	.93
28	.98	.47	.68	17	5.6	12	4.4	1.4	.75	.64	.69	1.0
29	.84	.31	.67	15	---	10	4.7	1.4	.73	.64	.73	.91
30	.93	.34	.59	12	---	9.2	3.9	1.4	.69	.57	.68	.82
31	.76	---	.75	10	---	8.6	---	1.3	---	.53	.77	---
TOTAL	21.34	18.73	20.02	929.13	422.5	1718.3	201.1	70.6	37.53	19.03	23.32	37.52
MEAN	.69	.62	.65	30.0	15.1	55.4	6.70	2.28	1.25	.61	.75	1.25
MAX	1.2	4.5	4.3	180	153	442	29	4.1	4.9	.86	1.2	4.9
MIN	.28	.31	.29	.54	3.4	5.2	3.5	1.3	.69	.49	.45	.82
AC-FT	42	37	40	1840	838	3410	399	140	74	38	46	74

e Estimated.

11044250 RAINBOW CREEK NEAR FALLBROOK, 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	.48	.51	.93	22.2	14.8	16.2	3.39	1.35	.87	.52	.49	.54
MAX	.69	.69	1.83	97.3	55.3	55.4	6.70	2.28	1.53	.90	.75	1.25
(WY)	1995	1990	1993	1993	1993	1995	1995	1995	1990	1990	1995	1995
MIN	.35	.26	.46	.65	2.16	1.35	1.47	.83	.38	.18	.31	.23
(WY)	1992	1993	1991	1991	1990	1990	1990	1991	1994	1994	1994	1994

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1990 - 1995	
ANNUAL TOTAL	570.99		3519.12			
ANNUAL MEAN	1.56		9.64		5.95	
HIGHEST ANNUAL MEAN					14.4	
LOWEST ANNUAL MEAN					1.55	
HIGHEST DAILY MEAN	70	Feb 7	442	Mar 5	800	Jan 16 1993
LOWEST DAILY MEAN	.13	Jul 26	.28	Oct 17	.11	Oct 13 1991
ANNUAL SEVEN-DAY MINIMUM	.14	Sep 6	.37	Dec 4	.14	Oct 11 1991
INSTANTANEOUS PEAK FLOW			1280	Jan 4	8000	Jan 16 1993
INSTANTANEOUS PEAK STAGE			8.24	Jan 4		
ANNUAL RUNOFF (AC-FT)	1130		6980		4310	
10 PERCENT EXCEEDS	2.4		19		6.9	
50 PERCENT EXCEEDS	.50		1.1		.70	
90 PERCENT EXCEEDS	.17		.47		.29	

11044300 SANTA MARGARITA RIVER AT FALLBROOK PUBLIC UTILITY DISTRICT SUMP, NEAR FALLBROOK, CA

LOCATION.--Lat 33°24'49", long 117°14'25", in NW 1/4 NW 1/4 sec.7, T.9 S., R.4 W., San Diego County, Hydrologic Unit 18070302, on left bank 0.3 mi upstream of confluence with Sandia Creek and 2.9 mi north of Fallbrook.

DRAINAGE AREA.--620 mi².

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

GAGE.--Water-stage recorder and crest-stage gage. Elevation of gage is 330 ft above sea level, from topographic map.

REMARKS.--Records fair except for estimated daily discharges, which are poor. Flow partly regulated since November 1948 by Vail Lake (station 11042510) and since 1974 by Skinner Reservoir. See schematic diagram of Santa Margarita River basin.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 34,000 ft³/s, estimated, based on regression equation and flood routing of upstream flows, Jan. 16, 1993, gage height, 15.89 ft; no flow several days in 1990.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 8,750 ft³/s, Jan. 10, gage height, 9.07 ft, from rating curve extended above 700 ft³/s based on regression equation as explained above; minimum daily, 3.3 ft³/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	4.0	4.8	e4.4	3.9	31	30	87	25	16	9.0	7.7	5.9
2	4.5	3.6	e4.3	3.7	26	26	83	25	16	9.3	7.6	7.0
3	4.0	3.5	4.4	9.3	24	100	78	23	15	9.0	7.4	7.4
4	4.2	4.5	4.3	1350	23	46	72	23	15	9.4	7.7	8.0
5	5.8	4.8	4.1	1340	22	1170	69	25	14	10	7.9	8.2
6	6.7	4.4	4.0	50	22	1220	54	27	14	11	8.0	8.7
7	5.3	4.4	4.0	50	22	212	49	26	13	10	8.1	8.4
8	4.4	4.5	4.2	227	22	159	47	21	12	9.6	8.3	8.2
9	4.1	4.5	4.0	31	22	130	43	20	12	9.2	8.2	7.8
10	3.9	7.1	3.9	1890	22	117	40	18	12	9.3	8.1	7.5
11	3.5	14	4.1	e1950	21	3580	36	18	11	9.4	8.0	7.6
12	3.6	5.3	4.3	846	21	923	37	20	10	9.2	7.7	7.4
13	4.2	3.9	4.2	254	e70	299	37	24	10	8.9	7.4	7.2
14	7.2	3.9	4.4	109	e2300	223	38	21	11	8.6	7.4	7.1
15	7.5	3.5	4.1	106	e600	188	40	17	13	7.9	7.2	7.1
16	4.2	3.6	4.3	98	98	174	98	18	21	8.0	7.1	6.8
17	3.6	4.4	4.3	60	69	153	61	18	19	11	6.9	6.8
18	3.5	4.4	4.4	52	61	151	107	19	13	8.9	6.8	6.2
19	3.3	4.4	4.5	51	52	151	73	20	12	8.9	6.9	6.0
20	3.8	4.2	4.4	48	46	147	44	19	12	8.6	6.9	6.2
21	4.5	4.1	4.4	89	43	196	39	20	12	8.2	6.9	6.3
22	4.4	4.0	4.5	72	40	169	33	20	13	7.6	6.8	6.1
23	4.5	e4.0	5.4	66	39	327	29	19	13	7.1	6.8	6.2
24	4.5	e4.1	5.8	138	35	253	31	17	13	7.0	6.5	5.8
25	3.7	e4.7	16	637	38	183	32	17	12	7.6	6.3	6.1
26	4.7	e8.5	11	304	40	156	30	16	10	7.5	6.3	6.2
27	5.0	e6.0	7.2	73	38	147	32	17	9.8	7.4	6.3	6.3
28	5.3	e5.2	4.2	52	38	129	32	17	9.5	7.3	6.1	6.2
29	5.1	e4.8	4.0	45	---	106	32	17	10	7.3	5.8	6.2
30	5.5	e4.6	3.9	42	---	107	29	16	9.4	7.7	5.8	6.5
31	5.4	---	3.8	35	---	95	---	16	---	7.7	5.8	---
TOTAL	143.9	147.7	154.8	10081.9	3885	11067	1512	619	382.7	267.6	220.7	207.4
MEAN	4.64	4.92	4.99	325	139	357	50.4	20.0	12.8	8.63	7.12	6.91
MAX	7.5	14	16	1950	2300	3580	107	27	21	11	8.3	8.7
MIN	3.3	3.5	3.8	3.7	21	26	29	16	9.4	7.0	5.8	5.8
AC-FT	285	293	307	20000	7710	21950	3000	1230	759	531	438	411

e Estimated.

SANTA MARGARITA RIVER BASIN

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11044300 SANTA MARGARITA RIVER AT FALLBROOK PUBLIC UTILITY DISTRICT SUMP, NEAR FALLBROOK, 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	7.05	3.91	10.9	308	220	180	28.7	18.5	10.6	5.80	5.56	5.70
MAX	15.7	8.32	31.1	1462	860	490	70.4	54.5	25.1	11.4	10.1	9.03
(WY)	1994	1994	1993	1993	1993	1991	1993	1993	1993	1993	1993	1993
MIN	4.31	1.48	1.66	4.65	22.8	2.50	4.51	6.28	5.78	2.11	1.00	1.22
(WY)	1991	1992	1990	1991	1990	1990	1990	1990	1992	1990	1990	1990

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR	FOR 1995 WATER YEAR	WATER YEARS 1990 - 1995
ANNUAL TOTAL	5505.9	28689.7	
ANNUAL MEAN	15.1	78.6	66.5
HIGHEST ANNUAL MEAN			220
LOWEST ANNUAL MEAN			5.99
HIGHEST DAILY MEAN	728 Feb 7	3580 Mar 11	14300 Jan 16 1993
LOWEST DAILY MEAN	1.6 Aug 12	3.3 Oct 19	.00 Aug 1 1990
ANNUAL SEVEN-DAY MINIMUM	1.9 Aug 10	3.9 Oct 16	.05 Jul 31 1990
INSTANTANEOUS PEAK FLOW		8750 Jan 10	34000 Jan 16 1993
INSTANTANEOUS PEAK STAGE		9.07 Jan 10	15.89 Jan 16 1993
ANNUAL RUNOFF (AC-FT)	10920	56910	48200
10 PERCENT EXCEEDS	18	112	67
50 PERCENT EXCEEDS	6.7	9.8	6.4
90 PERCENT EXCEEDS	3.6	4.2	2.0

SANTA MARGARITA RIVER BASIN

11044350 SANDIA CREEK NEAR FALLBROOK, CA

LOCATION.--Lat 33°25'28", long 117°14'54", in SW 1/4 NE 1/4 sec.1, T.9 S., R.4 W., San Diego County, Hydrologic Unit 18070302, on left bank 1.05 mi north of intersection of Sandia and Rock Mountain Roads, 0.8 mi upstream from mouth, and 3.8 mi north of Fallbrook.

DRAINAGE AREA.--21.1 mi².

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

REVISED RECORDS.--WDR CA-91-1: 1990(M).

GAGE.--Water-stage recorder and crest-stage gage. Elevation of gage is 380 ft above sea level, from topographic map. Prior to Sept. 30, 1993, at site 0.65 mi downstream at different datum.

REMARKS.--Records fair except for estimated daily discharges, which are poor. No regulation or diversion upstream from station. See schematic diagram of Santa Margarita River basin.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 5,100 ft³/s, Jan. 16, 1993, gage height, 17.60 ft, site and datum then in use, from floodmarks (may have been affected by backwater from the Santa Margarita River); minimum daily, 0.15 ft³/s, Sept. 13, 1990, Aug. 16, 1994.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 50 ft³/s and maximum (*), from rating curve extended above 182 ft³/s on basis of slope-area measurement of peak flow:

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Jan. 4	Unknown	*2,100	*7.59	Mar. 5	1945	1,160	5.62
Jan. 10	1830	2,000	7.40	Mar. 11	0815	1,380	6.13
Jan. 25	1615	158	2.92	Mar. 23	1130	201	3.18
Feb. 14	0730	901	4.96	Apr. 18	1330	169	2.71

Minimum daily, 0.58 ft³/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	.58	.82	2.0	2.9	27	15	25	14	9.7	e6.5	2.7	1.1
2	.77	1.2	1.9	3.0	26	15	25	14	9.9	e6.4	2.6	1.0
3	1.3	1.5	1.9	4.6	26	51	23	13	9.0	e6.2	2.2	1.4
4	2.2	1.9	2.0	e375	26	21	22	13	8.4	e6.0	1.9	1.0
5	3.2	1.9	2.3	e40	26	365	23	13	8.8	e5.9	2.0	.96
6	2.8	1.9	2.1	26	25	215	24	14	9.4	e5.8	1.8	.78
7	2.4	1.9	2.1	37	24	82	23	16	9.0	e5.7	2.7	.66
8	1.7	1.9	1.8	81	24	69	24	15	9.0	e5.5	2.5	.77
9	1.3	1.9	1.7	23	23	56	26	16	8.4	e5.4	2.3	.69
10	1.3	3.2	1.6	453	22	56	26	13	7.2	e5.3	2.3	1.3
11	1.1	3.1	2.1	348	21	553	25	13	6.5	e5.0	1.7	1.1
12	1.1	2.6	1.9	169	21	175	25	13	7.1	e4.7	1.4	.96
13	1.5	2.4	2.5	95	30	122	31	13	7.7	e4.4	1.8	1.1
14	1.5	2.3	2.5	65	330	86	47	12	8.0	e4.2	2.0	1.1
15	1.3	2.0	2.6	52	72	58	48	8.6	8.4	e4.0	2.2	1.1
16	1.0	2.2	2.7	42	43	52	70	8.5	10	e3.8	2.5	.97
17	1.1	2.3	2.6	34	36	45	35	8.4	8.4	e3.6	2.5	1.7
18	1.1	2.6	2.6	32	29	36	70	8.7	7.1	e3.4	1.8	1.4
19	1.2	2.1	2.6	27	23	35	41	8.6	7.2	e3.2	1.8	.92
20	1.2	2.2	2.4	24	22	32	31	7.9	7.1	3.0	2.1	.93
21	1.2	2.3	2.3	27	25	44	26	7.8	7.1	2.5	2.1	1.4
22	.99	2.2	2.3	24	24	29	22	8.7	7.2	2.5	2.2	1.5
23	.82	2.1	2.5	24	23	59	19	9.3	6.9	2.0	2.2	.83
24	1.0	2.2	2.9	34	21	32	17	9.4	6.4	2.9	2.1	.90
25	.84	2.2	3.8	71	19	27	16	9.6	6.8	3.5	1.8	.63
26	1.1	2.5	3.2	67	17	24	16	9.4	7.0	3.6	1.6	.84
27	1.2	2.4	2.6	40	16	24	16	8.5	6.6	3.1	1.3	4.2
28	1.4	2.3	2.5	37	16	25	15	8.1	6.6	2.7	1.4	2.2
29	1.1	2.1	2.3	37	---	24	15	8.4	6.4	2.3	1.4	2.0
30	.88	2.0	2.7	34	---	23	14	9.0	e6.4	2.1	1.4	1.3
31	.90	---	2.9	31	---	23	---	9.3	---	2.4	1.1	---
TOTAL	41.08	64.22	73.9	2359.5	1037	2473	840	340.2	233.7	127.6	61.4	36.74
MEAN	1.33	2.14	2.38	76.1	37.0	79.8	28.0	11.0	7.79	4.12	1.98	1.22
MAX	3.2	3.2	3.8	453	330	553	70	16	10	6.5	2.7	4.2
MIN	.58	.82	1.6	2.9	16	15	14	7.8	6.4	2.0	1.1	.63
AC-FT	81	127	147	4680	2060	4910	1670	675	464	253	122	73

e Estimated.

SANTA MARGARITA RIVER BASIN

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11044350 SANDIA CREEK NEAR FALLBROOK, 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	1.52	1.92	2.60	54.8	34.9	35.4	13.2	7.19	4.88	2.29	1.39	.99
MAX	2.27	2.84	3.31	237	128	79.8	28.0	11.0	8.04	4.12	2.41	1.30
(WY)	1994	1994	1993	1993	1993	1995	1995	1995	1993	1995	1992	1992
MIN	1.09	1.34	1.88	2.77	5.34	4.28	4.93	2.89	2.08	.54	.40	.44
(WY)	1990	1992	1990	1991	1991	1990	1990	1990	1990	1990	1994	1990

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR				FOR 1995 WATER YEAR				WATER YEARS 1990 - 1995			
ANNUAL TOTAL	1307.45				7688.34							
ANNUAL MEAN	3.58				21.1				13.3			
HIGHEST ANNUAL MEAN									36.8			
LOWEST ANNUAL MEAN									2.65			
HIGHEST DAILY MEAN	70 Feb 7				553 Mar 11				2000 Jan 16 1993			
LOWEST DAILY MEAN	.15 Aug 16				.58 Oct 1				.15 Sep 13 1990			
ANNUAL SEVEN-DAY MINIMUM	.21 Aug 14				.88 Sep 4				.21 Aug 14 1994			
INSTANTANEOUS PEAK FLOW					2100 Jan 4				5100 Jan 16 1993			
INSTANTANEOUS PEAK STAGE					7.59 Jan 4				17.60 Jan 16 1993			
ANNUAL RUNOFF (AC-FT)	2590				15250				9670			
10 PERCENT EXCEEDS	6.7				40				21			
50 PERCENT EXCEEDS	2.5				5.9				2.7			
90 PERCENT EXCEEDS	.46				1.1				.90			

SANTA MARGARITA RIVER BASIN

11044800 DE LUZ CREEK NEAR DE LUZ, CA

LOCATION.--Lat 33°25'11", long 117°19'15", in SW 1/4 SE 1/4 sec. 5, T.9 S., R.4 W., San Diego County, Hydrologic Unit 18070302, on left bank 4.85 mi upstream from mouth and 1.2 mi south of De Luz.

DRAINAGE AREA.--33.0 mi².

PERIOD OF RECORD.--October 1992 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 270 ft above sea level, from topographic map. February 1951 to September 1965 and October 1989 to September 1991, at site 4.2 mi downstream (published as 11044900, De Luz Creek near Fallbrook).

REMARKS.--Records fair except for discharges below 250 ft³/s and estimated daily discharges, which are poor. No regulation or diversion upstream from station. See schematic diagram of Santa Margarita River basin.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 9,700 ft³/s, Jan. 16, 1993, gage height, 15.13 ft, on basis of flow-over-road computation; no flow at times in some years.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 100 ft³/s and maximum (*), from rating curve extended above 385 ft³/s on basis of flow-over-road computation:

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Jan. 4	1915	3,160	9.99	Mar. 5	2000	2,470	9.23
Jan. 10	1815	*3,930	*10.74	Mar. 11	0715	2,100	8.79
Jan. 25	1630	440	6.13	Mar. 23	1045	678	6.66
Feb. 14	0745	2,260	8.98	Apr. 18	1530	121	5.07

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	.11	.35	e38	e44	e46	17	e9.3	3.1	1.2	.48
2	.00	.00	.27	.35	e36	e42	e45	12	9.6	3.0	.92	.76
3	.00	.00	.31	.45	e37	59	e44	13	10	2.9	.69	.47
4	.00	.00	.27	417	e36	55	e42	12	11	2.9	.80	.39
5	.00	.00	.33	181	e35	879	e40	11	11	2.8	.80	.25
6	.00	.00	.29	27	e35	e590	e37	13	10	2.6	.87	.22
7	.00	.00	.23	42	e35	e312	e35	12	7.8	2.6	.68	.15
8	.00	.00	.37	160	e33	e203	e34	12	7.4	2.3	.62	.17
9	.00	.00	.40	48	e32	125	e33	12	6.6	2.2	.88	.21
10	.00	.00	.41	751	e32	117	29	10	5.8	2.2	.81	.68
11	.00	.00	.45	579	e32	875	27	10	5.9	2.1	.83	.60
12	.00	.00	.44	308	e33	328	25	10	5.7	2.4	.89	.35
13	.00	.00	.47	166	51	225	23	10	5.8	2.6	.85	.26
14	.00	.00	.48	e113	734	172	24	11	5.4	2.8	.89	.26
15	.00	.00	.37	e98	259	156	28	10	5.3	2.3	.82	.25
16	.00	.00	.25	e78	e160	e137	e45	11	5.8	1.8	.91	.33
17	.00	.00	.25	e59	e128	e130	38	10	5.6	1.7	.87	.37
18	.00	.00	.26	e46	e91	e125	61	e9.8	4.7	1.5	.72	.27
19	.00	.00	.27	e40	e78	e117	49	e9.5	4.5	1.5	.76	.25
20	.00	.00	.27	e35	e64	e100	42	9.4	4.7	1.6	.57	.15
21	.00	.00	.25	e39	e62	e141	37	9.8	5.2	1.6	.69	.10
22	.00	.00	.22	e34	e59	e126	32	e9.5	4.6	1.6	.61	.10
23	.00	.00	.27	e34	e57	e207	27	e9.5	4.5	1.5	.57	.10
24	.00	.00	.30	e70	e52	e113	23	e9.6	4.1	1.4	.79	.16
25	.00	.00	.39	e195	e50	e99	21	e9.5	3.6	1.2	.76	.17
26	.00	.00	.40	203	e49	e94	22	e9.4	3.4	.99	.54	.28
27	.00	.00	.37	108	e48	e69	20	e9.4	3.1	.94	.56	.25
28	.00	.00	.36	79	e45	e60	19	e9.3	3.0	1.0	.48	.30
29	.00	.00	.37	e66	---	e54	17	e9.4	3.1	.96	.34	.23
30	.00	.00	.36	e53	---	e51	17	e9.4	3.1	1.2	.40	.18
31	.00	---	.35	e42	---	e48	---	e9.3	---	1.2	.36	---
TOTAL	0.00	0.00	10.14	4072.15	2401	5853	982	328.8	179.6	60.49	22.48	8.74
MEAN	.000	.000	.33	131	85.7	189	32.7	10.6	5.99	1.95	.73	.29
MAX	.00	.00	.48	751	734	879	61	17	11	3.1	1.2	.76
MIN	.00	.00	.11	.35	32	42	17	9.3	3.0	.94	.34	.10
AC-FT	.00	.00	20	8080	4760	11610	1950	652	356	120	45	17

e Estimated.

SANTA MARGARITA RIVER BASIN

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11044800 DE LUZ CREEK NEAR DE LUZ, CA--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1993 - 1995, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	.48	.72	1.65	166	101	81.2	18.3	7.62	4.72	1.46	.46	.23
MAX	1.07	1.31	2.65	365	200	189	32.7	10.6	7.33	2.30	.73	.40
(WY)	1993	1993	1993	1993	1993	1995	1995	1995	1993	1993	1995	1993
MIN	.000	.000	.33	1.56	16.7	7.84	4.26	2.82	.86	.12	.000	.000
(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 1993 - 1995	
ANNUAL TOTAL	1014.75					13918.40						
ANNUAL MEAN	2.78					38.1					31.7	
HIGHEST ANNUAL MEAN											53.9	
LOWEST ANNUAL MEAN											3.02	
HIGHEST DAILY MEAN	77					879					3220	
LOWEST DAILY MEAN	.00					.00					.00	
ANNUAL SEVEN-DAY MINIMUM	.00					.00					.00	
INSTANTANEOUS PEAK FLOW						3930					9700	
INSTANTANEOUS PEAK STAGE						10.74					15.13	
ANNUAL RUNOFF (AC-FT)	2010					27610					22960	
10 PERCENT EXCEEDS	5.7					98					52	
50 PERCENT EXCEEDS	.39					2.8					1.8	
90 PERCENT EXCEEDS	.00					.00					.00	

SANTA MARGARITA RIVER BASIN

11045300 FALLBROOK CREEK NEAR FALLBROOK, CA

LOCATION.--Lat 33°20'49", long 117°19'01", in SE 1/4 SE 1/4 sec.32, T.9 S., R.4 W., San Diego County, Hydrologic Unit 18070302, on Camp Joseph H. Pendleton Naval Reservation, on right bank at culvert on DeLuz Road, 0.75 mi upstream from O'Neill Lake, and 4.5 mi southwest of Fallbrook.

DRAINAGE AREA.--6.97 mi².

PERIOD OF RECORD.--October 1993 to current year. Discharge records for October 1964 to September 1977 and October 1989 to September 1993 available in files of U.S. Marine Corps at Camp Pendleton.

GAGE.--Water-stage recorder and concrete control with low water Parshall flume. Elevation of gage is 190 ft above sea level, from topographic map.

REMARKS.--No estimated daily discharges. Records good through April and fair thereafter. Slight regulation by two small storage reservoirs upstream from station. See schematic diagram of Santa Margarita River basin.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 782 ft³/s, Jan. 4, 1995, gage height, 8.92 ft; no flow for many days in most years.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 100 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Jan. 4	2115	*782	*8.92	Mar. 5	2130	555	7.15
Jan. 7	2345	204	3.75	Mar. 11	0845	633	7.78
Jan. 10	2015	409	5.87				

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	.03	.26	.51	2.6	1.9	3.2	1.9	1.3	.74	.56	.19
2	.00	.04	.26	.55	2.6	1.9	3.2	2.0	1.6	.83	.54	.18
3	.00	.05	.26	2.3	2.3	13	3.1	1.9	1.4	.88	.53	.17
4	.04	.03	.26	129	2.3	5.7	3.0	1.7	1.4	.94	.51	.16
5	.01	.03	.27	28	2.1	256	2.9	1.6	1.4	.80	.53	.15
6	.00	.03	.27	3.1	2.1	81	2.9	2.6	1.4	.73	.51	.12
7	.00	.03	.27	17	2.1	16	2.8	2.5	1.3	.81	.50	.13
8	.00	.03	.25	61	2.1	11	2.7	2.3	1.2	.76	.41	.10
9	.00	.04	.24	5.4	2.1	8.0	2.6	2.2	1.2	.91	.36	.09
10	.00	.10	.24	91	1.9	6.9	2.2	2.0	1.3	.68	.39	.10
11	.00	.07	.24	44	1.9	172	2.1	2.0	1.2	.69	.42	.11
12	.00	.09	.24	48	1.9	31	2.1	2.0	1.3	.82	.42	.12
13	.00	.14	.25	11	3.6	13	2.1	3.0	1.3	.85	.42	.12
14	.00	.14	.26	5.0	29	9.7	2.2	1.8	1.6	.76	.45	.13
15	.00	.09	.25	5.0	13	7.6	2.3	1.4	1.8	.79	.44	.15
16	.00	.12	.25	5.3	3.7	6.6	13	1.5	6.4	.70	.44	.17
17	.00	.16	.25	3.9	2.9	5.9	3.7	1.2	4.3	.56	.44	.22
18	.00	.19	.26	2.8	2.6	5.6	22	1.2	1.6	.53	.47	.20
19	.00	.23	.25	2.5	2.5	5.2	8.5	1.1	1.3	.46	.44	.22
20	.00	.22	.26	2.3	2.1	4.9	3.6	1.2	1.2	.58	.41	.23
21	.01	.20	.26	7.2	2.0	12	3.2	1.3	1.1	.69	.39	.24
22	.04	.19	.27	2.8	2.1	6.3	2.5	1.4	1.1	.67	.38	.26
23	.04	.19	.27	2.8	2.1	19	2.0	1.5	1.1	.69	.37	.27
24	.04	.18	.40	11	2.1	8.6	1.9	1.8	1.1	.73	.35	.28
25	.05	.17	.57	32	1.9	5.7	1.9	1.6	.97	.79	.33	.29
26	.05	.20	.59	29	2.0	4.9	2.0	1.6	.96	.77	.32	.30
27	.05	.22	.59	6.0	2.0	4.5	2.1	1.5	.84	.72	.30	.31
28	.04	.24	.59	4.5	1.9	4.3	2.1	1.5	.82	.61	.27	.30
29	.04	.26	.59	3.8	---	3.9	2.0	1.6	.77	.69	.25	.31
30	.04	.26	.57	3.2	---	3.6	2.0	1.6	.69	.69	.22	.31
31	.03	---	.51	2.9	---	3.3	---	1.5	---	.69	.20	---
TOTAL	0.48	3.97	10.30	572.86	101.5	739.0	111.9	54.0	44.95	22.56	12.57	5.93
MEAN	.015	.13	.33	18.5	3.62	23.8	3.73	1.74	1.50	.73	.41	.20
MAX	.05	.26	.59	129	29	256	22	3.0	6.4	.94	.56	.31
MIN	.00	.03	.24	.51	1.9	1.9	1.9	1.1	.69	.46	.20	.09
AC-FT	1.0	7.9	20	1140	201	1470	222	107	89	45	25	12

SANTA MARGARITA RIVER BASIN

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11045300 FALLBROOK CREEK NEAR FALLBROOK, 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	.12	.34	.47	9.68	4.51	13.5	2.82	1.26	.92	.41	.22	.099
MAX	.23	.55	.62	18.5	5.39	23.8	3.73	1.74	1.50	.73	.41	.20
(WY)	1994	1994	1994	1995	1994	1995	1995	1995	1995	1995	1995	1995
MIN	.015	.13	.33	.87	3.62	3.09	1.92	.78	.34	.087	.036	.001
(WY)	1995	1995	1995	1994	1995	1994	1994	1994	1994	1994	1994	1994

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR				FOR 1995 WATER YEAR				WATER YEARS 1994 - 1995			
ANNUAL TOTAL	384.19				1680.02							
ANNUAL MEAN	1.05				4.60				2.87			
HIGHEST ANNUAL MEAN									4.60			
LOWEST ANNUAL MEAN									1.13			
HIGHEST DAILY MEAN	33				256				256			
LOWEST DAILY MEAN	.00				.00				.00			
ANNUAL SEVEN-DAY MINIMUM	.00				.00				.00			
INSTANTANEOUS PEAK FLOW					782				782			
INSTANTANEOUS PEAK STAGE					8.92				8.92			
ANNUAL RUNOFF (AC-FT)	762				3330				2080			
10 PERCENT EXCEEDS	1.3				5.9				3.7			
50 PERCENT EXCEEDS	.27				.82				.61			
90 PERCENT EXCEEDS	.00				.05				.03			

11046000 SANTA MARGARITA RIVER AT YSIDORA, CA

LOCATION.--Lat 33°18'40", long 117°20'47", in NW 1/4 NW 1/4 sec.18, T.10 S., R.4 W., San Diego County, Hydrologic Unit 18070302, on Camp Joseph H. Pendleton Naval Reservation, on right bank upstream side of Basilone Road Bridge, 7.9 mi upstream from mouth, and 5.2 mi upstream from Ysidora.

DRAINAGE AREA.--723 mi².

PERIOD OF RECORD.--February 1923 to current year. Low-flow records not equivalent prior to Dec. 10, 1980, due to installation of conservation ponds above downstream site.

REVISED RECORDS.--WDR CA-87-1: Drainage area.

GAGE.--Water-stage recorder. Elevation of gage is 75 ft above sea level, from topographic map. February 1923 to Feb. 16, 1927, at site 4.4 mi downstream at different datum (destroyed by flood). Feb. 17, 1927, to Feb. 1, 1931, no gage in operation; records based on discharge measurements. Feb. 2, 1931, to Feb. 24, 1970, at site 5.4 mi downstream at different datum; Feb. 25, 1970, to Dec. 10, 1980, at site 6.2 mi downstream at different datum.

REMARKS.--Records poor. Flow partly regulated by Vail Lake (station 11042510) since November 1948 and by Skinner Reservoir since 1974. See schematic diagram of Santa Margarita River basin.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 44,000 ft³/s, estimated, based on regression equation and flood routing of upstream flows, Jan. 16, 1993, gage height, 20.47 ft; no flow for all or part of most years.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 15,000 ft³/s, Jan. 10, gage height, 12.68 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	.00	.00	2.2	11	180	62	e217	e78	38	e17	5.4	.00
2	.00	.00	2.4	9.5	174	47	209	70	43	e17	4.5	.03
3	.00	.00	2.4	9.5	166	537	156	56	49	e16	3.6	5.2
4	.00	.00	2.7	1840	146	451	138	55	55	e16	3.1	6.9
5	.00	.00	2.7	2440	115	3750	e131	75	52	e15	2.5	7.1
6	.00	.00	2.7	172	90	4100	e126	80	43	e14	5.0	7.0
7	.00	.00	3.1	104	79	1090	e121	e78	28	e13	5.0	7.8
8	.00	.00	3.7	821	78	842	111	73	28	e13	3.8	8.4
9	.00	.00	5.0	298	78	761	102	69	28	e11	3.2	6.7
10	.00	.00	5.0	2810	78	662	e90	e67	23	e11	2.4	7.4
11	.00	.00	5.0	3940	74	5650	e78	e74	22	e11	5.5	6.8
12	.00	.86	5.2	1450	71	1660	72	e81	22	10	5.4	1.6
13	.00	1.1	5.6	684	69	665	104	e90	24	9.5	5.4	.35
14	.00	2.4	5.6	296	3750	562	112	e78	24	9.3	3.3	.37
15	.00	2.5	6.0	291	2270	590	90	e70	26	8.7	3.5	1.8
16	.00	1.1	5.6	322	856	501	233	e60	51	9.7	3.7	.16
17	.00	1.4	5.0	231	378	444	214	e57	54	9.6	4.0	.19
18	.00	2.8	5.0	205	263	371	359	e67	43	9.2	4.4	.16
19	.00	2.1	10	162	227	305	316	e67	36	7.2	4.5	.21
20	.00	2.3	11	145	196	250	144	e63	36	6.3	5.0	.57
21	.00	2.4	12	171	165	305	134	e63	33	6.0	5.3	1.9
22	.00	2.4	13	169	84	350	e126	e57	27	5.4	5.1	12
23	.00	1.9	12	165	93	1040	115	e54	23	4.9	4.4	16
24	.00	1.6	12	276	86	819	98	e63	e21	4.5	8.9	8.6
25	.00	1.6	15	1540	76	416	96	e60	e21	5.9	10	.00
26	.00	1.8	23	1480	53	325	75	54	e21	7.1	11	.00
27	.00	2.1	26	459	61	283	63	50	e20	7.1	9.7	.00
28	.00	2.1	21	300	71	e250	75	45	e20	6.1	2.5	.00
29	.00	2.1	17	228	---	e236	92	37	e18	6.2	.00	.00
30	.00	2.1	16	181	---	e228	e86	31	e17	6.7	.00	.00
31	.00	---	13	182	---	e221	---	30	---	5.8	.00	---
TOTAL	0.00	36.66	275.9	21392.0	10027	27773	4083	1952	946	299.2	140.10	107.24
MEAN	.000	1.22	8.90	690	358	896	136	63.0	31.5	9.65	4.52	3.57
MAX	.00	2.8	26	3940	3750	5650	359	90	55	17	11	16
MIN	.00	.00	2.2	9.5	53	47	63	30	17	4.5	.00	.00
AC-FT	.00	73	547	42430	19890	55090	8100	3870	1880	593	278	213

e Estimated.

SANTA MARGARITA RIVER BASIN

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11046000 SANTA MARGARITA RIVER AT YSIDORA, CA--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1923 - 1948, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	1.31	6.31	30.9	58.5	152	190	58.9	11.8	3.21	.54	.29	.88
MAX	13.3	65.8	141	532	1002	1730	465	101	28.7	3.15	2.30	13.5
(WY)	1942	1945	1941	1943	1937	1938	1941	1941	1941	1936	1935	1939
MIN	.000	.000	.000	.000	1.32	1.18	1.33	.000	.000	.000	.000	.000
(WY)	1924	1924	1948	1948	1925	1925	1925	1948	1923	1923	1923	1923

SUMMARY STATISTICS

WATER YEARS 1923 - 1948

ANNUAL MEAN	43.3	
HIGHEST ANNUAL MEAN	169	1938
LOWEST ANNUAL MEAN	.77	1948
HIGHEST DAILY MEAN	15500	Mar 3 1938
LOWEST DAILY MEAN	.00	May 11 1923
ANNUAL SEVEN-DAY MINIMUM	.00	May 11 1923
INSTANTANEOUS PEAK FLOW	33600	Feb 16 1927
INSTANTANEOUS PEAK STAGE	18.00	Feb 16 1927
ANNUAL RUNOFF (AC-FT)	31390	
10 PERCENT EXCEEDS	53	
50 PERCENT EXCEEDS	1.6	
90 PERCENT EXCEEDS	.00	

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1949 - 1980, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	.007	1.31	4.30	69.8	153	84.3	26.3	3.84	.65	.17	.036	.030
MAX	.23	41.7	71.7	749	2249	1071	379	52.7	12.1	3.14	.80	.67
(WY)	1970	1966	1967	1978	1980	1978	1958	1980	1979	1979	1980	1980
MIN	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
(WY)	1949	1949	1949	1949	1950	1950	1949	1949	1949	1949	1949	1949

SUMMARY STATISTICS

WATER YEARS 1949 - 1980

ANNUAL MEAN	27.9	
HIGHEST ANNUAL MEAN	282	1980
LOWEST ANNUAL MEAN	.000	1950
HIGHEST DAILY MEAN	18000	Feb 21 1980
LOWEST DAILY MEAN	.00	Oct 1 1948
ANNUAL SEVEN-DAY MINIMUM	.00	Oct 1 1948
INSTANTANEOUS PEAK FLOW	24000	Feb 18 1980
INSTANTANEOUS PEAK STAGE	18.80	Feb 18 1980
ANNUAL RUNOFF (AC-FT)	20250	
10 PERCENT EXCEEDS	4.4	
50 PERCENT EXCEEDS	.00	
90 PERCENT EXCEEDS	.00	

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	6.04	15.9	30.5	225	167	213	51.4	23.5	10.4	3.25	3.30	1.49
MAX	39.3	62.0	124	2261	1296	896	202	89.1	31.5	9.69	31.6	5.19
(WY)	1984	1984	1984	1993	1993	1995	1983	1983	1995	1983	1983	1993
MIN	.000	.000	.013	4.74	8.27	3.85	4.16	1.58	.000	.000	.000	.000
(WY)	1982	1985	1990	1991	1989	1987	1984	1984	1984	1981	1981	1981

SUMMARY STATISTICS

FOR 1994 CALENDAR YEAR

FOR 1995 WATER YEAR

WATER YEARS 1981 - 1995

ANNUAL TOTAL	8681.01	67032.10	
ANNUAL MEAN	23.8	184	62.3
HIGHEST ANNUAL MEAN			337
LOWEST ANNUAL MEAN			4.59
HIGHEST DAILY MEAN	730	Feb 8	5650
LOWEST DAILY MEAN	.00	Jul 28	.00
ANNUAL SEVEN-DAY MINIMUM	.00	Jul 28	.00
INSTANTANEOUS PEAK FLOW			15000
INSTANTANEOUS PEAK STAGE			12.68
ANNUAL RUNOFF (AC-FT)	17220	133000	45160
10 PERCENT EXCEEDS	38	323	75
50 PERCENT EXCEEDS	8.2	17	7.4
90 PERCENT EXCEEDS	.00	.00	.00

SANTA MARGARITA RIVER BASIN

11046050 SANTA MARGARITA RIVER AT MOUTH, NEAR OCEANSIDE, CA

LOCATION.--Lat 33°14'08", long 117°24'27", in SW 1/4 NE 1/4 sec.9, T.11 S., R.5 W., San Diego County, Hydrologic Unit 18070302, on Camp Joseph H. Pendleton Naval Reservation, on right bank 300 ft downstream from bridge on Interstate Highway 5, 0.5 mi upstream from mouth, and 3.5 mi northwest of Oceanside.

DRAINAGE AREA.--744 mi².

GAGE-HEIGHT RECORDS

PERIOD OF RECORD.--October 1989 to current year. Unpublished records for water year 1989 available in files of the U.S. Geological Survey.

GAGE.--Water-stage recorder. Datum of gage is 2.78 ft below sea level.

REMARKS.--Gage height generally affected by tide. See schematic diagram of Santa Margarita River basin.

EXTREMES FOR PERIOD OF RECORD.--Maximum gage height, 15.10 ft, from floodmarks and hydrographers' notes, Jan. 16, 1993; minimum recorded gage height, 2.64 ft, but known to have been lower than elevation of sensor at times on several days during Spring of 1993.

EXTREMES FOR CURRENT YEAR.--Maximum gage height, 7.90 ft, Jan. 30; minimum gage height, 3.13 ft, Mar. 3.

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	5.71	3.81	6.56	3.85	7.33	3.96	7.68	3.64	7.19	3.41	6.58	3.19
2	5.93	3.86	7.34	3.92	7.70	3.97	7.58	3.64	6.60	3.34	6.28	3.14
3	6.02	3.93	7.70	3.95	7.68	3.92	7.31	3.66	6.13	3.38	6.01	3.13
4	6.56	3.96	7.34	3.85	7.77	3.90	6.82	3.76	5.99	3.32	5.86	3.37
5	7.15	4.02	7.20	3.77	7.38	3.86	7.87	4.42	6.21	3.33	6.71	3.40
6	7.17	3.96	6.98	3.78	6.65	3.79	5.66	3.82	5.61	3.30	6.98	5.14
7	7.10	3.93	6.37	3.76	5.68	3.74	5.42	3.70	5.87	3.54	5.78	4.63
8	6.79	3.86	5.68	3.74	4.84	3.66	5.79	4.35	5.88	3.32	5.40	4.44
9	6.39	3.82	5.07	3.73	5.07	3.62	5.65	3.85	5.89	3.28	5.02	4.25
10	6.07	3.85	4.93	3.73	5.04	3.58	6.32	3.68	6.47	3.25	5.19	4.12
11	5.63	3.85	5.50	3.78	5.38	3.56	7.39	5.24	6.21	3.25	7.15	4.69
12	5.53	3.84	5.63	3.82	5.75	3.56	6.46	4.86	6.53	3.24	6.40	4.99
13	5.79	3.90	5.68	3.80	5.87	3.57	6.37	4.18	6.92	3.35	6.10	4.66
14	5.84	3.96	5.70	3.73	6.09	3.67	6.39	3.90	7.73	3.48	6.04	4.46
15	6.27	4.06	6.09	3.73	6.17	3.67	6.67	3.77	7.01	4.33	6.27	4.35
16	6.00	4.04	6.44	3.82	6.25	3.62	6.96	3.70	6.43	3.90	6.25	4.26
17	5.91	3.93	6.55	4.01	6.53	3.65	6.65	3.57	5.95	3.70	6.12	4.18
18	6.04	3.91	6.89	3.96	6.62	3.68	6.05	3.54	5.62	3.58	6.15	4.08
19	6.13	3.89	6.14	3.83	6.61	3.73	6.00	3.50	5.66	3.49	6.38	4.04
20	6.03	3.86	5.76	3.66	6.39	3.76	5.59	3.49	5.79	3.42	6.34	3.96
21	5.99	3.81	5.76	3.66	6.05	3.78	5.37	3.56	5.77	3.39	6.22	3.94
22	5.91	3.77	5.44	3.69	6.05	4.07	5.53	3.50	5.72	3.37	6.07	3.96
23	5.54	3.72	4.97	3.66	5.28	4.17	6.04	3.69	5.78	3.32	5.67	3.91
24	5.23	3.64	4.59	3.72	4.87	4.14	6.29	3.76	5.96	3.29	5.69	4.24
25	5.06	3.69	4.25	3.70	5.14	4.14	7.13	4.18	6.26	3.25	5.47	4.07
26	4.75	3.70	4.65	3.68	5.76	4.28	7.24	4.32	6.71	3.25	5.31	3.97
27	4.37	3.77	5.25	3.76	5.92	4.27	6.85	3.91	6.73	3.23	5.46	3.91
28	4.66	4.28	5.65	3.71	6.39	4.24	6.63	3.70	6.65	3.22	5.62	3.86
29	4.95	4.24	6.17	3.76	7.22	3.90	7.18	3.58	---	---	5.73	3.82
30	5.39	4.01	6.93	3.87	7.32	3.73	7.90	3.49	---	---	5.74	3.78
31	5.91	3.89	---	---	7.58	3.65	7.64	3.53	---	---	5.75	3.73
MONTH	7.17	3.64	7.70	3.66	7.77	3.56	7.90	3.49	7.73	3.22	7.15	3.13

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GAGE HEIGHT, FEET, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

[illegible]

11046050 SANTA MARGARITA RIVER AT MOUTH NEAR OCEANSIDE, CA--Continued

WATER-QUALITY RECORDS

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: October 1993 to current year.

pH: October 1993 to current year.

WATER TEMPERATURE: October 1993 to current year.

DISSOLVED OXYGEN: October 1993 to current year.

INSTRUMENTATION.--Water-quality monitor since October 1993.

REMARKS.--Interruptions in record at times due to malfunction of recording equipment.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum recorded, 51,900 microsiemens, Dec. 17, 18, 1994; minimum recorded, 234 microsiemens Mar. 5, 1995.

pH: Maximum recorded, 9.1 standard units, Apr. 16, 1995; minimum recorded, 6.2 standard units, Nov. 26, 1993.

WATER TEMPERATURE: Maximum recorded, 32.0°C, July 29, 1995; minimum recorded, 5.0°C, Nov. 21, 1994.

DISSOLVED OXYGEN: Maximum recorded, 19.0 mg/l, Jan. 18, 1994; minimum recorded, 0.0 mg/l, May 19, 1994, Aug. 29, 1994.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum recorded, 51,900 microsiemens, Dec. 17, 18; minimum recorded, 234 microsiemens, Mar. 5.

pH: Maximum recorded, 9.1 standard units, Apr. 16; minimum recorded, 6.4 standard units, May 12.

WATER TEMPERATURE: Maximum recorded, 32.0°C, July 29; minimum recorded, 5.0°C, Nov. 21.

DISSOLVED OXYGEN: Maximum recorded, 13.9 mg/l, Aug. 19; minimum recorded, 0.7 mg/l, Oct. 28.

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	---	---	49300	44600	51200	45800	50400	43600	---	---	---	---
2	---	---	49300	44500	51200	46100	50200	45100	---	---	---	---
3	---	---	49300	45300	51200	46700	50000	45200	---	---	---	---
4	---	---	48300	41600	51300	47800	50900	3650	---	---	---	---
5	---	---	48100	40500	51200	45500	4850	540	---	---	4820	234
6	---	---	48600	38700	51300	46700	1380	800	---	---	431	244
7	---	---	48400	39700	50400	45500	3730	1380	---	---	549	431
8	---	---	46400	40600	49500	46200	1840	630	---	---	617	549
9	---	---	46400	40700	50700	43000	1080	740	---	---	690	616
10	---	---	45200	35300	50700	45100	2530	370	---	---	731	690
11	---	---	44400	35300	47400	43800	440	330	---	---	731	312
12	---	---	46000	36200	50200	43700	580	410	---	---	523	372
13	48800	39000	47000	36200	50400	43800	730	480	---	---	623	523
14	49200	44500	48000	40900	50800	44400	910	730	---	---	684	623
15	49500	42900	48600	39400	51700	46200	---	---	510	302	725	684
16	48700	41500	47600	43000	51800	45700	---	---	647	510	755	715
17	46900	39600	48500	38300	51900	45300	---	---	---	---	776	755
18	47300	40900	48500	33900	51900	45800	---	---	---	---	847	776
19	48600	40700	46500	35300	51300	45800	---	---	---	---	1610	797
20	48700	40400	45300	11600	49700	44600	---	---	---	---	2810	838
21	49200	39500	---	---	49200	44600	---	---	---	---	2810	759
22	48500	31600	---	---	49800	44800	---	---	---	---	789	709
23	---	---	---	---	48000	45600	---	---	---	---	820	510
24	---	---	47000	43200	48900	42600	---	---	---	---	691	491
25	---	---	45000	40100	49300	42600	---	---	---	---	772	691
26	43500	38600	48600	40100	49900	43800	631	443	---	---	813	772
27	43700	39600	48600	42500	49900	44900	---	---	---	---	853	813
28	44100	42600	47700	43100	49800	44000	---	---	---	---	874	833
29	45700	40400	48700	43400	49900	44900	---	---	---	---	895	864
30	48600	39700	51100	44700	50400	43300	---	---	---	---	1180	895
31	49300	39500	---	---	50500	44500	---	---	---	---	1510	916
MONTH	---	---	---	---	51900	42600	---	---	---	---	---	---

SANTA MARGARITA RIVER BASIN

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11046050 SANTA MARGARITA RIVER AT MOUTH NEAR OCEANSIDE, 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	1600	946	---	---	---	---	45700	1870	43700	16100	48200	14100
2	1830	947	---	---	---	---	42700	1190	---	---	48000	25500
3	1830	958	---	---	---	---	12300	1560	---	---	45600	8540
4	999	978	---	---	---	---	---	---	---	---	47900	24800
5	1010	979	---	---	---	---	---	---	---	---	49200	30700
6	1010	990	---	---	---	---	---	---	---	---	49300	37400
7	1030	1000	---	---	---	---	---	---	41700	23600	47200	41900
8	1040	1010	---	---	---	---	---	---	50700	7620	47600	43500
9	1050	1020	---	---	---	---	47700	1160	50300	20900	48200	37700
10	1070	1020	---	---	---	---	47700	2980	48900	23400	48900	37900
11	1970	1020	---	---	---	---	47200	1850	50000	24800	48900	35300
12	---	---	---	---	---	---	46700	6750	50300	13600	47200	36400
13	---	---	---	---	---	---	50400	2780	50300	27100	45000	36700
14	---	---	---	---	---	---	---	---	48900	24300	45000	34800
15	---	---	---	---	---	---	---	---	40500	6790	44200	30800
16	---	---	---	---	47800	1430	---	---	---	---	34300	22900
17	---	---	---	---	43200	1320	---	---	46300	6360	35900	11800
18	---	---	---	---	24700	1380	---	---	44700	6360	44200	24400
19	4200	635	---	---	3370	1640	---	---	45300	24700	47500	42800
20	---	---	---	---	40000	1940	---	---	45100	24700	48100	36100
21	---	---	---	---	44700	1170	---	---	49900	13600	49800	42600
22	---	---	---	---	46300	875	---	---	50600	6640	49800	44700
23	---	---	---	---	46400	677	---	---	49100	23200	49800	45500
24	---	---	---	---	46300	621	---	---	46600	8910	49400	45300
25	---	---	---	---	44400	655	---	---	46800	12100	49500	45300
26	---	---	---	---	42500	1010	---	---	47800	11400	48800	42600
27	---	---	---	---	43700	1130	---	---	47800	11700	49400	45100
28	---	---	---	---	45600	1260	49200	6690	47600	10600	48300	39500
29	---	---	---	---	46500	1230	49500	5470	48300	12100	47000	39500
30	---	---	---	---	46500	2460	---	---	46600	13700	47800	45400
31	---	---	---	---	---	---	49100	4040	46600	14100	---	---
MONTH	---	---	---	---	---	---	---	---	---	---	49800	8540

PH, WATER, WHOLE, FIELD, STANDARD UNITS, 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	---	---	8.5	8.0	8.3	7.8	8.4	7.8	8.4	8.0	8.1	7.9
2	---	---	8.4	8.1	8.3	7.9	8.4	7.9	8.3	8.1	8.1	7.9
3	---	---	8.4	8.1	8.3	7.9	8.4	7.9	8.3	8.1	8.2	7.9
4	---	---	8.5	8.0	8.3	7.8	8.3	7.6	8.2	8.1	8.0	7.8
5	---	---	8.5	8.1	8.3	7.9	8.5	8.0	8.3	8.1	8.0	7.5
6	---	---	8.5	8.2	8.3	7.8	8.2	8.0	8.2	7.6	7.7	7.5
7	---	---	8.5	8.1	8.2	7.9	8.0	7.9	8.3	8.2	7.7	7.6
8	---	---	8.7	8.0	8.0	7.8	7.9	7.8	8.5	8.0	7.8	7.7
9	---	---	8.7	8.0	8.1	7.9	7.8	7.8	8.3	8.0	8.2	7.8
10	---	---	8.5	8.0	8.1	7.7	7.9	7.8	8.4	8.2	8.3	8.2
11	---	---	8.3	8.1	8.0	7.8	7.9	7.8	8.4	8.1	8.3	7.9
12	---	---	8.3	8.2	8.2	7.8	7.8	7.7	8.4	8.2	8.1	8.0
13	8.2	7.9	8.4	8.1	8.1	7.7	7.7	7.6	8.5	8.2	8.2	8.1
14	8.2	7.9	8.3	8.1	8.1	7.7	7.7	7.7	8.4	7.9	8.2	8.2
15	8.2	8.0	8.3	8.1	8.1	7.7	---	---	8.0	7.9	8.3	8.2
16	8.3	8.1	8.3	8.1	8.2	7.7	---	---	8.0	7.8	8.3	8.3
17	8.4	8.2	8.3	8.2	8.1	7.7	---	---	8.0	7.7	8.3	8.3
18	8.6	8.2	8.3	8.2	8.3	7.8	---	---	8.1	7.2	8.3	8.3
19	8.6	8.2	8.3	8.2	8.3	7.8	---	---	8.1	6.6	8.4	8.3
20	8.6	8.2	8.3	8.1	8.6	7.8	8.3	8.1	8.2	7.7	8.4	8.4
21	8.5	8.1	8.5	8.0	8.6	8.0	8.3	8.2	8.2	7.9	8.4	8.4
22	8.4	8.0	8.5	8.0	8.5	8.0	8.3	8.1	8.2	7.5	8.4	8.3
23	8.7	8.2	8.2	7.9	8.3	8.0	8.3	8.3	8.2	7.9	8.4	8.2
24	8.7	8.1	8.2	7.9	8.2	8.0	8.3	8.2	8.2	8.0	8.3	8.2
25	8.5	8.1	8.2	7.9	8.2	7.9	8.3	8.1	8.2	8.0	8.4	8.3
26	8.5	7.8	8.2	8.0	8.3	8.0	8.2	8.1	8.1	8.0	8.4	8.3
27	8.0	7.5	8.1	7.9	8.3	7.9	8.3	8.1	8.2	8.0	8.3	8.2
28	7.9	7.6	8.2	8.0	8.3	7.9	8.2	7.2	8.2	7.9	8.3	8.3
29	8.1	7.7	8.3	8.0	8.4	8.0	8.3	8.0	---	---	8.3	8.3
30	8.3	8.0	8.3	7.9	8.4	8.2	8.3	8.2	---	---	8.3	8.3
31	8.4	8.0	---	---	8.4	7.9	8.4	8.2	---	---	8.3	8.3
MONTH	---	---	8.7	7.9	8.6	7.7	---	---	8.5	6.6	8.4	7.5

SANTA MARGARITA RIVER BASIN

11046050 SANTA MARGARITA RIVER AT MOUTH NEAR OCEANSIDE, CA--Continued

PH, WATER, WHOLE, FIELD, STANDARD UNITS, 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	8.4	8.3	8.8	8.3	8.5	8.1	8.5	8.0	8.7	8.0	8.4	7.8
2	8.4	8.3	8.6	8.0	8.7	7.7	8.5	8.1	8.7	8.0	8.4	7.7
3	8.4	8.3	8.6	7.7	8.8	7.9	8.6	7.8	8.9	8.2	8.4	7.9
4	8.4	8.3	8.5	7.4	8.8	8.1	8.8	7.8	9.0	8.5	8.2	7.7
5	8.4	8.3	8.5	7.3	8.7	8.4	8.9	8.0	8.8	8.5	8.2	7.5
6	8.4	8.3	8.5	8.3	8.8	7.5	8.9	8.0	8.8	8.2	8.0	7.5
7	8.3	8.3	8.5	8.2	8.8	7.5	8.9	8.1	8.6	8.0	7.9	7.7
8	8.3	8.3	8.5	7.7	8.7	8.0	8.6	8.0	8.6	8.0	8.0	7.7
9	8.4	8.3	8.5	7.7	8.6	8.1	8.6	8.0	9.0	8.1	8.0	7.7
10	8.4	8.2	8.3	7.9	8.6	8.0	8.6	8.0	8.9	8.2	8.0	7.7
11	8.3	8.2	8.4	7.9	8.5	8.0	8.9	8.0	8.9	8.3	8.1	7.7
12	8.3	8.1	8.6	6.4	8.6	8.1	8.9	8.2	8.9	8.1	8.0	7.7
13	8.9	8.2	8.6	7.3	8.5	8.1	8.8	8.1	8.7	8.2	8.1	7.7
14	8.8	8.0	8.7	7.3	8.7	8.1	8.8	8.1	8.8	8.3	8.3	7.9
15	9.0	8.1	8.7	7.6	8.7	8.0	8.9	8.2	8.9	8.3	8.1	7.8
16	9.1	7.9	8.7	7.8	8.8	8.0	8.7	8.2	8.7	8.2	8.1	7.6
17	8.8	8.4	8.7	8.1	8.8	8.4	8.8	8.2	8.8	8.2	8.3	7.6
18	9.0	8.4	8.8	7.7	8.9	8.5	8.7	7.9	8.7	8.2	8.2	7.5
19	8.5	8.4	8.8	8.3	8.9	8.3	8.9	8.5	8.6	7.8	8.2	7.7
20	8.7	8.5	8.7	8.5	8.8	8.2	8.8	8.4	8.6	8.0	8.3	7.7
21	8.7	7.6	8.7	8.5	8.9	8.2	8.7	8.2	8.7	8.0	8.3	7.7
22	8.6	7.6	8.6	8.3	8.8	8.2	8.6	8.1	8.4	8.0	8.2	7.8
23	8.6	7.2	8.5	8.1	8.9	8.2	8.7	8.2	8.6	8.0	8.1	7.7
24	8.5	7.0	8.6	8.3	8.9	8.1	8.6	8.0	8.5	7.9	8.0	7.7
25	8.8	8.3	8.7	8.3	8.6	8.1	8.6	7.9	8.4	8.1	8.1	7.7
26	8.9	8.3	8.7	8.2	8.7	8.1	8.6	7.9	8.5	8.0	8.0	7.7
27	8.9	8.3	8.6	8.2	8.9	8.2	8.6	8.1	8.6	7.9	8.0	7.6
28	8.8	8.5	8.7	8.2	8.7	8.3	8.8	8.1	8.5	7.8	8.0	7.6
29	8.7	8.4	8.7	8.3	8.6	8.1	8.9	8.0	8.5	7.8	8.0	7.6
30	8.6	8.3	8.7	8.2	8.6	8.0	8.7	8.0	8.4	7.8	7.9	7.6
31	---	---	8.7	8.2	---	---	8.8	8.0	8.4	7.8	---	---
MONTH	9.1	7.0	8.8	6.4	8.9	7.5	8.9	7.8	9.0	7.8	8.4	7.5

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	---	---	19.5	16.5	13.5	12.0	13.5	12.5	16.5	10.0	15.5	13.0
2	---	---	18.5	16.5	13.0	12.5	13.0	12.0	16.5	11.5	15.0	11.0
3	---	---	17.5	15.5	13.0	11.5	13.0	12.5	17.0	10.5	16.0	14.0
4	---	---	15.5	12.5	13.0	11.5	13.0	11.5	17.0	9.5	17.0	13.5
5	---	---	15.0	11.5	14.5	13.0	12.0	10.5	17.0	12.0	17.0	15.0
6	---	---	16.0	12.0	15.5	13.5	13.0	10.0	16.5	11.5	16.5	14.0
7	---	---	15.5	11.5	15.0	13.5	12.0	10.0	16.0	12.5	17.5	13.5
8	---	---	16.0	12.0	14.0	10.5	13.0	11.5	16.0	12.5	19.0	13.5
9	---	---	17.0	12.0	12.0	9.0	15.0	12.5	16.5	11.5	18.5	13.0
10	---	---	15.5	13.0	12.0	10.5	14.5	12.5	17.0	11.5	16.5	14.0
11	---	---	15.0	12.5	11.5	9.0	13.5	12.5	17.5	12.0	14.5	13.0
12	---	---	15.0	12.5	14.0	11.0	13.5	13.0	17.0	13.0	16.5	13.0
13	22.5	19.5	15.5	12.0	15.0	12.5	15.5	13.5	14.5	11.0	18.5	13.0
14	22.0	18.5	14.5	9.0	14.5	12.0	15.5	13.0	14.0	14.0	19.5	13.5
15	21.0	18.5	14.5	9.0	14.0	12.0	---	---	16.0	13.0	20.5	14.0
16	21.5	18.0	15.0	10.5	13.5	12.0	---	---	16.0	12.0	20.0	16.0
17	20.5	16.0	14.0	10.5	13.0	11.5	---	---	16.0	13.0	18.0	16.0
18	20.0	16.0	13.0	10.5	12.5	11.0	---	---	17.0	9.5	19.5	15.5
19	19.5	16.0	12.0	7.0	13.0	12.0	---	---	17.5	10.0	18.5	16.0
20	20.0	16.0	11.5	5.5	13.5	11.5	13.0	9.0	17.5	11.0	19.0	15.5
21	20.0	15.5	11.5	5.0	12.5	10.5	13.5	10.0	18.0	12.0	17.5	14.5
22	19.0	15.5	13.0	7.0	12.5	11.5	13.5	9.0	19.5	13.0	18.0	11.5
23	19.0	14.0	12.5	8.5	13.5	12.0	13.5	12.0	16.5	14.0	15.0	12.0
24	20.5	13.5	13.0	11.0	14.0	13.5	15.0	12.5	18.5	14.0	16.5	10.5
25	20.5	16.0	14.0	11.5	14.0	13.0	13.5	12.5	17.0	14.0	17.5	9.5
26	20.5	17.5	14.0	12.5	14.0	12.0	14.0	11.5	18.0	14.0	18.0	10.0
27	19.5	17.5	13.0	11.0	14.0	12.0	13.5	11.0	17.5	14.0	19.0	10.5
28	20.0	18.5	12.5	9.0	14.0	13.0	15.0	11.0	17.0	11.5	19.5	11.0
29	20.5	19.0	13.0	9.5	14.0	12.5	15.5	12.0	---	---	19.5	11.5
30	20.0	17.5	13.5	11.0	13.5	11.0	17.0	10.5	---	---	20.5	12.0
31	19.5	17.0	---	---	13.0	12.0	16.5	9.5	---	---	21.0	11.5
MONTH	---	---	19.5	5.0	15.5	9.0	---	---	19.5	9.5	21.0	9.5

SANTA MARGARITA RIVER BASIN

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11046050 SANTA MARGARITA RIVER AT MOUTH NEAR OCEANSIDE, 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	21.0	11.5	23.0	17.0	20.0	15.0	31.0	19.5	26.5	21.5	26.5	23.0
2	22.0	14.0	20.5	16.0	23.5	16.5	30.0	17.0	27.0	21.5	28.5	22.5
3	23.0	13.5	20.0	15.5	25.5	16.0	28.0	19.5	28.5	21.0	30.0	23.0
4	23.5	14.0	20.0	14.0	25.5	16.5	27.5	18.5	29.5	21.0	30.0	24.0
5	23.0	16.0	18.0	11.0	22.5	16.5	26.5	19.5	29.5	21.0	30.5	23.5
6	20.0	15.0	24.5	10.5	28.5	16.0	26.0	19.5	27.5	21.5	29.5	23.5
7	22.5	14.0	25.0	13.0	27.5	16.0	28.5	18.5	29.5	20.0	30.0	23.5
8	23.5	15.5	22.0	13.5	27.0	14.0	27.5	19.5	27.0	20.5	29.5	23.5
9	22.0	13.5	23.5	12.0	22.5	13.0	25.5	20.0	29.5	22.5	28.5	23.5
10	22.0	11.5	20.5	12.0	24.0	15.0	26.0	19.0	29.5	22.0	27.0	23.0
11	23.5	11.0	19.0	15.0	24.0	16.0	30.0	17.0	30.0	20.5	27.5	22.0
12	23.5	11.5	22.5	14.5	23.5	16.5	30.5	18.0	30.5	20.5	28.0	22.5
13	23.0	13.5	21.5	15.0	22.5	17.5	30.5	17.5	29.5	22.0	28.0	23.0
14	19.5	13.0	20.0	13.0	24.0	16.5	29.5	18.0	29.5	23.0	27.0	24.0
15	21.0	11.0	22.5	13.5	25.0	16.0	27.0	18.0	29.0	23.0	26.0	23.0
16	18.0	10.5	23.0	13.5	23.0	16.0	27.5	20.0	28.5	22.0	25.0	22.5
17	20.0	12.5	21.5	14.5	27.5	16.0	28.0	20.0	29.0	21.5	25.5	22.0
18	16.5	13.0	24.0	16.5	28.5	16.0	28.0	18.0	28.0	21.0	28.0	22.5
19	19.5	12.0	26.0	16.0	30.0	18.0	27.0	18.5	29.0	19.0	26.5	22.5
20	21.0	11.5	21.0	15.5	29.5	18.0	30.0	17.5	28.0	21.5	27.0	23.5
21	22.5	11.0	23.5	15.0	29.0	17.0	29.5	16.0	29.5	22.0	26.0	21.5
22	25.0	11.5	23.0	15.5	28.0	18.0	29.0	19.0	27.5	22.0	25.5	20.5
23	24.0	13.0	20.5	14.0	23.5	18.0	26.5	19.5	27.0	23.0	24.5	20.5
24	24.0	13.0	18.5	13.5	22.5	19.0	26.5	20.0	28.0	22.0	25.5	20.5
25	19.5	14.5	20.5	15.0	23.0	19.5	26.0	19.5	28.5	19.5	25.5	21.0
26	20.0	15.0	22.0	15.0	26.5	18.5	26.0	19.5	28.0	18.0	23.5	21.0
27	20.0	16.0	22.0	15.5	27.5	19.5	28.0	20.0	28.5	19.5	24.5	20.5
28	24.0	15.0	21.0	16.0	30.0	20.0	31.5	20.0	28.5	19.5	24.0	21.5
29	24.5	13.5	22.5	16.0	30.5	19.5	32.0	21.5	28.0	21.0	24.5	21.0
30	23.0	16.5	25.0	17.0	31.0	20.0	28.0	21.5	29.0	21.5	25.0	20.5
31	---	---	21.5	17.0	---	---	27.0	21.5	27.5	23.0	---	---
MONTH	25.0	10.5	26.0	10.5	31.0	13.0	32.0	16.0	30.5	18.0	30.5	20.5

OXYGEN, DISSOLVED (MG/L), 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	---	---	12.6	4.9	7.2	4.3	7.2	3.7	11.5	8.8	12.3	9.5
2	---	---	9.4	5.5	7.3	3.0	7.1	4.3	11.2	9.0	12.8	10.3
3	---	---	10.4	5.6	7.6	3.0	7.0	4.3	---	---	12.2	10.4
4	---	---	11.2	5.6	7.6	4.1	10.1	4.2	---	---	12.1	10.3
5	---	---	11.2	6.1	7.4	3.8	9.9	7.8	11.4	8.4	12.0	10.4
6	---	---	11.1	6.0	7.4	3.4	8.5	6.7	11.6	8.4	10.7	8.6
7	---	---	11.3	5.7	6.8	3.5	9.1	6.7	11.3	8.6	10.6	7.2
8	---	---	9.7	4.4	6.7	4.7	9.5	8.2	11.2	8.7	9.4	7.2
9	---	---	9.6	3.4	6.9	5.0	8.7	7.9	11.7	8.4	10.6	7.8
10	---	---	9.6	3.3	6.3	4.2	9.0	8.0	11.7	8.5	10.0	9.5
11	---	---	8.6	6.2	6.3	4.4	9.0	5.8	11.4	8.0	11.0	10.0
12	---	---	9.2	6.6	9.3	4.3	7.3	5.9	11.5	7.9	10.3	9.2
13	6.4	3.9	10.5	5.6	8.4	4.3	6.5	4.9	11.1	7.9	10.2	8.3
14	7.0	3.8	11.2	6.3	8.2	4.0	7.4	3.8	10.4	9.5	10.2	8.8
15	8.2	4.8	10.1	5.6	9.5	4.0	---	---	10.2	9.3	9.9	7.9
16	9.4	3.5	10.6	6.1	10.3	4.3	---	---	10.8	9.8	9.7	8.6
17	10.3	4.5	11.1	5.6	10.7	4.2	---	---	11.0	9.9	9.4	8.5
18	11.2	5.0	11.6	8.7	13.1	6.4	---	---	12.2	9.9	9.7	8.0
19	11.9	5.0	10.9	7.8	12.4	5.0	---	---	12.6	9.6	9.5	8.4
20	11.3	3.5	11.1	8.6	12.6	4.4	10.6	8.6	12.4	9.6	9.9	9.0
21	11.1	3.9	11.1	8.2	11.5	7.3	9.6	8.5	12.2	9.8	10.0	9.4
22	9.0	2.4	11.1	7.9	11.4	4.7	10.7	8.6	12.0	9.7	10.7	9.1
23	7.0	2.8	10.8	6.9	8.3	3.5	9.1	8.1	11.8	9.7	10.6	8.8
24	10.0	3.8	6.9	3.5	5.7	3.5	8.8	8.4	11.8	8.5	11.0	8.9
25	8.8	3.6	6.7	3.2	5.1	2.8	9.5	7.9	11.9	9.6	9.9	6.0
26	8.0	2.2	7.3	4.1	6.2	3.2	9.9	9.3	11.9	9.9	8.9	5.5
27	6.1	.9	6.4	4.2	6.6	5.7	9.8	9.1	11.8	9.4	9.2	5.6
28	5.8	.7	6.7	5.0	6.6	1.7	10.7	8.7	12.6	9.4	9.2	7.5
29	7.3	1.1	7.5	5.0	9.9	4.2	10.7	8.7	---	---	9.6	6.4
30	9.0	2.4	6.8	4.3	9.7	5.2	11.5	8.3	---	---	9.8	6.4
31	10.3	2.8	---	---	7.4	3.7	11.8	8.7	---	---	10.0	7.2
MONTH	---	---	12.6	3.2	13.1	1.7	---	---	---	---	12.8	5.5

OXYGEN, DISSOLVED (MG/L), 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	9.9	7.4	10.2	6.9	10.7	6.4	---	---	---	---	4.3	2.0
2	9.7	6.9	10.7	6.7	12.1	6.4	---	---	---	---	2.8	2.0
3	9.5	5.0	10.8	6.6	10.9	6.6	---	---	---	---	5.7	2.1
4	9.1	6.2	10.9	6.6	10.8	7.1	---	---	---	---	2.4	2.1
5	8.8	5.6	11.6	8.6	10.9	7.1	---	---	---	---	2.6	2.1
6	9.0	7.1	11.8	7.6	10.5	8.2	---	---	---	---	2.8	2.2
7	8.8	6.1	11.1	7.6	10.5	7.6	---	---	---	---	3.7	2.3
8	8.7	6.1	12.1	8.1	10.9	7.1	---	---	---	---	2.9	2.3
9	9.2	7.5	10.9	7.9	10.8	7.0	---	---	---	---	2.9	2.4
10	9.7	7.6	11.4	7.4	10.6	7.0	---	---	---	---	2.7	2.5
11	9.6	7.0	10.5	7.3	11.5	7.0	---	---	---	---	2.7	2.6
12	9.6	7.0	10.7	7.1	10.4	6.9	---	---	---	---	3.7	2.6
13	9.6	7.4	10.6	7.1	10.2	6.2	---	---	---	---	3.2	2.7
14	11.4	8.1	11.3	7.8	13.1	6.2	---	---	---	---	10.3	2.8
15	12.0	8.2	11.2	7.5	11.5	6.0	---	---	---	---	9.8	3.0
16	12.1	8.2	11.2	7.5	---	---	---	---	---	---	6.8	2.8
17	10.2	7.1	11.0	7.2	---	---	---	---	---	---	12.1	2.8
18	9.5	7.1	10.6	7.2	---	---	---	---	---	---	7.7	2.7
19	9.8	7.9	10.6	7.2	---	---	---	---	13.9	1.2	9.2	2.7
20	10.7	8.8	10.8	8.0	---	---	---	---	13.3	.8	10.4	2.7
21	11.2	8.2	10.9	8.4	---	---	---	---	9.3	.9	12.5	2.6
22	11.2	7.2	10.8	8.8	---	---	---	---	12.8	1.3	10.4	2.6
23	11.3	7.6	11.2	8.6	---	---	---	---	11.8	1.3	8.4	2.6
24	11.1	7.7	11.2	8.3	---	---	---	---	9.1	1.5	7.8	2.4
25	11.0	7.4	11.7	7.8	---	---	---	---	7.7	1.6	9.8	2.4
26	10.7	7.3	12.2	7.5	---	---	---	---	8.2	1.5	8.5	2.4
27	10.4	7.2	11.3	7.5	---	---	---	---	12.8	1.6	7.9	2.3
28	10.6	7.2	11.0	7.7	---	---	---	---	12.5	1.7	9.4	2.3
29	11.1	7.1	10.8	7.4	---	---	---	---	8.6	1.8	8.6	2.2
30	10.4	7.0	11.0	7.0	---	---	---	---	11.1	1.8	9.0	2.2
31	---	---	11.1	7.0	---	---	---	---	8.5	1.9	---	---
MONTH	12.1	5.0	12.2	6.6	---	---	---	---	---	---	12.5	2.0

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WATER-QUALITY RECORDS

[illegible]

SANTA MARGARITA RIVER BASIN

331346117243401 SANTA MARGARITA RIVER ESTUARY NEAR OCEANSIDE, CA

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	---	---	---	---	---	---	---	---	---	---	50900	48900
2	---	---	---	---	---	---	---	---	---	---	50300	48500
3	---	---	---	---	---	---	---	---	---	---	50300	16000
4	---	---	---	---	---	---	---	---	---	---	50600	49200
5	---	---	---	---	---	---	---	---	---	---	50900	49100
6	---	---	---	---	---	---	---	---	---	---	51100	49100
7	---	---	---	---	---	---	---	---	---	---	51200	48400
8	---	---	---	---	---	---	---	---	---	---	51300	49600
9	---	---	---	---	---	---	---	---	50500	48500	51400	49300
10	---	---	---	---	---	---	---	---	50900	48500	51300	49300
11	---	---	---	---	---	---	---	---	51300	48900	51400	49800
12	---	---	---	---	---	---	---	---	51000	48300	51400	50100
13	---	---	---	---	---	---	---	---	50500	48700	50500	48700
14	---	---	---	---	---	---	---	---	50000	48700	49700	47600
15	---	---	---	---	47900	42500	---	---	---	---	49200	46500
16	---	---	---	---	47000	35300	---	---	---	---	48900	47400
17	---	---	---	---	44900	37800	---	---	---	---	48800	47400
18	---	---	---	---	40000	32100	---	---	---	---	48900	42600
19	---	---	---	---	36100	23900	---	---	---	---	48200	45800
20	---	---	---	---	39900	34900	---	---	---	---	48500	47500
21	---	---	---	---	42800	39300	---	---	51400	49400	48800	47800
22	---	---	---	---	---	---	---	---	51400	49600	49200	48400
23	---	---	---	---	42100	9720	---	---	50800	15100	49800	47900
24	---	---	---	---	45100	9220	---	---	50800	14900	49800	47900
25	---	---	---	---	45100	7840	---	---	50900	14500	49800	48900
26	---	---	---	---	45900	11000	---	---	50800	14300	50500	49000
27	---	---	---	---	45900	12000	---	---	50900	15600	50400	49100
28	---	---	---	---	45600	13500	---	---	50900	48100	50300	48000
29	---	---	---	---	44200	36400	---	---	50700	49300	49900	48400
30	---	---	---	---	42000	14100	---	---	50600	49100	50100	48200
31	---	---	---	---	---	---	---	---	50600	49400	---	---
MONTH	---	---	---	---	---	---	---	---	---	---	51400	16000

PH, WATER, WHOLE, FIELD, STANDARD UNITS, 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	---	---	8.3	7.8	8.1	8.0	8.1	7.8	8.1	7.6	8.0	7.3
2	---	---	8.1	7.1	8.3	8.0	8.1	7.9	8.1	7.7	8.0	7.8
3	---	---	8.0	7.1	8.1	7.9	8.3	7.9	8.3	7.9	8.0	7.8
4	---	---	8.0	7.4	8.1	7.8	8.1	7.8	8.3	7.9	8.1	7.9
5	---	---	8.0	7.5	8.1	7.7	7.9	7.5	8.3	7.9	8.0	7.6
6	---	---	8.1	7.1	8.1	7.9	8.1	7.6	8.2	7.8	8.0	7.3
7	---	---	8.0	7.8	8.1	7.8	8.1	7.6	8.2	7.9	7.6	7.0
8	---	---	8.1	7.6	8.1	7.9	8.0	7.4	8.3	7.8	7.7	6.6
9	---	---	8.2	7.6	8.4	8.0	7.9	7.6	8.3	7.5	7.8	6.5
10	---	---	8.2	7.9	8.7	8.0	8.0	7.3	8.3	7.6	7.8	6.9
11	---	---	8.2	7.1	8.5	8.1	7.9	7.5	8.2	7.5	8.0	7.3
12	---	---	8.2	7.6	8.3	8.1	8.0	7.5	8.2	7.5	7.8	6.1
13	---	---	8.2	7.7	8.3	8.0	8.0	7.5	8.2	8.0	7.8	6.5
14	8.2	7.9	8.1	6.6	8.3	8.0	8.0	7.3	8.2	7.6	8.4	7.5
15	8.2	7.9	8.1	6.7	8.3	8.1	---	---	7.8	7.6	8.4	7.4
16	8.2	7.8	8.2	7.8	8.4	8.0	---	---	8.0	7.7	8.4	7.6
17	8.2	7.8	8.2	8.1	8.3	8.1	---	---	8.1	7.6	8.3	7.0
18	8.2	7.9	8.2	7.8	8.2	8.1	---	---	8.1	7.3	8.2	7.0
19	8.2	7.9	8.1	7.7	8.3	8.1	8.0	7.9	8.1	6.8	8.1	7.4
20	8.2	7.9	8.1	7.6	8.3	8.1	8.2	7.9	8.0	7.0	8.3	7.5
21	8.2	7.9	8.1	7.6	8.2	8.1	8.5	7.9	7.8	7.5	8.3	7.3
22	8.1	7.7	8.1	6.4	8.1	8.1	8.5	8.0	8.0	7.1	8.3	6.6
23	8.2	7.7	7.9	6.0	8.1	8.0	8.5	8.0	8.2	7.1	8.2	7.6
24	8.2	7.7	8.2	7.0	8.1	7.9	8.3	7.7	8.1	6.8	8.4	6.7
25	8.1	7.7	8.3	7.6	8.1	7.8	8.2	7.9	8.0	6.9	8.4	6.6
26	8.1	7.8	8.2	7.7	8.0	7.8	8.2	6.9	8.0	7.2	8.3	6.6
27	8.0	7.8	8.1	6.3	8.0	7.9	8.3	7.1	8.0	7.5	8.2	6.3
28	8.0	7.7	8.2	7.7	8.1	7.9	8.3	7.1	8.0	7.4	8.2	6.8
29	8.2	7.8	8.3	6.9	8.1	7.6	8.2	7.9	---	---	8.2	6.8
30	8.3	7.8	8.1	8.0	8.1	7.9	8.1	7.1	---	---	8.2	6.6
31	8.3	7.9	---	---	8.1	8.0	8.1	7.2	---	---	8.3	6.8
MONTH	---	---	8.3	6.0	8.7	7.6	---	---	8.3	6.8	8.4	6.1

SANTA MARGARITA RIVER BASIN

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331346117243401 SANTA MARGARITA RIVER ESTUARY NEAR OCEANSIDE, CA

PH, WATER, WHOLE, FIELD, STANDARD UNITS, 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	8.3	6.9	8.1	7.9	8.4	8.1	8.2	7.9	8.3	7.6	7.9	7.4
2	8.4	7.4	8.2	7.3	8.6	8.1	8.1	7.8	8.3	7.7	7.9	7.4
3	8.3	6.8	8.1	7.1	8.6	8.2	8.0	7.2	8.1	7.9	8.0	7.4
4	8.1	6.8	8.3	7.3	8.7	8.2	8.1	7.8	8.2	7.7	8.0	7.4
5	8.3	6.8	8.3	7.0	8.7	8.3	8.2	7.6	8.2	7.7	8.1	7.3
6	8.3	6.6	8.3	7.3	8.8	8.0	8.3	7.9	8.0	7.7	8.1	7.3
7	8.3	6.6	8.4	7.1	8.7	8.1	8.1	7.8	8.2	7.6	8.1	7.4
8	8.3	6.8	8.4	7.2	8.4	7.9	8.1	7.7	8.2	7.5	8.1	7.3
9	8.4	6.5	8.4	7.5	8.4	7.9	8.0	7.5	8.5	7.5	8.0	7.4
10	8.4	6.5	8.4	8.1	8.4	7.8	8.1	7.5	8.5	7.6	8.0	7.5
11	8.1	6.2	8.4	7.8	8.4	7.8	8.1	7.3	8.5	7.6	8.0	7.5
12	8.5	6.4	8.2	7.9	8.3	7.8	8.0	7.4	8.4	7.6	8.0	7.6
13	8.1	6.8	8.2	7.8	8.6	8.0	8.1	7.5	8.4	7.6	8.1	7.6
14	8.1	6.8	8.2	7.7	8.3	8.0	8.1	7.6	8.3	7.6	8.0	7.6
15	8.1	7.3	8.3	8.0	8.4	7.9	8.1	7.6	8.1	7.7	7.9	7.6
16	8.5	7.0	8.3	8.0	8.4	7.9	8.1	7.6	8.1	7.6	7.8	7.6
17	8.0	7.4	8.3	8.0	8.5	7.9	8.1	7.4	8.1	7.7	7.9	7.5
18	8.0	7.7	8.3	8.0	8.9	8.1	8.2	6.7	7.9	7.3	8.0	7.5
19	8.1	7.5	8.3	8.0	8.9	8.1	8.1	7.7	8.1	7.3	8.2	7.6
20	8.1	7.5	8.7	8.0	8.6	7.8	8.1	7.8	8.0	7.3	8.4	7.7
21	8.2	7.4	8.5	8.2	8.2	7.6	8.1	7.9	8.1	7.4	8.4	7.8
22	8.1	6.3	8.4	8.1	8.2	7.6	8.1	7.6	8.0	7.3	8.3	7.7
23	8.1	6.2	8.4	8.1	8.1	7.6	8.0	7.6	8.0	7.3	8.2	7.7
24	8.0	6.0	8.3	8.1	8.2	7.8	8.0	7.6	8.4	7.3	8.3	7.8
25	8.1	7.4	8.4	8.0	8.2	7.5	8.0	7.6	8.4	7.4	8.1	7.8
26	8.1	7.1	8.4	8.1	8.2	7.6	8.0	7.6	8.3	7.4	7.9	7.7
27	8.1	6.9	8.5	8.1	8.3	7.7	8.1	7.7	8.2	7.4	8.1	7.5
28	8.2	7.4	8.5	8.1	8.2	7.8	8.2	7.4	8.1	7.4	8.1	7.6
29	8.2	7.8	8.5	8.1	8.4	7.8	8.4	7.4	8.1	7.4	7.9	7.5
30	8.1	7.7	8.3	8.0	8.2	7.7	8.4	7.5	8.0	7.4	7.9	7.5
31	---	---	8.3	8.2	---	---	8.4	7.6	8.0	7.4	---	---
MONTH	8.5	6.0	8.7	7.0	8.9	7.5	8.4	6.7	8.5	7.3	8.4	7.3

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	---	---	22.0	15.5	15.5	10.0	15.0	8.0	19.0	8.5	16.5	12.0
2	---	---	18.5	15.0	15.0	10.5	14.5	5.5	19.0	9.5	15.0	10.5
3	---	---	18.0	8.0	12.5	10.5	13.5	9.0	19.5	10.0	17.0	14.5
4	---	---	17.5	5.0	14.0	9.5	13.0	10.0	19.5	9.0	18.0	14.5
5	---	---	18.0	7.0	15.5	11.5	15.0	11.0	16.5	10.5	16.5	15.5
6	---	---	18.5	7.5	16.0	12.5	13.5	8.0	15.5	10.0	19.5	14.5
7	---	---	17.5	7.5	16.0	12.5	13.5	9.0	16.0	13.0	17.5	12.5
8	---	---	18.5	10.0	13.0	9.5	18.0	12.5	15.5	12.5	20.0	13.0
9	---	---	19.5	8.5	11.5	5.0	15.5	12.5	18.0	10.5	18.5	13.5
10	---	---	16.0	7.5	10.5	6.0	14.5	12.5	16.5	10.5	18.0	14.0
11	---	---	18.0	7.0	11.0	6.0	14.5	13.0	18.0	11.0	22.0	13.5
12	---	---	18.0	6.0	15.0	9.0	15.0	13.0	18.0	11.5	19.5	13.0
13	---	---	18.5	8.0	16.5	11.0	16.5	12.0	15.0	11.0	19.5	13.0
14	24.5	18.5	20.0	7.0	15.5	11.0	15.0	12.0	17.0	14.5	21.0	11.5
15	24.0	18.0	17.5	8.0	15.0	10.0	---	---	17.5	12.5	21.5	12.5
16	23.0	17.5	16.5	7.0	15.5	10.0	---	---	16.0	9.5	19.5	15.0
17	22.5	16.0	15.0	4.5	15.0	10.0	---	---	17.5	11.5	18.0	14.5
18	22.0	15.5	13.5	4.5	14.0	9.5	---	---	19.5	9.0	20.0	15.0
19	21.0	14.5	14.5	2.0	14.0	10.0	13.5	5.0	22.0	9.5	19.0	15.0
20	21.5	15.5	15.5	2.5	15.0	10.5	13.5	6.0	20.0	12.0	19.0	14.5
21	22.0	16.0	15.5	2.0	13.5	10.0	14.0	8.5	19.0	12.5	18.0	12.0
22	19.5	17.0	22.5	5.0	12.5	11.5	14.0	8.0	20.0	13.5	16.5	9.0
23	20.0	16.5	19.0	8.0	16.0	11.5	15.0	11.5	17.5	14.0	16.5	11.5
24	23.0	16.5	18.5	6.5	15.0	13.0	16.0	12.0	17.5	14.0	16.5	7.0
25	23.0	17.5	17.0	6.5	15.5	13.0	14.5	12.5	18.5	13.0	17.5	7.0
26	22.5	19.0	15.0	5.0	15.5	11.5	15.0	9.0	17.0	13.0	19.5	7.0
27	20.0	18.0	17.0	4.0	15.5	11.5	14.0	9.0	16.5	12.0	20.0	7.5
28	21.5	19.0	17.0	2.5	14.0	13.0	17.0	9.5	16.5	11.0	20.0	6.0
29	21.5	18.5	14.5	5.5	15.5	6.0	15.0	10.0	---	---	19.5	7.0
30	21.5	17.0	16.0	9.5	14.5	6.0	19.5	9.5	---	---	21.5	10.0
31	21.0	16.0	---	---	13.5	8.5	19.5	9.0	---	---	20.5	7.0
MONTH	---	---	22.5	2.0	16.5	5.0	---	---	22.0	8.5	22.0	6.0

331346117243401 SANTA MARGARITA RIVER ESTUARY NEAR OCEANSIDE, CA

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	19.0	7.0	19.5	15.5	22.5	14.5	30.0	19.5	27.5	21.0	26.5	22.5
2	22.0	12.0	21.0	14.5	26.0	15.5	29.0	18.5	27.5	20.5	29.0	23.0
3	21.0	10.0	21.0	13.5	24.5	15.0	28.0	19.5	28.0	20.5	30.0	24.5
4	20.5	10.0	21.0	13.5	25.0	16.0	26.5	19.0	28.5	20.5	29.5	24.0
5	20.5	13.0	18.0	11.5	22.0	16.0	25.5	20.0	28.5	20.5	32.0	23.5
6	18.5	12.5	16.0	10.0	27.0	16.5	25.5	18.5	26.5	20.5	32.0	24.5
7	20.0	11.5	19.5	11.5	24.5	18.0	28.0	18.5	27.5	19.0	31.5	24.0
8	19.5	11.5	23.0	12.5	23.5	13.0	25.5	18.5	26.5	21.0	30.0	23.5
9	19.0	9.5	23.0	10.5	23.5	13.0	24.0	19.5	29.0	21.5	28.5	22.0
10	21.0	8.5	22.0	10.5	24.5	14.0	25.0	18.5	29.5	20.5	27.5	21.0
11	21.5	8.0	23.5	14.0	24.5	15.0	25.0	18.5	30.0	20.0	27.0	19.5
12	22.0	8.0	21.0	14.5	24.0	15.5	29.5	17.0	30.5	21.5	28.0	20.5
13	19.5	12.5	20.5	14.0	21.5	16.0	31.0	16.5	30.0	21.5	28.0	22.0
14	18.0	10.0	22.0	11.5	22.0	15.5	30.0	17.0	30.5	22.0	28.0	24.0
15	19.0	9.0	21.5	11.5	24.0	15.5	27.0	17.5	29.5	22.5	27.0	24.5
16	16.5	10.0	23.5	11.5	22.5	15.5	29.5	19.5	28.5	21.0	26.0	22.5
17	18.5	10.0	20.0	12.5	27.0	17.0	26.5	19.5	28.5	20.0	27.0	23.0
18	17.5	12.0	24.5	15.0	28.0	17.0	27.0	19.0	29.5	20.0	28.0	23.5
19	23.0	10.5	24.0	15.5	29.5	21.5	26.5	18.0	29.5	19.5	26.5	23.0
20	23.0	10.5	21.0	15.0	28.5	21.0	29.5	16.5	29.0	22.5	28.5	23.5
21	23.0	10.5	22.5	15.0	27.5	19.0	28.5	15.0	29.0	22.5	28.5	22.5
22	22.0	10.5	23.0	14.0	26.5	20.0	25.0	18.5	28.0	24.0	28.0	22.5
23	24.5	12.0	21.5	13.5	23.0	19.5	25.5	18.5	28.5	23.0	27.0	22.5
24	23.0	11.0	19.5	12.0	22.5	18.0	25.5	19.0	30.5	22.0	27.0	21.5
25	19.5	12.5	22.0	14.5	21.5	19.0	25.0	19.0	31.0	20.0	27.0	22.5
26	20.5	14.0	23.5	14.0	24.0	17.5	24.5	18.5	30.5	19.5	23.5	21.5
27	20.0	13.5	22.0	14.5	25.0	19.0	26.0	19.5	30.5	21.0	24.5	20.5
28	20.0	13.0	21.5	14.5	28.5	19.5	30.0	21.5	30.0	21.5	24.5	21.5
29	22.0	12.0	21.0	15.0	29.0	18.0	33.5	20.5	29.5	20.5	25.5	20.5
30	19.0	15.0	21.0	15.5	29.5	19.5	28.5	20.5	29.0	21.0	26.0	20.0
31	---	---	20.5	16.0	---	---	28.5	20.5	28.5	22.0	---	---
MONTH	24.5	7.0	24.5	10.0	29.5	13.0	33.5	15.0	31.0	19.0	32.0	19.5

OXYGEN, DISSOLVED (MG/L), 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	---	---	13.2	2.6	10.2	6.7	12.1	6.6	12.3	7.2	10.2	3.7
2	---	---	10.6	3.5	9.1	6.6	13.9	6.7	11.9	7.4	10.5	3.9
3	---	---	13.7	4.3	8.9	6.0	12.3	6.7	11.5	7.5	9.3	4.9
4	---	---	15.1	7.1	9.1	5.2	11.1	5.8	14.7	7.0	9.5	4.9
5	---	---	14.0	8.0	8.7	4.8	11.7	7.7	11.9	6.4	9.0	4.9
6	---	---	13.9	8.3	8.8	5.3	13.1	8.5	11.8	6.2	8.3	4.0
7	---	---	13.9	8.2	8.7	5.4	12.7	8.3	12.4	4.9	9.7	3.1
8	---	---	13.0	9.1	8.7	6.1	11.1	7.6	10.4	6.3	9.6	3.2
9	---	---	13.5	10.4	8.5	6.1	11.7	6.0	11.7	5.4	9.5	3.0
10	---	---	13.7	11.2	10.1	6.1	11.7	4.5	11.7	5.8	8.9	2.7
11	---	---	14.1	10.6	10.1	7.4	8.9	6.1	11.3	5.2	7.6	4.7
12	---	---	14.3	10.7	10.8	6.0	10.7	6.1	10.9	6.2	9.3	4.7
13	---	---	13.7	8.6	10.0	6.0	11.5	7.5	12.0	5.8	9.4	4.7
14	11.9	3.2	14.1	8.6	10.2	6.2	11.5	7.2	9.9	5.6	9.8	5.8
15	11.0	4.6	13.5	7.8	10.3	6.0	---	---	10.7	5.6	10.3	6.0
16	10.2	3.3	14.0	7.4	10.1	5.7	---	---	11.6	5.7	9.8	6.8
17	10.3	4.0	14.9	7.8	10.2	6.5	---	---	11.0	6.5	10.3	4.9
18	10.3	4.7	15.0	8.6	10.6	7.4	---	---	11.8	6.6	10.4	4.9
19	11.4	4.4	18.0	11.6	10.2	7.4	13.4	8.0	11.4	6.0	10.5	5.0
20	10.6	3.8	16.7	11.3	10.3	6.4	12.8	7.8	10.7	5.6	10.8	6.8
21	11.8	2.5	16.6	11.2	11.4	7.3	12.4	7.8	10.7	4.4	11.8	6.8
22	11.7	2.6	14.9	9.5	9.7	8.2	12.5	7.7	10.3	4.6	12.0	7.8
23	13.4	2.5	13.4	10.3	11.0	7.0	13.3	7.0	10.2	4.5	12.2	6.1
24	13.2	1.4	13.9	10.4	8.8	6.0	11.1	6.1	10.2	3.0	14.0	7.9
25	11.4	.7	14.0	10.6	7.5	4.9	10.7	6.5	10.1	3.3	14.1	8.9
26	9.2	1.2	14.3	11.1	10.3	6.0	12.3	8.2	10.1	5.0	14.1	8.3
27	9.0	1.5	15.0	10.5	10.3	6.7	12.3	7.2	9.9	5.7	14.1	8.5
28	9.0	3.2	15.5	10.3	9.6	6.6	12.2	7.7	10.5	3.7	14.8	8.7
29	11.3	3.4	13.6	6.9	14.0	7.6	11.9	7.6	---	---	14.4	8.6
30	12.1	4.4	9.9	6.7	15.7	7.9	14.9	6.3	---	---	13.0	8.7
31	12.1	2.7	---	---	13.8	6.6	12.1	6.3	---	---	14.6	6.5
MONTH	---	---	18.0	2.6	15.7	4.8	---	---	14.7	3.0	14.8	2.7

SANTA MARGARITA RIVER BASIN

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331346117243401 SANTA MARGARITA RIVER ESTUARY NEAR OCEANSIDE, CA

OXYGEN, DISSOLVED (MG/L), 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	14.6	6.4	9.8	5.7	11.1	5.9	5.5	.6	10.3	.6	5.6	1.0
2	13.4	6.4	9.9	5.7	10.9	5.8	6.5	.6	8.4	1.3	5.7	.9
3	13.9	6.9	10.2	5.5	14.3	6.0	8.4	.6	9.0	2.8	6.7	1.0
4	13.9	6.6	10.1	5.5	13.7	6.7	8.9	.7	9.7	2.5	9.2	1.0
5	13.3	6.6	10.4	4.9	15.3	2.9	8.9	.6	9.6	.2	8.1	1.2
6	13.5	6.9	10.8	6.4	15.3	2.9	9.6	.8	12.9	.2	10.1	1.2
7	13.4	7.5	10.4	5.0	17.0	.7	8.8	.7	12.2	.2	9.9	1.2
8	14.2	7.2	12.5	7.2	10.2	.7	5.6	.7	7.6	.4	9.2	1.3
9	15.0	7.2	10.5	4.8	9.8	.7	7.3	.7	12.3	.1	7.9	1.5
10	15.4	9.7	10.6	4.3	10.8	.6	6.2	.7	12.9	1.0	7.8	1.7
11	17.5	8.9	10.7	4.3	10.4	.6	8.5	.8	11.7	.5	8.3	2.3
12	15.7	8.7	11.3	6.3	15.7	.8	6.5	.8	10.5	.3	8.7	2.3
13	11.4	5.0	11.2	6.3	9.6	.8	8.5	1.8	11.4	.2	10.5	2.8
14	14.3	5.0	12.1	6.8	8.2	1.4	10.1	1.8	9.1	.4	8.2	1.7
15	12.0	6.1	12.0	6.9	12.0	.7	9.9	1.4	8.6	.7	7.0	1.5
16	11.5	6.4	17.0	4.5	11.3	4.7	9.5	1.3	6.8	.3	4.5	2.5
17	11.5	6.5	11.7	6.3	13.4	2.2	9.6	1.5	4.7	.9	5.3	1.2
18	11.1	6.7	11.1	7.3	15.2	.5	9.7	.3	4.7	1.0	6.9	1.1
19	11.5	5.8	11.0	5.8	17.8	.3	10.0	4.3	14.8	.8	10.1	1.4
20	11.7	5.3	13.8	6.6	11.1	.3	10.4	6.6	10.3	.8	13.0	2.5
21	11.5	4.7	17.7	6.3	3.8	.3	10.8	2.1	11.0	.9	13.3	1.1
22	11.5	3.9	12.9	5.9	5.6	.3	10.8	.2	15.3	.4	12.7	1.7
23	11.0	5.0	14.4	5.9	6.2	.4	9.9	.2	15.1	.4	12.9	1.9
24	11.2	5.4	12.0	5.6	7.5	.4	9.7	.3	12.8	.8	12.7	2.2
25	10.8	5.7	13.1	3.9	7.5	.4	9.8	.9	12.0	.6	10.4	2.8
26	10.4	6.9	11.6	3.1	7.0	.4	10.0	.0	9.8	.5	7.6	1.9
27	10.2	3.5	11.9	1.2	7.9	.5	9.7	.4	9.2	.7	11.4	1.4
28	10.4	3.5	11.3	2.9	5.6	.5	19.0	.1	8.5	.7	10.6	1.6
29	10.8	3.9	17.3	3.2	5.4	.5	14.6	1.0	8.1	.8	9.0	1.7
30	10.0	5.6	11.1	2.5	6.6	.5	11.4	.5	7.7	1.0	8.1	2.2
31	---	---	11.0	3.7	---	---	13.3	.7	7.5	.9	---	---
MONTH	17.5	3.5	17.7	1.2	17.8	.3	19.0	.0	15.3	.1	13.3	.9

LAS FLORES CREEK BASIN

11046100 LAS FLORES CREEK NEAR OCEANSIDE, CA

LOCATION.--Lat 33°17'32", long 117°27'21", NW 1/4 SE 1/4 sec.24, T.10 S., R.6 W., San Diego County, Hydrologic Unit 18070301, on Camp Joseph H. Pendleton Naval Reservation, on upstream side and at center of the Southern Pacific Railroad bridge, 0.5 mi upstream from mouth, and 8.5 mi northwest of Oceanside.

DRAINAGE AREA.--26.6 mi².

PERIOD OF RECORD.--May 1951 to September 1967, October 1969 to September 1979, and October 1993 to current year.

REVISED RECORDS.--WDR CA-72-1: 1971(M).

GAGE.--Water-stage recorder and multiple concrete culvert control. Elevation of gage is 35 ft above sea level, from topographic map.

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

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 7,300 ft³/s, Mar. 4, 1978, gage height, 13.67 ft, estimated, from floodmarks, based on culvert computation of peak flow; no flow for several days in most years.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Feb. 25, 1969, reached a stage of 7.25 ft, from floodmarks, discharge, 4,200 ft³/s.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 2,070 ft³/s, Mar. 5, gage height, 7.03 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	.01	.00	.01	.01	e3.2	.21	12	3.4	.64	.49	.70	.42
2	.00	.00	.01	.01	e1.8	.19	12	3.0	.64	.49	.64	.44
3	.00	.00	.01	.02	.85	16	11	2.6	.64	.50	.61	.38
4	.00	.00	.01	102	.42	6.6	10	2.4	.64	.49	.60	.39
5	.00	.00	.01	15	.38	672	10	2.7	.69	.49	.64	.44
6	.00	.00	.01	.77	.38	487	10	3.2	.70	.49	.58	.46
7	.00	.00	.01	11	.38	74	9.6	2.4	.64	.49	.50	.39
8	.00	.00	.01	104	.35	56	8.9	2.0	.57	.49	.49	.37
9	.00	.00	.01	12	.35	47	8.5	1.6	.60	.49	.52	.38
10	.00	.01	.01	237	.33	43	7.8	1.4	.57	.49	.56	.37
11	.00	.00	.01	203	.29	677	7.2	2.0	.56	.49	.56	.38
12	.00	.00	.01	111	.26	116	7.0	1.3	.60	.49	.56	.38
13	.00	.00	.01	33	.39	67	6.8	2.7	.62	.49	.52	.38
14	.00	.00	.01	17	62	52	6.4	1.8	.64	.43	.51	.39
15	.00	.00	.01	e10	38	41	6.2	1.1	.64	.43	.56	.43
16	.00	.00	.01	e7.0	16	36	11	1.0	.64	.43	.39	.44
17	.00	.00	.01	e3.0	7.4	34	7.4	.96	.90	.47	.46	.49
18	.00	.00	.01	e1.5	5.2	30	21	.80	.57	.48	.48	.49
19	.01	.00	.01	.68	3.0	28	12	.77	.55	.49	.55	.49
20	.01	.00	.01	.49	1.6	25	7.5	.85	.54	.50	.48	.49
21	.01	.00	.01	1.7	1.1	29	6.0	1.3	.55	.53	.49	.44
22	.01	.00	.01	.49	.96	24	5.4	.94	.49	.56	.49	.46
23	.01	.00	.01	.43	.82	46	4.7	1.1	.45	.56	.47	.48
24	.01	.00	.02	9.0	.68	28	4.3	1.2	.47	.64	.42	.45
25	.01	.00	.01	90	.51	23	3.6	1.4	.44	.78	.38	.44
26	.01	.01	.01	68	.38	20	3.8	.87	.47	.82	.38	.44
27	.01	.01	.01	27	.22	18	3.7	.74	.44	.74	.38	.49
28	.01	.01	.01	18	.17	17	3.6	.72	.49	.74	.35	.47
29	.01	.01	.01	9.1	---	16	3.1	.68	.49	.74	.28	.49
30	.01	.01	.01	5.9	---	15	3.3	.64	.51	.80	.43	.46
31	.01	---	.01	4.5	---	13	---	.64	---	.84	.36	---
TOTAL	0.14	0.06	0.32	1102.60	147.42	2757.00	233.8	48.21	17.39	17.36	15.34	13.02
MEAN	.005	.002	.010	35.6	5.26	88.9	7.79	1.56	.58	.56	.49	.43
MAX	.01	.01	.02	237	62	677	21	3.4	.90	.84	.70	.49
MIN	.00	.00	.01	.01	.17	.19	3.1	.64	.44	.43	.28	.37
AC-FT	.3	.1	.6	2190	292	5470	464	96	34	34	30	26

e Estimated.

LAS FLORES CREEK BASIN

201

11046100 LAS FLORES CREEK NEAR OCEANSIDE, 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	.004	.22	.79	3.95	2.55	9.63	1.80	.10	.027	.035	.033	.048
MAX	.036	4.81	12.9	35.6	36.3	143	29.3	1.56	.58	.56	.49	.64
(WY)	1970	1966	1967	1995	1978	1978	1958	1995	1995	1995	1995	1979
MIN	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
(WY)	1952	1954	1954	1963	1961	1955	1953	1953	1952	1952	1952	1952

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR	FOR 1995 WATER YEAR	WATER YEARS 1952 - 1995
ANNUAL TOTAL	38.56	4352.66	
ANNUAL MEAN	.11	11.9	1.60
HIGHEST ANNUAL MEAN			17.9
LOWEST ANNUAL MEAN			.006
HIGHEST DAILY MEAN	3.3 Mar 7	677 Mar 11	927 Mar 1 1978
LOWEST DAILY MEAN	.00 Jun 8	.00 Oct 2	.00 Oct 1 1951
ANNUAL SEVEN-DAY MINIMUM	.00 Sep 14	.00 Oct 2	.00 Oct 1 1951
INSTANTANEOUS PEAK FLOW		2070 Mar 5	7300 Mar 4 1978
INSTANTANEOUS PEAK STAGE		7.03 Mar 5	13.67 Mar 4 1978
ANNUAL RUNOFF (AC-FT)	76	8630	1160
10 PERCENT EXCEEDS	.21	17	.20
50 PERCENT EXCEEDS	.01	.49	.00
90 PERCENT EXCEEDS	.00	.00	.00

11046300 SAN MATEO CREEK NEAR SAN CLEMENTE, CA

LOCATION.--Lat 33°28'15", long 117°28'20", in SE 1/4 NE 1/4 sec.23, T.8 S., R.6 W., San Diego County, Hydrologic Unit 18070301, on Camp Joseph H. Pendleton Naval Reservation, on left bank 0.4 mi downstream from mouth of Devil Canyon and 8.6 miles northeast of San Clemente.

DRAINAGE AREA.--80.8 mi².

PERIOD OF RECORD.--October 1952 to September 1967, October 1993 to current year. Discharge records for October 1967 to September 1977 and October 1989 to September 1993 available in files of U.S. Marine Corps at Camp Pendleton.

REVISED RECORDS.--WSP 1928: Drainage area.

GAGE.--Water-stage recorder. Elevation of gage is 405 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, 7,300 ft³/s, Dec. 6, 1966, gage height, 10.45 ft, from rating curve extended above 1,800 ft³/s on basis of slope-area measurement at gage height 10.14 ft; no flow for several days in most years.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum discharge 9,240 ft³/s, gage height 11.12 ft, Jan. 25, 1969.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 150 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Jan. 4	2215	1,180	6.67	Mar. 5	2115	*5,380	*10.33
Jan. 10	1945	3,070	8.68	Mar. 11	1030	2,410	8.07
Jan. 25	1915	765	6.02	Mar. 23	1445	857	6.18
Feb. 14	1845	1,920	7.56	Apr. 18	1815	171	4.43

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	.38	49	36	100	33	16	7.7	2.4	.56
2	.00	.00	.18	.37	42	36	94	32	17	7.6	2.3	.56
3	.00	.00	.19	.58	37	43	87	31	18	7.3	2.2	.53
4	.00	.00	.20	190	33	50	80	30	17	7.5	2.1	.56
5	.00	.00	.21	305	29	2160	76	31	16	7.6	1.9	.55
6	.00	.00	.21	25	27	1820	74	36	16	7.2	1.8	.51
7	.00	.00	.21	33	25	552	71	32	15	6.9	1.7	.50
8	.00	.00	.21	297	24	361	67	30	15	6.3	1.5	.49
9	.00	.00	.21	81	22	275	64	29	14	6.0	1.5	.47
10	.00	.00	.20	680	21	226	59	28	13	5.5	1.5	.49
11	.00	.00	.20	442	20	1410	56	27	12	5.4	1.4	.50
12	.00	.00	.20	225	19	614	53	27	12	5.1	1.3	.50
13	.00	.00	.21	136	24	406	51	30	11	4.8	1.2	.52
14	.00	.00	.23	78	947	323	50	29	11	4.7	1.1	.58
15	.00	.00	.25	70	440	268	49	27	12	4.6	1.0	.56
16	.00	.00	.24	74	204	230	80	26	15	4.8	1.1	.53
17	.00	.00	.24	51	146	203	72	24	21	5.1	1.2	.56
18	.00	.00	.25	40	113	182	96	24	15	4.5	1.3	.66
19	.00	.10	.25	33	90	166	92	23	13	3.9	1.2	.70
20	.00	.15	.26	28	76	152	63	23	12	3.6	1.1	.74
21	.00	.18	.26	29	67	188	57	22	12	3.4	1.1	.71
22	.00	.16	.26	26	60	163	51	21	11	3.2	1.0	.78
23	.00	.14	.28	24	55	392	46	23	11	3.3	.97	.74
24	.00	.14	.36	62	50	255	42	23	10	3.3	.91	.73
25	.00	.15	.58	305	47	191	40	23	9.8	3.3	.88	.69
26	.00	.19	.51	362	44	165	39	21	9.8	3.2	.78	.73
27	.00	.20	.44	160	41	149	38	20	9.4	3.0	.73	.69
28	.00	.20	.41	109	38	137	36	19	8.8	2.6	.71	1.0
29	.00	.19	.41	83	---	125	35	18	8.3	2.5	.68	1.0
30	.00	.18	.39	67	---	116	34	17	8.3	2.5	.64	.96
31	.00	---	.38	56	---	106	---	16	---	2.5	.59	---
TOTAL	0.00	1.98	8.61	4072.33	2790	11500	1852	795	389.4	148.9	39.79	19.10
MEAN	.000	.066	.28	131	99.6	371	61.7	25.6	13.0	4.80	1.28	.64
MAX	.00	.20	.58	680	947	2160	100	36	21	7.7	2.4	1.0
MIN	.00	.00	.18	.37	19	36	34	16	8.3	2.5	.59	.47
AC-FT	.00	3.9	17	8080	5530	22810	3670	1580	772	295	79	38

11046300 SAN MATEO CREEK NEAR SAN CLEMENTE, 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	.030	4.24	13.0	18.8	19.2	36.0	24.7	4.48	1.54	.42	.077	.037
MAX	.52	69.4	164	131	99.6	371	270	25.6	13.0	4.80	1.28	.64
(WY)	1994	1966	1967	1995	1995	1995	1958	1995	1995	1995	1995	1995
MIN	.000	.000	.000	.000	.089	.035	.007	.000	.000	.000	.000	.000
(WY)	1953	1954	1954	1963	1961	1961	1961	1961	1960	1953	1953	1953

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR				FOR 1995 WATER YEAR				WATER YEARS 1953 - 1995			
ANNUAL TOTAL	1509.27				21617.11							
ANNUAL MEAN	4.13				59.2				10.2			
HIGHEST ANNUAL MEAN									59.2			
LOWEST ANNUAL MEAN									.019			
HIGHEST DAILY MEAN	229				2160				2570			
LOWEST DAILY MEAN	.00				.00				.00			
ANNUAL SEVEN-DAY MINIMUM	.00				.00				.00			
INSTANTANEOUS PEAK FLOW					5380				7300			
INSTANTANEOUS PEAK STAGE					10.33				10.45			
ANNUAL RUNOFF (AC-FT)	2990				42880				7370			
10 PERCENT EXCEEDS	7.6				141				12			
50 PERCENT EXCEEDS	.36				7.3				.10			
90 PERCENT EXCEEDS	.00				.00				.00			

11046360 CHRISTIANITOS CREEK ABOVE SAN MATEO CREEK, NEAR SAN CLEMENTE, CA

LOCATION.--Lat 33°25'35", long 117°34'10", in SW 1/4 SW 1/4 sec.36, T.8 S., R.7 W., San Diego County, Hydrologic Unit 18070301, on each of two major channels of Christianitos Creek, at San Mateo Creek Road crossing, 0.5 mi upstream from confluence with San Mateo Creek, and 2.3 mi east of San Clemente.

DRAINAGE AREA.--31.6 mi².

PERIOD OF RECORD.--October 1993 to current year.

GAGE.--Two water-stage recorders (one on each of two channels) and culvert controls. Elevation of gage is 90 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, 1,730 ft³/s, estimated, Mar. 5, 1995, from rating curves extended on basis of culvert computations; no flow most of each year.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Jan. 16, 1952, reached a discharge of 1,800 ft³/s, gage height of 8.86 ft, datum then in use, at site 1.8 mi upstream (station 11046350), on basis of slope-area measurement.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 100 ft³/s and maximum (*), from rating curves extended on basis of culvert computations:

Date	Time	Combined Discharge (north and south channels) (ft ³ /s)	Date	Time	Combined Discharge (north and south channels) (ft ³ /s)
Jan. 4	1845	292	Mar. 5	2130	(e) *1,730
Jan. 10	1900	(e) 1,620	Mar. 11	Unknown	Unknown
Jan. 25	2230	191	Mar. 23	1130	361
Feb. 14	1645	697	Apr. 18	1500	233

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	6.3	8.2	13	5.8	1.2	.00	.00	.00
2	.00	.00	.00	.00	5.2	8.1	14	5.8	1.3	.00	.00	.00
3	.00	.00	.00	.04	4.4	10	13	5.5	1.6	.00	.00	.00
4	.00	.00	.00	48	3.9	10	12	4.7	1.3	.00	.00	.00
5	.00	.00	.00	e7.9	3.4	e775	11	4.3	1.2	.00	.00	.00
6	.00	.00	.00	e.03	3.5	e827	11	6.5	1.5	.00	.00	.00
7	.00	.00	.00	26	3.5	e215	10	5.2	.74	.00	.00	.00
8	.00	.00	.00	53	3.2	e77	8.8	4.5	.29	.00	.00	.00
9	.00	.00	.00	e1.0	3.5	51	8.0	3.8	.20	.00	.00	.00
10	.00	.00	.00	e307	3.5	42	6.4	3.5	.06	.00	.00	.00
11	.00	.00	.00	e28	3.3	e572	5.5	3.8	.04	.00	.00	.00
12	.00	.00	.00	e6.6	3.1	e266	4.8	3.7	.00	.00	.00	.00
13	.00	.00	.00	e3.3	5.0	e179	4.0	7.7	.00	.00	.00	.00
14	.00	.00	.00	e1.2	295	e129	3.8	3.7	.00	.00	.00	.00
15	.00	.00	.00	.33	e166	e84	4.1	3.1	.47	.00	.00	.00
16	.00	.00	.00	.29	e56	e43	32	3.2	2.1	.00	.00	.00
17	.00	.00	.00	.29	30	32	13	2.8	4.1	.00	.00	.00
18	.00	.00	.00	.25	22	26	63	3.0	1.0	.00	.00	.00
19	.00	.00	.00	.17	17	23	26	2.9	.27	.00	.00	.00
20	.00	.00	.00	.16	13	20	13	3.1	.05	.00	.00	.00
21	.00	.00	.00	1.7	12	80	9.7	2.9	.00	.00	.00	.00
22	.00	.00	.00	.89	10	55	8.0	2.3	.00	.00	.00	.00
23	.00	.00	.00	1.3	10	155	6.2	3.0	.00	.00	.00	.00
24	.00	.00	.00	23	9.7	e90	5.4	3.6	.00	.00	.00	.00
25	.00	.00	.02	93	10	e49	5.0	3.8	.00	.00	.00	.00
26	.00	.00	.00	83	9.2	e36	5.6	2.3	.00	.00	.00	.00
27	.00	.00	.00	31	8.5	e29	5.6	2.2	.00	.00	.00	.00
28	.00	.00	.00	17	8.3	e25	5.7	2.0	.00	.00	.00	.00
29	.00	.00	.00	12	---	20	5.0	1.4	.00	.00	.00	.00
30	.00	.00	.00	9.3	---	17	4.9	1.2	.00	.00	.00	.00
31	.00	---	.00	7.4	---	14	---	1.2	---	.00	.00	---
TOTAL	0.00	0.00	0.02	763.15	728.5	3967.3	337.5	112.5	17.42	0.00	0.00	0.00
MEAN	.000	.000	.001	24.6	26.0	128	11.2	3.63	.58	.000	.000	.000
MAX	.00	.00	.02	307	295	827	63	7.7	4.1	.00	.00	.00
MIN	.00	.00	.00	.00	3.1	8.1	3.8	1.2	.00	.00	.00	.00
AC-FT	.00	.00	.04	1510	1440	7870	669	223	35	.00	.00	.00

e Estimated.

11046360 CHRISTIANITOS CREEK ABOVE SAN MATEO CREEK NEAR SAN CLEMENTE, 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	.000	.000	.000	12.3	13.2	64.2	5.62	1.81	.29	.000	.000	.000
MAX	.000	.000	.001	24.6	26.0	128	11.2	3.63	.58	.000	.000	.000
(WY)	1994	1994	1995	1995	1995	1995	1995	1995	1995	1994	1994	1994
MIN	.000	.000	.000	.000	.42	.40	.000	.000	.000	.000	.000	.000
(WY)	1994	1994	1994	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	24.28		5926.39			
ANNUAL MEAN	.067		16.2		8.15	
HIGHEST ANNUAL MEAN					16.2 1995	
LOWEST ANNUAL MEAN					.066 1994	
HIGHEST DAILY MEAN	6.2	Mar 25	827	Mar 6	827	Mar 6 1995
LOWEST DAILY MEAN	.00	Jan 1	.00	Oct 1	.00	Oct 1 1993
ANNUAL SEVEN-DAY MINIMUM	.00	Jan 1	.00	Oct 1	.00	Oct 1 1993
INSTANTANEOUS PEAK FLOW			1730	Mar 5	1730	Mar 5 1995
ANNUAL RUNOFF (AC-FT)	48		11750		5910	
10 PERCENT EXCEEDS	.00		25		8.0	
50 PERCENT EXCEEDS	.00		.00		.00	
90 PERCENT EXCEEDS	.00		.00		.00	

SAN JUAN CREEK BASIN

11046530 SAN JUAN CREEK AT LA NOVIA STREET BRIDGE, AT SAN JUAN CAPISTRANO, CA

LOCATION.--Lat 33°30'09", long 117°38'50", in NW 1/4 SE 1/4 sec.6, T.8 S., R.8 W., Orange County, Hydrologic Unit 18070301, on right bank 20 ft downstream from La Novia Street Bridge, 1.3 mi upstream from Arroyo Trabuco Creek, and 0.8 mi east of San Juan Capistrano.

DRAINAGE AREA.--109 mi².

PERIOD OF RECORD.--October 1985 to current year. October 1985 to September 1986, published as San Juan Creek at San Juan Capistrano.

GAGE.--Water-stage recorder. Elevation of gage is 100 ft above sea level, from topographic map.

REMARKS.--Records fair except for estimated daily discharges, which are poor. No regulation upstream from station. Capistrano Water Co. diverts water 2.0 mi upstream. Various amounts of diverted water reach station as irrigation return flow. October 1928 to September 1969 and October 1969 to September 1985, data published as San Juan Creek near San Juan Capistrano (Station 11046500) and San Juan Creek at San Juan Capistrano (station 11046550), which are located approximately 1.9 mi upstream and 1.0 mi downstream, respectively. Data for these sites are roughly equivalent.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 25,600 ft³/s, estimated, Mar. 5, 1995, gage height, 20.66 ft, from rating curve extended above 3,420 ft³/s; no flow for many days most years.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 200 ft³/s and maximum (*), from rating curve extended as noted above:

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Jan. 4	2215	2,940	17.39	Mar. 5	2200	*25,600	*20.66
Jan. 10	1930	15,200	19.32	Mar. 11	0400	5,690	17.35
Jan. 26	0215	1,100	15.15	Mar. 23	1215	1,310	15.32
Feb. 14	1800	3,410	16.54				

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	45	e68	148	44	23	8.3	4.7	e1.6
2	.00	.00	.00	.00	43	e70	138	42	23	11	4.2	e1.6
3	.00	.00	.00	1.1	42	e71	e120	42	22	10	3.3	e1.6
4	.00	.00	.00	e350	41	80	e110	40	23	12	3.3	e1.6
5	.00	.00	.00	213	38	5700	e106	39	22	12	4.6	e1.6
6	.00	.00	.00	42	37	4340	e101	61	22	10	5.1	e1.6
7	.00	.00	.00	73	37	903	e97	52	21	9.4	5.2	e1.4
8	.00	.00	.00	300	37	629	e91	41	19	8.3	5.0	e1.3
9	.00	.00	.00	142	37	538	e87	39	17	8.7	5.0	e1.3
10	.00	.04	.00	2240	36	457	e82	36	16	7.6	4.7	1.2
11	.00	.00	.00	739	35	2250	e78	35	16	6.2	4.4	1.3
12	.00	.00	.00	339	34	555	e75	35	15	5.4	3.6	1.2
13	.00	.00	.00	142	37	366	e71	40	13	4.7	2.9	1.1
14	.00	.00	.00	79	1020	305	e68	38	13	4.0	2.6	1.3
15	.00	.00	.00	67	496	280	e65	34	14	3.5	e2.0	1.4
16	.00	.00	.00	e60	270	275	e62	35	17	5.1	e1.9	1.8
17	.00	.00	.00	e50	177	244	e60	33	31	5.0	e1.9	2.1
18	.00	.00	.00	e40	119	215	e108	30	21	4.1	e1.8	3.2
19	.00	.00	.00	e35	84	204	77	30	16	4.8	e1.8	2.4
20	.00	.00	.00	25	76	201	58	29	14	4.9	e1.8	3.3
21	.00	.00	.00	27	e75	318	51	29	12	5.8	e1.8	2.9
22	.00	.00	.00	25	e75	252	46	29	10	5.4	e1.8	2.7
23	.00	.00	.00	29	e73	545	43	31	10	5.6	e1.7	2.2
24	.00	.01	.00	76	e70	345	44	32	9.8	6.7	e1.7	2.9
25	.00	.00	.27	371	e68	248	44	35	10	7.8	e1.7	2.6
26	.00	.00	.05	643	e68	224	44	33	11	7.0	e1.7	2.6
27	.00	.00	.00	207	e70	200	44	30	10	6.3	e1.7	2.8
28	.00	.00	.00	88	e70	182	44	30	8.6	5.7	e1.7	1.7
29	.00	.00	.00	57	---	173	44	27	9.5	5.0	e1.7	2.0
30	.00	.00	.00	54	---	158	45	25	8.6	4.8	e1.7	2.4
31	.00	---	.00	48	---	147	---	23	---	5.2	e1.7	---
TOTAL	0.00	0.05	0.32	6562.10	3310	20543	2251	1099	477.5	210.3	88.7	58.7
MEAN	.000	.002	.010	212	118	663	75.0	35.5	15.9	6.78	2.86	1.96
MAX	.00	.04	.27	2240	1020	5700	148	61	31	12	5.2	3.3
MIN	.00	.00	.00	.00	34	68	43	23	8.6	3.5	1.7	1.1
AC-FT	.00	.1	.6	13020	6570	40750	4460	2180	947	417	176	116

e Estimated.

11046530 SAN JUAN CREEK AT LA NOVIA STREET BRIDGE, AT SAN JUAN CAPISTRANO, CA--Continued

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
EAN	.28	1.20	3.31	83.0	74.8	98.5	16.3	6.92	2.85	1.05	.50	.39
AX	2.40	6.29	9.29	590	502	663	75.0	35.5	15.9	6.78	2.86	1.98
WY)	1994	1994	1993	1993	1993	1995	1995	1995	1995	1995	1995	1993
IN	.000	.000	.000	.51	1.17	.55	.037	.000	.000	.000	.000	.000
WY)	1987	1987	1990	1990	1989	1990	1989	1987	1986	1986	1986	1986

UMMARY STATISTICS	FOR 1994 CALENDAR YEAR	FOR 1995 WATER YEAR	WATER YEARS 1986 - 1995
NNUAL TOTAL	2422.56	34600.67	
NNUAL MEAN	6.64	94.8	23.9
IGHEST ANNUAL MEAN			106
OWEST ANNUAL MEAN			.61
IGHEST DAILY MEAN	180	5700	5700
OWEST DAILY MEAN	.00	.00	.00
NNUAL SEVEN-DAY MINIMUM	.00	.00	.00
NSTANTANEOUS PEAK FLOW		25600	25600
NSTANTANEOUS PEAK STAGE		20.66	20.66
NNUAL RUNOFF (AC-FT)	4810	68630	17320
0 PERCENT EXCEEDS	14	179	26
0 PERCENT EXCEEDS	.00	8.7	.59
0 PERCENT EXCEEDS	.00	.00	.00

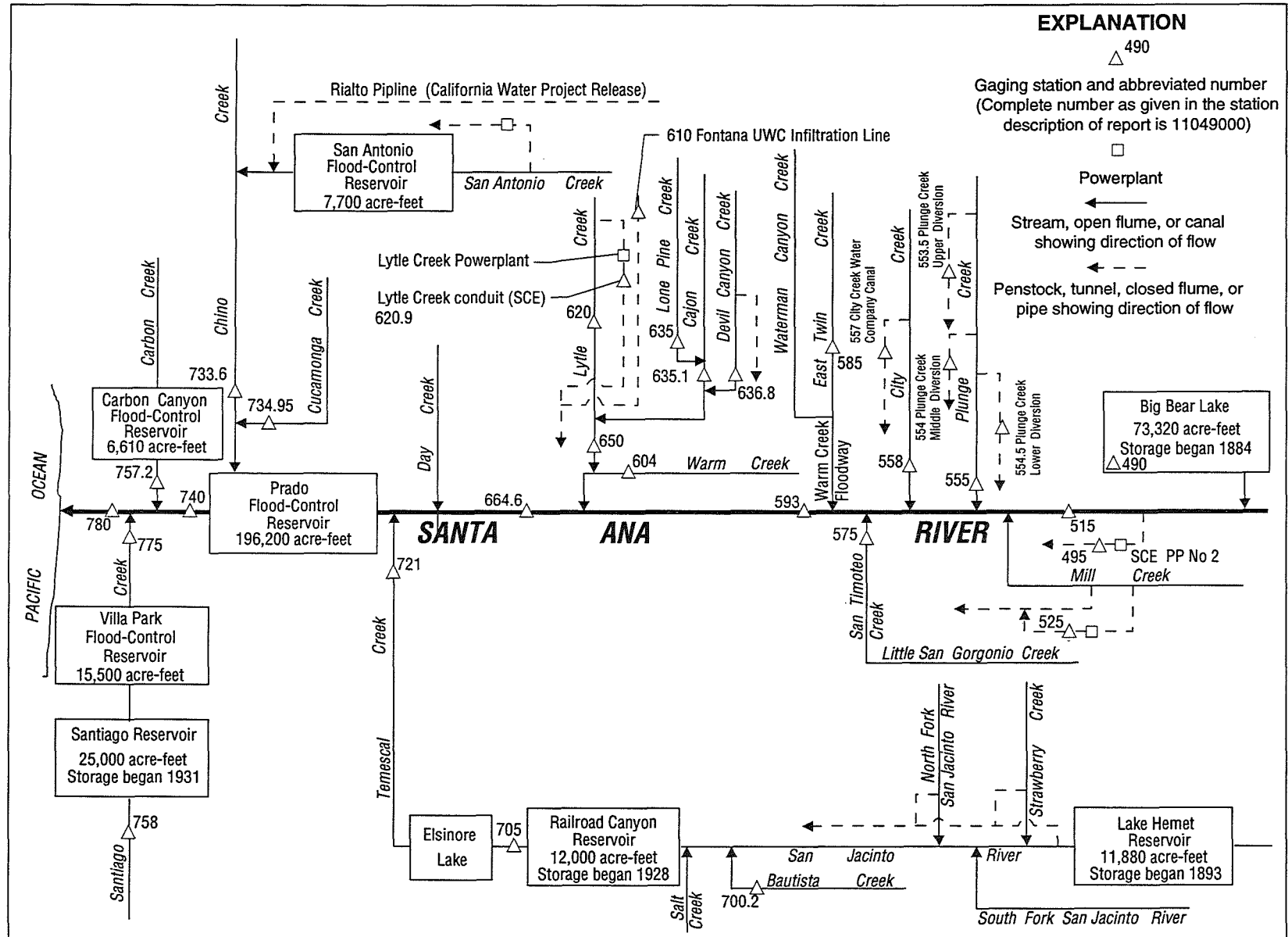


Figure 15. Diversions and storage in Santa Ana River basin.

11049000 BIG BEAR LAKE NEAR BIG BEAR LAKE, CA

LOCATION.--Lat 34°14'33", long 116°58'33", in SW 1/4 sec.22, T.2 N., R.1 W., San Bernardino County, Hydrologic Unit 18070203, at Big Bear Lake Dam on Bear Creek, 4 mi west of town of Big Bear Lake, and 7.5 mi upstream from mouth.

DRAINAGE AREA.--38.9 mi², excludes Baldwin Lake drainage included in reports prior to 1983.

PERIOD OF RECORD.--October 1950 to current year. February 1884 to September 1950 in files of Bear Valley Mutual Water Co.

REVISED RECORDS.--WDR CA-83-1: Drainage area.

GAGE.--Nonrecording gage. Datum of gage is 6,670.9 ft above sea level (levels by Bear Valley Mutual Water Co.). Prior to 1912 at old dam 200 ft upstream at same datum, spillway at elevation 6723.3 ft.

REMARKS.--Lake is formed by multiple-arch concrete dam, completed in 1912, replacing existing lower dam built in 1884; storage began in spring of 1884. Capacity (based on July 1977 resurvey; present capacity table put into use August 1977), 73,320 acre-ft at elevation 6,743.3 ft, top of dam. No dead storage. During the year, 17,380 acre-ft was released. Between November 1994 and March 1995, 739 acre-ft was pumped from the lake for snowmaking. See schematic diagram of Santa Ana River basin.

COOPERATION.--Record of contents provided by Big Bear Municipal Water District.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents unknown, lake spilled in 1969, 1970, 1980, 1983; minimum contents observed, 530 acre-ft, Nov. 24, 1961.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum contents unknown, lake spilled in 1916, 1917, 1922, 1923, 1938, 1939; lake dry October, November 1898, August to November 1899, October, November 1904.

EXTREMES FOR CURRENT YEAR.--Maximum contents observed, 73,220 acre-ft, Feb. 14, 15, Mar. 6; minimum contents observed, 62,450 acre-ft, Dec. 12, 19.

MONTHEND CONTENTS, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

Date	Contents (acre-feet)	Change in Contents (acre-feet)
Sept. 30.....	64,840	--
Oct. 31.....	63,430	-1,410
Nov. 30.....	62,870	-560
Dec. 31.....	62,870	0
CAL YR 1994.....	--	-3,530
Jan. 31.....	69,870	+7,000
Feb. 28.....	71,920	+2,050
Mar. 31.....	71,330	-590
Apr. 30.....	72,930	+1,600
May 31.....	72,930	0
June 30.....	72,210	-720
July 31.....	70,600	-1,610
Aug. 31.....	69,280	-1,320
Sept. 30.....	67,990	-1,290
WTR YR 1995.....	--	+3,150

11051500 SANTA ANA RIVER NEAR MENTONE, CA

LOCATION.--Lat 34°06'30", long 117°05'59", in SW 1/4 SW 1/4 sec.4, T.1 S., R.2 W., San Bernardino County, Hydrologic Unit 18070203, on right bank near mouth of canyon, 1.6 mi upstream from Mill Creek, 3.2 mi northeast of Mentone, and 16 mi downstream from Big Bear Lake.

DRAINAGE AREA.--210 mi², including area tributary to Baldwin Lake at head of Bear Valley.

PERIOD OF RECORD.--July 1896 to current year. Prior to October 1914, records for river only not equivalent owing to Greenspot pipeline diversion between sites and exclusion of discharge from Warm Springs Canyon. Monthly discharge only for January 1910, January and February 1916 published in WSP 1315-B.

REVISED RECORDS.--WSP 931: 1940. WSP 1635: 1918, 1920(M), 1922, 1937, 1943(M). WSP 1928: Drainage area. WSP 2128: 1910.

GAGE.--Three water-stage recorders. Main gage on right bank of river (station 11051499), canal gage on powerhouse diversion (station 11049500), and since 1970, supplementary gage on left bank of river (station 11051502). Elevation of the main and supplementary gages is 1,950 ft above sea level, from topographic map. Prior to Sept. 2, 1917, nonrecording gages at several sites within 1.5 mi upstream at various datums. Sept. 3, 1917, to May 27, 1969, water-stage recorder at site 0.2 mi upstream at different datum. Canal gage at different datum.

REMARKS.--Records fair except for estimated daily discharges, which are poor. Flow partly regulated by Big Bear Lake (station 11049000). The supplementary gage (station 11051502) measures water that is occasionally diverted out of the main channel 250 upstream for water distribution. Flow measured by the supplementary gage is included with the river record to maintain equivalence with records prior to 1970. For records of combined discharge of Santa Ana River and Southern California Edison Co.'s canal below Powerplant No. 2 (station 11049500), which diverts upstream from station, see station 11051501. Prior to Oct. 1, 1952, and since Apr. 26, 1976, Bear Valley Mutual Water Co. pumps water into channel above canal gage. See schematic diagram of Santa Ana River basin.

COOPERATION.--Records for Southern California Edison Co.'s Canal near Mentone (station 11049500) were provided by Southern California Edison Co., under general supervision of the U.S. Geological Survey, in connection with a Federal Energy Regulatory Commission project.

EXTREMES FOR PERIOD OF RECORD.--River only: Maximum discharge, 52,300 ft³/s, Mar. 2, 1938, gage height, 14.3 ft, site and datum then in use, on basis of slope-area measurement of peak flow; no flow at times in some years. Combined river and canal: Maximum discharge, 52,300 ft³/s, Mar. 2, 1938; minimum daily, 5.3 ft³/s, July 22, 1990.

EXTREMES OUTSIDE PERIOD OF RECORD.--Combined river and canal: Flood of Feb. 23, 1891, 53,700 ft³/s, from notes provided by F.C. Finkle, consulting engineer, Los Angeles.

EXTREMES FOR CURRENT YEAR.--River only: Maximum discharge, 9,000 ft³/s, Mar. 5; minimum daily, 0.23 ft³/s, Oct. 1-3. Combined river and canal: Maximum discharge, 9,000 ft³/s, Mar. 5; minimum daily, 28 ft³/s, Oct. 11, 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	e.23	4.0	12	3.7	36	68	210	203	83	44	9.5	5.0
2	e.23	3.0	10	3.4	32	55	200	192	75	43	8.0	5.3
3	e.23	2.9	7.5	3.1	28	69	190	181	69	43	7.1	5.6
4	e2.0	4.3	6.6	34	26	102	192	176	73	41	5.0	5.7
5	7.7	10	5.9	239	25	e1840	191	177	74	39	4.7	5.8
6	11	11	11	96	24	e1820	163	195	69	38	5.1	5.7
7	8.3	11	30	189	21	e1820	122	202	63	38	5.5	5.7
8	4.6	9.6	19	420	19	1180	103	184	63	36	5.5	5.5
9	4.1	21	6.1	223	18	737	98	173	61	34	4.9	5.4
10	3.4	28	4.2	736	17	488	103	169	57	34	5.0	4.9
11	3.5	20	4.4	961	16	1190	117	168	57	32	4.9	6.0
12	3.5	19	5.1	413	16	742	92	167	57	e28	4.9	6.0
13	3.2	18	6.6	268	36	585	92	149	60	e27	4.9	6.5
14	3.6	17	6.6	197	1370	526	87	146	63	e25	4.9	6.8
15	3.8	17	5.3	230	1420	494	81	146	74	e24	5.1	7.2
16	3.8	17	3.4	187	1090	458	90	142	90	e23	4.8	6.7
17	3.9	16	3.4	156	422	419	84	138	86	e21	5.3	6.8
18	4.1	17	3.3	135	307	485	82	131	72	e19	5.3	7.1
19	6.6	16	3.1	122	262	623	92	128	65	e17	5.6	7.7
20	7.7	16	2.9	79	239	657	88	128	67	e16	5.6	7.5
21	8.0	15	2.8	63	226	791	84	128	48	e14	5.8	7.6
22	7.0	15	2.7	56	199	723	82	131	45	17	6.7	7.3
23	7.0	15	2.8	33	176	447	80	134	43	15	5.9	6.8
24	7.0	15	3.4	55	168	452	79	135	41	14	5.7	6.1
25	7.0	15	6.6	80	157	624	79	133	41	20	5.7	6.2
26	5.7	18	4.9	140	154	608	82	132	41	16	5.4	5.7
27	4.3	17	4.0	91	141	465	85	108	44	13	5.3	5.7
28	4.4	16	4.0	68	97	260	147	81	43	13	5.4	5.7
29	4.8	16	5.6	55	---	241	178	78	44	10	5.5	5.7
30	4.8	14	4.3	47	---	231	206	77	44	9.8	4.7	5.7
31	5.0	---	3.9	40	---	218	---	78	---	17	4.9	---
TOTAL	150.49	433.8	201.4	5423.2	6742	19218	3579	4510	1812	780.8	172.6	185.4
MEAN	4.85	14.5	6.50	175	241	620	119	145	60.4	25.2	5.57	6.18
MAX	11	28	30	961	1420	1840	210	203	90	44	9.5	7.7
MIN	.23	2.9	2.7	3.1	16	55	79	77	41	9.8	4.7	4.9
AC-FT	298	860	399	10760	13370	38120	7100	8950	3590	1550	342	368

e Estimated.

11051500 SANTA ANA RIVER NEAR MENTONE, CA--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1915 - 1995, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	4.81	8.46	25.5	42.1	82.2	98.1	64.7	46.2	21.6	11.2	6.21	6.27
MAX	77.8	206	536	646	1052	1405	413	411	277	174	124	134
(WY)	1970	1966	1967	1993	1980	1938	1969	1969	1969	1969	1969	1969
MIN	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
(WY)	1934	1934	1949	1936	1961	1951	1959	1959	1959	1934	1934	1933

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR				FOR 1995 WATER YEAR				WATER YEARS 1915 - 1995			
ANNUAL TOTAL	3182.54				43208.69							
ANNUAL MEAN	8.72				118				33.3			
HIGHEST ANNUAL MEAN									283			
LOWEST ANNUAL MEAN									.012			
HIGHEST DAILY MEAN	279				Feb 8				1840			
LOWEST DAILY MEAN	.13				Sep 5				Mar 5			
ANNUAL SEVEN-DAY MINIMUM	.16				Aug 21				Oct 1			
INSTANTANEOUS PEAK FLOW					3.0				Dec 17			
INSTANTANEOUS PEAK STAGE					9000				Mar 5			
ANNUAL RUNOFF (AC-FT)	6310				85700				52300			
10 PERCENT EXCEEDS	16				240				14.30			
50 PERCENT EXCEEDS	6.1				28				24140			
90 PERCENT EXCEEDS	.28				4.4				75			
									1.8			
									.00			

11051501 SANTA ANA RIVER NEAR MENTONE, CA--Continued

COMBINED DISCHARGE, IN CUBIC FEET PER SECOND, OF SANTA ANA RIVER AND
SOUTHERN CALIFORNIA EDISON CO.'S CANAL NEAR MENTONE, CA
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	e33	37	e43	38	119	119	213	286	153	134	77	61
2	e33	34	e41	37	118	114	203	274	148	133	74	64
3	e33	33	36	44	116	137	191	263	142	133	74	65
4	e38	34	35	63	111	170	194	256	144	131	71	62
5	48	45	35	241	107	e1870	194	258	144	127	71	60
6	45	48	40	107	105	e1820	189	271	143	128	70	61
7	38	48	58	198	102	e1620	187	279	140	128	69	61
8	32	42	46	421	100	1180	195	263	139	126	68	60
9	30	51	34	226	96	738	195	253	134	123	68	59
10	29	60	33	737	90	489	178	248	129	123	68	59
11	28	49	33	962	86	1190	171	247	129	120	68	60
12	28	47	34	414	84	744	180	239	129	e116	67	59
13	30	47	37	268	108	587	181	208	130	e110	67	58
14	33	46	37	198	1370	527	184	203	127	e110	67	59
15	33	46	34	231	1420	495	179	208	137	e110	66	59
16	32	46	33	188	1090	459	190	214	171	e111	66	60
17	32	45	33	165	423	420	182	213	165	e105	67	60
18	32	47	33	155	308	486	184	207	146	e101	66	60
19	43	44	33	152	263	624	193	205	138	e102	66	60
20	45	46	33	121	240	658	189	205	136	e98	68	59
21	46	45	33	103	227	792	183	205	140	e95	79	60
22	42	44	33	101	213	725	179	208	137	98	76	59
23	42	44	35	105	199	450	175	211	135	94	69	59
24	42	44	41	139	193	455	173	212	133	84	66	58
25	42	44	52	169	185	627	173	210	133	90	64	58
26	41	51	45	229	180	611	175	207	132	86	62	58
27	39	48	41	179	167	468	178	183	133	81	62	58
28	39	47	39	154	130	263	234	155	133	82	61	59
29	41	46	44	138	---	244	261	151	135	78	60	59
30	41	44	39	128	---	234	290	149	134	68	60	58
31	41	---	38	123	---	221	---	148	---	81	59	---
TOTAL	1151	1352	1181	6535	7950	19537	5793	6839	4169	3306	2096	1792
MEAN	37.1	45.1	38.1	211	284	630	193	221	139	107	67.6	59.7
MAX	48	60	58	962	1420	1870	290	286	171	134	79	65
MIN	28	33	33	37	84	114	171	148	127	68	59	58
AC-FT	2280	2680	2340	12960	15770	38750	11490	13570	8270	6560	4160	3550

e Estimated.

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	49.3	45.6	58.9	92.3	124	138	118	100	74.4	63.6	57.4	54.9
MAX	122	219	538	1439	1052	1402	413	450	277	175	124	137
(WY)	1984	1966	1967	1916	1980	1938	1969	1983	1969	1922	1969	1969
MIN	10.4	12.5	14.4	19.0	18.3	21.6	20.6	19.2	15.1	9.36	9.91	9.75
(WY)	1991	1991	1991	1991	1991	1965	1961	1961	1989	1990	1990	1990

SUMMARY STATISTICS

FOR 1994 CALENDAR YEAR

FOR 1995 WATER YEAR

WATER YEARS 1912 - 1995

ANNUAL TOTAL	18019	61701	
ANNUAL MEAN	49.4	169	81.2
HIGHEST ANNUAL MEAN			366
LOWEST ANNUAL MEAN			18.6
HIGHEST DAILY MEAN	280	Feb 8	16000
LOWEST DAILY MEAN	11	Aug 29	5.3
ANNUAL SEVEN-DAY MINIMUM	21	Sep 7	8.1
INSTANTANEOUS PEAK FLOW			52300
ANNUAL RUNOFF (AC-FT)	35740	122400	58820
10 PERCENT EXCEEDS	71	272	138
50 PERCENT EXCEEDS	45	107	49
90 PERCENT EXCEEDS	27	37	24

11052500 MILL CREEK POWER CANALS NOS. 2 AND 3 NEAR YUCAIPA, CA

LOCATION.--Lat 34°05'18", long 117°02'19", in NW 1/4 NE 1/4 sec.13, T.1 S., R.2 W., San Bernardino County, Hydrologic Unit 18070203, on right bank 600 ft downstream from bridge on Mill Creek Road and 3.9 mi north of Yucaipa.

PERIOD OF RECORD.--October 1973 to September 1986, October 1993 to current year. Records for January 1919 to September 1973 available in files of the U.S. Geological Survey.

GAGE.--Water-stage recorder and Parshall flume. Elevation of gage is 2,930 ft above sea level, from topographic map.

REMARKS.--Mill Creek Power Canals Nos. 2 and 3 divert from points 3 mi and 6 mi upstream from station, respectively. Canal No. 2, damaged during earthquake in 1992, was not used during the 1995 Water Year. Due to construction at confluence area of canals 2 and 3 (AVM in process of being installed), auxiliary gage was used for Canal No. 3, near intake. See schematic diagram of Santa Ana River basin.

COOPERATION.--Records were provided by Southern California Edison Co., under general supervision of the U.S. Geological Survey, in connection with a Federal Regulatory Commission project.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 41 ft³/s, May 6, 1995; no flow at times in some years.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 41 ft³/s, May 6; no flow on Mar. 16.

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	10	10	9.9	23	13	e29	e38	29	28	24	22
2	11	10	10	9.9	17	18	e29	e38	29	28	24	22
3	11	11	10	11	23	25	e29	39	29	27	24	22
4	11	10	10	11	25	25	e30	39	29	27	24	21
5	6.4	11	9.9	.67	25	8.4	e30	40	29	27	24	21
6	7.5	11	9.9	7.8	26	.38	e30	41	29	26	24	21
7	11	10	9.9	9.9	25	.25	e30	39	29	27	24	21
8	11	11	9.7	.12	25	.28	e32	38	28	27	24	21
9	11	10	9.9	.12	25	.24	e32	36	27	27	23	21
10	11	11	9.9	.19	25	.22	e32	33	27	27	22	21
11	11	11	9.9	.23	25	.27	e33	30	27	26	22	21
12	11	11	9.9	.43	25	.25	e33	31	28	27	22	21
13	11	11	9.9	.22	21	.24	e34	30	29	26	24	20
14	11	11	9.7	.22	.31	.69	e34	29	29	26	24	20
15	11	11	9.9	3.8	.27	.03	e34	28	29	25	24	20
16	11	11	9.9	.19	.86	.00	e34	28	30	25	24	20
17	11	10	9.9	8.9	5.7	15	e34	28	30	25	24	20
18	11	11	9.7	16	18	23	e34	28	29	25	24	20
19	11	10	9.7	16	24	23	e34	28	28	25	22	20
20	11	10	9.7	16	26	23	e34	29	28	25	23	20
21	10	10	9.7	17	22	23	e34	29	27	25	23	20
22	10	10	9.8	16	19	22	e34	29	27	25	22	20
23	10	10	11	8.5	17	22	e34	29	28	24	22	20
24	10	10	14	1.5	18	21	e34	29	30	24	22	19
25	10	10	12	1.2	17	22	e34	29	29	24	23	19
26	10	10	11	1.0	16	21	e35	29	29	23	23	19
27	10	10	11	1.0	15	22	e38	29	28	24	23	19
28	9.9	10	11	12	13	23	e38	29	28	24	22	19
29	10	10	10	20	---	e24	e38	28	28	24	23	19
30	10	10	10	21	---	e27	e38	28	28	23	22	19
31	10	---	10	23	---	e28	---	28	---	23	22	---
TOTAL	321.8	312	316.9	244.79	522.14	431.25	998	986	854	789	717	608
MEAN	10.4	10.4	10.2	7.90	18.6	13.9	33.3	31.8	28.5	25.5	23.1	20.3
MAX	11	11	14	23	26	28	38	41	30	28	24	22
MIN	6.4	10	9.7	.12	.27	.00	29	28	27	23	22	19
AC-FT	638	619	629	466	1040	855	1980	1960	1690	1560	1420	1210

e Estimated.

SANTA ANA RIVER BASIN

11052500 MILL CREEK POWER CANALS NOS. 2 AND 3 NEAR YUCAIPA, CA--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1974 - 1995, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	17.4	16.6	16.1	16.4	17.3	19.5	22.6	23.4	22.0	19.3	18.2	17.9
MAX	26.8	23.5	23.9	26.6	27.8	30.1	33.3	31.8	28.7	29.2	30.2	27.9
(WY)	1981	1979	1979	1979	1979	1979	1995	1995	1979	1980	1980	1978
MIN	9.77	8.43	9.86	7.90	12.4	13.7	15.6	15.9	12.4	11.5	9.10	10.4
(WY)	1988	1989	1989	1985	1976	1976	1977	1989	1989	1989	1989	1988

SUMMARY STATISTICS

FOR 1994 CALENDAR YEAR

FOR 1995 WATER YEAR

WATER YEARS 1974 - 1995

ANNUAL TOTAL	5673.93			7100.88					
ANNUAL MEAN	15.5			19.5			18.9		
HIGHEST ANNUAL MEAN							26.2		
LOWEST ANNUAL MEAN							12.6		
HIGHEST DAILY MEAN	25			41			41		
LOWEST DAILY MEAN	.13			.00			.00		
ANNUAL SEVEN-DAY MINIMUM	8.5			.22			.12		
ANNUAL RUNOFF (AC-FT)	11250			14080			13700		
10 PERCENT EXCEEDS	24			30			28		
50 PERCENT EXCEEDS	15			22			18		
90 PERCENT EXCEEDS	10			9.7			12		

11055500 PLUNGE CREEK NEAR EAST HIGHLANDS, CA

LOCATION.--Lat 34°07'06", long 117°08'27", in NE 1/4 NE 1/4 sec.1, T.1 S., R.3 W., San Bernardino County, Hydrologic Unit 18070203, on left bank at mouth of canyon at crossing of North Fork Ditch siphon, and 1.8 mi northeast of East Highlands.

DRAINAGE AREA.--16.9 mi².

PERIOD OF RECORD.--January 1919 to current year; combined records of creek and diversions, March 1951 to current year.

REVISED RECORDS.--WSP 1635: 1924, 1926, 1935-36(M), 1943, 1944(M), 1945, 1946(M), 1947, 1950(M).

WSP 1715: 1956-58(M). WSP 1928: Drainage area.

GAGE.--Water-stage recorder on creek. Since March 1951 water-stage recorder and weir on upper diversion, discontinued Sept. 30, 1991, reactivated July 27, 1993; water-stage recorder and concrete-lined canal on middle diversion; crest-stage gage and sharp-crested weir on lower diversion. Elevation of creek gage is 1,590 ft above sea level, from topographic map. Prior to Oct. 1, 1969, creek gage at datum 4.00 ft higher. Diversions all at different datums.

REMARKS.--No estimated daily discharges. Records fair. No regulation upstream from station. Diversion from Alder Creek to Upper Plunge Creek area was active 1904-67. Diversions for irrigation are made at sites 0.5 (station 11055450), 1.0 (station 11055400), and 2.5 mi (station 11055350) upstream from streamflow station. Water has been diverted upstream from station for irrigation during entire period of record. Combined discharge of Plunge Creek and diversions is given on following page. No flow in lower diversion since May 29, 1966. See schematic diagram of Santa Ana River basin.

EXTREMES FOR PERIOD OF RECORD.--Creek only: Maximum discharge, 5,340 ft³/s, Mar. 2, 1938, on basis of slope-area measurement of peak flow; no flow at times in some years.

Combined creek and diversions: Maximum discharge, 4,770 ft³/s, Dec. 6, 1966; no flow Nov. 12, 1964,

Sept. 29, 1965, Aug. 4, 1987, several days in November 1988, September 1991, many days in 1992.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 200 ft³/s and maximum (*):

Date	Time	Creek only		Combined creek and diversions
		Discharge (ft ³ /s)	Gage height (ft)	Discharge (ft ³ /s)
Jan. 5	0115	275	4.49	275
Jan. 10	1730	998	5.75	998
Feb. 14	0915	352	4.68	352
Mar. 5	2030	*1,470	*6.27	*1,470
Mar. 11	1015	462	4.92	462
Mar. 21	1230	201	4.27	201

Creek only: No flow for several days.

Combined creek and diversions: Minimum daily, 0.71 ft³/s, Nov. 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	.00	.00	.15	2.5	22	18	34	12	7.0	3.2	.37	.09
2	.00	.00	.11	2.5	21	18	31	12	7.6	3.3	.24	.10
3	.00	.00	.43	4.1	19	25	30	11	7.7	3.3	.24	.11
4	.00	.00	.45	28	17	30	28	11	7.3	3.5	.25	.10
5	.00	.01	.59	125	16	536	27	12	6.9	3.4	.24	.06
6	.00	.00	.99	21	14	403	26	14	6.5	3.3	.22	.06
7	.00	.00	.18	79	13	113	26	12	6.6	3.2	.22	.06
8	.00	.00	.40	260	13	97	25	13	6.5	3.0	.21	.06
9	.00	.00	.56	130	12	72	24	13	5.9	2.9	.24	.07
10	.00	.97	1.6	327	11	61	23	11	5.4	2.3	.25	.08
11	.00	2.1	1.6	284	11	245	22	10	5.0	1.9	.25	.08
12	.00	1.9	1.4	115	10	206	22	11	4.6	2.0	.25	.07
13	.00	1.8	.26	52	35	131	21	12	4.1	1.9	.24	.06
14	.00	1.5	.23	35	199	108	21	12	4.1	1.9	.22	.06
15	.00	.08	.27	51	100	85	19	12	6.0	1.8	.21	.05
16	.00	.00	.48	41	67	73	22	11	21	2.0	.22	.05
17	.00	.10	.80	33	40	63	22	11	16	2.1	.24	.05
18	.00	.49	1.7	27	35	51	21	10	10	2.0	.23	.06
19	.00	.06	1.7	23	32	47	20	9.3	8.4	1.9	.22	.12
20	.00	.76	1.6	20	29	43	20	9.0	6.6	1.4	.22	.30
21	.00	.30	1.5	20	27	86	19	8.9	5.5	.54	.23	.34
22	.00	.74	1.5	17	25	61	18	9.5	5.2	.55	.24	.35
23	.00	.03	1.8	18	23	71	17	10	4.8	.55	.24	.34
24	.00	.00	3.3	43	22	63	16	9.9	4.5	.57	.17	.36
25	.00	.00	7.0	50	21	57	15	9.6	4.3	.59	.10	.38
26	.00	2.1	3.7	67	20	48	14	8.9	4.4	.58	.10	.42
27	.00	2.2	2.9	48	19	41	13	9.6	3.8	.54	.09	.45
28	.00	1.5	2.7	38	18	39	12	9.9	3.4	.50	.09	.49
29	.00	.26	4.2	31	---	38	12	8.2	3.4	.54	.08	1.0
30	.00	.20	3.0	27	---	36	12	7.1	3.3	.57	.08	2.1
31	.00	---	2.7	24	---	34	---	6.7	---	.52	.08	---
TOTAL	0.00	17.10	49.80	2043.1	891	2999	632	326.6	195.8	56.35	6.28	7.92
MEAN	.000	.57	1.61	65.9	31.8	96.7	21.1	10.5	6.53	1.82	.20	.26
MAX	.00	2.2	7.0	327	199	536	34	14	21	3.5	.37	2.1
MIN	.00	.00	.11	2.5	10	18	12	6.7	3.3	.50	.08	.05
AC-FT	.00	.34	99	4050	1770	5950	1250	648	388	112	12	16

SANTA ANA RIVER BASIN

11055500 PLUNGE CREEK NEAR EAST HIGHLANDS, CA--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1919 - 1995, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	.25	1.91	6.63	12.6	21.8	23.1	12.8	3.73	.94	.26	.15	.33
MAX	3.47	44.7	106	170	224	176	74.2	30.2	9.96	3.87	4.87	10.9
(WY)	1984	1966	1967	1993	1969	1938	1958	1983	1983	1983	1983	1978
MIN	.000	.000	.000	.003	.000	.029	.000	.000	.000	.000	.000	.000
(WY)	1920	1921	1930	1963	1961	1961	1961	1919	1919	1919	1919	1919
SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR					FOR 1995 WATER YEAR				WATER YEARS 1919 - 1995		
ANNUAL TOTAL	933.83					7224.95						
ANNUAL MEAN	2.56					19.8				7.01		
HIGHEST ANNUAL MEAN										42.5		
LOWEST ANNUAL MEAN										.050		
HIGHEST DAILY MEAN	61					536				1840		
LOWEST DAILY MEAN	.00					.00				.00		
ANNUAL SEVEN-DAY MINIMUM	.00					.00				.00		
INSTANTANEOUS PEAK FLOW						1470				5340		
INSTANTANEOUS PEAK STAGE						6.27						
ANNUAL RUNOFF (AC-FT)	1850					14330				5080		
10 PERCENT EXCEEDS	7.3					45				14		
50 PERCENT EXCEEDS	.92					3.4				.10		
90 PERCENT EXCEEDS	.00					.00				.00		

11055501 PLUNGE CREEK NEAR EAST HIGHLANDS, CA--Continued

PLUNGE CREEK AND DIVERSIONS NEAR EAST HIGHLAND, CA,
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	.93	1.1	1.4	2.5	22	18	34	14	9.6	5.2	2.5	1.5
2	.91	1.3	1.4	2.5	21	18	31	15	10	5.3	2.5	1.7
3	1.0	1.2	1.6	4.1	19	25	30	14	10	5.3	2.4	1.6
4	1.2	1.2	1.5	28	17	30	28	14	9.6	5.7	2.3	1.5
5	1.2	1.3	1.5	125	16	536	27	15	9.1	5.3	2.2	1.4
6	.93	1.3	2.1	21	14	404	26	17	8.8	5.0	2.2	1.5
7	.99	1.3	1.5	79	13	113	26	15	9.0	4.9	2.1	1.5
8	1.1	1.3	1.7	260	13	97	25	16	9.0	4.6	2.0	1.5
9	1.0	1.3	1.1	130	12	72	24	16	8.3	4.4	2.0	1.5
10	1.0	1.7	1.6	327	11	61	23	14	7.7	4.2	2.0	1.6
11	1.0	2.1	1.6	284	11	245	22	13	7.1	3.9	1.9	1.6
12	1.1	1.9	1.9	115	10	206	22	13	6.8	3.9	1.8	1.5
13	1.2	1.8	1.5	52	35	131	21	14	6.3	3.6	1.8	1.5
14	1.3	2.1	1.5	35	199	108	22	14	6.3	3.6	1.7	1.5
15	1.2	1.3	1.6	51	100	85	21	14	8.5	3.5	1.8	1.4
16	1.1	1.2	1.4	41	67	73	24	13	23	4.1	1.8	1.5
17	1.1	1.1	1.1	33	40	63	24	13	17	4.0	1.9	1.4
18	1.1	1.6	1.7	27	35	51	23	12	11	3.6	1.9	1.5
19	1.2	1.1	1.7	23	32	47	22	11	9.7	3.4	1.8	1.4
20	1.2	1.6	1.6	20	29	43	22	11	8.6	3.3	1.9	1.5
21	1.2	.71	1.5	20	27	86	21	11	7.8	3.1	1.9	1.6
22	1.2	1.6	1.5	17	25	61	20	12	7.3	3.1	2.0	1.6
23	1.2	1.3	1.8	18	23	71	19	12	6.9	3.3	1.8	1.6
24	1.2	1.3	3.3	43	22	63	17	12	6.5	3.3	1.7	1.7
25	1.3	1.3	7.0	50	21	57	16	12	6.2	3.2	1.6	1.7
26	1.3	2.8	3.7	67	20	48	16	11	6.3	3.2	1.6	1.7
27	1.2	2.9	2.9	48	19	41	16	12	5.9	2.8	1.6	1.7
28	1.2	2.5	2.7	38	18	39	15	12	5.5	2.6	1.6	1.8
29	1.3	1.6	4.2	31	---	38	15	11	5.5	2.5	1.5	1.5
30	1.3	1.4	3.0	27	---	36	15	9.6	5.3	2.5	1.5	2.1
31	1.2	---	2.7	24	---	34	---	9.2	---	2.4	1.5	---
TOTAL	35.36	46.21	65.3	2043.1	891	3000	667	401.8	258.6	118.8	58.8	47.1
MEAN	1.14	1.54	2.11	65.9	31.8	96.8	22.2	13.0	8.62	3.83	1.90	1.57
MAX	1.3	2.9	7.0	327	199	536	34	17	23	5.7	2.5	2.1
MIN	.91	.71	1.1	2.5	10	18	15	9.2	5.3	2.4	1.5	1.4
AC-FT	70	92	130	4050	1770	5950	1320	797	513	236	117	93

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	1.39	3.49	7.84	17.7	23.5	25.4	14.2	6.97	3.53	1.82	1.32	1.47
MAX	7.23	45.2	106	170	224	126	79.0	31.9	14.2	7.44	7.43	14.1
(WY)	1984	1966	1967	1993	1969	1978	1958	1983	1980	1980	1983	1978
MIN	.033	.003	.77	1.00	1.50	1.62	1.33	.97	.63	.26	.028	.011
(WY)	1992	1992	1963	1963	1961	1961	1961	1961	1961	1992	1992	1992

SUMMARY STATISTICS FOR 1994 CALENDAR YEAR FOR 1995 WATER YEAR WATER YEARS 1951 - 1995

ANNUAL TOTAL	1348.27	7633.07	
ANNUAL MEAN	3.69	20.9	
HIGHEST ANNUAL MEAN			9.02
LOWEST ANNUAL MEAN			44.4
HIGHEST DAILY MEAN	61	536	1840
LOWEST DAILY MEAN	.71	.71	.00
ANNUAL SEVEN-DAY MINIMUM	.82	1.0	.00
INSTANTANEOUS PEAK FLOW		1470	4770
ANNUAL RUNOFF (AC-FT)	2670	15140	6530
10 PERCENT EXCEEDS	7.7	45	16
50 PERCENT EXCEEDS	1.8	5.3	2.3
90 PERCENT EXCEEDS	.92	1.3	.60

11055800 CITY CREEK NEAR HIGHLAND, CA

LOCATION.--Lat 34°08'38", long 117°11'16", in SW 1/4 NW 1/4 sec.27, T.1 N., R.3 W., San Bernardino County, Hydrologic Unit 18070203, on right bank 0.6 mi upstream from Highland Avenue and 1.5 mi northeast of Highland. DRAINAGE AREA.--19.6 mi².

PERIOD OF RECORD.--October 1919 to current year; combined records of creek and City Creek Water Co.'s canal, June 1924 to September 1986, October 1988 to current year.

REVISED RECORDS.--WSP 1635: 1920(M), 1923(M), 1937(M), 1939(M), 1946. WSP 1928: Drainage area.

WDR CA-93-1: Peak base discharge.

GAGE.--Water-stage recorder on creek; water-stage recorder on canal. Elevation of creek gage is 1,580 ft above sea level, from topographic map. Prior to Mar. 1, 1939, at site 0.2 mi downstream at different datum. Canal gage at different datum.

REMARKS.--No estimated daily discharges. Records fair. No regulation upstream from station. City Creek Water Co.'s canal (station 11055700) diverted from a site 0.5 mi upstream from station for irrigation throughout period of record until Sept. 30, 1986, and resumed diversion on Mar. 31, 1989. Diversion canal damaged by storms of January 1993, with no flow in canal from January 14, 1993 to April 5, 1995. See schematic diagram of Santa Ana River basin. Combined discharge of City Creek and canal is given on following page.

EXTREMES FOR PERIOD OF RECORD.--Creek only: Maximum discharge, 7,000 ft³/s, Feb. 25, 1969, gage height, 9.39 ft, from rating curve extended above 580 ft³/s on basis of slope-area measurement at gage height 8.82 ft; no flow for many days in some years.

Combined creek and canal: Maximum discharge, 7,000 ft³/s, Feb. 25, 1969; no flow at times in some years.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 110 ft³/s and maximum (*):

Date	Time	Creek only		Combined creek and canal	
		Discharge (ft ³ /s)	Gage height (ft)	Discharge (ft ³ /s)	
Jan. 4	2345	294	5.34	294	
Jan. 10	1745	1,030	6.74	1,030	
Jan. 25	1915	177	4.82	177	
Feb. 14	1815	251	5.13	251	
Mar. 5	2045	*2,260	*7.97	*2,260	
Mar. 11	0900	906	6.57	906	
Mar. 21	1230	215	5.19	215	

Creek only: Minimum daily, 0.29 ft³/s, Oct. 1.

Combined creek and canal: Minimum daily, 0.29 ft³/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	.29	1.6	3.6	4.0	28	22	53	21	13	7.9	5.1	2.9
2	.38	1.9	3.6	3.8	26	22	51	21	14	8.1	5.0	3.4
3	.45	2.5	3.6	7.4	23	31	48	22	14	8.1	4.7	3.2
4	.90	2.5	3.7	73	21	38	45	22	13	8.4	4.6	3.0
5	6.2	2.5	3.7	117	20	719	44	22	12	7.8	4.5	2.9
6	3.0	2.4	3.8	26	18	552	42	23	12	7.3	4.3	2.9
7	1.7	2.4	4.0	50	17	187	41	21	12	7.0	4.1	2.9
8	1.2	2.7	4.2	129	17	124	40	21	11	8.2	4.0	2.8
9	.97	2.8	4.3	84	16	99	36	20	11	8.3	3.9	2.9
10	.94	6.1	4.3	284	15	84	33	18	10	6.2	3.9	3.0
11	.96	4.0	4.3	277	15	449	31	17	9.8	5.5	3.9	2.9
12	1.1	3.0	4.3	99	14	264	30	18	9.4	5.8	3.7	2.7
13	1.3	2.8	4.8	60	29	168	29	18	9.2	5.8	3.7	2.4
14	1.7	2.6	4.6	42	181	132	29	18	9.3	5.7	3.6	2.3
15	2.0	2.6	4.4	47	108	112	28	17	12	5.9	3.7	2.2
16	1.9	2.7	4.3	38	68	98	32	17	20	7.9	3.7	2.4
17	1.6	2.9	4.1	32	54	86	30	17	17	7.8	3.9	2.6
18	1.7	3.6	3.9	27	45	77	29	16	12	6.8	3.9	2.6
19	1.6	3.3	3.8	24	39	70	28	15	11	5.6	3.7	2.6
20	1.5	3.1	3.7	21	35	64	27	15	10	4.9	3.6	2.5
21	1.5	3.1	3.7	20	33	103	26	14	10	4.8	4.1	2.6
22	1.5	3.0	3.7	18	30	81	24	15	9.6	4.8	5.5	2.6
23	1.5	3.1	4.4	19	28	109	23	16	9.1	5.2	4.3	2.6
24	1.5	3.1	8.5	63	27	102	22	16	8.7	6.3	3.8	2.7
25	1.7	3.2	17	86	26	91	22	15	8.6	6.1	3.5	2.7
26	1.9	7.3	8.5	116	24	80	22	15	8.8	5.7	3.4	2.9
27	1.7	5.3	5.8	76	23	73	22	14	8.6	5.4	3.3	3.0
28	1.5	3.9	5.0	57	22	68	22	15	8.2	5.0	3.2	3.2
29	1.7	3.7	6.9	46	---	64	23	15	8.2	4.7	3.1	3.8
30	1.9	3.6	4.9	38	---	60	23	13	8.2	4.9	3.0	3.3
31	1.5	---	4.4	32	---	56	---	12	---	5.0	2.9	---
TOTAL	49.29	97.3	153.8	2016.2	1002	4285	955	539	329.7	196.9	121.6	84.5
MEAN	1.59	3.24	4.96	65.0	35.8	138	31.8	17.4	11.0	6.35	3.92	2.82
MAX	6.2	7.3	17	284	181	719	53	23	20	8.4	5.5	3.8
MIN	.29	1.6	3.6	3.8	14	22	22	12	8.2	4.7	2.9	2.2
AC-FT	98	193	305	4000	1990	8500	1890	1070	654	391	241	168

11055800 CITY CREEK NEAR HIGHLAND, CA--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1920 - 1995, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	1.03	3.38	8.75	16.6	30.8	30.2	18.1	7.18	2.66	1.00	.58	.61
MAX	8.48	43.4	89.5	199	451	219	148	44.6	21.7	11.7	9.56	5.70
(WY)	1984	1966	1967	1993	1969	1938	1926	1983	1983	1980	1983	1976
MIN	.000	.000	.000	.13	.35	.18	.033	.000	.000	.000	.000	.000
(WY)	1927	1922	1930	1936	1924	1926	1934	1934	1924	1924	1920	1920

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR				FOR 1995 WATER YEAR				WATER YEARS 1920 - 1995			
ANNUAL TOTAL	1651.28				9830.29							
ANNUAL MEAN	4.52				26.9				9.96			
HIGHEST ANNUAL MEAN									75.3			
LOWEST ANNUAL MEAN									.46			
HIGHEST DAILY MEAN	60	Feb	8		719	Mar	5		3360	Feb	25	1969
LOWEST DAILY MEAN	.16	Sep	11		.29	Oct	1		.00	Jul	18	1920
ANNUAL SEVEN-DAY MINIMUM	.18	Sep	7		1.2	Oct	7		.00	Jul	18	1920
INSTANTANEOUS PEAK FLOW					2260	Mar	5		7000	Feb	25	1969
INSTANTANEOUS PEAK STAGE					7.97	Mar	5		9.39	Feb	25	1969
ANNUAL RUNOFF (AC-FT)	3280				19500				7210			
10 PERCENT EXCEEDS	8.6				66				19			
50 PERCENT EXCEEDS	3.7				8.2				1.2			
90 PERCENT EXCEEDS	.31				2.4				.00			

11055801 CITY CREEK NEAR HIGHLAND, CA--Continued

COMBINED DISCHARGE, IN CUBIC FEET PER SECOND, OF CITY CREEK AND CITY CREEK
WATER CO.'S CANAL NEAR HIGHLAND, CA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.29	1.6	3.6	4.0	28	22	53	22	16	9.8	5.3	2.9
2	.38	1.9	3.6	3.8	26	22	51	22	17	10	5.2	3.4
3	.45	2.5	3.6	7.4	23	31	48	23	17	10	4.9	3.2
4	.90	2.5	3.7	73	21	38	45	23	16	10	4.8	3.0
5	6.2	2.5	3.7	117	20	719	44	23	15	9.6	4.7	2.9
6	3.0	2.4	3.8	26	18	552	43	26	15	8.9	4.5	2.9
7	1.7	2.4	4.0	50	17	187	42	24	15	8.5	4.2	2.9
8	1.2	2.7	4.2	129	17	124	40	24	14	8.5	4.1	2.8
9	.97	2.8	4.3	84	16	99	37	22	13	8.3	4.0	2.9
10	.94	6.1	4.3	284	15	84	36	21	12	7.9	4.0	3.0
11	.96	4.0	4.3	277	15	449	34	21	12	7.6	4.0	2.9
12	1.1	3.0	4.3	99	14	264	32	22	12	7.6	3.8	2.7
13	1.3	2.8	4.8	60	29	168	31	22	11	7.5	3.8	2.4
14	1.7	2.6	4.6	42	181	132	31	22	12	7.3	3.7	2.3
15	2.0	2.6	4.4	47	108	112	30	21	15	7.1	3.8	2.2
16	1.9	2.7	4.3	38	68	98	35	21	23	8.4	3.8	2.5
17	1.6	2.9	4.1	32	54	86	33	21	20	8.3	4.0	2.7
18	1.7	3.6	3.9	27	45	77	31	20	15	7.3	4.0	2.7
19	1.6	3.3	3.8	24	39	70	30	19	13	6.9	3.8	2.7
20	1.5	3.1	3.7	21	35	64	29	19	12	6.6	3.7	2.6
21	1.5	3.1	3.7	20	33	103	28	18	12	6.5	4.2	2.7
22	1.5	3.0	3.7	18	30	81	26	19	12	6.6	5.6	2.7
23	1.5	3.1	4.4	19	28	109	25	19	11	6.5	4.4	2.7
24	1.5	3.1	8.5	63	27	102	24	19	11	6.5	3.9	2.8
25	1.7	3.2	17	86	26	91	24	18	11	6.3	3.6	2.8
26	1.9	7.3	8.5	116	24	80	24	18	11	5.9	3.5	3.0
27	1.7	5.3	5.8	76	23	73	24	17	11	5.6	3.4	3.1
28	1.5	3.9	5.0	57	22	68	24	17	10	5.2	3.3	3.3
29	1.7	3.7	6.9	46	---	64	24	16	10	4.9	3.2	3.8
30	1.9	3.6	4.9	38	---	60	23	16	10	5.1	3.1	3.3
31	1.5	---	4.4	32	---	56	---	15	---	5.2	2.9	---
TOTAL	49.29	97.3	153.8	2016.2	1002	4285	1001	630	404	230.4	125.2	85.8
MEAN	1.59	3.24	4.96	65.0	35.8	138	33.4	20.3	13.5	7.43	4.04	2.86
MAX	6.2	7.3	17	284	181	719	53	26	23	10	5.6	3.8
MIN	.29	1.6	3.6	3.8	14	22	23	15	10	4.9	2.9	2.2
AC-FT	98	193	305	4000	1990	8500	1990	1250	801	457	248	170

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1924 - 1995, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	2.19	4.72	9.21	17.6	32.0	31.5	19.8	9.90	5.36	2.60	1.64	1.59
MAX	10.2	44.1	89.9	199	451	221	148	44.6	21.7	12.6	11.0	7.05
(WY)	1984	1966	1967	1993	1969	1938	1926	1983	1983	1980	1983	1983
MIN	.13	.36	.69	2.07	2.55	2.89	2.14	.72	.72	.11	.051	.066
(WY)	1991	1991	1991	1936	1964	1961	1961	1934	1989	1990	1989	1990

SUMMARY STATISTICS

FOR 1994 CALENDAR YEAR

FOR 1995 WATER YEAR

WATER YEARS 1924 - 1995

ANNUAL TOTAL	1651.28	10079.99	
ANNUAL MEAN	4.52	27.6	
HIGHEST ANNUAL MEAN			11.4
LOWEST ANNUAL MEAN			77.8
HIGHEST DAILY MEAN	60	719	3360
LOWEST DAILY MEAN	.16	.29	.00
ANNUAL SEVEN-DAY MINIMUM	.18	1.2	.00
INSTANTANEOUS PEAK FLOW		2260	7000
ANNUAL RUNOFF (AC-FT)	3280	19990	8260
10 PERCENT EXCEEDS	8.6	66	20
50 PERCENT EXCEEDS	3.7	9.8	3.7
90 PERCENT EXCEEDS	.31	2.5	.41

SANTA ANA RIVER BASIN

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11057500 SAN TIMOTEO CREEK NEAR LOMA LINDA, CA

LOCATION.--Lat 34°03'46", long 117°16'16", in NE 1/4 NW 1/4 sec.26, T.1 S., R.4 W., San Bernardino County, Hydrologic Unit 18070203, on left bank 200 ft upstream from Redlands Boulevard Bridge and 0.6 mi northwest of Loma Linda.

DRAINAGE AREA.--125 mi².

PERIOD OF RECORD.--October 1954 to September 1965, February 1968 to September 1975, April 1979 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 1,030 ft above sea level, from topographic map. Prior to April 1979, water-stage recorder at site 0.2 mi downstream at different datum.

REMARKS.--Records poor. No regulation upstream from station. Natural flow affected by pumping and return flow from irrigated areas. See schematic diagram of Santa Ana River basin.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 15,000 ft³/s, Feb. 25, 1969, gage height, 8.2 ft, from floodmark, from rating curve extended above 2,100 ft³/s on basis of slope-conveyance study of peak flow, at site and datum then in use; no flow for many days each year.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 150 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Jan. 4	1915	1,900	5.56	Mar. 5	2145	*2,840	*6.11
Jan. 10	1745	unknown	unknown	Mar. 11	0945	1,600	5.34
Jan. 25	2115	303	3.82	Mar. 23	1300	298	3.81
Feb. 14	1745	unknown	unknown				

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	.62	.72	.76	.00	3.6	.00	.00	.00	.00	.00	.00
2	.00	.54	.53	.67	.00	1.9	.00	.00	.00	.00	.00	.00
3	.08	.00	.22	4.0	.00	7.3	.00	.00	.00	.00	.00	.00
4	.09	.03	.18	331	.00	2.9	.00	.00	.00	.00	.00	.00
5	1.9	.04	.25	122	.00	627	.00	.00	.00	.00	.00	.00
6	.87	.23	.00	.00	.00	365	.00	4.2	.00	.00	.00	.00
7	.19	.11	.00	31	.00	3.7	.00	.00	.00	.00	.00	.00
8	.06	.12	.04	32	.00	.02	.00	.79	.00	.00	.00	.00
9	.00	.10	.11	.07	.00	.00	.08	.00	.00	.00	.00	.00
10	.00	5.0	.00	e400	.00	.30	.00	.00	.00	.00	.00	.00
11	.02	.10	.03	e130	.00	520	.00	.00	.00	.00	.00	.00
12	.03	.20	.47	e40	.00	22	.00	.00	.00	.00	.00	.00
13	.03	.00	1.5	e2.0	2.3	3.5	.00	.00	.00	.00	.00	.00
14	.00	.14	.45	.28	e500	3.1	.00	.00	.00	.00	.00	.00
15	.42	.04	.00	2.6	e100	2.1	.00	.00	2.9	.00	.00	.00
16	.00	.00	.00	6.8	e5.0	1.1	11	.00	19	.00	.00	.00
17	.00	.00	.00	.96	e4.5	.00	1.5	.00	8.1	.00	.00	.00
18	.00	.00	.00	.00	e4.0	.00	.51	.00	.00	.00	.00	.00
19	.00	.00	.25	.01	e3.5	.00	.24	.00	.00	.00	.00	.00
20	.00	.00	.20	.00	e3.0	.00	.00	.00	.00	.00	.00	.00
21	.00	.09	.04	2.0	e2.5	25	.00	.00	.00	.00	.00	.00
22	.17	.24	.22	.05	e2.0	.76	.00	.00	.00	.00	.00	.00
23	.34	.68	.57	1.5	e1.5	63	.00	.00	.00	.00	.00	.00
24	.07	.26	2.7	15	e1.4	4.8	.00	.00	.00	.00	.00	.00
25	.19	.59	9.9	82	1.3	.00	.00	.00	.00	.00	.00	.00
26	.40	.48	.96	31	1.3	.00	.00	.00	.00	.00	.00	.00
27	.63	.80	.24	.38	1.3	.00	.00	.00	.00	.00	.00	.00
28	.11	.60	.76	.00	3.1	.00	.00	.00	.00	.00	.00	.00
29	.11	.13	.64	.00	---	.00	.00	.00	.00	.00	.00	.00
30	.63	.54	.18	.07	---	.00	.00	.00	.00	.00	.00	.00
31	.59	---	.76	.04	---	.00	---	.00	---	.00	.00	---
TOTAL	6.93	11.68	21.92	1236.19	636.70	1657.08	13.33	4.99	30.00	0.00	0.00	0.00
MEAN	.22	.39	.71	39.9	22.7	53.5	.44	.16	1.00	.000	.000	.000
MAX	1.9	5.0	9.9	400	500	627	11	4.2	19	.00	.00	.00
MIN	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
AC-FT	14	23	43	2450	1260	3290	26	9.9	60	.00	.00	.00

e Estimated.

11057500 SAN TIMOTEO CREEK NEAR LOMA LINDA, 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	.90	1.53	2.17	9.77	12.8	7.45	1.50	.90	.82	.66	.67	.80
MAX	2.27	11.6	11.6	113	186	53.7	16.8	3.65	2.20	3.65	1.76	3.03
(WY)	1988	1983	1985	1993	1969	1991	1958	1969	1989	1968	1965	1965
MIN	.11	.11	.19	.079	.17	.14	.000	.071	.079	.000	.000	.000
(WY)	1989	1992	1986	1972	1968	1987	1979	1980	1980	1995	1995	1995

SUMMARY STATISTICS

FOR 1994 CALENDAR YEAR

FOR 1995 WATER YEAR

WATER YEARS 1955 - 1995

ANNUAL TOTAL	434.18	3618.82	
ANNUAL MEAN	1.19	9.91	3.31
HIGHEST ANNUAL MEAN			21.7
LOWEST ANNUAL MEAN			.74
HIGHEST DAILY MEAN	55	Feb 7	627
LOWEST DAILY MEAN	.00	Jan 3	.00
ANNUAL SEVEN-DAY MINIMUM	.00	Feb 22	.00
INSTANTANEOUS PEAK FLOW			2840
INSTANTANEOUS PEAK STAGE			6.11
ANNUAL RUNOFF (AC-FT)	861	7180	2400
10 PERCENT EXCEEDS	1.6	3.1	2.0
50 PERCENT EXCEEDS	.06	.00	.60
90 PERCENT EXCEEDS	.00	.00	.00

11058500 EAST TWIN CREEK NEAR ARROWHEAD SPRINGS, CA

LOCATION.--Lat 34°10'45", long 117°15'53", in NE 1/4 NE 1/4 sec.14, T.1 N., R.4 W., San Bernardino County, Hydrologic Unit 18070203, on right bank 1,000 ft upstream from Del Rosa Water Co.'s Diversion, 0.5 mi south of Arrowhead Springs, and 1.0 mi downstream from Strawberry Creek.

RAINAGE AREA.--8.80 mi².

PERIOD OF RECORD.--December 1919 to current year. Prior to October 1952, published as Strawberry Creek near Arrowhead Springs.

REVISED RECORDS.--WSP 1635: 1924(M), 1927, 1928(M), 1929, 1932(M). WSP 1928: Drainage area.

GAGE.--Water-stage recorder and concrete control. Elevation of gage is 1,590 ft above sea level, from topographic map.

REMARKS.--Records fair except for estimated daily discharges, which are poor. No regulation upstream from station. One small diversion dam for domestic use upstream from station. See schematic diagram of Santa Ana River basin.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 3,710 ft³/s, Jan. 29, 1980, gage height, 8.35 ft, on basis of slope-area measurement of peak flow; no flow at times in 1929, 1931-35.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 40 ft³/s and maximum (*), from rating curve extended above 120 ft³/s on basis of slope-area measurement at gage height 8.35 ft:

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Dec. 25	0415	58	2.71	Feb. 14	1815	182	3.59
Jan. 5	0245	106	3.26	Mar. 5	2100	*1,160	*5.66
Jan. 10	2345	288	4.03	Mar. 11	0830	320	3.99
Jan. 25	1700	200	3.67	Mar. 21	1145	78	3.09

Minimum daily, 1.1 ft³/s, Oct. 1-3, Sept. 15, 22.

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	1.1	1.4	2.0	2.6	16	11	22	11	7.6	4.7	3.1	e2.1
2	1.1	1.7	1.8	2.3	14	11	20	12	7.9	4.9	3.0	e2.1
3	1.1	1.8	1.7	5.4	13	13	18	12	7.8	4.7	3.0	e2.1
4	2.1	1.7	1.7	32	11	18	18	12	7.3	5.3	3.0	e2.1
5	7.1	1.6	1.7	36	10	351	18	11	7.2	4.8	3.0	e2.1
6	1.4	1.7	1.8	10	9.1	211	18	12	7.1	4.7	3.1	2.0
7	1.3	1.7	1.8	26	8.6	e95	17	12	7.2	4.5	2.8	2.0
8	1.3	1.9	1.6	63	8.5	e55	17	11	7.1	4.5	2.7	2.0
9	1.3	1.8	1.7	49	7.9	45	16	11	6.6	4.6	2.7	2.2
10	1.3	5.0	1.8	107	7.3	40	15	10	6.4	4.6	2.7	2.2
11	1.3	2.6	1.8	110	7.1	145	15	10	6.2	4.4	2.9	1.8
12	1.4	2.1	1.7	40	7.3	95	14	10	6.0	4.4	2.8	1.7
13	1.4	2.0	1.9	24	24	67	14	10	5.9	4.3	2.7	1.5
14	1.5	1.8	1.8	18	124	60	14	10	6.1	4.3	2.6	1.3
15	1.6	1.8	1.8	22	80	48	14	9.9	9.0	4.4	2.7	1.1
16	1.5	1.8	1.9	15	47	42	17	9.8	11	5.1	e2.7	1.7
17	1.5	1.9	1.8	12	35	38	16	9.6	8.3	4.3	e2.8	1.8
18	1.4	2.1	1.8	9.4	28	35	15	9.3	6.7	4.0	e2.8	1.6
19	1.4	2.0	1.7	7.3	24	33	14	8.8	6.0	3.8	e2.9	1.6
20	1.4	2.0	1.7	6.1	21	31	14	8.7	5.5	3.7	e2.9	1.6
21	1.4	1.8	1.7	5.8	19	43	13	8.7	5.4	3.6	e2.8	1.2
22	1.5	1.7	1.8	4.8	17	36	13	9.1	5.2	3.7	e2.7	1.1
23	1.5	1.8	1.9	6.3	16	47	12	9.1	5.0	3.7	e2.6	1.4
24	1.5	1.8	8.6	34	15	40	12	9.1	4.7	3.5	e2.4	1.5
25	1.7	1.8	17	61	13	33	11	9.2	4.9	3.4	e2.3	1.3
26	1.7	5.7	5.1	69	13	31	11	8.6	4.8	3.2	e2.3	1.7
27	1.7	2.6	3.9	41	12	28	11	8.3	4.7	3.0	e2.3	1.7
28	1.6	2.3	4.6	32	11	27	12	8.0	4.6	2.9	e2.2	2.0
29	1.7	2.0	4.3	26	---	25	12	7.6	4.7	2.9	e2.2	2.0
30	1.7	2.0	3.1	23	---	24	12	7.1	4.6	3.1	e2.4	1.7
31	1.6	---	2.8	19	---	23	---	7.0	---	3.1	e2.3	---
TOTAL	51.1	63.9	90.3	919.0	618.8	1801	445	301.9	191.5	126.1	83.4	52.2
MEAN	1.65	2.13	2.91	29.6	22.1	58.1	14.8	9.74	6.38	4.07	2.69	1.74
MAX	7.1	5.7	17	110	124	351	22	12	11	5.3	3.1	2.2
MIN	1.1	1.4	1.6	2.3	7.1	11	11	7.0	4.6	2.9	2.2	1.1
IC-FT	101	127	179	1820	1230	3570	883	599	380	250	165	104

e Estimated.

SANTA ANA RIVER BASIN

11058500 EAST TWIN CREEK NEAR ARROWHEAD SPRINGS, CA--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1921 - 1995, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	1.48	2.51	4.91	7.75	12.3	13.8	8.13	4.76	2.82	1.63	1.24	1.14
MAX	11.4	20.3	43.6	95.7	102	101	38.3	19.3	11.6	9.40	11.9	4.94
(WY)	1984	1966	1967	1993	1993	1991	1978	1983	1983	1983	1983	1983
MIN	.20	.47	.51	.91	1.14	1.27	.56	.66	.56	.18	.20	.20
(WY)	1965	1965	1990	1963	1964	1972	1977	1934	1961	1964	1964	1964

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR				FOR 1995 WATER YEAR				WATER YEARS 1921 - 1995			
ANNUAL TOTAL	1036.70				4744.2							
ANNUAL MEAN	2.84				13.0				5.17			
HIGHEST ANNUAL MEAN									23.1			
LOWEST ANNUAL MEAN									.85			
HIGHEST DAILY MEAN	35 Feb 8				351 Mar 5				795 Feb 25 1969			
LOWEST DAILY MEAN	.53 Aug 24				1.1 Oct 1				.10 Aug 23 1929			
ANNUAL SEVEN-DAY MINIMUM	.61 Aug 23				1.3 Oct 6				.11 Jul 11 1964			
INSTANTANEOUS PEAK FLOW					1160 Mar 5				3710 Jan 29 1980			
INSTANTANEOUS PEAK STAGE					5.66 Mar 5				8.35 Jan 29 1980			
ANNUAL RUNOFF (AC-FT)	2060				9410				3740			
10 PERCENT EXCEEDS	4.9				31				9.1			
50 PERCENT EXCEEDS	2.1				4.8				1.9			
90 PERCENT EXCEEDS	.81				1.6				.50			

11059300 SANTA ANA RIVER AT E STREET, NEAR SAN BERNARDINO, CA

LOCATION.--Lat 34°03'54", long 117°17'58", in San Bernardino Grant, San Bernardino County; Hydrologic Unit 18070203, on left bank, 0.4 mi downstream from E Street Bridge, 0.4 mi upstream from Warm Creek, 1.2 mi downstream from San Timoteo Creek, 2.8 mi south of San Bernardino, and 26 mi downstream from Big Bear Lake.

DRAINAGE AREA.--541 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--March 1939 to September 1954, October 1966 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 940 ft above sea level, from topographic map. Prior to Nov. 10, 1950, water-stage recorder on right bank 0.4 mi upstream at datum 964.50 ft above sea level. Nov. 11, 1950, to Sept. 30, 1954, water-stage recorder on both banks 0.4 mi upstream at datum 964.50 ft above sea level. Oct. 1, 1966, to Sept. 30, 1976, water-stage recorder on right bank 0.4 mi upstream at datum 954.50 ft above sea level. Oct. 1, 1976, to Sept. 30, 1977, gage was removed for channel construction. Oct. 1, 1977, to Jan. 28, 1981, water-stage recorder on right bank 0.5 mi upstream at elevation 950 ft above sea level, from topographic map.

REMARKS.--Records poor. Flow partly regulated by Big Bear Lake (station 11049000). Natural flow of stream affected by ground-water withdrawals and diversion for domestic use and irrigation upstream from station. Effluent from sewage reclamation plant 1.0 mi upstream has caused sustained flow past gage since 1967. See schematic diagram of Santa Ana River basin.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 28,000 ft³/s, Feb. 25, 1969, gage height, 11.9 ft, site and datum then in use; no flow for many days many years prior to 1967.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 1,000 ft³/s and maximum (*), from rating curve extended above 5,930 ft³/s on basis of critical-depth computations:

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Dec. 25	0530	1,110	4.60	Feb. 14	unknown	unknown	unknown
Jan. 4	unknown	unknown	unknown	Mar. 5	unknown	*unknown	*unknown
Jan. 7	2215	1,420	4.76	Mar. 11	unknown	unknown	unknown
Jan. 10	1900	8,970	6.30	June 16	unknown	unknown	unknown
Jan. 25	1845	3,040	5.31				

Minimum daily, 30 ft³/s, Aug. 9.

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

JAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	34	36	35	39	49	e110	e400	e250	166	44	46	32
2	35	35	35	41	46	e85	e370	e240	173	41	42	33
3	35	37	34	e100	44	e125	e330	e230	174	44	37	34
4	33	39	35	e720	43	e150	e300	e225	165	45	35	37
5	68	35	34	e1500	45	e5100	e250	e220	156	47	34	36
6	43	35	33	e150	45	e4000	e240	e240	158	45	35	38
7	40	34	34	e320	43	e2100	e235	e235	180	48	34	37
8	37	34	33	e800	42	e1500	e230	e230	172	48	33	37
9	36	35	37	e400	40	e1100	e220	e225	173	47	30	35
10	38	e98	34	e2000	40	e800	e200	e222	164	47	33	35
11	36	e39	35	e1900	39	e2800	e210	e220	140	47	32	35
12	35	37	36	e700	39	e1500	e205	e210	136	51	31	36
13	36	38	39	e350	53	e1100	e200	e200	127	48	31	36
14	34	35	39	e220	e2000	e950	e195	e190	139	46	33	37
15	33	34	37	e250	e1200	e800	e190	e185	191	43	33	38
16	35	34	39	e200	e790	e760	e220	e180	e250	54	34	38
17	37	33	37	e150	e500	e700	e210	e170	e170	56	38	39
18	36	33	37	e130	e330	e750	e200	e150	e130	47	38	39
19	35	33	37	e120	e310	e800	e215	175	e100	38	36	37
20	35	32	37	e100	e280	e820	e210	165	e84	39	37	38
21	35	34	35	e85	e220	e1100	e208	152	e78	41	40	36
22	34	33	33	e70	e200	e1000	e200	170	e73	38	48	37
23	36	36	36	e50	e190	e900	e195	192	e70	42	44	37
24	35	33	61	e400	e180	e750	e190	194	e62	37	36	36
25	35	32	e270	e450	e170	e850	e178	194	e52	38	35	36
26	35	e72	e47	e600	e160	e800	e180	173	e46	42	35	38
27	35	35	43	e200	e150	e700	e190	182	e42	38	34	40
28	36	33	49	e150	e135	e500	e220	178	40	37	34	41
29	35	33	e106	78	---	e450	e250	166	39	36	34	39
30	38	35	e43	72	---	e420	e260	158	43	34	33	43
31	38	---	40	60	---	e410	---	155	---	39	33	---
TOTAL	1143	1142	1480	12405	7383	33930	6901	6076	3693	1347	1108	1110
MEAN	36.9	38.1	47.7	400	264	1095	230	196	123	43.5	35.7	37.0
MAX	68	98	270	2000	2000	5100	400	250	250	56	48	43
MIN	33	32	33	39	39	85	178	150	39	34	30	32
AC-FT	2270	2270	2940	24610	14640	67300	13690	12050	7330	2670	2200	2200

e Estimated.

SANTA ANA RIVER BASIN

11059300 SANTA ANA RIVER AT E STREET, NEAR SAN BERNARDINO, CA--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1939 - 1954, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	.88	3.47	20.9	23.7	20.6	37.4	27.2	11.3	2.39	.93	.87	.63
MAX	3.35	21.3	117	109	72.2	183	237	145	31.2	9.87	8.37	6.32
(WY)	1942	1945	1946	1943	1945	1943	1941	1941	1941	1940	1940	1939
MIN	.000	.007	.000	1.90	2.41	1.70	1.14	.14	.000	.000	.000	.000
(WY)	1951	1952	1951	1948	1942	1951	1951	1942	1950	1950	1942	1948

SUMMARY STATISTICS

WATER YEARS 1939 - 1954

ANNUAL MEAN	12.7
HIGHEST ANNUAL MEAN	56.6
LOWEST ANNUAL MEAN	.78
HIGHEST DAILY MEAN	2350
LOWEST DAILY MEAN	.00
ANNUAL SEVEN-DAY MINIMUM	.00
ANNUAL RUNOFF (AC-FT)	9190
10 PERCENT EXCEEDS	16
50 PERCENT EXCEEDS	1.0
90 PERCENT EXCEEDS	.00

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	33.9	43.3	77.4	158	232	253	132	103	63.9	40.8	36.8	34.6
MAX	117	191	469	1327	2096	1279	742	707	339	162	160	75.0
(WY)	1984	1984	1967	1993	1980	1980	1980	1983	1983	1969	1983	1983
MIN	12.4	13.2	14.8	13.2	11.6	10.6	12.5	9.35	13.0	9.08	9.97	9.93
(WY)	1968	1972	1970	1972	1968	1972	1972	1967	1971	1967	1967	1967

SUMMARY STATISTICS

FOR 1994 CALENDAR YEAR

FOR 1995 WATER YEAR

WATER YEARS 1967 - 1995

ANNUAL TOTAL	18064	77718	
ANNUAL MEAN	49.5	213	100
HIGHEST ANNUAL MEAN			441
LOWEST ANNUAL MEAN			17.2
HIGHEST DAILY MEAN	1060	Feb 8	5100
LOWEST DAILY MEAN	29	May 25	30
ANNUAL SEVEN-DAY MINIMUM	30	May 23	32
INSTANTANEOUS PEAK FLOW			28000
INSTANTANEOUS PEAK STAGE			11.90
ANNUAL RUNOFF (AC-FT)	35830	154200	72490
10 PERCENT EXCEEDS	53	450	165
50 PERCENT EXCEEDS	35	47	35
90 PERCENT EXCEEDS	31	34	14

11059300 SANTA ANA RIVER AT E STREET, NEAR SAN BERNARDINO, CA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1983-86, 1988 to current year.

WATER TEMPERATURE: November 1982 to September 1983.

SEDIMENT DATA: Water years 1983-86, 1988 to current year.

PERIOD OF DAILY RECORD.--

WATER TEMPERATURE: November 1982 to September 1983.

SUSPENDED-SEDIMENT DISCHARGE: October 1982 to September 1983.

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- PENDE (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (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
OCT								
05...	1245	52	25.0	198	28	--	--	--
NOV								
03...	1405	45	23.0	12	1.5	--	--	--
DEC								
20...	1330	50	21.0	11	1.5	--	--	--
JAN								
06...	1540	80	16.5	260	56	--	--	--
11...	1100	1870	12.0	6160	31100	7	8	9
26...	1500	370	13.0	1300	1300	--	--	--
FEB								
03...	1540	54	22.0	215	31	--	--	--
16...	1345	1400	15.0	4520	17100	4	4	5
APR								
12...	1245	210	20.0	777	441	--	--	--
MAY								
12...	1415	216	16.5	481	281	--	--	--
JUL								
07...	1055	54	28.0	189	28	--	--	--
AUG								
07...	1250	46	30.0	37	4.6	--	--	--
SEP								
06...	1410	45	31.0	64	7.8	--	--	--

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
OCT								
05...	--	--	94	--	--	--	--	--
NOV								
03...	--	--	43	--	--	--	--	--
DEC								
20...	--	--	52	--	--	--	--	--
JAN								
06...	--	--	24	--	--	--	--	--
11...	14	20	27	47	72	92	98	100
26...	--	--	24	41	81	99	100	--
FEB								
03...	--	--	5	--	--	--	--	--
16...	8	11	20	33	68	94	99	100
APR								
12...	--	--	6	--	--	--	--	--
MAY								
12...	--	--	11	--	--	--	--	--
JUL								
07...	--	--	21	--	--	--	--	--
AUG								
07...	--	--	50	--	--	--	--	--
SEP								
06...	--	--	52	--	--	--	--	--

11060400 WARM CREEK NEAR SAN BERNARDINO, CA

LOCATION.--Lat 34°04'42", long 117°17'58", in San Bernardino Grant, San Bernardino County, Hydrologic Unit 18070203, on left bank 0.2 mi downstream from Interstate Highway 215 Bridge and 2.0 mi southwest of San Bernardino.

DRAINAGE AREA.--11.0 mi².

PERIOD OF RECORD.--February 1964 to September 1972, October 1974 to current year.

REVISED RECORDS.--WDR CA-83-1: Drainage area. WDR CA-92-1: 1978(M), 1980-81(M), 1983-86(M).

GAGE.--Water-stage recorder. Elevation of gage is 960 ft above sea level, from topographic map. Prior to Oct. 1, 1974, at site 0.1 mi upstream at different datum.

REMARKS.--Records fair except for discharges below 10 ft³/s and estimated daily discharges, which are poor. Natural channel prior to October 1972; concrete-lined channel since October 1974. Possible diversion during high flows into Warm Creek from Lytle Creek flood detention basin 3.4 mi upstream. See schematic diagram of Santa Ana River basin.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 8,500 ft³/s, Mar. 4, 1978, gage height, 4.88 ft, from rating curve extended above 420 ft³/s on basis of step-backwater analysis; no flow at times in some years.

EXTREMES FOR CURRENT YEAR.--Maximum discharge unknown due to station vandalism, but is believed to have occurred on Jan. 10; no flow on June 10, 11, 13, 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	.46	.10	.26	1.4	7.3	9.0	21	5.3	.56	.77	.19	.15
2	.49	.10	.10	e1.8	4.0	16	20	3.4	1.4	.77	.17	.77
3	.59	.32	.08	e2.5	5.7	47	17	2.5	1.5	.77	.15	.10
4	.94	.06	.11	e88	5.6	20	17	3.2	.62	.77	.15	.06
5	37	.06	.12	e27	4.8	332	16	3.9	.25	.77	.13	.10
6	.28	.07	.09	e5.0	5.9	59	16	3.9	.23	.77	.23	.05
7	.16	.08	.19	e18	7.0	1.9	15	3.7	.66	.77	.22	.07
8	.22	.10	.26	e30	7.7	4.3	14	e3.9	1.5	.72	.12	.04
9	.43	.10	.10	e8.5	7.1	13	11	e4.0	.06	.58	.12	.04
10	.37	22	.06	e282	7.9	24	11	e4.1	.00	.58	.10	.04
11	.21	.11	.06	e114	6.9	314	16	e4.3	.00	.60	.12	.05
12	.26	.05	.09	e3.0	7.7	4.6	16	e4.2	.02	.50	.15	.08
13	.26	.26	2.5	e1.3	39	18	17	e4.1	.00	.43	.09	.08
14	.21	.51	.14	.41	124	42	20	e4.2	.00	.43	.08	.08
15	.44	.04	.11	14	2.1	36	21	e4.3	19	.38	.08	.50
16	.07	.10	.09	16	11	31	68	e4.4	68	.46	.12	.07
17	.08	.09	.08	1.2	22	29	6.9	e4.3	9.6	.39	.30	.08
18	.17	.73	.11	.77	19	29	5.1	e4.3	4.2	.43	.08	.14
19	.12	.06	.12	1.0	15	28	4.4	e4.3	3.2	.32	.08	.08
20	.09	.08	.12	.80	13	28	3.9	e4.5	2.5	.32	.08	.07
21	.10	.05	.09	3.6	13	55	3.2	e4.5	2.2	.32	.13	.17
22	.09	.06	.20	.41	13	28	3.3	e4.6	1.9	.33	.09	.04
23	.10	.05	.29	12	13	79	2.7	4.5	1.7	.21	.13	.09
24	.11	.07	20	79	12	28	3.2	4.4	1.6	.23	.14	.07
25	.11	.07	47	134	13	29	3.4	5.8	1.2	.26	.14	.09
26	.12	22	.14	15	12	27	4.0	4.7	1.0	.23	.19	.11
27	.11	.09	.12	3.9	12	26	5.0	2.6	1.3	.23	.60	.07
28	.14	.06	12	3.9	10	25	5.1	2.0	.94	.24	.17	.04
29	.11	.53	1.0	3.9	---	23	6.4	.99	.77	.21	.47	.06
30	.08	.23	.25	3.9	---	22	6.6	.39	.77	.12	.17	.05
31	.08	---	.90	5.1	---	21	---	.70	---	.19	.16	---
TOTAL	44.00	48.23	86.78	881.39	420.7	1448.8	379.2	115.98	126.68	14.10	5.15	3.44
MEAN	1.42	1.61	2.80	28.4	15.0	46.7	12.6	3.74	4.22	.45	.17	.11
MAX	37	22	47	282	124	332	68	5.8	68	.77	.60	.77
MIN	.07	.04	.06	.41	2.1	1.9	2.7	.39	.00	.12	.08	.04
AC-FT	87	96	172	1750	834	2870	752	230	251	28	10	6.8

e Estimated.

11060400 WARM CREEK NEAR SAN BERNARDINO, CA--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1965 - 1972, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	.11	2.77	4.73	4.68	4.19	1.15	1.82	.033	.000	.000	.003	.006
MAX	.49	13.1	14.0	32.7	29.6	4.35	11.5	.24	.000	.003	.026	.050
(WY)	1970	1966	1972	1969	1969	1970	1965	1969	1965	1968	1967	1965
MIN	.000	.000	.41	.000	.000	.000	.000	.000	.000	.000	.000	.000
(WY)	1965	1969	1969	1972	1967	1972	1966	1965	1965	1965	1965	1966

SUMMARY STATISTICS

WATER YEARS 1965 - 1972

ANNUAL MEAN	1.61
HIGHEST ANNUAL MEAN	5.16
LOWEST ANNUAL MEAN	.33
HIGHEST DAILY MEAN	488
LOWEST DAILY MEAN	.00
ANNUAL SEVEN-DAY MINIMUM	.00
INSTANTANEOUS PEAK FLOW	2200
INSTANTANEOUS PEAK STAGE	5.55
ANNUAL RUNOFF (AC-FT)	1170
10 PERCENT EXCEEDS	.00
50 PERCENT EXCEEDS	.00
90 PERCENT EXCEEDS	.00

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	8.95	10.8	13.2	19.3	41.5	39.9	14.9	13.4	10.4	9.56	9.40	8.69
MAX	32.4	33.1	41.6	41.2	418	376	44.2	86.7	43.6	34.5	50.6	30.3
(WY)	1984	1986	1985	1993	1978	1978	1986	1980	1980	1980	1983	1983
MIN	.12	.13	.40	.11	.85	2.51	.17	.37	.067	.11	.061	.023
(WY)	1978	1980	1980	1976	1977	1977	1977	1978	1978	1979	1979	1979

SUMMARY STATISTICS

FOR 1994 CALENDAR YEAR

FOR 1995 WATER YEAR

WATER YEARS 1975 - 1995

ANNUAL TOTAL	1314.44	3574.45	
ANNUAL MEAN	3.60	9.79	16.5
HIGHEST ANNUAL MEAN			70.5
LOWEST ANNUAL MEAN			1.91
HIGHEST DAILY MEAN	106	Mar 19	3400
LOWEST DAILY MEAN	.04	Nov 15	.00
ANNUAL SEVEN-DAY MINIMUM	.06	Nov 19	.05
INSTANTANEOUS PEAK FLOW			.05
INSTANTANEOUS PEAK STAGE			.00
INSTANTANEOUS LOW FLOW			.00
ANNUAL RUNOFF (AC-FT)	2610	7090	11990
10 PERCENT EXCEEDS	5.1	22	28
50 PERCENT EXCEEDS	.89	.77	7.7
90 PERCENT EXCEEDS	.10	.08	.09

11062000 LYTLE CREEK NEAR FONTANA, CA

LOCATION.--Lat 34°12'44", long 117°27'26", in NW 1/4 SE 1/4 sec.36, T.2 N., R.6 W., San Bernardino County, Hydrologic Unit 18070203, on right bank 75 ft upstream from highway culvert crossing, 0.7 mi upstream from right tributary, 2.3 mi downstream from Lytle Creek Conduit, and 8 mi north of Fontana.

DRAINAGE AREA.--46.6 mi².

PERIOD OF RECORD.--October 1918 to current year. Combined records of Lytle Creek and diversions, October 1898 to December 1899, October 1904 to current year (published as "at mouth of canyon near Rialto" 1898-99, as "near San Bernardino" 1904-18, and as Lytle Creek and Fontana pipeline near Fontana 1919-31). Monthly discharge only for some periods published in WSP 1315-B.

REVISED RECORDS.--WSP 1011: 1943. WDR CA-83-1: Drainage area.

GAGE.--Water-stage recorder on creek. Elevation of gage is 2,380 ft above sea level, from topographic map. October 1918 to Mar. 21, 1938, at site 1 mi downstream at different datum. Mar. 22, 1938, to Nov. 20, 1963, at site 75 ft downstream at datum 4.58 ft lower. Water-stage recorder and sharp-crested weir on conduit since June 3, 1949. Water-stage recorder and sharp-crested weir on infiltration line from Oct. 1, 1971 to September 30, 1992; non-recording flow meter on diversion pipe since October 1, 1992.

REMARKS.--Records poor. No regulation upstream from station. Southern California Edison Co.'s Lytle Creek conduit (station 11060900) diverts 2.3 mi upstream for power development and Fontana Water Co. collects water from an infiltration line upstream for irrigation and domestic use. See schematic diagram of Santa Ana River basin. For records of combined discharge of Lytle Creek and diversions, see station 11062001.

COOPERATION.--Records for Lytle Creek conduit were provided by Southern California Edison Co., under general supervision of the U.S. Geological Survey, in connection with a Federal Energy Regulatory Commission project. Records for Fontana Water Company's infiltration line were provided by Fontana Water Company.

EXTREMES FOR PERIOD OF RECORD.--Creek only: Maximum discharge, 35,900 ft³/s, Jan. 25, 1969, gage height, 15.0 ft, from floodmark, from rating curve extended above 570 ft³/s on basis of slope-area measurements at gage heights 10.78 and 15.0 ft; no flow at times most years.

Combined creek and diversions: Maximum discharge, 35,900 ft³/s, Jan. 25, 1969; minimum daily, 2.6 ft³/s, Nov. 28, 1899.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 300 ft³/s and maximum (*):

Date	Time	Creek only		Combined creek and diversions	
		Discharge (ft ³ /s)	Gage height (ft)	Discharge (ft ³ /s)	
Jan. 11	0315	1,440	6.20	1,450	
Jan. 25	1015	377	3.61	379	
Feb. 14	0800	*1,830	*6.91	*1,830	
Mar. 5	2315	545	4.17	550	
Mar. 11	0715	730	4.62	734	
Mar. 21	0915	511	4.01	526	

Creek only: Minimum daily, 0.13 ft³/s, Oct. 2.

Combined creek and diversions: Minimum daily, 14 ft³/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	.14	.82	1.1	1.1	75	75	e122	71	e75	65	e49	36
2	.13	1.0	1.1	1.1	74	82	e120	71	e77	64	e48	33
3	.19	.71	1.1	2.4	74	136	e120	70	e78	64	e49	27
4	.92	.57	1.1	59	70	102	e119	71	e79	64	e48	24
5	13	.57	1.2	77	68	303	e120	73	e78	64	e46	25
6	5.1	.56	1.2	22	65	296	e119	74	e78	64	e46	26
7	.94	.48	.98	50	63	183	107	72	83	62	e45	28
8	.44	.48	.91	245	62	156	104	72	84	61	e46	28
9	.49	.48	.91	266	58	134	95	70	82	61	e45	29
10	.45	7.0	.91	531	55	125	e85	71	79	59	e45	29
11	.47	11	.87	667	53	460	e82	73	78	57	45	29
12	.49	5.1	.67	e284	50	e343	e80	76	79	58	44	28
13	.48	1.3	.91	191	119	e278	e79	79	79	56	46	28
14	.56	1.2	.79	116	864	e249	e77	80	79	55	46	28
15	.65	1.0	.79	89	e418	e217	e75	82	82	53	48	29
16	.64	.84	.77	64	e170	204	e109	82	92	57	44	29
17	.64	.79	.73	45	e140	195	e102	81	85	53	47	26
18	.67	.68	.80	27	128	e181	102	81	77	52	47	23
19	.67	.69	.81	23	56	174	105	76	75	51	49	23
20	.73	.54	.67	22	72	152	98	74	73	51	50	24
21	.74	.41	.67	32	110	246	93	74	73	e51	43	25
22	.74	.38	.63	32	81	212	91	69	74	e50	39	25
23	.89	.67	.65	50	81	254	83	69	73	e50	37	24
24	.94	1.0	.66	281	82	e144	73	67	71	e49	37	23
25	.94	.94	3.2	311	89	e140	72	e69	67	e48	37	23
26	1.1	1.3	.96	207	87	e136	70	e68	67	e48	38	23
27	.91	1.2	.79	e158	80	e130	71	e70	67	e49	36	23
28	.63	1.1	.90	e142	77	e127	71	e70	67	e49	36	23
29	.74	1.0	1.1	124	---	e125	71	e72	65	e50	36	23
30	.79	.97	1.1	102	---	e124	70	e71	64	e50	40	23
31	.75	---	1.1	82	---	e124	---	e72	---	e49	38	---
TOTAL	36.97	44.78	30.08	4303.6	3421	5807	2785	2270	2280	1714	1350	787
MEAN	1.19	1.49	.97	139	122	187	92.8	73.2	76.0	55.3	43.5	26.2
MAX	13	11	3.2	667	864	460	122	82	92	65	50	36
MIN	.13	.38	.63	1.1	50	75	70	67	64	48	36	23
AC-FT	73	89	60	8540	6790	11520	5520	4500	4520	3400	2680	1560

e Estimated.

SANTA ANA RIVER BASIN

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11062000 LYTLE CREEK NEAR FONTANA, CA--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1919 - 1995, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	3.80	7.47	9.79	27.0	42.2	54.1	30.0	20.2	14.6	10.5	7.21	5.71
MAX	48.2	275	151	552	633	752	254	189	157	131	80.5	65.7
(WY)	1984	1966	1967	1969	1980	1938	1978	1993	1983	1983	1969	1983
MIN	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
(WY)	1919	1919	1919	1919	1919	1919	1919	1919	1919	1919	1919	1919

SUMMARY STATISTICS FOR 1994 CALENDAR YEAR FOR 1995 WATER YEAR WATER YEARS 1919 - 1995

ANNUAL TOTAL	2425.33	24829.43	
ANNUAL MEAN	6.64	68.0	
HIGHEST ANNUAL MEAN			19.5
LOWEST ANNUAL MEAN			177
HIGHEST DAILY MEAN	151 Feb 7	864 Feb 14	1969
LOWEST DAILY MEAN	.01 Aug 12	.13 Oct 2	1919
ANNUAL SEVEN-DAY MINIMUM	.02 Aug 10	.48 Oct 8	.000
INSTANTANEOUS PEAK FLOW		1830 Feb 14	8950 Mar 2 1938
INSTANTANEOUS PEAK STAGE		6.91 Feb 14	.00 Oct 1 1918
ANNUAL RUNOFF (AC-FT)	4810	49250	.00 Oct 1 1918
10 PERCENT EXCEEDS	19	135	35900 Jan 25 1969
50 PERCENT EXCEEDS	.98	53	15.00 Jan 25 1969
90 PERCENT EXCEEDS	.12	.73	14130
			43
			.00
			.00

SANTA ANA RIVER BASIN

11062001 LYTLE CREEK NEAR FONTANA, CA--Continued

LYTLE CREEK, SOUTHERN CALIFORNIA EDISON CO.'S LYTLE CREEK CONDUIT, AND
FONTANA UNION WATER CO.'S INFILTRATION LINE DIVERSION
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	15	17	18	17	96	96	e141	92	e96	85	e67	55
2	14	17	18	18	95	103	e140	92	e98	84	e66	52
3	15	17	19	22	95	154	e141	91	e98	84	e67	46
4	17	18	19	76	91	115	e140	92	e99	84	e66	42
5	25	18	19	86	89	313	e141	94	e98	84	e64	43
6	15	17	18	39	86	298	e140	95	e98	84	e64	45
7	17	17	18	73	84	184	128	93	103	82	e63	47
8	16	16	18	256	83	157	125	93	104	81	e64	46
9	16	17	17	275	79	137	116	91	102	80	e63	47
10	15	19	18	540	76	129	e106	92	99	79	e63	48
11	15	15	17	677	74	464	e104	94	98	76	64	47
12	15	17	19	e293	71	e346	e102	97	99	77	62	46
13	15	17	19	200	139	e282	e101	100	99	75	64	46
14	17	17	19	124	867	e262	e99	101	99	75	64	46
15	17	18	18	97	e419	e241	e96	103	102	72	66	47
16	17	18	17	71	e171	226	e130	103	112	76	62	47
17	17	17	18	60	e141	216	e123	102	105	72	65	45
18	17	18	17	53	138	e200	123	102	97	71	65	42
19	17	18	18	49	77	195	126	96	95	70	67	42
20	17	17	17	48	92	173	119	95	93	70	68	43
21	17	17	18	53	130	257	114	95	93	e70	61	44
22	17	16	18	52	102	213	112	90	94	e69	57	44
23	16	18	18	70	102	255	104	90	93	e69	55	43
24	17	18	17	295	102	e145	94	88	91	e68	56	42
25	17	18	19	313	106	e142	93	e90	87	e67	55	42
26	17	17	19	215	102	e142	91	e89	87	e67	56	42
27	17	18	18	e179	101	e143	92	e91	87	e68	54	42
28	17	18	18	e163	98	e144	92	e91	87	e68	54	41
29	18	18	18	145	---	e144	92	e93	85	e69	54	41
30	17	18	18	123	---	e145	91	e92	84	e69	58	42
31	17	---	18	103	---	e144	---	e93	---	e67	57	---
TOTAL	516	521	560	4785	3906	6165	3416	2920	2882	2312	1911	1345
MEAN	16.6	17.4	18.1	154	139	199	114	94.2	96.1	74.6	61.6	44.8
MAX	25	19	19	677	867	464	141	103	112	85	68	55
MIN	14	15	17	17	71	96	91	88	84	67	54	41
AC-FT	1020	1030	1110	9490	7750	12230	6780	5790	5720	4590	3790	2670

e Estimated.

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1899 - 1995, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	26.5	28.6	31.0	57.5	68.8	80.2	57.4	47.5	39.5	33.1	30.1	27.8
MAX	71.9	285	168	650	653	785	264	225	164	131	107	81.5
(WY)	1984	1966	1967	1916	1980	1938	1978	1978	1978	1969	1969	1978
MIN	7.54	8.05	7.65	11.0	11.7	12.1	10.8	10.9	9.41	7.05	6.98	6.43
(WY)	1962	1991	1951	1951	1899	1965	1899	1961	1990	1899	1990	1990

SUMMARY STATISTICS

FOR 1994 CALENDAR YEAR

FOR 1995 WATER YEAR

WATER YEARS 1899 - 1995

ANNUAL TOTAL	8380	31239	
ANNUAL MEAN	23.0	85.6	44.2
HIGHEST ANNUAL MEAN			194
LOWEST ANNUAL MEAN			10.7
HIGHEST DAILY MEAN	165	Feb 7	8960
LOWEST DAILY MEAN	13	Aug 16	2.6
ANNUAL SEVEN-DAY MINIMUM	14	Aug 13	4.0
INSTANTANEOUS PEAK FLOW			1830
ANNUAL RUNOFF (AC-FT)	16620	61960	35900
10 PERCENT EXCEEDS	33	144	32000
50 PERCENT EXCEEDS	18	73	78
90 PERCENT EXCEEDS	15	17	26
			13

11063500 LONE PINE CREEK NEAR KEENBROOK, CA

LOCATION.--Lat 34°15'59", long 117°27'47", in SE 1/4 SW 1/4 sec.12, T.2 N., R.6 W., San Bernardino County, Hydrologic Unit 18070203, on right bank 50 ft upstream from the Atchison, Topeka, & Santa Fe Railway Co. bridge, 150 ft upstream from confluence with Cajon Creek, and 1.1 mi north of Keenbrook.

DRAINAGE AREA.--15.1 mi².

PERIOD OF RECORD.--December 1919 to September 1938, June 1949 to current year.

REVISED RECORDS.--WSP 1635: 1920-22(M), 1924-25(M), 1926-27, 1928(M), 1930, 1931(M), 1932-33, 1934-36(M).
WSP 1928: Drainage area.

GAGE.--Water-stage recorder and concrete control. Datum of gage is 2,605.92 ft above sea level. Prior to Mar. 2, 1938, water-stage recorder (destroyed by flood), and Mar. 2 to Sept. 30, 1938, nonrecording gage at same site at datum 0.98 ft higher.

REMARKS.--Records good except for estimated daily discharges, which are fair. No regulation or diversion upstream from station. See schematic diagram of Santa Ana River basin.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 6,180 ft³/s, Mar. 2, 1938, gage height unknown, on basis of slope-area measurement of peak flow; no flow Aug. 6-8, Sept. 29, 30, 1965.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 80 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Jan. 4	1730	108	2.83	Feb. 14	0745	181	3.43
Jan. 10	1645	*202	*3.58	Mar. 11	0145	150	3.19

Minimum daily, 1.7 ft³/s, Nov. 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	2.1	1.7	2.0	2.0	3.2	4.3	5.9	5.5	4.2	3.5	2.8	2.6
2	2.2	1.8	2.0	2.4	3.2	4.4	5.3	5.4	4.3	3.4	2.7	2.5
3	2.3	1.8	1.9	4.1	3.3	6.0	5.2	5.3	4.1	e3.4	2.6	2.4
4	2.4	2.1	1.8	24	3.3	4.9	5.0	5.3	3.7	e3.3	2.7	2.4
5	2.5	2.0	1.8	4.7	3.1	7.5	5.1	5.3	3.5	e3.2	2.8	2.5
6	2.3	2.1	1.9	2.7	3.1	6.7	4.9	5.6	3.4	e3.3	2.9	2.6
7	2.2	2.0	1.9	5.3	3.3	5.5	5.0	5.5	3.4	e3.4	2.6	2.7
8	2.2	2.1	1.9	9.5	3.4	5.5	4.8	5.3	3.3	e3.3	2.6	2.8
9	2.2	2.1	1.8	4.9	3.5	5.5	4.9	5.2	3.6	e3.3	2.7	2.8
10	2.2	2.1	1.8	64	3.5	5.8	4.7	5.0	3.5	e3.3	2.6	2.6
11	2.1	2.0	1.8	30	3.5	49	4.7	5.1	3.3	e3.4	2.6	2.8
12	2.3	1.9	1.8	4.0	3.5	11	4.9	5.1	3.4	e3.3	2.6	2.8
13	2.3	2.2	1.8	2.6	5.8	7.7	4.8	4.9	3.3	e3.3	2.6	2.9
14	2.2	2.2	1.9	2.3	35	7.2	4.9	4.4	3.4	e3.3	2.6	2.9
15	2.3	2.2	1.8	2.3	5.6	6.4	5.1	4.6	3.6	3.4	2.3	2.9
16	2.2	2.3	1.8	2.3	3.7	6.8	6.1	4.6	4.2	3.1	2.4	2.8
17	2.2	2.2	1.9	2.3	3.7	7.1	5.5	4.6	4.0	3.1	2.4	2.6
18	2.2	2.1	1.8	2.4	3.9	6.4	5.4	4.5	3.9	2.9	2.4	2.6
19	2.1	1.8	1.8	2.4	4.1	6.2	5.2	4.3	3.5	2.9	2.4	2.7
20	2.1	2.1	1.9	2.5	3.9	6.2	5.2	4.4	3.3	3.1	2.3	2.7
21	2.1	2.0	1.9	2.6	4.0	16	5.0	4.7	3.5	3.1	2.4	2.5
22	2.1	2.0	1.9	2.7	4.1	7.6	4.8	4.8	3.6	2.8	2.5	2.5
23	2.0	1.9	1.8	3.4	4.1	15	4.6	4.8	3.6	2.7	2.4	2.6
24	2.1	2.0	2.0	23	4.1	8.4	4.6	4.8	3.4	2.7	2.4	2.6
25	2.1	2.0	2.1	21	4.2	7.2	4.6	4.9	3.3	2.8	2.4	2.6
26	2.1	2.1	2.0	7.0	4.1	6.6	4.8	4.8	3.3	2.6	2.6	2.6
27	2.0	2.0	2.0	4.7	4.3	6.5	5.5	4.6	3.3	2.8	2.4	2.6
28	2.0	2.0	2.0	3.8	4.2	6.1	5.6	4.3	3.3	e2.7	2.3	2.7
29	2.1	2.0	2.0	3.4	---	5.8	5.4	4.2	3.5	e2.7	2.3	2.7
30	2.1	2.0	2.0	3.2	---	5.9	5.4	4.1	3.6	2.6	2.6	2.6
31	2.0	---	1.9	3.2	---	5.9	---	4.1	---	2.8	2.6	---
TOTAL	67.3	60.8	58.7	254.7	138.7	261.1	152.9	150.0	107.3	95.5	78.5	79.6
MEAN	2.17	2.03	1.89	8.22	4.95	8.42	5.10	4.84	3.58	3.08	2.53	2.65
MAX	2.5	2.3	2.1	64	35	49	6.1	5.6	4.3	3.5	2.9	2.9
MIN	2.0	1.7	1.8	2.0	3.1	4.3	4.6	4.1	3.3	2.6	2.3	2.4
AC-FT	133	121	116	505	275	518	303	298	213	189	156	158

e Estimated.

SANTA ANA RIVER BASIN

11063500 LONE PINE CREEK NEAR KEENBROOK, CA--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1920 - 1995, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	.97	1.18	1.90	2.38	4.11	4.71	2.07	1.65	1.34	1.12	1.09	1.06
MAX	5.35	6.51	15.0	24.1	40.6	98.1	11.0	8.91	7.41	5.95	6.61	6.08
(WY)	1984	1966	1923	1969	1969	1938	1980	1980	1980	1993	1993	1993
MIN	.079	.091	.095	.094	.10	.10	.10	.10	.10	.10	.090	.093
(WY)	1991	1991	1991	1991	1964	1964	1961	1928	1928	1928	1965	1965

SUMMARY STATISTICS

FOR 1994 CALENDAR YEAR

FOR 1995 WATER YEAR

WATER YEARS 1920 - 1995

ANNUAL TOTAL	1160.8	1505.1	
ANNUAL MEAN	3.18	4.12	1.97
HIGHEST ANNUAL MEAN			11.4
LOWEST ANNUAL MEAN			.11
HIGHEST DAILY MEAN	24	Feb 7	64
LOWEST DAILY MEAN	1.7	Nov 1	1.7
ANNUAL SEVEN-DAY MINIMUM	1.8	Dec 9	1.8
INSTANTANEOUS PEAK FLOW			202
INSTANTANEOUS PEAK STAGE			3.58
ANNUAL RUNOFF (AC-FT)	2300	2990	1430
10 PERCENT EXCEEDS	4.5	5.7	4.2
50 PERCENT EXCEEDS	2.6	3.1	.56
90 PERCENT EXCEEDS	2.0	2.0	.10

11063510 CAJON CREEK BELOW LONE PINE CREEK, NEAR KEENBROOK, CA

LOCATION.--Lat 34°16'04", long 117°27'58", in NW 1/4 NW 1/4 sec.13, T.2 N., R.6 W., San Bernardino County, Hydrologic Unit 18070203, on left bank 0.25 mi downstream from Lone Pine Creek and 0.95 mi north of Keenbrook.

RAINAGE AREA.--56.5 mi².

PERIOD OF RECORD.--October 1971 to September 1977, October 1983 to current year.

AGE.--Water-stage recorder and concrete control. Elevation of gage is 2,600 ft above sea level, from topographic map. Oct. 1, 1971, to Sept. 30, 1977, at site 0.25 mi upstream at abandoned diversion dam at different datum.

REMARKS.--Records fair. Concrete control installed Oct. 1, 1987. No regulation or diversion upstream from station. See schematic diagram of Santa Ana River basin.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 6,700 ft³/s, Feb. 8, 1993, gage height, 8.48 ft, from rating curve extended above 180 ft³/s on basis of slope-area measurement at gage height 8.48 ft; minimum daily, 1.7 ft³/s, Sept. 5, 6, 1989.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 250 ft³/s and maximum (*), from rating curve extended above 180 ft³/s on basis of slope-area measurement at gage height 8.48 ft:

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Jan. 4	1800	1,150	6.13	Feb. 14	0730	1,580	6.41
Jan. 10	1545	*1,700	*6.48	Mar. 11	0145	1,660	6.46
Jan. 25	0045	489	5.52	Mar. 23	0930	431	5.48

Minimum daily, 6.0 ft³/s, 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	7.0	6.5	7.4	8.2	39	11	24	16	13	10	9.3	7.9
2	6.9	7.4	7.4	8.3	37	12	24	16	15	11	9.1	7.9
3	7.2	7.3	7.4	16	33	27	23	16	14	11	8.9	7.4
4	7.4	7.6	7.3	235	29	18	23	17	13	11	8.7	7.2
5	8.6	7.7	7.4	75	25	35	22	18	13	11	8.6	7.1
6	6.9	7.9	7.3	17	23	29	21	21	12	10	8.7	7.3
7	6.6	7.8	7.0	57	20	27	21	18	13	10	8.5	7.3
8	6.3	8.0	7.0	92	19	24	20	17	13	9.8	8.5	7.4
9	6.2	8.1	6.9	61	17	21	18	17	12	9.2	8.3	7.7
10	6.2	7.8	6.9	554	17	26	18	17	11	9.1	8.4	7.6
11	6.2	7.8	6.9	333	17	463	18	17	11	9.2	8.4	7.5
12	6.3	7.3	6.8	126	17	115	18	17	11	9.0	8.1	7.4
13	7.8	7.7	7.5	63	37	67	18	17	10	9.4	8.1	7.3
14	8.5	7.6	7.5	45	282	45	18	17	10	9.1	7.9	7.3
15	6.7	7.7	7.3	36	59	38	18	17	12	8.9	8.2	7.2
16	6.0	7.7	7.1	29	31	34	22	16	17	10	8.4	7.5
17	6.0	7.9	7.5	27	24	33	19	17	17	9.8	8.7	7.5
18	6.2	7.9	7.5	24	18	32	19	16	15	8.9	8.7	7.3
19	e6.3	7.3	7.4	23	17	29	19	16	14	8.6	e8.8	7.3
20	e6.5	8.0	7.6	23	15	28	19	16	14	8.8	e8.8	7.4
21	e6.9	7.6	7.6	23	15	96	17	15	13	9.3	8.9	7.4
22	e7.1	7.6	7.7	21	14	39	17	17	13	9.4	8.7	7.5
23	e7.1	7.4	8.1	34	13	98	17	16	12	9.3	8.8	7.5
24	e7.1	7.5	9.0	289	14	43	20	17	11	9.1	8.7	7.7
25	e7.1	7.4	17	276	13	39	17	16	11	8.9	8.7	7.7
26	e7.2	7.7	9.7	109	14	32	17	15	11	8.4	8.4	7.9
27	7.3	7.5	8.8	74	12	30	18	15	10	9.0	7.9	7.8
28	7.4	7.4	8.9	67	12	28	18	13	10	8.8	7.7	8.7
29	7.7	7.4	8.5	58	---	26	17	13	10	8.5	7.8	8.6
30	7.6	7.4	8.4	55	---	26	16	12	10	9.0	7.8	8.0
31	6.9	---	8.3	48	---	26	---	12	---	9.4	7.6	---
TOTAL	215.2	227.9	247.1	2906.5	883	1597	576	500	371	292.9	262.1	227.3
MEAN	6.94	7.60	7.97	93.8	31.5	51.5	19.2	16.1	12.4	9.45	8.45	7.58
MAX	8.6	8.1	17	554	282	463	24	21	17	11	9.3	8.7
MIN	6.0	6.5	6.8	8.2	12	11	16	12	10	8.4	7.6	7.1
AC-FT	427	452	490	5770	1750	3170	1140	992	736	581	520	451

e Estimated.

11063510 CAJON CREEK BELOW LONE PINE CREEK, NEAR KEENBROOK, 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	5.52	5.94	9.58	22.2	22.1	17.6	10.2	8.13	6.15	5.24	4.91	6.02
MAX	14.8	13.2	26.5	134	121	51.5	27.7	17.4	15.8	16.0	15.1	24.5
(WY)	1984	1984	1972	1993	1993	1995	1993	1993	1993	1993	1993	1976
MIN	2.00	1.97	2.05	2.33	5.06	4.31	2.93	3.39	1.98	2.05	2.12	1.99
(WY)	1991	1992	1991	1991	1977	1990	1977	1976	1990	1990	1990	1990

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1972 - 1995	
ANNUAL TOTAL	3652.0		8306.0			
ANNUAL MEAN	10.0		22.8		10.2	
HIGHEST ANNUAL MEAN					35.5	
LOWEST ANNUAL MEAN					3.80	
HIGHEST DAILY MEAN	129	Feb 7	554	Jan 10	850	Feb 8 1993
LOWEST DAILY MEAN	6.0	Oct 16	6.0	Oct 16	1.7	Sep 5 1989
ANNUAL SEVEN-DAY MINIMUM	6.4	Oct 15	6.4	Oct 15	1.8	Sep 2 1989
INSTANTANEOUS PEAK FLOW			1700	Jan 10	6700	Feb 8 1993
INSTANTANEOUS PEAK STAGE			6.48	Jan 10	8.48	Feb 8 1993
ANNUAL RUNOFF (AC-FT)	7240		16470		7410	
10 PERCENT EXCEEDS	12		34		16	
50 PERCENT EXCEEDS	8.3		10		5.7	
90 PERCENT EXCEEDS	6.8		7.3		2.7	

11063680 DEVIL CANYON CREEK NEAR SAN BERNARDINO, CA

LOCATION.--Lat 34°12'30", long 117°19'50", in Muscupiabe Grant, San Bernardino County, Hydrologic Unit 18070203, on left bank 0.6 mi downstream from confluence of East and West Forks and 7.5 mi northwest of San Bernardino.

DRAINAGE AREA.--5.49 mi².

PERIOD OF RECORD.--November 1911 to September 1912, October 1913 to September 1914, December 1919 to current year. Monthly figures only for January 1914, published in WSP 1315-B.

REVISED RECORDS.--WSP 1928: Drainage area.

GAGE.--Water-stage recorder on creek; flowmeter on diversion. Elevation of gage is 2,080 ft above sea level, from topographic map. Prior to December 1919, nonrecording gage at site 0.5 mi downstream at different datum. December 1919 to July 1969, at site 0.4 mi downstream at different datum. July 1969 to September 1972, present gage used as supplementary gage. Oct. 1, 1973, to Feb. 25, 1974, supplementary gage at site 0.5 mi downstream at different datum.

REMARKS.--No estimated daily discharges. Records good. No regulation upstream from station. City of San Bernardino diverts upstream from station for municipal supply. See schematic diagram of Santa Ana River basin. Records given below are for creek only unless otherwise indicated.

COOPERATION.--Records of diversion were provided by city of San Bernardino.

EXTREMES FOR PERIOD OF RECORD (1913-14 and since 1919).--Maximum discharge, 3,720 ft³/s, Jan. 25, 1969, gage height, 5.40 ft, site and datum then in use, on basis of slope-area measurement of peak flow; no flow at times in some years.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 50 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Jan. 4	2300	90	5.81	Mar. 5	1715	*252	*6.29
Jan. 11	0530	167	6.07	Mar. 11	0730	120	5.93
Jan. 25	1830	56	5.66	Mar. 21	1030	67	5.71
Feb. 14	0315	112	5.89				

Minimum daily, 0.05 ft³/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	.05	.34	1.6	2.0	13	13	20	11	8.3	5.4	2.5	2.5
2	.14	.78	1.4	1.1	11	14	19	11	8.4	5.4	2.5	2.4
3	.16	1.3	1.4	2.9	10	19	19	11	8.4	5.5	2.4	2.3
4	.63	.81	1.4	23	9.4	16	19	11	8.1	5.6	2.4	2.3
5	5.3	.75	1.4	22	8.8	83	18	11	7.8	5.2	2.4	2.3
6	1.1	.64	1.2	8.0	8.4	61	17	13	7.8	5.0	2.3	2.2
7	.77	.65	1.2	15	8.1	32	17	11	7.8	5.0	2.3	2.0
8	.59	.92	1.2	63	7.8	24	16	11	8.1	4.9	2.3	2.0
9	.23	.64	1.2	49	7.6	19	16	11	8.2	4.7	2.3	2.0
10	.30	1.8	1.2	64	7.2	16	15	11	8.0	4.9	2.3	2.0
11	.23	2.0	1.2	83	7.2	56	14	11	7.6	4.4	2.3	2.0
12	.20	1.8	1.2	36	7.2	40	14	11	7.2	4.3	2.3	2.0
13	.19	1.3	1.5	24	23	36	15	11	7.2	4.3	2.3	1.9
14	.19	.81	1.4	18	81	33	15	11	7.2	4.3	2.3	1.8
15	.20	.81	1.3	19	38	31	15	11	8.3	4.3	2.3	1.8
16	.33	.88	1.2	14	23	29	17	11	9.9	4.3	2.3	1.8
17	.34	.64	1.2	12	18	26	16	11	9.2	4.0	2.3	1.8
18	.34	.64	1.2	10	16	25	15	10	8.0	3.3	2.3	1.8
19	.34	.64	1.2	9.4	14	24	15	9.6	7.7	3.5	2.3	1.8
20	.34	.64	1.2	8.6	13	23	14	9.3	7.2	3.4	2.2	1.8
21	.34	.64	1.2	8.5	14	31	14	9.0	6.7	3.3	2.1	1.8
22	.34	.64	1.3	7.8	13	24	13	9.1	6.6	3.5	2.2	1.7
23	.34	.64	1.9	8.5	12	33	13	9.1	6.1	3.5	2.3	1.6
24	.34	.78	4.8	22	12	27	12	9.1	6.1	3.4	2.5	1.6
25	.34	.81	7.8	29	12	25	12	9.1	6.1	3.1	2.5	1.6
26	.34	4.2	3.7	31	12	24	12	9.1	6.1	3.1	2.5	1.6
27	.34	2.4	2.4	25	13	25	12	8.7	6.0	3.0	2.5	1.6
28	.34	1.4	2.5	21	12	23	12	8.4	5.5	2.8	2.5	1.6
29	.34	1.3	2.7	19	---	22	11	8.4	5.5	2.8	2.5	1.8
30	.34	1.9	2.0	17	---	22	11	8.2	5.5	2.5	2.5	1.8
31	.34	---	2.0	15	---	21	---	8.1	---	2.5	2.5	---
TOTAL	15.71	33.50	58.1	687.8	431.7	897	448	314.2	220.6	125.2	73.2	57.2
MEAN	.51	1.12	1.87	22.2	15.4	28.9	14.9	10.1	7.35	4.04	2.36	1.91
MAX	5.3	4.2	7.8	83	81	83	20	13	9.9	5.6	2.5	2.5
MIN	.05	.34	1.2	1.1	7.2	13	11	8.1	5.5	2.5	2.1	1.6
AC-FT	31	66	115	1360	856	1780	889	623	438	248	145	113
a	31	66	115	1360	856	1780	889	623	438	248	145	113

a Combined discharge, in acre-feet, of Devil Canyon Creek and City of San Bernardino Diversion.

11063680 DEVIL CANYON CREEK NEAR SAN BERNARDINO, CA--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1920 - 1995, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	.32	.94	1.72	3.53	6.63	7.51	4.38	2.14	.93	.51	.34	.32
MAX	3.36	12.9	14.0	44.4	108	72.9	28.3	15.2	7.35	4.66	3.83	3.33
(WY)	1984	1966	1967	1993	1980	1938	1978	1983	1995	1993	1993	1976
MIN	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
(WY)	1926	1926	1926	1926	1948	1951	1951	1951	1947	1926	1925	1924

SUMMARY STATISTICS

FOR 1994 CALENDAR YEAR

FOR 1995 WATER YEAR

WATER YEARS 1920 - 1995

ANNUAL TOTAL	892.64			3362.21					
ANNUAL MEAN	2.45			9.21			2.39		
HIGHEST ANNUAL MEAN							16.1		
LOWEST ANNUAL MEAN							.000		
HIGHEST DAILY MEAN	26	Feb	8	83	Jan	11	556	Jan	25 1969
LOWEST DAILY MEAN	.05	Oct	1	.05	Oct	1	.00	Sep	23 1921
ANNUAL SEVEN-DAY MINIMUM	.22	Oct	9	.22	Oct	9	.00	Sep	23 1921
INSTANTANEOUS PEAK FLOW				252	Mar	5	3720	Jan	25 1969
INSTANTANEOUS PEAK STAGE				6.29	Mar	5	5.40	Jan	25 1969
ANNUAL RUNOFF (AC-FT)	1770			6670			1730		
10 PERCENT EXCEEDS	4.9			22			5.0		
50 PERCENT EXCEEDS	1.6			5.4			.10		
90 PERCENT EXCEEDS	.34			.64			.00		

11065000 LYTLE CREEK AT COLTON, CA

LOCATION.--Lat 34°04'44", long 117°18'17", in San Bernardino Grant, San Bernardino County, Hydrologic Unit 18070203, on right bank 400 ft downstream from Colton Avenue, 1,930 ft upstream from outlet end of channel, and 1.3 mi northeast of Colton.

DRAINAGE AREA.--186 mi².

PERIOD OF RECORD.--October 1957 to September 1983, October 1984 to current year.

REVISED RECORDS.--WDR CA-83-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 974.67 ft above sea level (levels by U.S. Army Corps of Engineers).

REMARKS.--Records poor. Flow partly regulated by Lytle Creek spreading grounds 3.2 mi upstream. Diversions upstream from station for irrigation, power development, domestic use, and ground-water replenishment. See schematic diagram of Santa Ana River basin.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 17,500 ft³/s, Mar. 4, 1978, gage height, 14.8 ft, from rating curve extended above 4,200 ft³/s on basis of discharge for design flood at gage height 21.4 ft; no flow for many days most years.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 2,520 ft³/s, Jan. 10, gage height, 4.56 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	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2	.00	.00	.00	.00	.00	.08	.00	.00	.00	.00	.00	.00
3	.00	.00	.00	5.1	.00	4.0	.00	.00	.00	.00	.00	.00
4	.00	.00	.00	295	.00	1.7	.00	.00	.00	.00	.00	.00
5	21	.00	.00	93	.00	470	.00	.00	.00	.00	.00	.00
6	.79	.00	.00	.31	.00	233	.00	.00	.00	.00	.00	.00
7	.03	.00	.00	60	.00	1.6	.00	.00	.00	.00	.00	.00
8	.00	.00	.00	102	.00	.05	.00	.00	.00	.00	.00	.00
9	.00	.00	.00	9.4	.00	.00	.00	.00	.00	.00	.00	.00
10	.08	7.0	.00	696	.00	.29	.00	.00	.00	.00	.00	.00
11	.02	.00	.00	393	.00	742	.00	.00	.00	.00	.00	.00
12	.00	.00	.00	12	.00	e102	.00	.00	.00	.00	.00	.00
13	.00	.00	.15	.51	2.2	e2.1	.00	.00	.00	.00	.00	.00
14	.00	35	.00	.05	398	e.15	.00	.00	.00	.00	.00	.00
15	.00	1.0	.00	.07	40	e.02	.00	.00	1.1	.00	.00	.00
16	.00	.65	.00	5.7	.00	e.00	16	.00	28	.00	.00	.00
17	.00	.35	.00	.10	.00	e.00	.00	.00	.11	.00	.00	.00
18	.00	.25	.00	.00	.00	e.00	.00	.00	.00	.00	.00	.00
19	.00	.00	.00	.00	.00	e.00	.00	.00	.00	.00	.00	.00
20	.00	.00	.00	.00	.00	e.00	.00	.00	.00	.00	.00	.00
21	.00	.00	.00	.12	.00	7.2	.00	.00	.00	.00	.00	.00
22	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
23	.00	.00	.00	3.4	.00	64	.00	.00	.00	.00	.00	.00
24	.00	.00	1.9	28	.00	.00	.00	.00	.00	.00	.00	.00
25	.00	.00	11	141	.00	.00	.00	.00	.00	.00	.00	.00
26	.00	2.3	.00	3.4	.00	.00	.00	.00	.00	.00	.00	.00
27	.00	.00	.00	.01	.00	.00	.00	.00	.00	.00	.00	.00
28	.00	.00	1.2	.00	.00	.00	.00	.00	.00	.00	.00	.00
29	.00	.00	.09	.00	---	.00	.00	.00	.00	.00	.00	.00
30	.00	.00	.00	.00	---	.00	.00	.00	.00	.00	.00	.00
31	.00	---	.00	.00	---	.00	---	.00	---	.00	.00	---
TOTAL	21.92	46.55	14.34	1848.17	440.20	1628.19	16.00	0.00	29.21	0.00	0.00	0.00
MEAN	.71	1.55	.46	59.6	15.7	52.5	.53	.000	.97	.000	.000	.000
MAX	21	35	11	696	398	742	16	.00	28	.00	.00	.00
MIN	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
AC-FT	43	92	28	3670	873	3230	32	.00	58	.00	.00	.00

e Estimated.

SANTA ANA RIVER BASIN

11065000 LYTLE CREEK AT COLTON, 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	.81	5.00	8.37	21.6	30.3	22.2	4.78	4.60	2.59	1.26	.82	.84
MAX	15.8	79.1	104	318	363	328	57.3	87.6	61.3	35.4	17.1	9.58
(WY)	1981	1966	1966	1969	1980	1978	1969	1969	1978	1978	1969	1980
MIN	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
(WY)	1958	1958	1959	1963	1961	1959	1961	1959	1958	1958	1958	1958

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR				FOR 1995 WATER YEAR				WATER YEARS 1958 - 1995			
ANNUAL TOTAL	423.80				4044.58							
ANNUAL MEAN	1.16				11.1				8.51			
HIGHEST ANNUAL MEAN									65.4			
LOWEST ANNUAL MEAN									.008			
HIGHEST DAILY MEAN	110				742				5040			
LOWEST DAILY MEAN	.00				.00				.00			
ANNUAL SEVEN-DAY MINIMUM	.00				.00				.00			
INSTANTANEOUS PEAK FLOW					2520				17500			
INSTANTANEOUS PEAK STAGE					4.56				14.80			
ANNUAL RUNOFF (AC-FT)	841				8020				6170			
10 PERCENT EXCEEDS	.05				1.1				4.2			
50 PERCENT EXCEEDS	.00				.00				.00			
90 PERCENT EXCEEDS	.00				.00				.00			

11066460 SANTA ANA RIVER AT MWD CROSSING, NEAR ARLINGTON, CA

LOCATION.--Lat 33°58'07", long 117°26'51", in NE 1/4 SW 1/4 sec.30, T.2 S., R.5 W., Riverside County, Hydrologic Unit 18070203, on left bank at MWD pipeline crossing, 0.8 mi downstream from Union Pacific Railroad Bridge, 1.1 mi upstream from bridge on Van Buren Boulevard, and 3.3 mi north of Arlington.

RAINAGE AREA.--852 mi².

WATER-DISCHARGE RECORDS

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

REVISED RECORDS.--WDR CA-83-1: Drainage area.

AGE.--Water-stage recorder. Elevation of gage is 685 ft above sea level, from topographic map. Gage moved to left bank at present datum on June 17, 1993 (formerly on right bank). Prior to Oct. 1, 1984, water-stage recorder at site 300 ft upstream on left bank at different datum.

REMARKS.--Records fair except for period from January through May and estimated daily discharges, which are poor. Flow partly regulated by Big Bear Lake (station 11049000). Natural streamflow affected by ground-water withdrawals, diversions for irrigation, and return flows from irrigated areas. The records at this station are equivalent to those collected at Santa Ana River at Riverside Narrows, near Arlington minus the flow at Riverside Water-Quality Control Plant at Riverside Narrows, near Arlington. See schematic diagram of Santa Ana River basin.

XTREMES FOR PERIOD OF RECORD.--Maximum discharge, 30,700 ft³/s, Mar. 6, 1995, gage height, 14.47 ft, on basis of area-velocity study; maximum gage height, 20.23 ft, Mar. 4, 1978; minimum daily, 15 ft³/s, Sept. 7, 8, 1980.

XTREMES OUTSIDE PERIOD OF RECORD.--Maximum discharge since at least 1927, 100,000 ft³/s, Mar. 2, 1938, on basis of slope-area measurement at site 1.1 mi downstream. Flood of Jan. 22, 1862, 320,000 ft³/s, on basis of slope-conveyance study at site 8.2 mi upstream. Stage at that site was 5 ft higher than that of Mar. 2, 1938.

XTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 1,500 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
ec. 25	1115	2,260	9.25	Feb. 14	1945	7,250	11.94
an. 4	2015	7,000	12.22	Mar. 6	0100	*30,700	*14.47
an. 10	2045	25,200	14.37	Mar. 11	1045	11,900	10.61
an. 25	1945	3,570	9.84	Mar. 23	1145	2,540	8.32

Minimum daily, 35 ft³/s, Oct. 2.

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	36	65	e75	75	134	200	502	287	177	75	50	47
2	35	66	74	73	105	233	459	273	177	74	51	48
3	44	71	68	283	81	420	427	258	170	71	40	48
4	49	75	68	1790	53	405	399	253	159	75	44	43
5	165	66	68	2380	69	5890	367	238	144	75	48	38
6	94	67	73	247	70	9540	336	248	144	73	44	40
7	51	81	68	520	73	3000	312	238	142	72	47	37
8	47	80	61	1330	46	2330	301	243	168	67	45	38
9	49	83	58	900	46	1970	282	252	148	68	48	40
10	45	315	59	5590	45	1920	267	240	141	59	52	43
11	55	165	55	4710	57	6280	258	224	145	59	47	46
12	53	112	62	1250	50	2550	230	223	151	55	48	41
13	56	97	68	541	66	1640	232	211	129	56	56	41
14	66	132	60	256	2760	1270	202	202	153	58	53	40
15	71	86	60	202	1950	946	191	207	153	57	53	39
16	61	88	73	e185	1370	832	307	209	369	55	53	42
17	64	82	72	e120	708	792	232	203	263	62	53	45
18	63	77	64	e110	299	981	234	208	184	56	56	44
19	62	73	69	e100	251	1240	272	232	160	52	53	46
20	61	78	74	e85	216	1250	237	227	130	53	55	45
21	62	82	80	e75	162	1500	233	218	120	51	49	44
22	60	72	87	e70	300	1500	241	218	102	51	49	46
23	60	64	81	120	180	1590	242	225	90	50	47	48
24	66	65	125	656	244	1320	254	232	89	50	51	48
25	63	68	906	1440	198	1370	244	234	93	50	56	52
26	62	87	120	967	181	1190	217	225	96	49	55	51
27	56	78	81	402	219	1070	240	202	87	48	55	51
28	58	e76	74	315	195	912	259	180	77	49	51	53
29	66	e75	119	285	---	753	264	172	74	46	51	53
30	71	e74	80	262	---	574	274	164	77	48	47	55
31	74	---	73	164	---	525	---	159	---	46	45	---
OTAL	1925	2680	3155	25503	10130	55993	8515	6905	4312	1810	1552	1352
EAN	62.1	89.3	102	823	362	1806	284	223	144	58.4	50.1	45.1
AX	165	315	906	5590	2760	9540	502	287	369	75	56	55
IN	35	62	55	70	45	200	191	159	74	46	40	37
C-FT	3820	5320	6260	50590	20090	111100	16890	13700	8550	3590	3080	2680

e Estimated.

11066460 SANTA ANA RIVER AT MWD CROSSING, NEAR ARLINGTON, CA--Continued

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	55.2	70.7	97.0	230	255	345	149	108	72.3	47.6	46.8	47.6
MAX	194	259	292	1839	1411	1806	604	666	351	145	233	129
(WY)	1988	1984	1984	1993	1980	1995	1983	1983	1983	1983	1983	1976
MIN	20.5	21.2	23.3	24.7	23.1	23.7	23.1	22.3	20.2	16.8	17.9	18.0
(WY)	1974	1975	1974	1972	1972	1972	1971	1972	1981	1981	1981	1974

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR				FOR 1995 WATER YEAR				WATER YEARS 1970 - 1995			
ANNUAL TOTAL	26710				123832							
ANNUAL MEAN	73.2				339				129			
HIGHEST ANNUAL MEAN									416			
LOWEST ANNUAL MEAN									29.0			
HIGHEST DAILY MEAN	1590				Feb 8				9540			
LOWEST DAILY MEAN	23				Sep 14				35			
ANNUAL SEVEN-DAY MINIMUM	26				Sep 9				40			
INSTANTANEOUS PEAK FLOW									30700			
INSTANTANEOUS PEAK STAGE									14.47			
ANNUAL RUNOFF (AC-FT)	52980				245600				93430			
10 PERCENT EXCEEDS	87				808				195			
50 PERCENT EXCEEDS	49				81				52			
90 PERCENT EXCEEDS	33				47				22			

11066460 SANTA ANA RIVER AT MWD CROSSING, NEAR ARLINGTON, CA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--

CHEMICAL DATA: Water years 1970 to current year.

SPECIFIC CONDUCTANCE: Water years 1970-78.

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)	TEMPER- ATURE WATER (DEG C)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)
OCT					
05...	1430	64	885	22.0	566
27...	1125	61	1000	19.0	646
NOV					
10...	0900	91	855	15.5	538
22...	1300	62	935	15.5	590
DEC					
15...	0945	57	950	11.5	602
29...	1145	93	740	14.5	454
JAN					
17...	1500	108	790	16.0	482
FEB					
01...	1100	110	895	18.0	546
16...	1015	1310	305	12.5	182
MAR					
06...	1600	4490	215	16.5	142
23...	1530	1960	230	16.0	138
APR					
07...	1450	301	533	20.5	332
20...	1230	208	570	16.5	346
MAY					
03...	1645	260	570	27.0	350
18...	1235	187	606	19.0	358
JUN					
06...	1603	174	617	27.0	362
24...	1250	83	852	29.5	532
JUL					
07...	1027	73	914	25.5	564
27...	1210	49	1060	32.0	664
AUG					
04...	1345	49	1110	31.0	700
10...	0750	56	1100	20.0	694
SEP					
01...	1000	48	1090	24.5	672
22...	1102	45	1070	25.0	676

11070020 BAUTISTA CREEK AT HEAD OF FLOOD CONTROL CHANNEL, NEAR HEMET, CA

LOCATION.--Lat 33°42'42", long 116°52'04", in NW 1/4 NE 1/4 sec.27, T.5 S., R.1 E., Riverside County, Hydrologic Unit 18070202, on right bank at the head of the concrete-lined flood channel, 3.7 mi upstream from the mouth, and 3.0 mi southeast of Valle Vista.

DRAINAGE AREA.--47.6 mi².

PERIOD OF RECORD.--October 1987 to current year.

GAGE.--Water-stage recorder, concrete control and crest-stage gage. Elevation of gage is 2,080 ft above sea level, from topographic map. Prior to October 1988 at datum 10.00 ft lower.

REMARKS.--No estimated daily discharges. Records fair. No regulation upstream from station. Sand and gravel operations upstream from station may reduce runoff and cause peak attenuation. Minor diversion upstream from station for irrigation. See schematic diagram of Santa Ana River basin.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,310 ft³/s, Jan. 16, 1993, gage height, 3.53 ft, from rating curve developed on basis of critical-depth computations at concrete control; no flow for most of each year.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 100 ft³/s and maximum (*), from rating curve developed on basis of critical-depth computations at concrete control:

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Jan. 5	0030	240	1.85	Mar. 11	1000	618	2.58
Jan. 10	1930	320	2.03	Mar. 23	1600	112	1.50
Feb. 14	2000	257	1.89	Apr. 16	0700	128	1.55
Mar. 6	0100	*898	*3.00	Sept. 2	1515	236	1.84

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	.00	.00	.00	.00	.00	.00	.00	.00
2	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	15
3	.00	.00	.00	.00	.00	.42	.00	.00	.00	.00	.00	.07
4	.00	.00	.00	32	.00	.00	.00	.00	.00	.00	.00	.00
5	.00	.00	.00	52	.00	159	.00	.00	.00	.00	.00	.00
6	.00	.00	.00	.29	.00	206	.00	7.1	.00	.00	.00	.00
7	.00	.00	.00	6.2	.00	10	.00	.00	.00	.00	.00	.00
8	.00	.00	.00	7.0	.00	1.4	.00	.00	.00	.00	.00	.00
9	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10	.00	.00	.00	55	.00	1.3	.00	.00	.00	.00	.00	.00
11	.00	.00	.00	64	.00	208	.00	.00	.00	.00	.00	.00
12	.00	.00	.00	16	.00	62	.00	.00	.00	.00	.00	.00
13	.13	.00	.00	.12	2.2	24	.00	.01	.00	.00	.00	.00
14	.00	.00	.00	2.4	61	13	.00	.00	.00	.00	.00	.00
15	.00	.00	.00	2.0	41	1.3	.00	.00	.03	.00	.00	.00
16	.00	.00	.00	.00	.00	.00	16	.00	.30	.00	.00	.00
17	.00	.00	.00	.00	.00	.00	6.0	.00	.00	.00	.00	.00
18	.00	.00	.00	.00	.00	.00	20	.00	.00	.00	.00	.00
19	.00	.00	.00	.00	.00	.00	17	.00	.00	.00	.00	.00
20	.00	.00	.00	.00	.00	.00	1.3	.00	.00	.00	.00	.00
21	.00	.00	.00	.37	.00	17	.00	.00	.00	.00	.00	.00
22	.00	.00	.00	.00	.00	4.2	.00	.00	.00	.00	.00	.00
23	.00	.00	.00	.00	.00	45	.00	.00	.00	.00	.00	.00
24	.00	.00	.00	.46	.00	41	.00	.00	.00	.00	.00	.00
25	.00	.00	.00	1.9	.00	24	.00	.00	.00	.00	.00	.00
26	.00	.00	.00	17	.00	1.2	.00	.00	.00	.00	.00	.00
27	.00	.00	.00	.33	.00	.00	.00	.00	.00	.00	.00	.00
28	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
29	.00	.00	.09	.00	---	.00	.00	.00	.00	.00	.00	.00
30	.00	.00	.00	.00	---	.00	.00	.00	.00	.00	.00	.00
31	.00	---	.00	.00	---	.00	---	.00	---	.00	.00	---
TOTAL	0.13	0.00	0.09	257.07	104.20	818.82	60.30	7.11	0.33	0.00	0.00	15.07
MEAN	.004	.000	.003	8.29	3.72	26.4	2.01	.23	.011	.000	.000	.50
MAX	.13	.00	.09	64	61	208	20	7.1	.30	.00	.00	15
MIN	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
AC-FT	.3	.00	.2	510	207	1620	120	14	.7	.00	.00	30

11070020 BAUTISTA CREEK AT HEAD OF FLOOD CONTROL CHANNEL, NEAR HEMET, 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	.001	.001	.016	4.96	3.36	4.83	.29	.029	.002	.000	.091	.063
MAX	.004	.007	.12	31.1	22.3	26.4	2.01	.23	.011	.000	.55	.50
(WY)	1995	1994	1988	1993	1993	1995	1995	1995	1995	1988	1994	1995
MIN	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
(WY)	1988	1988	1989	1989	1989	1989	1989	1988	1988	1988	1989	1988

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1988 - 1995	
ANNUAL TOTAL	18.00		1263.12			
ANNUAL MEAN	.049		3.46		1.13	
HIGHEST ANNUAL MEAN					4.35	
LOWEST ANNUAL MEAN					.000	
HIGHEST DAILY MEAN	17	Aug 9	208	Mar 11	298	Jan 16 1993
LOWEST DAILY MEAN	.00	Jan 1	.00	Oct 1	.00	Oct 1 1987
ANNUAL SEVEN-DAY MINIMUM	.00	Jan 1	.00	Oct 1	.00	Oct 1 1987
INSTANTANEOUS PEAK FLOW			898	Mar 6	1310	Jan 16 1993
INSTANTANEOUS PEAK STAGE			3.00	Mar 6	3.53	Jan 16 1993
ANNUAL RUNOFF (AC-FT)	36		2510		819	
10 PERCENT EXCEEDS	.00		1.2		.00	
50 PERCENT EXCEEDS	.00		.00		.00	
90 PERCENT EXCEEDS	.00		.00		.00	

11070270 PERRIS VALLEY STORM DRAIN AT NUEVO ROAD, NEAR PERRIS, CA

LOCATION.--Lat 33°48'04", long 117°12'19", in SW 1/4 SW 1/4 sec.21, T.4 S., R.3 W., Riverside County, Hydrologic Unit 18070202, on right bank 1.9 mi northeast of Perris and 2.0 mi upstream from San Jacinto River.

DRAINAGE AREA.--93.3 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1969 to September 1975, October 1989 to current year.

REVISED RECORDS.--WDR CA-92-1: 1991(M).

GAGE.--Water-stage recorder and concrete control. Elevation of gage is 1,410 ft above sea level, from topographic map. October 1969 to September 1975, at same site at different datum.

REMARKS.--Records good except for estimated daily discharges, which are poor. Some regulation by percolation basins upstream from station. Some pumping for irrigation upstream from station. See schematic diagram of Santa Ana River basin.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 4,400 ft³/s, Feb. 12, 1992, gage height, 7.81 ft, from rating curve extended above 330 ft³/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 1,100 ft³/s, and maximum (*), from rating curve extended as explained above:

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Jan. 4	2000	*2,870	*6.65	Mar. 5	2030	1,360	4.96
Jan. 10	1900	2,800	6.58	Mar. 11	0815	2,150	5.92
Feb. 14	1630	2,280	6.06				

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	.00	.00	.00	.00	.00	.00	.00	.00
2	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	2.6
3	.00	.00	.00	46	.00	.34	.00	.00	.00	.00	.00	.23
4	.06	.00	.00	763	.00	.16	.00	.00	.00	.00	.00	.00
5	.31	.00	.00	e106	.00	424	.00	.00	.00	.00	.00	.00
6	.14	.00	.00	e2.4	.00	223	.00	18	.00	.00	.00	.00
7	.00	.00	.00	36	.00	9.6	.00	.27	.00	.00	.00	.00
8	.00	.00	.00	14	.00	.03	.00	.00	.00	.00	.00	.00
9	.00	.00	.00	8.1	.00	.00	.00	.00	.00	.00	.00	.00
10	.00	26	.00	814	.00	.00	.00	.00	.00	.00	.00	.00
11	.00	3.6	.00	232	.00	796	.00	.00	.00	.00	.00	.00
12	.00	.08	.00	125	.05	48	.00	.00	.00	.00	.00	.00
13	.00	.00	.00	5.0	.66	1.1	.00	.14	.00	.00	.00	.00
14	.00	.00	.22	.00	659	.01	.00	.04	.00	.00	.00	.00
15	.00	.00	.18	.00	101	.00	.00	.45	.00	.00	.00	.00
16	.20	.00	e.00	.00	1.7	.00	23	.00	12	.04	.00	.00
17	.12	.00	e.00	.00	.03	.00	1.8	.00	40	.00	.00	.00
18	.00	.00	e.00	.00	.00	.00	27	.00	.02	.00	.00	.00
19	.00	.00	e.00	.00	.00	.00	9.2	.00	.00	.00	.00	.00
20	.00	.00	e.00	.00	.00	.00	.06	.00	.00	.00	.00	.00
21	.00	.00	e.00	1.4	.00	35	.00	.00	.00	.00	.00	.00
22	.00	.00	e.00	.04	.00	4.7	.00	.00	.00	.00	.00	.00
23	.00	.00	e.75	.63	.00	113	.00	.00	.00	.00	.00	.00
24	.00	.00	2.7	70	.00	14	.00	.00	.00	.00	.00	.00
25	.00	.00	45	275	.00	.23	.00	.00	.00	.00	.00	.00
26	.00	.00	.32	71	.00	.00	.00	.00	.00	.00	.00	.00
27	.00	.00	.00	.53	.00	.00	.00	.00	.00	.00	.00	.00
28	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
29	.00	.00	6.1	.00	---	.00	.00	.00	.00	.00	.00	.00
30	.00	.00	.00	.00	---	.00	.00	.00	.00	.00	.00	.00
31	.00	---	.00	.00	---	.00	---	.00	---	.00	.00	---
TOTAL	0.83	29.68	55.27	2570.10	762.44	1669.17	61.06	18.90	52.02	0.04	0.00	2.83
MEAN	.027	.99	1.78	82.9	27.2	53.8	2.04	.61	1.73	.001	.000	.094
MAX	.31	26	45	814	659	796	27	18	40	.04	.00	2.6
MIN	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
AC-FT	1.6	59	110	5100	1510	3310	121	37	103	.08	.00	5.6

e Estimated.

11070270 PERRIS VALLEY STORM DRAIN AT NUEVO ROAD, NEAR PERRIS, CA--Continued

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	.12	.74	4.44	25.7	21.5	15.4	.74	.19	.19	.011	.001	.008
MAX	.99	3.78	35.1	167	87.5	70.7	4.87	1.06	1.73	.089	.006	.094
(WY)	1993	1973	1993	1993	1993	1991	1994	1990	1995	1992	1994	1995
MIN	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
(WY)	1970	1972	1970	1975	1971	1972	1970	1970	1970	1970	1970	1970

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR				FOR 1995 WATER YEAR				WATER YEARS 1970 - 1995			
ANNUAL TOTAL	1501.03				5222.34							
ANNUAL MEAN	4.11				14.3				5.69			
HIGHEST ANNUAL MEAN									24.4			
LOWEST ANNUAL MEAN									.30			
HIGHEST DAILY MEAN	227				814				1270			
LOWEST DAILY MEAN	.00				.00				.00			
ANNUAL SEVEN-DAY MINIMUM	.00				.00				.00			
INSTANTANEOUS PEAK FLOW					2870				4400			
INSTANTANEOUS PEAK STAGE					6.65				7.81			
ANNUAL RUNOFF (AC-FT)	2980				10360				4120			
10 PERCENT EXCEEDS	1.4				2.5				.13			
50 PERCENT EXCEEDS	.00				.00				.00			
90 PERCENT EXCEEDS	.00				.00				.00			

PRECIPITATION RECORDS

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

INSTRUMENTATION.--Recording tipping-bucket rain gage since Oct. 17, 1989.

REMARKS.--Periods of missing record due to instrument failures.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily rainfall, 2.81 in, Dec. 7, 1992; no rainfall for many days each year.

EXTREMES FOR CURRENT YEAR.--Maximum daily rainfall, 1.99 in, Jan. 4; no rainfall for many days.

PRECIPITATION, TOTAL (INCHES), WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	.00	.00	.00	.01	.00	.00	.00	.00	.00	.00
2	.00	.00	.00	.00	.00	.01	.00	.00	.00	.00	.00	.23
3	.00	e.18	.00	.59	.00	.06	.00	.00	.00	.00	.00	.00
4	e.03	.00	.00	1.99	.00	.02	.00	.00	.00	.00	.00	.00
5	e.08	.00	.00	.01	.00	.98	.00	.00	.00	.00	.00	.00
6	.00	.00	.00	.00	.00	.00	.00	.12	.00	.00	.00	.00
7	.00	.00	e.00	.60	.00	.00	.00	.01	.00	.00	.00	.00
8	.00	e.01	e.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
9	.00	.00	e.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10	.00	e.25	e.00	1.86	.00	.15	.00	.00	.00	.00	.00	.00
11	.00	.01	e.00	.04	.00	1.01	.00	.00	.00	.00	.00	.00
12	.00	.00	e.00	.28	.00	.00	.00	.00	.00	.00	.00	.00
13	.00	.00	e.08	.00	.14	.00	.00	.08	.00	.00	.00	.00
14	.00	.00	e.00	.00	1.68	.00	.00	.07	.00	.00	.00	.00
15	e.05	.00	e.00	.00	.00	.00	.00	.01	.00	.00	.00	.00
16	e.12	.01	e.00	.05	.00	.00	.45	.00	.12	.07	.00	.00
17	.00	.00	e.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
18	.00	e.01	e.00	.00	.00	.00	.31	.00	.00	.00	.00	.00
19	.00	.00	e.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
20	.00	.00	e.00	.00	.00	.00	.00	.00	.00	.00	.02	.00
21	.00	.00	e.00	.16	.00	.26	.00	.00	.00	.00	.00	.00
22	.00	.00	e.02	.02	.00	.00	.00	.00	.00	.00	.00	.00
23	.00	.00	e.15	.12	.00	.68	.00	.00	.00	.00	.00	.00
24	.00	.00	.24	.44	.00	.00	.00	.00	.00	.00	.00	.00
25	.00	.00	.19	.77	.00	.00	.00	.00	.00	.00	.00	.00
26	.00	e.08	.00	.02	.00	.00	.00	.00	.00	.00	.00	.00
27	.00	.00	.00	.00	.01	.00	.00	.00	.00	.00	.00	.00
28	.00	.00	.05	.00	.00	.00	.00	.00	.00	.00	.00	.00
29	.00	.00	.01	.00	---	.00	.00	.00	.00	.00	.00	.00
30	.00	.00	.00	.00	---	.00	.00	.00	.00	.00	.00	.00
31	.00	---	.01	.00	---	.00	---	.00	---	.00	.00	---
TOTAL	0.29	0.55	0.75	6.95	1.83	3.18	0.76	0.29	0.12	0.07	0.02	0.23

CAL YR 1994 TOTAL 10.32
WTR YR 1995 TOTAL 15.04

e Estimated

SANTA ANA RIVER BASIN

11070500 SAN JACINTO RIVER NEAR ELSINORE, CA

LOCATION.--Lat 33°39'51", long 117°17'35", in SE 1/4 NE 1/4 sec.9, T.6 S., R.4 W., Riverside County, Hydrologic Unit 18070203, on right bank 2.0 mi east of Elsinore, 2.1 mi downstream from Railroad Canyon Dam, and 36 mi downstream from Lake Hemet.

DRAINAGE AREA.--723 mi².

PERIOD OF RECORD.--January 1916 to current year. Monthly figures 1927-50, adjusted for diversion, published in WSP 1315-B.

REVISED RECORDS.--WDR CA-72-1: Drainage area.

GAGE.--Water-stage recorder. Elevation of gage is 1,270 ft above sea level, from topographic map. Prior to Feb. 13, 1916, nonrecording gage at site 0.7 mi downstream at different datum. Feb. 13, 1916, to Oct. 27, 1921, nonrecording gage at present site, at different datum.

REMARKS.--Records poor. Flow partly regulated by Lake Hemet, capacity 13,500 acre-ft, and since 1928 by Railroad Canyon Reservoir, capacity, 12,000 acre-ft, 2.1 mi upstream from station. Diversions for irrigation and domestic use upstream from Railroad Canyon Reservoir. Elsinore Valley Municipal Water District made no diversions during the current year from Railroad Canyon Reservoir for irrigation. See schematic diagram of Santa Ana River basin.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 16,000 ft³/s, Feb. 17, 1927, gage height, 11.8 ft, from rating curve extended above 2,000 ft³/s on basis of slope-area measurement of peak flow; no flow for many days in most years.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 2,560 ft³/s, Jan. 11, gage height, 9.36 ft; no flow Sept. 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	.31	.48	.96	1.1	7.1	e4.5	110	51	9.1	.64	.23	.04
2	.33	.53	.96	1.1	6.2	e4.2	100	97	12	.64	.23	.13
3	.40	.76	.97	1.7	5.9	e4.0	88	74	12	.66	.22	.04
4	.45	.66	.98	71	e5.2	e8.6	78	42	12	.70	.17	.00
5	.63	.63	1.0	268	e4.9	11	71	13	12	.69	.16	.05
6	.52	.61	.98	628	e4.6	629	64	13	12	.66	.14	.15
7	.45	.69	1.0	139	e4.2	237	61	12	12	.57	.11	.06
8	.35	.66	1.0	360	e4.0	5.0	56	17	12	.47	.12	.04
9	.30	.66	1.0	243	e3.8	5.4	53	10	7.6	.41	.17	.10
10	.27	.77	1.1	329	e3.6	57	45	7.2	9.5	.43	.21	.14
11	.26	.76	1.1	1680	e3.4	758	41	3.8	9.6	.42	.22	.14
12	.30	.70	1.1	495	e3.3	758	40	23	6.5	.40	.14	.11
13	.35	.69	1.1	274	6.2	337	39	94	2.3	.37	.11	.12
14	.41	.65	1.0	65	122	391	39	93	1.1	.37	.11	.10
15	.53	.65	1.0	22	960	615	38	41	1.6	.32	.15	.09
16	.49	.69	1.0	13	196	627	55	12	6.2	.42	.32	.13
17	.44	.74	1.0	8.1	48	543	77	3.1	8.1	.44	.27	.21
18	.40	.74	1.0	5.9	22	462	70	3.1	8.0	.36	.26	.19
19	.39	.72	1.0	4.8	16	389	95	3.3	5.4	.32	.22	.21
20	.41	.77	1.0	4.4	12	322	65	3.2	3.1	.29	.25	.25
21	.39	.78	1.0	4.7	9.0	279	47	2.5	5.5	.30	.25	.26
22	.41	.78	1.0	4.4	e7.9	282	40	2.5	4.5	.30	.24	.26
23	.43	.79	1.1	4.5	e7.1	265	35	5.7	1.1	.30	.20	.25
24	.42	.80	1.1	10	e6.4	373	32	5.0	.88	.30	.20	.26
25	.45	.81	1.3	157	e5.9	228	23	4.3	.81	.31	.20	.29
26	.49	.91	1.1	567	e5.3	185	19	8.3	.81	.28	.15	.34
27	.48	.84	1.1	154	e5.0	171	23	11	.78	.27	.11	.38
28	.47	.92	1.2	39	e4.8	157	25	11	.72	.24	.08	.42
29	.51	.88	1.2	17	---	145	26	11	.70	.22	.08	.44
30	.55	.92	1.1	11	---	134	25	11	.71	.23	.06	.42
31	.51	---	1.1	8.1	---	121	---	11	---	.23	.03	---
TOTAL	13.10	21.99	32.55	5590.8	1489.8	8507.7	1580	699.0	178.61	12.56	5.41	5.62
MEAN	.42	.73	1.05	180	53.2	274	52.7	22.5	5.95	.41	.17	.19
MAX	.63	.92	1.3	1680	960	758	110	97	12	.70	.32	.44
MIN	.26	.48	.96	1.1	3.3	4.0	19	2.5	.70	.22	.03	.00
AC-FT	26	44	65	11090	2960	16880	3130	1390	354	25	11	11

e Estimated.

SANTA ANA RIVER BASIN

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11070500 SAN JACINTO RIVER NEAR ELSINORE, CA--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1916 - 1995, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	.60	.76	5.24	36.9	90.4	75.8	24.5	5.77	.81	.62	.41	.52
MAX	22.0	28.1	268	1303	2116	802	333	132	13.8	19.7	14.6	15.4
(WY)	1938	1938	1922	1916	1980	1983	1941	1983	1937	1938	1937	1938
MIN	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
(WY)	1917	1917	1917	1921	1921	1921	1921	1921	1919	1918	1918	1917

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR				FOR 1995 WATER YEAR				WATER YEARS 1916 - 1995			
ANNUAL TOTAL	1129.49				18137.14							
ANNUAL MEAN	3.09				49.7				17.8			
HIGHEST ANNUAL MEAN									232			
LOWEST ANNUAL MEAN									.000			
HIGHEST DAILY MEAN	207				1680				14000			
LOWEST DAILY MEAN	.00				.00				.00			
ANNUAL SEVEN-DAY MINIMUM	.00				.05				.00			
INSTANTANEOUS PEAK FLOW					2560				16000			
INSTANTANEOUS PEAK STAGE					9.36				11.80			
ANNUAL RUNOFF (AC-FT)	2240				35980				12880			
10 PERCENT EXCEEDS	3.0				127				4.2			
50 PERCENT EXCEEDS	.88				1.1				.06			
90 PERCENT EXCEEDS	.08				.21				.00			

11072100 TEMESCAL CREEK ABOVE MAIN STREET, AT CORONA, CA

LOCATION.--Lat 33°53'21", long 117°33'43", in La Sierra Grant, Riverside County, Hydrologic Unit 18070203, on right bank 500 ft upstream from Main Street Bridge in Corona and 1.5 mi upstream from topographic boundary of Prado Flood Control basin.

DRAINAGE AREA.--224 mi², excludes 768 mi² above Lake Elsinore.

PERIOD OF RECORD.--December 1980 to July 1983, February 1984 to current year. December 1967 to September 1974, water-stage recorder at site 1.2 mi downstream at different datum (published as Station 11072200, Temescal Creek at Corona, CA).

GAGE.--Water-stage recorder and concrete-lined flood control channel. Elevation of gage is 600 ft above sea level, from topographic map. December 1980 to July 1983 at site 500 ft downstream at different datum.

REMARKS.--No estimated daily discharges. Records fair. Flow regulated by several small storage reservoirs. Many diversions upstream from station for irrigation. Water discharged to channel from Arlington Desalter at times since September 1990; records for water years 1981 to 1990 and 1991 to current year are not equivalent.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 4,720 ft³/s, Mar. 1, 1983, gage height, 11.67 ft; minimum daily, 0.27 ft³/s, Sept. 25, 1981.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum discharge, 8,850 ft³/s, Feb. 25, 1969, gage height, 8.17 ft, from floodmark, at old site (Station 11072200) 1.2 mi downstream on basis of slope-area measurement of peak flow.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 3,600 ft³/s, Jan. 4, gage height, 6.51 ft; minimum daily, 2.6 ft³/s, Dec. 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	13	9.9	12	4.5	42	58	349	89	66	22	6.4	6.4
2	14	12	12	5.6	36	60	329	89	65	22	8.4	6.4
3	12	12	12	70	35	69	311	89	62	22	8.1	6.1
4	17	11	13	685	34	59	298	94	54	22	9.0	7.2
5	22	12	16	152	32	611	288	99	49	21	7.4	6.5
6	13	12	16	45	34	577	275	108	44	20	8.2	6.9
7	13	12	17	279	35	215	268	95	41	20	8.5	6.7
8	14	12	16	124	36	156	254	93	37	19	7.6	6.3
9	13	12	13	45	37	144	240	87	32	17	7.7	5.6
10	13	52	2.6	842	37	146	218	90	29	15	7.8	5.1
11	13	12	3.6	633	38	889	201	108	27	14	8.0	5.3
12	13	10	3.9	329	38	425	188	120	27	12	6.8	5.4
13	14	10	17	155	42	285	176	128	24	11	6.7	5.0
14	14	11	4.7	92	470	280	164	132	21	11	8.0	5.9
15	13	11	4.0	66	334	285	157	134	30	11	7.9	4.8
16	12	11	3.9	49	130	292	219	137	95	17	8.4	5.6
17	12	7.9	3.9	36	92	314	149	122	38	12	8.7	6.3
18	12	10	4.8	28	74	339	238	107	21	12	8.3	6.4
19	13	10	4.6	25	68	369	144	106	23	12	8.2	7.3
20	12	10	4.4	24	65	408	131	104	22	11	8.4	7.3
21	13	10	6.7	48	66	478	126	102	23	16	10	9.3
22	12	10	7.6	23	65	435	117	104	23	18	10	9.8
23	12	9.6	8.3	42	65	576	113	99	22	25	9.0	8.4
24	11	11	11	120	64	498	110	97	21	20	9.4	7.6
25	11	11	64	450	61	451	110	93	22	7.9	9.3	8.7
26	13	12	8.1	257	61	426	109	85	23	7.2	9.1	9.6
27	13	11	6.8	127	61	413	108	82	23	7.4	11	9.6
28	12	11	6.8	84	59	408	106	81	22	6.5	11	8.4
29	12	10	7.8	63	---	400	98	78	22	5.7	10	9.5
30	12	12	4.8	51	---	385	91	76	22	6.0	10	8.9
31	11	---	5.0	45	---	365	---	71	---	6.1	7.6	---
TOTAL	404	367.4	321.3	4999.1	2211	10816	5685	3099	1030	448.8	264.9	212.3
MEAN	13.0	12.2	10.4	161	79.0	349	189	100	34.3	14.5	8.55	7.08
MAX	22	52	64	842	470	889	349	137	95	25	11	9.8
MIN	11	7.9	2.6	4.5	32	58	91	71	21	5.7	6.4	4.8
AC-FT	801	729	637	9920	4390	21450	11280	6150	2040	890	525	421

11072100 TEMESCAL CREEK ABOVE MAIN STREET, AT CORONA, CA--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1981 - 1990, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	7.62	15.1	23.8	23.0	14.5	40.9	13.1	12.0	9.35	7.15	6.45	6.99
MAX	16.1	55.9	126	116	25.5	237	39.3	43.7	30.0	10.9	13.4	11.3
(WY)	1986	1981	1981	1981	1981	1983	1983	1983	1983	1985	1990	1985
MIN	2.36	4.67	2.53	7.01	7.42	6.26	4.02	3.77	1.12	1.20	1.79	1.09
(WY)	1985	1987	1982	1989	1982	1990	1989	1982	1982	1982	1982	1981

SUMMARY STATISTICS

WATER YEARS 1981 - 1990

ANNUAL MEAN	12.4	
HIGHEST ANNUAL MEAN	33.7	1981
LOWEST ANNUAL MEAN	6.10	1987
HIGHEST DAILY MEAN	1720	Mar 1 1983
LOWEST DAILY MEAN	.27	Sep 25 1981
ANNUAL SEVEN-DAY MINIMUM	.56	Sep 23 1981
INSTANTANEOUS PEAK FLOW	4720	Mar 1 1983
INSTANTANEOUS PEAK STAGE	11.67	Mar 1 1983
ANNUAL RUNOFF (AC-FT)	8990	
10 PERCENT EXCEEDS	27	
50 PERCENT EXCEEDS	6.1	
90 PERCENT EXCEEDS	2.7	

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	13.3	15.4	17.1	71.4	115	120	54.2	31.8	16.6	13.6	12.8	11.9
MAX	16.0	24.3	26.4	161	351	349	189	100	34.3	24.9	20.1	15.1
(WY)	1993	1994	1993	1995	1993	1995	1995	1995	1995	1993	1993	1994
MIN	9.58	6.97	10.4	13.0	37.4	29.3	2.89	3.24	7.33	3.56	6.98	7.08
(WY)	1994	1992	1995	1994	1992	1992	1991	1992	1992	1994	1994	1995

SUMMARY STATISTICS

FOR 1994 CALENDAR YEAR

FOR 1995 WATER YEAR

WATER YEARS 1991 - 1995

ANNUAL TOTAL	6885.8	29858.8	
ANNUAL MEAN	18.9	81.8	40.7
HIGHEST ANNUAL MEAN			81.8
LOWEST ANNUAL MEAN			14.2
HIGHEST DAILY MEAN	281	Mar 19	1660
LOWEST DAILY MEAN	2.1	Jul 12	.34
ANNUAL SEVEN-DAY MINIMUM	2.9	Jul 12	.89
INSTANTANEOUS PEAK FLOW			3600
INSTANTANEOUS PEAK STAGE			6.51
ANNUAL RUNOFF (AC-FT)	13660	59220	29500
10 PERCENT EXCEEDS	33	277	90
50 PERCENT EXCEEDS	12	22	14
90 PERCENT EXCEEDS	4.0	6.7	3.6

11073360 CHINO CREEK AT SCHAEFER AVENUE, NEAR CHINO, CA

LOCATION.--Lat 34°00'14", long 117°43'34", in Santa Ana del Chino Grant, San Bernardino County, Hydrologic Unit 18070203, on right bank 300 ft downstream from Schaefer Avenue, 0.8 mi downstream from San Antonio Creek, and 1.5 mi southwest of Chino.

DRAINAGE AREA.--48.9 mi².

PERIOD OF RECORD.--October 1969 to current year.

REVISED RECORDS.--WDR CA-84-1: 1983(M). WDR CA-95-1: 1992, 1993.

GAGE.--Water-stage recorder. Concrete dikes formed low-water control from October 1975 to Apr. 16, 1991. Elevation of gage is 685 ft above sea level, from topographic map.

REMARKS.--Records fair. Flow mostly regulated by San Antonio Flood-Control Reservoir, capacity, 7,700 acre-ft. Natural streamflow affected by extensive ground-water withdrawals, diversions for power, domestic use, irrigation, and return flow from irrigated areas. California Water Project reported releases of 3,150 acre-ft to the basin via San Antonio Creek from Rialto Pipeline below San Antonio Dam at a site 10 mi upstream. See schematic diagram of Santa Ana River basin.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 12,700 ft³/s, Feb. 27, 1983, gage height, 10.32 ft, from rating curve extended above 560 ft³/s on basis of slope-conveyance study; no flow May 21, June 30, July 1, Oct. 30, Nov. 3, 1977.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Jan. 25, 1969, reached a stage of 9.23 ft, present datum, discharge, 9,200 ft³/s, on basis of contracted-opening measurement at site 6.1 mi downstream.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 4,420 ft³/s, Mar. 11, gage height, 7.50 ft; minimum daily, 0.43 ft³/s, Apr. 19.

REVISIONS.--The maximum discharges for the water years 1992 and 1993 have been revised to 5,500 ft³/s, Feb. 12, 1992, gage height, 7.95 ft, and 6,890 ft³/s, Jan. 7, 1993, gage height, 8.50 ft, superseding figures published in reports for 1992 and 1993.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1991 TO SEPTEMBER 1992
DAILY MEAN VALUES
(REVISED RECORDS)

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.63	.80	2.8	1.1	.83	1.1	12	1.3	1.2	1.1	.86	.94
2	.61	.84	3.2	.98	.79	217	1.4	1.3	1.0	1.1	.72	.77
3	.65	2.0	e2.1	42	.95	13	1.3	1.2	1.0	1.2	.77	.81
4	.69	1.5	e1.5	1.4	.88	1.6	1.2	1.2	1.1	1.1	.83	.84
5	1.4	.74	e1.8	226	3.7	1.3	1.2	1.5	1.0	1.0	.86	.81
6	3.4	.72	e1.9	14	38	27	1.2	1.4	1.1	1.1	.91	.80
7	2.2	1.4	e1.5	33	75	51	1.2	1.3	1.2	2.0	.87	.73
8	.64	.80	e1.7	1.5	1.0	2.6	1.2	1.4	1.1	1.6	.79	.75
9	.69	.63	e1.3	.94	6.4	1.4	1.2	1.2	1.0	.96	.73	.85
10	.66	.84	e.94	.85	138	1.5	1.2	1.1	1.1	.91	.76	.98
11	.64	.88	e1.1	.79	284	1.3	1.2	1.3	1.2	1.4	1.2	.92
12	.94	.74	e.92	.72	624	1.4	1.1	1.4	1.1	6.4	.90	.68
13	3.6	.71	e.78	.93	99	1.3	1.0	1.2	1.2	.86	.85	.58
14	2.2	.67	e.94	1.2	2.2	1.3	1.1	1.2	.95	.83	.86	.70
15	.66	.64	e.82	.81	244	1.2	1.0	1.0	1.2	.79	.75	.85
16	.66	.63	e.72	.70	2.6	1.2	1.1	1.1	1.1	.83	.74	.67
17	.67	.63	e.98	.70	1.7	1.1	1.0	1.1	1.0	.84	.81	.67
18	.85	.91	e.90	.70	1.4	1.2	1.0	1.1	1.1	.79	.84	.66
19	.64	.91	10	.70	1.2	1.2	1.0	1.3	1.0	.73	.72	.62
20	2.1	.88	.65	.70	1.1	182	1.1	1.2	1.0	.86	.75	.60
21	2.1	.88	.57	.70	1.2	165	1.3	1.2	1.0	.78	.77	.63
22	.91	1.0	.57	.70	1.0	89	1.1	1.1	1.2	.81	.64	.77
23	.94	1.3	.57	.80	1.0	97	1.3	1.1	1.3	.79	.64	.75
24	.62	7.1	.71	.94	1.1	2.0	1.4	1.2	1.2	.79	.67	.61
25	.80	4.7	.62	.88	1.2	1.4	1.4	1.0	1.1	.79	.70	.65
26	29	2.8	.57	.88	1.2	45	1.4	1.1	1.1	.79	.73	.65
27	5.4	2.8	.95	1.0	1.1	96	1.6	1.1	1.1	.99	1.0	.67
28	1.7	3.1	.70	.97	1.2	6.2	1.2	1.3	1.2	.94	.97	.68
29	.83	5.3	284	.85	1.2	1.4	1.2	1.2	1.2	.85	.93	.68
30	.84	2.8	6.9	.79	---	1.6	1.2	1.1	1.1	.93	.70	.65
31	.83	---	1.4	.84	---	1.9	---	1.2	---	.95	.85	---
TOTAL	68.50	49.65	403.41	339.07	1536.95	1017.2	46.8	37.4	33.15	35.81	25.12	21.97
MEAN	2.21	1.65	13.0	10.9	53.0	32.8	1.56	1.21	1.10	1.16	.81	.73
MAX	29	7.1	284	226	624	217	12	1.5	1.3	6.4	1.2	.98
MIN	.61	.63	.57	.70	.79	1.1	1.0	1.0	.95	.73	.64	.58
AC-FT	136	98	800	673	3050	2020	93	74	66	71	50	44

CAL YR 1991 TOTAL 2886.63 MEAN 7.91 MAX 347 MIN .48 AC-FT 5730
WTR YR 1992 TOTAL 3615.03 MEAN 9.88 MAX 624 MIN .57 AC-FT 7170

e Estimated.

11073360 CHINO CREEK AT SCHAEFER AVENUE, NEAR CHINO, CA--Continued

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1992 TO SEPTEMBER 1993
DAILY MEAN VALUES
(REVISED RECORDS)

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.65	.73	.74	.88	2.1	67	1.3	1.4	1.0	1.1	1.1	.86
2	.63	.63	.77	92	2.1	33	1.2	1.4	1.2	1.0	.96	.80
3	.62	.63	.69	1.2	2.3	11	1.2	1.4	1.2	.97	.87	.93
4	.66	.63	3.6	1.1	1.7	15	1.2	1.5	1.0	1.2	.85	.94
5	.65	.74	.76	1.0	1.7	6.8	1.5	1.2	124	.96	.84	.78
6	.69	.73	1.1	694	1.7	12	1.7	1.2	1.6	1.1	.80	.97
7	.55	.67	870	1220	197	14	1.7	1.3	1.2	1.3	.95	1.1
8	.58	.70	1.6	50	553	11	3.1	1.2	1.2	1.0	.95	1.0
9	.67	.72	.99	4.6	32	2.8	2.0	1.3	1.4	1.1	1.1	.83
10	.57	.68	.88	56	4.0	2.8	1.8	1.3	1.2	1.3	.84	.88
11	.58	.63	4.0	2.7	2.5	2.8	1.7	1.2	1.2	1.1	.87	.95
12	.59	.77	.75	109	2.4	3.0	2.2	1.2	1.2	1.2	.86	.83
13	.59	.77	.78	232	2.4	2.9	2.3	.99	1.2	1.1	.80	1.1
14	.64	.70	.82	273	46	3.2	2.4	.88	1.2	.99	.78	.90
15	.65	.69	.82	397	2.7	2.8	2.4	1.2	1.2	.95	1.0	.84
16	.64	.63	.75	338	2.1	2.8	2.2	1.0	1.2	1.2	.84	.91
17	.66	.68	16	356	2.1	2.8	1.4	.88	1.2	1.1	1.0	.97
18	.63	.70	3.8	439	646	2.8	1.4	.88	1.2	1.2	.84	.89
19	.63	.73	.91	50	484	2.8	2.4	1.1	1.8	1.2	.83	.82
20	.71	.66	1.0	47	193	2.8	2.6	.94	1.8	.98	.77	.88
21	.77	.63	1.0	44	9.2	2.8	1.8	.88	1.5	1.0	.80	.88
22	.74	.63	.95	41	5.5	2.5	1.4	.98	1.2	1.1	.83	.80
23	41	.71	.83	41	160	2.4	1.5	1.0	1.2	1.1	.83	.82
24	22	.76	.79	39	13	2.4	1.4	1.0	1.1	1.1	.90	.96
25	.85	.83	.79	22	26	61	1.4	1.1	1.3	.98	.82	1.1
26	.79	.75	.79	2.4	65	100	1.4	1.0	1.5	1.0	.88	.74
27	.79	.70	48	2.4	64	2.4	2.2	1.2	1.4	1.1	.81	.84
28	.74	.70	90	2.4	69	17	2.7	1.0	1.3	1.1	.93	.80
29	1.9	.67	279	2.4	---	1.9	2.3	1.0	1.2	1.1	1.0	.82
30	93	.70	39	2.6	---	1.4	1.4	1.0	1.0	.93	.87	.82
31	1.4	---	1.1	16	---	1.2	---	1.0	---	.95	.90	---
TOTAL	176.57	20.90	1373.01	4579.68	2592.5	399.1	55.2	34.63	160.9	33.51	27.42	26.76
MEAN	5.70	.70	44.3	148	92.6	12.9	1.84	1.12	5.36	1.08	.88	.89
MAX	93	.83	870	1220	646	100	3.1	1.5	124	1.3	1.1	1.1
MIN	.55	.63	.69	.88	1.7	1.2	1.2	.88	1.0	.93	.77	.74
AC-FT	350	41	2720	9080	5140	792	109	69	319	66	54	53

CAL YR 1992 TOTAL 4663.95 MEAN 12.7 MAX 870 MIN .55 AC-FT 9250
 VTR YR 1993 TOTAL 9480.18 MEAN 26.0 MAX 1220 MIN .55 AC-FT 18800

11073360 CHINO CREEK AT SCHAEFER AVENUE, NEAR CHINO, CA--Continued

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	1.1	24	90	1.1	1.3	.88	2.4	1.0	1.0	1.3	1.4	1.4
2	1.3	25	87	.96	1.0	5.5	2.5	1.2	1.0	1.4	1.4	1.4
3	1.3	25	41	50	1.2	49	2.5	1.1	.97	1.3	1.5	1.6
4	18	25	.86	631	1.0	8.4	2.5	1.3	e.90	1.1	1.3	1.4
5	29	13	.87	44	.97	565	2.4	.98	e1.8	1.2	1.3	1.6
6	1.6	.87	.77	1.2	1.1	67	2.0	1.0	1.5	1.3	1.4	1.4
7	.80	14	.87	117	1.2	2.2	2.1	1.1	1.3	1.2	1.5	1.3
8	.74	26	.75	77	1.0	1.7	2.3	1.1	1.3	1.2	1.7	1.2
9	.74	12	.76	27	.97	1.5	2.2	1.1	1.4	1.1	1.6	1.3
10	.77	58	.74	814	.91	31	2.0	1.2	1.3	1.3	1.5	1.2
11	.79	.89	.64	39	.88	756	2.0	1.2	1.5	1.3	1.4	1.1
12	.84	.78	.58	67	.88	21	1.9	1.1	1.5	1.3	1.4	1.2
13	.81	.70	44	1.6	27	2.8	1.7	1.2	1.6	1.3	1.2	1.4
14	.76	.70	.93	6.1	106	2.6	1.8	1.6	1.4	1.4	1.1	1.4
15	1.9	.86	.88	4.3	1.3	3.6	1.7	1.3	7.3	1.3	1.2	1.5
16	.79	.78	.81	4.9	1.2	2.6	71	1.5	226	1.8	1.2	1.3
17	.77	1.0	.79	1.2	1.1	2.0	4.8	1.4	.82	1.4	1.3	1.4
18	.74	19	.78	.88	1.0	1.7	45	1.2	.59	1.4	1.3	1.3
19	.73	70	.79	.86	1.1	1.7	.43	.82	.89	1.4	1.2	1.3
20	.85	69	1.0	1.4	1.1	2.0	1.0	.94	.99	1.4	1.2	1.4
21	.81	70	.88	7.5	1.3	59	1.2	1.2	1.0	1.4	1.4	1.5
22	.77	73	.88	1.5	1.1	2.0	1.2	1.0	1.2	1.4	1.3	1.3
23	.82	72	.83	62	.97	211	1.3	.91	1.3	1.7	1.4	1.3
24	.83	75	28	151	.93	3.0	1.4	1.4	1.4	1.5	1.4	1.3
25	.83	57	66	186	.88	2.5	1.4	1.2	1.3	1.6	1.5	1.3
26	17	30	1.2	5.8	.88	1.9	1.8	.87	1.4	1.3	1.4	1.3
27	27	.73	.97	2.4	.88	2.5	1.2	1.1	1.4	1.3	1.3	1.3
28	24	48	1.1	2.1	.88	2.3	1.3	1.1	1.3	1.4	1.3	1.2
29	24	92	.87	2.1	---	2.6	1.1	1.3	1.2	1.5	1.3	1.2
30	24	92	.83	2.0	---	2.4	1.1	1.2	1.2	1.5	1.4	1.1
31	24	---	.88	1.4	---	2.3	---	.95	---	1.7	1.3	---
TOTAL	208.39	996.31	377.26	2314.30	160.03	1819.68	167.23	35.57	267.76	42.7	42.1	39.9
MEAN	6.72	33.2	12.2	74.7	5.72	58.7	5.57	1.15	8.93	1.38	1.36	1.33
MAX	29	92	90	814	106	756	71	1.6	226	1.8	1.7	1.6
MIN	.73	.70	.58	.86	.88	.88	.43	.82	.59	1.1	1.1	1.1
AC-FT	413	1980	748	4590	317	3610	332	71	531	85	84	79

e Estimated.

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1970 - 1995, BY WATER YEAR (WY)

MEAN	13.7	16.9	29.3	35.6	36.6	33.5	7.67	6.87	15.8	16.5	12.1	9.59
MAX	126	113	189	186	193	257	68.6	90.4	184	176	191	96.9
(WY)	1979	1976	1976	1976	1980	1978	1974	1974	1976	1974	1974	1974
MIN	.061	.23	.53	.55	.33	.30	.14	.22	.062	.069	.14	.13
(WY)	1978	1978	1970	1972	1972	1972	1977	1973	1977	1977	1976	1977

SUMMARY STATISTICS

FOR 1994 CALENDAR YEAR

FOR 1995 WATER YEAR

WATER YEARS 1970 - 1995

ANNUAL TOTAL	3016.80	6471.23	
ANNUAL MEAN	8.27	17.7	19.4
HIGHEST ANNUAL MEAN			92.4
LOWEST ANNUAL MEAN			3.24
HIGHEST DAILY MEAN	230	814	2060
LOWEST DAILY MEAN	.46	.43	.00
ANNUAL SEVEN-DAY MINIMUM	.59	.73	.02
INSTANTANEOUS PEAK FLOW		4420	12700
INSTANTANEOUS PEAK STAGE		7.50	10.32
ANNUAL RUNOFF (AC-FT)	5980	12840	14090
10 PERCENT EXCEEDS	24	40	66
50 PERCENT EXCEEDS	.90	1.3	1.0
90 PERCENT EXCEEDS	.73	.83	.30

11073495 CUCAMONGA CREEK NEAR MIRA LOMA, CA

LOCATION.--Lat 33°58'58", long 117°35'55", in SW 1/4 NE 1/4 sec.22, T.2 S., R.7 W., San Bernardino County, Hydrologic Unit 18070203, on right bank 300 ft upstream from Merrill Avenue Bridge and 4.6 mi west of Mira Loma.

DRAINAGE AREA.--75.8 mi².

PERIOD OF RECORD.--January 1968 to July 1977, January 1979 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 660 ft above sea level, from topographic map. Prior to July 1977 at site 100 ft downstream at different datum.

REMARKS.--Records fair except for estimated daily discharges, which are poor. Channel is a trapezoidal concrete floodway; records for low and medium flows prior to July 31, 1977, are not equivalent (channel concrete lined since July 31, 1977). Chino Basin Municipal Water District Tertiary Plant No. 1 began discharging effluent 1.5 mi upstream from station on May 8, 1985. See schematic diagram of Santa Ana River basin.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 16,100 ft³/s, Feb. 27, 1983, gage height, 7.85 ft, from floodmark, on basis of slope-conveyance study of peak flow; prior to operation of Plant No. 1, no flow for most of some years; minimum daily, since 1985, 2.5 ft³/s, June 6, 1987.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 7,210 ft³/s, Jan. 10, gage height, 4.73 ft; minimum daily, 16 ft³/s, Jan. 22, July 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	28	39	37	e45	25	43	42	42	22	22	25	22
2	29	47	38	e41	27	56	44	24	22	23	21	22
3	33	42	38	142	26	163	43	20	25	20	24	20
4	154	40	38	904	26	92	46	18	27	21	24	20
5	153	42	39	205	29	1270	44	18	28	20	21	27
6	28	43	38	82	30	433	48	20	27	20	23	26
7	32	48	37	233	31	104	37	17	27	20	25	24
8	35	44	42	274	30	61	31	19	27	20	25	23
9	32	39	35	135	26	45	32	17	28	20	26	23
10	35	120	34	1480	30	65	31	17	27	20	20	24
11	36	35	36	318	29	1550	32	19	29	20	22	28
12	34	37	34	227	32	160	34	21	28	20	19	26
13	34	36	75	52	199	85	35	21	24	19	19	24
14	26	40	37	55	584	61	37	24	29	16	20	24
15	39	35	33	49	155	58	39	21	28	17	21	22
16	35	38	34	27	55	61	252	24	445	18	18	21
17	41	37	35	23	33	61	85	28	41	19	18	24
18	35	37	37	18	32	56	77	26	22	22	19	26
19	35	41	38	17	34	53	65	26	23	21	18	22
20	40	44	38	18	41	51	62	27	26	23	21	24
21	33	52	40	25	45	367	68	26	23	23	22	28
22	32	47	40	16	45	245	60	27	26	21	20	28
23	37	50	41	77	40	522	59	30	25	23	20	27
24	41	62	69	240	40	98	61	27	24	21	21	29
25	43	50	281	314	43	65	50	31	24	24	21	31
26	36	119	e70	74	45	61	45	32	23	21	20	30
27	44	41	e54	37	48	58	42	24	19	21	20	26
28	44	49	e60	32	47	52	44	23	22	21	24	25
29	42	41	e53	28	---	51	43	24	22	24	22	22
30	47	45	e50	26	---	49	37	26	21	22	24	22
31	62	---	e47	29	---	44	---	23	---	24	20	---
TOTAL	1375	1440	1578	5243	1827	6140	1625	742	1184	646	663	740
MEAN	44.4	48.0	50.9	169	65.2	198	54.2	23.9	39.5	20.8	21.4	24.7
MAX	154	120	281	1480	584	1550	252	42	445	24	26	31
MIN	26	35	33	16	25	43	31	17	19	16	18	20
AC-FT	2730	2860	3130	10400	3620	12180	3220	1470	2350	1280	1320	1470

e Estimated.

11073495 CUCAMONGA CREEK NEAR MIRA LOMA, CA--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1968 - 1977, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	.021	1.15	1.55	18.2	4.65	1.91	1.35	.065	.001	.000	.000	.11
MAX	.19	6.07	7.91	149	30.7	7.94	13.1	.54	.007	.000	.000	1.03
(WY)	1972	1971	1972	1969	1969	1969	1969	1977	1969	1968	1968	1976
MIN	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
(WY)	1969	1969	1970	1975	1972	1972	1968	1968	1968	1968	1968	1968

SUMMARY STATISTICS

WATER YEARS 1968 - 1977

ANNUAL TOTAL	
ANNUAL MEAN	2.73
HIGHEST ANNUAL MEAN	16.8
LOWEST ANNUAL MEAN	.16
HIGHEST DAILY MEAN	2600
LOWEST DAILY MEAN	.00
ANNUAL SEVEN-DAY MINIMUM	.00
INSTANTANEOUS PEAK FLOW	9100
INSTANTANEOUS PEAK STAGE	7.08
ANNUAL RUNOFF (AC-FT)	1980
10 PERCENT EXCEEDS	.10
50 PERCENT EXCEEDS	.00
90 PERCENT EXCEEDS	.00

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1979 - 1984, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	3.49	11.3	7.69	34.1	65.0	46.3	12.1	3.43	.48	.37	1.47	1.08
MAX	11.1	27.9	24.7	149	216	205	63.4	19.8	2.30	1.22	6.99	3.45
(WY)	1984	1983	1984	1983	1980	1983	1983	1983	1983	1983	1983	1983
MIN	.091	.002	.006	1.67	1.29	2.44	.056	.063	.008	.019	.009	.011
(WY)	1981	1980	1980	1984	1984	1984	1981	1979	1979	1981	1979	1979

SUMMARY STATISTICS

WATER YEARS 1979 - 1984

ANNUAL TOTAL	
ANNUAL MEAN	17.5
HIGHEST ANNUAL MEAN	53.4
LOWEST ANNUAL MEAN	1.51
HIGHEST DAILY MEAN	2530
LOWEST DAILY MEAN	.00
ANNUAL SEVEN-DAY MINIMUM	.00
INSTANTANEOUS PEAK FLOW	16100
INSTANTANEOUS PEAK STAGE	7.85
ANNUAL RUNOFF (AC-FT)	12700
10 PERCENT EXCEEDS	10
50 PERCENT EXCEEDS	.13
90 PERCENT EXCEEDS	.01

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	36.2	34.9	42.8	80.9	75.2	69.4	33.0	26.7	30.4	27.2	28.1	34.7
MAX	52.9	55.1	83.0	265	197	198	54.2	44.9	57.1	46.2	51.8	52.0
(WY)	1988	1986	1993	1993	1993	1995	1995	1992	1992	1992	1992	1986
MIN	20.4	23.4	21.0	26.1	34.9	25.3	20.5	18.5	18.1	19.3	18.5	16.4
(WY)	1987	1989	1987	1989	1989	1988	1987	1988	1988	1987	1987	1988

SUMMARY STATISTICS

FOR 1994 CALENDAR YEAR

FOR 1995 WATER YEAR

WATER YEARS 1986 - 1995

ANNUAL TOTAL	14798	23203	
ANNUAL MEAN	40.5	63.6	43.2
HIGHEST ANNUAL MEAN			71.4
LOWEST ANNUAL MEAN			26.6
HIGHEST DAILY MEAN	294	Feb 7	2130
LOWEST DAILY MEAN	18	Mar 18	2.5
ANNUAL SEVEN-DAY MINIMUM	21	Apr 30	12
INSTANTANEOUS PEAK FLOW			10400
INSTANTANEOUS PEAK STAGE			5.40
ANNUAL RUNOFF (AC-FT)	29350	46020	31270
10 PERCENT EXCEEDS	49	77	55
50 PERCENT EXCEEDS	33	32	28
90 PERCENT EXCEEDS	25	20	19

11074000 SANTA ANA RIVER BELOW PRADO DAM, CA

LOCATION.--Lat 33°53'00", long 117°38'40", in La Sierra Grant, Riverside County, Hydrologic Unit 18070203, on left bank of outlet channel, 2,500 ft downstream from axis of Prado Dam, and 4.5 mi west of Corona.

RAINAGE AREA.--1,490 mi², excludes 768 mi² above Lake Elsinore.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--May 1930 to November 1939 (irrigation seasons only), March 1940 to current year. Published as "at Santa Fe Railroad Bridge, near Prado" May 1930 to November 1931, as "at Atchison, Topeka, and Santa Fe Railroad Bridge, near Prado" May 1932 to November 1939, and as "below Prado Dam, near Prado" March 1940 to September 1950.

AGE.--Water-stage recorder and concrete control since August 1944. Datum of gage is approximately 449 ft above sea level (levels by U.S. Army Corps of Engineers). Prior to Mar. 18, 1940, at about same site at various datums.

REMARKS.--No estimated daily discharge. Records good. Flow regulated since 1940 by Prado flood-control reservoir, capacity, 196,200 acre-ft. Natural streamflow affected by extensive ground-water withdrawals, diversion for irrigation, and return flow from irrigated areas. During the current year, the California Water Project released 3,150 acre-ft to the basin. See schematic diagram of Santa Ana River basin.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 7,440 ft³/s, Feb. 21, 1980, gage height, 6.88 ft; minimum daily, 2.4 ft³/s, July 29 to Aug. 3, Sept. 20, 1978 (result of gate closure).

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Mar. 2, 1938, reached a discharge of 100,000 ft³/s, on basis of slope-area measurement of peak flow at site 2.5 mi downstream.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 6,260 ft³/s, Mar. 6, gage height, 6.80 ft; minimum daily, 128 ft³/s, Sept. 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	139	205	280	246	442	433	1090	433	462	442	148	133
2	141	207	270	224	442	430	1070	455	461	431	134	136
3	140	207	279	233	436	301	499	497	459	439	135	137
4	142	203	215	325	433	226	251	551	455	446	138	128
5	141	202	206	2080	431	456	452	513	458	427	136	137
6	145	180	202	2500	427	5360	659	453	461	454	135	138
7	182	179	201	2450	423	5490	692	540	465	448	139	136
8	197	197	190	2480	419	5690	651	604	470	441	143	136
9	190	165	183	3170	413	3780	648	584	466	432	156	138
10	181	160	181	3390	409	1960	644	485	464	452	150	143
11	191	226	186	5000	396	4710	598	340	463	463	138	143
12	186	227	187	5190	387	5210	544	389	462	462	136	144
13	163	227	237	4950	287	3790	523	446	424	458	139	145
14	164	223	204	3140	230	1550	524	447	434	450	140	148
15	187	221	187	735	1630	1550	525	429	456	441	142	143
16	183	213	184	434	3640	1540	1060	395	455	437	141	142
17	183	219	189	335	1460	1000	1600	380	461	450	142	143
18	179	216	191	409	448	852	874	369	457	453	140	148
19	181	216	189	457	429	858	601	370	457	449	146	150
20	192	247	190	621	419	1350	600	373	458	454	145	150
21	182	257	189	346	425	2250	598	374	457	448	149	152
22	172	261	189	346	422	2660	593	373	457	435	146	153
23	173	261	191	345	425	3660	588	419	457	417	144	154
24	174	263	202	1030	427	2180	472	449	457	416	143	159
25	178	265	266	2390	435	404	395	451	457	384	139	166
26	181	266	291	3410	431	774	387	453	457	367	133	162
27	208	251	291	1660	436	1100	396	454	455	172	131	161
28	207	232	286	657	434	1150	402	452	453	153	133	162
29	208	268	280	651	---	808	407	450	453	152	130	153
30	212	278	273	515	---	595	409	455	449	153	132	150
31	213	---	262	433	---	797	---	458	---	149	132	---
TOTAL	5515	6742	6871	50152	17036	62914	18752	13841	13700	12175	4335	4390
EAN	178	225	222	1618	608	2029	625	446	457	393	140	146
AX	213	278	291	5190	3640	5690	1600	604	470	463	156	166
IN	139	160	181	224	230	226	251	340	424	149	130	128
C-FT	10940	13370	13630	99480	33790	124800	37190	27450	27170	24150	8600	8710

SANTA ANA RIVER BASIN

11074000 SANTA ANA RIVER BELOW PRADO DAM, CA--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1941 - 1995, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	96.4	124	190	308	354	389	235	156	131	105	84.1	78.7
MAX	344	312	709	3543	2681	2556	1101	843	736	393	352	187
(WY)	1984	1966	1967	1993	1980	1980	1980	1983	1983	1995	1983	1983
MIN	22.4	33.5	39.5	49.2	49.7	54.3	43.3	35.2	29.0	17.7	14.8	16.2
(WY)	1962	1963	1963	1963	1961	1961	1961	1961	1961	1960	1960	1960

SUMMARY STATISTICS

FOR 1994 CALENDAR YEAR

FOR 1995 WATER YEAR

WATER YEARS 1941 - 1995

ANNUAL TOTAL	81390	216423	
ANNUAL MEAN	223	593	
HIGHEST ANNUAL MEAN			187
LOWEST ANNUAL MEAN			789
HIGHEST DAILY MEAN	1120	Feb 9	36.4
LOWEST DAILY MEAN	96	Apr 23	6440
ANNUAL SEVEN-DAY MINIMUM	109	Aug 13	2.4
INSTANTANEOUS PEAK FLOW			3.0
INSTANTANEOUS PEAK STAGE			7440
ANNUAL RUNOFF (AC-FT)	161400	429300	7.29
10 PERCENT EXCEEDS	386	1080	135400
50 PERCENT EXCEEDS	187	389	316
90 PERCENT EXCEEDS	122	143	106
			37

11074000 SANTA ANA RIVER BELOW PRADO DAM, CA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1967 to current year.

CHEMICAL DATA: Water years 1967 to current year.

BIOLOGICAL DATA: Water years 1975-81.

SPECIFIC CONDUCTANCE: Water years 1970 to current year.

WATER TEMPERATURE: Water years 1970 to current year.

SEDIMENT DATA: Water years 1974-94.

PERIOD OF DAILY RECORD.--

CHLORIDE: October 1970 to September 1971.

SPECIFIC CONDUCTANCE: October 1969 to current year.

WATER TEMPERATURE: October 1969 to current year.

SUSPENDED-SEDIMENT DISCHARGE: October 1973 to June 1982.

INSTRUMENTATION.--Water-quality monitor recording specific conductance and water temperature since October 1969.

REMARKS.--Interruptions in record were due to malfunction of the recording instruments. Specific-conductance and water-temperature values are affected by releases from Prado Dam.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum recorded, 1,830 microsiemens, Apr. 30, 1971; minimum recorded, 220 microsiemens, Feb. 20, 1978.

WATER TEMPERATURE: Maximum recorded, 36.0°C, Sept. 4, 1972, Sept. 8, 1984; minimum recorded, 2.5°C, Dec. 30, 1969.

SEDIMENT CONCENTRATION: Maximum daily mean, 2,870 mg/L, Mar. 5, 1978; minimum daily mean, 3 mg/L, Apr. 2, 1980, and several days during 1982.

SEDIMENT LOAD: Maximum daily, 18,900 tons, Mar. 5, 1978; minimum daily, 0.58 ton, Sept. 20, 1978.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum recorded, 1,300 microsiemens, Feb. 14; minimum recorded, 349 microsiemens, Feb. 14, Mar. 9.

WATER TEMPERATURE: Maximum recorded, 29.0°C, July 27; minimum recorded, 9.5°C, Dec. 9.

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)	TEMPER- ATURE WATER (DEG C)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)
OCT					
04...	1200	152	1010	20.0	598
27...	1540	187	960	19.5	600
NOV					
10...	1045	110	990	15.5	608
22...	1450	263	900	12.5	552
DEC					
15...	1515	182	1020	13.0	632
29...	1500	280	995	13.5	622
JAN					
18...	0920	336	770	12.5	470
FEB					
01...	1535	443	850	14.0	510
16...	1500	4510	542	14.5	332
MAR					
08...	1115	5730	364	15.0	226
23...	1030	2520	682	16.5	410
APR					
11...	1330	577	885	17.0	546
20...	1400	598	834	15.0	512
MAY					
03...	1250	466	859	17.5	528
23...	1215	452	866	18.5	510
JUN					
06...	0815	462	895	19.0	546
19...	1340	457	807	20.0	486
JUL					
06...	1145	452	868	22.5	524
18...	1530	448	931	24.0	578
AUG					
02...	0900	131	1020	23.5	642
23...	1150	148	1010	24.5	622
SEP					
07...	1000	138	1000	23.5	604
21...	1330	152	981	23.0	604

SANTA ANA RIVER BASIN

11074000 SANTA ANA RIVER BELOW PRADO DAM, CA--Continued

SPECIFIC CONDUCTANCE, MICROSIEMENS/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	922	840	1030	959	995	910	1010	985	912	815	1130	991
2	905	823	1010	973	990	940	1020	985	959	895	1110	1050
3	949	886	1010	971	970	940	1010	809	1020	921	1250	1100
4	1020	520	984	946	1030	970	950	540	1060	1010	1220	1100
5	960	570	979	940	1020	1010	540	370	1060	992	1110	842
6	880	610	1020	961	1020	1010	590	450	1060	992	842	417
7	950	820	998	969	1020	1010	870	580	1090	1010	417	360
8	1000	890	982	943	1030	1010	870	610	1120	1040	423	352
9	1010	920	996	927	1050	1020	630	520	1200	1100	435	349
10	1020	960	1000	510	1050	1030	850	510	1200	1140	455	362
11	1020	970	800	530	1030	1020	620	390	1250	1190	566	384
12	1060	1000	920	800	1030	1020	450	370	1250	1210	566	383
13	1060	980	930	890	1030	880	450	380	1280	1240	408	360
14	1010	960	920	870	1010	910	510	450	1300	349	424	369
15	980	910	940	890	1020	1010	550	510	487	350	477	389
16	980	930	970	890	1060	1020	760	550	573	468	499	365
17	960	850	940	900	1080	1030	780	720	554	455	537	375
18	980	920	940	910	1110	1050	824	761	593	491	549	393
19	950	900	943	862	1120	1080	952	798	695	573	580	466
20	920	880	940	920	1100	1040	1040	818	732	630	714	538
21	920	880	920	900	1090	1020	1100	952	692	606	728	612
22	950	900	900	870	1090	1060	1010	918	891	647	697	625
23	1000	929	890	870	1110	1030	1010	919	935	812	682	590
24	973	902	900	870	1040	896	971	725	1010	826	708	549
25	980	930	910	860	959	546	776	484	991	872	865	686
26	1040	940	940	580	683	585	491	378	1050	875	882	670
27	1010	960	1000	720	852	683	590	453	1030	921	758	626
28	1000	905	1060	950	932	852	638	571	1100	896	704	633
29	1070	960	1080	826	995	915	723	629	---	---	821	671
30	1020	960	1180	990	975	905	826	668	---	---	837	677
31	1010	959	---	---	985	955	887	783	---	---	845	672
MONTH	1070	520	1180	510	1120	546	1100	370	1300	349	1250	349
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	759	669	817	717	866	767	1020	832	---	---	1070	930
2	745	625	848	727	883	793	1050	832	---	---	1080	956
3	862	625	871	799	882	771	1040	887	---	---	1090	940
4	909	808	867	802	948	839	992	861	---	---	1150	943
5	908	724	901	833	956	867	995	855	---	---	1150	978
6	814	671	927	809	966	885	1010	796	---	---	1140	1000
7	749	671	944	861	948	849	894	761	---	---	1110	971
8	766	654	971	897	890	840	891	761	---	---	1000	961
9	801	724	999	914	923	852	883	736	---	---	1010	963
10	908	660	1020	911	936	854	919	770	1060	870	1020	956
11	925	767	1010	899	928	837	984	806	1070	890	999	968
12	980	867	1020	877	910	850	948	770	---	---	1000	960
13	1050	855	915	821	942	824	964	786	---	---	994	963
14	1040	910	867	762	905	824	970	751	---	---	986	955
15	993	900	916	763	947	798	---	---	---	---	998	957
16	977	778	954	870	939	849	---	---	---	---	1000	959
17	962	778	988	915	992	881	---	---	---	---	993	953
18	896	824	976	892	933	785	---	---	---	---	1020	943
19	1010	887	1000	913	866	766	---	---	---	---	1040	955
20	921	794	957	890	891	741	---	---	---	---	1010	968
21	875	785	926	862	874	705	---	---	---	---	991	953
22	926	796	919	841	857	699	---	---	---	---	986	943
23	857	798	975	854	790	709	---	---	---	---	999	957
24	848	788	975	864	816	713	---	---	---	---	1000	960
25	809	740	951	891	828	737	---	---	---	---	987	954
26	771	701	979	900	921	781	---	---	---	---	1000	958
27	742	682	957	897	956	804	---	---	---	---	1000	952
28	723	683	935	814	1010	828	---	---	---	---	989	957
29	735	694	883	812	984	861	---	---	---	---	1000	970
30	756	705	900	780	978	875	---	---	---	---	1010	953
31	---	---	918	777	---	---	---	---	---	---	---	---
MONTH	1050	625	1020	717	1010	699	---	---	---	---	1150	930

11074000 SANTA ANA RIVER BELOW PRADO DAM, 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	22.5	20.0	19.0	16.5	13.5	11.0	14.0	12.0	14.0	13.0	15.5	15.5
2	22.5	20.5	18.0	16.5	13.5	11.0	14.0	11.5	14.0	13.5	15.5	15.5
3	21.5	20.5	17.0	15.5	13.0	11.5	14.0	12.5	14.5	13.5	15.5	15.5
4	21.0	20.0	16.0	14.0	14.0	12.0	12.5	10.5	15.0	14.0	15.5	15.5
5	20.0	19.5	16.0	14.0	15.5	13.5	11.0	10.5	15.5	14.5	15.5	15.5
6	19.5	19.0	16.5	14.0	15.0	14.0	11.0	11.0	15.5	15.0	16.0	14.5
7	20.0	19.5	16.0	14.0	15.0	14.0	11.5	11.0	15.5	15.0	15.0	14.5
8	20.5	19.5	16.5	15.5	14.0	11.5	12.0	11.5	16.0	15.5	15.5	15.0
9	20.5	20.0	16.5	14.5	12.5	9.5	12.5	12.0	15.5	15.0	15.0	14.0
10	21.0	20.5	16.5	14.5	12.5	10.5	13.5	12.5	15.5	15.0	14.5	14.5
11	21.5	20.0	14.5	13.5	12.5	10.0	13.0	12.5	15.5	15.0	15.0	14.5
12	21.5	19.5	14.0	13.5	14.0	12.0	13.0	12.5	15.5	14.5	15.0	14.0
13	21.0	19.5	14.0	13.5	14.0	12.5	12.5	12.5	15.0	14.5	14.0	13.5
14	20.0	18.0	14.0	13.5	14.0	12.0	13.0	12.5	15.0	14.5	14.0	13.5
15	20.5	19.0	13.5	13.5	13.5	11.5	13.0	13.0	14.5	14.0	14.0	13.5
16	19.5	17.0	14.5	13.5	14.0	11.5	13.5	12.5	15.0	14.0	14.5	13.5
17	19.5	16.5	14.0	12.5	14.5	11.5	12.5	12.0	14.5	14.0	14.5	14.0
18	19.0	16.5	14.0	13.0	14.0	11.5	13.0	11.5	15.0	14.0	14.5	14.5
19	19.0	16.5	13.0	11.0	14.0	11.5	12.0	11.5	15.5	14.5	15.0	14.5
20	19.5	16.5	13.0	10.5	14.0	11.5	12.0	12.0	15.0	14.5	15.5	15.0
21	19.5	16.5	13.0	11.0	14.0	11.5	12.5	12.0	15.0	14.5	16.5	15.5
22	19.5	17.0	13.0	11.5	14.0	13.0	12.5	12.0	15.5	15.0	16.5	16.5
23	19.5	17.0	13.5	12.0	15.5	13.5	12.5	12.0	15.5	15.0	16.5	16.0
24	20.0	18.0	14.0	12.0	15.5	15.0	13.0	12.5	15.5	15.0	16.0	15.0
25	19.5	17.5	14.0	12.0	15.0	13.0	14.0	12.5	15.5	15.0	15.0	14.5
26	20.0	18.5	13.5	13.0	13.5	12.5	13.0	12.5	16.0	15.0	15.0	14.5
27	20.0	17.5	13.0	11.0	13.5	13.0	12.5	12.5	15.5	15.5	15.0	14.5
28	20.0	18.0	13.5	11.0	13.5	13.0	13.0	12.5	16.0	15.5	15.0	14.0
29	19.5	18.0	13.5	11.0	13.5	13.0	13.5	12.5	---	---	14.5	14.5
30	19.0	17.5	14.0	11.5	13.0	12.0	13.5	13.0	---	---	15.0	14.5
31	19.0	16.5	---	---	13.0	12.0	14.0	13.5	---	---	15.0	14.5
MONTH	22.5	16.5	19.0	10.5	15.5	9.5	14.0	10.5	16.0	13.0	16.5	13.5
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	15.0	15.0	17.0	16.0	18.5	18.5	21.5	21.0	26.5	23.5	26.0	23.5
2	15.5	15.0	17.0	16.5	19.0	18.5	22.0	21.5	26.5	23.5	26.6	24.2
3	15.5	15.0	17.5	17.0	19.0	19.0	22.0	21.5	26.5	23.5	26.5	24.0
4	15.5	15.0	17.5	17.0	19.5	19.0	22.0	21.5	26.0	23.5	26.0	23.5
5	16.0	15.0	17.5	17.0	19.5	19.0	22.0	21.5	26.0	23.0	25.5	23.0
6	16.0	15.5	17.5	17.0	19.0	19.0	22.0	21.5	26.0	23.0	25.5	23.0
7	16.0	15.5	18.0	17.5	19.5	19.0	22.5	21.5	26.0	23.0	26.5	23.0
8	16.5	16.0	18.0	18.0	19.5	19.0	22.5	22.0	26.5	23.5	26.0	23.0
9	16.5	16.0	18.0	17.5	19.5	19.5	23.0	22.5	27.0	24.0	25.0	22.0
10	17.0	16.5	18.0	17.5	19.5	19.5	23.0	22.5	26.0	23.5	24.5	21.5
11	17.0	16.0	18.0	17.5	20.0	19.5	23.5	23.0	26.0	23.0	24.5	21.5
12	17.0	16.5	18.0	17.5	20.0	19.5	24.5	23.0	26.0	23.5	25.0	21.5
13	17.0	16.0	18.0	17.5	20.0	19.5	25.5	23.0	26.0	23.5	25.5	22.5
14	17.0	16.5	18.0	17.5	20.0	19.5	26.0	23.0	26.0	23.0	25.5	22.5
15	17.0	16.5	18.0	18.0	21.5	20.0	24.5	23.0	25.5	23.0	26.0	22.5
16	16.5	16.5	18.0	17.5	20.0	20.0	24.5	23.5	25.0	23.0	25.5	23.5
17	16.5	16.0	18.5	18.0	20.5	20.0	24.5	23.5	25.5	22.5	25.0	22.5
18	16.0	15.5	18.5	18.0	20.0	19.5	25.5	23.5	26.0	22.5	24.0	22.0
19	15.5	15.0	18.5	18.0	20.0	18.5	24.0	23.5	26.0	23.0	24.0	21.5
20	15.0	14.5	18.5	18.0	19.5	18.5	24.0	23.5	26.0	23.5	24.5	22.0
21	15.0	14.5	18.5	18.0	19.5	19.0	24.0	23.5	26.5	24.0	23.5	21.0
22	15.5	14.5	18.5	18.0	19.5	19.0	24.0	23.5	26.5	24.0	24.0	21.0
23	15.5	15.0	18.5	17.5	20.0	19.5	24.0	23.5	26.0	23.5	23.5	21.0
24	15.5	15.0	18.0	17.5	20.0	19.5	24.0	23.5	26.0	23.0	24.0	21.0
25	15.5	15.0	18.5	18.0	20.5	19.5	24.5	22.0	25.5	23.0	23.5	21.0
26	15.5	15.5	18.5	18.0	20.5	20.0	25.5	24.0	25.0	22.0	23.0	21.5
27	16.0	15.5	18.5	18.0	21.0	20.5	29.0	23.5	25.5	19.5	23.0	20.5
28	16.0	15.5	18.5	18.0	21.0	20.5	28.0	23.5	25.5	20.0	22.0	20.5
29	16.5	15.5	18.5	18.0	21.5	21.0	27.0	24.5	26.0	23.0	22.5	20.0
30	16.5	16.0	18.5	18.0	21.5	21.0	27.0	24.0	26.0	23.0	22.5	19.5
31	---	---	19.0	18.5	---	---	28.5	23.5	26.0	23.0	---	---
MONTH	17.0	14.5	19.0	16.0	21.5	18.5	29.0	21.0	27.0	19.5	26.6	19.5

SANTA ANA RIVER BASIN

11075720 CARBON CREEK BELOW CARBON CANYON DAM, CA

LOCATION.--Lat 33°54'48", long 117°50'30", in SW 1/4 NE 1/4 sec.17, T.3 S., R.9 W., Orange County, Hydrologic Unit 18070106, on right wall of outlet channel 250 ft downstream from toe of Carbon Canyon Dam and 2.4 mi northwest of Yorba Linda.

DRAINAGE AREA.--19.5 mi².

PERIOD OF RECORD.--October 1961 to current year.

REVISED RECORDS.--WDR CA-88-1: 1983(M).

GAGE.--Water-stage recorder. Datum of gage is 396.35 ft, U.S. Army Corps of Engineers datum. Prior to Dec. 3, 1971, at datum 2.00 ft higher.

REMARKS.--No estimated daily discharges. Records fair except for discharges below 10 ft³/s, which are poor. Flow regulated by Carbon Canyon flood-control reservoir, capacity, 6,610 acre-ft. No diversion upstream from station. See schematic diagram of Santa Ana River basin.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 796 ft³/s, Mar. 1, 1983, gage height, 5.11 ft, present datum, from rating curve extended above 110 ft³/s on basis of optical current-meter measurement at 241 ft³/s and normal depth solution for discharge computation at gage height 4.27 ft; no flow for many days each year.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 281 ft³/s, Jan. 10, gage height, 3.58 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	.00	.00	.00	.00	1.9	1.6	6.7	2.0	1.1	.71	.01	.05
2	.00	.00	.00	.00	1.5	2.3	6.8	2.0	1.1	.65	.01	.02
3	.00	.00	.00	.00	1.2	3.1	8.2	5.2	1.4	.66	.02	.00
4	.00	.00	.00	41	1.1	2.7	8.7	2.9	1.5	.60	.02	.00
5	.00	.00	.00	30	1.0	52	8.4	1.8	1.6	.59	.02	.00
6	.00	.00	.00	1.3	1.0	174	8.0	1.7	1.7	.58	.00	.01
7	.00	.00	.00	8.2	1.1	14	6.5	1.7	1.6	.60	.00	.00
8	.00	.00	.00	16	2.2	9.4	7.5	1.7	1.5	.58	.00	.00
9	.00	.00	.00	7.3	3.4	6.7	5.7	2.0	1.7	.59	.00	.00
10	.00	.01	.00	87	1.2	6.1	5.7	2.0	1.8	.66	.00	.00
11	.00	.00	.00	61	.89	176	5.4	2.0	1.5	.36	.02	.00
12	.00	.00	.00	17	.84	40	4.7	2.3	1.3	.04	.01	.00
13	.00	.00	.02	4.9	1.0	28	4.4	2.4	1.4	.14	.00	.00
14	.00	.00	.00	2.1	33	16	3.4	2.0	.83	.16	.11	.00
15	.00	.00	.00	3.1	11	10	3.4	1.8	1.6	.06	.02	.00
16	.00	.00	.00	.98	4.0	10	8.4	7.1	14	.26	.01	.00
17	.00	.00	.00	.72	2.6	12	6.0	2.9	5.6	.20	.06	.00
18	.00	.00	.00	.47	2.3	11	5.0	1.2	2.2	.15	.04	.00
19	.00	.00	.00	.47	1.9	11	16	3.9	1.5	.30	.02	.00
20	.00	.00	.00	.40	1.6	9.9	5.2	2.0	1.2	.15	.02	.00
21	.00	.00	.00	.73	1.4	30	4.7	1.6	1.1	.06	.02	.00
22	.00	.00	.00	.36	1.4	9.3	4.0	1.8	1.1	.05	.06	.00
23	.00	.00	.00	1.4	1.4	88	4.3	2.8	.96	.04	.04	.00
24	.00	.00	.01	20	1.5	15	4.1	2.3	.76	.02	.00	.00
25	.00	.00	.00	48	1.5	9.8	4.1	2.1	.73	.01	.00	.00
26	.00	.00	.00	76	1.4	8.2	3.7	1.9	.85	.00	.00	.00
27	.00	.00	.00	6.3	1.4	7.6	3.5	1.7	.83	.00	.00	.04
28	.00	.00	.00	4.1	1.5	3.8	3.6	1.6	.79	.00	.00	.01
29	.00	.00	.00	3.6	---	1.1	3.8	1.3	.72	.00	.02	.04
30	.00	.01	.00	2.6	---	18	3.0	2.3	.78	.00	.00	.12
31	.00	---	.00	2.1	---	6.8	---	1.3	---	.03	.01	---
TOTAL	0.00	0.02	0.03	447.13	86.23	793.4	172.9	71.3	54.75	8.25	0.54	0.29
MEAN	.000	.001	.001	14.4	3.08	25.6	5.76	2.30	1.82	.27	.017	.010
MAX	.00	.01	.02	87	33	176	16	7.1	14	.71	.11	.12
MIN	.00	.00	.00	.00	.84	1.1	3.0	1.2	.72	.00	.00	.00
AC-FT	.00	.04	.06	887	171	1570	343	141	109	16	1.1	.6

11075720 CARBON CREEK BELOW CARBON CANYON DAM, 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	.037	.17	.47	2.64	4.73	5.03	.66	.23	.11	.050	.019	.013
MAX	.61	1.87	6.36	32.4	46.9	36.2	5.76	3.44	1.82	.67	.29	.22
(WY)	1964	1968	1967	1993	1980	1983	1995	1980	1995	1983	1983	1976
MIN	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
(WY)	1962	1962	1963	1963	1964	1962	1962	1962	1962	1962	1962	1962

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1962 - 1995	
ANNUAL TOTAL	19.32		1634.84			
ANNUAL MEAN	.053		4.48		1.16	
HIGHEST ANNUAL MEAN					7.27	1980
LOWEST ANNUAL MEAN					.004	1972
HIGHEST DAILY MEAN	5.0	Feb 8	176	Mar 11	322	Mar 2 1983
LOWEST DAILY MEAN	.00	Jan 1	.00	Oct 1	.00	Oct 1 1961
ANNUAL SEVEN-DAY MINIMUM	.00	Jan 1	.00	Oct 1	.00	Oct 1 1961
INSTANTANEOUS PEAK FLOW			281	Jan 10	796	Mar 1 1983
INSTANTANEOUS PEAK STAGE			3.58	Jan 10	5.11	Mar 1 1983
ANNUAL RUNOFF (AC-FT)	38		3240		844	
10 PERCENT EXCEEDS	.00		8.3		.40	
50 PERCENT EXCEEDS	.00		.58		.00	
90 PERCENT EXCEEDS	.00		.00		.00	

SANTA ANA RIVER BASIN

11075800 SANTIAGO CREEK AT MODJESKA, CA

LOCATION.--Lat 33°42'46", long 117°38'39", in NE 1/4 NE 1/4 sec.30, T.5 S., R.7 W., Orange County, Hydrologic Unit 18070203, on right bank at Santiago Canyon Road Bridge, 0.9 mi northwest of Modjeska, 1.0 mi downstream from Harding Creek, and 1.5 mi downstream from Modjeska Reservoir.

DRAINAGE AREA.--13.0 mi².

PERIOD OF RECORD.--October 1961 to current year.

REVISED RECORDS.--WDR CA-73-1: 1969. WDR CA-86-1: Drainage area.

GAGE.--Water-stage recorder. Elevation of gage is 1,210 ft above sea level, from topographic map. Prior to Sept. 10, 1969, at site 0.6 mi upstream at datum approximately 48 ft higher. Sept. 10, 1969, to Feb. 6, 1985, at site 0.6 mi upstream at datum approximately 44 ft higher.

REMARKS.--Records fair except for estimated daily discharges, which are poor. Slight regulation by Modjeska Reservoir on Harding Creek. Santiago County Water District diverts water at Modjeska Reservoir on Harding Creek. See schematic diagram of Santa Ana River basin.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 6,520 ft³/s, Feb. 25, 1969, gage height, 6.18 ft, site and datum then in use, from rating curve extended above 840 ft³/s on basis of slope-area measurement of peak flow; no flow at times in most years.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 100 ft³/s and maximum (*), from rating curve extended above 870 ft³/s, on basis of slope-area measurement of peak flow:

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Jan. 4	2000	188	6.46	Mar. 5	1815	*2,400	*11.34
Jan. 10	1745	2,250	9.56	Mar. 11	0730	824	7.67
Jan. 25	1815	122	7.09	Mar. 23	Unknown	Unknown	Unknown
Feb. 14	1700	659	8.66				

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	22	17	e39	8.4	2.9	.59	.00	.00
2	.00	.00	.00	.00	19	17	e35	8.2	3.3	.33	.00	.00
3	.00	.00	.00	.00	16	20	e31	7.6	3.2	.17	.00	.00
4	.00	.00	.00	33	14	22	e27	7.2	3.2	.24	.00	.00
5	.00	.00	.00	35	12	e640	e25	7.2	2.8	.06	.00	.00
6	.00	.00	.00	5.1	11	e380	e23	8.0	2.4	.00	.00	.00
7	.00	.00	.00	38	10	e230	e20	7.2	2.2	.00	.00	.00
8	.00	.00	.00	153	10	e140	e19	7.0	2.1	.00	.00	.00
9	.00	.00	.00	72	9.2	107	e18	6.7	2.0	.00	.00	.00
10	.00	.00	.00	533	8.6	99	e17	6.3	1.9	.00	.00	.00
11	.00	.00	.00	459	8.2	391	16	6.1	2.0	.00	.00	.00
12	.00	.00	.00	108	7.8	182	15	5.9	1.8	.00	.00	.00
13	.00	.00	.00	63	10	140	14	5.9	1.4	.00	.00	.00
14	.00	.00	.00	44	303	e130	14	5.9	1.4	.00	.00	.00
15	.00	.00	.00	35	194	e119	14	5.7	2.0	.00	.00	.00
16	.00	.00	.00	26	86	e103	18	5.0	7.9	.00	.00	.00
17	.00	.00	.00	21	63	e96	15	4.9	7.2	.00	.00	.00
18	.00	.00	.00	18	52	e90	16	4.5	3.3	.00	.00	.00
19	.00	.00	.00	16	47	e87	15	4.4	2.4	.00	.00	.00
20	.00	.00	.00	16	41	e82	14	4.1	2.1	.00	.00	.00
21	.00	.00	.00	15	36	e80	13	3.9	2.0	.00	.00	.00
22	.00	.00	.00	14	31	e78	12	3.8	1.8	.00	.00	.00
23	.00	.00	.00	14	27	e94	11	3.8	1.5	.00	.00	.00
24	.00	.00	.00	19	24	e86	10	4.0	1.2	.00	.00	.00
25	.00	.00	.00	64	23	e79	10	3.8	1.2	.00	.00	.00
26	.00	.00	.00	77	21	e72	9.9	3.7	1.5	.00	.00	.00
27	.00	.00	.00	58	20	e64	9.6	3.6	1.6	.00	.00	.00
28	.00	.00	.00	45	18	e59	9.2	3.3	1.5	.00	.00	.00
29	.00	.00	.00	37	---	e54	9.1	2.9	1.5	.00	.00	.00
30	.00	.00	.00	31	---	e48	8.5	2.7	1.2	.00	.00	.00
31	.00	---	.00	26	---	e43	---	2.7	---	.00	.00	---
TOTAL	0.00	0.00	0.00	2075.10	1143.8	3849	507.3	164.4	72.5	1.39	0.00	0.00
MEAN	.000	.000	.000	66.9	40.8	124	16.9	5.30	2.42	.045	.000	.000
MAX	.00	.00	.00	533	303	640	39	8.4	7.9	.59	.00	.00
MIN	.00	.00	.00	.00	7.8	17	8.5	2.7	1.2	.00	.00	.00
AC-FT	.00	.00	.00	4120	2270	7630	1010	326	144	2.8	.00	.00

e Estimated.

SANTA ANA RIVER BASIN

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11075800 SANTIAGO CREEK AT MODJESKA, 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	.21	1.97	5.87	18.3	32.3	24.9	6.66	3.34	1.46	.40	.15	.081
MAX	5.00	33.4	97.4	179	376	137	33.7	27.0	7.82	2.84	1.68	1.07
(WY)	1984	1966	1967	1993	1969	1978	1983	1983	1983	1983	1983	1983
MIN	.000	.000	.000	.000	.050	.15	.017	.000	.000	.000	.000	.000
(WY)	1962	1962	1963	1963	1965	1965	1992	1992	1987	1963	1962	1962

SUMMARY STATISTICS FOR 1994 CALENDAR YEAR FOR 1995 WATER YEAR WATER YEARS 1962 - 1995

ANNUAL TOTAL	348.24	7813.49	
ANNUAL MEAN	.95	21.4	
HIGHEST ANNUAL MEAN			7.85
LOWEST ANNUAL MEAN			47.2
HIGHEST DAILY MEAN	20	Feb 21	1969
LOWEST DAILY MEAN	.00	Jan 1	1961
ANNUAL SEVEN-DAY MINIMUM	.00	Jan 1	1961
INSTANTANEOUS PEAK FLOW		2400	Mar 5
INSTANTANEOUS PEAK STAGE		11.34	Mar 5
ANNUAL RUNOFF (AC-FT)	691	15500	5690
10 PERCENT EXCEEDS	2.6	58	11
50 PERCENT EXCEEDS	.00	.06	.31
90 PERCENT EXCEEDS	.00	.00	.00

SANTA ANA RIVER BASIN

11077500 SANTIAGO CREEK AT SANTA ANA, CA

LOCATION.--Lat 33°46'13", long 117°53'01", in SW 1/4 NW 1/4 sec.1, T.5 S., R.10 W., Orange County, Hydrologic Unit 18070203, on left bank 50 ft upstream from Bristol Street Bridge at Santa Ana and 1,625 ft upstream from mouth at Santa Ana River.

DRAINAGE AREA.--98.6 mi².

PERIOD OF RECORD.--October 1928 to current year. Monthly discharge only October to December 1928, published in WSP 1315-B.

REVISED RECORDS.--WSP 1635: 1934, 1935(M), 1936. WSP 1928: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 105.00 ft, Orange County Environmental Management Agency bench mark. Prior to Sept. 8, 1969, at site 0.1 mi upstream at different datum; from Sept. 9, 1969, to July 21, 1976, at site 50 ft downstream at different datum; from July 22, 1976 to Sept. 30, 1993, at site 77 upstream at datum 5.25 ft lower.

REMARKS.--Records fair. Flow regulated since December 1931 by Santiago Reservoir, capacity, 25,000 acre-ft; since January 1963 by Villa Park flood-control reservoir, capacity, 15,500 acre-ft, and affected by intervening gravel pits. Diversions upstream from station by Irvine Company and Serrano and Carpenter Irrigation Districts. See schematic diagram of Santa Ana River basin.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 6,600 ft³/s, Feb. 25, 1969, gage height, 9.10 ft, site and datum then in use; maximum gage height, 11.57 ft, Jan. 4, 1995; no flow for many days each year.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 2,470 ft³/s, Jan. 4, gage height, 11.57 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	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
3	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4	.00	.00	.00	352	.00	.00	.00	.00	.00	.00	.00	.00
5	.00	.00	.00	3.9	.00	305	.00	.00	.00	.00	.00	.00
6	.00	.00	.00	.00	.00	1580	.00	.00	.00	.00	.00	.00
7	.00	.00	.00	145	.00	1050	.00	.00	.00	.00	.00	.00
8	.00	.00	.00	6.7	.00	482	.00	.00	.00	.00	.00	.00
9	.00	.00	.00	.00	.00	280	.00	.00	.00	.00	.00	.00
10	.00	28	.00	252	.00	186	.00	.00	.00	.00	.00	e.00
11	.00	.00	.00	.00	.00	1060	.00	.00	.00	.00	.00	e.00
12	.00	.00	.00	13	.00	806	.00	.00	.00	.00	.00	e.00
13	.00	.00	6.6	.00	.00	411	.00	.00	.00	.00	.00	e.00
14	.00	.00	.00	.00	24	57	.00	.00	.00	.00	.00	e.00
15	.00	.00	.00	.00	.00	.48	.00	.00	.00	.00	.00	e.00
16	.00	.00	.00	.00	.00	.00	13	.00	.00	.00	.00	e.00
17	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	e.00
18	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	e.00
19	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	e.00
20	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	e.00
21	.00	.00	.00	6.8	.00	12	.00	.00	.00	.00	.00	e.00
22	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	e.00
23	.00	.00	.00	20	.00	40	.00	.00	.00	.00	.00	e.00
24	.00	.00	14	28	.00	.00	.00	.00	.00	.00	.00	e.00
25	.00	.00	19	46	.00	.00	.00	.00	.00	.00	.00	e.00
26	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	e.00
27	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	e.00
28	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	e.00
29	.00	.00	.00	.00	---	.00	.00	.00	.00	.00	.00	e.00
30	.00	.00	.00	.00	---	.00	.00	.00	.00	.00	.00	e.00
31	.00	---	.00	.00	---	.00	---	.00	---	.00	.00	---
TOTAL	0.00	28.00	39.60	873.40	24.00	6269.48	13.00	0.00	0.00	0.00	0.00	0.00
MEAN	.000	.93	1.28	28.2	.86	202	.43	.000	.000	.000	.000	.000
MAX	.00	28	19	352	24	1580	13	.00	.00	.00	.00	.00
MIN	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
AC-FT	.00	56	79	1730	48	12440	26	.00	.00	.00	.00	.00

e Estimated.

SANTA ANA RIVER BASIN

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11077500 SANTIAGO CREEK AT SANTA ANA, CA--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1931 - 1963, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	.079	.37	2.20	5.64	9.28	29.7	7.56	.32	.002	.000	.000	.053
MAX	2.61	3.03	9.71	62.3	94.6	329	159	3.85	.050	.000	.000	1.20
(WY)	1935	1945	1937	1952	1937	1938	1941	1941	1941	1931	1931	1939
MIN	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
(WY)	1931	1931	1931	1936	1952	1931	1932	1931	1931	1931	1931	1931

SUMMARY STATISTICS

WATER YEARS 1931 - 1963

ANNUAL MEAN	4.60	
HIGHEST ANNUAL MEAN	40.0	1941
LOWEST ANNUAL MEAN	.067	1961
HIGHEST DAILY MEAN	2320	Mar 3 1938
LOWEST DAILY MEAN	.00	Oct 1 1930
ANNUAL SEVEN-DAY MINIMUM	.00	Oct 1 1930
INSTANTANEOUS PEAK FLOW	4400	Mar 2 1938
INSTANTANEOUS PEAK STAGE	9.85	Jan 16 1952
ANNUAL RUNOFF (AC-FT)	3330	
10 PERCENT EXCEEDS	.40	
50 PERCENT EXCEEDS	.00	
90 PERCENT EXCEEDS	.00	

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	.20	1.88	2.03	13.2	38.2	25.9	.60	.054	.012	.019	.060	.11
MAX	4.29	7.80	10.1	259	616	253	4.52	1.25	.24	.58	1.60	1.59
(WY)	1984	1983	1967	1993	1969	1978	1965	1977	1993	1984	1977	1976
MIN	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
(WY)	1965	1969	1964	1972	1964	1966	1966	1964	1964	1964	1964	1964

SUMMARY STATISTICS

FOR 1994 CALENDAR YEAR

FOR 1995 WATER YEAR

WATER YEARS 1964 - 1995

ANNUAL TOTAL	133.75	7247.48	
ANNUAL MEAN	.37	19.9	6.68
HIGHEST ANNUAL MEAN			71.7
LOWEST ANNUAL MEAN			.18
HIGHEST DAILY MEAN	28	Nov 10	1580
LOWEST DAILY MEAN	.00	Jan 1	.00
ANNUAL SEVEN-DAY MINIMUM	.00	Jan 1	.00
INSTANTANEOUS PEAK FLOW			2470
INSTANTANEOUS PEAK STAGE			11.57
ANNUAL RUNOFF (AC-FT)	265	14380	4840
10 PERCENT EXCEEDS	.00	.00	.00
50 PERCENT EXCEEDS	.00	.00	.00
90 PERCENT EXCEEDS	.00	.00	.00

11078000 SANTA ANA RIVER AT SANTA ANA, CA

LOCATION.--Lat 33°45'04", long 117°54'27", in NW 1/4 SE 1/4 sec.10, T.5 S., R.10 W., Orange County, Hydrologic Unit 18070203, on right bank 850 ft upstream from Fifth Street Bridge in Santa Ana and 1.6 mi downstream from Santiago Creek.

DRAINAGE AREA.--1,700 mi², excludes 768 mi² above Lake Elsinore.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--January 1923 to September 1989, October 1990 to current year. Discharge measurements only, October 1989 to September 1990.

REVISED RECORDS.--WSP 1635: 1940(M), 1944. WDR CA-74-1: Drainage area. WDR CA-79-1: 1978(M).

GAGE.--Water-stage recorder and concrete-lined flood control channel. Elevation of gage is 70 ft, above sea level, from topographic map. Oct. 1, 1990, to Feb. 12, 1991, at site 900 ft downstream at different datum. Feb. 13, 1991, to Apr. 4, 1994, at datum 3 ft lower. See WDR CA-90-1 for complete history of location and datum changes.

REMARKS.--Records fair except for estimated daily discharges, which are poor. Natural flow affected by ground-water withdrawals, diversions, importation by Metropolitan Water District, municipal use, return flow from irrigation. Since 1940, natural flow affected by Prado Flood-Control Reservoir, capacity, 196,200 acre-ft; three small flood-control reservoirs, combined capacity, 31,900 acre-ft; Big Bear Lake (station 11049000); and Santiago Reservoir, capacity, 25,000 acre-ft. Discharge up to 100 ft³/s can be diverted from Carbon Creek to Coyote Creek 1.5 mi upstream from mouth of Carbon Creek. Gage out of operation from Apr. 5, 1994, through Nov. 14, 1994, due to channel work (lining). See schematic diagram of Santa Ana River basin.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 46,300 ft³/s, Mar. 3, 1938, gage height, 10.20 ft, site and datum then in use, on basis of slope-area measurement of peak flow; no flow for many days each year.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 31,700 ft³/s, Jan. 4, gage height, 9.09 ft, from rating curve extended above 18,400 ft³/s; no flow 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	.00	.00	.52	.00	763	.00	.00	.00	.00	.00
2	e.00	e.00	.00	.00	.00	1.3	722	.00	.00	.00	.00	.00
3	e.00	e.00	.00	17	.00	16	531	.00	14	.00	.00	.00
4	e.00	e.00	.00	4900	.00	.27	36	33	12	.00	.00	.00
5	e.00	e.00	2.2	3770	.00	1830	1.2	75	9.2	.00	.00	.00
6	e.00	e.00	.00	4120	.00	5370	145	76	.18	.00	.00	.00
7	e.00	e.00	.00	6810	.00	e5000	224	52	.70	.00	.00	.00
8	e.00	e.00	.23	5410	.00	e4700	190	133	10	.00	.00	.00
9	e.00	e.00	.00	3220	.00	e2500	188	196	11	.00	.00	.00
10	e.00	e.00	.00	7190	.00	e2300	200	162	12	.00	.00	.00
11	e.00	e.00	.00	5440	.00	e6500	211	139	13	.00	.00	.00
12	e.00	e.00	.00	7410	.00	e6000	175	11	11	.00	.00	.00
13	e.00	e.00	15	6290	1.7	e3200	91	45	1.2	.00	.00	.00
14	e.00	e.00	.00	4210	463	1220	86	67	.81	.00	.00	.00
15	e.00	.00	.00	581	670	1090	91	79	12	.00	.00	.00
16	e.00	.44	.00	510	2320	1060	395	80	78	.55	.00	.00
17	e.00	.00	.00	100	1390	830	1310	40	157	.00	.00	.00
18	e.00	.00	.00	116	36	444	548	31	10	.00	.00	.00
19	e.00	.00	.00	287	1.2	461	236	27	.28	.00	.00	.00
20	e.00	.00	.00	145	.00	705	196	17	.00	.00	.00	.00
21	e.00	.00	.00	243	.00	1700	199	6.4	.00	.00	.00	.00
22	e.00	.00	.00	37	.00	1930	214	4.2	.00	.00	.00	.00
23	e.00	.00	.00	176	.00	3910	209	6.2	.00	.00	.00	.00
24	e.00	.00	16	1420	.00	2660	192	1.5	.00	.00	.00	.00
25	e.00	.00	65	3250	.00	345	33	.00	.00	.00	.00	.00
26	e.00	1.6	.00	2200	.00	434	5.5	.00	.00	.00	.00	.00
27	e.00	.00	.00	1640	.00	874	.01	.00	.00	.00	.00	.00
28	e.00	.00	.00	141	.00	1040	.00	.00	.00	.00	.00	.00
29	e.00	.45	.00	108	---	809	.00	.00	.00	.00	.00	.00
30	e.00	.00	.00	49	---	496	.00	.00	.00	.00	.00	.00
31	e.00	---	.00	6.7	---	442	---	.00	---	.00	.00	---
TOTAL	0.00	2.49	98.43	69796.70	4882.42	57867.57	7191.71	1281.30	352.37	0.55	0.00	0.00
MEAN	.000	.083	3.18	2252	174	1867	240	41.3	11.7	.018	.000	.000
MAX	.00	1.6	65	7410	2320	6500	1310	196	157	.55	.00	.00
MIN	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
AC-FT	.00	4.9	195	138400	9680	114800	14260	2540	699	1.1	.00	.00

e Estimated.

11078000 SANTA ANA RIVER AT SANTA ANA, CA--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1923 - 1939, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	.50	.46	5.97	5.50	106	137	29.0	.63	.000	.000	.000	.097
MAX	7.94	2.43	29.3	34.2	1028	2029	358	4.65	.000	.000	.000	1.65
(WY)	1935	1924	1939	1934	1927	1938	1926	1938	1923	1923	1923	1939
MIN	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
(WY)	1924	1925	1926	1926	1925	1929	1930	1925	1923	1923	1923	1923

SUMMARY STATISTICS

WATER YEARS 1923 - 1939

ANNUAL MEAN	23.7	
HIGHEST ANNUAL MEAN	178	1938
LOWEST ANNUAL MEAN	.000	1931
HIGHEST DAILY MEAN	20300	Mar 3 1938
LOWEST DAILY MEAN	.00	Mar 16 1923
ANNUAL SEVEN-DAY MINIMUM	.00	Mar 21 1923
INSTANTANEOUS PEAK FLOW	46300	Mar 3 1938
INSTANTANEOUS PEAK STAGE	10.20	Mar 3 1938
ANNUAL RUNOFF (AC-FT)		17190
10 PERCENT EXCEEDS	3.6	
50 PERCENT EXCEEDS	.00	
90 PERCENT EXCEEDS	.00	

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	3.56	11.8	36.3	178	236	263	64.4	17.7	8.56	.45	2.07	1.50
MAX	179	154	428	3962	3014	2342	889	613	433	22.9	102	40.6
(WY)	1984	1984	1985	1993	1980	1969	1980	1983	1983	1980	1983	1986
MIN	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
(WY)	1940	1940	1940	1976	1949	1949	1949	1940	1940	1940	1940	1940

SUMMARY STATISTICS

FOR 1994 CALENDAR YEAR

FOR 1995 WATER YEAR

WATER YEARS 1940 - 1995

ANNUAL TOTAL	1906.96	141473.54	
ANNUAL MEAN	5.22	388	67.9
HIGHEST ANNUAL MEAN			612
LOWEST ANNUAL MEAN			.006
HIGHEST DAILY MEAN	634	Feb 7	7410
LOWEST DAILY MEAN	.00	Jan 9	.00
ANNUAL SEVEN-DAY MINIMUM	.00	Apr 14	.00
INSTANTANEOUS PEAK FLOW			31700
INSTANTANEOUS PEAK STAGE			9.09
ANNUAL RUNOFF (AC-FT)	3780		280600
10 PERCENT EXCEEDS	.72		848
50 PERCENT EXCEEDS	.00		.00
90 PERCENT EXCEEDS	.00		.00

SANTA ANA RIVER BASIN

11078000 SANTA ANA RIVER AT SANTA ANA, CA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1968-71, 1973 to current year.

WATER TEMPERATURE: Water years 1968-69, 1971, 1973-80, 1982-87.

SEDIMENT DATA: Water years 1968-71, 1973 to current year.

PERIOD OF DAILY RECORD.--

WATER TEMPERATURE: October 1967 to September 1969, October 1970 to September 1971, October 1972 to September 1980, October 1981 to September 1987.

SUSPENDED-SEDIMENT DISCHARGE: October 1967 to September 1971, October 1972 to September 1980, October 1981 to September 1987.

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- PENDE (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (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								
05...	1230	2810	13.5	3450	26200	31	40	43
10...	1400	7960	11.0	1830	39300	18	22	25
25...	1650	4810	12.0	1490	19400	--	--	--
FEB								
14...	1340	769	16.5	558	1160	--	--	--
MAR								
11...	1740	8720	--	2100	49400	24	31	37
23...	1100	4040	13.0	2080	22700	--	--	--

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
JAN								
05...	58	71	73	82	87	93	99	100
10...	34	43	54	69	89	99	100	--
25...	--	--	58	--	--	--	--	--
FEB								
14...	--	--	92	96	99	100	--	--
MAR								
11...	50	62	72	81	90	99	100	--
23...	--	--	62	--	--	--	--	--

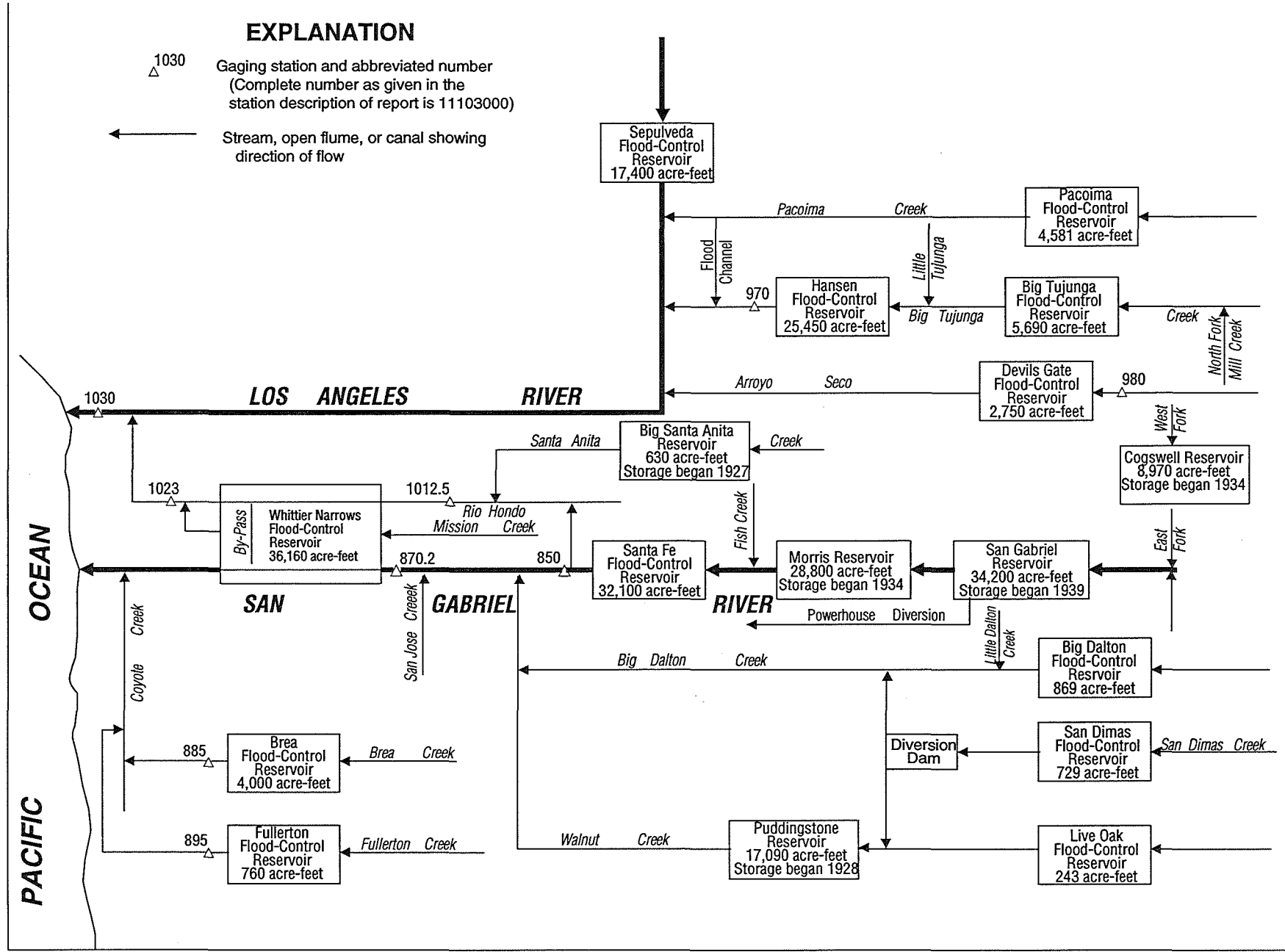


Figure 16. Diversions and storage in San Gabriel and Los Angeles River basins.

11085000 SAN GABRIEL RIVER BELOW SANTA FE DAM, NEAR BALDWIN PARK, CA

LOCATION.--Lat 34°06'44", long 117°58'07", in NE 1/4 SW 1/4 sec.6, T.1 S., R.10 W., Los Angeles County, Hydrologic Unit 18070106, on left bank at stilling basin of outlet of Santa Fe Flood-Control Dam, 500 ft downstream from axis of dam, and 1.7 mi north of Baldwin Park.

DRAINAGE AREA.--236 mi².

PERIOD OF RECORD.--October 1942 to current year.

REVISED RECORDS.--WSP 1315-B and 1635: 1943(M). WSP 1928: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 400.00 ft above sea level (levels by U.S. Army Corps of Engineers).

REMARKS.--Records fair except for estimated daily discharges and discharges below 100 ft³/s, which are poor. Flow regulated by Cogswell and San Gabriel Flood-Control Reservoirs, combined capacity, 43,170 acre-ft; Morris Reservoir, capacity, 28,800 acre-ft; and Santa Fe Flood-Control Reservoir, capacity, 32,100 acre-ft. Diversions upstream from station for irrigation, power development, and ground-water replenishment. At times water is diverted from side of stilling basin to headwaters of Rio Hondo; 17,050 acre-ft were diverted during the current year. See schematic diagram of San Gabriel and Los Angeles River basins.

COOPERATION.--Records of diversion to Rio Hondo provided by Los Angeles County Department of Public Works.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 30,900 ft³/s, Jan. 26, 1969, gage height, 22.20 ft; no flow for many days each year.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 6,400 ft³/s, Mar. 6, gage height, 15.04 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	.00	.01	8.1	.03	72	e.00	.00	165	41	107	239	.00
2	.00	.00	128	.02	19	e.00	.00	299	49	17	211	.00
3	.00	.00	.00	.00	14	e.00	.00	297	58	1.4	54	.00
4	.00	.00	.00	1.7	9.4	e5.6	.00	264	62	.17	19	.00
5	.00	.00	.00	11	5.4	e48	.00	255	60	.08	5.4	.00
6	.00	.00	.00	.09	106	e2460	.00	266	71	99	1.1	.00
7	.00	.00	.00	.03	85	e5430	.03	261	66	128	.31	.00
8	.00	.00	.00	4.9	38	e4380	.03	266	50	133	.10	.00
9	.00	.00	.00	29	60	e3140	.03	571	20	137	.04	.00
10	.00	.00	.00	48	11	e718	.03	720	7.6	141	.03	.00
11	.00	.00	.00	85	9.4	e227	.04	757	1.7	140	.03	.00
12	.00	.00	.00	91	9.1	e235	.04	770	1.2	141	.02	.00
13	.00	.00	.00	91	e49	e233	.04	717	48	142	.02	.00
14	.00	.00	.00	87	e257	e300	.04	631	128	146	.01	.00
15	.00	.00	.00	78	e1900	e747	.08	374	152	148	.01	.00
16	.02	.00	.00	69	e2700	e1110	.09	236	172	153	.00	.00
17	.14	.00	.00	56	e87	e1110	.08	202	173	155	.00	.00
18	.22	.00	.00	14	e6.5	e1110	.08	171	164	157	.00	.00
19	.22	.00	.29	31	e6.9	e1110	.08	150	148	212	.00	.00
20	.22	.00	3.5	31	e7.7	e1220	.08	145	124	283	.00	.00
21	.22	.00	8.0	30	e266	e1580	.08	141	122	265	.00	.00
22	.22	.00	9.6	29	e642	e1730	.06	145	68	247	.00	.00
23	.22	.00	9.8	155	e524	e1740	.04	146	42	235	.00	.00
24	.22	.00	8.8	457	e326	e1490	.04	142	26	227	.00	.00
25	4.5	.00	13	1160	e309	e1050	.04	126	15	69	.00	.00
26	1.5	.00	10	1790	e292	e800	.03	169	22	47	.00	.00
27	.04	.00	8.6	168	e89	e600	.03	173	99	41	.00	.00
28	.03	.00	8.4	38	e.00	e350	.03	149	115	68	.00	.00
29	.03	.00	7.3	36	---	189	.03	116	125	80	.00	.00
30	.02	.00	.32	34	---	49	.03	28	134	77	.00	.00
31	.01	---	.04	67	---	.00	---	24	---	137	.00	---
TOTAL	7.83	0.01	223.75	4691.77	7900.40	33161.60	1.18	8876	2364.5	3933.65	530.07	0.00
MEAN	.25	.000	7.22	151	282	1070	.039	286	78.8	127	17.1	.000
MAX	4.5	.01	128	1790	2700	5430	.09	770	173	283	239	.00
MIN	.00	.00	.00	.00	.00	.00	.00	24	1.2	.08	.00	.00
AC-FT	16	.02	444	9310	15670	65780	2.3	17610	4690	7800	1050	.00

e Estimated.

SAN GABRIEL RIVER BASIN

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11085000 SAN GABRIEL RIVER BELOW SANTA FE DAM, NEAR BALDWIN PARK, CA--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1943 - 1995, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	2.72	18.5	31.9	142	242	219	63.3	58.7	26.7	8.84	6.06	10.5
MAX	74.6	577	514	2151	3259	2465	616	480	414	170	121	206
(WY)	1993	1966	1947	1969	1969	1978	1978	1958	1958	1962	1962	1946
MIN	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
(WY)	1943	1943	1943	1945	1947	1947	1945	1945	1945	1943	1943	1943

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1943 - 1995	
ANNUAL TOTAL	443.93		61690.76			
ANNUAL MEAN	1.22		169		68.3	
HIGHEST ANNUAL MEAN					540	
LOWEST ANNUAL MEAN					.000	
HIGHEST DAILY MEAN	128	Dec 2	5430	Mar 7	26000	Jan 26 1969
LOWEST DAILY MEAN	.00	Jan 1	.00	Oct 1	.00	Oct 1 1942
ANNUAL SEVEN-DAY MINIMUM	.00	Jan 1	.00	Oct 1	.00	Oct 1 1942
INSTANTANEOUS PEAK FLOW			6400	Mar 6	30900	Jan 26 1969
INSTANTANEOUS PEAK STAGE			15.04	Mar 6	22.20	Jan 26 1969
ANNUAL RUNOFF (AC-FT)	881		122400		49480	
10 PERCENT EXCEEDS	4.0		299		80	
50 PERCENT EXCEEDS	.00		4.5		.00	
90 PERCENT EXCEEDS	.00		.00		.00	

11087020 SAN GABRIEL RIVER ABOVE WHITTIER NARROWS DAM, CA

LOCATION.--Lat 34°02'03", long 118°02'14", in La Puente Grant, Los Angeles County, Hydrologic Unit 18070106, at Peck Road 0.8 mi downstream from San Jose Flood Channel, 1.2 mi upstream from axis of Whittier Narrows Dam, and 1.8 mi south of El Monte.

DRAINAGE AREA.--442 mi².

PERIOD OF RECORD.--October 1955 to September 1957, October 1963 to current year.

REVISED RECORDS.--WDR CA-86-1: Drainage area.

GAGE.--Water-stage recorder. Elevation of gage is 220 ft above sea level, from topographic map.

REMARKS.--No estimated daily discharges. Records good except for discharges below 200 ft³/s, which are fair. Flow regulated by several reservoirs, combined capacity, 123,000 acre-ft. Many diversions upstream from station for irrigation, power development, and ground-water replenishment. Colorado River water released to the San Gabriel River at a site 14.9 mi upstream from gage, at Metropolitan Water District aqueduct crossing on San Dimas Creek for ground-water replenishment. Los Angeles County Department of Public Works diverted 17,050 acre-ft from San Gabriel River below Santa Fe Dam to Rio Hondo during the current year. See schematic diagram of San Gabriel and Los Angeles River basins. Satellite telemark at station.

COOPERATION.--Records of diversion to Rio Hondo provided by Los Angeles County Department of Public Works.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 46,600 ft³/s, Jan. 25, 1969, from rating curve extended above 29,000 ft³/s, gage height, 10.90 ft; no flow for part of some years.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 38,900 ft³/s, Jan. 10, gage height, 10.51 ft; minimum daily, 11 ft³/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	11	143	142	146	464	28	59	47	47	70	97	44
2	11	80	138	146	54	87	59	48	60	69	100	44
3	36	139	136	349	65	770	58	50	65	64	85	42
4	196	151	74	5970	41	199	55	85	66	68	49	41
5	395	161	21	950	42	6570	56	94	60	76	73	73
6	138	155	19	38	38	3850	51	110	60	85	63	70
7	150	153	18	932	63	6700	55	101	63	76	71	82
8	154	173	17	1590	41	4840	55	74	58	78	71	80
9	148	128	48	999	67	3840	54	47	66	80	73	91
10	147	531	132	8380	35	933	57	59	73	99	72	84
11	139	29	141	1560	27	6490	51	164	73	102	73	90
12	74	25	141	1660	32	691	57	210	74	106	68	76
13	143	26	382	208	397	228	65	212	62	103	70	87
14	144	23	134	192	2510	234	70	185	58	110	75	52
15	188	63	50	199	1280	381	50	211	115	100	66	38
16	145	141	139	48	2900	669	881	69	1710	100	70	38
17	146	140	141	50	154	634	73	69	99	101	62	40
18	139	161	139	35	50	595	508	57	73	89	75	42
19	134	149	144	28	54	592	71	53	75	98	73	38
20	131	143	145	32	50	674	58	52	71	98	62	41
21	132	29	142	56	94	2170	57	46	72	109	74	41
22	133	64	156	31	317	1310	50	72	79	96	69	40
23	131	145	136	1280	298	2840	52	69	74	100	78	35
24	137	149	195	2710	199	1200	59	65	80	114	73	36
25	140	141	521	2950	188	758	52	45	70	92	76	43
26	151	223	29	1230	174	717	47	57	75	99	76	39
27	148	144	29	157	119	552	46	78	67	99	66	48
28	153	153	149	63	33	222	49	65	73	104	73	42
29	147	147	147	61	---	191	52	50	70	100	57	40
30	154	147	142	50	---	105	51	74	74	96	42	43
31	144	---	144	41	---	63	---	48	---	104	44	---
TOTAL	4339	4056	4091	32141	9786	49133	2958	2666	3762	2885	2176	1600
MEAN	140	135	132	1037	349	1585	98.6	86.0	125	93.1	70.2	53.3
MAX	395	531	521	8380	2900	6700	881	212	1710	114	100	91
MIN	11	23	17	28	27	28	46	45	47	64	42	35
AC-FT	8610	8050	8110	63750	19410	97460	5870	5290	7460	5720	4320	3170

SAN GABRIEL RIVER BASIN

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11087020 SAN GABRIEL RIVER ABOVE WHITTIER NARROWS DAM, 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	89.8	151	159	398	584	426	115	91.8	66.0	56.9	55.5	75.7
MAX	208	782	426	4150	4497	3796	590	274	254	230	208	205
(WY)	1979	1966	1993	1993	1980	1978	1978	1983	1976	1973	1973	1978
MIN	.000	.000	9.84	19.0	.000	.000	.47	.14	.000	.000	.000	.000
(WY)	1956	1978	1977	1968	1956	1956	1956	1957	1956	1956	1956	1957

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1956 - 1995	
ANNUAL TOTAL	39280.5		119593			
ANNUAL MEAN	108		328		187	
HIGHEST ANNUAL MEAN					810	
LOWEST ANNUAL MEAN					24.4	
HIGHEST DAILY MEAN	1750	Mar 24	8380	Jan 10	24600	Jan 26 1969
LOWEST DAILY MEAN	7.7	Sep 20	11	Oct 1	.00	Oct 1 1955
ANNUAL SEVEN-DAY MINIMUM	11	Sep 26	39	Sep 18	.00	Oct 1 1955
INSTANTANEOUS PEAK FLOW			38900	Jan 10	46600	Jan 25 1969
INSTANTANEOUS PEAK STAGE			10.51	Jan 10	10.90	Jan 25 1969
ANNUAL RUNOFF (AC-FT)	77910		237200		135600	
10 PERCENT EXCEEDS	166		593		212	
50 PERCENT EXCEEDS	49		78		68	
90 PERCENT EXCEEDS	22		41		.00	

SAN GABRIEL RIVER BASIN

11088500 BREA CREEK BELOW BREA DAM, NEAR FULLERTON, CA

LOCATION.--Lat 33°53'16", long 117°55'32", in NE 1/4 NE 1/4 sec.28, T.3 S., R.10 W., Orange County, Hydrologic Unit 18070106, on right bank 0.2 mi downstream from Brea Dam and 1 mi north of Fullerton.

DRAINAGE AREA.--21.6 mi².

PERIOD OF RECORD.--January 1942 to current year.

REVISED RECORDS.--WSP 1041: 1944(M). WSP 1635: 1956, 1958. WSP 1928: Drainage area.

GAGE.--Water-stage recorder. Elevation of gage is 200 ft above sea level, from topographic map. Prior to Dec. 4, 1964, at datum 1.03 ft higher.

REMARKS.--No estimated daily discharges. Records poor except for discharges above 100 ft³/s, which are fair. Flow regulated by Brea Flood-Control Reservoir, capacity, 4,000 acre-ft. No diversion upstream from station. Since August 1966 low flow mostly the result of irrigation wastewater from golf course 0.8 mi upstream. See schematic diagram of San Gabriel and Los Angeles River basins.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 1,700 ft³/s, Feb. 18, 1980; no flow for parts of some years.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,260 ft³/s, Jan. 4, gage height, 5.64 ft; minimum daily, 0.20 ft³/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	2.8	1.1	3.4	2.2	8.8	.93	7.2	6.5	2.6	3.0	.78	1.5
2	3.4	1.2	2.6	1.9	9.8	1.8	7.0	12	2.6	5.2	.99	2.4
3	3.8	1.6	2.4	37	12	32	8.5	6.3	2.3	3.1	.68	1.1
4	16	1.8	2.4	308	3.6	17	7.9	3.7	2.6	2.8	.78	1.1
5	15	1.0	2.6	301	4.2	352	7.1	3.7	2.9	3.1	.82	.82
6	2.3	1.2	2.6	15	.50	138	6.6	6.9	2.3	2.7	.87	.97
7	3.1	1.2	3.0	89	.94	31	7.5	3.7	2.9	2.3	.72	1.1
8	2.5	1.8	2.9	126	1.5	34	4.4	4.4	2.8	2.2	.72	1.1
9	1.8	1.4	3.2	25	3.9	26	4.4	5.5	1.9	2.5	.79	.92
10	2.6	45	3.5	412	4.5	49	1.6	3.4	4.8	2.8	.72	.72
11	1.1	4.8	2.8	106	1.6	531	5.5	3.2	3.9	3.8	.95	2.3
12	1.2	3.3	2.9	72	1.4	54	2.3	4.1	4.4	3.0	.81	1.1
13	1.1	3.0	19	13	18	30	3.6	5.6	1.5	2.7	.68	1.1
14	1.9	3.2	2.5	8.8	91	21	5.4	4.3	1.4	2.6	.64	.63
15	3.0	3.3	2.1	9.8	19	12	3.3	3.8	9.9	2.5	.54	.41
16	1.2	3.7	2.0	4.6	6.4	12	42	2.5	96	3.7	.78	.32
17	1.1	3.6	1.9	3.7	7.7	9.3	4.4	2.4	24	2.4	.68	.30
18	.98	3.6	1.9	3.3	5.4	8.1	36	2.4	6.8	3.0	.86	.33
19	.90	3.3	2.4	3.2	4.3	8.0	13	2.2	5.1	2.7	1.0	.33
20	.85	2.7	3.2	3.1	5.0	7.6	4.1	1.9	6.2	5.3	.80	.33
21	.89	2.8	3.1	9.4	8.2	72	6.6	1.9	3.7	3.8	.68	.30
22	.99	2.6	2.9	2.6	10	14	8.9	2.3	7.0	6.8	.86	.26
23	1.0	2.7	2.6	76	6.3	175	18	2.4	3.5	3.2	.82	.35
24	1.2	2.8	9.4	145	2.1	46	6.4	5.7	3.0	4.2	.74	.35
25	.98	3.9	36	236	1.6	26	2.1	6.4	2.8	3.9	.93	.39
26	.94	4.2	6.2	58	1.4	24	1.5	3.1	2.7	5.1	.75	.38
27	1.0	2.9	4.8	39	1.3	29	1.5	2.6	6.5	1.4	.81	.29
28	.82	2.5	4.0	31	1.3	15	1.6	4.6	3.2	1.2	.87	.20
29	1.0	2.9	3.5	7.4	---	7.7	3.7	7.8	2.8	1.1	1.0	.26
30	1.1	3.0	2.9	12	---	11	4.1	2.8	4.8	.93	1.1	.27
31	1.1	---	2.4	15	---	8.2	---	2.6	---	.95	1.2	---
TOTAL	77.65	122.1	147.1	2176.0	241.74	1802.63	236.2	130.7	226.9	93.98	25.37	21.93
MEAN	2.50	4.07	4.75	70.2	8.63	58.1	7.87	4.22	7.56	3.03	.82	.73
MAX	16	45	36	412	91	531	42	12	96	6.8	1.2	2.4
MIN	.82	1.0	1.9	1.9	.50	.93	1.5	1.9	1.4	.93	.54	.20
AC-FT	154	242	292	4320	479	3580	469	259	450	186	50	43

11088500 BREA CREEK BELOW BREA DAM, NEAR FULLERTON, 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	1.01	3.01	4.16	9.62	12.7	9.74	2.97	.83	.63	.47	.56	.77
MAX	15.3	31.6	26.6	95.8	165	79.9	50.3	4.49	7.56	3.03	4.68	7.02
(WY)	1984	1984	1989	1993	1980	1978	1983	1977	1995	1995	1983	1986
MIN	.000	.000	.000	.003	.000	.000	.000	.000	.000	.000	.000	.000
(WY)	1943	1943	1951	1951	1951	1951	1950	1942	1942	1942	1942	1942

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR				FOR 1995 WATER YEAR				WATER YEARS 1942 - 1995			
ANNUAL TOTAL	1764.19				5302.30							
ANNUAL MEAN	4.83				14.5				3.83			
HIGHEST ANNUAL MEAN									20.9			
LOWEST ANNUAL MEAN									.001			
HIGHEST DAILY MEAN	118 Feb 7				531 Mar 11				1700 Feb 18 1980			
LOWEST DAILY MEAN	.56 Aug 9				.20 Sep 28				.00 Mar 24 1942			
ANNUAL SEVEN-DAY MINIMUM	.88 Jul 22				.31 Sep 24				.00 Apr 29 1942			
INSTANTANEOUS PEAK FLOW					1260 Jan 4				a Feb 18 1980			
INSTANTANEOUS PEAK STAGE					5.64 Jan 4				a Feb 18 1980			
ANNUAL RUNOFF (AC-FT)	3500				10520				2780			
10 PERCENT EXCEEDS	7.0				24				3.0			
50 PERCENT EXCEEDS	2.0				2.9				.20			
90 PERCENT EXCEEDS	1.0				.81				.00			

a Instantaneous peak discharge and stage for period of record are unknown, but probably occurred on February 18, 1980.

11089500 FULLERTON CREEK BELOW FULLERTON DAM, NEAR BREA, CA

LOCATION.--Lat 33°53'45", long 117°53'07", in NW 1/4 SW 1/4 sec.24, T.3 S., R.10 W., Orange County, Hydrologic Unit 18070106, on left bank of outlet channel of Fullerton Dam and 1.6 mi southeast of Brea.

DRAINAGE AREA.--4.94 mi².

PERIOD OF RECORD.--October 1941 to current year.

REVISED RECORDS.--WSP 1245: 1950(M). WSP 1928: Drainage area. WDR CA-82-1: 1981.

GAGE.--Water-stage recorder. Elevation of gage is 250 ft above sea level, from topographic map. V-notch sharp-crested weir used Oct. 25, 1946, to Feb. 2, 1956. Prior to Dec. 3, 1971, at datum 3.00 ft higher.

REMARKS.--No estimated daily discharges. Records fair. Flow regulated by Fullerton flood-control reservoir, capacity, 760 acre-ft (resurvey of 1970). Small tributary formerly entering below station diverted into reservoir since December 1954. See schematic diagram of San Gabriel and Los Angeles River basins.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 392 ft³/s, Mar. 1, 1983, gage height, 8.25 ft, present datum; no flow at times some years.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 366 ft³/s, Mar. 11, gage height, 8.19 ft; no flow, Feb. 24.

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	.31	.28	.28	.31	.21	.34	.35	.42	.41	.46	.51	.42
2	.31	.27	.27	.30	.21	.94	.34	.42	.34	.38	.48	.42
3	.31	.29	.24	14	1.5	7.3	.36	.38	.33	.40	.55	.39
4	3.5	.26	.27	122	.57	1.0	.31	.44	.30	.42	.56	.41
5	1.8	.36	.27	90	.22	72	.33	.45	.32	.49	.54	.43
6	.48	.27	.28	.88	.24	86	.36	.83	.32	.43	.50	.45
7	.42	.28	.30	52	.23	.80	2.2	.39	.37	.38	.46	.55
8	.36	.58	.28	63	.21	.69	.47	.42	.42	.40	.51	.61
9	.36	.29	.34	10	.22	.53	.44	.43	.44	.33	.48	.61
10	.36	16	.33	101	.22	5.1	.32	.44	.45	.32	.50	.66
11	.31	.33	.33	82	3.4	166	.24	.52	.42	.32	.50	.72
12	.31	.29	.31	26	.44	5.0	.26	.51	.49	.31	.49	.57
13	.32	.27	5.0	.63	3.2	1.3	.26	.65	.44	.31	.47	.39
14	.32	.26	.41	2.6	37	.86	.26	.54	.43	.30	.49	.43
15	.72	.26	.35	4.2	.47	.35	.26	.56	6.0	.33	.53	.49
16	.28	.30	.32	.47	.24	.30	.30	.52	31	.58	.49	.47
17	.28	.27	.31	.34	.24	.28	21	.50	1.7	.32	.52	.46
18	.30	.26	.31	1.1	.24	.27	5.9	.53	.43	.38	.53	.52
19	.29	.26	.31	.74	2.0	.26	.66	.53	.40	.30	.52	.53
20	.31	.26	.40	.51	.20	2.8	.43	.43	.40	.31	.53	.52
21	.27	.27	.30	3.7	.19	23	.46	.47	.39	.31	.58	.58
22	.28	.26	.31	.44	.19	.74	.40	.50	.41	.34	.52	.64
23	.27	.27	.28	13	.11	72	.38	.48	.46	.31	.46	.76
24	.30	.29	4.9	59	.00	.57	.38	.47	.42	.33	.47	.66
25	.31	.28	12	62	1.5	.49	.38	.46	.40	.36	.48	.64
26	.29	.35	.32	31	1.9	.43	.39	.42	.43	.44	.48	.67
27	.29	.26	.37	.82	.35	.41	.39	.41	.43	.45	.40	.53
28	.28	.27	.33	.56	.36	.35	.41	.40	.43	.43	.38	.57
29	.28	.38	.38	.32	---	.33	.39	.45	.43	.45	.40	.57
30	.27	.27	.61	1.3	---	.35	.41	.40	.45	.41	.39	.70
31	.29	---	.30	.38	---	.36	---	.39	---	.51	.43	---
TOTAL	14.78	24.54	31.01	744.60	55.86	451.15	39.04	14.76	49.66	11.81	15.15	16.37
MEAN	.48	.82	1.00	24.0	1.99	14.6	1.30	.48	1.66	.38	.49	.55
MAX	3.5	16	12	122	37	166	21	.83	31	.58	.58	.76
MIN	.27	.26	.24	.30	.00	.26	.24	.38	.30	.30	.38	.39
AC-FT	29	49	62	1480	111	895	77	29	99	23	30	32

11089500 FULLERTON CREEK BELOW FULLERTON DAM, NEAR BREA, CA--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1942 - 1954, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	.000	.030	.034	.99	.41	.75	.058	.000	.002	.001	.000	.000
MAX	.000	.31	.19	6.62	3.34	4.60	.36	.003	.020	.016	.000	.000
(WY)	1942	1945	1946	1952	1944	1943	1952	1945	1942	1942	1942	1942
MIN	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
(WY)	1942	1942	1942	1942	1942	1942	1942	1942	1943	1943	1942	1942

SUMMARY STATISTICS

WATER YEARS 1942 - 1954

ANNUAL MEAN	.19	
HIGHEST ANNUAL MEAN	.92	1952
LOWEST ANNUAL MEAN	.000	1948
HIGHEST DAILY MEAN	79	Jan 19 1952
LOWEST DAILY MEAN	.00	Oct 1 1941
ANNUAL SEVEN-DAY MINIMUM	.00	Oct 1 1941
INSTANTANEOUS PEAK FLOW	298	Mar 16 1943
INSTANTANEOUS PEAK STAGE	3.80	Mar 16 1943
ANNUAL RUNOFF (AC-FT)	137	
10 PERCENT EXCEEDS	.00	
50 PERCENT EXCEEDS	.00	
90 PERCENT EXCEEDS	.00	

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	.52	1.09	1.83	4.17	4.44	3.38	.91	.37	.34	.30	.35	.44
MAX	5.31	5.76	9.96	28.0	25.0	18.6	6.28	1.92	1.66	1.01	1.72	2.53
(WY)	1984	1986	1993	1993	1980	1983	1958	1977	1995	1991	1977	1986
MIN	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
(WY)	1955	1955	1955	1963	1964	1966	1955	1961	1955	1955	1955	1955

SUMMARY STATISTICS

FOR 1994 CALENDAR YEAR

FOR 1995 WATER YEAR

WATER YEARS 1955 - 1995

ANNUAL TOTAL	448.69	1468.73	
ANNUAL MEAN	1.23	4.02	1.50
HIGHEST ANNUAL MEAN			5.16
LOWEST ANNUAL MEAN			.028
HIGHEST DAILY MEAN	48	Feb 7	221
LOWEST DAILY MEAN	.13	Jan 21	.00
ANNUAL SEVEN-DAY MINIMUM	.25	Jun 19	.00
INSTANTANEOUS PEAK FLOW			366
INSTANTANEOUS PEAK STAGE			8.19
ANNUAL RUNOFF (AC-FT)	890	2910	1090
10 PERCENT EXCEEDS	.58	2.7	.98
50 PERCENT EXCEEDS	.34	.41	.24
90 PERCENT EXCEEDS	.27	.27	.00

11097000 BIG TUJUNGA CREEK BELOW HANSEN DAM, CA

LOCATION.--Lat 34°15'13", long 118°23'17", in Mission San Fernando Grant, Los Angeles County, Hydrologic Unit 18070105, in city of Los Angeles, on left bank of outlet channel 0.5 mi downstream from Hansen Dam, 0.1 mi upstream from Glen Oaks Boulevard, and 3 mi southeast of San Fernando.

DRAINAGE AREA.--153 mi².

PERIOD OF RECORD.--May 1932 to February 1938, August 1940 to current year. Monthly discharge only for some periods, published in WSP 1315-B. Prior to October 1975, published as Tujunga Creek below Hansen Dam.

REVISED RECORDS.--WDR CA-84-1: 1978(M).

GAGE.--Water-stage recorder. Datum of gage is 943.32 ft above sea level (U.S. Army Corps of Engineers benchmark). See WSP 1735 for history of changes prior to Oct. 1, 1953.

REMARKS.--No estimated daily discharges. Records fair except for discharges below 100 ft³/s, which are poor. Flow regulated since July 1931 by Big Tujunga Flood-Control Reservoir, capacity, 5,690 acre-ft, and since September 1940 by Hansen Flood-Control Reservoir, capacity, 25,450 acre-ft. Several small diversions for domestic use and irrigation. Since about 1948, Los Angeles County Department of Public Works has diverted water 0.3 mi upstream from gage to spreading grounds, as shown in footnote below table. See schematic diagram of San Gabriel and Los Angeles River basins.

COOPERATION.--Records of diversion provided by Los Angeles County Department of Public Works.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 15,200 ft³/s, Feb. 10, 1978, Mar. 2, 1983; maximum gage height, 7.64 ft, Mar. 2, 1983; no flow for many days in most years.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum discharge, 54,000 ft³/s, estimated, Mar. 2, 1938.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,220 ft³/s, Mar. 11, gage height, 2.49 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	9.7	.00	.00	.00	38	73	78	61	56	3.4	.00	.00
2	9.7	.00	.00	.00	37	71	81	61	70	1.8	.00	.00
3	14	.00	.00	.00	35	83	87	63	70	.50	.00	.00
4	14	.00	.00	24	41	75	84	65	77	.50	.00	.00
5	13	.00	.00	21	48	187	77	65	77	.50	.00	.00
6	9.3	.00	.00	6.8	47	881	77	65	77	.50	.00	.00
7	8.0	.00	.00	13	47	541	73	65	77	.50	.00	.00
8	8.0	.00	.00	19	47	162	73	65	27	.50	.00	.00
9	7.2	.00	.00	66	49	108	73	74	.50	.50	.00	.00
10	6.1	.00	.00	584	51	106	73	77	.50	.40	.00	.00
11	6.1	.00	.00	1090	50	1020	72	74	.50	.00	.00	.00
12	5.9	.00	.00	831	48	1050	69	73	.50	.00	.00	.00
13	4.6	.00	.00	189	23	1020	68	73	.50	.00	.00	.00
14	4.6	.00	.00	149	249	946	65	73	.50	.27	.00	.00
15	4.0	.00	.00	110	244	786	65	73	.50	.50	.00	.00
16	2.4	.00	.00	107	140	599	57	73	1.8	.50	.00	.00
17	.50	.00	.00	75	62	263	60	88	3.4	.50	.00	.00
18	.36	.00	.00	3.4	61	231	57	95	3.4	.50	.00	.00
19	.00	.00	.00	1.7	60	196	58	90	3.4	.50	.00	.00
20	.00	.00	.00	.50	53	143	61	86	3.4	.50	.00	.00
21	.00	.00	.00	.50	41	396	57	86	3.4	.50	.00	.00
22	.00	.00	.00	.37	65	290	57	84	3.4	2.0	.00	.00
23	.00	.00	.00	.00	67	457	59	85	3.4	3.4	.00	.00
24	.00	.00	.00	436	65	381	61	86	3.4	3.4	.00	.00
25	.00	.00	.00	791	65	249	63	86	3.4	3.4	.00	.00
26	.00	.00	.00	784	71	228	64	86	6.0	3.4	.00	1.6
27	.00	.00	.00	444	69	167	62	82	5.6	2.4	.00	3.4
28	.00	.00	.00	148	81	143	62	82	4.2	.50	.00	3.4
29	.00	.00	.00	63	---	123	61	82	3.6	.49	.00	3.4
30	.00	.00	.00	62	---	91	61	81	4.2	.00	.00	3.7
31	.00	---	.00	65	---	77	---	63	---	.00	.00	---
TOTAL	127.46	0.00	0.00	6084.27	1954	11143	2015	2362	590.50	31.86	0.00	15.50
MEAN	4.11	.0000	.0000	196	69.8	359	67.2	76.2	19.7	1.03	.0000	.52
MAX	14	.00	.00	1090	249	1050	87	95	77	3.4	.00	3.7
MIN	.00	.00	.00	.00	23	71	57	61	.50	.00	.00	.00
AC-FT	253	.00	.00	12070	3880	22100	4000	4690	1170	63	.00	31
a	326	102	266	18140	4690	28100	4150	4730	1220	92	26	72

a Combined discharge, in acre-feet, of creek and diversion.

11097000 BIG TUJUNGA CREEK BELOW HANSEN DAM, CA--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1948 - 1995, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	2.43	7.88	3.70	42.7	94.0	85.4	27.6	17.0	5.80	1.55	1.34	3.11
MAX	32.2	153	65.3	742	1218	1387	252	285	64.6	26.8	18.4	41.4
(WY)	1984	1984	1984	1993	1993	1983	1983	1983	1978	1979	1979	1983
MIN	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
(WY)	1948	1948	1950	1949	1949	1950	1950	1949	1948	1948	1948	1948

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR			FOR 1995 WATER YEAR			WATER YEARS 1948 - 1995		
ANNUAL TOTAL	4533.18			24323.59					
ANNUAL MEAN	12.4			66.6			24.0		
HIGHEST ANNUAL MEAN							224		
LOWEST ANNUAL MEAN							.000		
HIGHEST DAILY MEAN	94	Feb 10		1090	Jan 11		11400	Mar 2	1983
LOWEST DAILY MEAN	.00	Feb 23		.00	Oct 19		.00	Oct 1	1947
ANNUAL SEVEN-DAY MINIMUM	.00	Feb 23		.00	Oct 19		.00	Oct 1	1947
INSTANTANEOUS PEAK FLOW				1220	Mar 11		15200	Mar 2	1983
INSTANTANEOUS PEAK STAGE				2.49	Mar 11		7.64	Mar 2	1983
ANNUAL RUNOFF (AC-FT)	8990			48250			17390		
10 PERCENT EXCEEDS	41			115			15		
50 PERCENT EXCEEDS	4.6			3.4			.00		
90 PERCENT EXCEEDS	.00			.00			.00		

11098000 ARROYO SECO NEAR PASADENA, CA

LOCATION.--Lat 34°13'20", long 118°10'36", in NW 1/4 NE 1/4 sec.31, T.2 N., R.12 W., Los Angeles County, Hydrologic Unit 18070105, on right bank 0.7 mi east of Angeles Crest Highway, 1.5 mi upstream from Millard Canyon, and 5.5 mi northwest of Pasadena.

DRAINAGE AREA.--16.0 mi².

PERIOD OF RECORD.--December 1910 to January 1913 (fragmentary), April 1913 to November 1915, April 1916 to current year.

REVISED RECORDS.--WSP 1315-B: 1914(M), 1918(M), 1920-21(M). WSP 1928: Drainage area.

GAGE.--Water-stage recorder. Broad-crested weir since November 1938. Datum of gage is 1,397.88 ft above sea level. Prior to Oct. 1, 1916, nonrecording gage at different datum. Oct. 1, 1916, to Oct. 19, 1945, water-stage recorder at datum 4.00 ft lower.

REMARKS.--Records good except those for estimated daily discharges and discharges below 1 ft³/s, which are fair. No regulation or diversion upstream from station. See schematic diagram of San Gabriel and Los Angeles River basins.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 8,620 ft³/s, Mar. 2, 1938, gage height, 9.42 ft, present datum, on basis of slope-area measurement of peak flow; no flow at times in some years.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 150 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Jan. 4	1815	152	2.82	Mar. 5	1930	551	3.73
Jan. 10	1200	*1,730	*5.27	Mar. 11	0715	613	3.83
Jan. 24	2115	394	3.46	Mar. 21	1015	218	3.04
Feb. 14	0800	892	4.26				

Minimum daily, .24 ft³/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	.24	.89	1.1	1.6	31	23	47	18	11	6.2	e3.2	2.5
2	.30	1.2	1.1	1.6	27	23	45	17	12	6.2	e3.1	3.2
3	.43	1.4	1.1	2.2	25	61	43	17	12	6.6	e3.0	2.3
4	.61	1.5	1.1	44	23	36	40	17	11	6.8	2.9	e2.3
5	2.4	1.5	1.1	41	21	236	37	17	11	6.2	1.7	e2.3
6	.72	1.4	1.1	8.8	19	193	36	17	9.7	5.6	1.5	e2.3
7	.53	1.5	1.2	17	18	108	34	17	9.0	5.5	e1.8	e2.3
8	.38	1.7	1.1	81	18	89	33	17	9.1	e5.2	e2.1	e2.2
9	.29	1.7	1.1	113	16	79	30	16	8.9	e4.9	2.4	e2.2
10	.78	4.9	1.1	477	15	75	29	16	8.6	e4.6	2.4	e2.2
11	.80	e3.5	1.1	464	14	368	28	15	8.7	e4.3	2.4	2.2
12	.87	e2.6	1.1	132	14	220	27	15	8.7	e4.0	1.2	2.2
13	.84	e1.9	1.3	67	32	171	27	15	8.4	e3.7	1.3	2.0
14	.65	1.4	1.3	44	361	141	26	15	8.4	e3.3	1.7	1.9
15	.62	1.2	1.3	49	111	115	25	15	12	3.1	1.1	1.9
16	.57	1.2	1.3	33	81	98	38	15	20	3.1	1.2	2.0
17	.62	1.3	1.3	26	67	85	31	14	15	3.0	1.2	2.1
18	.65	1.3	1.3	22	59	75	29	14	11	2.7	1.5	2.0
19	.65	1.1	1.3	19	51	67	27	13	9.4	2.6	1.8	2.1
20	.62	1.2	1.2	17	45	63	25	12	8.2	2.5	1.8	2.1
21	.63	1.2	1.3	15	41	117	24	12	7.5	3.4	1.9	2.2
22	.62	1.1	1.2	14	37	71	22	13	7.1	3.9	1.9	1.6
23	.64	1.1	1.2	21	33	119	21	13	6.8	3.6	1.9	e1.7
24	.60	1.1	1.6	247	30	85	20	14	6.5	3.5	1.8	e1.8
25	.63	1.2	7.1	247	29	72	19	13	6.4	3.5	1.9	e1.8
26	.68	1.4	e3.2	151	28	65	19	13	6.5	3.4	1.7	e1.8
27	.63	1.4	e2.4	100	26	60	19	12	6.8	e3.7	1.5	1.9
28	.61	1.2	2.1	76	24	57	19	12	6.7	e3.6	1.7	1.9
29	.71	1.1	1.9	60	---	56	19	11	6.6	e3.5	1.4	2.4
30	.79	1.1	1.7	48	---	53	19	10	6.4	e3.4	1.4	2.3
31	.77	---	1.7	38	---	50	---	10	---	e3.3	1.7	---
TOTAL	20.88	46.29	49.0	2677.2	1296	3131	858	445	279.4	128.9	58.1	63.7
MEAN	.67	1.54	1.58	86.4	46.3	101	28.6	14.4	9.31	4.16	1.87	2.12
MAX	2.4	4.9	7.1	477	361	368	47	18	20	6.8	3.2	3.2
MIN	.24	.89	1.1	1.6	14	23	19	10	6.4	2.5	1.1	1.6
AC-FT	41	92	97	5310	2570	6210	1700	883	554	256	115	126

e Estimated.

11098000 ARROYO SECO NEAR PASADENA, 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	1.16	3.96	8.94	19.2	32.9	29.0	14.2	6.63	3.40	1.67	1.00	1.05
MAX	8.54	97.4	132	251	344	235	91.5	48.0	19.2	10.7	7.70	8.26
(WY)	1984	1966	1922	1969	1914	1938	1941	1983	1983	1969	1983	1976
MIN	.000	.060	.12	.58	.93	1.16	.69	.50	.35	.042	.000	.000
(WY)	1927	1934	1991	1991	1924	1961	1961	1961	1961	1960	1925	1925

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR				FOR 1995 WATER YEAR				WATER YEARS 1911 - 1995			
ANNUAL TOTAL	1010.65				9053.47							
ANNUAL MEAN	2.77				24.8				10.2			
HIGHEST ANNUAL MEAN									57.8			
LOWEST ANNUAL MEAN									.75			
HIGHEST DAILY MEAN	55 Feb 8				477 Jan 10				3690 Feb 20 1914			
LOWEST DAILY MEAN	.21 Sep 26				.24 Oct 1				.00 Aug 18 1920			
ANNUAL SEVEN-DAY MINIMUM	.23 Sep 25				.62 Oct 15				.00 Aug 18 1920			
INSTANTANEOUS PEAK FLOW					1730 Jan 10				8620 Mar 2 1938			
INSTANTANEOUS PEAK STAGE					5.27 Jan 10				9.42 Mar 2 1938			
ANNUAL RUNOFF (AC-FT)	2000				17960				7360			
10 PERCENT EXCEEDS	5.9				64				16			
50 PERCENT EXCEEDS	1.6				6.2				1.8			
90 PERCENT EXCEEDS	.36				1.1				.20			

11101250 RIO HONDO ABOVE WHITTIER NARROWS DAM, CA

LOCATION.--Lat 34°03'30", long 118°04'15", in Potrero Grande Grant, Los Angeles County, Hydrologic Unit 18070105, on right bank 0.3 mi downstream from Garvey Avenue, 0.4 mi downstream from Rubio Wash, 2.8 mi upstream from axis of Whittier Narrows Dam, and 2.2 mi west of El Monte.

DRAINAGE AREA.--91.2 mi².

PERIOD OF RECORD.--February 1956 to current year.

GAGE.--Water-stage recorder. Concrete trapezoidal channel. Datum of gage is 217.8 ft above sea level.

REMARKS.--No estimated daily discharges. Records fair. Flow regulated by Big Santa Anita, Sawpit, and Eaton flood-control reservoirs, and Sierra Madre, Las Flores, and Rubio debris basins, combined capacity, 2,195 acre-ft. Many diversions upstream from station for domestic use and irrigation. Los Angeles County Department of Public Works diverted 17,050 acre-ft from San Gabriel River below Santa Fe Dam to Rio Hondo during current year. See schematic diagram of San Gabriel and Los Angeles River basins. U.S. Army Corps of Engineers gage height telemeter at station.

COOPERATION.--Records of diversion provided by the Los Angeles County Department of Public Works.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 18,200 ft³/s, Feb. 16, 1980, gage height, 7.35 ft; no flow for some years.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 13,800 ft³/s, Mar. 11, gage height, 6.72 ft; minimum daily, 0.38 ft³/s, Nov. 20.

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	1.0	.91	1.0	.70	157	8.3	163	1.2	5.3	.57	.96	.89
2	.77	2.6	1.5	.63	155	177	169	2.1	2.1	.55	2.8	1.0
3	.82	2.6	.62	121	139	866	100	2.7	1.9	.64	2.1	.93
4	35	.68	198	1310	138	119	6.6	1.4	1.2	.73	1.3	.74
5	101	.84	305	28	141	2600	2.1	1.3	2.3	.71	1.1	1.2
6	1.1	21	383	.98	85	1070	1.9	1.2	6.5	1.3	.78	.97
7	.55	39	385	581	1.9	469	1.9	1.6	8.2	1.4	1.2	.69
8	.67	32	227	726	14	204	3.4	1.5	8.1	1.3	4.3	.72
9	.49	14	175	106	6.9	131	17	18	7.7	.58	3.7	.85
10	.68	164	89	3430	1.9	614	17	63	8.1	.91	2.6	.74
11	1.0	12	57	2080	1.4	2840	2.9	75	7.0	1.7	3.3	.63
12	1.1	5.9	38	732	1.4	635	1.7	97	6.7	1.9	3.1	.66
13	2.3	2.6	104	65	209	244	2.1	103	5.6	1.2	2.4	.82
14	1.6	1.2	19	112	1450	176	1.6	105	5.9	.86	3.6	1.1
15	11	1.3	12	56	244	137	1.5	140	131	.65	5.3	1.1
16	.77	.92	8.7	27	88	106	518	101	881	1.9	5.7	.89
17	1.0	.88	7.1	19	108	72	22	97	34	2.5	7.8	1.2
18	1.1	.85	4.7	17	169	79	312	96	14	3.3	9.3	1.0
19	1.1	.40	2.6	14	154	81	17	97	10	5.7	9.2	.96
20	1.2	.38	1.1	1.2	152	70	8.3	98	12	6.4	9.0	1.6
21	.83	.63	1.1	101	91	716	7.4	96	43	5.0	9.2	1.5
22	1.0	.59	1.1	134	12	157	7.2	95	36	1.0	8.3	1.4
23	1.2	.76	1.0	839	8.7	1100	7.4	92	38	.71	6.8	1.1
24	1.0	.71	174	1690	91	89	5.3	92	28	1.0	.94	.78
25	1.2	.73	79	1250	122	84	1.8	64	20	1.1	.89	.83
26	1.2	14	.91	190	121	77	1.6	3.1	15	4.1	.67	1.4
27	.85	.85	1.0	121	72	51	1.6	2.9	26	7.2	.57	5.4
28	1.1	1.0	1.9	192	6.7	4.8	1.7	2.4	30	6.5	.74	5.8
29	1.2	1.4	1.3	173	---	55	1.3	2.0	15	1.0	.72	5.8
30	.87	.96	.76	149	---	162	1.5	2.1	1.3	.86	.74	5.8
31	.89	---	.81	126	---	162	---	2.7	---	.76	.81	---
TOTAL	175.59	325.69	2343.58	14392.51	3940.9	13356.1	1405.8	1557.2	1410.9	64.03	109.92	48.50
MEAN	5.66	10.9	75.6	464	141	431	46.9	50.2	47.0	2.07	3.55	1.62
MAX	101	164	385	3430	1450	2840	518	140	881	7.2	9.3	5.8
MIN	.49	.38	.76	.63	1.4	4.8	1.3	1.2	1.2	.55	.57	.63
AC-FT	348	646	4650	28550	7820	26490	2790	3090	2800	127	218	96

11101250 RIO HONDO ABOVE WHITTIER NARROWS DAM, 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	16.8	39.6	45.0	95.7	143	104	41.1	23.7	21.5	13.8	9.69	9.65
MAX	253	284	178	834	860	796	236	168	141	187	112	109
WY)	1984	1966	1978	1993	1969	1983	1983	1986	1992	1983	1991	1982
MIN	.59	.087	.49	.95	.34	.31	.47	.41	.13	.26	.035	.097
WY)	1978	1957	1959	1976	1961	1956	1977	1959	1956	1956	1956	1956

SUMMARY STATISTICS FOR 1994 CALENDAR YEAR FOR 1995 WATER YEAR WATER YEARS 1956 - 1995

ANNUAL TOTAL	8025.07	39130.72	
ANNUAL MEAN	22.0	107	46.8
HIGHEST ANNUAL MEAN			187
HIGHEST ANNUAL MEAN			6.01
HIGHEST DAILY MEAN	759	Feb 20	3430
HIGHEST DAILY MEAN	.06	Apr 19	.38
HIGHEST DAILY MEAN	.20	Apr 14	.60
ANNUAL SEVEN-DAY MINIMUM			13800
INSTANTANEOUS PEAK FLOW			6.72
INSTANTANEOUS PEAK STAGE			Mar 11
ANNUAL RUNOFF (AC-FT)	15920	77620	33930
PERCENT EXCEEDS	21	174	92
PERCENT EXCEEDS	1.1	5.3	1.9
PERCENT EXCEEDS	.56	.77	.47

11102300 RIO HONDO BELOW WHITTIER NARROWS DAM, CA

LOCATION.--Lat 34°01'00", long 118°05'15", in Paso de Bartolo Grant, Los Angeles County, Hydrologic Unit 18070105, on right levee 0.2 mi upstream from Beverly Boulevard, 0.4 mi downstream from axis of Whittier Narrows Dam, and 1.0 mi northeast of Montebello.

DRAINAGE AREA.--124 mi².

PERIOD OF RECORD.--October 1966 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 175 ft above sea level, from topographic map.

REMARKS.--Records fair except for discharges below 100 ft³/s and estimated daily discharges, which are poor. Flow regulated by Whittier Narrows Flood-Control Reservoir, capacity, 36,160 acre-ft. There are several small flood-control reservoirs (combined capacities, 1,700 acre-ft) and several small debris basins above Whittier Narrows Dam. Many diversions for domestic use and irrigation. At times flow is diverted from San Gabriel River to Rio Hondo from sites below Santa Fe Dam and above Whittier Narrows Dam. See schematic diagram of San Gabriel and Los Angeles River basins.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 38,800 ft³/s, Jan. 25, 1969, gage height, 13.82 ft, from rating curve extended above 15,000 ft³/s on basis of gate openings at dam at gage heights 12.32 and 13.82 ft; no flow at times in most years.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 38,700 ft³/s, Jan. 10, gage height, 13.80 ft, from floodmarks; 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	69	100	295	52	289	71	199	43	79	14	1.7	2.4
2	67	94	113	51	187	135	209	47	106	12	2.7	.35
3	70	103	166	257	167	861	169	49	119	11	1.2	.36
4	116	108	355	e4000	165	112	59	49	154	10	1.0	.36
5	182	113	506	e1000	172	5460	53	50	162	10	.87	.07
6	30	139	472	e500	135	2900	54	43	175	14	.72	.23
7	40	195	595	e1500	38	4390	54	46	134	15	.32	.08
8	68	189	487	e3000	50	2760	58	48	134	13	2.2	.00
9	47	154	428	e1200	63	2140	81	52	137	12	2.4	.00
10	48	153	341	e9000	45	258	102	110	130	9.7	1.7	.00
11	52	62	255	3280	43	e5000	88	123	121	9.2	1.3	.09
12	55	48	198	1530	41	e333	81	164	130	9.5	1.3	.00
13	57	46	301	142	274	e97	82	169	101	11	1.7	.02
14	54	49	148	100	3030	e87	88	187	38	14	2.4	.00
15	67	129	127	128	451	130	86	205	100	17	2.7	.00
16	59	187	143	61	1410	175	911	178	1710	15	2.7	.00
17	59	196	131	46	144	151	42	175	109	20	3.3	.00
18	31	324	127	36	226	131	387	165	30	11	3.2	.00
19	6.4	335	113	31	220	138	51	160	27	11	4.3	.00
20	6.4	344	111	29	221	108	16	160	29	9.2	4.2	2.3
21	40	200	122	94	168	1840	38	160	88	11	3.6	12
22	47	215	122	147	53	737	41	158	95	7.7	3.6	12
23	49	383	122	750	49	3000	42	153	133	5.4	5.5	13
24	54	394	127	3490	114	455	48	155	138	4.1	3.7	11
25	60	405	161	2900	175	114	44	133	135	1.8	2.9	14
26	67	445	19	1050	231	105	45	49	164	2.5	3.4	15
27	68	376	18	141	218	93	40	118	162	7.3	3.1	25
28	71	371	41	170	99	44	41	52	176	11	3.1	34
29	70	362	57	170	---	62	41	44	109	2.7	3.2	34
30	83	357	62	166	---	186	40	70	17	1.1	2.8	46
31	96	---	52	155	---	194	---	74	---	.43	3.0	---
TOTAL	1888.8	6576	6315	35176	8478	32267	3290	3389	4942	302.63	79.81	222.26
MEAN	60.9	219	204	1135	303	1041	110	109	165	9.76	2.57	7.41
MAX	182	445	595	9000	3030	5460	911	205	1710	20	5.5	46
MIN	6.4	46	18	29	38	44	16	43	17	.43	.32	.00
AC-FT	3750	13040	12530	69770	16820	64000	6530	6720	9800	600	158	441

e Estimated.

11102300 RIO HONDO BELOW WHITTIER NARROWS DAM, 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
EAN	107	144	163	368	531	376	119	113	101	72.8	56.9	74.9
AX	302	362	522	2378	3459	2265	371	289	355	205	244	413
WY)	1984	1992	1992	1993	1969	1983	1983	1994	1992	1993	1991	1991
IN	.001	7.08	10.3	29.2	22.1	15.6	4.25	10.6	.093	1.10	2.57	.13
WY)	1978	1978	1977	1976	1984	1972	1977	1972	1977	1972	1995	1972

UMMARY STATISTICS	FOR 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1967 - 1995	
NNUAL TOTAL	66169.5		102926.50			
NNUAL MEAN	181		282		184	
IGHEST ANNUAL MEAN					638	
OWEST ANNUAL MEAN					40.9	
IGHEST DAILY MEAN	1510	Mar 25	9000	Jan 10	21200	Mar 2 1983
OWEST DAILY MEAN	6.4	Oct 19	.00	Sep 8	.00	Oct 29 1966
NNUAL SEVEN-DAY MINIMUM	19	Feb 26	.00	Sep 12	.00	Sep 10 1969
NSTANTANEOUS PEAK FLOW			38700	Jan 10	38800	Jan 25 1969
NSTANTANEOUS PEAK STAGE			13.80	Jan 10	13.82	Jan 25 1969
NNUAL RUNOFF (AC-FT)	131200		204200		133200	
0 PERCENT EXCEEDS	430		398		260	
0 PERCENT EXCEEDS	110		71		83	
0 PERCENT EXCEEDS	32		2.5		3.2	

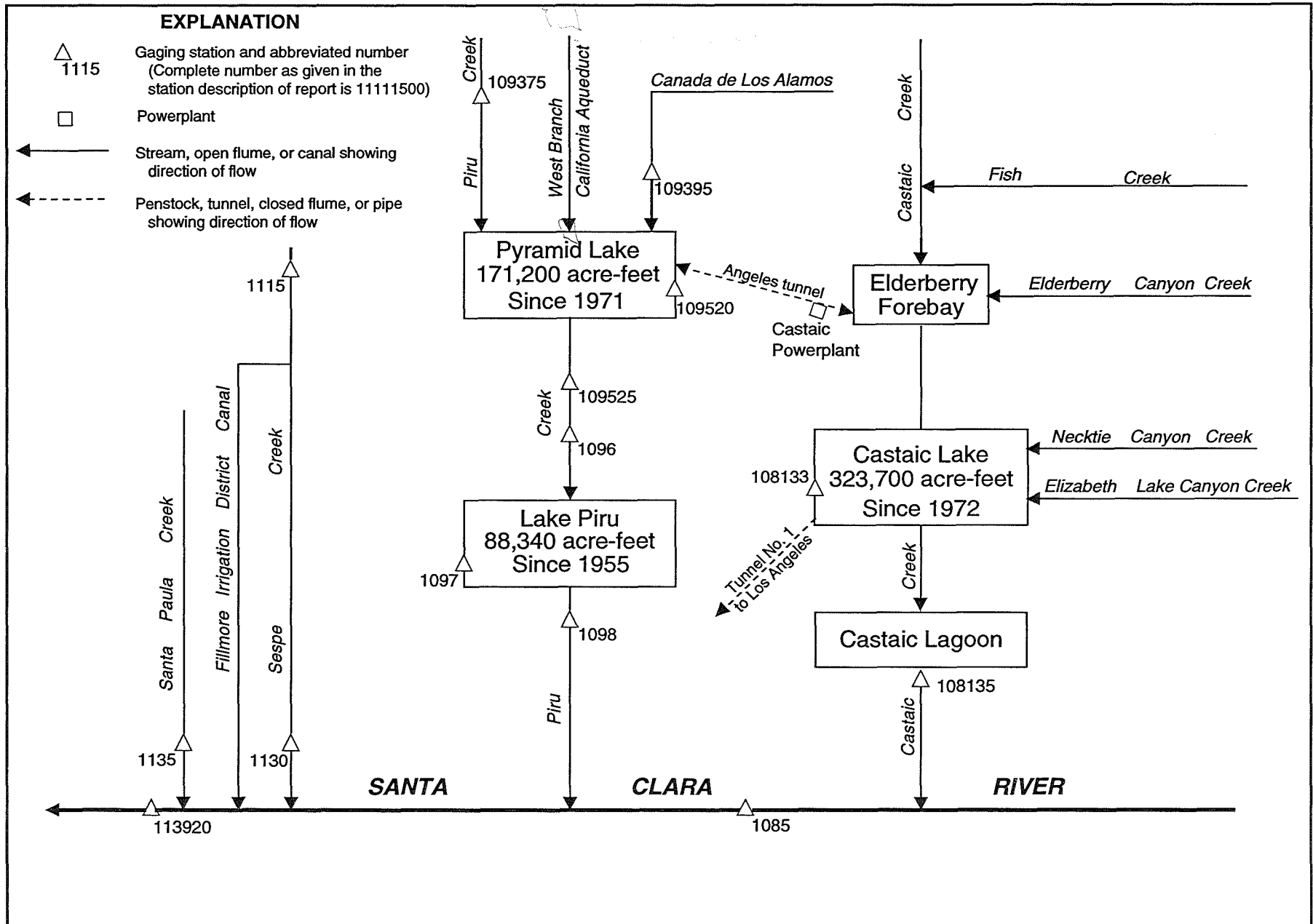


Figure 17. Diversions and storage in Santa Clara River basin.

11108133 CASTAIC LAKE NEAR CASTAIC, CA

LOCATION.--Lat 34°31'18", long 118°36'18", in SW 1/4 NW 1/4 sec.18, T.5 N., R.16 W., Los Angeles County, Hydrologic Unit 18070102, on center of upstream face of Castaic Dam and 3.0 mi north of Castaic.

DRAINAGE AREA.--137 mi², excludes 18.1 mi² non-contributing area in Elizabeth Canyon Creek basin.

PERIOD OF RECORD.--October 1988 to current year. Prior to October 1988 in files of California Department of Water Resources.

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

REMARKS.--Lake is formed by earthfill dam. Storage began April 1972. Dead storage below outlet tower to downstream distribution system, 1,799 acre-ft, elevation, 1,213 ft. Capacity below spillway level, 323,699 acre-ft, elevation 1,515 ft. Lake receives natural inflow from Castaic Creek and its tributaries, and water diverted from Pyramid Lake through Angeles Tunnel. Water is released downstream through Castaic Tunnel No. 1 and to Castaic Lagoon. Records, including extremes, represent total contents at 2400 hours. See schematic diagram of Santa Clara River basin.

COOPERATION.--Records provided by California Department of Water Resources, under the general supervision of the U.S. Geological Survey, in connection with a Federal Energy Regulatory Commission project. Contents not rounded to U.S. Geological Survey standards.

EXTREMES (AT 2400) FOR PERIOD OF RECORD.--Maximum contents, 321,914 acre-ft, Mar. 28, 29, 1993, elevation, 1,514.20 ft; minimum, 147,551 acre-ft, Nov. 8, 1988, elevation, 1,419.08 ft.

EXTREMES (AT 2400) FOR CURRENT YEAR.--Maximum contents, 316,240 acre-ft, June 16, elevation, 1,511.64 ft; minimum, 142,325 acre-ft, Jan. 7, elevation, 1,415.48 ft.

Capacity table (elevation in feet, and contents, in acre-feet)
(Based on data provided by California Department of Water Resources in 1978)

1450	196,414	1490	270,629
1460	213,807	1500	291,186
1470	231,964	1510	310,451
1480	250,894	1520	334,985

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	235313	198203	179117	146061	172058	195904	305199	311674	314171	314589	309775	299979
2	233710	198493	179214	145173	173153	199640	305999	311433	313754	313930	311674	299360
3	232149	198801	177102	144360	174394	201721	303604	313118	313447	313381	310844	298634
4	232650	197537	180219	144085	174507	204177	305869	312921	313074	312833	310102	297974
5	233338	196176	182363	143391	174571	206283	308535	312661	312833	312286	309449	297272
6	233263	194938	181581	142756	174651	207139	311608	312527	312286	311761	308709	296550
7	231908	193570	179879	142325	174746	207209	311127	312330	311761	315909	307970	298954
8	230392	192241	178019	142526	174906	208611	310734	312177	314369	315271	307276	298272
9	228807	193301	176187	142627	176026	211997	310407	311980	313908	314765	306583	297676
10	227026	194871	174587	147933	177794	213558	310211	313667	315403	314215	308296	297059
11	225070	193823	173201	151639	177858	217756	309928	313447	314941	313557	307515	296507
12	223251	192728	173646	152770	177907	228825	311914	313074	314413	316130	306735	295850
13	221326	191637	174013	152770	179570	229120	311652	312724	315469	315491	305999	295172
14	219592	190482	172534	152651	182558	233319	313798	312374	314831	314897	305286	296443
15	217882	189298	170998	152547	182917	240383	313557	312111	315821	314237	304552	297889
16	216354	188102	169375	152398	182819	240516	313513	311870	316240	313667	303841	297357
17	214733	187075	167792	152234	183211	242865	313403	313513	315711	313074	303152	296783
18	213131	185754	166169	152055	183407	246507	315073	313294	315381	312461	302507	296337
19	211254	184324	164569	151832	183538	246660	314677	312921	314853	311805	301928	295807
20	209561	182917	162916	151654	183620	251764	314062	312527	314303	314457	301392	295108
21	207910	181419	161255	151446	183735	256416	315095	312220	315821	313952	300856	296252
22	206266	179764	159589	151238	183866	262579	314413	311870	315271	313118	300321	298038
23	204768	180867	157976	151045	183984	264704	313667	311433	316108	312593	302636	297421
24	203311	180834	156568	151476	184095	271233	312943	313842	315447	311980	302014	296783
25	203311	178923	155242	154626	184144	275767	312220	313579	314853	313513	301285	296210
26	204004	177134	153787	158082	184226	280078	313754	313316	314677	312593	300599	295595
27	202532	175418	152308	160383	185738	281784	313294	313031	314215	311761	299915	296252
28	201101	173599	150971	162962	189781	285880	312855	312768	315134	313425	299360	298293
29	199846	171726	149669	166449	---	291880	312461	312527	315645	312395	298549	297719
30	198647	180235	148388	168810	---	296380	312045	312198	315029	311521	297804	297229
31	197435	---	147127	170383	---	300321	---	312921	---	310647	300706	---
X	235313	198801	182363	170383	189781	300321	315095	313842	316240	316130	311674	299979
N	197435	171726	147127	142325	172058	195904	303604	311433	311761	310647	297804	295108
	1450.60	1440.25	1418.79	1434.09	1446.06	1504.31	1509.73	1510.13	1511.09	1509.80	1504.50	1502.96
	-39187	-17200	-33108	+23256	+19398	+110540	+11724	+876	+2108	-4382	-9941	-3477

L YR 1994 MAX 298720 MIN 147127 b -78619

R YR 1995 MAX 316240 MIN 142325 b +60607

a Elevation, in feet, at end of month.

b Change in contents, in acre-feet.

SANTA CLARA RIVER BASIN

11108135 CASTAIC CREEK RELEASE FLOW BELOW CASTAIC LAKE, NEAR CASTAIC, CA
(Formerly published as Castaic Lagoon Parshall Flume near Castaic)

LOCATION.--Lat 34°29'50", long 118°36'49", in SW 1/4 SE 1/4 sec.24, T.5 N., R.17 W., Los Angeles County, Hydrologic Unit 18070102, at southeast end of lagoon under Lake Hughes Road bridge, 0.5 mi east of Castaic on Lake Hughes Road.

DRAINAGE AREA.--138 mi², excludes 18.1 mi² noncontributing area in Elizabeth Canyon Creek basin.

PERIOD OF RECORD.--October 1976 to September 1978, October 1988 to current year. June 1972 to September 1976, October 1978 to September 1988 in files of California Department of Water Resources.

GAGE.--Water-stage recorder and Parshall flume. Elevation of gage is 1,140 ft above sea level, from topographic map.

REMARKS.--No estimated daily discharges. Station is used to monitor outflow from Castaic Lake. See schematic diagram of Santa Clara River basin.

COOPERATION.--Records provided by California Department of Water Resources, under the 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, 3,000 ft³/s, Feb. 13, 1992; no flow for many days each year.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum discharge, 7,670 ft³/s, Mar. 2, 1983, gage height, 4.10 ft; no flow for many days in each year.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 53 ft³/s, Aug. 1-17; 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	.00	.00	.00	.00	.00	34	53	.00
2	.00	.00	.00	.00	.00	.00	.00	.00	.00	34	53	.00
3	.00	.00	.00	.00	.00	.00	.00	.00	.00	34	53	.00
4	.00	.00	.00	.00	.00	.00	.00	.00	.00	34	53	.00
5	.00	.00	.00	.00	.00	.00	.00	.00	.00	34	53	.00
6	.00	.00	.00	.00	.00	.00	.00	.00	.00	34	53	.00
7	.00	.00	.00	.00	.00	.00	.00	.00	20	34	53	.00
8	.00	.00	.00	.00	.00	.00	.00	.00	35	34	53	.00
9	.00	.00	.00	.00	.00	.00	.00	.00	35	34	53	.00
10	.00	.00	.00	.00	.00	.00	.00	.00	35	34	53	.00
11	.00	.00	.00	.00	.00	.00	.00	.00	35	34	53	.00
12	.00	.00	.00	.00	.00	.00	.00	.00	35	34	53	.00
13	.00	.00	.00	.00	.00	.00	.00	.00	35	34	53	.00
14	.00	.00	.00	.00	.00	.00	.00	.00	35	34	53	.00
15	.00	.00	.00	.00	.00	.00	.00	.00	35	34	53	.00
16	.00	.00	.00	.00	.00	.00	.00	.00	35	34	53	.00
17	.00	.00	.00	.00	.00	.00	.00	.00	35	34	53	.00
18	.00	.00	.00	.00	.00	.00	.00	.00	36	34	26	.00
19	.00	.00	.00	.00	.00	.00	.00	.00	36	34	.00	.00
20	.00	.00	.00	.00	.00	.00	.00	.00	36	34	.00	.00
21	.00	.00	.00	.00	.00	.00	.00	.00	36	34	.00	.00
22	.00	.00	.00	.00	.00	.00	.00	.00	36	34	.00	.00
23	.00	.00	.00	.00	.00	.00	.00	.00	36	34	.00	.00
24	.00	.00	.00	.00	.00	.00	.00	.00	36	34	.00	.00
25	.00	.00	.00	.00	.00	.00	.00	.00	36	35	.00	.00
26	.00	.00	.00	.00	.00	.00	.00	.00	36	35	.00	.00
27	.00	.00	.00	.00	.00	.00	.00	.00	36	35	.00	.00
28	.00	.00	.00	.00	.00	.00	.00	.00	37	35	.00	.00
29	.00	.00	.00	.00	---	.00	.00	.00	37	35	.00	.00
30	.00	.00	.00	.00	---	.00	.00	.00	37	35	.00	.00
31	.00	---	.00	.00	---	.00	---	.00	---	35	.00	---
TOTAL	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	841.00	1061	927.00	0.00
MEAN	.000	.000	.000	.000	.000	.000	.000	.000	28.0	34.2	29.9	.000
MAX	.00	.00	.00	.00	.00	.00	.00	.00	37	35	53	.00
MIN	.00	.00	.00	.00	.00	.00	.00	.00	.00	34	.00	.00
AC-FT	.00	.00	.00	.00	.00	.00	.00	.00	1670	2100	1840	.00

11108135 CASTAIC CREEK RELEASE FLOW BELOW CASTAIC LAKE, NEAR CASTAIC, 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	.000	.000	.68	.38	24.3	25.1	19.0	12.9	24.0	14.9	4.83	3.29
MAX	.000	.000	5.55	3.42	209	216	51.3	72.7	175	94.2	29.9	16.0
(WY)	1977	1977	1994	1994	1992	1993	1992	1978	1978	1978	1995	1978
MIN	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
(WY)	1977	1977	1977	1977	1977	1977	1977	1977	1977	1977	1977	1977

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR	FOR 1995 WATER YEAR	WATER YEARS 1977 - 1995
ANNUAL TOTAL	1654.80	2829.00	
ANNUAL MEAN	4.53	7.75	10.7
HIGHEST ANNUAL MEAN			32.1
LOWEST ANNUAL MEAN			.000
HIGHEST DAILY MEAN	75 Apr 15	53 Aug 1	3000 Feb 13 1992
LOWEST DAILY MEAN	.00 Jan 1	.00 Oct 1	.00 Oct 1 1976
ANNUAL SEVEN-DAY MINIMUM	.00 Jan 1	.00 Oct 1	.00 Oct 1 1976
ANNUAL RUNOFF (AC-FT)	3280	5610	7720
10 PERCENT EXCEEDS	10	35	14
50 PERCENT EXCEEDS	.00	.00	.00
90 PERCENT EXCEEDS	.00	.00	.00

11108500 SANTA CLARA RIVER AT LOS ANGELES-VENTURA COUNTY LINE, CA

LOCATION.--Lat 34°23'59", long 118°42'14", in San Francisco Grant, Ventura County, Hydrologic Unit 18070102, on downstream end of old diversion weir on right bank, on private road 0.2 mi south of Highway 126, 0.8 mi west of Los Angeles-Ventura County line, and 6.4 mi west of intersection of Highway 126 and Interstate 5.

DRAINAGE AREA.--625 mi².

PERIOD OF RECORD.--October 1952 to current year.

CHEMICAL DATA: Water years 1969, 1972-88.

BIOLOGICAL DATA: Water years 1979-80.

WATER TEMPERATURE: Water years 1969-78 (observed), February to September 1980.

SEDIMENT DATA: Water years 1969-88.

REVISED RECORDS.--WDR CA-78-1: Drainage area.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 794.93 ft above sea level.

REMARKS.--Records poor. Base flow affected by pumping from wells along stream for irrigation. Flow partly regulated since January 1972 by Castaic Lake (station 11108133), capacity, 323,700 acre-ft. Imported water from California Water Project stored and released at Castaic Dam. See schematic diagram of Santa Clara River basin.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 68,800 ft³/s, Jan. 25, 1969, gage height, 19.01 ft, from rating curve extended above 9,200 ft³/s on basis of field estimate of peak flow; no flow at times in some years.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 750 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Jan. 4	1730	5,450	8.20	Mar. 05	2230	961	6.08
Jan. 10	1200	*17,100	*10.52	Mar. 11	0030	9,640	9.26
Jan. 24	2130	4,580	7.94	Mar. 23	0745	4,270	7.84
Feb. 14	0830	1,140	6.25				

Minimum daily, 17 ft³/s, Jul. 27, 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	18	34	52	100	80	64	354	77	64	30	45	40
2	18	32	51	106	75	69	305	65	75	28	54	42
3	26	34	49	154	93	100	279	60	63	28	47	36
4	34	34	50	904	68	89	276	58	59	29	34	39
5	35	35	51	e97	69	202	238	55	64	27	30	39
6	34	36	51	68	62	271	254	56	59	26	34	36
7	35	37	51	78	58	78	241	57	63	29	39	36
8	36	37	51	59	61	88	233	55	52	33	42	35
9	34	37	52	90	61	89	229	50	47	35	40	36
10	34	36	53	e6150	66	283	231	53	44	35	36	38
11	32	37	56	e2450	71	700	208	54	43	36	34	38
12	32	36	58	e288	69	513	158	53	38	37	34	40
13	31	38	66	e112	81	363	83	54	44	34	35	33
14	30	39	59	e85	168	326	59	56	43	34	31	33
15	30	38	58	e85	83	351	54	67	45	36	29	36
16	30	37	59	e81	73	396	103	55	45	35	30	30
17	29	36	63	e80	71	355	61	e55	27	30	33	30
18	29	35	65	69	69	370	71	54	29	28	34	28
19	29	35	66	e42	61	383	61	57	37	31	21	24
20	28	e35	67	47	61	295	62	62	37	32	21	24
21	28	e36	71	66	61	355	66	69	34	34	26	26
22	27	e36	72	49	56	247	72	88	34	37	35	24
23	28	e36	73	50	47	823	69	86	33	30	40	22
24	29	e37	80	1710	47	288	70	73	33	26	40	24
25	29	e38	126	1640	51	333	65	68	32	23	38	26
26	30	e41	94	479	53	391	68	74	31	24	37	24
27	31	e47	94	183	58	434	71	66	23	17	35	24
28	31	e49	96	123	57	461	70	71	23	17	40	23
29	31	e51	96	83	---	442	71	75	24	23	38	24
30	33	52	98	87	---	380	79	78	28	30	35	25
31	34	---	99	77	---	374	---	66	---	35	38	---
TOTAL	935	1141	2127	15692	1930	9913	4261	1967	1274	929	1105	935
MEAN	30.2	38.0	68.6	506	68.9	320	142	63.5	42.5	30.0	35.6	31.2
MAX	36	52	126	6150	168	823	354	88	75	37	54	42
MIN	18	32	49	42	47	64	54	50	23	17	21	22
AC-FT	1850	2260	4220	31130	3830	19660	8450	3900	2530	1840	2190	1850

e Estimated.

SANTA CLARA RIVER BASIN

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11108500 SANTA CLARA RIVER AT LOS ANGELES-VENTURA COUNTY LINE, CA--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1953 - 1971, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	3.06	26.9	31.1	85.0	167	50.5	47.7	15.3	7.64	4.30	2.90	2.30
MAX	29.1	267	291	1211	2351	479	419	88.2	44.6	26.4	17.8	16.8
(WY)	1970	1966	1966	1969	1969	1969	1958	1967	1969	1969	1969	1969
MIN	.000	.52	.83	.99	1.16	1.24	.88	.44	.20	.003	.000	.000
(WY)	1961	1965	1961	1965	1965	1965	1961	1961	1961	1961	1960	1960

SUMMARY STATISTICS

WATER YEARS 1953 - 1971

ANNUAL MEAN	36.2	
HIGHEST ANNUAL MEAN	350	1969
LOWEST ANNUAL MEAN	.77	1961
HIGHEST DAILY MEAN	28800	Feb 25 1969
LOWEST DAILY MEAN	.00	Jul 9 1959
ANNUAL SEVEN-DAY MINIMUM	.00	Jul 9 1960
INSTANTANEOUS PEAK FLOW	68800	Jan 25 1969
INSTANTANEOUS PEAK STAGE	19.01	Jan 25 1969
ANNUAL RUNOFF (AC-FT)	26210	
10 PERCENT EXCEEDS	31	
50 PERCENT EXCEEDS	2.0	
90 PERCENT EXCEEDS	.30	

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	26.0	36.2	57.2	124	188	185	71.0	44.5	35.6	24.5	20.5	22.5
MAX	60.5	131	169	768	806	1101	189	168	188	106	45.1	49.6
(WY)	1979	1979	1989	1993	1993	1983	1983	1983	1978	1978	1993	1993
MIN	7.28	8.61	14.6	18.3	15.5	18.2	13.4	10.7	7.84	3.63	2.44	7.59
(WY)	1974	1978	1977	1975	1977	1977	1977	1976	1976	1976	1976	1977

SUMMARY STATISTICS

FOR 1994 CALENDAR YEAR

FOR 1995 WATER YEAR

WATER YEARS 1972 - 1995

ANNUAL TOTAL	16153	42209	
ANNUAL MEAN	44.3	116	69.0
HIGHEST ANNUAL MEAN			207
LOWEST ANNUAL MEAN			14.4
HIGHEST DAILY MEAN	126	Dec 25	6150
LOWEST DAILY MEAN	17	Sep 11	17
ANNUAL SEVEN-DAY MINIMUM	18	Sep 7	23
INSTANTANEOUS PEAK FLOW			17100
INSTANTANEOUS PEAK STAGE			10.52
ANNUAL RUNOFF (AC-FT)	32040	83720	49960
10 PERCENT EXCEEDS	69	239	97
50 PERCENT EXCEEDS	42	51	29
90 PERCENT EXCEEDS	22	28	12

SANTA CLARA RIVER BASIN

11109375 PIRU CREEK BELOW BUCK CREEK, NEAR PYRAMID LAKE, CA

LOCATION.--Lat 34°39'58", long 118°49'24", in SE 1/4 SE 1/4 sec.30, T.7 N., R.18 W., Ventura County, Hydrologic Unit 18070102, on left bank 300 ft downstream from the confluence of Piru Creek and Buck Creek and 2.3 mi southeast of U.S. Forest Service Hardluck Campground.

DRAINAGE AREA.--198 mi².

PERIOD OF RECORD.--October 1976 to September 1978, October 1988 to current year. February 1975 to September 1976, October 1978 to September 1988 in files of California Department of Water Resources.

GAGE.--Water-stage recorder. Elevation of gage is 2,700 ft above sea level, from topographic map.

REMARKS.--No estimated daily discharges. Station is used to monitor flow into Pyramid Lake. See schematic diagram of Santa Clara River basin.

COOPERATION.--Records were provided by California Department of Water Resources, under the general supervision of the U.S. Geological Survey, in connection with a Federal Energy Regulatory Commission project.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 19,000 ft³/s, estimated, Mar. 4, 1978, gage height, 10.08 ft, maximum gage height, 12.06 ft, Feb. 12, 1992; no flow for many days in most years.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 8,110 ft³/s, Jan. 10, gage height, 9.55 ft; minimum daily, 4.9 ft³/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	5.0	7.1	8.9	10	436	111	243	102	64	28	15	10
2	4.9	7.1	8.9	10	410	142	237	100	69	27	15	10
3	5.0	7.3	9.0	51	349	188	227	97	63	26	15	10
4	6.4	7.5	9.1	177	296	157	218	95	59	25	14	10
5	14	7.6	9.1	139	264	295	212	93	57	24	14	10
6	9.1	7.6	9.1	44	239	442	205	90	56	23	14	9.9
7	7.4	7.6	9.1	152	219	244	196	89	55	23	13	9.9
8	6.6	7.8	9.0	163	204	188	190	87	57	22	13	10
9	6.0	7.8	8.6	488	186	170	180	84	53	21	13	10
10	5.7	13	8.6	3430	167	926	173	82	51	21	12	10
11	5.6	10	9.1	896	156	2580	166	80	48	20	12	10
12	5.7	9.3	9.2	411	146	839	161	78	45	20	12	9.9
13	5.9	8.7	9.3	281	141	584	155	78	43	21	12	9.3
14	6.1	8.4	9.3	212	563	499	151	80	42	20	12	8.8
15	6.4	8.3	9.3	195	373	433	146	180	45	20	12	9.1
16	6.5	8.4	9.3	150	254	377	161	183	54	20	12	9.2
17	6.6	8.5	9.2	117	204	335	148	133	54	23	12	9.5
18	6.7	8.5	9.2	94	178	308	147	114	46	21	12	9.7
19	6.8	8.6	9.2	82	162	289	141	102	42	20	12	9.6
20	6.9	8.6	9.3	97	154	277	129	93	40	20	12	9.6
21	6.9	8.6	9.2	103	151	360	120	88	38	19	12	9.7
22	6.9	8.7	9.2	92	146	317	114	86	36	19	12	9.8
23	7.0	8.7	9.3	287	138	443	109	82	35	18	12	9.8
24	6.9	8.7	19	2040	132	390	106	81	33	18	11	9.7
25	6.9	8.7	14	2790	134	354	104	79	31	17	11	9.9
26	6.9	8.8	11	847	126	340	102	74	31	16	11	10
27	6.9	8.9	11	540	119	322	102	72	32	16	11	10
28	6.9	8.9	11	460	117	299	101	70	30	16	11	10
29	7.0	8.9	11	411	---	284	100	67	29	15	11	11
30	7.1	8.9	11	375	---	267	102	67	29	15	11	11
31	7.1	---	11	383	---	251	---	65	---	15	11	---
TOTAL	209.8	255.5	308.5	15527	6164	13011	4646	2871	1367	629	382	295.4
MEAN	6.77	8.52	9.95	501	220	420	155	92.6	45.6	20.3	12.3	9.85
MAX	14	13	19	3430	563	2580	243	183	69	28	15	11
MIN	4.9	7.1	8.6	10	117	111	100	65	29	15	11	8.8
AC-FT	416	507	612	30800	12230	25810	9220	5690	2710	1250	758	586

11109375 PIRU CREEK BELOW BUCK CREEK, NEAR PYRAMID LAKE, 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	3.99	5.29	13.2	111	236	222	107	45.3	19.5	9.24	5.63	5.54
MAX	14.9	17.1	33.1	501	679	674	235	93.5	49.4	24.7	16.1	13.8
(WY)	1994	1994	1978	1995	1993	1978	1978	1978	1993	1993	1993	1993
MIN	.099	1.16	1.62	2.28	5.36	5.31	2.67	1.21	.46	.001	.000	.000
(WY)	1978	1978	1991	1991	1990	1990	1990	1990	1990	1990	1989	1990

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1977 - 1995	
ANNUAL TOTAL	6953.9		45666.2			
ANNUAL MEAN	19.1		125		64.4	
HIGHEST ANNUAL MEAN					153	
LOWEST ANNUAL MEAN					2.45	
HIGHEST DAILY MEAN	253	Feb 8	3430	Jan 10	7010	Feb 9 1978
LOWEST DAILY MEAN	3.4	Aug 16	4.9	Oct 2	.00	Sep 6 1977
ANNUAL SEVEN-DAY MINIMUM	3.7	Aug 13	5.9	Oct 9	.00	Sep 6 1977
INSTANTANEOUS PEAK FLOW			8110	Jan 10	19000	Mar 4 1978
INSTANTANEOUS PEAK STAGE			9.55	Jan 10	10.08	Mar 4 1978
ANNUAL RUNOFF (AC-FT)	13790		90580		46630	
10 PERCENT EXCEEDS	43		295		163	
50 PERCENT EXCEEDS	9.2		25		8.7	
90 PERCENT EXCEEDS	4.0		7.7		.41	

11109395 CANADA DE LOS ALAMOS ABOVE PYRAMID LAKE, CA

LOCATION.--Lat 34°41'31", long 118°47'25", in SW 1/4 SE 1/4 sec.16, T.7 N., R.18 W., Los Angeles County, Hydrologic Unit 18070102, on right bank 1.1 mi south of Hungry Valley Road off-ramp from Interstate Highway 5 and 0.4 mi above Pyramid Landing on Pyramid Lake.

DRAINAGE AREA.--61.9 mi².

PERIOD OF RECORD.--October 1976 to September 1978, October 1988 to current year. March 1965 to September 1976, October 1978 to September 1988 in files of California Department of Water Resources.

GAGE.--Water-stage recorder. Elevation of gage is 2,800 ft above sea level, from topographic map.

REMARKS.--No estimated daily discharges. Station is used to monitor natural inflow to Pyramid Lake. See schematic diagram of Santa Clara River basin.

COOPERATION.--Records provided by California Department of Water Resources, under the general supervision of the U.S. Geological Survey, in connection with a Federal Energy Regulatory Commission project.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,990 ft³/s, Feb. 10, 1978, gage height, 5.10 ft; minimum daily, 0.30 ft³/s, May 10, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 475 ft³/s, Mar. 11, gage height, 4.16 ft; minimum daily, 1.4 ft³/s, 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	1.9	2.5	2.6	3.2	4.0	3.5	3.7	3.9	2.8	2.0	1.5	2.0
2	1.9	2.7	2.6	3.1	4.2	4.3	4.1	3.7	3.3	1.9	1.6	2.0
3	2.4	2.8	2.6	8.7	4.2	4.3	4.2	3.5	3.2	1.8	1.5	2.0
4	4.1	2.8	2.6	46	4.1	4.1	4.1	3.6	2.8	1.8	1.6	1.9
5	3.6	2.8	2.6	13	4.5	8.2	4.2	4.5	2.6	1.6	1.6	1.9
6	2.5	2.6	2.8	5.5	4.6	7.4	4.6	4.3	2.4	1.4	1.5	1.9
7	2.2	2.6	2.8	11	4.0	4.2	4.4	3.8	2.8	1.4	1.5	1.9
8	2.0	2.6	2.8	7.2	3.6	3.4	4.3	3.8	3.1	1.5	1.4	1.9
9	2.0	2.6	2.8	11	3.3	3.2	3.8	3.5	3.1	1.5	1.4	1.9
10	1.9	4.4	2.8	104	3.5	48	3.8	3.1	2.8	1.5	1.4	1.9
11	1.9	3.0	2.8	11	3.6	64	3.6	3.6	2.5	1.5	1.4	1.9
12	2.0	3.0	2.8	6.7	3.6	5.7	3.9	3.3	3.0	1.6	1.4	2.2
13	2.1	2.9	2.8	4.2	3.6	3.4	4.0	3.5	3.2	1.7	1.4	2.1
14	2.2	2.8	2.8	3.5	7.0	2.9	4.1	3.5	3.4	1.6	1.6	2.0
15	2.3	2.8	2.8	3.5	6.0	2.6	4.3	8.8	3.8	1.7	1.5	2.0
16	2.2	2.9	3.0	4.1	4.2	2.4	5.8	5.3	4.0	2.0	1.7	1.9
17	2.3	2.6	3.0	5.7	3.5	2.0	6.7	3.7	4.5	2.4	1.7	2.0
18	2.3	2.6	3.0	2.8	3.0	1.8	7.9	2.8	3.9	2.2	1.8	2.0
19	2.3	2.6	3.0	2.2	3.4	1.7	9.7	2.4	3.7	1.6	1.7	1.9
20	2.3	2.7	3.0	2.4	3.5	1.8	5.3	2.5	3.2	1.5	1.7	1.8
21	2.3	2.8	3.0	4.0	3.4	3.2	5.0	2.6	2.8	1.7	1.9	1.8
22	2.4	2.8	3.0	2.3	3.4	3.2	4.3	3.0	2.7	1.7	1.9	1.8
23	2.4	2.8	3.0	24	3.3	18	4.0	3.3	2.6	1.7	1.8	1.9
24	2.3	2.8	4.7	181	3.5	2.6	3.8	3.5	2.7	1.6	1.7	1.9
25	2.4	2.8	4.6	176	3.6	2.2	3.6	3.7	2.7	1.6	1.7	1.8
26	2.4	2.8	3.2	10	3.5	2.2	3.7	3.2	2.6	1.6	1.7	2.1
27	2.3	2.6	3.2	6.9	3.5	2.3	3.7	3.1	2.4	1.5	1.6	2.2
28	2.5	2.6	3.2	5.7	3.6	2.6	3.8	3.0	2.3	1.5	1.8	2.0
29	2.5	2.6	3.2	5.1	---	2.8	4.0	2.6	2.2	1.4	1.9	2.1
30	2.5	2.6	3.2	4.9	---	3.0	4.0	2.5	2.1	1.5	1.9	2.2
31	2.4	---	3.2	4.5	---	3.3	---	2.4	---	1.5	2.0	---
TOTAL	72.8	83.5	93.5	683.2	109.2	224.3	136.4	110.0	89.2	51.5	50.8	58.9
MEAN	2.35	2.78	3.02	22.0	3.90	7.24	4.55	3.55	2.97	1.66	1.64	1.96
MAX	4.1	4.4	4.7	181	7.0	64	9.7	8.8	4.5	2.4	2.0	2.2
MIN	1.9	2.5	2.6	2.2	3.0	1.7	3.6	2.4	2.1	1.4	1.4	1.8
AC-FT	144	166	185	1360	217	445	271	218	177	102	101	117

11109395 CANADA DE LOS ALAMOS ABOVE PYRAMID LAKE, 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	1.96	2.37	2.86	5.87	14.2	9.28	2.77	2.19	1.85	1.54	1.52	1.63
MAX	2.35	2.86	3.65	22.0	64.3	40.5	4.55	3.55	2.97	2.00	1.73	1.96
(WY)	1994	1994	1993	1995	1978	1978	1995	1995	1995	1994	1993	1995
MIN	1.40	1.56	1.93	2.38	1.80	1.80	1.50	.83	1.18	.97	1.32	1.27
(WY)	1977	1978	1977	1978	1977	1977	1977	1977	1978	1977	1977	1977

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1977 - 1995	
ANNUAL TOTAL	1031.18		1763.3			
ANNUAL MEAN	2.83		4.83		3.95	
HIGHEST ANNUAL MEAN					9.72	1978
LOWEST ANNUAL MEAN					1.54	1977
HIGHEST DAILY MEAN	44	Feb 20	181	Jan 24	1220	Feb 10 1978
LOWEST DAILY MEAN	.98	Jun 3	1.4	Jul 6	.30	May 10 1977
ANNUAL SEVEN-DAY MINIMUM	1.3	Jun 2	1.4	Aug 7	.36	May 10 1977
INSTANTANEOUS PEAK FLOW			475	Mar 11	2990	Feb 10 1978
INSTANTANEOUS PEAK STAGE			4.16	Mar 11	5.10	Feb 10 1978
ANNUAL RUNOFF (AC-FT)	2050		3500		2860	
10 PERCENT EXCEEDS	3.5		4.6		3.5	
50 PERCENT EXCEEDS	2.4		2.8		2.1	
90 PERCENT EXCEEDS	1.5		1.7		1.3	

11109520 PYRAMID LAKE NEAR GORMAN, CA

LOCATION.--Lat 34°38'41", long 118°45'47", in NW 1/4 NW 1/4 sec.2, T.6 N., R.18 W., Los Angeles County, Hydrologic Unit 18070102, on center of upstream face of Pyramid Dam and 11.5 mi southeast of Gorman.
DRAINAGE AREA.--295 mi².

PERIOD OF RECORD.--October 1988 to current year. Prior to October 1988 in files of California Department of Water Resources.

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

REMARKS.--Reservoir is formed by earthfill dam. Storage began August 1974. Dead storage below outlet to Angeles Tunnel, 5,720 acre-ft, elevation 2,345 ft, included in contents. Capacity below invert of radial gate, 133,600 acre-ft, elevation 2,547.72 ft; below top of radial gate, 169,901 acre-ft, elevation, 2,578 ft; below spillway level, 171,196 acre-ft, elevation, 2,579 ft. Lake receives natural flow from Piru Creek, Canada de Los Alamos, and imported water from West Branch California Aqueduct. Water is released through the Angeles Tunnel to Castaic Powerplant and during periods of low electricity demand water from Elderberry Forebay is pumped back to Pyramid Lake. Water is also released to Piru Creek to satisfy minimum fishwater release requirements (see station 11109525). Records, including extremes, represent contents at 2400 hours.

COOPERATION.--Records provided by California Department of Water Resources, under general supervision of the U.S. Geological Survey, in connection with a Federal Energy Regulatory Commission project. Contents not rounded to U.S. Geological Survey standards. See schematic diagram of Santa Clara River basin.

EXTREMES (at 2400) FOR PERIOD OF RECORD.--Maximum contents, 170,043 acre-ft, Nov. 5, 1989; elevation, 2,578.11 ft; minimum, 137,883 acre-ft, Nov. 26, 1991, elevation, 2,551.53 ft.

EXTREMES (at 2400) FOR CURRENT YEAR.--Maximum contents, 169,695 acre-ft, Jan. 26, elevation, 2,577.84 ft; minimum, 155,976 acre-ft, Aug. 1, elevation, 2,556.91 ft.

Capacity table (elevation in feet, and contents, in acre-feet)
(Based on data provided by California Department of Water Resources in 1978)

2545	130,601	2565	153,364
2550	136,154	2570	159,778
2555	141,850	2575	166,057
2560	147,680	2580	172,497

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	160150	159629	156294	159468	162484	163929	167409	159852	164725	161383	155976	163275
2	162258	158110	156587	159481	163149	163350	168498	160523	165168	163501	156196	163061
3	161995	156648	157605	159567	164058	163866	167600	160287	165650	163111	156086	165016
4	161370	156257	159023	159382	164725	165004	166770	160237	166477	167115	157102	167140
5	160909	157753	159023	160287	165549	166515	164245	160175	165473	165904	157728	164776
6	160473	160747	159023	160324	165790	164801	162484	160399	165004	163640	159468	165790
7	160573	161171	159010	160560	165244	165358	162045	160287	164523	160076	159766	166260
8	161395	161958	159048	160809	165447	163854	162170	161345	164056	160672	157950	165105
9	162747	162622	159109	161670	165599	161096	162709	161658	161970	161620	158233	165739
10	161983	163677	158949	164056	165942	161233	163212	162208	163237	159877	160225	167000
11	162133	164056	158973	162421	165714	165701	163363	161958	162183	161009	160523	168215
12	162258	164966	159208	162083	165460	161483	162760	161783	163375	161733	159803	164814
13	162246	166146	159159	161808	165485	160984	162960	161620	163602	161146	163854	163854
14	161995	166146	159270	161608	166592	160299	163652	161695	163879	162371	165815	163791
15	161758	165688	158998	161608	166834	160722	163980	162246	163803	162709	166706	164157
16	164169	165092	159060	161745	166273	162158	163803	161983	162898	162923	166757	165092
17	164966	164637	158986	161908	166197	163187	163829	162873	164283	161096	166796	167933
18	165219	163802	159072	161945	165916	166108	163980	163048	167089	160175	165752	169115
19	164460	162873	159072	162058	165587	169038	163665	162873	165726	160660	165498	167255
20	163841	162070	159221	162183	165473	166426	163073	163237	164346	160399	166451	165536
21	163551	161383	159196	163174	165029	164890	162208	163300	164207	160946	166273	165739
22	165650	160697	159048	164194	164712	163187	161883	163350	163879	161358	165282	165042
23	166146	160039	159122	165498	164371	161920	161933	164005	160760	161908	165257	165663
24	167626	160560	159171	167511	163866	159877	161183	164283	162358	161958	165828	166757
25	166898	159865	159258	169089	164144	161545	161520	163791	165663	161370	165917	167613
26	165435	158529	159443	169695	164371	164510	161283	164194	165194	160498	164649	167524
27	163627	156661	159357	165879	163942	165473	161370	164573	161485	159840	165726	167281
28	162923	157519	159419	163426	164056	166375	161171	165270	159864	160498	162546	167332
29	162246	157531	159431	160934	---	167626	160598	165308	159766	160088	159431	167869
30	162145	157728	159443	160523	---	167562	160088	163577	159406	163778	159010	167805
31	160809	---	159505	160959	---	167115	---	161258	---	159989	162734	---
MAX	167626	166146	159505	169695	166834	169038	168498	165308	167089	167115	166796	169115
MIN	160150	156257	156294	159382	162484	159877	160088	159852	159406	159840	155976	163061
a	2570.83	2568.34	2569.78	2570.95	2573.42	2575.83	2570.25	2571.19	2569.70	2570.17	2572.37	2576.37
b	+783	-3081	+1777	+1454	+3097	+3059	+7027	+1170	-1852	+583	+2745	+5071

CAL YR 1994 MAX 169372 MIN 150041 b -794
WTR YR 1995 MAX 169695 MIN 155976 b +7779

a Elevation, in feet, at end of month.
b Change in contents, in acre-feet.

11109525 PIRU CREEK BELOW PYRAMID LAKE, NEAR GORMAN, CA

LOCATION.--Lat 34°38'30", long 118°45'49", in SW 1/4 NW 1/4 sec.2, T.61 N., R.18 W., Los Angeles County, Hydrologic Unit 18070102, at downstream base of dam and 11.7 mi southeast of Gorman.

DRAINAGE AREA.--295 mi².

PERIOD OF RECORD.--October 1988 to current year. Prior to October 1988 in files of California Department of Water Resources.

GAGE.--Flow meters with totalizer. Elevation of gage is 2,200 ft above sea level, from topographic map.

REMARKS.--No estimated daily discharges. Flow regulated beginning December 1971 by Pyramid Lake, capacity, 171,196 acre-ft. Station is operated to satisfy fishwater release requirements as prescribed by the Federal Energy Regulatory Commission. See schematic diagram of Santa Clara River basin.

COOPERATION.--Records provided by California Department of Water Resources, under the 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, 3,990 ft³/s, Feb. 26, 1993; minimum daily, 5.0 ft³/s, many days in most years.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 3,670 ft³/s, Jan. 10; minimum daily, 5.0 ft³/s, 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	20	20	6.0	5.0	5.0	5.0	5.0	24	24	25	25	25
2	20	20	5.0	5.0	5.0	5.0	5.0	24	24	25	25	25
3	20	20	5.0	5.0	5.0	5.0	5.0	24	24	25	25	25
4	20	20	5.0	5.0	5.0	5.0	5.0	24	24	25	25	25
5	20	20	5.0	5.0	5.0	5.0	5.0	24	24	25	25	25
6	20	20	5.0	5.0	5.0	5.0	5.0	24	24	25	25	25
7	20	20	5.0	5.0	5.0	5.0	5.0	24	25	25	25	25
8	20	20	5.0	5.0	5.0	5.0	6.0	25	25	25	25	25
9	20	20	5.0	1000	5.0	5.0	6.0	25	25	25	25	25
10	20	20	5.0	3670	5.0	5.0	6.0	25	25	25	25	25
11	20	20	5.0	1440	5.0	5.0	6.0	25	25	25	25	25
12	20	20	5.0	1440	5.0	5.0	6.0	25	25	25	25	25
13	20	20	5.0	500	5.0	5.0	7.0	25	25	25	25	25
14	20	20	5.0	275	5.0	5.0	7.0	25	25	25	25	25
15	20	20	5.0	200	5.0	5.0	7.0	25	25	25	25	25
16	20	19	5.0	50	5.0	5.0	9.0	25	25	25	25	25
17	20	19	5.0	50	5.0	5.0	12	25	25	25	25	25
18	20	19	5.0	50	5.0	5.0	12	25	25	25	25	25
19	20	19	5.0	50	5.0	5.0	12	25	25	25	25	25
20	20	19	5.0	50	5.0	5.0	12	25	25	25	25	25
21	20	19	5.0	50	5.0	5.0	12	25	25	25	25	25
22	20	19	5.0	50	5.0	5.0	12	25	25	25	25	25
23	20	19	5.0	450	5.0	5.0	12	25	25	25	25	25
24	19	19	5.0	2650	5.0	5.0	12	25	25	25	25	25
25	19	19	5.0	742	5.0	5.0	12	25	25	25	25	25
26	19	19	5.0	300	6.0	5.0	12	25	25	25	25	25
27	19	19	5.0	5.0	6.0	5.0	12	25	25	25	25	24
28	19	19	5.0	5.0	6.0	5.0	12	25	25	25	25	24
29	19	19	5.0	5.0	---	5.0	13	25	25	25	25	24
30	19	19	5.0	5.0	---	6.0	18	25	25	25	24	24
31	19	---	5.0	5.0	---	7.0	---	25	---	26	24	---
TOTAL	612	585	156.0	13082.0	143.0	158.0	270.0	768	744	776	773	746
MEAN	19.7	19.5	5.03	422	5.11	5.10	9.00	24.8	24.8	25.0	24.9	24.9
MAX	20	20	6.0	3670	6.0	7.0	18	25	25	26	25	25
MIN	19	19	5.0	5.0	5.0	5.0	5.0	24	24	25	24	24
AC-FT	1210	1160	309	25950	284	313	536	1520	1480	1540	1530	1480

11109525 PIRU CREEK BELOW PYRAMID LAKE, NEAR GORMAN, 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	20.6	28.4	20.6	123	147	92.4	43.3	33.6	24.1	22.8	20.3	20.1
MAX	45.5	83.8	37.4	422	491	242	132	97.3	41.0	32.9	25.8	25.6
(WY)	1993	1993	1991	1995	1992	1992	1993	1991	1993	1993	1993	1993
MIN	11.5	7.40	5.03	5.00	5.00	5.10	5.57	10.6	12.5	13.6	12.9	13.0
(WY)	1990	1989	1995	1991	1991	1995	1992	1990	1990	1989	1989	1990

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR				FOR 1995 WATER YEAR				WATER YEARS 1989 - 1995			
ANNUAL TOTAL	11333.0				18813.0							
ANNUAL MEAN	31.0				51.5				49.1			
HIGHEST ANNUAL MEAN									119			
LOWEST ANNUAL MEAN									10.8			
HIGHEST DAILY MEAN	150				Feb 8				3670			
LOWEST DAILY MEAN	5.0				Dec 2				Jan 10			
ANNUAL SEVEN-DAY MINIMUM	5.0				Dec 2				3990			
ANNUAL RUNOFF (AC-FT)	22480				5.0				Feb 26 1993			
10 PERCENT EXCEEDS	60				5.0				5.0			
50 PERCENT EXCEEDS	20				Dec 2				5.0			
90 PERCENT EXCEEDS	15				5.0				Nov 15 1988			
									Nov 15 1988			
									35600			
									60			
									20			
									5.0			

11109600 PIRU CREEK ABOVE LAKE PIRU, CA

LOCATION.--Lat 34°31'23", long 118°45'22", in NE 1/4 NW 1/4 sec.15, T.5 N., R.18 W., Ventura County, Hydrologic Unit 18070102, on left bank near Blue Point, 1.3 mi downstream from Agua Blanca Creek, 4.3 mi upstream from Santa Felicia Dam, 8.0 mi northeast of Piru, and 15 mi downstream from Pyramid Dam.

DRAINAGE AREA.--372 mi².

PERIOD OF RECORD.--October 1955 to current year.

CHEMICAL DATA: Water years 1972-80.

REVISED RECORDS.--WSP 1928: Drainage area.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 1,058.55 ft above sea level (levels by U.S. Forest Service). Prior to Dec. 15, 1972, at site 0.3 mi upstream at different datum.

REMARKS.--Records fair except for estimated daily discharges, which are poor. Flow regulated beginning December 1971 by Pyramid Lake (station 11109520). Imported water from the California Water Project stored and released at Pyramid Dam. See schematic diagram of Santa Clara River basin.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 31,200 ft³/s, Feb. 25, 1969, gage height, 18.6 ft, site and datum then in use, from floodmarks, from rating curve extended above 4,000 ft³/s on basis of slope-area measurement at gage height 12.2 ft and inflow-outflow records for Lake Piru; no flow at times in some years.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Mar. 2, 1938, reached a discharge of 35,000 ft³/s, and is the greatest since that date.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 18,800 ft³/s, Jan. 10, gage height, 11.05 ft; minimum daily, 10 ft³/s, Dec. 8-11, 16-23.

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	20	24	20	12	641	e74	155	88	54	e49	e34	28
2	22	25	17	12	479	e106	157	89	58	e49	e33	28
3	23	27	e16	37	375	e140	144	88	55	e48	e33	27
4	29	27	e14	224	335	e110	136	87	52	e48	33	27
5	48	27	e12	116	300	e500	131	87	49	e47	33	27
6	29	27	e11	47	278	e300	126	85	47	e47	32	27
7	25	27	11	91	259	e220	120	83	48	e46	33	26
8	24	28	10	140	248	e170	114	82	50	e46	33	26
9	24	26	10	524	229	116	110	79	48	e45	33	26
10	24	34	10	7700	210	483	105	77	46	e45	33	26
11	24	31	10	2390	196	1130	104	74	44	e44	34	26
12	25	28	11	1070	187	668	99	73	42	e44	33	25
13	25	28	12	614	181	533	107	73	43	e43	31	24
14	25	27	12	e400	628	425	109	73	43	e43	32	24
15	25	27	12	e300	310	372	93	175	48	e42	32	23
16	24	27	10	e220	240	318	112	107	57	e42	33	24
17	24	27	10	e180	e200	275	104	82	e56	e41	33	25
18	24	27	10	e150	e180	247	104	75	e56	e41	33	24
19	24	27	10	e120	e170	221	99	71	e55	e40	32	24
20	24	27	10	e95	e140	208	93	67	e55	e40	31	24
21	24	27	10	e80	e130	267	88	67	e54	e39	32	24
22	24	27	10	e70	e120	452	83	67	e54	e39	32	24
23	25	27	10	e700	e100	347	81	66	e53	e38	32	24
24	25	27	13	e6350	e95	287	80	67	e53	e38	30	24
25	25	28	24	6750	e90	259	80	66	e52	e37	30	24
26	25	28	15	2530	e85	237	81	59	e52	e37	30	26
27	24	27	13	1340	e80	223	80	57	e51	e36	30	26
28	24	28	13	1070	e77	211	81	55	e51	e36	29	27
29	24	25	13	919	---	193	84	52	e50	e35	29	28
30	24	22	12	807	---	177	87	53	e50	e35	28	27
31	24	---	12	715	---	166	---	53	---	e34	27	---
TOTAL	780	814	383	35773	6563	9435	3147	2377	1526	1294	983	765
MEAN	25.2	27.1	12.4	1154	234	304	105	76.7	50.9	41.7	31.7	25.5
MAX	48	34	24	7700	641	1130	157	175	58	49	34	28
MIN	20	22	10	12	77	74	80	52	42	34	27	23
AC-FT	1550	1610	760	70960	13020	18710	6240	4710	3030	2570	1950	1520

e Estimated.

11109600 PIRU CREEK ABOVE LAKE PIRU, CA--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1956 - 1971, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	2.14	54.7	52.8	106	229	100	102	33.7	12.6	4.22	2.00	1.86
MAX	11.9	503	291	992	1657	569	741	165	53.4	22.4	11.3	9.63
(WY)	1970	1966	1966	1969	1969	1969	1958	1967	1969	1969	1969	1969
MIN	.000	.34	2.91	9.24	7.50	7.26	3.96	1.34	.12	.000	.000	.000
(WY)	1956	1965	1957	1965	1965	1961	1961	1961	1961	1960	1957	1956

SUMMARY STATISTICS

WATER YEARS 1956 - 1971

ANNUAL MEAN	57.2
HIGHEST ANNUAL MEAN	294 1969
LOWEST ANNUAL MEAN	5.66 1961
HIGHEST DAILY MEAN	15600 Feb 25 1969
LOWEST DAILY MEAN	.00 Oct 1 1955
ANNUAL SEVEN-DAY MINIMUM	.00 Oct 1 1955
INSTANTANEOUS PEAK FLOW	31200 Feb 25 1969
INSTANTANEOUS PEAK STAGE	18.6 Feb 25 1969
ANNUAL RUNOFF (AC-FT)	41470
10 PERCENT EXCEEDS	84
50 PERCENT EXCEEDS	8.2
90 PERCENT EXCEEDS	.00

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	13.6	18.5	35.7	125	220	206	86.0	51.8	29.7	19.6	15.8	13.9
MAX	51.8	92.4	180	1154	855	1126	289	204	93.7	46.8	37.4	29.3
(WY)	1993	1993	1984	1995	1992	1983	1983	1983	1978	1979	1978	1978
MIN	2.17	4.09	4.05	5.64	13.9	11.2	6.11	5.46	3.84	6.32	.80	.16
(WY)	1973	1978	1990	1981	1987	1977	1977	1972	1976	1972	1972	1972

SUMMARY STATISTICS

FOR 1994 CALENDAR YEAR

FOR 1995 WATER YEAR

WATER YEARS 1972 - 1995

ANNUAL TOTAL	14163	63840	
ANNUAL MEAN	38.8	175	68.9
HIGHEST ANNUAL MEAN			193 1993
LOWEST ANNUAL MEAN			9.52 1990
HIGHEST DAILY MEAN	231 Feb 7	7700 Jan 10	14000 Mar 1 1983
LOWEST DAILY MEAN	10 Dec 8	10 Dec 8	.07 Jun 9 1972
ANNUAL SEVEN-DAY MINIMUM	10 Dec 16	10 Dec 16	.09 Sep 3 1972
INSTANTANEOUS PEAK FLOW		18800 Jan 10	20800 Mar 1 1983
INSTANTANEOUS PEAK STAGE		11.05 Jan 10	11.36 Mar 1 1983
ANNUAL RUNOFF (AC-FT)	28090	126600	49910
10 PERCENT EXCEEDS	79	276	122
50 PERCENT EXCEEDS	25	46	17
90 PERCENT EXCEEDS	15	23	5.7

11109700 LAKE PIRU NEAR PIRU, CA

LOCATION.--Lat 34°27'41", long 118°45'02", in Temescal Grant, Ventura County, Hydrologic Unit 18070102, near center of Santa Felicia Dam on Piru Creek, 0.5 mi downstream from Santa Felicia Canyon, 4.2 mi northeast of Piru, and 20 mi downstream from Pyramid Dam.

DRAINAGE AREA.--425 mi².

PERIOD OF RECORD.--May 1955 to current year. Prior to October 1985, monthend elevation and contents only.

GAGE.--Water-stage recorder. Datum of gage is sea level (levels by United Water Conservation District). Prior to Jan. 27, 1956, reference point at intake tower at same datum. Jan. 27, 1956, to Dec. 1, 1980, nonrecording gage at same site and datum.

REMARKS.--Lake is formed by earthfill dam. Storage began May 20, 1955. Capacity below spillway level at elevation 1,055.0 ft, 88,340 acre-ft. Water is released from outlet to Piru Creek for ground-water recharge, domestic use, and irrigation on the Oxnard Plain. See schematic diagram of Santa Clara River basin.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents observed, 109,400 acre-ft, Feb. 25, 1969, elevation, 1,061.45 ft; lake dry, Oct. 25 to Nov. 20, 1961.

EXTREMES (at 2400) FOR CURRENT YEAR.--Maximum contents, 89,200 acre-ft, Mar. 11; maximum elevation, 1,055.65 ft, Mar. 11; minimum contents 33,200 acre-ft, Jan. 3; minimum elevation 999.00 ft, Jan. 3.

Capacity table (elevation, in feet, and contents, in acre-feet)
(Based on survey by United Water Conservation District in October 1985)

970	14,800	1,000	33,900	1,040	70,900
980	20,300	1,010	42,000	1,050	82,300
990	26,700	1,020	50,800	1,060	94,600
		1,030	60,500		

RESERVOIR STORAGE (ACRE-FEET), WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY OBSERVATION AT 2400 HOURS

JAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	50700	42600	38000	33400	e78700	88000	88300	87600	87100	85800	80400	69100
2	50400	42300	37800	33200	e80300	88100	88300	87600	87100	85600	80200	68700
3	50000	42000	37600	33200	e81900	88200	88300	87500	87200	85500	79900	68400
4	49800	41700	37500	33900	e83600	88200	88300	87400	87200	85400	79500	68000
5	49800	41400	37300	34200	e85200	88500	88300	87400	87200	85200	79200	67600
6	49700	41100	37100	34200	e86800	88400	88300	87400	87200	85100	78800	67200
7	49600	40800	36900	34500	88300	88200	88300	87300	87200	85000	78500	66800
8	49300	40600	36800	34800	88300	87900	88200	87300	87200	84800	78100	66400
9	49000	40500	e36600	35900	88200	87500	88000	87300	87200	84700	77700	66100
10	48900	40600	e36400	50300	88200	88600	88000	87300	87200	84500	77300	65700
11	48600	40600	e36200	57400	88300	89100	88000	87200	87200	84300	77000	65300
12	e48300	40600	e36000	59800	88200	88800	88100	87100	87200	84200	76600	64900
13	e48000	40700	e35900	61000	88300	88700	88000	87000	87200	84000	76200	64600
14	e47700	40600	e35700	61800	88600	88600	88000	87000	87100	83900	75800	64200
15	e47400	40500	35500	62300	88400	88600	88000	87200	87000	83700	75400	63800
16	e47100	40300	35300	62600	88300	88500	88200	87400	87000	83600	75100	63500
17	e46800	40200	35000	62700	88300	88500	88200	87400	87100	83400	74700	63100
18	e46500	40000	35000	63000	88300	88400	88200	87500	87100	83300	74400	62800
19	e46300	39900	34800	63200	88200	88400	88200	87500	87000	83200	74000	62600
20	e46000	39700	34700	63400	88200	88300	88200	87500	87000	83000	73600	e62300
21	e45700	39600	34400	63700	88200	88300	88000	87500	86900	82800	73300	e62000
22	e45400	39400	34200	63900	88200	88300	88000	87500	86800	82700	72900	e61600
23	e45100	39300	34100	65000	88100	88600	88000	87500	86700	82600	72600	e61200
24	44800	39100	34000	e65800	88100	88400	87900	87500	86700	82500	72200	e60800
25	44500	38900	34000	e67400	88100	88400	87900	87400	86500	82400	71800	e60500
26	44200	38800	34000	e69000	88000	88400	87800	87400	86500	82200	71400	e60100
27	43900	38600	34000	e70600	88000	88400	87800	87300	86400	82000	71000	e59700
28	43600	38500	34000	e72300	88000	88400	87700	87300	86200	81600	70600	e59400
29	43300	38300	33900	e73900	---	88400	87700	87300	86000	81200	70300	e59000
30	43100	38200	33700	e75500	---	88300	87600	87200	85900	80900	69900	e58600
31	42800	---	33500	e77100	---	88300	---	87100	---	80600	69500	---
AX	50700	42600	38000	77100	88600	89100	88300	87600	87200	85800	80400	69100
IN	42800	38200	33500	33200	78700	87500	87600	87000	85900	80600	69500	58600
a	1011.01	1005.37	999.50	1045.53	1054.74	1054.98	1054.43	1054.00	1053.02	1048.60	1038.68	1028.13
b	-8300	-4600	-4700	+43600	+10900	+300	-700	-500	-1200	-5300	-11100	-10900

AL YR 1994 b -16700

TR YR 1995 b +7700

e Estimated.

a Elevation, in feet, at end of month.

b Change in contents, in acre-feet.

11109800 PIRU CREEK BELOW SANTA FELICIA DAM, CA

LOCATION.--Lat 34°27'37", long 118°45'04", in Temescal Grant, Ventura County, Hydrologic Unit 18070102, on right bank 750 ft downstream from Santa Felicia Dam, 1 mi upstream from Lime Canyon, 4 mi northeast of Piru, and 20 mi downstream from Pyramid Dam.

DRAINAGE AREA.--425 mi².

PERIOD OF RECORD.--October 1955 to September 1968, October 1973 to current year.

CHEMICAL DATA.--Water years 1969, 1974-80.

WATER TEMPERATURE.--Water year 1969.

REVISED RECORDS.--WSP 1928: Drainage area.

GAGE.--Water-stage recorder and concrete control. Datum of gage is 858.8 ft above sea level (levels by United Water Conservation District).

REMARKS.--Records good except those for estimated daily discharges, which are poor. Since May 1955, flow regulated by Lake Piru (station 11109700), and since December 1971, by Pyramid Lake (station 11109520). Imported water from the California Water Project stored by Pyramid Lake. Spill from Lake Piru bypasses gage. See schematic diagram of Santa Clara River basin.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 623 ft³/s, Aug. 2, 1982, gage height, 3.82 ft; no flow at times in some years.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 404 ft³/s, Mar. 8, gage height, 3.45 ft; minimum daily, 5.1 ft³/s, Jan. 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	193	160	107	104	105	107	103	103	e99	103	220	213
2	194	160	107	105	106	107	103	103	e39	104	220	213
3	194	160	107	42	107	107	102	100	e47	105	220	211
4	182	165	107	9.1	107	94	101	103	e40	105	220	208
5	44	171	107	5.2	107	63	101	97	40	104	217	207
6	59	171	107	5.2	107	68	101	98	42	105	217	207
7	120	171	107	5.1	107	136	101	98	43	107	223	207
8	159	171	106	45	100	317	97	98	43	105	224	209
9	152	68	105	120	107	377	101	67	39	106	224	210
10	93	6.0	105	120	107	300	101	98	40	107	223	210
11	147	5.8	105	55	83	102	99	105	40	108	223	213
12	147	5.7	91	5.2	75	104	99	106	41	109	223	213
13	147	6.1	80	5.2	107	105	99	104	51	109	220	213
14	147	55	75	5.2	107	105	99	e92	58	107	218	216
15	147	95	105	e5.2	105	105	98	e91	56	108	216	217
16	147	87	105	e5.2	107	105	36	e64	56	109	214	213
17	164	87	105	e5.2	108	105	66	e60	56	109	213	215
18	173	99	105	e5.2	108	107	98	e60	56	134	213	217
19	172	107	105	e5.2	109	107	98	e60	55	150	210	216
20	174	107	96	5.2	109	201	99	e66	68	150	210	229
21	174	107	107	5.2	109	190	99	e74	74	150	210	231
22	174	107	105	5.2	109	136	99	e74	74	149	210	232
23	174	107	105	5.4	109	174	99	e101	74	147	196	236
24	174	107	82	82	109	103	99	e101	74	149	206	237
25	174	107	18	249	109	103	100	e101	74	189	217	233
26	173	107	18	105	109	82	99	e101	75	217	217	239
27	173	107	19	105	109	103	100	e101	92	161	216	241
28	173	107	19	105	72	103	101	e94	103	231	213	119
29	173	107	56	105	---	67	101	e97	103	241	213	224
30	160	107	107	105	---	102	103	e97	104	241	213	234
31	153	---	103	105	---	103	---	e97	---	232	213	---
TOTAL	4830	3127.6	2776	1639.2	2913	4088	2902	2811	1856	4351	6692	6483
MEAN	156	104	89.5	52.9	104	132	96.7	90.7	61.9	140	216	216
MAX	194	171	107	249	109	377	103	106	104	241	224	241
MIN	44	5.7	18	5.1	72	63	36	60	39	103	196	119
AC-FT	9580	6200	5510	3250	5780	8110	5760	5580	3680	8630	13270	12860

e Estimated.

SANTA CLARA RIVER BASIN

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11109800 PIRU CREEK BELOW SANTA FELICIA DAM, CA--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1956 - 1968, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	11.0	13.9	33.1	10.4	14.2	25.3	49.7	46.0	56.8	94.4	88.0	44.3
MAX	29.8	97.7	235	34.6	35.7	115	136	194	245	465	396	248
(WY)	1961	1967	1959	1966	1966	1963	1964	1966	1962	1958	1958	1967
MIN	.000	.86	.003	.15	.018	.006	5.59	6.76	6.76	6.82	6.93	5.94
(WY)	1956	1956	1956	1968	1957	1957	1957	1964	1964	1959	1959	1968

SUMMARY STATISTICS

WATER YEARS 1956 - 1968

ANNUAL MEAN	40.8	
HIGHEST ANNUAL MEAN	102	1958
LOWEST ANNUAL MEAN	10.0	1961
HIGHEST DAILY MEAN	526	Sep 26 1959
LOWEST DAILY MEAN	.00	Oct 1 1955
ANNUAL SEVEN-DAY MINIMUM	.00	Oct 1 1955
INSTANTANEOUS PEAK FLOW	544	Aug 18 1958
INSTANTANEOUS PEAK STAGE	3.66	Aug 18 1958
ANNUAL RUNOFF (AC-FT)	29540	
0 PERCENT EXCEEDS	101	
0 PERCENT EXCEEDS	8.6	
0 PERCENT EXCEEDS	1.4	

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1974 - 1995, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	98.8	45.7	19.0	15.1	21.0	28.7	25.3	46.9	53.9	79.0	87.2	104
MAX	446	323	89.5	86.6	123	132	109	224	241	271	322	294
(WY)	1993	1993	1995	1994	1984	1995	1980	1988	1987	1986	1982	1979
MIN	4.17	4.68	3.91	.000	.049	.16	.088	.004	1.49	4.09	3.94	4.32
(WY)	1987	1987	1978	1978	1983	1983	1983	1983	1983	1983	1991	1991

SUMMARY STATISTICS

FOR 1994 CALENDAR YEAR

FOR 1995 WATER YEAR

WATER YEARS 1974 - 1995

ANNUAL TOTAL	22893.1	44468.8	
ANNUAL MEAN	62.7	122	52.2
HIGHEST ANNUAL MEAN			138
LOWEST ANNUAL MEAN			7.03
HIGHEST DAILY MEAN	290	Sep 7	526
LOWEST DAILY MEAN	2.3	Sep 5	.00
ANNUAL SEVEN-DAY MINIMUM	3.0	Aug 30	.00
INSTANTANEOUS PEAK FLOW			623
INSTANTANEOUS PEAK STAGE			3.82
ANNUAL RUNOFF (AC-FT)	45410	88200	37840
0 PERCENT EXCEEDS	174	217	195
0 PERCENT EXCEEDS	9.2	105	7.0
0 PERCENT EXCEEDS	3.8	44	3.5

1111500 SESPE CREEK NEAR WHEELER SPRINGS, CA

LOCATION.--Lat 34°34'40", long 119°15'25", in NW 1/4 SW 1/4 sec.30, T.6 N., R.22 W., Ventura County, Hydrologic Unit 18070102, on right bank at Sespe Gorge, 1.6 mi upstream from Tule Creek, and 5 mi northeast of Wheeler Springs.

DRAINAGE AREA.--49.5 mi².

PERIOD OF RECORD.--October 1947 to current year. Discharge estimated for period October 1947 to July 1948.

REVISED RECORDS.--WSP 1928: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 3,500.65 ft above sea level (levels by Ventura County Flood Control District).

REMARKS.--Records fair. No regulation or diversion upstream from station. See schematic diagram of Santa Clara River basin.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 11,600 ft³/s, Mar. 1, 1983, gage height, 15.02 ft, from rating curve extended above 3,000 ft³/s on basis of slope-area measurement of peak flow; no flow for many days in some years.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 100 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Jan. 10	0900	4,770	8.58	Mar. 5	1845	844	3.73
Jan. 20	1145	125	2.02	Mar. 10	2200	*8,420	*12.27
Jan. 25	0715	6,110	10.02	Mar. 23	0300	1,230	4.28
Feb. 14	0645	338	2.67	May 15	1500	261	1.96

Minimum daily, .23 ft³/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	.32	.96	e1.5	e2.4	132	38	103	33	e19	9.3	3.1	2.1
2	.24	.80	e1.5	e3.6	108	58	92	31	18	9.5	2.5	2.0
3	.23	.76	e1.5	4.8	85	73	82	30	17	9.0	2.5	1.9
4	3.0	.79	e1.5	10	72	55	74	29	17	8.8	2.5	1.9
5	6.1	1.0	e1.5	14	61	398	69	28	16	8.3	2.4	1.9
6	1.5	1.1	e1.4	7.0	55	348	63	27	17	8.1	2.3	2.0
7	1.1	1.2	e1.4	17	50	204	63	26	18	8.2	2.2	2.0
8	.83	1.2	e1.3	61	49	159	63	25	17	8.0	2.2	2.2
9	.72	1.3	e1.2	409	44	143	61	e24	16	7.6	2.2	2.2
10	.64	2.0	e1.2	2640	40	1660	58	e23	16	7.7	2.2	2.2
11	.59	1.6	e1.2	536	37	1970	54	e22	15	7.6	2.2	2.1
12	.56	1.5	e1.3	212	36	587	52	e21	13	7.8	2.1	1.9
13	.55	1.5	e1.6	106	36	370	50	e20	12	7.8	2.1	1.7
14	.69	1.5	e1.5	69	209	279	50	e19	13	7.5	2.1	1.7
15	.76	1.5	e1.5	60	95	225	49	128	14	7.3	2.1	1.7
16	.86	1.4	e1.5	50	70	192	55	71	18	7.6	2.1	1.6
17	.83	1.4	e1.5	47	62	161	52	44	16	8.0	2.0	1.7
18	.84	1.4	e1.4	45	55	137	52	32	15	7.3	2.0	1.7
19	.85	1.4	e1.4	50	51	119	51	26	13	6.8	2.0	1.7
20	.86	1.5	e1.3	54	49	104	46	e25	13	6.7	2.0	1.7
21	.88	1.6	e1.2	53	47	138	43	e24	12	6.6	2.0	1.6
22	.89	1.6	e1.1	46	45	127	41	e24	11	5.8	2.0	1.6
23	.90	e1.6	e1.0	985	42	621	40	e24	11	5.1	2.6	1.7
24	.94	e1.6	e2.0	3520	41	286	38	e23	9.8	4.9	2.7	1.8
25	.96	e1.6	e4.0	3310	40	224	37	e22	9.4	4.4	2.7	2.0
26	.95	e1.5	e2.8	690	39	195	35	e22	9.2	4.2	2.6	2.2
27	.99	e1.5	e2.0	363	38	173	35	e22	9.3	3.9	2.5	2.3
28	1.0	e1.5	e1.8	258	37	155	34	e21	9.1	3.5	2.5	2.3
29	1.0	e1.5	e1.6	204	---	141	34	e20	9.1	3.5	2.3	2.5
30	.95	e1.5	e1.4	164	---	128	33	e20	9.0	3.3	2.2	2.4
31	.94	---	e1.2	147	---	114	---	e20	---	3.1	2.2	---
TOTAL	32.47	41.31	48.3	14137.8	1725	9582	1609	926	411.9	207.2	71.1	58.3
MEAN	1.05	1.38	1.56	456	61.6	309	53.6	29.9	13.7	6.68	2.29	1.94
MAX	6.1	2.0	4.0	3520	209	1970	103	128	19	9.5	3.1	2.5
MIN	.23	.76	1.0	2.4	36	38	33	19	9.0	3.1	2.0	1.6
AC-FT	64	82	96	28040	3420	19010	3190	1840	817	411	141	116

e Estimated.

11111500 SESPE CREEK NEAR WHEELER SPRINGS, CA--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1948 - 1995, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	.78	5.04	7.26	34.6	64.1	55.0	24.1	8.27	3.02	1.38	.70	.85
MAX	10.3	131	85.5	456	561	553	233	59.5	18.6	8.08	5.11	10.7
(WY)	1984	1966	1966	1995	1993	1983	1958	1983	1983	1983	1983	1976
MIN	.019	.077	.063	.16	.67	.95	.68	.43	.15	.023	.000	.000
(WY)	1962	1951	1991	1991	1951	1951	1951	1961	1951	1951	1951	1951

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1948 - 1995	
ANNUAL TOTAL	1555.46		28850.38			
ANNUAL MEAN	4.26		79.0		16.8	
HIGHEST ANNUAL MEAN					101	
LOWEST ANNUAL MEAN					.33	
HIGHEST DAILY MEAN	119	Feb 7	3520	Jan 24	6430	Mar 1 1983
LOWEST DAILY MEAN	.11	Aug 25	.23	Oct 3	.00	Aug 25 1949
ANNUAL SEVEN-DAY MINIMUM	.12	Aug 22	.64	Oct 9	.00	Aug 25 1949
INSTANTANEOUS PEAK FLOW			8420	Mar 10	11600	Mar 1 1983
INSTANTANEOUS PEAK STAGE			12.27	Mar 10	15.02	Mar 1 1983
ANNUAL RUNOFF (AC-FT)	3090		57220		12200	
10 PERCENT EXCEEDS	9.6		134		19	
50 PERCENT EXCEEDS	1.6		8.2		1.5	
90 PERCENT EXCEEDS	.22		1.2		.10	

11113500 SANTA PAULA CREEK NEAR SANTA PAULA, CA

LOCATION.--Lat 34°24'48", long 119°04'53", in NW 1/4 SE 1/4 sec.21, T.4 N., R.21 W., Mission San Buenaventura Grant, Ventura County, Hydrologic Unit 18070102, on right bank 1.3 mi downstream from Sisar Creek and 4.8 mi north of Santa Paula.
DRAINAGE AREA.--38.4 mi².

PERIOD OF RECORD.--October 1927 to September 30, 1995 (discontinued). March 1912 to September 1913, at site 1.2 mi upstream; records not equivalent.

CHEMICAL DATA: 1969-80

WATER TEMPERATURE: 1969-71, 1974-75.

REVISED RECORDS.--WSP 1635: 1933(M), 1934, 1936(M), 1941(M). WSP 1715: Drainage area.

GAGE.--Water-stage recorder and crest-stage gage. Elevation of gage is 785 ft above sea level, from topographic map. Prior to Oct. 22, 1980, at various sites and datums 1.3 mi downstream. See WDR CA-79-1 for history of changes prior to Oct. 22, 1980. Prior to Feb. 12, 1992, at datum 5.0 ft higher at same site.

REMARKS.--Records good, except those for estimated daily discharges, which are poor. Natural flow affected by pumping and return flow from irrigated areas. See schematic diagram of Santa Clara River basin.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 21,000 ft³/s, Feb. 25, 1969, gage height, 15.18 ft, from floodmark, site and datum then in use, from rating curve extended above 2,300 ft³/s on basis of critical-depth measurement at gage height 12.2 ft; maximum gage height 15.28 ft, Jan. 10, 1995 at present datum, no flow at times in 1927, 1949, 1951-52, 1965.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 200 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Jan. 4	1730	374	6.62	Mar. 5	1830	610	7.28
Jan. 10	1145	*8,140	*15.28	Mar. 10	2115	3,600	11.59
Jan. 24	0430	2,190	9.66	Mar. 23	0500	1,010	8.12
Feb. 14	0615	1,040	8.19				

Minimum daily, 2.3 ft³/s, Oct. 1.

REVISIONS.--Revised figures of discharge for the water year 1994 superseding those published in the report for 1994 are given below.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6.2	7.1	7.2	7.2	14	28	15	9.8	7.0	4.4	3.5	2.7
2	5.6	7.0	6.8	7.1	16	26	15	9.8	6.6	4.1	3.5	2.7
3	5.5	7.1	6.5	7.1	19	21	14	9.8	6.5	4.3	3.4	2.9
4	6.2	7.2	6.2	6.9	27	19	15	9.8	6.5	4.7	3.2	3.2
5	7.2	6.6	6.1	6.7	21	20	14	9.9	6.6	4.7	3.1	3.1
6	7.2	6.7	6.1	6.7	21	22	13	10	6.9	4.5	3.0	3.2
7	7.3	7.1	6.4	6.7	169	23	13	11	6.7	4.4	3.3	3.2
8	8.1	7.0	6.2	6.8	168	23	13	12	6.5	4.6	3.3	3.2
9	8.0	6.9	6.0	6.7	39	19	13	12	6.5	4.7	2.9	3.1
10	8.6	7.0	6.2	6.8	23	17	14	11	6.7	4.7	2.7	2.9
11	10	9.3	39	6.7	19	17	13	11	7.0	4.7	2.5	2.7
12	8.7	7.9	13	6.7	17	15	12	11	7.3	4.5	2.3	2.7
13	10	7.9	9.8	6.7	16	14	12	8.5	7.6	4.2	2.1	2.7
14	10	7.5	11	6.6	15	13	12	8.3	7.1	4.4	2.2	2.7
15	9.8	7.2	9.9	6.6	14	13	12	8.6	7.5	4.5	2.1	2.6
16	11	6.9	9.2	6.6	14	12	12	9.2	7.8	4.6	1.9	2.5
17	11	7.2	8.8	8.5	93	12	12	9.3	7.4	4.5	1.7	2.3
18	9.8	7.1	8.8	10	47	12	11	9.8	6.8	4.3	1.6	2.4
19	9.6	6.8	9.3	11	31	18	11	11	6.7	4.2	1.6	2.6
20	9.9	6.7	8.4	11	318	14	11	9.7	6.7	4.4	1.6	2.5
21	8.2	6.7	8.1	12	93	12	10	9.1	6.5	4.2	1.6	2.3
22	6.3	6.8	8.4	13	58	11	9.8	8.9	6.2	4.0	1.7	2.3
23	5.7	6.7	8.5	14	46	11	9.8	9.2	5.5	4.1	1.7	2.4
24	5.5	6.8	8.1	17	39	64	10	8.9	5.4	4.0	1.5	2.6
25	5.8	6.5	7.6	20	36	32	9.6	9.3	5.1	3.9	1.6	2.6
26	5.2	6.5	7.6	16	35	18	11	9.8	5.0	3.8	1.5	2.5
27	5.3	6.9	7.6	12	33	17	11	9.8	4.5	3.5	1.6	2.5
28	6.1	7.0	7.6	11	30	17	10	8.0	4.2	3.6	1.7	2.3
29	5.7	9.2	7.6	10	---	16	10	7.5	4.2	3.7	2.0	2.4
30	6.2	14	7.4	10	---	15	9.8	7.3	4.3	3.6	2.3	2.5
31	6.6	---	7.1	11	---	15	---	7.3	---	3.6	2.6	---
TOTAL	236.3	221.3	276.5	295.1	1471	586	358.0	296.6	189.3	131.4	71.3	80.3
MEAN	7.62	7.38	8.92	9.52	52.5	18.9	11.9	9.57	6.31	4.24	2.30	2.68
MAX	11	14	39	20	318	64	15	12	7.8	4.7	3.5	3.2
MIN	5.2	6.5	6.0	6.6	14	11	9.6	7.3	4.2	3.5	1.5	2.3
AC-FT	469	439	548	585	2920	1160	710	588	375	261	141	159

SANTA CLARA RIVER BASIN

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11113500 SANTA PAULA CREEK NEAR SANTA PAULA, CA

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1928 - 1994, BY WATER YEAR (WY)

MEAN	2.94	8.21	15.4	40.3	87.2	67.7	34.8	14.0	7.98	4.86	3.16	3.09
MAX	18.8	183	128	718	841	454	375	78.7	46.4	26.9	16.5	24.5
(WY)	1984	1966	1967	1969	1969	1978	1958	1983	1983	1983	1983	1983
MIN	.000	.000	.000	.76	.97	1.69	.000	.081	.000	.000	.000	.000
(WY)	1929	1930	1930	1928	1930	1961	1928	1928	1928	1928	1928	1928

SUMMARY STATISTICS FOR 1993 CALENDAR YEAR FOR 1994 WATER YEAR WATER YEARS 1928 - 1994

ANNUAL TOTAL	36085.2	4213.1	
ANNUAL MEAN	98.9	11.5	23.8
HIGHEST ANNUAL MEAN			156
LOWEST ANNUAL MEAN			1.37
HIGHEST DAILY MEAN	2500 Feb 19	318 Feb 20	8900 Feb 25 1969
LOWEST DAILY MEAN	5.0 Sep 27	1.5 Aug 24	.00 Oct 1 1927
ANNUAL SEVEN-DAY MINIMUM	5.6 Sep 27	1.6 Aug 20	.00 Oct 1 1927
INSTANTANEOUS PEAK FLOW		698 Feb 20	21000 Feb 25 1969
INSTANTANEOUS PEAK STAGE		7.53 Feb 20	15.18 Feb 25 1969
ANNUAL RUNOFF (AC-FT)	71570	8360	17230
10 PERCENT EXCEEDS	250	17	35
50 PERCENT EXCEEDS	20	7.2	4.7
90 PERCENT EXCEEDS	6.5	2.6	.80

11113500 SANTA PAULA CREEK NEAR SANTA PAULA, CA--Continued

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	2.3	3.4	6.3	4.2	e150	72	e135	e44	e26	e17	11	5.8
2	2.6	3.6	6.3	3.9	e130	95	e125	e42	e25	e17	10	5.0
3	2.7	3.9	6.3	6.7	e120	112	e120	e40	e26	e17	9.5	4.9
4	4.7	3.9	6.3	159	e100	96	e110	e40	e27	e17	9.7	5.5
5	5.2	4.0	6.5	67	e92	343	e110	e38	e28	e17	9.7	6.8
6	3.7	4.4	6.4	7.5	e85	e600	e94	e36	e29	e17	9.7	6.8
7	3.0	4.2	5.9	19	e80	240	e90	e36	e30	e17	9.3	6.8
8	2.8	4.8	5.6	252	e70	189	e88	e34	e29	e17	8.4	6.8
9	2.8	4.8	5.5	1130	e65	162	e86	e30	e27	e17	8.4	7.1
10	2.9	6.9	5.4	3250	e60	749	e84	e27	e24	e17	9.3	7.1
11	2.6	5.5	5.5	1600	e56	951	e82	e23	e22	e16	8.8	7.4
12	2.6	5.8	4.9	987	e52	491	e80	e20	e20	e16	8.9	6.8
13	2.8	5.5	4.5	429	e50	388	e70	e20	e22	e16	8.9	6.2
14	3.1	5.4	4.2	288	461	364	e80	e20	e23	e16	8.4	6.4
15	3.2	5.2	3.8	e200	249	e320	e76	e120	e26	e16	8.4	6.1
16	3.2	5.3	4.0	e140	196	e280	e74	e80	e29	e16	9.3	6.4
17	3.3	5.4	4.0	e110	155	e250	e72	e68	e30	e16	9.3	6.8
18	3.4	5.9	4.0	e85	e145	e220	e70	e58	e29	e16	9.7	7.1
19	3.3	5.9	3.5	e75	e135	e210	e66	e50	e25	e16	9.7	6.4
20	3.2	5.9	3.4	e65	e110	e190	e62	e40	e23	e16	9.7	6.8
21	3.2	5.9	3.4	e55	e100	e180	e60	e37	e21	e16	8.4	6.8
22	3.2	5.9	3.4	e60	e92	213	e58	e36	e21	e15	8.1	6.8
23	3.3	5.9	3.6	98	e88	497	e58	e34	e20	e14	7.8	7.1
24	3.6	6.1	7.1	1640	e84	369	e56	e33	e19	e13	7.8	7.1
25	3.9	6.3	8.0	1420	e80	e300	e54	e32	e19	e12	7.4	7.1
26	4.0	6.6	4.9	520	e78	e260	e54	e31	e18	e12	7.4	7.4
27	4.1	6.7	4.5	e370	e74	e220	e52	e30	e18	e12	7.1	7.4
28	3.4	6.7	4.2	e300	e70	e210	e50	e29	e18	e12	6.8	7.1
29	3.5	6.6	4.2	e250	---	e190	e48	e28	e18	e12	6.1	7.1
30	3.7	6.3	4.2	e210	---	e175	e46	e27	e18	e11	5.8	6.8
31	3.6	---	4.2	e175	---	e150	---	e27	---	11	5.5	---
TOTAL	102.9	162.7	154.0	13976.3	3227	9086	2310	1210	710	470	264.4	199.7
MEAN	3.32	5.42	4.97	451	115	293	77.0	39.0	23.7	15.2	8.53	6.66
MAX	5.2	6.9	8.0	3250	461	951	135	120	30	17	11	7.4
MIN	2.3	3.4	3.4	3.9	50	72	46	20	18	11	5.5	4.9
AC-FT	204	323	305	27720	6400	18020	4580	2400	1410	932	524	396

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	2.95	8.17	15.3	46.4	87.6	71.0	35.5	14.4	8.21	5.01	3.24	3.14
MAX	18.8	183	128	718	841	454	375	78.7	46.4	26.9	16.5	24.5
(WY)	1984	1966	1967	1969	1969	1978	1958	1983	1983	1983	1983	1983
MIN	.000	.000	.000	.76	.97	1.69	.000	.081	.000	.000	.000	.000
(WY)	1929	1930	1930	1928	1930	1961	1928	1928	1928	1928	1928	1928

SUMMARY STATISTICS

FOR 1994 CALENDAR YEAR

FOR 1995 WATER YEAR

WATER YEARS 1928 - 1995

ANNUAL TOTAL	3898.6	31873.0	
ANNUAL MEAN	10.7	87.3	24.7
HIGHEST ANNUAL MEAN			156
LOWEST ANNUAL MEAN			1.37
HIGHEST DAILY MEAN	318	Feb 20	8900
LOWEST DAILY MEAN	1.5	Aug 24	.00
ANNUAL SEVEN-DAY MINIMUM	1.6	Aug 20	.00
INSTANTANEOUS PEAK FLOW			8140
INSTANTANEOUS PEAK STAGE			15.28
ANNUAL RUNOFF (AC-FT)	7730	63220	17910
10 PERCENT EXCEEDS	17	204	36
50 PERCENT EXCEEDS	6.3	17	4.7
90 PERCENT EXCEEDS	2.6	3.9	.84

e Estimated.

11113920 SANTA CLARA RIVER AT SATICOY, CA

LOCATION.--Lat 34°16'44", long 119°08'28" in Santa Clara Del Norte Grant, Ventura County, Hydrologic Unit 18070102, on downstream side of State Highway 118 bridge, 0.8 mile southeast of Saticoy.

DRAINAGE AREA.--1,577 mi².

PERIOD OF RECORD.--October 1927 to September 1932, October 1949 to September 1969. October 1969 to September 1994, published as "at Montalvo" (station 11114000). Monthly discharge only for 1950-67 published in 1968 report. Discharge measurements only January to September 30, 1995.

REMARKS.--Flow partly regulated by Lake Piru (station 11109700) capacity, 88,340 acre-ft, 37 mi upstream since 1955; by Pyramid Lake (station 11109520), capacity, 171,196 acre-ft, 46 mi upstream since December 1971; by Castaic Lake (station 11108133), capacity, 324,000 acre-ft, 47 mi upstream since January 1972. Natural flow affected by ground-water withdrawals, diversions, municipal use, and ground-water replenishment. Imported water from the California Water Project released to the basin at Castaic Dam and Pyramid Dam. Diversion to spreading grounds and for irrigation in Pleasant Valley, at site 10.0 mi upstream. Discharge represents flow to the ocean regardless of upstream development, see schematic diagram of Santa Clara River Basin.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 165,000 ft³/s, Jan. 25, 1969, gage height 22.41 ft, datum then in use; no flow for long periods in most years.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Mar. 2, 1938, reached a discharge of 120,000 ft³/s, estimated by Ventura County Flood Control District.

DISCHARGE MEASUREMENTS, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

Date	Time	Discharge	Date	Time	Discharge
Jan. 6	0850	170	Apr. 13	1100	562
Jan. 12	1545	4,580	June 7	0740	34
Feb. 15	1440	1,480	Aug. 2	1210	20
Mar. 9	1510	1,220	Sept. 5	1215	24
Mar. 13	1355	4,220			

VENTURA RIVER BASIN

11118500 VENTURA RIVER NEAR VENTURA, CA

LOCATION.--Lat 34°21'05", long 119°18'23", in southeast corner of Santa Ana Grant, Ventura County, Hydrologic Unit 18070101, on right bank 420 ft downstream from bridge on Casitas Pass Road at Foster Memorial Park, 0.2 mi downstream from Coyote Creek, and 5 mi north of Ventura.

DRAINAGE AREA.--188 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--September 1911 to January 1914, October 1929 to current year; combined records of river and diversion, October 1932 to current year.

REVISED RECORDS.--WSP 1565: 1957. WSP 1928: Drainage area.

GAGE.--Water-stage recorder and crest-stage gage on river; water-stage recorder and Parshall flume on diversion. Datum of gage is 205.23 ft, Ventura County Flood Control datum. See WSP 1315-B for history of changes prior to Nov. 2, 1949. Nov. 2, 1949, to June 12, 1969, at site 80 ft downstream at datum 9.00 ft lower. June 13, 1969, to Dec. 22, 1986, at site 370 ft upstream at datum 5.00 ft lower.

REMARKS.--Records poor. Flow partly regulated since March 1948 by Matilija Reservoir, usable capacity, 1,480 acre-ft, and since October 1959 by Lake Casitas, capacity, 267,000 acre-ft. Water diverted to Lake Casitas on Coyote Creek since January 1959. Diversion by city of Ventura for municipal supply began prior to 1911. For records of combined discharge of river and Ventura City Diversion (station 11118400), see station 11118501.

EXTREMES FOR PERIOD OF RECORD.--River only: Maximum discharge, 63,600 ft³/s, Feb. 10, 1978, gage height, 24.14 ft, from rating curve extended above 34,000 ft³/s; maximum gage height, 29.3 ft, Jan. 25, 1969, present datum, from floodmarks; no flow at times in many years.
Combined river and diversion: Maximum discharge, 63,600 ft³/s, Feb. 10, 1978; no flow Nov. 28, 29, 1977; Oct. 23-26, 1989; July 9-11, 1990; many days, 1994.

EXTREMES FOR CURRENT YEAR.--River only: Maximum discharge, 43,700 ft³/s, Jan. 10, gage height, 21.16 ft; no flow for many days.
Combined river and diversion: Maximum discharge, 43,700 ft³/s, Jan. 10; 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	623	289	797	185	104	e50	e29	9.6
2	.00	.00	.00	.00	573	349	744	203	116	e46	e29	9.5
3	.00	.00	.00	.00	523	475	694	195	135	e44	e28	9.7
4	.00	.00	.00	157	496	397	647	155	137	e42	e26	9.6
5	.00	.00	.03	90	479	1180	609	144	129	e42	e24	9.1
6	.00	.00	.19	5.0	463	1320	577	138	105	e42	e24	8.6
7	.00	.00	.35	35	455	946	547	136	85	e42	e23	8.8
8	.00	.00	.65	101	435	859	521	138	e80	e42	e20	8.6
9	.00	.00	1.3	1710	379	852	496	135	e78	e42	e16	8.7
10	.00	.00	.91	16800	353	5460	467	134	e77	e40	e16	8.7
11	.00	.00	.01	4780	339	9750	445	135	e77	e37	e16	8.9
12	.00	.00	.00	1940	328	3540	423	136	e77	e35	e16	8.5
13	.00	.00	.00	1050	319	2480	409	136	e75	e34	e15	8.5
14	.00	.00	.00	786	1020	1970	387	137	e72	e34	e14	8.0
15	.00	.00	.00	620	589	1600	369	329	e70	e34	e13	8.1
16	.00	.00	.00	530	499	1320	375	233	e70	e34	e13	8.7
17	.00	.00	.00	472	454	1130	346	185	e70	e33	e12	8.9
18	.00	.00	.00	389	430	987	335	164	e73	e32	e12	9.1
19	.00	.00	.00	366	407	894	317	153	e76	e30	12	8.7
20	.00	.00	.00	349	393	792	299	148	e78	e30	12	8.5
21	.00	.00	.00	322	394	838	284	150	e80	e28	12	8.5
22	.00	.00	.00	305	375	716	270	149	e80	e30	12	8.3
23	.00	.00	.00	781	335	3330	253	149	e80	e32	12	8.4
24	.00	.00	.00	5980	352	1980	243	150	e77	e33	11	8.2
25	.00	.00	.00	7560	338	1600	227	119	e70	e33	12	7.6
26	.00	.00	.00	3790	317	1360	216	107	e62	e33	11	7.4
27	.00	.00	.00	1740	309	1190	209	104	e56	e33	11	7.1
28	.00	.00	.00	1430	295	1060	201	106	e55	e33	11	7.0
29	.00	.00	.00	1180	---	984	193	105	e52	e32	10	6.9
30	.00	.00	.00	962	---	921	187	98	e52	e30	10	6.7
31	.00	---	.00	734	---	854	---	97	---	e29	10	---
TOTAL	0.00	0.00	3.44	54964.00	12272	51423	12087	4653	2448	1111	492	252.9
MEAN	.000	.000	.11	1773	438	1659	403	150	81.6	35.8	15.9	8.43
MAX	.00	.00	1.3	16800	1020	9750	797	329	137	50	29	9.7
MIN	.00	.00	.00	.00	295	289	187	97	52	28	10	6.7
AC-FT	.00	.00	6.8	109000	24340	102000	23970	9230	4860	2200	976	502

e Estimated.

VENTURA RIVER BASIN

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11118500 VENTURA RIVER NEAR VENTURA, CA--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1930 - 1957, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	3.29	5.15	36.5	121	192	237	78.0	26.1	12.1	6.15	3.59	2.51
MAX	21.4	38.8	174	1103	1058	1951	874	226	103	56.1	35.8	21.2
(WY)	1942	1947	1932	1952	1941	1938	1941	1941	1941	1941	1941	1941
MIN	.000	.000	.000	.000	.000	.003	.000	.000	.000	.000	.000	.000
(WY)	1930	1930	1930	1931	1930	1951	1949	1934	1934	1931	1930	1930

SUMMARY STATISTICS

WATER YEARS 1930 - 1957

ANNUAL MEAN	59.7
HIGHEST ANNUAL MEAN	354
LOWEST ANNUAL MEAN	.000
HIGHEST DAILY MEAN	17900
LOWEST DAILY MEAN	.00
ANNUAL SEVEN-DAY MINIMUM	.00
INSTANTANEOUS PEAK FLOW	39200
INSTANTANEOUS PEAK STAGE	19.20
ANNUAL RUNOFF (AC-FT)	43230
10 PERCENT EXCEEDS	71
50 PERCENT EXCEEDS	1.9
90 PERCENT EXCEEDS	.00

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	2.41	15.1	24.3	155	282	216	71.2	27.9	12.8	6.94	3.52	2.88
MAX	40.9	278	234	1880	1899	1797	758	238	81.6	38.5	17.4	15.2
(WY)	1984	1966	1966	1969	1969	1983	1983	1983	1985	1978	1978	1983
MIN	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
(WY)	1962	1965	1969	1976	1961	1990	1961	1961	1961	1961	1961	1961

SUMMARY STATISTICS

FOR 1994 CALENDAR YEAR

FOR 1995 WATER YEAR

WATER YEARS 1960 - 1995

ANNUAL TOTAL	2667.10	139706.34	
ANNUAL MEAN	7.31	383	67.2
HIGHEST ANNUAL MEAN			383
LOWEST ANNUAL MEAN			.29
HIGHEST DAILY MEAN	568	Feb 20	16800
LOWEST DAILY MEAN	.00	Aug 23	.00
ANNUAL SEVEN-DAY MINIMUM	.00	Sep 7	.00
INSTANTANEOUS PEAK FLOW			43700
INSTANTANEOUS PEAK STAGE			21.16
ANNUAL RUNOFF (AC-FT)	5290		277100
10 PERCENT EXCEEDS	10		853
50 PERCENT EXCEEDS	2.0		42
90 PERCENT EXCEEDS	.00		.00

VENTURA RIVER BASIN

11118501 VENTURA RIVER NEAR VENTURA, CA--Continued

VENTURA RIVER AND VENTURA CITY DIVERSION NEAR VENTURA
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	623	289	797	185	105	51	29	14
2	.00	.00	.00	.00	573	349	744	204	116	46	29	14
3	.00	.00	.00	.00	523	475	694	195	136	45	30	13
4	.00	.00	.00	157	497	397	647	157	138	43	29	14
5	.00	.00	.03	90	480	1180	609	145	130	42	28	13
6	.00	.00	.19	5.0	463	1320	577	139	107	43	27	13
7	.00	.00	.35	35	455	946	547	137	87	43	26	13
8	.00	.00	.65	101	435	860	521	139	82	43	23	13
9	.00	.00	1.3	1710	379	852	496	136	79	43	19	12
10	.00	.00	.91	16800	353	5460	467	135	78	42	17	13
11	.00	.00	.01	4780	339	9750	445	136	77	39	17	13
12	.00	.00	.00	1940	328	3540	424	137	79	36	17	13
13	.00	.00	.00	1050	319	2480	410	137	76	36	16	13
14	.00	.00	.00	786	1020	1970	388	138	74	35	15	13
15	.00	.00	.00	620	590	1600	369	329	70	37	14	11
16	.00	.00	.00	530	499	1320	376	234	71	34	15	11
17	.00	.00	.00	472	454	1130	347	186	71	36	14	12
18	.00	.00	.00	389	430	988	336	165	73	36	15	12
19	.00	.00	.00	366	407	895	318	154	77	34	14	12
20	.00	.00	.00	349	393	793	300	149	78	34	15	12
21	.00	.00	.00	322	394	839	285	150	81	32	14	12
22	.00	.00	.00	305	375	717	271	150	81	34	15	11
23	.00	.00	.00	781	335	3330	254	149	81	37	15	11
24	.00	.00	.00	5980	352	1980	244	151	78	37	15	12
25	.00	.00	.00	7560	338	1600	228	120	71	37	15	11
26	.00	.00	.00	3790	317	1360	217	108	63	37	14	11
27	.00	.00	.00	1740	309	1190	210	106	56	37	15	11
28	.00	.00	.00	1430	295	1060	202	107	56	34	15	11
29	.00	.00	.00	1180	---	984	194	106	53	32	14	11
30	.00	.00	.00	963	---	921	188	99	53	30	14	11
31	.00	---	.00	734	---	854	---	99	---	29	14	---
TOTAL	0.00	0.00	3.44	54965.00	12275	51429	12105	4682	2477	1174	569	366
MEAN	.000	.000	.11	1773	438	1659	403	151	82.6	37.9	18.4	12.2
MAX	.00	.00	1.3	16800	1020	9750	797	329	138	51	30	14
MIN	.00	.00	.00	.00	295	289	188	99	53	29	14	11
AC-FT	.00	.00	6.8	109000	24350	102000	24010	9290	4910	2330	1130	726

11118501 VENTURA RIVER NEAR VENTURA, CA--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1933 - 1957, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	
MEAN	8.12	9.68	33.2	138	191	266	91.0	35.4	20.8	13.2	9.67	8.33
MAX	27.8	45.3	115	1106	1061	1953	877	232	110	65.0	43.2	28.7
(WY)	1942	1947	1937	1952	1941	1938	1941	1941	1941	1941	1941	1941
MIN	.39	.29	.14	2.16	1.72	2.71	2.54	1.34	1.64	.92	.37	.23
(WY)	1936	1937	1933	1949	1949	1951	1951	1933	1936	1936	1935	1935

SUMMARY STATISTICS

WATER YEARS 1933 - 1957

ANNUAL TOTAL	
ANNUAL MEAN	72.9
HIGHEST ANNUAL MEAN	359 1941
LOWEST ANNUAL MEAN	2.31 1951
HIGHEST DAILY MEAN	17900 Mar 2 1938
LOWEST DAILY MEAN	.00 Apr 27 1934
ANNUAL SEVEN-DAY MINIMUM	.00 Oct 1 1934
INSTANTANEOUS PEAK FLOW	63600 Feb 10 1978
INSTANTANEOUS PEAK STAGE	29.30 Feb 25 1969
ANNUAL RUNOFF (AC-FT)	52800
10 PERCENT EXCEEDS	84
50 PERCENT EXCEEDS	11
90 PERCENT EXCEEDS	2.2

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	8.79	21.0	29.8	161	288	223	79.8	37.4	22.2	16.0	11.8	10.3
MAX	50.3	282	240	1883	1901	1804	766	248	90.5	49.1	27.8	26.2
(WY)	1984	1966	1966	1969	1969	1983	1983	1983	1978	1983	1978	1983
MIN	.000	.000	.11	1.88	2.04	3.17	3.19	2.89	2.07	1.48	.63	.005
(WY)	1995	1995	1995	1991	1961	1961	1961	1961	1961	1961	1994	1994

SUMMARY STATISTICS

FOR 1994 CALENDAR YEAR

FOR 1995 WATER YEAR

WATER YEARS 1960 - 1995

ANNUAL TOTAL	3059.65	140045.44	
ANNUAL MEAN	8.38	384	74.7
HIGHEST ANNUAL MEAN			384 1995
LOWEST ANNUAL MEAN			2.22 1961
HIGHEST DAILY MEAN	569 Feb 20	16800 Jan 10	22000 Feb 9 1978
LOWEST DAILY MEAN	.00 Aug 27	.00 Oct 1	.00 Nov 28 1977
ANNUAL SEVEN-DAY MINIMUM	.00 Sep 7	.00 Oct 1	.00 Sep 7 1994
INSTANTANEOUS PEAK FLOW		43700 Jan 10	63600 Feb 10 1978
INSTANTANEOUS PEAK STAGE		21.16 Jan 10	29.30 Feb 25 1969
ANNUAL RUNOFF (AC-FT)	6070	277800	54090
10 PERCENT EXCEEDS	12	853	56
50 PERCENT EXCEEDS	2.9	43	12
90 PERCENT EXCEEDS	.00	.00	3.4

VENTURA RIVER BASIN

11118500 VENTURA RIVER NEAR VENTURA, CA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--December 1907 to December 1908, water years 1967 to current year.

CHEMICAL DATA: December 1907 to December 1908, water years 1967-79.

WATER TEMPERATURE: Water years 1969, 1971-73, 1975-81, 1986.

SEDIMENT DATA: Water years 1969-73, 1975 to current year.

PERIOD OF DAILY RECORD.--

WATER TEMPERATURE: October 1968 to September 1969, October 1970 to September 1973, October 1974 to September 1981, October 1985 to September 1986.

SUSPENDED-SEDIMENT DISCHARGE: October 1968 to September 1973, October 1974 to September 1981, October 1985 to September 1986.

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, DIS- CHARGE, SUS- PENDE (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (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									
05...	1310	35	13.0	284	27	--	--	--	--
11...	1600	1850	14.0	2270	11300	16	20	28	38
13...	1630	1000	14.0	330	891	--	--	--	--
24...	1330	5470	12.0	5820	86000	13	18	21	31
24...	1350	5470	12.0	7460	110000	--	--	--	--
24...	1405	5430	12.0	9020	132000	--	--	--	--
26...	1715	2960	14.0	790	6310	--	--	--	--
MAR									
06...	1655	1180	14.5	314	1000	--	--	--	--

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								
05...	--	100	--	--	--	--	--	--
11...	48	60	66	76	88	96	100	--
13...	--	67	69	76	88	96	100	--
24...	43	56	70	85	95	98	99	100
24...	--	46	--	--	--	--	--	--
24...	--	44	--	--	--	--	--	--
26...	--	44	51	64	85	97	100	--
MAR								
06...	--	46	--	--	--	--	--	--

11118500 VENTURA RIVER NEAR VENTURA, CA--Continued

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

DATE	TIME	SAM- PLING 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 24...	1415	1000	1110	0.250	0	1400	1420	10	10.0
MAR 07...	0850	1000	1110	0.250	0	840.00	905.00	15	5.0

DATE	COMPSTD SAMPLES IN X-SEC BEDLOAD MEASMT (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 24...	1	5	5	2.50	6210	12.0	10.0	500	--
MAR 07...	1	15	15	2.50	952	14.5	0.25	19	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...	4	8	9	9	11	16	32	56	100
MAR 07...	9	28	48	63	75	86	100	--	--

11119500 CARPINTERIA CREEK NEAR CARPINTERIA, CA

LOCATION.--Lat 34°24'05", long 119°29'08", in El Rincon Grant, Santa Barbara County, Hydrologic Unit 18060013, on right bank 100 ft upstream from bridge on State Highway 192, 165 ft downstream from Gobernador Creek, and 1.8 mi northeast of Carpinteria.

DRAINAGE AREA.--13.1 mi².

PERIOD OF RECORD.--January 1941 to September 1977, October 1978 to current year.

REVISED RECORDS.--WSP 1061: 1943. WSP 1928: Drainage area.

GAGE.--Water-stage recorder and crest-stage gage. Elevation of gage is 130 ft above sea level, from topographic map. Prior to July 1, 1958, at site 100 ft downstream, at datum 6.00 ft higher. July 2, 1958, to Aug. 27, 1970, at site 65 ft downstream at datum 4.00 ft higher. Aug. 28, 1970, to Sept. 30, 1977, at site 100 ft downstream at same datum.

REMARKS.--Records poor. No regulation upstream from station. Gobernador Land and Water Co. diverts from Gobernador Creek 1.8 mi upstream from station. Small lake 0.8 mi southeast of station and outside the drainage area stores storm runoff and surplus water diverted from Gobernador Creek by Gobernador Land and Water Co. At times this lake is drained by pumping water back into Gobernador Creek 1,000 ft upstream from station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 8,880 ft³/s, Dec. 27, 1971, gage height, 14.10 ft, from floodmark, from rating curve extended above 130 ft³/s on basis of slope-area measurement of peak flow; no flow at times each year.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 125 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Jan. 10	unknown	*7,960	*13.05	Mar. 10	2045	2,680	7.97
Jan. 24	unknown	1,190	6.50	Mar. 23	0445	857	6.05

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	e13	e7.0	22	8.5	4.1	4.2	1.0	.12
2	.00	.00	.00	.00	e12	e18	21	7.9	4.0	3.7	1.1	.10
3	.00	.00	.00	e1.5	e10	e17	20	7.7	4.0	3.7	1.0	.09
4	.00	.00	.00	e40	e10	e15	19	7.7	4.2	3.7	.98	.11
5	.00	.00	.00	e6.0	e9.0	e100	18	7.2	4.9	3.6	.90	.11
6	.00	.00	.00	e.90	e8.0	e60	18	6.9	4.9	3.0	1.4	.07
7	.00	.00	.00	e6.0	e9.0	e40	17	6.9	4.9	3.1	.98	.08
8	.00	.00	.00	e60	e20	31	17	7.1	4.9	2.4	.74	.14
9	.00	.00	.00	e450	e16	28	16	7.2	4.9	2.2	.75	.18
10	.00	.00	.00	e4000	e12	529	15	6.9	4.9	1.9	.66	.25
11	.00	.00	.00	e950	e9.0	513	15	6.5	4.9	1.8	.53	.24
12	.00	.00	.00	e250	e7.0	171	14	6.1	4.8	1.7	.49	.11
13	.00	.00	.00	e50	e6.8	77	13	6.0	4.3	1.5	.42	.07
14	.00	.00	.00	e38	e80	62	14	6.6	4.3	1.3	.54	.06
15	.00	.00	.00	e25	e30	49	13	13	5.0	.88	.41	.06
16	.00	.00	.00	e18	e24	41	13	8.2	6.2	.88	.55	.07
17	.00	.00	.00	e15	e17	39	12	6.6	5.9	1.2	.49	.20
18	.00	.00	.00	e11	e16	27	12	6.2	5.0	1.2	.53	.20
19	.00	.00	.00	e8.0	e14	24	11	5.7	4.5	1.1	.43	.16
20	.00	.00	.00	e16	e13	27	11	5.2	4.3	.93	.44	.11
21	.00	.00	.00	e11	e12	35	11	5.2	4.2	.70	.42	.20
22	.00	.00	.00	e9.0	e11	30	11	5.2	3.7	.74	.46	.18
23	.00	.00	.00	e90	e10	305	9.4	5.4	3.7	.83	.40	.14
24	.00	.00	.00	e800	e9.6	80	9.0	5.8	3.5	.86	.34	.16
25	.00	.00	.00	e350	e9.0	57	8.8	5.8	3.5	.76	.32	.14
26	.00	.00	.00	e150	e8.4	47	8.3	5.5	3.8	.80	.29	.19
27	.00	.00	.00	e60	e8.0	43	8.6	5.2	4.3	1.1	.26	.25
28	.00	.00	.00	e28	e7.0	41	8.8	5.2	4.3	1.1	.24	.29
29	.00	.00	.00	e21	---	36	9.0	5.1	4.3	.89	.18	.32
30	.00	.00	.00	e18	---	25	9.0	4.8	4.3	.86	.16	.23
31	.00	---	.00	e15	---	24	---	4.3	---	.90	.13	---
TOTAL	0.00	0.00	0.00	7497.40	410.8	2598.0	403.9	201.6	134.5	53.53	17.54	4.63
MEAN	.000	.000	.000	242	14.7	83.8	13.5	6.50	4.48	1.73	.57	.15
MAX	.00	.00	.00	4000	80	529	22	13	6.2	4.2	1.4	.32
MIN	.00	.00	.00	.00	6.8	7.0	8.3	4.3	3.5	.70	.13	.06
AC-FT	.00	.00	.00	14870	815	5150	801	400	267	106	35	9.2

e Estimated.

CARPINTERIA CREEK BASIN

319

11119500 CARPINTERIA CREEK NEAR CARPINTERIA, CA--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1941 - 1995, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	.094	.83	2.45	13.6	13.7	9.44	4.16	.94	.38	.17	.071	.068
MAX	3.59	16.7	38.9	242	209	83.8	67.8	9.93	4.48	2.23	1.21	.99
WY)	1984	1966	1967	1995	1969	1995	1958	1983	1995	1941	1983	1976
MIN	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
WY)	1946	1944	1948	1945	1948	1947	1947	1945	1942	1942	1942	1942

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1941 - 1995	
ANNUAL TOTAL	183.49		11321.90			
ANNUAL MEAN	.50		31.0		3.59	
HIGHEST ANNUAL MEAN					33.5	
LOWEST ANNUAL MEAN					.000	
HIGHEST DAILY MEAN	60	Feb 20	4000	Jan 10	4000	Jan 10 1995
LOWEST DAILY MEAN	.00	Apr 19	.00	Oct 1	.00	Jan 4 1941
ANNUAL SEVEN-DAY MINIMUM	.00	Apr 30	.00	Oct 1	.00	Nov 18 1941
INSTANTANEOUS PEAK FLOW			7960	Jan 10	8880	Dec 27 1971
INSTANTANEOUS PEAK STAGE			13.05	Jan 10	14.10	Dec 27 1971
ANNUAL RUNOFF (AC-FT)	364		22460		2600	
0 PERCENT EXCEEDS	.49		29		2.9	
0 PERCENT EXCEEDS	.00		3.1		.00	
0 PERCENT EXCEEDS	.00		.00		.00	

MISSION CREEK BASIN

11119750 MISSION CREEK NEAR MISSION STREET, AT SANTA BARBARA, CA

LOCATION.--Lat 34°25'35", long 119°43'20", in Pueblo Lands of Santa Barbara, Santa Barbara County, Hydrologic Unit 18060013, on left bank 200 ft downstream from Los Olivos Street in Santa Barbara.

DRAINAGE AREA.--8.38 mi².

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

GAGE.--Water-stage recorder and low-flow concrete control. Concrete-lined channel. Elevation of gage is 105 ft above sea level, from topographic map.

REMARKS.--Records poor. At times water is released to creek for ground-water recharge from Gibraltar Tunnel several miles upstream. Control installed Nov. 26, 1979.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,580 ft³/s, Jan. 18, 1973, gage height, 4.97 ft, from rating curve extended above 41 ft³/s on basis of computation of flow in concrete-lined channel; maximum gage height, 6.60 ft, Jan. 10, 1995; no flow most of each year.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 200 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Jan. 10	0700	(a)	*6.60	Mar. 10	1945	2,240	5.16
Jan. 24	0800	284	2.99	Mar. 23	0245	237	2.86

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	8.1	4.6	13	1.8	.62	.00	.00	e.00
2	.00	.00	.00	.00	8.2	12	13	1.8	.61	.00	.00	e.00
3	.00	.00	.00	15	7.5	12	12	1.7	.58	.00	.00	e.00
4	.05	.00	.00	61	7.3	11	11	1.7	.57	.00	.00	e.00
5	.41	.00	.00	13	6.3	66	11	1.5	.51	.00	.00	e.00
6	.00	.00	.00	1.2	5.9	46	11	1.4	.37	.00	.00	e.00
7	.00	.04	.00	14	6.2	22	9.7	1.4	.34	.00	.00	e.00
8	.00	.08	.00	39	13	16	8.9	1.5	.41	.00	.00	e.00
9	.00	.00	.00	116	10	14	8.5	1.4	.46	.00	.00	e.00
10	.00	3.9	.00	e1390	7.3	285	8.2	1.1	.40	.00	.00	e.00
11	.00	.00	.00	133	5.6	158	6.5	1.0	.28	.00	.00	e.00
12	.00	.00	.00	64	4.6	91	3.8	.84	.20	.00	.00	e.00
13	.00	.00	.00	26	4.5	56	3.6	1.6	.16	.00	.00	e.00
14	.00	.00	.00	26	4.9	42	3.5	1.1	.31	.00	.00	e.00
15	.00	.00	.00	18	19	31	3.2	6.3	.91	.00	.00	e.00
16	.00	.00	.00	12	14	24	4.1	1.6	.95	.00	.00	e.00
17	.00	.00	.00	9.5	11	20	3.1	1.0	.30	.00	e.00	e.00
18	.00	.00	.00	7.5	9.2	16	2.8	.90	.21	.00	e.00	e.00
19	.00	.00	.00	6.5	8.5	14	2.7	.72	.14	.00	e.00	e.00
20	.00	.00	.00	11	8.0	14	2.5	.67	.12	.00	e.00	e.00
21	.00	.00	.00	7.7	7.9	27	2.4	.68	.37	.00	e.00	e.00
22	.00	.00	.00	6.8	7.7	23	2.2	.71	.00	.00	e.00	e.00
23	.00	.00	.00	46	7.1	99	2.1	.71	.00	.00	e.00	e.00
24	.00	.00	.93	214	6.7	47	2.0	.64	.00	.00	e.00	e.00
25	.00	.00	.02	107	6.2	32	1.9	.61	.00	.00	e.00	e.00
26	.00	.23	.00	51	5.7	24	1.9	.55	.00	.00	e.00	e.00
27	.00	.00	.00	28	5.5	20	1.9	.51	.00	.00	e.00	e.00
28	.00	.22	.00	18	4.6	18	1.9	.52	.00	.00	e.00	e.00
29	.00	.09	.00	14	---	17	1.7	.50	.00	.00	e.00	e.00
30	.00	.00	.00	11	---	15	1.7	.46	.00	.00	e.00	e.00
31	.00	---	.00	9.4	---	14	---	.45	---	.00	e.00	---
TOTAL	0.46	4.56	0.95	2475.60	264.6	1290.6	161.8	37.37	8.82	0.00	0.00	0.00
MEAN	.015	.15	.031	79.9	9.45	41.6	5.39	1.21	.29	.000	.000	.000
MAX	.41	3.9	.93	1390	49	285	13	6.3	.95	.00	.00	.00
MIN	.00	.00	.00	.00	4.5	4.6	1.7	.45	.00	.00	.00	.00
AC-FT	.9	9.0	1.9	4910	525	2560	321	74	17	.00	.00	.00

a Discharge not determined.

e Estimated.

MISSION CREEK BASIN

321

11119750 MISSION CREEK NEAR MISSION STREET, AT SANTA BARBARA, 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	.12	1.14	2.37	9.00	10.7	9.91	2.15	.82	.14	.025	.044	.16
MAX	2.01	14.0	13.9	79.9	54.8	62.3	17.2	8.88	1.25	.49	1.08	1.37
(WY)	1984	1973	1972	1995	1978	1978	1983	1983	1983	1983	1983	1983
MIN	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
(WY)	1971	1975	1973	1976	1972	1972	1972	1972	1971	1971	1971	1971

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1971 - 1995	
ANNUAL TOTAL	190.99		4244.76			
ANNUAL MEAN	.52		11.6		3.02	
HIGHEST ANNUAL MEAN					15.1	
LOWEST ANNUAL MEAN					.12	
HIGHEST DAILY MEAN	55	Feb 20	1390	Jan 10	1390	Jan 10 1995
LOWEST DAILY MEAN	.00	Jan 1	.00	Oct 1	.00	Oct 1 1970
ANNUAL SEVEN-DAY MINIMUM	.00	Jan 1	.00	Oct 6	.00	Oct 1 1970
INSTANTANEOUS PEAK FLOW			(a)		2580	Jan 18 1973
INSTANTANEOUS PEAK STAGE			6.60	Jan 10	6.60	Jan 10 1995
ANNUAL RUNOFF (AC-FT)	379		8420		2180	
10 PERCENT EXCEEDS	.27		17		3.0	
50 PERCENT EXCEEDS	.00		.00		.00	
90 PERCENT EXCEEDS	.00		.00		.00	

(a) Discharge not determined.

11119940 MARIA YGNACIO CREEK AT UNIVERSITY DRIVE, NEAR GOLETA, CA

LOCATION.--Lat 34°26'42", long 119°48'10", in Goleta Grant, Santa Barbara County, Hydrologic Unit 18060013, on right bank at University Drive, 0.2 mi east of Patterson Avenue, and 1.5 mi northeast of Goleta.

DRAINAGE AREA.--6.35 mi².

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

GAGE.--Water-stage recorder and concrete control. Elevation of gage is 60 ft above sea level, from topographic map.

REMARKS.--Records poor. No regulation upstream from station. Some pumping for irrigation.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 4,600 ft³/s, Mar. 10, 1995, gage height, 10.16 ft, from rating curve extended above 3,000 ft³/s on basis of slope-area measurement of peak flow; no flow most of each year.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 75 ft³/s and maximum (*), from rating curve extended as explained above:

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Jan. 4	1945	313	3.05	Feb. 14	0445	190	2.54
Jan. 10	0745	2,110	6.80	Mar. 10	1930	*4,600	*10.16
Jan. 24	0730	497	3.39	Mar. 23	0100	556	3.75

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	5.8	1.2	e8.0	e2.2	e1.6	e.42	e.00	.01
2	.00	.00	.00	.00	5.2	3.1	e7.5	e2.1	e1.4	e.42	e.00	.03
3	.00	.00	.00	3.1	4.2	2.0	e6.7	e2.0	e1.4	e.38	e.00	.01
4	.00	.00	.00	50	3.2	1.6	e6.3	e1.9	e1.4	e.37	e.00	.00
5	.05	.00	.00	8.0	2.3	20	e6.0	e1.9	e1.3	e.42	e.00	.00
6	.00	.00	.00	.49	2.4	4.1	e5.7	e1.8	e1.0	e.38	e.00	.00
7	.00	.02	.00	8.9	2.0	1.5	e5.5	e1.8	e1.0	e.44	e.00	.00
8	.00	.01	.00	63	5.5	.48	e5.4	e1.7	e1.2	e.43	e.00	.00
9	.00	.00	.00	76	2.8	3.1	e5.3	e1.7	e1.2	e.42	e.00	.00
10	.00	4.4	.00	629	1.9	355	e5.2	e1.6	e.82	e.40	e.00	.01
11	.00	.00	.00	130	.95	e150	e5.0	e1.6	e.72	e.40	e.00	.02
12	.00	.00	.00	64	.75	e50	e5.0	e1.5	e.65	e.85	e.00	.01
13	.00	.00	.00	47	.84	e20	e5.0	e1.5	e.65	e.23	e.00	.00
14	.00	.00	.00	43	51	e15	e4.9	e2.0	e.60	e.12	e.00	.00
15	.00	.00	.00	47	15	e10	e4.8	e1.8	e1.2	e.12	e.00	.00
16	.00	.00	.00	37	8.0	e7.5	e6.5	e3.2	e1.2	e.07	e.00	.00
17	.00	.00	.00	29	5.5	e6.0	e4.5	e8.5	e.50	e.35	e.00	.00
18	.00	.00	.00	21	4.9	e5.0	e4.2	e3.8	e.40	e.05	.02	.00
19	.00	.00	.00	17	3.8	e4.2	e4.0	e2.1	e.31	e.02	.05	.00
20	.00	.00	.00	27	3.6	e4.0	e3.8	e1.8	e.28	e.00	.06	.00
21	.00	.00	.00	25	2.5	6.3	e3.5	e1.7	e.26	e.00	.06	.00
22	.00	.00	.00	19	2.4	2.1	e3.4	e1.6	e.27	e.00	.01	.00
23	.00	.00	.00	58	2.3	82	e3.3	e1.4	e.35	e.00	.01	.00
24	.00	.00	1.2	256	2.0	e50	e3.0	e1.4	e.40	e.00	.02	.00
25	.00	.00	.10	113	1.9	e30	e2.9	e1.5	e.43	e.00	.08	.00
26	.00	.00	.00	40	1.3	e25	e2.8	e1.4	e.58	e.00	.06	.00
27	.00	.00	.00	27	1.0	e18	e2.7	e1.4	e.62	e.00	.06	.00
28	.00	.00	.00	21	.97	e16	e2.5	e1.6	e.42	e.00	.04	.00
29	.00	.00	.00	17	---	e13	e2.4	e1.6	e.42	e.00	.00	.00
30	.00	.00	.00	12	---	e11	e2.3	e1.6	e.42	e.00	.00	.00
31	.00	---	.00	8.2	---	e9.0	---	e1.6	---	e.00	.00	---
TOTAL	0.05	4.43	1.30	1896.69	144.01	926.18	138.1	63.3	23.00	6.29	0.47	0.09
MEAN	.002	.15	.042	61.2	5.14	29.9	4.60	2.04	.77	.20	.015	.003
MAX	.05	4.4	1.2	629	51	355	8.0	8.5	1.6	.85	.08	.03
MIN	.00	.00	.00	.00	.75	.48	2.3	1.4	.26	.00	.00	.00
AC-FT	.1	8.8	2.6	3760	286	1840	274	126	46	12	.9	.2

e Estimated.

ATASCADERO CREEK BASIN

323

11119940 MARIA YGNACIO CREEK AT UNIVERSITY DRIVE, NEAR GOLETA, 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	.098	.25	1.31	6.13	7.35	7.88	1.07	.30	.11	.040	.029	.042
MAX	2.05	2.35	8.18	61.2	34.6	32.9	7.64	3.42	1.15	.52	.27	.50
(WY)	1984	1983	1984	1995	1978	1978	1983	1983	1983	1983	1983	1983
MIN	.000	.000	.000	.002	.001	.000	.000	.000	.000	.000	.000	.000
(WY)	1971	1975	1990	1989	1977	1972	1972	1972	1971	1971	1971	1971

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR				FOR 1995 WATER YEAR				WATER YEARS 1971 - 1995			
ANNUAL TOTAL	133.15				3203.91							
ANNUAL MEAN	.36				8.78				2.03			
HIGHEST ANNUAL MEAN									8.78			
LOWEST ANNUAL MEAN									.039			
HIGHEST DAILY MEAN	80				Feb 20				629			
LOWEST DAILY MEAN	.00				Jan 1				.00			
ANNUAL SEVEN-DAY MINIMUM	.00				Jan 1				.00			
INSTANTANEOUS PEAK FLOW					4600				Mar 10			
INSTANTANEOUS PEAK STAGE					10.16				Mar 10			
ANNUAL RUNOFF (AC-FT)	264				6350				1470			
10 PERCENT EXCEEDS	.12				15				1.4			
50 PERCENT EXCEEDS	.00				.40				.00			
90 PERCENT EXCEEDS	.00				.00				.00			

11120000 ATASCADERO CREEK NEAR GOLETA, CA

LOCATION.--Lat 34°25'29", long 119°48'39", in La Goleta Grant, Santa Barbara County, Hydrologic Unit 18060013, on downstream side of center pier of county road bridge 100 ft downstream from Maria Ygnacio Creek, 1.3 mi upstream from mouth, and 1.3 mi southeast of Goleta.

DRAINAGE AREA.--18.9 mi².

PERIOD OF RECORD.--October 1941 to current year. Prior to October 1947, published as "Alascadero Creek near Goleta."

Sediment concentration: 1982 water year.

Suspended sediment discharge: 1982 water year.

Temperature: 1982 water year.

REVISED RECORDS.--WSP 1635: 1943-45(M), 1947(M). WSP 1928: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 8.59 ft, Santa Barbara County benchmark. Prior to Dec. 14, 1967, at site 275 ft downstream, datum 4.00 ft higher. Dec. 14, 1967, to Sept. 30, 1976, at datum 4.00 ft higher; Oct. 1, 1976, to Sept. 30, 1978, at datum 2.00 ft higher, both at present site.

REMARKS.--Records fair except those for estimated daily discharges, which are poor. No regulation upstream from station. Small diversions for irrigation upstream from station. Some low-flow results from return irrigation wastewater.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 10,200 ft³/s, Mar. 10, 1995, gage height, 12.45 ft, present datum, from rating curve extended above 6,900 ft³/s; maximum gage height, 17.3 ft, from floodmark, Dec. 3, 1974, present datum; no flow for many days in most years.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 260 ft³/s(revised) and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Nov. 10	0700	364	4.72	Feb. 14	0415	411	3.58
Jan. 4	1900	370	4.74	Mar. 5	1515	641	4.02
Jan. 10	0745	4,500	10.07	Mar. 10	1945	*10,200	*12.45
Jan. 24	0630	1,500	5.29	Mar. 23	0300	628	3.92

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	1.1	.00	e31	e28	17	e4.6	2.7	1.5	.00	.00
2	.00	.00	.00	.00	e28	38	16	e4.5	2.5	1.5	.00	.00
3	.00	.00	.00	15	e25	52	15	e4.4	2.7	1.3	.00	.00
4	.00	.00	.00	118	e23	56	14	e4.2	2.7	1.2	.00	.00
5	.64	.00	.00	9.5	e21	215	14	e4.1	2.4	1.4	.00	.00
6	.66	.00	.00	10	e18	58	14	e4.0	2.0	1.2	.00	.00
7	.12	.00	.00	27	e60	29	13	e3.8	2.0	1.5	.00	.00
8	.00	.00	.00	78	107	29	12	e3.6	2.5	1.4	.00	.00
9	.00	.00	.00	72	e90	15	11	e3.5	2.5	1.4	.00	.00
10	.00	129	.00	2120	e60	774	11	e3.4	2.3	.90	.00	.00
11	.00	4.0	.00	132	e30	444	10	e3.2	2.1	.89	.00	.00
12	.00	.10	.01	74	e21	217	10	e3.0	2.0	2.0	.00	.00
13	.00	.00	.29	38	e17	184	9.8	e2.8	2.4	.51	.00	.00
14	.00	.00	.04	62	132	166	9.8	e3.9	2.3	.25	.00	.00
15	.00	.57	.04	31	e90	158	9.2	e3.5	4.7	.26	.00	.00
16	.00	.67	.05	17	e75	e120	14	e6.0	4.7	.15	.00	.00
17	.00	.40	.08	12	e60	e90	9.1	e16	1.9	.76	.00	.00
18	.00	.06	.08	8.1	e45	e80	e8.5	e7.0	1.5	.10	.00	.00
19	.00	.00	.08	3.6	e30	e70	e7.8	e3.7	1.2	.00	.00	.00
20	.00	.00	.05	35	e25	e60	e7.5	e3.3	1.1	.00	.00	.00
21	.00	.00	.58	13	e24	57	e7.2	e3.1	1.0	.00	.00	.00
22	.00	.00	.16	11	e22	44	e6.8	e2.9	1.1	.00	.00	.00
23	.00	.01	.02	225	e20	187	e6.4	e2.4	1.4	.00	.00	.00
24	.00	.02	8.0	894	e19	59	e6.0	e2.5	1.6	.00	.00	.00
25	.00	.04	.13	389	e17	52	e5.8	e2.7	1.7	.00	.00	.00
26	.00	7.0	.00	99	e18	51	e5.6	2.5	2.3	.00	.00	.00
27	.00	1.2	.00	83	e21	e40	e5.4	2.4	2.5	.00	.00	.00
28	.00	.68	.00	e70	e23	e31	e5.0	2.6	1.6	.00	.00	.00
29	.00	.45	.00	e54	---	e25	e4.8	2.7	1.5	.00	.00	.00
30	.00	.49	.00	e45	---	20	e4.7	2.4	1.5	.00	.00	.00
31	.00	---	.00	e35	---	19	---	2.5	---	.00	.00	---
TOTAL	1.42	144.69	10.71	4780.20	1152	3468	290.4	121.2	64.4	18.22	0.00	0.00
MEAN	.046	4.82	.35	154	41.1	112	9.68	3.91	2.15	.59	.000	.000
MAX	.66	129	8.0	2120	132	774	17	16	4.7	2.0	.00	.00
MIN	.00	.00	.00	.00	17	15	4.7	2.4	1.0	.00	.00	.00
AC-FT	2.8	287	21	9480	2280	6880	576	240	128	36	.00	.00

e Estimated.

ATASCADERO CREEK BASIN

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11120000 ATASCADERO CREEK NEAR GOLETA, 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	.31	3.34	5.42	18.1	19.4	14.8	3.93	.58	.17	.048	.062	.26
MAX	8.08	49.8	41.5	230	143	112	63.5	8.69	2.20	.59	1.41	4.68
(WY)	1984	1966	1967	1969	1962	1995	1958	1983	1983	1995	1983	1976
MIN	.000	.000	.000	.000	.000	.010	.000	.000	.000	.000	.000	.000
(WY)	1942	1942	1943	1951	1948	1990	1950	1942	1942	1942	1942	1942

SUMMARY STATISTICS	FOR 1984 CALENDAR YEAR			FOR 1995 WATER YEAR			WATER YEARS 1942 - 1995		
ANNUAL TOTAL	840.88			10051.24					
ANNUAL MEAN	2.30			27.5			5.47		
HIGHEST ANNUAL MEAN							29.0		
LOWEST ANNUAL MEAN							.018		
HIGHEST DAILY MEAN	251			Feb 20			2410		
LOWEST DAILY MEAN	.00			Jan 1			.00		
ANNUAL SEVEN-DAY MINIMUM	.00			Jan 1			.00		
INSTANTANEOUS PEAK FLOW							10200		
INSTANTANEOUS PEAK STAGE							12.45		
ANNUAL RUNOFF (AC-FT)	1670			19940			3970		
10 PERCENT EXCEEDS	.87			58			2.7		
50 PERCENT EXCEEDS	.00			1.4			.02		
90 PERCENT EXCEEDS	.00			.00			.00		

11120500 SAN JOSE CREEK NEAR GOLETA, CA

LOCATION.--Lat 34°27'33", long 119°48'29", in La Goleta Grant, Santa Barbara County, Hydrologic Unit 18060013, on right bank 1.1 mi downstream from unnamed tributary and 1.7 mi northeast of Goleta.

DRAINAGE AREA.--5.51 mi².

PERIOD OF RECORD.--January 1941 to January 1995 (destroyed by flood on January 10, 1995).

CHEMICAL DATA: Water years 1978-91.

REVISED RECORDS.--WSP 1928: Drainage area.

GAGE.--Water-stage recorder, crest-stage gage, and concrete low-water control. Datum of gage is 95.61 ft, Santa Barbara County Road Department datum. Prior to Dec. 24, 1955, at datum 5.50 ft higher. Dec. 24, 1955, to Jan. 10, 1960, at datum 1.5 ft higher. Prior to Oct. 1, 1971, at site 75 ft downstream.

REMARKS.--Records fair. No regulation upstream from station. Many small diversions upstream from station for irrigation. Recording rain gage and satellite telemeter at station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,000 ft³/s, Jan. 25, 1969, gage height, 10.10 ft, from rating curve extended above 400 ft³/s on basis of slope-area measurement at gage height 9.32 ft; maximum gage height, 12.74 ft, present datum, Jan. 21, 1943; no flow at times in most years.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 100 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Jan. 4	1930	340	5.28	Jan. 10	0400	1,470	7.62

Minimum daily, .01 ft³/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	.01	.05	.18	.30	---	---	---	---	---	---	---	---
2	.01	.05	.18	.32	---	---	---	---	---	---	---	---
3	e.02	.05	.18	1.2	---	---	---	---	---	---	---	---
4	.03	.05	.15	42	---	---	---	---	---	---	---	---
5	.24	.05	.15	10	---	---	---	---	---	---	---	---
6	.07	.05	.13	1.9	---	---	---	---	---	---	---	---
7	.04	.05	.14	8.5	---	---	---	---	---	---	---	---
8	.04	.27	.09	65	---	---	---	---	---	---	---	---
9	.04	.38	.07	95	---	---	---	---	---	---	---	---
10	.03	.48	.08	e450	---	---	---	---	---	---	---	---
11	.03	.38	.09	---	---	---	---	---	---	---	---	---
12	.02	.27	.07	---	---	---	---	---	---	---	---	---
13	.02	.23	.19	---	---	---	---	---	---	---	---	---
14	.02	.19	.32	---	---	---	---	---	---	---	---	---
15	.02	.18	.30	---	---	---	---	---	---	---	---	---
16	.02	.18	.15	---	---	---	---	---	---	---	---	---
17	.02	.15	.10	---	---	---	---	---	---	---	---	---
18	.03	.17	.10	---	---	---	---	---	---	---	---	---
19	.03	.23	.10	---	---	---	---	---	---	---	---	---
20	.03	.21	.11	---	---	---	---	---	---	---	---	---
21	.03	.15	.12	---	---	---	---	---	---	---	---	---
22	.03	.15	.12	---	---	---	---	---	---	---	---	---
23	.04	.15	.12	---	---	---	---	---	---	---	---	---
24	.03	.15	.55	---	---	---	---	---	---	---	---	---
25	.03	.13	.37	---	---	---	---	---	---	---	---	---
26	.03	.19	.27	---	---	---	---	---	---	---	---	---
27	.03	.23	.27	---	---	---	---	---	---	---	---	---
28	.03	.23	.27	---	---	---	---	---	---	---	---	---
29	.04	.21	.27	---	---	---	---	---	---	---	---	---
30	.05	.18	.27	---	---	---	---	---	---	---	---	---
31	.05	---	.27	---	---	---	---	---	---	---	---	---
TOTAL	1.16	5.44	5.78	---	---	---	---	---	---	---	---	---
MEAN	.037	.18	.19	---	---	---	---	---	---	---	---	---
MAX	.24	.48	.55	---	---	---	---	---	---	---	---	---
MIN	.01	.05	.07	---	---	---	---	---	---	---	---	---
AC-FT	2.3	11	11	---	---	---	---	---	---	---	---	---

e Estimated.

11120500 SAN JOSE CREEK NEAR GOLETA, CA--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1941 - 1995, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	.25	1.11	2.37	5.55	7.42	5.73	2.73	.73	.29	.15	.13	.14
MAX	6.40	21.2	23.5	35.6	53.4	37.3	29.0	4.81	1.69	.98	.89	1.40
(WY)	1984	1966	1967	1952	1962	1978	1958	1983	1983	1983	1954	1954
MIN	.000	.000	.000	.000	.021	.10	.021	.000	.000	.000	.000	.000
(WY)	1947	1948	1948	1948	1948	1990	1990	1948	1946	1946	1946	1946

SUMMARY STATISTICS

FOR 1994 CALENDAR YEAR

WATER YEARS 1941 - 1995

ANNUAL TOTAL	242.04		
ANNUAL MEAN	.66	2.05	
HIGHEST ANNUAL MEAN		9.80	1983
LOWEST ANNUAL MEAN		.042	1948
HIGHEST DAILY MEAN	63	Feb 20	602
LOWEST DAILY MEAN	.00	Jul 11	.00
ANNUAL SEVEN-DAY MINIMUM	.00	Sep 8	.00
INSTANTANEOUS PEAK FLOW			2000
INSTANTANEOUS PEAK STAGE			12.74
ANNUAL RUNOFF (AC-FT)	480		1480
10 PERCENT EXCEEDS	1.1		2.0
50 PERCENT EXCEEDS	.18		.23
90 PERCENT EXCEEDS	.01		.00

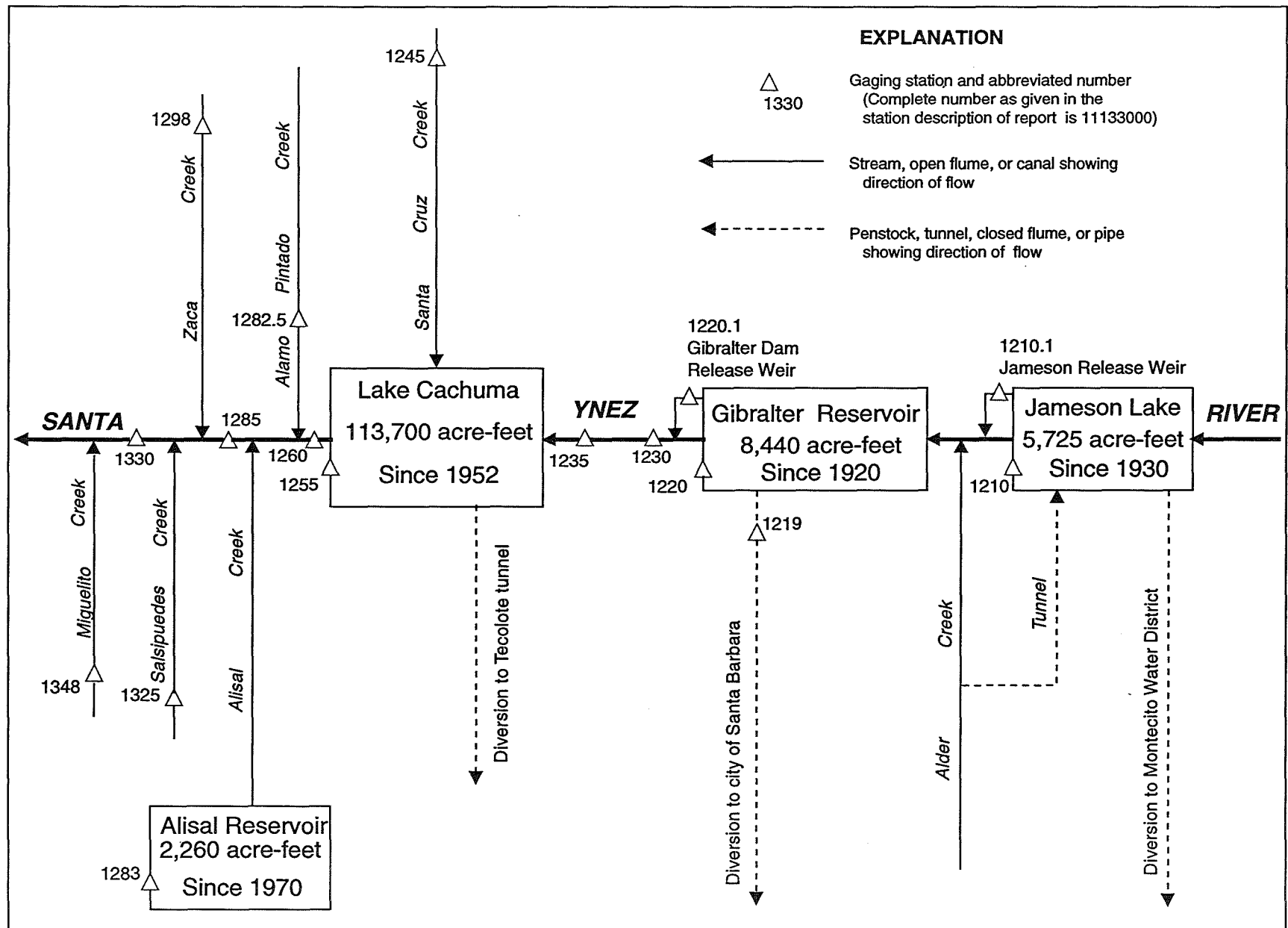


Figure 18. Diversions and storage in Santa Ynez River basin.

11121000 SANTA YNEZ RIVER AT JAMESON LAKE, NEAR MONTECITO, CA

LOCATION.--Lat 34°29'32", long 119°30'25", in NE 1/4 NW 1/4 sec.28, T.5 N., R.25 W., Santa Barbara County, Hydrologic Unit 18060010, on upstream face of Juncal Dam, 6.5 mi north of Carpinteria, and 8 mi northeast of Montecito.

DRAINAGE AREA.--13.9 mi², excludes area of Alder Creek.

PERIOD OF RECORD.--December 1930 to current year. Prior to October 1938, published as "at Juncal Reservoir, near Montecito."

GAGE.--Two water-stage recorders. Datum of lake gage is 2,021.6 ft U.S. Bureau of Reclamation Datum or 2,000 ft above sea level. Supplementary gage and sharp-crested weir on outlet conduit of lake release, at different datum.

REMARKS.--Records of total inflow represent all water reaching Jameson Lake, including precipitation on the lake. Total inflow computed on basis of records of storage, diversion (draft) (station 11121010) to city of Montecito, spill and release (station 11121000) to river, evaporation, and seepage. Records of net inflow exclude precipitation on lake surface. Monthly evaporation from lake surface computed on basis of evaporation from U.S. Weather Bureau Class A land pan. Area and capacity tables are based on survey made in 1994. Lake capacity at spillway level, gage height 223.82 ft, 5,213 acre-ft. Dead storage, 32 acre-ft, below lowest outlet at gage height 139.0 ft included in these records. There is no regulation or diversion upstream from station. At times flow of Alder Creek, which enters Santa Ynez River 2 mi downstream from Juncal Dam, is diverted at elevation 2,250 ft through a tunnel to Jameson Lake and is included in these records.

COOPERATION.--Reservoir-operation records and related data provided by Montecito Water District.

AVERAGE DISCHARGE.--64 years (water years 1932-95), spill and release, 8.18 ft³/s, 5,930 acre-ft/yr.

MONTHLY NET INFLOW, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

Date	Elevation (feet) ^a	Contents (acre- feet)	Change in contents (acre- feet)	Draft (acre- feet)	Spill and release (acre- feet)	Evapo- ration and seepage (acre- feet)	Total inflow (acre- feet)	Rain on reservoir (acre- feet)	Net inflow (acre- feet)
Sept. 30.....	2,214.39	3,840	--	--	--	--	--	--	--
Oct. 31.....	2,212.81	3,660	-180	177	0	28	25	25	0
Nov. 30.....	2,211.57	3,530	-130	126	0	16	12	12	0
Dec. 31.....	2,210.56	3,420	-110	135	0	4	29	14	15
CAL YR 1994.....	--	--	-1,300	1,743	725	366	1,534	236	1,298
Jan. 31.....	2,224.24	5,270	+1,850	68	13,320	1	15,239	435	14,805
Feb. 28.....	2,224.04	5,240	-30	56	4,580	4	4,610	8	4,602
Mar. 31.....	2,224.22	5,260	+20	61	14,090	3	14,174	223	13,951
Apr. 30.....	2,224.07	5,240	-20	60	4,740	5	4,785	6	4,779
May 31.....	2,224.08	5,240	0	64	2,610	5	2,679	30	2,649
June 30.....	2,224.01	5,240	0	102	1,920	7	2,029	3	2,026
July 31.....	2,223.70	5,200	-40	148	321	38	467	0	467
Aug. 31.....	2,222.48	5,050	-150	174	0	62	86	0	86
Sept. 30.....	2,221.12	4,890	-160	172	0	46	58	0	58
WTR YR 1995.....	--	--	+1,150	1,343	41,581	219	44,293	756	43,537

^a Elevation at 0800.

NOTE.--For months when inflow to the lake was small and other quantities were large, preliminary computations may indicate negative net inflow. This arises primarily from the difficulty of computing net inflow as the residual of several large quantities, which are not conducive to precise measurement. When this occurs, evaporation and seepage is adjusted to produce non-negative inflows.

SANTA YNEZ RIVER BASIN

11122000 SANTA YNEZ RIVER ABOVE GIBRALTAR DAM, NEAR SANTA BARBARA, CA

LOCATION.--Lat 34°31'34", long 119°41'08", in NW 1/4 SW 1/4 sec.11, T.5 N., R.27 W., Santa Barbara County, Hydrologic Unit 18060010, on upstream face of Gibraltar Dam and 7 mi north of Santa Barbara.

DRAINAGE AREA.--216 mi².

PERIOD OF RECORD.--April 1920 to current year. November 1903 to November 1918 (fragmentary) at river station at damsite; records not equivalent because records since April 1920 are based on operation of Gibraltar Reservoir, and since December 1930, Jameson Lake. Prior to October 1945, published as "Santa Ynez River near Santa Barbara."

REVISED RECORDS.--WSP 706: 1921-22. WSP 1041: 1944. WSP 1395: DA. WSP 1635: 1914, 15 (M). WDR CA-86-1: 1934-43.

GAGE.--Two water-stage recorders. Datum of gage is sea level. Supplementary gage and sharp-crested weir on diversion from reservoir at different datum. See WSP 1735 for history of changes on both gages prior to Oct. 1, 1955. Spill and release measured by station (11123000) downstream from dam.

REMARKS.--Records of total inflow represent all water reaching Gibraltar Reservoir, including precipitation on reservoir. Total inflow computed on basis of records of storage, diversion (draft--station 11121900) to city of Santa Barbara, spill and release (station 11123000) to river, evaporation, and seepage. Records of net inflow exclude precipitation on reservoir surface. Monthly evaporation from reservoir surface computed on basis of evaporation from U.S. Weather Bureau Class A land pan. Area and capacity tables are based on survey made in February 1989. Reservoir capacity at spillway level, elevation, 1,399.82 ft, 8,440 acre-feet. Lowest outlet at elevation 1,333.86 ft. Flow regulated by Jameson Lake (station 11121000) since December 1930.

COOPERATION.--Reservoir-operation records and related data provided by city of Santa Barbara.

MONTHLY NET INFLOW, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

Date	Eleva- tion (feet) ^a	Contents (acre- feet)	Change in contents (acre- feet)	Draft (acre- feet)	Spill and release (acre- feet)	Evapo- ration and seepage (acre- feet)	Total inflow (acre- feet)	Rain on reservoir (acre- feet)	Net inflow (acre- feet)
Sept. 30.....	1,392.20	6,580	--	--	--	--	--	--	--
Oct. 31.....	1,391.97	6,520	-60	0	6.6	94	41	41	0
Nov. 30.....	1,391.48	6,410	-110	40	1.2	92	23	23	0
Dec. 31.....	1,389.27	5,920	-490	501	0	29	40	27	13
CAL YR 1994.....	--	--	-1,180	3,375	6,586	1,071	9,852	354	9,498
Jan. 31.....	1,399.89	8,540	+2,620	127	88,110	19	90,876	776	90,100
Feb. 28.....	1,399.82	8,520	+20	12	22,120	57	22,209	83	22,126
Mar. 31.....	1,399.77	8,510	-10	10	90,270	56	90,326	382	89,944
Apr. 30.....	1,399.77	8,510	0	166	20,900	120	21,186	8	21,178
May 31.....	1,399.85	8,530	+20	430	9,110	111	9,671	40	9,631
June 30.....	1,399.81	8,520	-10	601	3,410	176	4,177	0	4,177
July 31.....	1,398.77	8,240	-280	567	628	1,022	1,939	0	1,937
Aug. 31.....	1,394.06	7,000	-1,240	548	1,480	207	995	0	995
Sept. 30.....	1,391.32	6,370	-360	549	2.9	136	58	0	58
WTR YR 1995.....	--	--	-170	3,551	236,039	2,046	241,538	1,380	240,159

a Elevation at 0800.

NOTE.--For months when inflow to the lake was small and other quantities were large, preliminary computations may indicate negative net inflow. This arises primarily from the difficulty of computing net inflow as the residual of several large quantities, which are not conducive to precise measurement. When this occurs, evaporation and seepage is adjusted to produce non-negative inflows.

11123000 SANTA YNEZ RIVER BELOW GIBRALTAR DAM, NEAR SANTA BARBARA, CA

LOCATION.--Lat 34°31'28", long 119°41'11", in SW 1/4 SW 1/4 sec.11, T.5 N., R.27 W., Santa Barbara County, Hydrologic Unit 18060010, on left bank 700 ft downstream from Gibraltar Dam and 7 mi north of Santa Barbara.

DRAINAGE AREA.--216 mi².

PERIOD OF RECORD.--April 1920 to current year. Monthly discharge only prior to October 1933. Daily records for water years 1934-43 in files of U.S. Geological Survey.

REVISED RECORDS.--WDR CA-86-1: 1934-43.

GAGE.--Two water-stage recorders. Datum of gage on main channel is 1,227 ft above sea level. Supplementary gage and sharp-crested weir on the release channel from Gibraltar Dam to river at different datum (station 11122010). See WSP 1735 for history of changes on both gages prior to May 20, 1958.

REMARKS.--No estimated daily discharges. Records fair. Flow regulated by Jameson Lake (station 11121000) and Gibraltar Reservoir (station 11122000). City of Santa Barbara diverted 4,382 acre-ft during current year from Gibraltar Reservoir; Montecito Water District diverted 1,340 acre-ft during current year from Jameson Lake. See schematic diagram of Santa Ynez River basin.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 54,200 ft³/s, Jan. 25, 1969, gage height, 25.8 ft, from rating curve extended above 2,100 ft³/s on basis of computations of flow from gate openings and flow over dam at gage heights 17.5 and 25.8 ft; no flow at times in most years.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 16,200 ft³/s, Jan. 10, gage height, 17.72 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	.13	.02	.00	.00	602	258	664	181	83	13	16	.47
2	.14	.00	.00	.00	521	256	614	183	84	15	17	.21
3	.13	.00	.00	.00	450	318	558	181	86	16	17	.26
4	.22	.00	.00	3.6	423	277	575	176	85	17	17	.26
5	.40	.00	.00	.96	379	1930	500	171	82	17	17	.07
6	.22	.00	.00	.27	362	1740	486	169	77	16	17	.08
7	.16	.00	.00	.78	350	887	476	166	71	14	14	.11
8	.12	.00	.00	3.4	349	718	389	165	71	13	15	.02
9	.11	.00	.00	1410	369	608	422	161	70	11	19	.00
10	.11	.02	.00	10300	302	3030	422	129	68	5.4	18	.00
11	.10	.03	.00	4000	294	8640	394	130	54	2.2	18	.00
12	.11	.03	.00	1630	277	3400	334	134	49	.60	20	.00
13	.11	.03	.00	948	280	2100	326	135	52	.41	20	.00
14	.11	.03	.00	675	1370	1550	337	139	51	.32	21	.00
15	.11	.03	.00	594	714	1250	332	343	53	.27	23	.00
16	.11	.03	.00	428	471	1030	329	188	61	.22	26	.00
17	.11	.03	.00	377	405	894	329	134	68	.17	27	.00
18	.10	.03	.00	298	386	804	273	150	67	.34	28	.00
19	.10	.04	.00	253	321	731	287	150	64	.54	30	.00
20	.10	.04	.00	257	340	674	282	150	65	6.0	28	.00
21	.12	.04	.00	286	312	842	267	150	69	14	29	.00
22	.11	.05	.00	242	301	742	254	150	49	15	30	.00
23	.08	.06	.00	832	301	4410	246	126	36	15	32	.00
24	.06	.05	.00	7300	268	1790	236	125	34	15	32	.00
25	.04	.03	.00	7020	265	1320	198	125	35	15	33	.00
26	.02	.01	.00	2640	264	1110	201	122	34	15	33	.00
27	.02	.00	.00	1510	257	1100	209	115	33	15	32	.00
28	.02	.00	.00	1120	220	870	207	108	31	16	32	.00
29	.02	.00	.00	911	---	801	205	84	23	16	33	.00
30	.02	.00	.00	743	---	752	185	74	14	16	33	.00
31	.02	---	.00	636	---	679	---	78	---	16	20	---
TOTAL	3.33	0.60	0.00	44419.01	11153	45511	10537	4592	1719	316.47	747	1.48
MEAN	.11	.020	.000	1433	398	1468	351	148	57.3	10.2	24.1	.049
MAX	.40	.06	.00	10300	1370	8640	664	343	86	17	33	.47
MIN	.02	.00	.00	.00	220	256	185	74	14	.17	14	.00
AC-FT	6.6	1.2	.00	88110	22120	90270	20900	9110	3410	628	1480	2.9

11123000 SANTA YNEZ RIVER BELOW GIBRALTAR DAM, NEAR SANTA BARBARA, 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	.72	6.57	25.9	130	224	244	104	25.9	6.85	2.83	1.30	.39
MAX	32.6	336	607	2077	2189	1712	1168	258	82.9	43.6	24.1	2.92
(WY)	1984	1966	1967	1969	1969	1983	1958	1983	1983	1983	1995	1958
MIN	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
(WY)	1960	1959	1944	1938	1949	1948	1948	1940	1960	1960	1960	1960

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR				FOR 1995 WATER YEAR				WATER YEARS 1934 - 1995			
ANNUAL TOTAL	3320.67				118999.89							
ANNUAL MEAN	9.10				326				63.6			
HIGHEST ANNUAL MEAN									437			
LOWEST ANNUAL MEAN									.000			
HIGHEST DAILY MEAN	932				10300				26600			
LOWEST DAILY MEAN	.00				.00				.00			
ANNUAL SEVEN-DAY MINIMUM	.00				.00				.00			
INSTANTANEOUS PEAK FLOW					16200				54200			
INSTANTANEOUS PEAK STAGE					17.72				25.80			
ANNUAL RUNOFF (AC-FT)	6590				236000				46070			
10 PERCENT EXCEEDS	16				735				77			
50 PERCENT EXCEEDS	.18				28				.09			
90 PERCENT EXCEEDS	.00				.00				.00			

11123500 SANTA YNEZ RIVER BELOW LOS LAURELES CANYON, NEAR SANTA YNEZ, CA

LOCATION.--Lat 34°32'37", long 119°51'50", in San Marcos Grant, Santa Barbara County, Hydrologic Unit 18060010, on left bank 0.3 mi downstream from Los Laureles Canyon Creek, 10 mi downstream from Gibraltar Reservoir, and 13.3 mi east of Santa Ynez.

DRAINAGE AREA.--277 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--April 1947 to current year. Monthly discharge only for some periods, published in WSP 1315-B.

GAGE.--Water-stage recorder. Datum of gage is 787.8 ft above sea level.

REMARKS.--No estimated daily discharges. Records good. Flow regulated by Jameson Lake and Gibraltar Reservoir (stations 11121000 and 11122000). Water diverted out of basin from these reservoirs to cities of Montecito and Santa Barbara for municipal supply. Low flow affected by intermittent pumping for irrigation from infiltration gallery in riverbed at station. Satellite telemeter at station. See schematic diagram of Santa Ynez River basin.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 67,500 ft³/s, Jan. 25, 1969, gage height, 18.88 ft, from rating curve extended above 11,600 ft³/s on basis of peak flow for station below Gibraltar Dam plus tributary inflow; no flow for many days in each year.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 36,200 ft³/s, Jan. 10, gage height, 14.88 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	.00	.00	.00	.00	463	110	1230	184	68	17	12	8.6
2	.00	.00	.00	.00	383	134	1160	191	70	15	12	6.7
3	.00	.00	.00	.00	296	165	1050	189	71	15	12	4.8
4	.00	.00	.00	54	240	154	981	184	70	15	11	3.9
5	.00	.00	.00	103	214	1580	918	178	67	16	11	3.2
6	.00	.00	.00	15	182	2450	860	171	64	15	11	3.0
7	.00	.00	.00	34	179	1020	831	177	61	14	11	2.7
8	.00	.00	.00	166	176	705	747	177	59	13	10	3.1
9	.00	.00	.00	1850	191	562	697	170	58	12	10	3.3
10	.00	.00	.00	19800	158	4230	705	150	57	12	11	3.0
11	.00	.00	.00	6000	127	15400	668	123	53	11	11	3.3
12	.00	.00	.00	2140	137	5420	606	128	42	9.7	11	2.8
13	.00	.00	.00	1410	125	4050	538	136	40	8.8	9.9	3.0
14	.00	.00	.00	973	1580	3340	553	138	42	8.1	9.6	3.1
15	.00	.00	.00	799	793	2750	530	303	42	7.4	9.1	3.1
16	.00	.00	.00	570	388	2230	531	423	46	7.1	9.0	3.3
17	.00	.00	.00	462	283	1980	509	208	50	7.2	9.7	2.9
18	.00	.00	.00	344	241	1810	449	208	52	7.1	11	3.6
19	.00	.00	.00	259	208	1610	404	208	50	7.1	11	3.7
20	.00	.00	.00	241	181	1460	425	208	45	7.1	10	3.1
21	.00	.00	.00	271	177	1870	392	208	50	7.5	9.9	2.7
22	.00	.00	.00	211	160	1710	359	208	46	5.7	9.9	2.5
23	.00	.00	.00	679	160	7080	339	204	34	8.6	9.6	2.0
24	.00	.00	.00	10500	143	3370	312	204	27	11	9.2	2.3
25	.00	.00	.00	10200	132	2580	268	156	26	11	9.2	2.6
26	.00	.00	.00	3550	133	2080	225	109	26	12	8.7	2.4
27	.00	.00	.00	1900	130	2050	238	101	25	11	8.7	2.5
28	.00	.00	.00	1280	116	1890	236	97	25	11	8.8	2.7
29	.00	.00	.00	982	---	1640	231	91	23	12	8.9	2.7
30	.00	.00	.00	742	---	1460	222	68	20	12	8.7	2.4
31	.00	---	.00	579	---	1380	---	65	---	12	8.6	---
TOTAL	0.00	0.00	0.00	66114.00	7696	78270	17214	5365	1409	338.4	312.5	99.0
MEAN	.0000	.0000	.0000	2133	275	2525	574	173	47.0	10.9	10.1	3.30
MAX	.00	.00	.00	19800	1580	15400	1230	423	71	17	12	8.6
MIN	.00	.00	.00	.00	116	110	222	65	20	5.7	8.6	2.0
IC-FT	.00	.00	.00	131100	15270	155200	34140	10640	2790	671	620	196

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	.47	8.37	37.1	197	307	299	127	35.0	9.04	2.43	.83	.29
MAX	18.8	315	608	2755	2682	2525	1480	320	109	30.3	10.1	4.21
(WY)	1984	1966	1967	1969	1969	1995	1958	1983	1983	1983	1995	1983
MIN	.000	.000	.000	.000	.000	.001	.000	.000	.000	.000	.000	.000
(WY)	1948	1948	1948	1948	1948	1990	1951	1951	1948	1948	1947	1947

FOR 1994 CALENDAR YEAR

FOR 1995 WATER YEAR

WATER YEARS 1947 - 1995

ANNUAL TOTAL	4842.03		176817.90			
ANNUAL MEAN	13.3		484		84.1	
HIGHEST ANNUAL MEAN					554	1969
LOWEST ANNUAL MEAN					.013	1961
HIGHEST DAILY MEAN	1440	Feb 20	19800	Jan 10	33700	Jan 25 1969
LOWEST DAILY MEAN	.00	Aug 24	.00	Oct 1	.00	Jun 24 1947
ANNUAL SEVEN-DAY MINIMUM	.00	Aug 24	.00	Oct 1	.00	Jul 5 1947
INSTANTANEOUS PEAK FLOW			36200	Jan 10	67500	Jan 25 1969
INSTANTANEOUS PEAK STAGE			14.88	Jan 10	18.88	Jan 25 1969
ANNUAL RUNOFF (AC-FT)	9600		350700		60940	
10 PERCENT EXCEEDS	22		1180		87	
50 PERCENT EXCEEDS	2.3		15		.00	
90 PERCENT EXCEEDS	.00		.00		.00	

WATER-QUALITY RECORDS

CHEMICAL DATA: Water years 1973-89, 1991 to current year.

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)	BARO- METRIC PRES- SURE (MM OF HG)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)	HARD- NESS TOTAL (MG/L AS CaCO3)	CALCIUM DIS- SOLVED (MG/L AS Ca)	MAGNE- SIUM, DIS- SOLVED (MG/L AS Mg)
JAN											
12...	1330	2130	473	8.1	11.5	--	--	--	--	--	--
FEB											
14...	1220	2450	904	8.0	12.5	--	--	--	--	--	--
MAR											
07...	1245	1070	837	8.2	13.5	--	--	--	--	--	--
APR											
25...	1325	282	1220	8.1	19.0	738	9.0	101	570	130	60
MAY											
25...	1425	114	1170	7.8	17.0	--	--	--	--	--	--
JUL											
21...	1500	6.3	1180	8.0	18.5	--	--	--	--	--	--
AUG											
17...	1510	11	1250	7.5	25.0	--	--	--	--	--	--

[illegible][illegible]

11124500 SANTA CRUZ CREEK NEAR SANTA YNEZ, CA

LOCATION.--Lat 34°35'48", long 119°54'28", in San Marcos Grant, Santa Barbara County, Hydrologic Unit 18060010, on right bank 0.6 mi downstream from Pine Canyon and 9.9 mi east of Santa Ynez.

DRAINAGE AREA.--74.0 mi².

WATER-DISCHARGE RECORDS

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 783.38 ft above sea level. See WSP 1735 for history of changes prior to Sept. 27, 1952. Sept. 27, 1952, to June 24, 1969, at datum 3.25 ft higher.

REMARKS.--Records fair except those for estimated daily discharges, which are poor. No regulation or diversion upstream from station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 7,050 ft³/s, Feb. 24, 1969, gage height, 14.45 ft, from floodmark, present datum, from rating curve extended above 2,500 ft³/s on basis of slope-area measurement at gage height 14.16 ft; no flow at times since 1953.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 100 ft³/s and maximum (*), from rating curve extended above 160 ft³/s on basis of slope-area measurement at gage height 12.10 ft:

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Jan. 5	0145	171	8.24	Feb. 14	0715	1,060	10.16
Jan. 10	0745	2,740	11.90	Mar. 5	1915	1,750	10.98
Jan. 24	0800	2,240	11.48	Mar. 10	2100	*3,110	*12.19
Feb. 9	0345	108	8.03	Mar. 23	0400	1,210	10.29

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	.54	.85	e160	e41	e180	65	31	14	6.0	2.8
2	.00	.00	.58	.78	e130	e40	e170	62	32	14	5.7	2.8
3	.00	.00	.64	2.5	115	e40	e160	60	32	14	5.7	2.7
4	.00	.00	.69	23	107	e39	e150	59	31	14	5.7	2.7
5	.55	.00	.70	62	101	854	e140	57	30	13	5.6	2.7
6	.24	.00	.74	12	97	356	e130	56	29	12	5.6	2.6
7	.11	.00	.75	17	94	203	e120	55	29	12	5.4	2.5
8	.05	.00	.77	24	94	e180	e115	53	29	12	5.4	2.5
9	.04	.00	.82	272	101	e150	e110	52	28	11	5.0	2.5
10	.03	.70	.84	1260	90	809	e105	50	26	10	4.8	2.7
11	.03	e.63	.90	555	86	1360	e100	48	25	10	4.7	2.7
12	.05	e.55	.96	e300	83	676	e95	47	24	10	4.8	2.7
13	.06	e.47	1.1	e250	81	e550	e92	48	23	10	4.9	2.6
14	.03	e.40	1.0	e200	358	e450	e90	47	23	9.9	4.6	2.5
15	.00	e.32	1.0	e175	104	e370	e88	61	24	9.5	4.5	2.3
16	.02	e.25	1.0	e125	80	e320	e85	54	27	9.5	4.2	2.2
17	.00	.17	.95	e110	73	e280	e83	47	26	9.5	4.2	2.2
18	.00	.21	.94	e95	e65	e250	e80	44	23	9.4	4.1	2.2
19	.00	.20	.89	e70	e60	e220	e79	42	22	9.0	4.0	2.2
20	.00	.22	.84	e80	e57	e200	e78	41	21	8.6	3.9	2.1
21	.00	.22	.83	e90	e55	e240	e77	40	20	8.4	3.7	2.1
22	.00	.21	.76	e70	e52	e230	e75	40	20	8.3	3.6	2.1
23	.00	.19	.76	298	e49	673	e74	39	18	8.3	3.5	2.1
24	.00	.19	1.2	1500	e47	e500	e73	38	18	8.0	3.4	2.1
25	.00	.22	1.7	e650	e46	e410	e72	37	17	8.0	3.3	2.1
26	.00	.32	1.4	e460	e45	e350	e71	36	16	7.9	3.3	2.2
27	.00	.26	1.1	e350	e43	e300	e70	35	15	7.5	3.2	2.2
28	.00	.30	.99	e280	e42	e270	e69	34	15	6.8	3.1	2.4
29	.00	.48	1.0	e240	---	e240	68	33	15	6.5	3.0	2.6
30	.00	.54	.92	e200	---	e220	66	32	15	6.3	2.9	2.6
31	.00	---	.85	e170	---	e190	---	32	---	6.1	2.9	---
TOTAL	1.21	7.05	28.16	7942.13	2515	11011	2965	1444	704	303.5	134.7	72.7
MEAN	.039	.23	.91	256	89.8	355	98.8	46.6	23.5	9.79	4.35	2.42
MAX	.55	.70	1.7	1500	358	1360	180	65	32	14	6.0	2.8
MIN	.00	.00	.54	.78	42	39	66	32	15	6.1	2.9	2.1
AC-FT	2.4	14	56	15750	4990	21840	5880	2860	1400	602	267	144

e Estimated.

11124500 SANTA CRUZ CREEK NEAR SANTA YNEZ, 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	.54	3.05	11.0	37.9	64.1	59.7	34.2	13.4	5.46	1.95	.78	.44
MAX	12.4	50.4	205	510	743	355	378	98.1	40.3	20.5	9.93	4.64
(WY)	1984	1966	1967	1969	1969	1995	1958	1983	1983	1983	1983	1983
MIN	.000	.000	.000	.000	.10	.23	.11	.000	.000	.000	.000	.000
(WY)	1954	1954	1954	1963	1951	1948	1961	1961	1961	1959	1953	1953

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1942 - 1995	
ANNUAL TOTAL	1825.73		27128.45		19.1	
ANNUAL MEAN	5.00		74.3		134	
HIGHEST ANNUAL MEAN					1969	
LOWEST ANNUAL MEAN					1990	
HIGHEST DAILY MEAN	96	Feb 20	1500	Jan 24	5000	Feb 24 1969
LOWEST DAILY MEAN	.00	Aug 7	.00	Oct 1	.00	Jul 6 1953
ANNUAL SEVEN-DAY MINIMUM	.00	Aug 7	.00	Oct 17	.00	Jul 6 1953
INSTANTANEOUS PEAK FLOW			3110	Mar 10	7050	Feb 24 1969
INSTANTANEOUS PEAK STAGE			12.19	Mar 10	14.45	Feb 24 1969
ANNUAL RUNOFF (AC-FT)	3620		53810		13860	
10 PERCENT EXCEEDS	12		201		31	
50 PERCENT EXCEEDS	.99		12		1.0	
90 PERCENT EXCEEDS	.00		.06		.00	

11124500 SANTA CRUZ CREEK NEAR SANTA YNEZ, CA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--

October 1991 to current year.

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)	BARO- METRIC PRES- SURE (MM OF HG)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)	HARD- NESS TOTAL (MG/L AS CaCO3)	CALCIUM DIS- SOLVED (MG/L AS Ca)	MAGNE- SIUM, DIS- SOLVED (MG/L AS Mg)
OCT 12...	0945	0.06	979	8.6	13.5	--	--	--	--	--	--
NOV 16...	1100	0.31	951	8.4	12.0	--	--	--	--	--	--
DEC 12...	1455	0.94	1270	8.5	10.5	--	--	--	--	--	--
FEB 02...	1200	123	812	8.0	--	--	--	--	--	--	--
APR 28...	1000	71	938	8.3	16.0	740	9.6	101	450	100	48
MAY 25...	0955	38	920	8.2	18.0	--	--	--	--	--	--
JUL 20...	1810	8.8	967	8.1	19.0	--	--	--	--	--	--
AUG 17...	1055	4.3	1020	7.7	22.0	--	--	--	--	--	--

[illegible][illegible]

11125500 LAKE CACHUMA NEAR SANTA YNEZ, CA

LOCATION.--Lat 34°34'57", long 119°58'47", in Lomas de la Purification Grant, Santa Barbara County, Hydrologic Unit 18060010, at Bradbury Dam on Santa Ynez River, on upstream face near left end of dam, and 6.1 mi east of Santa Ynez.

DRAINAGE AREA.--417 mi².

PERIOD OF RECORD.--November 1952 to current year. Prior to October 1985, only monthend elevations and contents and total diversions published. November 1952 to October 1960, published as "Cachuma Reservoir near Santa Ynez."

GAGE.--Water-stage recorder. Datum of gage is sea level (U.S. Bureau of Reclamation benchmark). Prior to Oct. 1, 1965, nonrecording gage.

REMARKS.--Reservoir is formed by earthfill dam. Storage began November 1952. Dead storage below outlet gage to river, elevation, 600 ft, 531 acre-ft, included in contents. Capacity below sill of inlet to Tecolote Tunnel, elevation, 660 ft, 26,771 acre-ft; below spillway level, elevation, 720 ft, 113,716 acre-ft; and below top of four radial gates, elevation, 750 ft, 190,409 acre-ft. Water is released from outlet to Santa Ynez River to satisfy downstream water rights. Water diverted to Tecolote Tunnel for use by city of Santa Barbara, nearby communities, Santa Ynez River Water Conservation District, and Cachuma Recreation Area. See schematic diagram of Santa Ynez River basin.

COOPERATION.--Reservoir elevation, contents, and diversion figures provided by U.S. Bureau of Reclamation. Contents not rounded to U.S. Geological Survey standards.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 221,100 acre-ft, Feb. 24, 1969, elevation, 755.11 ft; minimum since initial filling in April 1958, 27,681 acre-ft, Feb. 27, 1991, elevation 661.06 ft.

EXTREMES (AT 0800) FOR CURRENT YEAR.--Maximum contents, 191,510 acre-ft, Jan. 26, elevation, 750.36 ft; minimum, 134,855 acre-ft, Sept. 30, elevation, 729.39 ft.

Capacity table (elevation, in feet, and contents, in acre-feet)
(Based on surveys by U.S. Bureau of Reclamation)

680	47,346	710	93,627	740	161,730
690	60,576	720	113,716	750	190,409
700	75,972	730	136,306	760	222,431

RESERVOIR STORAGE (ACRE-Feet), WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY OBSERVATION AT 0800 HOURS

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	150866	146139	143892	142532	160284	144141	143742	143817	144840	144466	141668	138111
2	150687	145989	143817	142507	158734	144241	143792	143792	144940	144341	141545	137967
3	150508	145864	143767	142680	157119	144191	143742	143792	145040	144191	141446	137822
4	150432	145789	143692	142951	155985	144116	143692	143792	145140	144041	141347	137702
5	150380	145665	143642	143942	154781	144316	143817	143792	145215	143942	141224	137534
6	150278	145590	143592	144116	153631	148667	143817	143792	145290	143817	141101	137437
7	150176	145515	143568	144366	152492	147984	143792	143792	145290	143742	141004	137317
8	150073	145465	143494	144566	151328	145240	143767	143817	145340	143742	140882	137172
9	149946	145365	143444	145715	150073	143617	143717	143842	145390	143667	140784	137028
10	149792	145415	143395	157569	148692	143792	143917	143892	145440	143617	140663	136932
11	149587	145340	143321	187808	147276	165539	143867	143942	145515	143568	140541	136787
12	149357	145265	143296	189108	146266	174265	143817	143867	145565	143494	140419	136667
13	149101	145165	143272	186666	144965	172925	143767	143892	145565	143395	140297	136547
14	148846	145140	143222	183537	145415	169272	144291	143992	145590	143321	140175	136450
15	148590	145065	143198	181235	147580	163899	144366	144191	145565	143247	140053	136330
16	148312	144990	143148	178635	147276	158628	144216	144616	145540	143148	139932	136235
17	148110	144890	143099	176037	146468	153165	144016	144741	145540	143050	139834	136140
18	147933	144840	143025	173353	145465	148897	143967	144791	145540	142926	139712	136044
19	147757	144741	143000	170812	144491	146215	143817	144890	145490	142852	139615	135926
20	147580	144666	142976	168688	143717	144466	143792	144940	145465	142778	139542	135830
21	147504	144616	142926	167437	143518	144016	143817	144965	145390	142680	139420	135735
22	147378	144591	142852	165182	143469	143817	143867	144940	145340	142606	139298	135640
23	147251	144516	142803	163221	143592	146619	143842	144965	145290	142532	139176	135545
24	147125	144391	142754	166665	143767	145640	143842	145040	145215	142458	139079	135475
25	146998	144316	142778	189108	143917	143842	143717	145115	145140	142359	138957	135331
26	146872	144241	142729	191510	144066	143717	143717	145115	145040	142285	138835	135236
27	146746	144141	142680	184932	144166	143867	143792	145065	144940	142186	138713	135141
28	146645	144066	142630	179540	144191	143817	143792	144965	144840	142137	138617	135046
29	146518	144016	142630	174066	---	143742	143867	144866	144716	141989	138496	134951
30	146367	143967	142581	168382	---	143867	143867	144766	144591	141890	138376	134855
31	146266	---	142581	162841	---	143842	---	144791	---	141767	138256	---
MAX	150866	146139	143892	191510	160284	174265	144366	145115	145590	144466	141668	138111
MIN	146266	143967	142581	142507	143469	143617	143692	143792	144591	141767	138256	134855
a	734.06	733.14	732.58	740.41	733.23	733.09	733.10	733.47	733.39	732.25	730.81	729.39
b	-4780	-2299	-1386	+20260	-18650	-349	+25	+824	-200	-2824	-3511	-3401
c	2586	1774	1232	1612	1684	1891	2073	2087	1563	2419	2727	2406

CAL YR 1994 MAX 181853 MIN 142581 b -29836

WTR YR 1995 MAX 191510 MIN 134855 b -16191

a Elevation, in feet, at end of month.

b Change in contents, in acre-feet.

c Diversions, in acre-feet, to Tecolote Tunnel.

SANTA YNEZ RIVER BASIN

11126000 SANTA YNEZ RIVER NEAR SANTA YNEZ, CA

LOCATION.--Lat 34°35'21", long 119°59'16", in Canada de los Pinos Grant, Santa Barbara County, Hydrologic Unit 18060010, on right bank 0.7 mi downstream from Bradbury Dam, and 5.5 mi southeast of Santa Ynez.

DRAINAGE AREA.--422 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--December 1928 to September 1931, October 1932 to September 1976, May 1994 to current year (seasonal records only).

GAGE.--Water-stage recorder. Datum of gage is 545.66 ft above sea level (Bureau of Reclamation benchmark). Prior to Oct. 1, 1955, at site 2.5 mi downstream at different datum. Oct. 1, 1955, to Sept. 16, 1969, at site 0.4 mi downstream at datum 7.2 ft higher.

REMARKS.--Records poor. Flow regulated by Jameson Lake since December 1930, Gibraltar Reservoir, and Lake Cachuma since November 1952 (stations 11121000, 11122000, 11125500). Water diverted out of basin from Jameson Lake, Gibraltar Reservoir, and Lake Cachuma to cities of Montecito, Santa Barbara, and to the Santa Ynez Valley for municipal supply. Some water pumped from wells along river banks for irrigation. See schematic diagram of Santa Ynez River basin.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 79,000 ft³/s Jan. 25, 1969, gage height, 22.00 ft, from floodmark, present datum, on basis of computation of maximum flow over dam; no flow at times in some 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	36	---	---	---	---	---	---	---	13	79	6.5	---
2	34	---	---	---	---	---	---	---	12	82	6.6	---
3	32	---	---	---	---	---	---	---	13	83	---	---
4	24	---	---	---	---	---	---	---	14	76	---	---
5	12	---	---	---	---	---	---	---	13	57	---	---
6	12	---	---	---	---	---	---	---	14	22	---	---
7	12	---	---	---	---	---	---	---	15	3.5	---	---
8	11	---	---	---	---	---	---	---	15	3.2	---	---
9	11	---	---	---	---	---	---	---	17	2.7	---	---
10	26	---	---	---	---	---	---	---	16	1.4	---	---
11	51	---	---	---	---	---	---	---	15	.74	---	---
12	52	---	---	---	---	---	---	---	15	1.1	---	---
13	48	---	---	---	---	---	---	---	15	1.8	---	---
14	---	---	---	---	---	---	---	---	17	1.8	---	---
15	---	---	---	---	---	---	---	---	37	2.1	---	---
16	---	---	---	---	---	---	---	---	62	2.7	---	---
17	---	---	---	---	---	---	---	---	63	3.3	---	---
18	---	---	---	---	---	---	---	---	62	3.4	---	---
19	---	---	---	---	---	---	---	---	63	4.0	---	---
20	---	---	---	---	---	---	---	---	61	4.6	---	---
21	---	---	---	---	---	---	---	---	64	6.9	---	---
22	---	---	---	---	---	---	---	---	68	7.4	---	---
23	---	---	---	---	---	---	---	101	69	7.1	---	---
24	---	---	---	---	---	---	---	98	72	7.7	---	---
25	---	---	---	---	---	---	---	105	75	11	---	---
26	---	---	---	---	---	---	---	156	76	13	---	---
27	---	---	---	---	---	---	---	158	75	8.5	---	---
28	---	---	---	---	---	---	---	160	77	8.9	---	---
29	---	---	---	---	---	---	---	155	77	9.8	---	---
30	---	---	---	---	---	---	---	82	79	8.5	---	---
31	---	---	---	---	---	---	---	25	---	8.2	---	---
TOTAL	---	---	---	---	---	---	---	---	1284	532.34	---	---
MEAN	---	---	---	---	---	---	---	---	42.8	17.2	---	---
MAX	---	---	---	---	---	---	---	---	79	83	---	---
MIN	---	---	---	---	---	---	---	---	12	.74	---	---
AC-FT	---	---	---	---	---	---	---	---	2550	1060	---	---

SANTA YNEZ RIVER BASIN

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11126000 SANTA YNEZ RIVER NEAR SANTA YNEZ, CA--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1929 - 1995, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	1.67	2.25	14.7	146	233	293	131	34.6	11.4	5.81	4.49	3.01
MAX	28.2	26.9	104	2498	3971	3098	2034	364	122	51.6	65.7	48.1
(WY)	1958	1947	1942	1969	1969	1941	1941	1941	1941	1941	1994	1957
MIN	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
(WY)	1930	1930	1930	1930	1930	1948	1931	1931	1931	1931	1929	1929

SUMMARY STATISTICS

WATER YEARS 1929 - 1995

ANNUAL MEAN	73.9	
HIGHEST ANNUAL MEAN	666	1969
LOWEST ANNUAL MEAN	.000	1948
HIGHEST DAILY MEAN	38900	Jan 25 1969
LOWEST DAILY MEAN	.00	Jul 22 1929
ANNUAL SEVEN-DAY MINIMUM	.00	Jul 22 1929
INSTANTANEOUS PEAK FLOW	79000	Jan 25 1969
INSTANTANEOUS PEAK STAGE	22.00	Jan 25 1969
ANNUAL RUNOFF (AC-FT)	53520	
10 PERCENT EXCEEDS	68	
50 PERCENT EXCEEDS	1.0	
90 PERCENT EXCEEDS	.00	

WATER-QUALITY RECORDS

CHEMICAL DATA: October 1991 to current year.

SPECIFIC CONDUCTANCE: July 1994 to November 1994.

WATER TEMPERATURE: July 1994 to current year.

INSTRUMENTATION.--Water-quality monitor since July 1994.

REMARKS.--Water-quality samples collected below spillway. Discharges provided by U.S. Bureau of Reclamation.

SPECIFIC CONDUCTANCE: Maximum recorded, 1010 microsiemens, Nov. 10, 1994; minimum recorded 805 microsiemens, Sept. 13, 1994.

WATER TEMPERATURE: Maximum recorded 23.0°C, July 20-21, 1994; minimum recorded 9.0°C, Nov. 15, 1994.

SPECIFIC CONDUCTANCE: Maximum recorded, 1010 microsiemens, Nov.10; minimum recorded 842 microsiemens, Oct. 19-20.

WATER TEMPERATURE: Maximum recorded 23.0°C, July 20-21; minimum recorded, 9.0°C, Nov. 15.

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)	BARO-METRIC PRES-SURE (MM OF HG)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION)	HARD-NESS TOTAL (MG/L AS CaCO3)	CALCIUM DIS-SOLVED (MG/L AS Ca)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)
OCT 13...	1000	50	898	8.1	13.5	--	--	--	--	--	--
MAR 06...	1400	2320	747	8.5	14.0	--	--	--	--	--	--
APR 07...	0945	640	780	8.2	15.0	747	9.8	99	360	88	35
MAY 23...	1500	100	838	8.1	20.0	--	--	--	--	--	--
JUN 21...	1200	60	855	8.0	17.0	--	--	--	--	--	--
AUG 03...	1245	8.0	858	8.3	22.0	--	--	--	--	--	--

[illegible]

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

[illegible][illegible]

SANTA YNEZ RIVER BASIN

11126000 SANTA YNEZ RIVER NEAR SANTA YNEZ, 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	14.5	16.5	14.0	---	---	---	---	12.0	11.5	15.5	15.0
2	16.5	15.0	17.0	15.0	---	---	---	---	13.0	12.0	15.5	15.5
3	16.0	15.0	15.5	13.0	---	---	14.5	9.5	13.5	13.0	15.5	15.0
4	15.5	15.0	15.0	11.5	---	---	11.0	10.0	13.5	12.0	15.5	15.0
5	16.5	14.5	15.0	11.5	---	---	11.0	10.0	12.5	12.0	15.5	14.0
6	16.5	14.5	15.5	11.5	---	---	11.0	9.5	12.5	12.0	14.5	13.5
7	16.5	14.5	16.0	13.0	---	---	11.5	10.0	13.0	12.0	14.5	14.0
8	17.5	14.5	17.5	14.5	---	---	12.5	10.5	13.5	13.0	14.5	14.5
9	17.5	14.5	16.0	14.0	---	---	12.5	11.5	13.5	12.5	15.0	14.5
10	16.0	14.5	17.0	13.0	---	---	12.0	12.0	13.0	12.0	14.5	14.0
11	15.5	14.5	16.0	11.0	---	---	12.0	12.0	13.0	12.0	14.0	13.5
12	15.5	14.0	15.0	10.5	---	---	12.0	12.0	13.5	12.5	13.5	13.0
13	15.5	13.5	16.0	11.0	---	---	12.0	12.0	13.0	13.0	13.5	13.0
14	15.0	14.0	15.5	10.0	---	---	12.0	12.0	13.5	13.0	14.0	13.0
15	15.0	13.5	13.0	9.0	---	---	12.0	12.0	13.5	13.0	14.0	13.0
16	15.0	13.5	14.0	11.0	---	---	12.0	11.5	13.0	12.5	14.0	13.5
17	15.5	13.0	---	---	---	---	12.0	11.5	13.5	12.5	14.5	13.5
18	15.5	13.0	---	---	---	---	12.0	11.5	13.5	12.5	14.5	13.5
19	15.0	13.0	---	---	---	---	11.5	11.5	13.5	13.0	15.0	13.5
20	15.0	13.0	---	---	---	---	11.5	11.5	14.0	13.0	15.0	14.0
21	15.5	13.0	---	---	---	---	11.5	11.5	14.5	13.5	15.0	14.0
22	15.0	13.5	---	---	---	---	11.5	11.5	14.5	14.0	14.5	14.0
23	15.5	13.5	---	---	---	---	11.5	11.5	14.5	13.5	14.5	13.5
24	15.5	14.5	---	---	---	---	11.5	11.5	14.5	13.5	14.0	13.0
25	15.5	14.5	---	---	---	---	11.5	11.5	15.0	13.5	14.0	13.0
26	16.0	14.5	---	---	---	---	11.5	11.5	15.0	14.5	14.0	13.5
27	15.5	14.5	---	---	---	---	11.5	11.5	15.0	14.5	14.0	13.5
28	16.5	15.0	---	---	---	---	11.5	11.5	15.0	15.0	14.5	13.5
29	17.0	15.5	---	---	---	---	11.5	11.5	---	---	14.0	13.5
30	17.0	15.0	---	---	---	---	11.5	11.5	---	---	14.5	13.5
31	16.5	14.0	---	---	---	---	12.0	11.5	---	---	14.5	13.5
MONTH	17.5	13.0	---	---	---	---	---	---	15.0	11.5	15.5	13.0
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	14.5	13.5	18.5	17.0	18.5	17.5	18.0	17.5	22.5	22.0	21.0	20.5
2	14.5	13.5	18.0	17.0	19.0	17.5	18.0	17.5	22.5	21.5	21.0	20.5
3	15.0	14.0	18.5	17.0	19.5	17.5	18.0	17.5	---	---	21.0	20.5
4	15.0	14.0	18.0	17.5	19.5	17.5	18.0	17.5	---	---	21.0	20.5
5	15.5	14.5	17.5	17.0	20.0	17.5	18.5	17.5	---	---	21.0	20.0
6	15.5	14.5	17.5	16.5	19.5	17.0	19.5	17.5	---	---	21.0	20.0
7	15.5	14.0	17.5	17.0	19.0	17.0	20.0	19.0	---	---	21.0	20.0
8	14.0	13.0	18.0	17.0	19.5	17.0	21.0	20.0	---	---	21.0	20.0
9	14.0	13.0	17.5	16.0	19.5	17.5	21.0	20.0	---	---	20.5	20.0
10	15.5	14.0	16.0	15.5	20.0	17.5	21.0	20.5	---	---	20.5	20.0
11	15.5	14.0	17.5	15.0	20.0	17.5	21.5	21.0	---	---	20.5	20.0
12	16.0	14.5	17.5	16.0	20.0	17.5	22.0	21.0	---	---	21.0	20.0
13	16.0	15.0	16.5	15.5	20.0	18.0	22.0	20.5	---	---	21.0	20.0
14	15.0	14.5	16.5	15.5	19.0	18.0	22.0	21.0	---	---	21.0	20.0
15	15.0	14.0	17.5	15.5	18.5	17.5	22.0	21.5	---	---	21.0	20.0
16	14.5	14.0	17.5	16.5	18.0	17.0	22.5	22.0	21.5	20.5	21.0	20.0
17	14.5	14.0	17.0	16.0	18.5	17.0	22.5	21.0	21.5	20.0	21.0	20.0
18	14.5	14.0	17.0	16.0	18.5	17.0	22.5	21.5	21.0	20.0	21.0	20.0
19	14.5	13.5	17.5	16.5	18.5	17.0	22.5	21.5	21.0	20.0	20.5	20.0
20	14.5	13.5	17.5	16.5	18.5	17.0	23.0	21.5	21.0	20.5	20.5	20.0
21	15.0	13.5	17.0	16.5	18.5	17.0	23.0	22.0	21.0	20.5	20.5	20.0
22	15.0	14.0	17.5	16.5	18.5	17.0	22.5	22.0	21.5	20.5	20.5	20.0
23	15.5	14.0	18.0	17.0	18.5	17.0	22.5	21.5	21.5	21.0	20.5	20.0
24	16.0	14.5	17.5	17.0	18.5	17.5	22.5	21.5	21.5	21.0	20.5	20.0
25	16.0	14.5	17.5	17.0	18.5	17.5	22.5	21.5	21.5	20.5	20.0	19.5
26	16.0	14.5	18.0	17.0	18.5	17.5	22.0	21.0	21.5	20.5	20.0	19.5
27	16.5	15.0	17.5	17.0	18.5	17.5	22.0	21.0	21.5	20.5	20.5	19.5
28	17.0	15.5	18.0	17.0	18.0	17.5	22.5	21.5	21.0	20.0	20.0	19.5
29	17.0	15.5	18.0	17.0	18.0	17.5	22.5	21.5	21.0	20.5	20.0	19.0
30	17.5	16.5	18.5	17.0	18.0	17.5	22.5	21.0	21.5	20.5	19.5	18.5
31	---	---	18.5	17.0	---	---	22.5	21.5	21.0	20.5	---	---
MONTH	17.5	13.0	18.5	15.0	20.0	17.0	23.0	17.5	---	---	21.0	18.5

SANTA YNEZ RIVER BASIN

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11128250 ALAMO PINTADO CREEK NEAR SOLVANG, CA

LOCATION.--Lat 34°37'06", long 120°07'11", in NW 1/4 NW 1/4 sec.11, T.6 N., R.31 W., Santa Barbara County, Hydrologic Unit 18060010, on right bank at downstream side of bridge on Alamo Pintado Road, 1.5 mi northeast of Solvang.

DRAINAGE AREA.--29.4 mi².

PERIOD OF RECORD.--October 1970 to September 1985, October 1989 to September 1992, October 1994 to September 1995. Records prior to October 1970 in files of Santa Barbara County Flood Control District.

GAGE.--Water-stage recorder. Datum of gage is 540.49 ft, Santa Barbara County datum.

REMARKS.--Records poor. No regulation upstream from station. Pumping from wells along stream for irrigation.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 900 ft³/s, Mar. 1, 1983, gage height, 6.10 ft, from rating curve extended above 70 ft³/s on basis of slope-area measurements at gage heights 4.90 ft and 5.51 ft; maximum gage height, 6.80 ft, Feb. 9, 1978, from floodmark; no flow most of each year.

EXTREMES FOR OUTSIDE PERIOD OF RECORD.--Flood of Jan. 25, 1969, reached a stage of 10.32 ft, from information provided by Santa Barbara County Flood Control District.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 100 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Jan. 4	2030	101	2.89	Mar. 5	1800	314	3.87
Jan. 10	0445	824	5.85	Mar. 10	2200	*863	*5.98
Jan. 25	0715	730	5.53				

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	.04	.04	.27	.37	e10	1.2	17	e2.9	e2.7	e1.8	.68	e1.3
2	.05	.04	.26	.46	e8.0	1.8	17	e2.7	e2.6	e1.6	.66	e1.3
3	.04	.05	.22	.73	e7.0	1.9	11	e2.5	e2.5	e1.4	.60	e1.3
4	.03	.07	.25	20	e6.0	2.1	7.3	1.6	e2.4	e1.2	.62	e1.2
5	.02	.05	.20	3.9	e4.0	84	7.8	1.7	e2.3	1.1	.61	e1.2
6	.02	.05	.19	.15	e3.3	18	9.0	1.8	e2.2	1.0	.60	e1.2
7	.02	.04	.20	.64	e3.8	3.3	9.0	1.8	e2.2	.98	.57	e1.2
8	.01	.03	.30	.07	e4.5	3.0	9.0	2.0	e2.1	1.2	.53	e1.2
9	.01	.03	.37	23	e5.2	2.6	9.2	1.9	e2.0	1.3	.53	e1.2
10	.01	.15	.46	335	e4.4	136	9.8	1.9	e2.0	1.4	.54	e1.2
11	.03	.00	.42	61	e2.5	315	5.7	2.0	e1.9	1.3	.60	e1.2
12	.05	.00	.54	8.0	e1.5	e225	5.0	2.1	e1.8	1.1	.56	e1.2
13	.03	.00	.54	11	e5.0	e150	6.8	2.6	e1.7	1.1	.53	e1.2
14	.01	.01	.53	13	e20	e50	7.0	2.4	5.3	1.1	.52	e1.3
15	.00	.01	.53	e5.0	e12	e30	6.7	3.9	12	1.1	.49	e1.3
16	.01	.01	.69	e3.5	e7.0	e20	6.6	5.0	14	1.1	.23	e1.3
17	.02	.00	.70	e5.0	e5.0	e13	7.8	4.1	12	.98	.08	e1.3
18	.00	.01	.60	e6.5	e3.0	e7.0	8.7	3.7	11	.98	.08	e1.3
19	.01	.02	.60	e4.0	e1.7	e5.0	8.2	3.6	10	.89	.07	e1.3
20	.01	.03	.60	e10	e1.6	e3.5	9.0	3.5	8.6	.98	.26	e1.3
21	.00	.04	.69	e20	e1.7	e2.4	11	3.6	e8.0	.93	.32	e1.3
22	.01	.20	.56	e30	e1.8	e25	11	3.2	e7.0	.87	.41	e1.2
23	.01	.29	.55	e100	e2.0	e110	9.8	3.2	e6.0	.86	e1.4	e1.2
24	.01	.33	.94	357	2.2	e70	4.4	3.4	e5.0	.77	e1.4	e1.3
25	.02	.36	.57	542	1.9	e45	4.9	3.7	e4.0	.85	e1.4	e1.4
26	.02	.42	.53	e80	2.7	e25	3.7	3.4	e3.5	.81	e1.4	e1.4
27	.02	.41	.53	e40	2.4	e16	3.4	e3.1	e3.0	.77	e1.4	e1.3
28	.02	.44	.53	e30	.99	e9.0	3.2	e3.0	e2.7	.75	e1.4	e1.3
29	.01	.41	.53	e21	---	e7.0	3.0	e2.9	e2.3	.68	e1.4	e1.2
30	.02	.37	.53	e16	---	e4.0	e3.0	e2.8	e2.0	.72	e1.3	e1.2
31	.02	---	.53	e12	---	e2.5	---	e2.7	---	.70	e1.3	---
TOTAL	0.58	3.91	14.96	1759.32	131.19	1388.3	235.0	88.7	144.8	32.32	22.49	37.8
MEAN	.019	.13	.48	56.8	4.69	44.8	7.83	2.86	4.83	1.04	.73	1.26
MAX	.05	.44	.94	542	20	315	17	5.0	14	1.8	1.4	1.4
MIN	.00	.00	.19	.07	.99	1.2	3.0	1.6	1.7	.68	.07	1.2
AC-FT	1.2	7.8	30	3490	260	2750	466	176	287	64	45	75

e Estimated.

SANTA YNEZ RIVER BASIN

11128250 ALAMO PINTADO CREEK NEAR SOLVANG, 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	.037	.094	.30	3.84	4.06	7.10	.93	.32	.31	.11	.086	.11
MAX	.43	.78	1.92	56.8	26.2	44.8	8.24	2.86	4.83	1.04	.73	1.26
(WY)	1985	1984	1984	1995	1992	1995	1983	1995	1995	1995	1995	1995
MIN	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
(WY)	1971	1971	1973	1971	1971	1971	1971	1971	1971	1971	1971	1971

SUMMARY STATISTICS

FOR 1995 WATER YEAR

WATER YEARS 1971 - 1995

ANNUAL TOTAL	3859.37		
ANNUAL MEAN	10.6	1.43	
HIGHEST ANNUAL MEAN		10.6	1995
LOWEST ANNUAL MEAN		.000	1990
HIGHEST DAILY MEAN	542	Jan 25	542 Jan 25 1995
LOWEST DAILY MEAN	.00	Oct 15	.00 Oct 1 1970
ANNUAL SEVEN-DAY MINIMUM	.00	Nov 11	.00 Oct 1 1970
INSTANTANEOUS PEAK FLOW	863	Mar 10	900 Mar 1 1983
INSTANTANEOUS PEAK STAGE	5.98	Mar 10	6.80 Feb 9 1978
ANNUAL RUNOFF (AC-FT)	7660		1040
10 PERCENT EXCEEDS	12		.88
50 PERCENT EXCEEDS	1.4		.00
90 PERCENT EXCEEDS	.03		.00

SANTA YNEZ RIVER BASIN

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11128300 ALISAL RESERVOIR NEAR SOLVANG, CA

LOCATION.--Lat 34°32'56", long 120°07'45", in NE 1/4 NW 1/4 sec.4, T.5 N., R.31 W., Santa Barbara County, Hydrologic Unit 18060010, in cove on right bank 0.4 mi upstream from reservoir spillway and 3 mi south of Solvang.

DRAINAGE AREA.--7.83 mi².

PERIOD OF RECORD.--December 1971 to current year. Prior to October 1985, only monthend elevations and contents published.

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

REMARKS.--Lake is formed by earthfill dam. Storage began Dec. 19, 1970. Usable capacity, 2,260 acre-ft between bottom of outlet gate at elevation 555.70 ft, and crest of spillway at elevation 599.88 ft. Dead storage, 110 acre-ft. Inflow must total 150 acre-ft during any one month between November and June in order to store flows for that water year. See schematic diagram of Santa Ynez River basin.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 2,770 acre-ft, Mar. 4, 1978, elevation, 604.31 ft; minimum, 748 acre-ft, Nov. 8-10, 1972, elevation, 577.15 ft.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 2,630 acre-ft, Mar. 10, elevation, 602.75 ft; minimum contents, 1,990 acre-ft, several days in November, December, and January, elevation, 595.58 ft, Dec. 21-23.

Capacity table (elevation in feet, and contents, in acre-feet)
(Based on data provided by Santa Barbara County Flood Control District in 1971)

590	1,540	600	2,380
595	1,940	605	2,840

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	2050	2000	1990	1990	2390	2390	2390	2380	2370	2370	2320	2240
2	2050	2000	1990	1990	2390	2390	2390	2380	2370	2370	2310	2240
3	2050	2000	1990	2000	2390	2390	2390	2380	2370	2370	2310	2240
4	2060	2000	1990	2110	2390	2390	2390	2380	2370	2370	2310	2240
5	2060	1990	1990	2130	2390	2440	2390	2380	2370	2360	2310	2230
6	2050	1990	1990	2130	2390	2410	2390	2380	2370	2360	2300	2230
7	2050	1990	1990	2220	2390	2400	2390	2380	2370	2360	2300	2230
8	2050	1990	1990	2420	2390	2370	2390	2380	2370	2360	2300	2220
9	2050	2000	e1990	2480	2390	2350	2380	2380	2370	2360	2300	2220
10	2050	2000	e1990	2570	2390	2630	2380	2380	2370	2360	2300	2220
11	2040	2000	e1990	2440	2390	2490	2380	2380	2370	2360	2290	2220
12	2040	2000	e1990	2420	2390	2440	2380	2370	2370	2360	2290	2210
13	2040	2000	1990	2400	2420	2420	2380	2380	2370	2360	2290	2210
14	2030	2000	1990	2400	2440	2410	2380	2380	2370	2350	2290	2210
15	2030	2000	1990	2400	2410	2400	2380	2380	2370	2350	2280	2200
16	2030	2000	1990	2400	2400	2400	2380	2380	2380	2350	2280	2200
17	2030	2000	1990	2390	2400	2400	2380	2380	2380	2350	2280	2200
18	2020	2000	1990	2390	2400	2400	2380	2380	2380	2350	2280	2200
19	2020	2000	1990	2390	2390	2390	2380	2380	2380	2340	2270	2200
20	2020	2000	1990	2410	2390	2400	2380	2380	2370	2340	2270	2200
21	2020	2000	1990	2400	2390	2400	2380	2380	2370	2340	2270	2200
22	2020	2000	1990	2400	2390	2580	2380	2370	2370	2340	2270	2190
23	2020	2000	1990	2490	2390	2450	2380	2370	2370	2340	2260	2190
24	2020	1990	1990	2540	2390	2420	2380	2370	2370	2330	2260	2190
25	2010	1990	1990	2480	2390	2410	2380	2370	2370	2330	2260	2190
26	2010	2000	1990	2430	2390	2410	2380	2370	2370	2330	2260	2180
27	2010	1990	1990	2420	2390	2400	2380	2370	2370	2330	2250	2180
28	2010	1990	1990	2410	2390	2400	2380	2370	2370	2330	2250	2180
29	2010	1990	1990	2400	---	2400	2380	2370	2370	2320	2250	2180
30	2010	1990	1990	2400	---	2390	2380	2370	2370	2320	2250	2180
31	2000	---	1990	2400	---	2390	---	2370	---	2320	2240	---
MAX	2060	2000	1990	2570	2440	2630	2390	2380	2380	2370	2320	2240
MIN	2000	1990	1990	1990	2390	2350	2380	2370	2370	2320	2240	2180
a	595.81	595.67	595.62	600.17	600.07	600.15	599.97	599.93	599.87	599.33	598.49	597.73
b	-60	-10	0	-410	-10	0	-10	-10	0	-50	-80	-60

CAL YR 1994 b -170

WTR YR 1995 b +130

e Estimated.

a Elevation, in feet, at end of month.

b Change in contents, in acre-feet.

11128500 SANTA YNEZ RIVER AT SOLVANG, CA

LOCATION.--Lat 34°35'06", long 120°08'37", in San Carlos de Jonata Grant, Santa Barbara County, Hydrologic Unit 18060010, near left bank on downstream end of pier of Alisal Road Bridge, 25 ft downstream from Alisal Creek, 0.8 mi southwest of Solvang, and 10 mi downstream from Lake Cachuma.

DRAINAGE AREA.--579 mi².

PERIOD OF RECORD.--October 1928 to November 1936, June 1937 to November 1940 (irrigation seasons only), October 1946 to current year.

REVISED RECORDS.--WSP 2128: Drainage area.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 357.43 ft above sea level. Various datums used during period of record. July 29 to Sept. 30, 1953, auxiliary water-stage recorder 750 ft upstream at different datum. Oct. 1, 1953, to Sept. 30, 1968, water-stage recorder at datum 2.00 ft higher. Oct. 1, 1968, to Sept. 30, 1988, water-stage recorder at datum 5.00 ft higher.

REMARKS.--Records fair except those for estimated daily discharges, which are poor. Flow regulated by Jameson Lake, Gibraltar Reservoir, and since November 1952, by Lake Cachuma (stations 11121000, 11122000, and 11125500). Additional water may be added by releases from Alisal Reservoir (11128300). Water diverted out of basin from Jameson Lake, Gibraltar Reservoir, and Lake Cachuma to cities of Montecito, Santa Barbara, and Goleta for municipal supply. Water for irrigation pumped from wells along banks of river in valley upstream. See schematic diagram of Santa Ynez River basin.

EXTREMES FOR PERIOD OF RECORD (water years 1928-36, 1946-94).--Maximum discharge, 82,000 ft³/s, Jan. 25, 1969, estimated on basis of discharge measurements up to 81,000 ft³/s for Santa Ynez River near Buellton, gage height, 17.1 ft, from floodmark; no flow for several months in many years.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 28,800 ft³/s, Jan. 10, gage height, 8.19 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	32	3.0	2.9	3.5	e2350	171	1170	278	73	100	.35	.00
2	32	3.4	2.9	2.7	e1700	213	1110	273	70	88	.21	.00
3	32	3.4	3.3	8.9	1670	207	1080	216	75	86	.12	.00
4	34	3.1	4.3	78	1590	218	1170	212	68	80	.10	.00
5	37	3.1	5.0	66	1530	1850	1280	208	58	72	.08	.00
6	40	3.1	4.9	6.3	1400	2400	1210	203	51	56	.06	.00
7	43	5.4	4.2	71	1370	2700	976	161	47	34	.02	.00
8	47	5.5	1.7	60	1550	2230	972	162	47	24	.00	.00
9	49	5.4	2.3	1190	1550	618	759	156	49	20	.00	.00
10	49	5.3	2.2	13300	1560	4240	745	145	46	16	.00	.00
11	49	5.1	2.2	5650	1240	7420	728	149	46	15	.00	.00
12	49	5.0	2.4	e3850	1190	6780	718	156	46	11	.00	.00
13	46	5.1	3.3	e3080	1200	5830	580	145	45	10	.00	.00
14	42	5.1	4.6	e3000	2320	5710	308	130	42	8.2	.00	.00
15	38	4.8	5.0	e2700	1770	5680	703	183	43	6.7	.00	.00
16	35	4.7	5.4	e2500	1570	5140	792	192	82	5.8	.00	.00
17	32	4.5	5.8	e2300	1510	4720	602	172	87	3.5	.00	.00
18	29	4.4	4.6	e2200	1450	3500	557	174	85	1.9	.00	.00
19	26	4.3	5.2	e2400	1340	2450	524	175	82	1.5	.00	.00
20	24	4.1	5.5	e2840	829	1330	481	175	81	.93	.00	.00
21	21	4.1	6.6	2780	582	1420	445	175	89	.69	.00	.00
22	19	4.1	5.7	3080	450	1600	421	174	99	.66	.00	.00
23	17	4.1	5.3	4190	261	8050	421	134	129	.60	.00	.00
24	14	3.9	6.7	10400	172	8020	429	128	134	.73	.00	.00
25	12	3.8	6.8	10800	135	3220	383	125	139	.81	.00	.00
26	9.9	3.7	5.2	9520	140	2290	297	157	145	.63	.00	.00
27	8.2	3.5	4.7	6200	130	2070	294	175	135	.49	.00	.00
28	6.6	3.5	5.0	5510	164	1810	273	175	125	.39	.00	.00
29	5.2	3.2	4.4	4830	---	1540	249	175	123	.34	.00	.00
30	3.9	3.1	3.2	4520	---	1450	266	146	116	.26	.00	.00
31	2.8	---	2.9	3600	---	1340	---	95	---	.33	.00	---
TOTAL	884.6	124.8	134.2	110736.4	32723	96217	19943	5324	2457	646.46	0.94	0.00
MEAN	28.5	4.16	4.33	3572	1169	3104	665	172	81.9	20.9	.030	.000
MAX	49	5.5	6.8	13300	2350	8050	1280	278	145	100	.35	.00
MIN	2.8	3.0	1.7	2.7	130	171	249	95	42	.26	.00	.00
AC-FT	1750	248	266	219600	64910	190800	39560	10560	4870	1280	1.9	.00

e Estimated.

SANTA YNEZ RIVER BASIN

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11128500 SANTA YNEZ RIVER AT SOLVANG, CA--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1929 - 1950, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	3.92	7.04	32.8	62.0	176	52.4	48.1	11.7	8.56	4.00	2.41	2.51
MAX	6.69	34.9	257	211	1240	164	375	59.3	36.8	17.0	6.36	5.69
(WY)	1939	1947	1932	1935	1932	1935	1935	1935	1938	1938	1938	1938
MIN	.25	2.40	4.20	4.87	5.90	4.95	3.51	2.36	1.27	.21	.000	.000
(WY)	1950	1930	1930	1948	1948	1950	1931	1948	1948	1948	1948	1948

SUMMARY STATISTICS

WATER YEARS 1929 - 1950

ANNUAL TOTAL
 ANNUAL MEAN
 HIGHEST ANNUAL MEAN
 LOWEST ANNUAL MEAN
 HIGHEST DAILY MEAN
 LOWEST DAILY MEAN
 ANNUAL SEVEN-DAY MINIMUM
 INSTANTANEOUS PEAK FLOW
 ANNUAL RUNOFF (AC-FT)
 10 PERCENT EXCEEDS
 50 PERCENT EXCEEDS
 90 PERCENT EXCEEDS

32.9
 152
 3.31
 12300
 .00
 .00
 18700
 23800
 35
 5.3
 1.5

1932
 1948
 Feb 9 1932
 Jul 15 1931
 Jul 15 1931
 Feb 9 1932

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	5.53	4.25	19.6	263	367	417	148	41.4	10.9	4.52	4.66	5.26
MAX	88.7	96.2	263	3572	4445	4029	1258	568	105	41.0	57.0	38.3
(WY)	1992	1966	1984	1995	1969	1983	1983	1983	1983	1969	1994	1994
MIN	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
(WY)	1952	1952	1963	1976	1991	1989	1961	1961	1961	1957	1954	1954

SUMMARY STATISTICS

FOR 1994 CALENDAR YEAR

FOR 1995 WATER YEAR

WATER YEARS 1952 - 1995

ANNUAL TOTAL
 ANNUAL MEAN
 HIGHEST ANNUAL MEAN
 LOWEST ANNUAL MEAN
 HIGHEST DAILY MEAN
 LOWEST DAILY MEAN
 ANNUAL SEVEN-DAY MINIMUM
 INSTANTANEOUS PEAK FLOW
 INSTANTANEOUS PEAK STAGE
 ANNUAL RUNOFF (AC-FT)
 10 PERCENT EXCEEDS
 50 PERCENT EXCEEDS
 90 PERCENT EXCEEDS

5685.41
 15.6
 110
 .00
 .00
 .00
 11280
 44
 5.8
 .03

269191.40
 738
 13300
 .00
 .00
 28800
 8.19
 533900
 2330
 46
 .00

106
 758
 .86
 40000
 .00
 .00
 82000
 17.10
 77060
 72
 1.7
 .00

1969
 1961
 Jan 25 1969
 Oct 1 1951
 Oct 1 1951
 Jan 25 1969
 Jan 25 1969

SANTA YNEZ RIVER BASIN

11129800 ZACA CREEK NEAR BUELLTON, CA

LOCATION.--Lat 34°38'55", long 120°11'00", in San Carlos de Jonata Grant, Santa Barbara County, Hydrologic Unit 18060010, on left bank 2 ft upstream from bridge on Frontage Road, 0.9 mi upstream from Dry Creek, 2.4 mi north of Buellton, and 4.0 mi upstream from mouth.

DRAINAGE AREA.--32.8 mi².

PERIOD OF RECORD.--September 1963 to September 1981, October 1989 to September 30, 1992, October 1994 to September 1995.

Gage.--Water-stage recorder. Datum of gage is 471.54 ft above sea level.

REMARKS.--Records fair, except those for estimated daily discharges, which are poor. Some pumping from wells along stream for irrigation upstream from station. Small regulation by Zaca Lake, about 15 mi upstream.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,390 ft³/s, Feb. 24, 1969, gage height, 9.20 ft; maximum gage height, 9.66 ft, Mar. 4, 1978; no flow most of each year.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 50 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Jan. 10	0745	489	6.46	Mar. 10	2230	485	6.82
Jan. 25	0330	*496	*6.71	Mar. 23	0145	159	4.33
Feb. 14	0730	67	3.39	Apr. 26	1545	56	3.26
Mar. 5	1900	84	3.60				

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	9.3	3.1	e19	8.3	1.6	2.0	.01	.00
2	.00	.00	.00	.00	5.4	3.0	e18	7.2	2.2	1.5	.00	.00
3	.00	.00	.00	.00	4.3	3.5	e17	5.8	2.3	1.2	.01	.00
4	.00	.00	.00	3.9	3.6	3.4	e16	5.5	2.8	1.7	.00	.00
5	.00	.00	.00	4.8	2.7	34	e15	5.9	2.4	1.8	.66	.00
6	.00	.00	.00	.83	2.4	33	e14	4.7	2.4	1.0	1.0	.00
7	.00	.00	.00	4.2	2.1	18	e14	4.3	2.3	.15	.57	.00
8	.00	.00	.00	.83	3.0	15	e13	3.2	2.3	.12	.02	.00
9	.00	.00	.00	4.3	1.9	13	e12	3.1	2.0	.11	.00	.00
10	.00	.00	.00	173	1.4	142	e11	3.1	2.0	.12	.00	.00
11	.00	.00	.00	45	1.2	289	e10	9.4	1.8	.12	.00	.00
12	.00	.00	.00	22	.94	136	8.7	3.0	1.4	.11	.00	.00
13	.00	.00	.00	12	.83	68	5.8	2.7	.87	.10	.00	.00
14	.00	.00	.00	9.2	24	46	10	6.7	.62	.09	.00	.00
15	.00	.00	.00	10	8.3	39	9.4	7.4	1.4	.08	.00	.00
16	.00	.00	.00	4.8	4.3	26	9.5	15	4.2	.16	.00	.00
17	.00	.00	.00	2.5	3.7	14	6.8	5.8	3.5	.23	.00	.00
18	.00	.00	.00	2.7	3.4	4.9	7.6	3.7	3.8	.15	.00	.00
19	.00	.00	.00	2.1	3.4	2.7	e6.0	2.8	2.0	.13	.00	.00
20	.00	.00	.00	1.9	3.6	1.1	e5.0	2.9	1.7	.11	.00	.00
21	.00	.00	.00	1.5	3.7	9.9	e3.5	2.5	.99	.10	.00	.00
22	.00	.00	.00	1.0	4.0	7.5	e2.5	3.2	2.0	.09	.00	.00
23	.00	.00	.00	3.4	3.9	109	e2.0	2.1	1.7	.09	.00	.00
24	.00	.00	.00	153	3.6	40	e1.8	2.6	1.2	.08	.00	.00
25	.00	.00	.00	305	3.5	e35	e2.4	2.4	1.4	.09	.00	.00
26	.00	.00	.00	90	3.3	e30	8.1	2.3	1.2	.09	.00	.00
27	.00	.00	.00	44	3.3	e28	18	1.8	1.3	.08	.00	.00
28	.00	.00	.00	22	3.3	e25	9.7	2.0	1.1	.06	.00	.00
29	.00	.00	.00	17	---	e23	9.2	2.0	1.1	.04	.00	.00
30	.00	.00	.00	12	---	e21	7.4	1.3	1.2	.03	.00	.00
31	.00	---	.00	11	---	e19	---	1.0	---	.01	.00	---
TOTAL	0.00	0.00	0.00	963.96	118.37	1242.1	292.4	133.7	56.78	11.74	2.27	0.00
MEAN	.0000	.0000	.0000	31.1	4.23	40.1	9.75	4.31	1.89	.38	.073	.0000
MAX	.00	.00	.00	305	24	289	19	15	4.2	2.0	1.0	.00
MIN	.00	.00	.00	.00	.83	1.1	1.8	1.0	.62	.01	.00	.00
AC-FT	.00	.00	.00	1910	235	2460	580	265	113	23	4.5	.00

e Estimated.

11129800 ZACA CREEK NEAR BUELLTON, 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	.000	.003	.20	3.12	6.33	4.93	1.30	.37	.11	.017	.003	.003
MAX	.002	.033	2.88	32.1	56.8	40.1	9.75	4.31	1.89	.38	.073	.059
(WY)	1977	1966	1967	1969	1969	1995	1995	1995	1995	1995	1995	1976
MIN	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
(WY)	1964	1967	1964	1968	1964	1964	1964	1964	1964	1964	1964	1964

SUMMARY STATISTICS

FOR 1995 WATER YEAR

WATER YEARS 1964 - 1995

ANNUAL TOTAL	2821.32		
ANNUAL MEAN	7.73	1.34	
HIGHEST ANNUAL MEAN		9.23	1969
LOWEST ANNUAL MEAN		.000	1990
HIGHEST DAILY MEAN	305	450	Feb 24 1969
LOWEST DAILY MEAN	.00	.00	Oct 1 1963
ANNUAL SEVEN-DAY MINIMUM	.00	.00	Oct 1 1963
INSTANTANEOUS PEAK FLOW	496		Jan 25
INSTANTANEOUS PEAK STAGE	6.71		Jan 25
ANNUAL RUNOFF (AC-FT)	5600	971	9.66 Mar 4 1978
10 PERCENT EXCEEDS	15	.43	
50 PERCENT EXCEEDS	.83	.00	
90 PERCENT EXCEEDS	.00	.00	

11132500 SALSIPUEDES CREEK NEAR LOMPOC, CA

LOCATION.--Lat 34°35'19", long 120°24'27", in W 1/2 sec.24, T.6 N., R.34 W., Santa Barbara County, Hydrologic Unit 18060010, on right bank at bridge on Jalama Road, 0.4 mi downstream from El Jaro Creek, and 4.4 mi southeast of Lompoc.

DRAINAGE AREA.--47.1 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--January 1941 to current year.

REVISED RECORDS.--WSP 2128: Drainage area.

GAGE.--Water-stage recorder and concrete low-water control. Elevation of gage is 220 ft above sea level, from topographic map.

REMARKS.--Records fair except those for estimated daily discharges, which are poor. No regulation upstream from station. Small diversions for irrigation upstream from station. Recording rain gage and satellite telemeter at station. See schematic diagram of Santa Ynez River basin.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 11,400 ft³/s, Mar. 15, 1952, gage height, 20.8 ft; no flow at times in some years.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 300 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Jan. 4	1915	1,270	4.94	Feb. 14	0515	1,180	4.76
Jan. 7	0430	2,110	6.52	Mar. 5	1545	1,880	6.12
Jan. 10	0215	4,780	11.13	Mar. 10	1615	*7,850	*15.58
Jan. 20	1645	2,470	7.21	Mar. 19	unknown	unknown	unknown
Jan. 25	0400	2,010	6.34				

Minimum daily, 0.18 ft³/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.18	.31	.71	e.50	e58	e22	e50	e15	9.6	8.0	3.2	e2.8
2	e.18	.34	.76	e.80	e50	e21	e46	e15	9.7	8.0	3.2	e2.8
3	e.18	.36	.81	9.9	e45	e20	e44	e14	10	7.7	3.3	e2.9
4	1.6	.35	.87	354	e52	e25	e40	e14	10	8.0	3.1	e2.9
5	1.2	.31	.85	43	e62	682	e37	e14	9.3	7.6	3.1	e3.0
6	.98	.37	.84	7.5	e80	169	e35	e13	9.3	6.2	3.2	e3.0
7	.82	.51	.73	356	e95	e90	e34	e13	8.9	5.4	3.1	e3.0
8	.60	.35	.67	218	107	e70	e31	e13	9.1	5.4	3.2	e3.0
9	.51	.37	.76	294	e85	e1000	e29	e12	8.9	5.5	3.1	e3.0
10	.47	2.5	.94	1850	e75	2960	e28	e11	8.7	5.4	3.2	e3.0
11	.47	1.1	.97	297	e65	5390	e26	e11	8.5	4.9	3.6	e3.0
12	.47	.48	1.2	173	e80	e2500	e24	e13	8.2	4.6	3.7	e3.0
13	.44	.39	1.6	106	114	e200	e23	e16	8.3	4.5	3.5	e2.9
14	.40	.31	1.4	121	331	e60	e22	e18	8.2	4.4	3.5	e2.9
15	.40	.38	1.4	112	e100	e45	e25	22	9.2	4.4	3.7	e2.9
16	.40	.64	1.3	129	e70	e35	32	e19	11	5.1	4.2	e2.8
17	.40	.54	1.2	105	e60	e30	26	e18	9.7	5.9	3.9	e2.8
18	.40	.54	1.2	93	e54	e200	26	e16	8.8	5.2	3.4	e2.9
19	.35	.47	1.2	83	e46	e1400	24	e14	8.2	4.8	3.8	e2.8
20	.31	.47	1.1	311	e42	e700	23	e13	8.1	5.3	3.6	e2.8
21	.31	.47	1.1	118	e38	e300	22	e13	7.7	5.5	3.8	e2.9
22	.31	.47	1.2	182	e34	e150	21	e13	7.5	4.9	3.5	e2.8
23	.36	.52	1.2	831	e32	e140	e19	e13	7.3	4.2	3.7	e2.9
24	.40	.56	1.7	984	e30	e130	e19	e12	7.6	4.1	3.5	e2.8
25	.31	.57	2.0	1150	e28	e115	e18	11	7.7	3.8	3.4	e2.9
26	.27	.81	1.5	263	e27	e100	e18	10	7.9	3.7	3.2	e2.9
27	.37	.77	1.2	151	e25	e90	e17	10	9.2	3.5	3.2	e2.8
28	.44	.73	e1.0	114	e24	e80	e17	10	8.0	3.4	3.0	e2.8
29	.47	.65	e.90	104	---	e70	e16	9.8	7.4	3.2	3.0	e2.7
30	.45	.65	e.62	e80	---	e60	e15	9.6	7.8	3.3	e2.9	e2.7
31	.34	---	e.58	e65	---	e55	---	9.3	---	3.2	e2.9	---
TOTAL	14.79	17.28	33.51	8705.70	1909	16909	807	414.7	259.8	159.1	104.7	86.4
MEAN	.48	.58	1.08	281	68.2	545	26.9	13.4	8.66	5.13	3.38	2.88
MAX	1.6	2.5	2.0	1850	331	5390	50	22	11	8.0	4.2	3.0
MIN	.18	.31	.58	.50	24	20	15	9.3	7.3	3.2	2.9	2.7
AC-FT	29	34	66	17270	3790	33540	1600	823	515	316	208	171

e Estimated.

11132500 SALSIPUEDES CREEK NEAR LOMPOC, CA--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1941 - 1995, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	.73	2.18	7.51	24.8	38.2	39.0	14.7	4.25	2.23	1.29	.88	.75
MAX	4.26	48.6	102	281	294	545	158	28.5	12.5	8.23	5.77	4.51
(WY)	1942	1966	1956	1995	1962	1995	1941	1983	1983	1941	1941	1941
MIN	.000	.041	.050	.081	.33	.36	.21	.000	.000	.000	.015	.010
(WY)	1962	1991	1990	1991	1991	1990	1989	1961	1961	1961	1972	1972

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1941 - 1995	
ANNUAL TOTAL	1296.71		29420.99			
ANNUAL MEAN	3.55		80.6		10.9	
HIGHEST ANNUAL MEAN					80.6	
LOWEST ANNUAL MEAN					.17	
HIGHEST DAILY MEAN	236	Feb 17	5390	Mar 11	5390	Mar 11 1995
LOWEST DAILY MEAN	.18	Sep 30	.18	Oct 1	.00	Jul 23 1948
ANNUAL SEVEN-DAY MINIMUM	.19	Sep 27	.32	Oct 20	.00	Jul 23 1948
INSTANTANEOUS PEAK FLOW			7850	Mar 10	11400	Mar 15 1952
INSTANTANEOUS PEAK STAGE			15.59	Mar 10	20.80	Mar 15 1952
ANNUAL RUNOFF (AC-FT)	2570		58360		7930	
10 PERCENT EXCEEDS	4.2		109		12	
50 PERCENT EXCEEDS	1.2		7.4		1.3	
90 PERCENT EXCEEDS	.31		.47		.09	

WATER-QUALITY RECORDS

WATER TEMPERATURE: Water years 1982-83.

WATER TEMPERATURE: Water years 1982-83.

INSTRUMENTATION.--Water-quality monitor, water years 1982-83.

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)	BARO-METRIC PRES-SURE (MM OF HG)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION)	HARD-NESS TOTAL (MG/L AS CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)
OCT 04...	1625	1.5	1580	8.1	18.0	--	--	--	--	--	--
NOV 03...	0900	0.37	1630	8.0	10.5	--	--	--	--	--	--
DEC 13...	1445	1.8	1490	8.5	10.0	--	--	--	--	--	--
JAN 06...	1445	6.3	1110	7.7	11.5	--	--	--	--	--	--
FEB 14...	1630	128	717	8.1	13.0	--	--	--	--	--	--
MAR 08...	1220	67	1110	8.3	14.0	--	--	--	--	--	--
APR 06...	1235	35	1310	8.2	15.5	755	9.8	100	560	150	44
MAY 24...	1250	11	1340	8.0	14.5	--	--	--	--	--	--
JUN 22...	1110	7.2	1290	8.2	17.0	--	--	--	--	--	--
AUG 10...	1020	3.2	1460	8.1	18.0	--	--	--	--	--	--

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

[illegible]

SANTA YNEZ RIVER BASIN

11134800 MIGUELITO CREEK AT LOMPOC, CA

LOCATION.--Lat 34°37'54", long 120°27'50", in Lompoc Grant, Santa Barbara County, Hydrologic Unit 18060010, on left bank 120 ft upstream from drop structure to debris basin and 1,900 ft south of Lompoc Union High School.

DRAINAGE AREA.--11.6 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1970 to May 6, 1986, October 1987 to current year.

GAGE.--Water-stage recorder and concrete control. Datum of gage is 97.94 ft, Santa Barbara County Flood Control District datum. Prior to May 6, 1986, on right bank at site 350 ft downstream at different datum.

REMARKS.--Records poor. No regulation or diversion upstream from station; some pumping from wells along stream for irrigation. Satellite telemeter at station. See schematic diagram of Santa Ynez River basin.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,830 ft³/s, Mar. 10, 1995, gage height, 3.71 ft, from theoretical rating curve above 50 ft³/s; no flow for many days in some years.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Jan. 25, 1969, reached a stage of 5.83 ft, site in use prior to 1986, from floodmark, discharge, 680 ft³/s.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 140 ft³/s (revised) and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Jan. 4	1715	1,440	3.26	Feb. 14	0400	146	1.26
Jan. 10	0045	1,390	3.20	Mar. 10	1515	*1,830	*3.71
Jan. 20	1515	258	1.54	Mar. 19	unknown	unknown	unknown
Jan. 25	0015	414	1.85				

Minimum daily, 0.03 ft³/s, Dec. 10, 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	.12	e.19	e.07	e.05	9.7	e1.3	e7.8	e3.2	e2.4	1.1	e.86	e.69
2	.12	e.20	e.06	e.04	9.2	e1.2	e7.6	e3.1	e2.4	1.6	e.85	e.69
3	.08	e.22	e.06	e2.5	8.8	e1.1	e7.4	e3.0	e2.4	1.6	e.84	e.69
4	e.70	e.18	e.06	e55	8.7	e1.0	e7.2	e2.8	e2.3	2.5	e.82	e.69
5	e.50	e.16	e.05	e9.0	7.3	28	e7.0	e2.7	e2.3	2.0	e.80	e.69
6	e.40	e.17	e.05	e1.5	7.0	e10	e6.8	e2.6	e2.3	e1.5	e.79	e.69
7	e.35	e.20	e.04	e55	6.6	e8.0	e6.4	e2.5	e2.3	e1.1	e.78	e.69
8	e.28	e.16	e.04	e38	7.5	6.2	e6.1	e2.4	e2.2	e1.1	e.76	e.68
9	e.27	e.17	e.04	e50	6.0	14	e5.8	e2.2	e2.2	e1.1	e.74	e.68
10	e.26	e1.2	e.03	e300	6.3	772	e5.4	e2.1	e2.2	e1.0	e.73	e.68
11	e.26	e.47	e.03	e50	5.8	1170	e5.0	e2.0	e2.1	e1.0	e.73	e.68
12	e.25	e.21	e.20	e30	5.9	455	e4.7	e2.4	e2.1	e.95	e.73	e.68
13	e.25	e.14	e.08	e20	5.6	133	e4.4	e2.8	e2.1	e.91	e.73	e.68
14	e.25	e.14	e.04	e16	21	28	e4.0	e3.5	e2.0	e.88	e.72	e.67
15	e.24	e.13	e.04	e13	4.4	22	e5.0	e4.0	e2.0	e.85	e.72	e.67
16	e.24	e.13	e.04	e9.0	2.3	21	e6.0	e3.8	e9.0	e1.1	e.72	e.67
17	e.24	e.12	e.04	e7.0	2.0	21	e4.9	e3.6	2.4	e1.4	e.72	e.67
18	e.24	e.12	e.04	e5.5	e1.9	e80	e4.8	e3.4	2.4	e1.3	e.72	e.67
19	e.23	e.12	e.04	4.4	e1.9	e250	e4.7	e3.2	1.9	e1.2	e.72	e.67
20	e.23	e.11	e.04	53	e1.8	e120	e4.5	e3.1	1.6	e1.3	e.71	e.66
21	e.23	e.11	e.04	7.4	e1.8	e50	e4.4	e3.1	1.5	e1.4	e.71	e.66
22	e.22	e.10	e.04	24	e1.7	22	e4.3	e3.1	1.4	e1.2	e.71	e.66
23	e.22	e.10	e.04	68	e1.6	14	e4.2	e3.1	1.6	e1.0	e.71	e.66
24	e.22	e.10	e.26	136	e1.6	10	e4.1	e2.7	1.8	e.99	e.71	e.66
25	e.22	e.09	e.30	126	e1.5	10	e4.0	e2.7	1.5	e.97	e.71	e.66
26	e.21	e.09	e.17	25	e1.4	9.2	e3.8	e2.6	1.5	e.96	e.70	e.65
27	e.21	e.08	e.12	17	e1.4	9.2	e3.7	e2.6	1.3	e.94	e.70	e.65
28	e.21	e.08	e.10	16	e1.3	8.9	e3.6	e2.6	1.2	e.92	e.70	e.65
29	e.20	e.08	e.09	13	---	8.0	e3.4	e2.5	1.1	e.91	e.70	e.65
30	e.20	e.07	e.07	12	---	8.0	e3.3	e2.5	1.1	e.90	e.70	e.65
31	e.20	---	e.06	11	---	8.0	---	e2.5	---	e.88	e.70	---
TOTAL	7.85	5.44	2.38	1174.39	142.0	3300.1	154.3	88.4	64.6	36.56	22.94	20.14
MEAN	.25	.18	.077	37.9	5.07	106	5.14	2.85	2.15	1.18	.74	.67
MAX	.70	1.2	.30	300	21	1170	7.8	4.0	9.0	2.5	.86	.69
MIN	.08	.07	.03	.04	1.3	1.0	3.3	2.0	1.1	.85	.70	.65
AC-FT	16	11	4.7	2330	282	6550	306	175	128	73	46	40

e Estimated.

11134800 MIGUELITO CREEK AT LOMPOC, 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	.23	.45	1.57	3.89	5.00	9.57	1.97	1.02	.65	.46	.34	.32
MAX	1.39	1.67	8.69	37.9	19.7	106	14.2	6.04	3.79	2.64	2.33	2.05
(WY)	1984	1983	1993	1995	1978	1995	1983	1983	1983	1983	1983	1983
MIN	.001	.001	.008	.019	.047	.091	.076	.053	.008	.016	.006	.000
(WY)	1973	1978	1990	1991	1972	1972	1972	1972	1992	1992	1972	1972

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR				FOR 1995 WATER YEAR				WATER YEARS 1971 - 1995			
ANNUAL TOTAL	290.34				5019.10							
ANNUAL MEAN	.80				13.8				2.12			
HIGHEST ANNUAL MEAN									13.8			
LOWEST ANNUAL MEAN									.15			
HIGHEST DAILY MEAN	20 Feb 20				1170 Mar 11				1170 Mar 11 1995			
LOWEST DAILY MEAN	.03 Dec 10				.03 Dec 10				.00 Jul 21 1971			
ANNUAL SEVEN-DAY MINIMUM	.04 Dec 5				.04 Dec 5				.00 Sep 8 1971			
INSTANTANEOUS PEAK FLOW					1830 Mar 10				1830 Mar 10 1995			
INSTANTANEOUS PEAK STAGE					3.71 Mar 10				3.71 Mar 10 1995			
ANNUAL RUNOFF (AC-FT)	576				9960				1530			
10 PERCENT EXCEEDS	2.2				12				2.5			
50 PERCENT EXCEEDS	.33				1.2				.33			
90 PERCENT EXCEEDS	.08				.10				.02			

11134800 MIGUELITO CREEK AT LOMPOC, CA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--

CHEMICAL DATA: Water years 1980-86, 1988 to current year.

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)	BARO-METRIC PRES-SURE (MM OF HG)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN, DIS-SOLVED SATUR-ATION)	HARD-NESS TOTAL (MG/L AS CaCO3)	CALCIUM DIS-SOLVED (MG/L AS Ca)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)
OCT 04...	1155	0.25	1650	8.4	17.5	--	--	--	--	--	--
NOV 01...	1555	0.19	1540	8.4	14.0	--	--	--	--	--	--
DEC 14...	0905	0.04	1640	8.0	6.5	--	--	--	--	--	--
FEB 15...	1020	5.9	1050	8.2	9.5	--	--	--	--	--	--
MAR 08...	1635	6.2	1070	8.3	14.5	--	--	--	--	--	--
APR 06...	1430	6.8	1240	8.2	16.0	758	10.3	105	540	120	58
MAY 24...	1600	2.7	1340	8.4	15.0	--	--	--	--	--	--
JUN 21...	1520	1.6	1250	8.2	18.5	--	--	--	--	--	--
AUG 10...	1410	0.73	1490	8.0	18.0	--	--	--	--	--	--

[illegible]

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

[illegible]

11136100 SAN ANTONIO CREEK NEAR CASMALIA, CA

LOCATION.--Lat 34°46'56", long 120°31'47", in Jesus Maria Grant, Santa Barbara County, Hydrologic Unit 18060009, on Vandenberg Military Reservation, on downstream side of San Antonio Road Bridge, 0.7 mi east of junction of San Antonio Road and Lompoc-Casmalia Road, and 3.8 mi south of Casmalia.

DRAINAGE AREA.--135 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1955 to September 1993, October 1994 to September 1995.

GAGE.--Water-stage recorder and concrete control. Elevation of gage is 160 ft above sea level, from topographic map. Prior to June 27, 1958, at datum 2.00 ft higher.

REMARKS.--No estimated daily discharges. Records good. No regulation upstream from station. Flow affected by pumping from wells along stream for irrigation upstream from station. At times water is released to creek from Vandenberg Air Force Base Water-Treatment Plant.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 4,680 ft³/s, Mar. 1, 1983, gage height, 14.32 ft, from rating curve extended above 1,100 ft³/s on basis of slope-area measurement at gage height 12.93 ft; minimum daily, 0.10 ft³/s, June 19, 20, 1957.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 100 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Jan. 5	0130	128	3.13	Jan. 25	1545	1,560	8.31
Jan. 7	0900	174	3.43	Feb. 14	0715	535	5.16
Jan. 10	1200	696	5.77	Mar. 5	1815	290	4.05
Jan. 14	1945	132	3.16	Mar. 10	2200	*2,890	*11.21
Jan. 20	2115	121	3.08	Mar. 23	0715	591	5.38

Minimum daily, 0.30 ft³/s, Dec. 8, 9, 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	.37	.45	.37	.44	13	3.3	13	2.5	1.7	.84	.72	.60
2	.37	.43	.37	.48	9.1	3.4	11	2.5	1.8	.83	.73	.65
3	.39	.43	.37	1.4	5.9	3.8	8.6	2.5	2.0	.78	.72	.61
4	.44	.44	.35	28	3.6	3.4	7.7	2.5	1.6	.74	.72	.60
5	.44	.42	.34	34	2.6	105	7.1	2.4	1.5	.73	.72	.60
6	.40	.44	.33	2.6	2.2	80	6.0	2.4	1.5	.72	.70	.60
7	.40	.43	.31	45	1.9	20	4.9	2.6	1.5	.78	.66	.60
8	.39	.48	.30	3.6	2.9	13	4.4	2.5	1.7	.78	.66	.60
9	.36	.46	.30	7.5	2.2	17	3.8	2.9	1.5	.78	.66	.57
10	.37	.88	.33	390	1.4	737	3.8	2.5	1.6	.78	.66	.56
11	.41	.51	.30	152	1.2	908	3.6	2.9	1.5	.76	.64	.56
12	.41	.45	.36	76	1.2	334	3.6	2.5	1.5	.75	.66	.56
13	.39	.41	.41	21	1.2	143	3.6	3.1	1.5	.71	.66	.61
14	.37	.39	.41	48	232	94	3.6	2.8	1.5	.72	.66	.60
15	.39	.44	.50	59	53	73	3.7	3.6	1.9	.72	.66	.66
16	.36	.53	.42	61	22	58	3.9	3.1	5.0	.72	.66	.62
17	.33	.48	.41	25	10	47	3.5	2.5	2.5	.74	.61	.60
18	.36	.45	.41	15	7.3	38	3.7	2.4	1.1	.72	.60	.60
19	.39	.44	.40	11	6.5	32	3.6	2.8	1.5	.72	.60	.57
20	.40	.44	.40	40	5.7	31	3.5	2.7	1.3	.77	.56	.56
21	.39	.44	.41	42	4.8	43	3.4	2.5	1.5	.80	.56	.56
22	.39	.44	.40	13	4.3	55	3.2	2.5	1.2	.78	.58	.57
23	.44	.44	.43	88	4.0	342	3.3	2.6	1.1	.78	.66	.60
24	.47	.44	.55	409	3.7	129	3.2	3.0	1.1	.76	.62	.60
25	.47	.46	.54	852	3.5	76	2.9	2.0	1.1	.75	.60	.60
26	.45	.46	.45	250	3.6	53	2.7	1.9	1.1	.72	.65	.60
27	.47	.41	.46	358	3.5	44	2.7	1.9	1.2	.70	.66	.60
28	.49	.40	.44	76	3.5	37	2.5	1.5	1.2	.72	.66	.60
29	.47	.35	.44	50	---	29	2.5	1.6	1.2	.72	.66	.62
30	.47	.37	.44	33	---	23	2.5	1.6	1.0	.72	.66	.69
31	.47	---	.44	24	---	16	---	1.6	---	.72	.61	---
TOTAL	12.72	13.61	12.39	3216.02	415.8	3590.9	135.5	76.4	47.4	23.26	20.18	17.97
MEAN	.41	.45	.40	104	14.8	116	4.52	2.46	1.58	.75	.65	.60
MAX	.49	.88	.55	852	232	908	13	3.6	5.0	.84	.73	.69
MIN	.33	.35	.30	.44	1.2	3.3	2.5	1.5	1.0	.70	.56	.56
AC-FT	25	27	25	6380	825	7120	269	152	94	46	40	36

11136100 SAN ANTONIO CREEK NEAR CASMALIA, 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	.80	1.60	2.81	12.3	24.4	21.4	7.41	1.41	.93	.67	.69	.73
MAX	2.36	6.73	10.6	104	163	234	149	3.85	2.07	1.59	1.84	2.23
(WY)	1964	1973	1956	1995	1962	1983	1958	1983	1983	1983	1981	1972
MIN	.19	.19	.29	.41	.54	.44	.30	.24	.17	.18	.21	.16
(WY)	1990	1990	1990	1991	1991	1990	1990	1990	1990	1990	1990	1990

SUMMARY STATISTICS

FOR 1995 WATER YEAR

WATER YEARS 1956 - 1995

ANNUAL TOTAL	7582.15		
ANNUAL MEAN	20.8	6.17	
HIGHEST ANNUAL MEAN		39.7	1983
LOWEST ANNUAL MEAN		.47	1990
HIGHEST DAILY MEAN	908	Mar 11	2040
LOWEST DAILY MEAN	.30	Dec 8	.10
ANNUAL SEVEN-DAY MINIMUM	.32	Dec 5	.13
INSTANTANEOUS PEAK FLOW	2890	Mar 10	4680
INSTANTANEOUS PEAK STAGE	11.21	Mar 10	14.32
ANNUAL RUNOFF (AC-FT)	15040		4470
10 PERCENT EXCEEDS	37		4.6
50 PERCENT EXCEEDS	.80		1.1
90 PERCENT EXCEEDS	.40		.36

11136100 SAN ANTONIO CREEK NEAR CASMALIA, CA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1978 to current year.

CHEMICAL DATA: Water years 1978 to current year.

pH: December 1981 to September 1983.

WATER TEMPERATURE: December 1981 to September 1983.

PERIOD OF DAILY RECORD.--

pH: December 1981 to September 1983.

WATER TEMPERATURE: December 1981 to September 1983.

INSTRUMENTATION.--Water-quality monitor from December 1981 to September 1983.

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)	BARO-METRIC PRES-SURE (MM OF HG)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION)	HARD-NESS TOTAL (MG/L AS CaCO3)	CALCIUM DIS-SOLVED (MG/L AS Ca)	MAGNE-SIUM, DIS-SOLVED (MG/L AS Mg)
OCT 03...	1620	0.33	2380	8.0	17.0	--	--	--	--	--	--
NOV 01...	1320	0.42	2360	8.1	11.5	--	--	--	--	--	--
DEC 14...	1345	0.42	2380	8.4	8.0	--	--	--	--	--	--
JAN 13...	1045	27	1250	7.9	13.0	--	--	--	--	--	--
FEB 15...	1525	48	1880	7.8	11.5	--	--	--	--	--	--
MAR 09...	1030	9.6	2550	7.9	14.0	--	--	--	--	--	--
APR 06...	0945	7.1	2860	7.9	14.0	757	10.2	101	1000	260	87
MAY 25...	1015	1.5	3630	7.8	14.0	--	--	--	--	--	--
JUN 30...	1005	0.86	3720	7.9	17.0	--	--	--	--	--	--
AUG 11...	0945	0.65	3440	7.9	18.5	--	--	--	--	--	--

[illegible]

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

[illegible]

SANTA MARIA RIVER BASIN

11136800 CUYAMA RIVER BELOW BUCKHORN CANYON, NEAR SANTA MARIA, CA

LOCATION.--Lat 35°01'19", long 120°13'39", SW 1/4 sec.14, T.11 N., R.32 W., San Luis Obispo-Santa Barbara County Line, Hydrologic Unit 18060007, on downstream side of bridge on State Highway 166, 1.5 mi downstream from Buckhorn Canyon, and 13 mi northeast of Santa Maria.

DRAINAGE AREA.--886 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1903 to December 1905 (published as Santa Maria River near Santa Maria), October 1959 to current year. Monthly discharge only for October 1903 and July 1904. Yearly estimate for water year 1941 (incomplete), published in WSP 1315-B.

REVISED RECORDS.--WDR CA-71-1: Drainage area. WDR CA-77-1: 1976.

GAGE.--Water-stage recorder. Elevation of gage is 760 ft above sea level, from topographic map. Prior to October 1959, nonrecording gage at different site and datum.

REMARKS.--Records poor. No regulation upstream from station. Pumping from wells along stream for irrigation of several thousand acres in Upper Cuyama Valley.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 17,800 ft³/s, Feb. 25, 1969, gage height, 13.70 ft, from rating curve extended above 4,900 ft³/s on basis of slope-area measurement at gage height 10.85 ft; maximum gage height, 14.74 ft, Mar. 4, 1978; no flow at times in most years.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 200 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Jan. 10	unknown	8,730	11.10	Mar. 5	unknown	2,700	unknown
Jan. 25	unknown	10,300	11.62	Mar. 11	unknown	*14,000	*12.93
Feb. 14	unknown	5,630	9.98	Mar. 22	unknown	3,650	9.25

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.64	e31	e100	e130	e34	e11	e6.6	e10	e2.5
2	.00	.00	.00	e1.0	e23	e200	e120	e33	e11	e6.3	e8.5	e2.5
3	.00	.00	.00	e2.0	e19	e300	e110	e32	e11	e6.1	e7.5	e2.5
4	.00	.00	.00	e6.0	e16	e800	e105	e31	e11	e6.0	e6.5	e2.5
5	.00	.00	.00	e40	e14	e1000	e98	e30	e10	e5.8	e5.6	e2.5
6	.00	.00	.00	27	e15	e600	e94	e29	e10	e5.6	e5.0	e2.5
7	.00	.00	.00	7.0	e18	e320	e90	e27	e9.8	e5.5	e4.3	e2.4
8	.00	.00	.00	13	e20	e180	e85	e26	e9.6	e5.2	e3.8	e2.4
9	.00	.00	.00	4.0	e16	e110	e81	e25	e9.5	e5.1	e3.3	e2.4
10	.00	.00	.00	e3300	e15	e1000	e77	e25	e9.2	e5.0	e2.9	e2.4
11	.00	.00	.00	e1200	e14	e8100	e74	e24	e8.6	e5.2	e2.5	e2.4
12	.00	.00	.00	e250	e40	e1300	e71	e23	e8.0	e5.5	e2.3	e2.4
13	.00	.00	.00	e50	e250	e900	e68	e22	e9.0	e5.7	e3.0	e2.4
14	.00	.00	.00	e70	e2400	e750	e65	e25	e11	e5.9	e3.6	e2.4
15	.00	.00	.00	e100	e1000	e650	e63	e30	e13	e6.0	e3.4	e2.4
16	.00	.00	.00	e70	e400	e570	e61	e35	e16	e5.7	e3.2	e2.4
17	.00	.00	.00	e37	e150	e530	e59	e22	e20	e5.6	e3.1	e2.4
18	.00	.00	.00	e23	e70	e500	e56	e20	e18	e5.4	e3.0	e2.4
19	.00	.00	.00	e13	e50	e750	e54	e19	e16	e5.3	e3.0	e2.4
20	.00	.00	.00	e8.5	e40	e1200	e52	e18	e13	e5.1	e2.9	e2.4
21	.00	.00	.00	e25	e35	e2000	e49	e18	e12	e5.0	e2.9	e2.4
22	.00	.00	.00	e80	e30	e4000	e48	e17	e11	e4.9	e2.8	e2.3
23	.00	.00	.00	e150	e27	e1800	e46	e16	e9.0	e4.8	e2.8	e2.3
24	.00	.00	e.50	e900	e24	e950	e44	e15	e7.5	e4.6	e2.7	e2.3
25	.00	.00	e.25	e2800	e20	e450	e42	e15	e6.5	e4.4	e2.7	e2.3
26	.00	.00	e.25	e1000	e19	e330	e41	e14	e5.6	e4.3	e2.7	e2.3
27	.00	.00	e.26	e250	e18	e260	e40	e13	e6.5	e4.2	e2.6	e2.3
28	.00	.00	e.27	e130	e60	e220	e38	e13	e7.8	e4.1	e2.6	e2.3
29	.00	.00	e.30	e90	---	e190	e37	e12	e7.2	e4.0	e2.6	e2.2
30	.00	.00	e.35	e52	---	e170	e35	e12	e6.8	e4.5	e2.6	e2.2
31	.00	---	e.45	e38	---	e150	---	e12	---	e6.0	e2.5	---
TOTAL	0.00	0.00	2.63	10737.14	4834	30180	2033	687	314.6	163.4	116.9	71.5
MEAN	.000	.000	.085	346	173	974	67.8	22.2	10.5	5.27	3.77	2.38
MAX	.00	.00	.50	3300	2400	8100	130	35	20	6.6	10	2.5
MIN	.00	.00	.00	.64	14	100	35	12	5.6	4.0	2.3	2.2
AC-FT	.00	.00	5.2	21300	9590	59860	4030	1360	624	324	232	142

e Estimated.

11136800 CUYAMA RIVER BELOW BUCKHORN CANYON, NEAR SANTA MARIA, 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	.56	2.47	12.5	40.5	94.7	108	22.8	6.35	3.01	1.41	.78	1.48
MAX	8.40	23.6	275	467	920	974	214	53.6	23.6	8.87	6.99	22.7
(WY)	1984	1966	1967	1969	1969	1995	1967	1983	1983	1969	1983	1990
MIN	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
(WY)	1960	1960	1960	1960	1964	1961	1961	1961	1961	1960	1960	1960

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1960 - 1995	
ANNUAL TOTAL	288.50		49140.17			
ANNUAL MEAN	.79		135		24.2	
HIGHEST ANNUAL MEAN					141	
LOWEST ANNUAL MEAN					.002	
HIGHEST DAILY MEAN	24	Feb 20	8100	Mar 11	9390	Feb 25 1969
LOWEST DAILY MEAN	.00	Jul 27	.00	Oct 1	.00	Oct 1 1959
ANNUAL SEVEN-DAY MINIMUM	.00	Aug 6	.00	Oct 1	.00	Oct 1 1959
INSTANTANEOUS PEAK FLOW			14000	Mar 11	17800	Feb 25 1969
INSTANTANEOUS PEAK STAGE			12.93	Mar 11	13.70	Dec 25 1969
ANNUAL RUNOFF (AC-FT)	572		97470		17520	
10 PERCENT EXCEEDS	2.1		194		15	
50 PERCENT EXCEEDS	.10		6.0		.41	
90 PERCENT EXCEEDS	.00		.00		.00	

11136800 CUYAMA RIVER BELOW BUCKHORN CANYON, NEAR SANTA MARIA, CA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--

CHEMICAL DATA: Water year 1978 to current year.

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)	BARO- METRIC PRES- SURE (MM OF HG)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)	HARD- NESS TOTAL (MG/L AS CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)
JAN											
11...	1250	1160	2420	7.6	11.0	--	--	--	--	--	--
FEB											
22...	1335	30	1580	7.9	17.5	--	--	--	--	--	--
MAR											
10...	1715	939	470	7.5	12.5	--	--	--	--	--	--
APR											
03...	1230	108	1450	8.1	18.0	744	9.5	103	610	150	58
MAY											
26...	1730	14	1750	8.2	23.0	--	--	--	--	--	--
JUN											
28...	1330	7.6	1700	8.0	26.0	--	--	--	--	--	--
AUG											
11...	1450	2.5	1330	8.0	26.0	--	--	--	--	--	--

[illegible][illegible]

11138500 SISQUOC RIVER NEAR SISQUOC, CA

LOCATION.--Lat 34°50'23", long 120°10'02", in Sisquoc Grant, Santa Barbara County, Hydrologic Unit 18060008, on left bank 2.6 mi upstream from La Brea Creek and 7 mi east of Sisquoc.

DRAINAGE AREA.--281 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1943 to current year. October 1929 to September 1933, at site 0.2 mi downstream; low-flow records not equivalent owing to diversion immediately upstream. Monthly discharge only for some periods, published in WSP 1315-B.

REVISED RECORDS.--WSP 1928: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 624.30 ft above sea level (levels by U.S. Army Corps of Engineers). See WSP 1735 for history of changes prior to Aug. 24, 1951.

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

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 23,200 ft³/s, Dec. 6, 1966, gage height, 15.75 ft, from rating curve extended above 1,700 ft³/s on basis of slope-area measurements at gage heights 10.08 and 15.75 ft; no flow Nov. 11-18, 1967.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Mar. 2, 1938, reached a discharge of 11,000 ft³/s, gage height, 8.1 ft, from high-water mark in gage well, at site in use 1929-33, from rating curve extended above 2,800 ft³/s.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 250 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Jan. 5	0130	583	3.53	Mar. 5	2115	1740	5.18
Jan. 10	1000	*6750	*8.71	Mar. 11	0145	6520	8.59
Jan. 24	1345	3580	6.79	Mar. 23	0800	2890	6.26
Feb. 14	1145	1490	4.89				

Minimum daily, 0.27 ft³/s, Oct. 09, 31, Nov. 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	.64	.27	.65	2.6	e280	e160	e440	135	62	24	e35	e4.9
2	.61	.31	.72	2.7	e260	e200	e400	132	62	22	e25	e5.0
3	.65	.32	.77	5.8	e240	e300	e380	128	61	22	e20	e5.0
4	2.5	.33	.81	28	e220	e500	e360	125	60	21	e15	e5.0
5	.80	.33	.67	359	e210	675	345	124	56	21	e10	e5.2
6	.54	.29	.66	121	e200	762	319	124	51	20	e9.2	e5.2
7	.51	.31	.67	155	e220	450	305	120	51	e19	e8.8	e5.2
8	.41	.34	.71	147	e230	e400	291	115	50	e18	e7.0	e5.2
9	.27	.33	.75	603	e250	e320	282	109	49	e16	e6.5	e5.2
10	.30	1.9	.71	2330	e225	600	271	105	47	e15	e6.0	e5.2
11	.33	.73	.72	1110	e210	3230	257	103	45	e16	e5.0	e5.0
12	.35	.66	.99	481	e200	1460	246	102	41	e17	e4.7	e5.0
13	.38	.57	1.1	315	e2000	1100	238	100	34	e18	e6.0	e5.0
14	.40	.51	1.1	257	726	896	234	99	32	e19	e8.0	e5.0
15	.41	.53	1.2	322	494	780	224	106	42	e20	e5.1	e5.0
16	.33	.68	1.2	276	400	e700	225	133	51	e19	e4.5	e5.0
17	.33	.63	1.2	257	292	e600	215	105	53	e18	e4.2	e5.0
18	.33	.73	1.2	256	272	e540	209	93	47	e17	e4.3	e5.0
19	.33	.71	1.3	207	260	e460	203	91	39	e16	e4.4	e4.9
20	.34	.68	1.3	157	255	e700	192	89	28	e16	e4.5	e4.9
21	.34	.63	1.3	169	239	e1000	184	86	25	e15	e4.7	e4.9
22	.34	.63	1.3	150	219	e2500	176	84	22	e15	e4.9	e4.9
23	.31	.60	1.4	219	201	1720	169	82	20	e14	e5.2	e4.9
24	.33	.65	3.2	2250	e190	917	162	81	16	e13	e5.2	e4.8
25	.33	.85	2.5	1950	e180	722	157	81	13	e13	e5.1	e4.8
26	.33	1.0	2.4	933	e175	646	152	75	12	e12	e5.1	e4.8
27	.33	.80	2.3	639	e170	613	148	70	11	e12	e5.0	e4.8
28	.34	.64	2.6	497	e165	e600	144	69	9.9	e11	e5.0	e4.8
29	.34	.62	2.6	e450	---	e590	141	67	19	e11	e5.0	e4.7
30	.30	.62	2.6	e380	---	e550	139	66	24	e10	e4.9	e4.7
31	.27	---	2.6	e320	---	e480	---	64	---	e25	e4.9	---
TOTAL	14.32	18.20	43.23	15349.1	8983	25171	7208	3063	1132.9	525	248.2	149.0
MEAN	.46	.61	1.39	495	321	812	240	98.8	37.8	16.9	8.01	4.97
MAX	2.5	1.9	3.2	2330	2000	3230	440	135	62	25	35	5.2
MIN	.27	.27	.65	2.6	165	160	139	64	9.9	10	4.2	4.7
AC-FT	28	36	86	30440	17820	49930	14300	6080	2250	1040	492	296

e Estimated.

SANTA MARIA RIVER BASIN

11138500 SISQUOC RIVER NEAR SISQUOC, CA--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1944 - 1995, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	2.51	6.74	26.9	84.0	154	148	91.5	30.7	11.1	4.48	2.38	2.42
MAX	46.0	80.5	555	1457	1731	871	975	208	80.1	33.9	17.4	17.9
(WY)	1968	1966	1967	1969	1969	1983	1958	1967	1983	1983	1983	1967
MIN	.13	.15	.20	.42	.97	1.44	.55	.34	.73	.32	.16	.20
(WY)	1990	1990	1990	1991	1949	1948	1990	1990	1990	1989	1989	1989

SUMMARY STATISTICS

FOR 1994 CALENDAR YEAR

FOR 1995 WATER YEAR

WATER YEARS 1944 - 1995

ANNUAL TOTAL	5949.32	61904.95	
ANNUAL MEAN	16.3	170	
HIGHEST ANNUAL MEAN			46.4
LOWEST ANNUAL MEAN			361
HIGHEST DAILY MEAN	316	Feb 20	1969
LOWEST DAILY MEAN	.18	Aug 15	1948
ANNUAL SEVEN-DAY MINIMUM	.25	Aug 11	1.07
INSTANTANEOUS PEAK FLOW			14800
INSTANTANEOUS PEAK STAGE			.00
ANNUAL RUNOFF (AC-FT)	11800	122800	.00
10 PERCENT EXCEEDS	41	468	.00
50 PERCENT EXCEEDS	2.5	20	.00
90 PERCENT EXCEEDS	.35	.54	.00

WATER-QUALITY RECORDS

CHEMICAL DATA: Water years 1978 to current year.

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)	BARO- METRIC PRES- SURE (MM OF HG)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED SATUR- ATION)	HARD- NESS TOTAL (MG/L AS CaCO3)	CALCIUM DIS- SOLVED (MG/L AS Ca)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)
OCT											
05...	1015	0.74	1200	7.8	17.0	--	--	--	--	--	--
DEC											
15...	1055	1.1	1190	8.2	10.0	--	--	--	--	--	--
JAN											
05...	1200	358	637	7.7	9.0	--	--	--	--	--	--
FEB											
16...	1220	314	864	8.3	10.5	--	--	--	--	--	--
MAR											
10...	1140	289	928	8.5	13.0	--	--	--	--	--	--
APR											
05...	1200	335	1020	8.2	14.0	747	9.5	94	510	110	57
MAY											
26...	1155	71	1100	8.5	18.0	--	--	--	--	--	--
JUN											
29...	1220	27	1080	8.1	21.5	--	--	--	--	--	--
AUG											
15...	1610	5.1	1120	8.3	27.0	--	--	--	--	--	--

[illegible]

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

[illegible]

11140000 SISQUOC RIVER NEAR GAREY, CA

LOCATION.--Lat 34°53'38", long 120°18'20", in SW 1/4 sec.36, T.10 N., R.33 W., Santa Barbara County, Hydrologic Unit 18060008, on downstream side of Santa Maria Mesa Road Bridge near left bank, 0.6 mi northeast of Garey, and 3.7 mi downstream from Tepusquet Creek.

DRAINAGE AREA.--471 mi².

PERIOD OF RECORD.--October 1940 to current year. Records for water year 1941 incomplete; yearly estimate and monthly discharge only for October 1940 and January 1941, published in WSP 1315-B.

REVISED RECORDS.--WSP 1011: 1941, 1943. WSP 1928: Drainage area.

GAGE.--Water-stage recorder. Datum of main gage is 354.8 ft, Santa Barbara County datum. See WSP 1735 for history of changes of main gage prior to Oct. 1, 1959. Oct. 1, 1959, to Dec. 30, 1965, at datum 6.00 ft higher. Since Oct. 1, 1959, supplementary gage on downstream side of bridge near right bank at same datum. Supplementary gage discontinued June 8, 1992.

REMARKS.--Records poor. No regulation upstream from station. Pumping from wells along stream for irrigation of about 7,000 acres upstream from station. Satellite telemeter at station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 33,600 ft³/s, Mar. 1, 1983, gage height, 11.16 ft, from rating curve extended above 22,000 ft³/s; maximum gage height, 13.50 ft, Dec. 6, 1966; no flow for many days in each year.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 200 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Jan. 5	unknown	unknown	unknown	Mar. 6	0030	4,810	7.55
Jan. 10	1315	11,000	8.65	Mar. 11	0430	*15,600	9.25
Jan. 25	1245	10,300	8.54	Mar. 22	unknown	unknown	unknown
Feb. 16	unknown	unknown	unknown				

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	e420	122	e620	108	e32	.71	.00	.00
2	.00	.00	.00	e1.0	e350	113	e560	113	e31	.42	.00	.00
3	.00	.00	.00	e5.0	e260	116	e520	106	30	.35	.00	.00
4	.00	.00	.00	e15	e230	145	e500	98	29	.14	.00	.00
5	.00	.00	.00	350	e200	1160	410	102	27	.00	.00	.00
6	.00	.00	.00	14	e170	2110	381	107	25	.00	.00	.00
7	.00	.00	.00	18	e150	807	341	101	22	.00	.00	.00
8	.00	.00	.00	26	e200	624	318	94	20	.00	.00	.00
9	.00	.00	.00	584	e250	539	300	90	e17	.00	.00	.00
10	.00	.00	.00	4520	e160	1210	290	84	e14	.00	.00	.00
11	.00	.00	.00	4300	e200	9650	266	78	e12	.00	.00	.00
12	.00	.00	.00	2100	e260	4310	250	74	e11	.00	.00	.00
13	.00	.00	.00	399	e370	3500	242	80	12	.00	.00	.00
14	.00	.00	.00	226	e500	e2000	244	91	12	.00	.00	.00
15	.00	.00	.00	760	e700	e1600	228	96	16	.00	.00	.00
16	.00	.00	.00	567	e1000	e1400	241	151	26	.00	.00	.00
17	.00	.00	.00	290	e750	e1250	224	99	29	.00	.00	.00
18	.00	.00	.00	198	e470	e1150	214	79	24	.00	.00	.00
19	.00	.00	.00	157	e390	e1100	210	67	20	.00	.00	.00
20	.00	.00	.00	121	e310	e1200	181	58	16	.00	.00	.00
21	.00	.00	.00	113	e250	e1900	169	53	13	.00	.00	.00
22	.00	.00	.00	81	e220	e2500	148	52	10	.00	.00	.00
23	.00	.00	.00	87	e180	3460	131	49	7.9	.00	.00	.00
24	.00	.00	.00	4540	e150	2070	120	45	5.9	.00	.00	.00
25	.00	.00	.00	6440	139	1660	111	47	3.0	.00	.00	.00
26	.00	.00	.00	3800	144	e1400	106	e42	2.3	.00	.00	.00
27	.00	.00	.00	e3000	124	e1150	98	e40	1.3	.00	.00	.00
28	.00	.00	.00	e2600	128	e1000	87	e39	1.2	.00	.00	.00
29	.00	.00	.00	e2000	---	e900	92	e37	1.0	.00	.00	.00
30	.00	.00	.00	e700	---	e800	111	e35	.82	.00	.00	.00
31	.00	---	.00	e520	---	e700	---	e34	---	.00	.00	---
TOTAL	0.00	0.00	0.00	38532.00	8675	51646	7713	2349	471.42	1.62	0.00	0.00
MEAN	.000	.000	.000	1243	310	1666	257	75.8	15.7	.052	.000	.000
MAX	.00	.00	.00	6440	1000	9650	620	151	32	.71	.00	.00
MIN	.00	.00	.00	.00	124	113	87	34	.82	.00	.00	.00
AC-FT	.00	.00	.00	76430	17210	102400	15300	4660	935	3.2	.00	.00

e Estimated.

SANTA MARIA RIVER BASIN

11140000 SISQUOC RIVER NEAR GAREY, 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	.13	2.75	17.5	97.3	177	182	80.4	15.4	2.12	.18	.049	.10
MAX	3.88	39.0	506	1531	2165	1833	1072	211	53.0	9.09	1.40	4.00
(WY)	1968	1966	1967	1969	1969	1983	1958	1983	1983	1983	1967	1967
MIN	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
(WY)	1942	1942	1944	1944	1947	1947	1947	1946	1945	1942	1942	1942

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR				FOR 1995 WATER YEAR				WATER YEARS 1942 - 1995			
ANNUAL TOTAL	1918.96				109388.04							
ANNUAL MEAN	5.26				300				47.2			
HIGHEST ANNUAL MEAN									397			
LOWEST ANNUAL MEAN									.000			
HIGHEST DAILY MEAN	291				9650				13200			
LOWEST DAILY MEAN	.00				.00				.00			
ANNUAL SEVEN-DAY MINIMUM	.00				.00				.00			
INSTANTANEOUS PEAK FLOW					15600				33600			
INSTANTANEOUS PEAK STAGE					9.25				13.50			
ANNUAL RUNOFF (AC-FT)	3810				217000				34210			
10 PERCENT EXCEEDS	11				720				38			
50 PERCENT EXCEEDS	.00				.35				.00			
90 PERCENT EXCEEDS	.00				.00				.00			

SANTA MARIA RIVER BASIN

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11141050 ORCUTT CREEK NEAR ORCUTT, CA

LOCATION.--Lat 34°53'01", long 120°29'38", in SW 1/4 SE 1/4 sec.6, T.9 N., R.34 W., Santa Barbara County, Hydrologic Unit 18060008, on right bank 10 ft upstream from Black Road Bridge, 0.2 mi northeast of State Highway 1, and 3.0 mi northwest of Orcutt.

DRAINAGE AREA.--18.5 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1982 to September 1992, October 1994 to September 1995.

GAGE.--Water-stage recorder and crest-stage gage. Elevation of gage is 160 ft above sea level, from topographic map.

REMARKS.--Records poor. No regulation or diversion upstream from station. Natural flow affected by pumping and return flow from irrigated areas.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,830 ft³/s, Mar. 1, 1983, gage height, 7.53 ft, from floodmarks, from rating curve extended above 10 ft³/s on basis of slope-area measurements at gage heights 4.83 and 7.53 ft; maximum gage height, 11.07 ft, Mar. 10, 1995; no flow at times in some years.

EXTREMES FOR CURRENT YEAR.--Peak discharge greater than base discharge of 25 ft³/s and maximum (*).

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Jan. 4	1030	556	4.81	Mar. 5	1515	456	4.52
Jan. 10	unknown	unknown	unknown	Mar. 10	1715	unknown	*11.07
Jan. 25	1000	888	5.62	Mar. 23	2200	unknown	8.14
Feb. 14	0330	1340	6.57				

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	.08	e10	.50	3.0	1.2	.57	.11	.15	.02
2	.00	.00	.00	.14	e8.0	.50	2.2	1.2	.56	.08	.13	.00
3	.00	.00	.00	2.9	e7.5	1.2	1.9	1.1	.42	.07	.09	.02
4	.00	.00	.00	114	e6.2	1.1	1.1	1.1	.36	.09	.05	.00
5	.00	.00	.00	e40	e5.4	135	.79	1.1	.31	.06	.12	.00
6	.00	.00	.00	e14	e4.5	52	1.8	1.3	.27	.04	.13	.04
7	.00	.00	.00	e7.0	e5.2	14	1.7	1.1	.35	.04	.08	.01
8	.00	.00	.00	e15	e6.8	e5.4	1.5	1.1	.34	.06	.04	.00
9	.00	.00	e.02	e30	e7.4	40	1.4	1.1	.26	.05	.09	.03
10	.00	.00	e.04	e60	e10	1460	1.3	.50	.25	.02	.20	.03
11	.00	.00	e.08	e12	e6.2	415	1.3	.54	.21	.02	.07	.00
12	.00	.00	e.10	e6.0	e4.1	202	1.5	.54	.18	.01	.07	.00
13	.00	.00	e.14	e2.7	e11	103	1.8	.66	.20	.09	.09	.00
14	.00	.00	e.20	e6.8	223	89	1.7	.66	.26	.18	.04	.00
15	.00	.00	e.24	e4.5	17	70	1.7	1.8	.51	.23	.07	.00
16	.00	.00	e.30	e2.5	e4.0	58	1.6	1.2	2.2	.36	.03	.00
17	.00	.00	e.40	e1.3	e3.0	40	1.5	.90	.78	.31	.00	.08
18	.00	.00	e.25	e1.0	e1.5	23	1.4	e.70	.50	.24	.04	.00
19	.00	.00	e.33	e3.0	e1.2	23	1.2	e1.0	.36	.14	.22	.01
20	.00	.00	e.50	8.5	e1.0	25	1.2	e1.2	.40	.25	.37	.05
21	.00	.00	e.30	1.2	e.88	100	1.2	e.60	.25	.24	.17	.02
22	.00	.00	e.60	2.5	.74	270	1.2	e.73	.24	.13	.02	.04
23	.00	.00	e.40	16	.62	493	1.2	e.91	.27	.21	.00	.13
24	.00	.00	.62	73	.70	43	1.2	e1.1	.19	.19	.01	.16
25	.00	.00	1.0	366	.57	20	1.2	e.40	.18	.21	.04	.00
26	.00	.00	.20	22	.62	15	1.3	.71	.15	.11	.00	.03
27	.00	.00	.10	e3.0	.54	11	1.3	.65	.15	.21	.00	.06
28	.00	.00	.08	e6.0	.50	8.1	1.3	.55	.14	.09	.00	.03
29	.00	.00	.08	e15	---	6.0	1.3	.52	.15	.16	.00	.00
30	.00	.00	.08	e10	---	5.0	1.4	.47	.19	.16	.00	.00
31	.00	---	.08	e6.2	---	3.6	---	.48	---	.10	.00	---
TOTAL	0.00	0.00	6.12	852.32	348.17	3732.40	44.19	27.12	11.20	4.26	2.32	0.76
MEAN	.000	.000	.20	27.5	12.4	120	1.47	.87	.37	.14	.075	.025
MAX	.00	.00	1.0	366	223	1460	3.0	1.8	2.2	.36	.37	.16
MIN	.00	.00	.00	.08	.50	.50	.79	.40	.14	.01	.00	.00
AC-FT	.00	.00	12	1690	691	7400	88	54	22	8.4	4.6	1.5

e Estimated.

SANTA MARIA RIVER BASIN

11141050 ORCUTT CREEK NEAR ORCUTT, 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	.071	.19	.76	3.83	4.03	16.7	.70	.28	.16	.10	.099	.082
MAX	.29	.63	2.68	27.5	13.7	120	3.17	.87	.43	.29	.23	.18
(WY)	1984	1983	1992	1985	1983	1995	1983	1995	1988	1989	1983	1983
MIN	.000	.000	.073	.040	.070	.059	.020	.031	.024	.008	.003	.006
(WY)	1995	1995	1990	1985	1984	1989	1990	1986	1984	1990	1992	1992

SUMMARY STATISTICS

FOR 1995 WATER YEAR

WATER YEARS 1983 - 1995

ANNUAL TOTAL	5028.86		
ANNUAL MEAN	13.8		2.26
HIGHEST ANNUAL MEAN			13.8
LOWEST ANNUAL MEAN			.090
HIGHEST DAILY MEAN	1460	Mar 10	1460
LOWEST DAILY MEAN	.00	Oct 1	.00
ANNUAL SEVEN-DAY MINIMUM	.00	Oct 1	.00
INSTANTANEOUS PEAK FLOW			1830
INSTANTANEOUS PEAK STAGE	11.07	Mar 10	11.07
ANNUAL RUNOFF (AC-FT)	9970		1640
10 PERCENT EXCEEDS	11		.98
50 PERCENT EXCEEDS	.24		.06
90 PERCENT EXCEEDS	.00		.00

WATER-QUALITY RECORDS

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

[illegible]

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-flow or floodflow analyses, depending on the type of data collected. In addition, discharge measurements are made at other sites not included in the partial-record program. These measurements are generally 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.

Records collected at crest-stage partial-record stations are presented in the following table. Discharge measurements made at miscellaneous sites are given in separate tables.

Crest-stage partial-record stations

The following table contains annual maximum discharges for crest-stage stations. A crest-stage station is a device which will register the peak stage occurring between inspections of the gage. A stage-discharge relation for each gage is developed from discharge measurements made by indirect measurements of peak flow or by current meter. The date of the maximum discharge is not always certain but is usually determined by comparison with nearby continuous-record stations, weather records, or local inquiry. Only the maximum discharge for the current year is given. Information on some lower floods may have been obtained but is not published here. The years given in the period of record represent water years for which the annual maximum has been obtained.

Annual maximum discharge at crest-stage partial-record stations during water year 1995

Station No.	Station name	Location	Drainage area (mi ²)	Period of record	Date	Annual maximum	
						Gage height (ft)	Discharge (ft ³ /s)
Bristol Lake basin							
10253000	Gourd Creek near Ludlow, CA	Lat 34°40'35", long 116°01'20", in SW 1/4 sec.23, T.7 N., R.9 E., San Bernardino County, Hydrologic Unit 18090208, at culvert on U.S. Highway 66, 8.5 mi southeast of Ludlow.	0.30	1959-74, 1976-95	1995	--	0
10261800	Beacon Creek at Helendale, CA	Lat 34°45'00", long 117°18'53", in SE 1/4 sec.29, T.8 N., R.4 W., San Bernardino County, Hydrologic Unit 18090208, at culvert on county road (formerly U.S. Highways 66 and 91), 0.6 mi northeast of Helendale.	.72	1959-60, 1961-67a, 1968-69, 1976-95	01-05-95	11.31	5.8
10262600	Boom Creek near Barstow, CA	Lat 34°54'20", long 116°56'55", NW 1/4 NE 1/4 sec.2, T.9 N., R.1 W., San Bernardino County, Hydrologic Unit 18090208, at culvert on Interstate Highway 15, 4.3 mi east of Barstow.	.24	1956-66, 1967-73a, 1976-95	03-10-95	9.54	21
Santa Ynez River Basin							
11131700	Santa Rita Creek near Lompoc, CA	Lat 34°38'41", long 120°22'09", in Santa Rita Grant, Santa Barbara County, Hydrologic Unit 18060010, on left bank 2.4 mi upstream from mouth, and 6.5 mi east of Lompoc.	14.1	1976-79, 1981-95	03-10-95	7.87	261
11133700	Purisima Creek near Lompoc, CA	Lat 34°41'34", long 120°25'51" in Purisima Grant, Santa Barbara County, Hydrologic Unit 18060010, on right bank 1.1 mi northeast of junction of Buener Road and Lompoc-Casmalia Road, and 4.0 mi northeast of Lompoc.	4.75	1972-75a 1976-95	03-10-95	2.97	154
11135200	Rodeo-San Pasqual Creek near Lompoc, CA	Lat 34°38'42", long 120°30'57" in Lompoc Grant, Santa Barbara County, Hydrologic Unit 18060010, on left bank 0.1 mi east of Dewolf Avenue at Highway 246, and 3.3 mi west of Lompoc.	7.80	1971-72 1973-78 1980-95	01-10-95	2.49	295

a Operated as a continuous-record station.

b Not determined

* Not previously published

SANTA MARIA RIVER BASIN

345556120274001 LA BREA RECHARGE POND AT SANTA MARIA, CA

LOCATION.--Lat 34°55'56", long 120°27'40", unsurveyed, Santa Barbara County, Hydrologic Unit 18060008, at inflow structure of recharge pond, 2.1 mi southwest of Santa Maria.

DRAINAGE AREA.--Not determined.

PERIOD OF RECORD.--

CHEMICAL DATA: Water years 1985 to current year.

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

DATE	TIME	SPECIFIC CONDUCTANCE (US/CM)	PH WATER WHOLE FIELD (STANDARD UNITS)	TEMPERATURE WATER (DEG C)	BAROMETRIC PRESSURE (MM OF HG)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN, DIS-SOLVED SATURATION	HARDNESS TOTAL (MG/L AS CaCO3)	CALCIUM DIS-SOLVED (MG/L AS Ca)	MAGNESIUM, DIS-SOLVED (MG/L AS Mg)
DEC 14...	1525	654	17.8	12.0	--	--	--	--	--	--
JAN 13...	1230	222	7.5	15.0	--	--	--	--	--	--
FEB 16...	0810	228	7.9	9.0	--	--	--	--	--	--
MAR 09...	1345	308	7.4	16.0	--	--	--	--	--	--
APR 03...	1540	284	7.9	22.5	759	8.1	94	96	23	9.4

DATE	SODIUM, DIS-SOLVED (MG/L AS Na)	SODIUM PERCENT	SODIUM ADSORPTION RATIO	POTASSIUM, DIS-SOLVED (MG/L AS K)	BICARBONATE WATER WH IT TOT IT FIELD (MG/L AS HCO3)	ALKALINITY WAT WH TOT IT FIELD (MG/L AS CaCO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLORIDE, DIS-SOLVED (MG/L AS Cl)	FLUORIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SiO2)
DEC 14...	--	--	--	--	--	--	--	--	--	--
JAN 13...	--	--	--	--	--	--	--	--	--	--
FEB 16...	--	--	--	--	--	--	--	--	--	--
MAR 09...	--	--	--	--	--	--	--	--	--	--
APR 03...	18	28	0.8	2.7	78	64	41	15	<0.10	7.3

DATE	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L)	SOLIDS, SUM OF CONSTITUENTS, DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER AC-FT)	NITROGEN, NITRITE DIS-SOLVED (MG/L AS N)	NITROGEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	NITROGEN, AMMONIA DIS-SOLVED (MG/L AS N)	PHOSPHORUS, ORTHO, DIS-SOLVED (MG/L AS P)	BORON, DIS-SOLVED (UG/L AS B)	IRON, DIS-SOLVED (UG/L AS Fe)	MANGANESE, DIS-SOLVED (UG/L AS Mn)
DEC 14...	436	--	--	--	--	--	--	--	--	--
JAN 13...	138	--	--	--	--	--	--	--	--	--
FEB 16...	152	--	--	--	--	--	--	--	--	--
MAR 09...	194	--	--	--	--	--	--	--	--	--
APR 03...	183	157	0.25	0.020	0.190	0.050	0.180	50	400	25

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

SANTA MARIA RIVER BASIN

345727120375401 GREEN CANYON CREEK AT MAIN STREET, NEAR GUADALUPE, CA

LOCATION.--Lat 34°57'27", long 120°37'54", Santa Barbara County, Hydrologic Unit 18060008, at culvert on West Main Street and 3.6 mi southwest of Guadalupe.

DRAINAGE AREA.--Not determined.

PERIOD OF RECORD.--

CHEMICAL DATA: Water years 1986 to current year.

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

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND	SPECIFIC CONDUCTANCE (US/CM)	PH WATER WHOLE FIELD (STANDARD UNITS)	TEMPERATURE WATER (DEG C)	BAROMETRIC PRESSURE (MM OF HG)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN, DIS-SOLVED (PER-CENT SATURATION)	HARDNESS TOTAL (MG/L AS CaCO3)	CALCIUM DIS-SOLVED (MG/L AS Ca)	MAGNESIUM, DIS-SOLVED (MG/L AS Mg)	SODIUM, DIS-SOLVED (MG/L AS Na)
APR 04...	1000	42	1120	7.8	16.5	763	9.7	100	360	86	35	60
AUG 17...	1415	12	2260	8.1	23.5	758	7.4	88	1100	250	110	140
DATE	SODIUM PERCENT	SODIUM AD-SORPTION RATIO	POTASSIUM, DIS-SOLVED (MG/L AS K)	BICARBONATE WATER WH IT FIELD (MG/L AS HCO3)	ALKALINITY TOT IT FIELD (MG/L AS CaCO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLORIDE, DIS-SOLVED (MG/L AS CL)	FLUORIDE, 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 CONSTITUENTS, DIS-SOLVED (MG/L)	SOLIDS, DIS-SOLVED (TONS PER AC-FT)
APR 04...	26	1	5.7	179	147	260	67	0.40	18	714	660	0.97
AUG 17...	22	2	6.7	286	234	670	170	0.40	30	--	1630	2.22
DATE	NITROGEN, NITRITE DIS-SOLVED (MG/L AS N)	NITROGEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	NITROGEN, AMMONIA DIS-SOLVED (MG/L AS N)	PHOSPHORUS, ORTHO, DIS-SOLVED (MG/L AS P)	BORON, DIS-SOLVED (UG/L AS B)	IRON, DIS-SOLVED (UG/L AS FE)	MANGANESE, DIS-SOLVED (UG/L AS MN)	PCB, TOTAL IN BOTTOM MATERIAL (UG/KG)	PCN, TOTAL IN BOTTOM MATERIAL (UG/KG)	ALACHLOR TOTAL RECOVER (UG/L)	ALDRIN, TOTAL IN BOTTOM MATERIAL (UG/KG)	AME-TRYNE TOTAL (UG/L)
APR 04...	0.100	8.20	0.940	0.470	270	250	44	<1	<1.0	<0.10	<0.1	<0.10
AUG 17...	0.260	25.0	0.120	0.520	290	80	60	<1	<1.0	<0.10	<0.1	<0.10
DATE	ATRAZINE WATER UNFLTRD REC (UG/L)	DEETHYL ATRAZINE, WATER, WHOLE, TOTAL (UG/L)	DE-ISO PROPYL ATRAZIN, WATER, WHOLE, TOTAL (UG/L)	BROMACIL WATER WHLREC (UG/L)	BUTACHLOR WATER WHLREC (UG/L)	BUTYLATE WATER WHLREC (UG/L)	CARBOXIN WATER WHOLE RECOVERABLE (UG/L)	CHLORDANE, TOTAL IN BOTTOM MATERIAL (UG/KG)	CHLORPYRIFOS TOTAL RECOVER (UG/L)	CYANAZINE TOTAL (UG/L)	CYCLOATE WATER WHOLE RECOVERABLE (UG/L)	DDD, TOTAL IN BOTTOM MATERIAL (UG/KG)
APR 04...	<0.1	<0.20	<0.20	0.20	<0.10	<0.10	<0.20	<1.0	0.12	<0.20	<0.10	0.5
AUG 17...	<0.1	<0.20	<0.20	0.40	<0.10	<0.10	<0.20	<1.0	0.12	<0.20	<0.10	1.8

SANTA MARIA RIVER BASIN

345727120375401 GREEN CANYON CREEK AT MAIN STREET, NEAR GUADALUPE, CA--Continued

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

DATE	DDE, TOTAL	DDT, TOTAL	DEF TOTAL (UG/L)	DI- AZINON, TOTAL (UG/L)	DI- ELDRIN, TOTAL	DIPHEN- AMID WATER	DI- SYSTON TOTAL (UG/L)	ENDO- SULFAN, TOTAL	ENDRIN, TOTAL	ETHION, TOTAL (UG/L)	FONOFOS (DY- FONATE)	HEPTA- CHLOR, TOTAL
	IN BOT- TOM MA- TERIAL (UG/KG)	IN BOT- TOM MA- TERIAL (UG/KG)			IN BOT- TOM MA- TERIAL (UG/KG)	WHOLE RECOV- ERABLE (UG/L)		IN BOT- TOM MA- TERIAL (UG/KG)	IN BOT- TOM MA- TERIAL (UG/KG)		WATER WHOLE TOT.REC (UG/L)	IN BOT- TOM MA- TERIAL (UG/KG)
APR 04...	1.8	1.4	<0.01	0.08	<0.4	<0.10	<0.01	<0.1	<0.1	<0.01	<0.01	<0.1
AUG 17...	7.9	5.7	<0.01	0.02	0.3	<0.10	<0.01	<0.1	<1.3	<0.01	<0.01	<0.1
DATE	HEPTA- CHLOR EPOXIDE TOT. IN BOTTOM MATL. (UG/KG)	HEXAZI- NONE WATER WHOLE RECOV- ERABLE (UG/L)	LINDANE TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	MALA- THION, TOTAL (UG/L)	METH- OXY- CHLOR, TOT. IN BOTTOM MATL. (UG/KG)	METHYL PARA- THION, TOTAL (UG/L)	METOLA- CHLOR WATER WHOLE TOT.REC (UG/L)	METRI- BUZIN WATER WHOLE TOT.REC (UG/L)	MIREX, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	PARA- THION, TOTAL (UG/L)	PER- THANE IN BOT- TOM MA- TERIAL (UG/KG)	PHORATE TOTAL (UG/L)
APR 04...	<0.1	0.20	<0.1	<0.01	<0.4	<0.01	<0.20	<0.10	<0.1	<0.01	<1.00	<0.01
AUG 17...	<0.1	<0.20	<0.1	0.01	<0.8	<0.01	<0.20	<0.10	<0.1	<0.01	<1.00	<0.01
DATE	PROME- TONE TOTAL (UG/L)	PROME- TRYNE TOTAL (UG/L)	PROPA- CHLOR WATER WHOLE RECOV. (UG/L)	PRO- PAZINE TOTAL (UG/L)	SIME- TRYNE TOTAL (UG/L)	SIMA- ZINE TOTAL (UG/L)	TER- BACIL WATER WHOLE RECOV. (UG/L)	TOXA- PHENE, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	TRI- FLURA- LIN TOTAL RECOVER (UG/L)	TOTAL TRI- THION (UG/L)	VER- NOLATE WATER WHOLE RECOV. (UG/L)	
APR 04...	<0.20	0.20	<0.10	<0.10	<0.10	0.20	<0.20	<10	<0.10	<0.01	<0.10	
AUG 17...	<0.20	0.50	<0.10	<0.10	<0.10	0.20	<0.20	20	<0.10	<0.01	<0.10	

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CONVERSION FACTORS AND VERTICAL DATUM

Multiply	By	To obtain
<i>Length</i>		
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
<i>Area</i>		
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
<i>Volume</i>		
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
<i>Flow</i>		
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
<i>Mass</i>		
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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