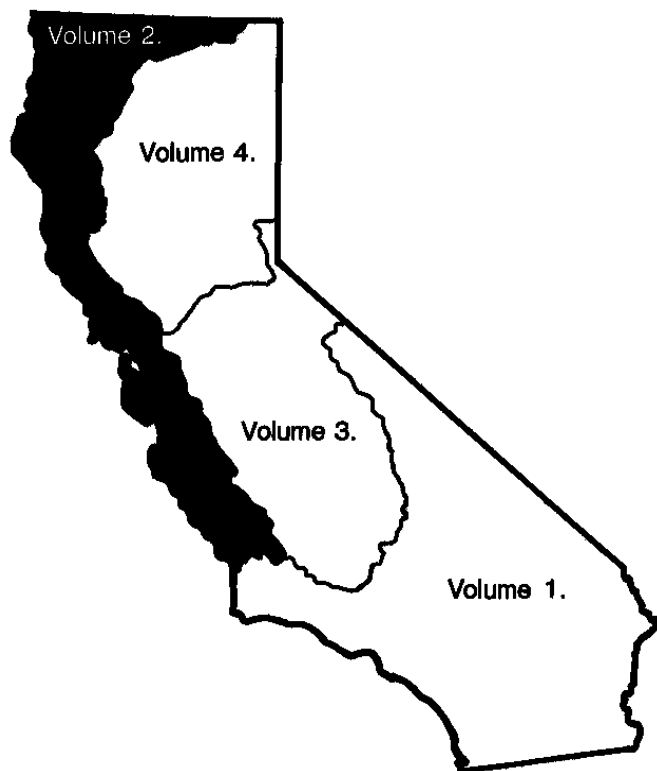


Prepared in cooperation with
California Department of Water Resources and with other agencies

Water Resources Data California Water Year 2004

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



Water-Data Report CA-04-2

Calendar for Water Year 2004

2003

October							November							December						
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S
			1	2	3	4							1		1	2	3	4	5	6
5	6	7	8	9	10	11	2	3	4	5	6	7	8	7	8	9	10	11	12	13
12	13	14	15	16	17	18	9	10	11	12	13	14	15	14	15	16	17	18	19	20
19	20	21	22	23	24	25	16	17	18	19	20	21	22	21	22	23	24	25	26	27
26	27	28	29	30	31		23	24	25	26	27	28	29	28	29	30	31			
							30													

2004

January							February							March						
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S
				1	2	3	1	2	3	4	5	6	7		1	2	3	4	5	6
4	5	6	7	8	9	10	8	9	10	11	12	13	14	7	8	9	10	11	12	13
11	12	13	14	15	16	17	15	16	17	18	19	20	21	14	15	16	17	18	19	20
18	19	20	21	22	23	24	22	23	24	25	26	27	28	21	22	23	24	25	26	27
25	26	27	28	29	30	31	29							28	29	30	31			

April							May							June						
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S
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4	5	6	7	8	9	10	2	3	4	5	6	7	8	6	7	8	9	10	11	12
11	12	13	14	15	16	17	9	10	11	12	13	14	15	13	14	15	16	17	18	19
18	19	20	21	22	23	24	16	17	18	19	20	21	22	20	21	22	23	24	25	26
25	26	27	28	29	30		23	24	25	26	27	28	29	27	28	29	30			
							30	31												

July							August							September						
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S
				1	2	3	1	2	3	4	5	6	7				1	2	3	4
4	5	6	7	8	9	10	8	9	10	11	12	13	14	5	6	7	8	9	10	11
11	12	13	14	15	16	17	15	16	17	18	19	20	21	12	13	14	15	16	17	18
18	19	20	21	22	23	24	22	23	24	25	26	27	28	19	20	21	22	23	24	25
25	26	27	28	29	30	31	29	30	31					26	27	28	29	30		

Water Resources Data California Water Year 2004

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

By M.D. Webster, G.L. Pope, M.F. Friebel, L.A. Freeman, and S.J. Brockner

Water-Data Report CA-04-2

Prepared in cooperation with the
California Department of Water Resources and with other agencies

U.S. Department of the Interior
U.S. Geological Survey

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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, California Water Science Center Chief.

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WATER RESOURCES DATA—CALIFORNIA, WATER YEAR 2004

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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), lake or reservoir elevation, gage heights, or contents; (g) gage height; (p), precipitation; (c), chemical; (b), biological; (t), water temperature; (u), turbidity; and (s), sediment]

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Redwood Creek near Blue Lake (ds)	11481500	353
Redwood Creek at Orick (ds)	11482500	356
KLAMATH RIVER BASIN		
Klamath River above Shovel Creek, near Copco (ct)	11510990	430
Copco Lake near Copco (l)	11511400	361
Iron Gate Reservoir near Hornbrook (l)	11516510	361
Klamath River below Iron Gate Dam (dct)	11516530	362
Shasta River near Edgewood (ct)	11516750	433
Shasta River near Montague (dct)	11517000	366
Shasta River at Highway 3, near Montague (ct)	11517015	436
Shasta River near Yreka (dct)	11517500	371
Klamath River at Walker Bridge near Klamath River (ct)	11517818	439
Scott River near Fort Jones (d)	11519500	376
Klamath River near Seiad Valley (dct)	11520500	378
Indian Creek near Happy Camp (d)	11521500	383
Salmon River at Somes Bar (d)	11522500	385
Klamath River at Orleans (dct)	11523000	387
Trinity River above Coffee Creek, near Trinity Center (d)	11523200	392
Trinity Lake near Lewiston (l)	11525400	394
Judge Francis Carr Powerplant near French Gulch (d)	11525430	395
Trinity River at Lewiston (d)	11525500	396
Deadwood Creek at Lewiston (d)	11525520	428
Rush Creek near Lewiston (d)	11525530	398
Grass Valley Creek at Fawn Lodge, near Lewiston (ds)	11525600	399

WATER RESOURCES DATA—CALIFORNIA, WATER YEAR 2004

SURFACE-WATER AND WATER-QUALITY STATIONS IN DOWNSTREAM
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<u>PACIFIC SLOPE BASINS IN CALIFORNIA—Continued:</u>		
<u>KLAMATH RIVER BASIN—Continued:</u>		
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Grass Valley Creek near Lewiston (s)	11525630	404
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Trinity River at Hoopa (dt)	11530000	414
Klamath River near Klamath (dct)	11530500	418
SMITH RIVER BASIN		
Smith River near Crescent City (d)	11532500	424
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WATER RESOURCES DATA—CALIFORNIA, WATER YEAR 2004

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 NWIS for the period of record shown for each station.

Station No.	Station name	Drainage area (mi ²)	Period of record (Water Year)
11137900	Huasna River near Arroyo Grande	10.3	1959–86
11141150	Arroyo Grande above Phoenix Creek, near Arroyo Grande	13.4	1967–92
11141160	Wittenberg Creek near Arroyo Grande	3.11	1967–75
11141300	Arroyo Grande near Arroyo Grande	68.3	1958–66
11141400	Tar Spring Creek near Arroyo Grande	18.2	1968–79
11141500	Arroyo Grande at Arroyo Grande	102	1940–86
11141600	Los Berros Creek near Nipomo	15.0	1968–78
11142080	Morro Creek at Morro Bay	24.0	1971–78
11142100	Toro Creek near Morro Bay	14.0	1971–78
11142200	Santa Rosa Creek near Cambria	12.5	1957–72
11142240	Perry Creek at Cambria	22.9	1988–89
11142300	San Simeon Creek near Cambria	26.3	1988–89
*11142500	Arroyo de la Cruz near San Simeon (Revised records in WDR CA-04-2)	41.2	1951–79
11142550	San Carpofo Creek near San Simeon	34.6	1978
11142800	Rat Creek near Lucia	.82	1961–63
11143300	Arroyo del Rey at Del Rey Oaks	13.8	1967–78
11143500	Salinas River near Pozo	70.3	1943–83
11144000	Toro Creek near Pozo	9.56	1961–69, 1972–83
11144200	Salsipuedes Creek near Pozo	5.91	1970–83
11144600	Salinas River below Salinas Dam, near Pozo	112	1974–86
11145000	Salinas River above Pilitas Creek, near Santa Margarita	114	1942–75
11145500	Salinas River near Santa Margarita	149	1922, 1932–49
11147000	Jack Creek near Templeton	25.3	1950–78
11147040	Santa Rita Creek Tributary near Templeton	2.95	1967–72
11147070	Santa Rita Creek near Templeton	18.2	1962–94
11147600	Huerhuero Creek near Creston	101	1959–72
11147700	Cholame Creek Tributary near Cholame	9.26	1959–65
11147800	Cholame Creek near Shandon	227	1959–72
11148000	Estrella Creek near Paso Robles	787	1940–41
11148500	Estrella River near Estrella	922	1955–96
11148800	Nacimiento River near Bryson	147	1958–71
11149500	Nacimiento River near San Miguel	349	1940–57
11149650	Sulphur Springs Canyon near Jolon	5.16	1968–69
11149700	San Antonio River at Sam Jones Bridge	204	1958–65
11150000	San Antonio River at Pleyto	277	1929–65
11150800	Cow Creek near San Ardo	4.8	1961–64
11151000	San Lorenzo Creek near King City	210	1940–42
11151500	San Lorenzo Creek at King City	259	1943–45
11151870	Arroyo Seco near Greenfield	113	1961–86
11152540	El Toro Creek near Spreckels	31.9	1962–2001
11152570	Alisal Creek near Salinas	14.2	1971–74
11152900	Cedar Creek near Bell Station	12.8	1962–82
11153000	Pacheco Creek near Dunneville	146	1940–82
11153040	Pacheco Creek at Dunneville	154	1982–85
11153470	Llagas Creek above Chesbro Reservoir, near Morgan Hill	9.63	1972–82
11153500	Llagas Creek near Morgan Hill	19.6	1952–71
11153700	Pajaro River near Gilroy	399	1959–82
11153790	Uvas Creek at Sveadal	2.88	1973–74
11153800	Alec Canyon near Morgan Hill	.91	1970–72
11153900	Uvas Creek above Uvas Reservoir, near Morgan Hill	21	1961–82
11154000	Uvas Creek near Morgan Hill	30.4	1931–57
11154100	Bodfish Creek near Gilroy	7.40	1960–82

WATER RESOURCES DATA—CALIFORNIA, WATER YEAR 2004

DISCONTINUED GAGING STATIONS—CONTINUED

Station No.	Station name	Drainage area (mi ²)	Period of record (Water Year)
11154200	Uvas Creek near Gilroy	71.2	1959–92
11154500	Pajaro River at Sargent	505	1941
11156000	San Benito River below McCoy Creek, near Hernandez	108	1950–53, 1960–63
11156450	Willow Creek Tributary near San Benito	1.24	1964–69
11156700	Pescadero Creek near Paicines	38.3	1959–70
11158500	San Benito River near Hollister	586	1950–83
11158900	Pescadero Creek near Chittenden	10.2	1970–81
11159150	Corralitos Creek near Corralitos	10.6	1958–72
11159400	Green Valley Creek near Corralitos	7.05	1964–67
11159500	Pajaro River at Watsonville	1,272	1912–13, 1972–73
11159690	Aptos Creek near Aptos	10.2	1972–85
11159700	Aptos Creek at Aptos	12.2	1959–72
11159800	West Branch Soquel Creek near Soquel	12.2	1959–72
11159940	Soquel Creek near Soquel	32.0	1969–72
11160020	San Lorenzo River near Boulder Creek	6.17	1968–93
11160060	Bear Creek at Boulder Creek	16.0	1977–93
11160070	Boulder Creek at Boulder Creek	11.3	1976–93
11160200	Newell Creek at Ben Lomond	8.98	1958–60
11160300	Zayante Creek at Zayante	11.1	1957–93
11161500	Branciforte Creek at Santa Cruz	17.3	1940–43, 1952–68
11161570	Majors Creek near Santa Cruz	3.77	1970–76
11161590	Laguna Creek near Davenport	3.07	1970–76
11161800	San Vicente Creek near Davenport	6.07	1970–85
11161900	Scott Creek above Little Creek, near Davenport	25.1	1959–73
11162000	Scott Creek near Davenport	27.3	1937, 1939–41
11162540	Butano Creek near Pescadero	18.3	1962–74
11162600	Purisima Creek near Half Moon Bay	4.83	1959–69
11162720	Colma Creek at South San Francisco	10.8	1964–96
11162722	Spruce Branch at South San Francisco	.70	1965–69
11162900	Sharon Creek near Menlo Park	.38	1959–69
11162800	Redwood Creek at Redwood City	1.82	1959–97
11162940	San Francisquito Creek below Ladera Dam site, near Stanford University	28.5	1962–70
11162950	San Francisquito Creek Tributary near Stanford University	.24	1959–64
11163000	Los Trancos Canal near Stanford University	—	1931–41
11163200	Los Trancos Creek Tributary near Stanford University	.42	1959–66
11163500	Los Trancos Creek at Stanford University	7.46	1931–41
11164000	Lagunita Canal at Stanford University	—	1931–41
11165500	San Francisquito Creek at Palo Alto	40.8	1931–41
11166500	Stevens Creek near Cupertino	18.1	1931–59
11166575	Permanente Creek near Monte Vista	3.86	1984–87
11166578	West Fork Permanente Creek near Monte Vista	2.98	1984–87
11167000	Alamitos Creek near Edenvale	34.5	1930–58
11167660	Ross Creek at San Jose	5.70	1962–70
11167700	Ross Creek below Jarvis Road, at San Jose	7.71	1972–74
11168500	Los Gatos Creek below Los Gatos	42.6	1945–53
11169000	Guadalupe River at San Jose	146	1930–2003
11169800	Coyote Creek near Gilroy	109	1961–82
11170000	Coyote Creek near Madrone	196	1903–12, 1917–87
11170500	Coyote Creek at Coyote	204	1917–23
11171500	Coyote Creek near Edenvale	229	1917–62
11172000	Coyote Creek at San Jose	238	1917
11172100	Upper Penitencia Creek at San Jose	21.5	1962–87
11172365	Zone 6 Line B at Warm Springs Boulevard, at Fremont	0.83	1999–2002
11172500	Laguna Creek at Irvington	12.5	1917–19
11173000	Alameda Creek near Sunol	37.5	1912–30

WATER RESOURCES DATA—CALIFORNIA, WATER YEAR 2004

DISCONTINUED GAGING STATIONS—CONTINUED

Station No.	Station name	Drainage area (mi ²)	Period of record (Water Year)
11174500	Alamo Creek at Dublin	38.7	1915–20
11174600	Alamo Canal near Pleasanton	40.8	1978–83
11175000	Tassajero Creek near Pleasanton	26.8	1915–19, 1922–30
11176000	Arroyo Mocho near Livermore	38.2	1912–30, 1964–2001
11176090	Arroyo Mocho at Livermore	50.8	1984–86
11176100	Arroyo Las Positas above Livermore	7.82	1972–74
11176140	Altamont Creek near Livermore	13.4	1979–80
11176145	Arroyo Las Positas at Livermore	53.3	1980–86
11176150	Arroyo Las Positas near Livermore	64.6	1912–19, 1922, 1924–30
11176180	Arroyo Las Positas at El Charro Road, near Pleasanton	75.0	1978–83
11176200	Arroyo Mocho near Pleasanton	142	1962–86
11176300	Tassajara Creek near Pleasanton	26.8	1915–19, 1922–30, 1979–83
11176600	Arroyo Valle at Pleasanton	171	1958–86
11177000	Arroyo de la Laguna near Pleasanton	405	1912–30, 1970–83, 1988–2003
11179500	Crandal Slough near Centerville	—	1917–18
11180000	Alameda Creek near Sunol	639	1917–19
11180750	Alameda Creek at Union City	653	1959–73
11180810	Palomares Creek near Hayward	9.08	1998–2003
11181004	Castro Valley Creek at Castro Valley	.98	1979–80
11181006	Castro Valley Creek at Knox Street, at Castro Valley	2.20	1978–80, 1989–93
11181300	Peralta Creek at Oakland	1.67	1973
11181330	Temescal Creek above Lake Temescal, at Oakland	1.74	1979–81, 1989–93
11181335	Caldecott Creek at Lake Temescal, at Oakland	.83	1980–81
11181360	San Pablo Strait at Point San Pablo	—	1989–2001
11181390	Wildcat Creek at Vale Road, at Richmond	7.79	1976–96
11181400	Wildcat Creek at Richmond	8.67	1964–75
11182030	Rheem Creek at San Pablo	1.49	1961–90
11182100	Pinole Creek at Pinole	10.0	1939–70, 1972–77
11182400	Arroyo del Hambre at Martinez	15.1	1965–82
11182800	San Ramon Creek near Walnut Creek	47.9	1973–92
11183000	San Ramon Creek at Walnut Creek	50.8	1953–73
11183500	Walnut Creek at Walnut Creek	79.2	1953–68
11183600	Walnut Creek at Concord	85.2	1968–92
11183700	Little Pine Creek near Alamo	1.22	1975–89
11184000	Galindo Creek at Concord	7.74	1955–58
11184500	Pine Creek at Concord	28.3	1953–60
11455900	Napa River at Calistoga	21.9	1976–83
11455950	Sulphur Creek near St. Helena	4.50	1966–67
11456500	Conn Creek near Oakville	55.4	1930–59, 1971–75
11457000	Dry Creek near Napa	17.4	1951–66
11457500	Dry Creek near Yountville	18.7	1941
11458100	Milliken Creek near Napa	17.3	1971–83
11458200	Redwood Creek near Napa	9.79	1958–73
11458300	Napa Creek at Napa	14.9	1971–83
11458350	Tuluca Creek at Napa	12.6	1972–83
11459000	Petaluma River at Petaluma	30.9	1949–63
11459300	San Antonio Creek near Petaluma	28.9	1975–81
*11459800	San Rafael Creek at San Rafael (Revised records in WDR CA-91-2)	1.24	1972–76
11459830	Irwin Creek at San Rafael	—	1972–76
11460000	Corte Madera Creek at Ross	18.1	1951–93
11460100	Arroyo Corte Madera del Presidio at Mill Valley	4.69	1966–73, 1975–86

WATER RESOURCES DATA—CALIFORNIA, WATER YEAR 2004

DISCONTINUED GAGING STATIONS—CONTINUED

Station No.	Station name	Drainage area (mi ²)	Period of record (Water Year)
11460160	Morses Creek at Bolinas	.70	1967–69
11460500	Nicasio Creek at Point Reyes Station	36.6	1954–60
11460800	Walker Creek near Tomales	40.1	1959–84
11460920	Salmon Creek at Bodega	15.7	1962–75
11460940	Russian River near Redwood Valley	14.1	1963–68
11461400	East Fork Russian River Tributary near Potter Valley	.15	1959–61
11462700	Feliz Creek near Hopland	31.3	1958–66
11463160	Big Sulphur Creek near Middletown	2.89	1978–79
11463500	Russian River at Geyserville	655	1911–13
11463900	Maacama Creek near Kellogg	43.4	1961–81
11463940	Franz Creek near Kellogg	15.7	1964–68
11464050	Dry Creek Tributary near Hopland	1.19	1968–69
11464400	Dry Creek near Yorkville	56.0	1974–83
11464500	Dry Creek near Cloverdale	87.8	1941–80
11464860	Warm Springs Creek near Asti	12.2	1973–83
11465050	Dutcher Creek near Asti	2.24	1973
11465150	Pena Creek near Geyserville	22.3	1979–90
11465800	Santa Rosa Creek near Santa Rosa	12.5	1959–70
11467200	Austin Creek near Cazadero	63.1	1959–66
11467500	South Fork Gualala River near Annapolis	161	1951–71, 1991–94
11467510	South Fork Gualala River near the Sea Ranch	161	1991–92
11467553	North Fork Gualala River above South Fork Gualala River, near Gualala	47.5	2001, 2003
11467585	Wheatfield Fork Gualala River above South Fork Gualala River, near Annapolis	111	2001–02
11467600	Garcia River near Point Arena	98.5	1962–83
11467800	Rancheria Creek near Boonville	65.6	1959–68
11467850	Soda Creek Tributary near Boonville	1.53	1965–68
11468010	Albion River near Comptche	14.4	1961–69, 2001, 2003
11468070	South Fork Big River near Comptche	36.2	1960–1971, 2001
11468150	Warner Creek near Fort Bragg	.61	1969
11468540	Pudding Creek near Fort Bragg	12.5	1964–71
11468850	Dunn Creek near Rockport	1.88	1961–64
11468990	Honeydew Creek near Honeydew	14.9	1973–77
11469500	North Fork Mattole River at Petrolia	37.6	1951–57
11469800	Cold Creek Tributary near Elk Creek	.81	1970
11471800	Tomki Creek near Willits	43.4	1963–70
11472000	Eel River at Hearst	466	1911–13
11472150	Eel River near Dos Rios	528	1967–94
11472200	Outlet Creek near Longvale	161	1957–94
11472500	Eel River above Dos Rios	705	1951–65
11473000	Middle Fork Eel River below Black Butte River, near Covelo	367	1952–67
11473100	Williams Creek near Covelo	30.4	1962–69
11473500	Middle Fork Eel River near Covelo	406	1912–18, 1920–22
11473530	Mill Creek below Alder Creek, near Covelo	17.1	1962–65
11473600	Short Creek near Covelo	15.2	1959–69
11473700	Mill Creek near Covelo	95.6	1956–71
11473800	Elk Creek near Hearst	84.1	1964–73
11473980	Goforth Creek at Dos Rios	3.83	1966–68
11474000	Eel River below Dos Rios	1,484	1912–13, 1952–66
11474400	Hulls Creek near Covelo	25.9	1962–64
11475500	South Fork Eel River near Branscomb	43.9	1947–70
11475700	Tenmile Creek near Laytonville	50.3	1958–74
11475940	East Branch South Fork Eel River near Garberville	74.3	1966–72

WATER RESOURCES DATA—CALIFORNIA, WATER YEAR 2004

DISCONTINUED GAGING STATIONS—CONTINUED

Station No.	Station name	Drainage area (mi ²)	Period of record (Water Year)
11476000	South Fork Eel River at Garberville	468	1912–13, 1940
11476700	Larabee Creek near Holmes	84.1	1960–65
11477475	Mill Creek below Sulphur Creek, at Dinsmore	3.11	1990–95
11477500	Van Duzen River near Dinsmore	85.2	1954–58, 1964–74
11477700	Little Van Duzen River near Bridgeville	36.2	1958–67
11478000	Van Duzen River at Bridgeville	202	1912–13, 1940–51
11478400	Van Duzen River Tributary near Bridgeville	.71	1969
11479000	Yager Creek near Carlotta	127	1954–55, 1957–60, 1966–72
11479500	Yager Creek at Carlotta	134	1912–13
11479700	Elk River near Falk	44.2	1958–67
11480000	Jacoby Creek near Freshwater	5.80	1955–64
11480500	Mad River near Forest Glen	143	1953–94
11480750	Mad River near Kneeland	351	1966–74
11480800	North Fork Mad River near Korbel	40.4	1958–64, 1973–74
11482000	Redwood Creek near Korbel	83.0	1912–13
11482110	Lacks Creek near Orick	16.9	1980–91
11482120	Redwood Creek above Panther Creek, near Orick	150	1981–89
11482125	Panther Creek near Orick	6.07	1979–91
11482130	Coyote Creek near Orick	7.78	1980–82, 1984–89
11482200	Redwood Creek at South Park Boundary, near Orick	185	1971–81
11482468	Little Lost Man Creek at Site No. 2, near Orick	3.46	1974–82, 1985–89
11488700	Dry Lake Tributary at Perez	1.74	1963–66
11489500	Antelope Creek near Tennant	18.6	1953–79
11490000	Antelope Creek near Macdoel	30.0	1922
11490500	Butte Creek near Macdoel	178	1922, 1952–60
11512000	Fall Creek at Copco	14.6	1933–59
11512500	Klamath River below Fall Creek, near Copco	4,317	1924–61
11516600	Cottonwood Creek at Hornbrook	89.8	1965–71
11516900	Little Shasta River near Montague	48.2	1958–78
11517800	Beaver Creek near Klamath River	106	1960–65
11517900	East Fork Scott River below Houston Creek, near Callahan	19.7	1970–73
11517950	East Fork Scott River above Kangaroo Creek	49.5	1970–73
11518050	East Fork Scott River at Callahan	110	1959–74
11518310	Cedar Gulch	.99	1961–73
11530020	Supply Creek at Hoopa	15.8	1982–85

DISCONTINUED LAKES AND RESERVOIRS

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

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

WATER RESOURCES DATA—CALIFORNIA, WATER YEAR 2004

DISCONTINUED CONTINUOUS WATER-QUALITY STATIONS

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

Station No.	Station name	Drainage area (mi ²)	Type of record	Period of record (Water Year)
11141150	Arroyo Grande above Phoenix Creek, near Arroyo Grande	13.4	WQ,S,T	1967–73, 1977, 1990
11141280	Lopez Creek near Arroyo Grande	20.9	WQ,S,T	1968–72, 1977
11143000	Big Sur River near Big Sur	46.5	WQ,T	1966–79
11143250	Carmel River near Carmel	247	WQ,S	1954–66, 1990–97
11147040	Santa Rita Creek Tributary near Templeton	2.95	T	1968–72
11147070	Santa Rita Creek near Templeton	18.2	S	1968–72
11148800	Nacimiento River near Bryson	147	S,T	1959, 1961–71
11149400	Nacimiento River below Nacimiento Dam, near Bradley	329	WQ	1963–66
11149700	San Antonio River at Sam Jones Bridge	204	S,T	1959, 1961–62, 1964–65
11150000	San Antonio River at Pleyto	277	S,T	1962, 1965
11151870	Arroyo Seco near Greenfield	113	S	1963–75, 1978–84
11152500	Salinas River near Spreckels	4,156	WQ,B,C, S,T	1950–54, 1958–79
11152540	El Toro Creek near Spreckles	31.9	S	1986, 1990
11153470	Llagas Creek above Chesbro Reservoir, near Morgan Hill	9.63	T	1972–78
11153555	Llagas Creek at San Martin	28.2	WQ,S	1980–87, 1989–91
11153900	Uvas Creek above Uvas Reservoir, near Morgan Hill	21	S,T	1966–76
11159000	Pajaro River at Chittenden	1,186	WQ,B,C, S,T	1952–92
11159200	Corralitos Creek at Freedom	27.8	S	1976–77, 1980–81
11160000	Soquel Creek at Soquel	40.2	WQ,S,T	1952–79, 1990–93
11160500	San Lorenzo River at Big Trees	106	WQ,S,T	1906–07, 1952–82
11162500	Pescadero Creek near Pescadero	45.9	WQ,S,T	1965–80, 1986, 1990–93
11162690	San Francisco Bay at Presidio Military Reservation	—	WQ,T	1990–2003
11162700	San Francisco Bay at Pier 24, at San Francisco	—	WQ,T	1990–2002
11162720	Colma Creek at South San Francisco	10.8	S	1966–76
11162722	Spruce Branch at South San Francisco	.70	S	1965–69
11166575	Permanente Creek near Monte Vista	3.86	S,T	1984–87
11166578	West Fork Permanente Creek near Monte Vista	2.98	S,T	1985–86
11166710	Arroyo Calero above Calero Reservoir, near New Almaden	3.14	WQ	1986–90
11166900	Alamitos Creek near New Almaden	31.8	WQ,S	1985–91
11167500	Guadalupe Creek at Guadalupe	12.8	WQ,S	1980–91
11168000	Los Gatos Creek at Los Gatos	39.0	WQ	1952–66, 1980–87, 1989–91
11168800	Los Gatos Creek at Lincoln Avenue, at San Jose	48.4	WQ	1980–87, 1989–91
11169580	Calabazas Creek Tributary No. 1 at Mt. Eden Road	.37	T	1973–77
11169600	Prospect Creek above Saratoga Golf Course, near Saratoga	.27	T	1973–75
11169616	Calabazas Creek at Rainbow Drive, near Cupertino	3.98	T	1974–77
11169800	Coyote Creek near Gilroy	109	S,T	1965–76
11169970	Coyote Creek below Leroy Anderson Dam, near Madrone	195	WQ,S	1980–88, 1990–91
11171500	Coyote Creek near Edenvale	229	WQ,S	1979–88, 1990–91
11172300	Agua Fria Creek at Warm Springs Road, at Fremont	1.79	S	1999–2002
11172360	Toroges Creek at Warm Springs Road, at Fremont	1.23	S	1999–2002
11172365	Zone 6 Line B at Warm Springs Boulevard, at Fremont	0.83	S,T	1999–2002
11173575	Alameda Creek below Welch Creek, near Sunol	145	S,T	2000–03
11174000	San Antonio Creek near Sunol	37	S	2000–01
11174060	Alameda Creek at Highway 680, near Sunol	191	S	2000–02
11174600	Alamo Canal near Pleasanton	40.8	C	1979–83
11176000	Arroyo Mocho near Livermore	38.2	C	1979–83

WATER RESOURCES DATA—CALIFORNIA, WATER YEAR 2004

DISCONTINUED CONTINUOUS WATER-QUALITY STATIONS—CONTINUED

Station No.	Station name	Drainage area (mi ²)	Type of record	Period of record (Water Year)
11176140	Altamont Creek near Livermore	13.4	C	1979–80
11176145	Arroyo Las Positas at Livermore	53.3	C	1980–83
11176180	Arroyo Las Positas at El Charro Road, near Pleasanton	75.0	C	1979–83
11176200	Arroyo Mocho near Pleasanton	142	C	1980–83
11176300	Tassajara Creek near Pleasanton	26.8	C	1979–83
11176325	Arroyo Mocho at Hopyard Road, at Pleasanton	170	S	2000–02
11176350	Arroyo de la Laguna above Arroyo Valle, near Pleasanton	224	S,T	1975–79
11176400	Arroyo Valle below Lang Canyon, near Livermore	130	S,T	1974–79
11176500	Arroyo Valle near Livermore	147	S,T	1960, 1961, 1963–79
11176600	Arroyo Valle at Pleasanton	171	WQ,C,S,T	1958–85, 2000–02
11176710	Arroyo de la Laguna at Bernal Avenue, at Pleasanton	396	S	2000–02
11177000	Arroyo de la Laguna near Pleasanton	405	C,S,T	1979–83, 2000–03
11177200	Vallecitos Creek at Sunol	7.48	C	1975–86
11180825	San Lorenzo Creek above Don Castro Reservoir, near Castro Valley	18.0	S,T	1981–1994, 1998–2003
11180900	Crow Creek near Hayward	10.5	S	2000–03
11180940	Cull Creek Tributary No. 4 above Cull Creek Reservoir, near Castro Valley	.45	S	1981, 1986, 1989, 1992
11180960	Cull Creek above Cull Creek reservoir, near Castro Valley	5.79	S,T	1979–2003
11180965	Cull Creek below Cull Creek Dam, near Castro Valley	6.37	S,T	1979
11181040	San Lorenzo Creek at San Lorenzo	44.6	S,T	1989–93
11181330	Temescal Creek above Lake Temescal, at Oakland	1.74	WQ,S	1979–81
11181390	Wildcat Creek at Vale Road, at Richmond	7.79	S	1978–80
11456000	Napa River near St. Helena	81.4	S,T	1958–79
11458000	Napa River near Napa	218	WQ,B,C S,T	1971, 1973–93
11460000	Corte Madera Creek at Ross	18.1	S	1978–80
11460015	Corte Madera Creek at College Avenue, at Kentfield	18.2	S	1988–89
11460110	Gerbode Valley Creek near Sausalito	3.29	WQ,S	1986–88
11460120	Rodeo Lagoon at Ft. Cronkhite, near Sausalito	4.07	WQ	1986–88
11460130	Tennessee Valley Creek near Tamalpais Valley	1.91	WQ,S	1986–88
11460140	Redwood Creek below Muir Woods, near Mill Valley	4.11	WQ,S	1986–88
11460152	Redwood Creek at Muir Beach, near Tamalpais Valley	7.29	WQ,S	1986–88
11460154	Green Gulch at Muir Beach, near Tamalpais Valley	1.51	WQ,S	1986–88
11460156	Webb Creek near Stinson Beach	1.12	WQ,S	1986–88
11460158	Table Rock Creek at Stinson Beach	1.34	WQ,S	1986–88
11460170	Pine Creek at Bolinas	7.83	S,T	1967, 1969–70
11460600	Lagunitas Creek near Point Reyes	81.7	T	1989–90
11460920	Salmon Creek at Bodega	15.7	S,T	1964–75
11461000	Russian River near Ukiah	100	WQ,B,S,T	1964–68, 1977–79, 1991–92, 1994–97
11461500	East Fork Russian River near Calpella	92.2	S	1965–68
11462000	East Fork Russian River near Ukiah	105	WQ,B,S,T	1953–55, 1964–68, 1973–94
11463000	Russian River near Cloverdale	503	S,T	1964–68, 1994–96
11463160	Big Sulphur Creek near Middletown	2.89	S,T	1978–79
11463200	Big Sulphur Creek near Cloverdale	85.5	S	1967–68
11464000	Russian River near Healdsburg	793	WQ,T	1951–2002
11464500	Dry Creek near Cloverdale	87.8	T	1965–79
11465000	Dry Creek below Warm Springs Dam, near Geyserville	131	T	1981–94
11465150	Pena Creek near Geyserville	22.3	S	1979–86
11465200	Dry Creek near Geyserville	162	WQ,S,T	1964–87
11467295	South Fork Gualala River above Wheatfield Fork, near Annapolis	48.2	T	2001

WATER RESOURCES DATA—CALIFORNIA, WATER YEAR 2004

DISCONTINUED CONTINUOUS WATER-QUALITY STATIONS—CONTINUED

Station No.	Station name	Drainage area (mi ²)	Type of record	Period of record (Water Year)
11467553	North Fork Gualala River above South Fork Gualala River, near Gualala	47.5	T	2001
11467585	Wheatfield Fork Gualala River above South Fork Gualala River, near Annapolis	111	T	2001
11467590	Garcia River at Eureka Hill Road, near Point Arena	83.2	S	1992–97
11467600	Garcia River near Point Arena	98.5	T	1964–78
11468000	Navarro River near Navarro	303	T,S	1966–79, 1999–2003
11468010	Albion River near Comptche	14.4	T	2001
11468092	Big River below Two Log Creek, near Comptche	88.7	T	2001
11468070	South Fork Big River near Comptche	36.2	T	2001
11468600	Middle Fork Ten Mile River near Fort Bragg	32.9	T	1965–73
11469000	Mattole River near Petrolia	245	T,S	2001–03
11471000	Potter Valley Powerhouse Intake near Potter Valley	—	S	1964–68
11472150	Eel River near Dos Rios	528	S	1967–77
11472200	Outlet Creek near Longvale	161	S	1967–70
11472500	Eel River above Dos Rios	705	T,S	1959, 1962–82
11472800	Middle Fork Eel River above Black Butte River, near Covelo	204	T,S	1966, 1969–70
11473000	Middle Fork Eel River below Black Butte River, near Covelo	367	T,S	1961–63, 1968–79
11473800	Elk Creek near Hearst	84.1	T	1965–73
11473900	Middle Fork Eel River near Dos Rios	745	C,S	1967–69
11474700	Chamise Creek near Island Mountain	22.6	T,S	1973–75
11475000	Eel River at Fort Seward	2,107	S	1966–76
11475100	Dobbyn Creek near Fort Seward	61.4	T,S	1973–76
11475500	South Fork Eel River near Branscomb	43.9	T,S	1961–70
11475560	Elder Creek near Branscomb	6.50	WQ,T,S	1968–96
11476500	South Fork Eel River near Miranda	537	T,S	1960–83
11476600	Bull Creek near Weott	28.1	S	1960–80
11477000	Eel River at Scotia	3,113	WQ,B,C T,S	1952–95, 1998
11477500	Van Duzen River near Dinsmore	85.2	T	1966–74
11477700	Little Van Duzen River near Bridgeville	36.2	T	1961–65
11478500	Van Duzen River near Bridgeville	222	T,S	1956–65, 1998
11480700	Maple Creek near Blue Lake	12.1	T	1969
11480750	Mad River near Kneeland	351	T	1966–74
11480780	Mad River near Blue Lake	393	T	1973–76
11481000	Mad River near Arcata	485	S	1960–74
11482110	Lacks Creek near Orick	16.9	C,S	1975–76, 1978–91
11482120	Redwood Creek above Panther Creek, near Orick	150	S	1988–89
11482125	Panther Creek near Orick	6.07	T,S	1979–91
11482130	Coyote Creek near Orick	7.78	T,S	1980
11482200	Redwood Creek at South Park Boundary, near Orick	185	T	1974–81
11482468	Little Lost Man Creek at Site No. 2, near Orick	3.46	WQ,S	1974–76, 1978–82, 1985–89
11488495	Lost River near Hatfield	—	WQ,C, T	2002
11488510	Tulelake Canal at Sheepy Ridge Pumping Station, near Hatfield	—	WQ,C,T	2002
11516530	Klamath River below Iron Gate Dam	4,630	P,WQ,C,T	1962–80, 2000–04
11516600	Cottonwood Creek at Hornbrook	89.8	T	1965–71
11517500	Shasta River near Yreka	793	WQ,C,T,S	1959–79, 2002–04
11519500	Scott River near Fort Jones	653	WQ,S	1955–56, 1959–79
11520500	Klamath River near Seiad Valley	6,940	WQ,C,T,S	1955–79, 2000–04
11523000	Klamath River at Orleans	8,475	WQ,C,T,S	1967–79, 2002–04
11525500	Trinity River at Lewiston	719	WQ,T,S	1951–83
11525600	Grass Valley Creek at Fawn Lodge, near Lewiston	30.8	S	1975–2002
11525655	Trinity River below Limekiln Gulch, near Douglas City	812	T,S	1981–91

WATER RESOURCES DATA—CALIFORNIA, WATER YEAR 2004

DISCONTINUED CONTINUOUS WATER-QUALITY STATIONS—CONTINUED

Station No.	Station name	Drainage area (mi ²)	Type of record	Period of record (Water Year)
11526500	North Fork Trinity River at Helena	151	T,S	1963
11527000	Trinity River near Burnt Ranch	1,439	T	1962–67, 1969–83
11528200	South Fork Trinity River near Hyampom	342	T	1961–65
11528500	Hayfork Creek near Hyampom	378	T	1961–74
11528700	South Fork Trinity River below Hyampom	764	S	1967–70, 1981–82
11529000	South Fork Trinity River near Salyer	898	T,S	1959–67, 1981–82
11530020	Supply Creek at Hoopa	15.8	T,S	1982–85
11530300	Blue Creek near Klamath	120	T	1966–78
11530500	Klamath River near Klamath	12,100	WQ,B,C, T,S	1951–95, 2002–04
11532000	South Fork Smith River near Crescent City	291	T,S	1978–79
11532500	Smith River near Crescent City	614	WQ,C,B, T,S	1952–93
11532620	Mill Creek near Crescent City	28.6	T	1974–80
353339121053900	Santa Rosa Creek on Highway 1 Bridge, at Cambria	46.6	WQ	1988–89
353406121061100	Santa Rosa Creek at Windson Boulevard, near Cambria	47.1	WQ	1988–89
353635121043101	San Simeon Creek at Palmer Flats, near Cambria	23.1	WQ	1988–89
371057121472501	Calero Reservoir at dam, near New Almaden	6.93	WQ,B	1978–79, 1984–91
374906122281801	San Francisco Bay at Golden Gate Bridge	—	C,T	1997
375658122324000	Corte Madera Creek near College Avenue, at Kentfield, at Cross Section 0	—	S	1988–89
375701122324200	Corte Madera Creek near College Avenue, at Kentfield, at Cross Section 1	—	S	1988–89
375704122324200	Corte Madera Creek near College Avenue, at Kentfield, at Cross Section 2	—	S	1988–89
375710122324000	Corte Madera Creek near College Avenue, at Kentfield, at Cross Section 3	—	S	1990
375711122324600	Corte Madera Creek near College Avenue, at Kentfield, at Cross Section 4	—	S	1988–89
375712122325100	Corte Madera Creek near College Avenue, at Kentfield, at Cross Section 5	—	S	1988–89
375712122325200	Corte Madera Creek near College Avenue, at Kentfield, at Cross Section 6	—	S	1988–89

* Revision published after station became inactive.

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

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WATER RESOURCES DATA—CALIFORNIA, WATER YEAR 2004 VOLUME 2—PACIFIC SLOPE BASINS FROM ARROYO GRANDE TO OREGON STATE LINE EXCEPT CENTRAL VALLEY

By M.D. Webster, G.L. Pope, M.F. Friebel, L.A. Freeman, and S.J. Brockner

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 134 streamflow-gaging stations and 2 partial-record stations; (2) stage and content records for 8 lakes and reservoirs; (3) gage-height records for 8 stations; and (4) water-quality records for 36 streamflow-gaging stations and 4 water-quality partial-record stations. Records included for stream stages are only a small fraction of those obtained during the water year.

The series of annual reports for California began with the 1961 water year with a report that contained only data relating to the quantities of surface water. For the 1964 water year, a similar report was introduced that contained only data relating to water quality. Beginning with the 1975 water year, the report format changed to include data on quantities of surface water, quality of surface and ground water, and ground-water levels. From the 1985 through the 1993 water years, 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 principal cities of the United States, or if not out of print, they may be purchased from U.S. Geological Survey, Information Services, Box 25286, Denver Federal Center, Denver, CO 80225-0046.

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-04-1." 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 on microfiche, by the National Technical Information Service, 5285 Port Royal Road, Springfield, VA 22161. For further ordering information, the Customer Inquiries telephone number is (703) 487-4650, between 8:30 a.m. and 5:30 p.m. Eastern Standard Time.

Additional information 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 at (916) 278-3100.

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COOPERATION

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

- Alameda County Flood Control and Water Conservation District, Robert Hale, Water Resources Manager.
 - Alameda County Flood Control and Water Conservation District, Zone 7, Dale Myers, General Manager.
 - Alameda County Water District, Paul Piraino, General Manager.
 - Brentwood, city of, Paul R. Eldredge, Associate Civil Engineer.
 - California Department of Parks and Recreation, Rusty Areias, Director.
 - California Department of Water Resources, Thomas M. Hannigan, Director.
 - California State Water Resources Control Board, Winston H. Hickox, Secretary for Environmental Protection.
 - Contra Costa County Flood Control and Water Conservation District, R. Mitch Avalon, Deputy Director.
 - Humboldt Bay Municipal Water District, Carol Rische, General Manager.
 - Karuk Tribe of California, Alvis Johnson, Tribal Chairman.
 - Marin Municipal Water District, Pamela J. Nicolai, General Manager.
 - Monterey County Water Resources Agency, Mr. Curtis V. Weeks, General Manager.
 - Monterey Peninsula Water Management District, David A. Berger, General Manager.
 - North Marin Water District, Chris DeGabriele, General Manager.
 - San Benito County Water District, John S. Gregg, District Manager/Engineer.
 - San Francisco Water Department, Patricia E. Martel, General Manager.
 - San Jose, city of, Carl W. Mosher, Director, Environmental Services Department.
 - San Luis Obispo County Flood Control and Water Conservation District, Noel King, Director.
 - San Mateo County Department of Public Works, Neil R. Cullen, Director.
 - Santa Clara Valley Water District, Stanley M. Williams, General Manager.
 - Santa Cruz, city of, Water Department, Terry Tompkins, Deputy Director/Operations.
 - Santa Cruz County Flood Control and Water Conservation District, Public Works Department, Bruce Laclergue, Water Resources Manager.
 - Santa Maria Valley Water Conservation District, Debi Askew, Secretary.
 - Santa Rosa, city of, Lynn M. Small, Environmental Services Superintendent.
 - Scotts Valley Water District, Jill Duerig, General Manager.
 - Sonoma County Permit and Resource Management Department, Kay Randolph-Pollard, Administrative Services Officer.
 - Sonoma County Water Agency, Randy O. Poole, General Manager.
 - Soquel Creek Water District, Laura D. Brown, General Manager.
 - South County Regional Waste Water Authority, Richard Smelser, City Engineer.
- Assistance in the form of funds or services was given by the Forest Service, U.S. Department of Agriculture; Corps of Engineers, U.S. Army; Bureau of Land Management, Bureau of Reclamation, and National Park Service, U.S. Department of the Interior.
- The following organizations aided in collecting records: Pacific Gas and Electric Company, PacifiCorp, STS Hydropower, and North Coast Hydroelectric.

DOWNSTREAM ORDER AND STATION NUMBER

Since October 1, 1950, hydrologic-station records in USGS reports have been listed in order of 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 entering between two main-stream stations is listed between those stations. A similar order is followed in listing stations on first rank, second rank, and other ranks of tributaries. The rank of any tributary on which a station is located with respect to the stream to which it is immediately tributary is indicated by an

indentation in that list of stations in the front of this report. Each indentation represents one rank. This downstream order and system of indentation indicates which stations are on tributaries between any two stations and the rank of the tributary on which each station is located.

As an added means of identification, each hydrologic station and partial-record station has been assigned a station number. These station numbers are in the same downstream order used in this report. In assigning a station number, 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 composed of both types of stations. Gaps are consecutive. The complete 8-digit (or 10-digit) number for each station such as 09004100, which appears just to the left of the station name, includes a 2-digit part number "09" plus the 6-digit (or 8-digit) downstream order number "004100." In areas of high station density, an additional two digits may be added to the station identification number to yield a 10-digit number. The stations are numbered in downstream order as described above between stations of consecutive 8-digit numbers.

NUMBERING SYSTEM FOR WELLS AND MISCELLANEOUS SITES

The USGS well and miscellaneous site-numbering system is based on the grid system of latitude and longitude. The system provides the geographic location of the well or miscellaneous site and a unique number for each site. The number consists of 15 digits. The first 6 digits denote the degrees, minutes, and seconds of latitude, and the next 7 digits denote degrees, minutes, and seconds of longitude; the last 2 digits are a sequential number for wells within a 1-second grid. In the event that the latitude-longitude coordinates for a well and miscellaneous site are the same, a sequential number such as "01," "02," and so forth, would be assigned as one would for wells (see fig. 1). The 8-digit, downstream order station numbers are not assigned to wells and miscellaneous sites where only random water-quality samples or discharge measurements are taken.

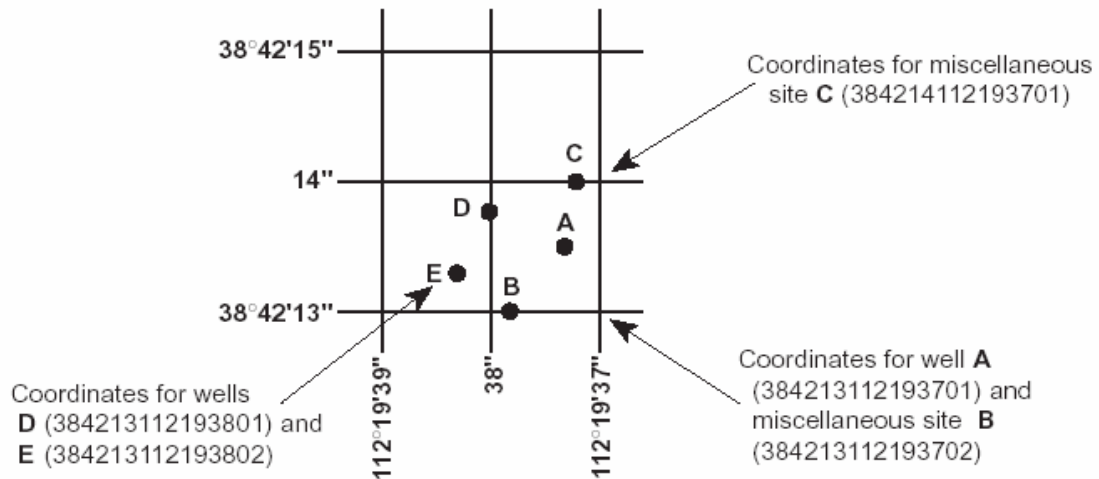


Figure 1. System for numbering wells and miscellaneous sites (latitude and longitude).

SPECIAL NETWORKS AND PROGRAMS

Hydrologic Benchmark Network is a network of 61 sites in small drainage basins in 39 States that was established in 1963 to provide consistent streamflow data representative of undeveloped watersheds nationwide, and from which data could be analyzed on a continuing basis for use in comparison and contrast with conditions observed in basins more obviously affected by human activities. At selected sites, water-quality information is being gathered on major ions and nutrients, primarily to assess the effects of acid deposition on stream chemistry. Additional information on the Hydrologic Benchmark Program may be accessed from <http://water.usgs.gov/hbn/>.

National Stream-Quality Accounting Network (NASQAN) is a network of sites used to monitor the water quality of large rivers within the Nation's largest river basins. From 1995 through 1999, a network of approximately 40 stations was operated in the Mississippi, Columbia, Colorado, and Rio Grande River basins. For the period 2000 through 2004, sampling was reduced to a few index stations on the Colorado and Columbia Rivers so that a network

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of 5 stations could be implemented on the Yukon River. Samples are collected with sufficient frequency that the flux of a wide range of constituents can be estimated. The objective of NASQAN 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 (NAWQA) Program; (3) to characterize processes unique to large-river systems such as storage and re-mobilization 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. Additional information about the NASQAN Program may be accessed from <http://water.usgs.gov/nasqan/>.

The National Atmospheric Deposition Program/National Trends Network (NADP/NTN) is a network of monitoring sites that provides continuous measurement and assessment of the chemical constituents in precipitation throughout the United States. As the lead Federal agency, the USGS works together with over 100 organizations to provide a long-term, spatial and temporal record of atmospheric deposition generated from this network of 250 precipitation-chemistry monitoring sites. The USGS supports 74 of these 250 sites. This long-term, nationally consistent monitoring program, coupled with ecosystem research, provides critical information toward a national scorecard to evaluate the effectiveness of ongoing and future regulations intended to reduce atmospheric emissions and subsequent impacts to the Nation's land and water resources. Reports and other information on the NADP/NTN Program, as well as data from the individual sites, may be accessed from <http://bqs.usgs.gov/acidrain/>.

The USGS National Water-Quality Assessment (NAWQA) Program is a long-term program with goals to describe the status and trends of water-quality conditions for a large, representative part of the Nation's ground- and surface-water resources; to provide an improved understanding of the primary natural and human factors affecting these observed conditions and trends; and to provide information that supports development and evaluation of management, regulatory, and monitoring decisions by other agencies.

Assessment activities are being conducted in 42 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 is 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 water-resources managers to use in making decisions and a foundation for aggregation and comparison of findings to address water-quality issues of regional and national interest.

Communication and coordination between USGS personnel and other local, State, and Federal interests are critical components of the NAWQA Program. Each study unit has a local liaison committee consisting of representatives from key Federal, State, and local water-resources agencies, Indian nations, and universities in the study unit. Liaison committees typically meet semiannually to discuss their information needs, monitoring plans and progress, desired information products, and opportunities to collaborate efforts among the agencies. Additional information about the NAWQA Program may be accessed from <http://water.usgs.gov/nawqa/>.

The USGS National Streamflow Information Program (NSIP) is a long-term program with goals to provide framework streamflow data across the Nation. Included in the program are creation of a permanent Federally funded streamflow network, research on the nature of streamflow, regional assessments of streamflow data and databases, and upgrades in the streamflow information delivery systems. Additional information about NSIP may be accessed from <http://water.usgs.gov/nsip/>.

EXPLANATION OF STAGE- AND WATER-DISCHARGE RECORDS

Data Collection and Computation

The base data collected at gaging stations consist of records of stage and measurements of discharge of streams or canals, and stage, surface area, and volume of lakes or reservoirs. In addition, observations of factors affecting the stage-discharge relation or the stage-capacity relation, weather records, and other information are used to supplement base data in determining the daily flow or volume of water in storage. Records of stage are obtained from a water-stage recorder that is either downloaded electronically in the field to a laptop computer or similar device or is transmitted using telemetry such as GOES satellite, land-line or cellular-phone modems, or by radio transmission. Measurements of discharge are made with a current meter or acoustic Doppler current profiler, using the general methods adopted by the USGS. These methods are described in standard textbooks, USGS Water-Supply Paper 2175, and the Techniques

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of Water-Resources Investigations of the United States Geological Survey (TWRIs), Book 3, Chapters A1 through A19 and Book 8, Chapters A2 and B2, which may be accessed from <http://water.usgs.gov/pubs/twri/>. The methods are consistent with the American Society for Testing and Materials (ASTM) standards and generally follow the standards of the International Organization for Standardization (ISO).

For stream-gaging stations, discharge-rating tables for any stage are prepared from stage-discharge curves. If extensions to the rating curves are necessary to express discharge greater than measured, the extensions are made on the basis of indirect measurements of peak discharge (such as slope-area or contracted-opening measurements, or computation of flow over dams and weirs), step-backwater techniques, velocity-area studies, and logarithmic plotting. The daily mean discharge is computed from gage heights and rating tables, then the monthly and yearly mean discharges are computed from the daily values. If the stage-discharge relation is subject to change because of frequent or continual change in the physical features of the stream channel, the daily mean discharge is computed by the shifting-control method in which correction factors based on individual discharge measurements and notes by engineers and observers are used when applying the gage heights to the rating tables. If the stage-discharge relation for a station is temporarily changed by the presence of aquatic growth or debris on the controlling section, the daily mean discharge is computed by the shifting-control method.

The stage-discharge relation at some stream-gaging stations is affected by backwater from reservoirs, tributary streams, or other sources. Such an occurrence 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 at some distance from the base gage.

An index velocity is measured using ultrasonic or acoustic instruments at some stream-gaging stations and this index velocity is used to calculate an average velocity for the flow in the stream. This average velocity along with a stage-area relation is then used to calculate average discharge.

At some stations, 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 stream-gaging stations in the northern United States, the stage-discharge relation is affected by ice in the winter; therefore, computation of the discharge in the usual manner is impossible. Discharge for periods of ice effect is computed on the basis of gage-height record and occasional winter-discharge measurements. Consideration is given to the available information on temperature and precipitation, notes by gage observers and hydrologists, and comparable records of discharge from other stations in the same or nearby basins.

For a lake or reservoir station, capacity tables giving the volume or contents for any stage are prepared from stage-area relation curves defined by surveys. The application of the stage to the capacity table gives the contents, from which the daily, monthly, or yearly changes are computed.

If the stage-capacity curve is subject to changes because of deposition of sediment in the reservoir, periodic resurveys of the reservoir are necessary to define new stage-capacity curves. During the period between reservoir surveys, the computed contents may be increasingly in error due to the gradual accumulation of sediment.

For some stream-gaging stations, periods of time occur when no gage-height record is obtained or the recorded gage height is faulty and cannot be used to compute daily discharge or contents. Such a situation can happen when the recorder stops or otherwise fails to operate properly, the intakes are plugged, the float is frozen in the well, or for various other reasons. For such periods, the daily discharges are estimated on the basis of recorded range in stage, prior and subsequent records, discharge measurements, weather records, and comparison with records from other stations in the same or nearby basins. Likewise, lake or reservoir volumes may be estimated on the basis of operator's log, prior and subsequent records, inflow-outflow studies, and other information.

Data Presentation

The records published for each continuous-record surface-water discharge station (stream-gaging station) consist of five parts: (1) the station manuscript or description; (2) the data table of daily mean values of discharge for the current water year with summary data; (3) a tabular statistical summary of monthly mean flow data for a designated period, by water year; (4) 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; and (5) a hydrograph of discharge.

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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 follow that clarify information presented under the various headings of the station description.

LOCATION.—Location information is obtained from the most accurate maps available. The location of the gaging station with respect to the cultural and physical features in the vicinity and with respect to the reference place mentioned in the station name is given. 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 term indicates the time period for which records have been published for the station or for an equivalent station. An equivalent station is one that was in operation at a time that the present station was not and whose location was such that its flow reasonably can be considered equivalent to flow at the present station.

REVISED RECORDS.—If a critical error in published records is discovered, a revision is included in the first report published following discovery of the error.

GAGE.—The type of gage in current use, the datum of the current gage referred to a standard datum, 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 either will be identified by date in this paragraph of the station description for water-discharge stations or flagged in the daily discharge table. (See section titled Identifying Estimated Daily Discharge.) Information is presented relative to the accuracy of the records, to special methods of computation, and to conditions that affect natural flow at the station. In addition, information may be presented pertaining to average discharge data for the period of record; to extremes data for the period of record and the current year; and, possibly, to other pertinent items. For reservoir stations, information is given on the dam forming the reservoir, the capacity, the outlet works and spillway, and the purpose and use of the reservoir.

COOPERATION.—Records provided by a cooperating organization or obtained for the USGS by a cooperating organization are identified here.

EXTREMES OUTSIDE PERIOD OF RECORD.—Information here documents 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 USGS.

REVISIONS.—Records are revised if errors in published records are discovered. Appropriate updates are made in the USGS distributed data system, NWIS, and subsequently to its Web-based National data system, NWISWeb (<http://water.usgs.gov/nwis/nwis>). Users are encouraged to obtain all required data from NWIS or NWISWeb to ensure that they have the most recent data updates. Updates to NWISWeb are made on an annual basis.

Although rare, occasionally the records of a discontinued gaging station may need revision. Because no current or, possibly, future station manuscript would be published for these stations 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 (address given on the back of the title page of this report) to determine if the published records were revised after the station was discontinued. If, however, the data for a discontinued station were obtained by computer retrieval, the data would be current. 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 stage-capacity table when daily volumes are given.

Peak Discharge Greater than Base Discharge

Tables of peak discharge above base discharge are included for some stations where secondary instantaneous peak discharge data are used in flood-frequency studies of highway and bridge design, flood-control structures, and other flood-related projects. The base discharge value is selected so an average of three peaks a year will be reported. This base discharge value has a recurrence interval of approximately 1.1 years or a 91-percent chance of exceedence in any 1 year.

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 arithmetic 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 is expressed in cubic feet per second per square mile (line headed CF5M); or in inches (line headed IN); or in acre-feet (line headed AC-FT). Values for cubic feet per second per square mile and runoff in inches or in acre-feet may be omitted if extensive regulation or diversion is in effect 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 volumes are given. These values are identified by a symbol and a corresponding footnote.

Statistics of Monthly Mean Data

A tabular summary of the mean (line headed MEAN), maximum (MAX), and minimum (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 values. 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. The designated period will consist of all of the station record within the specified water years, including complete months of record for partial water years, and may coincide with the period of record for the station. The water years for which the statistics are computed are 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 records within the specified water years, including complete months of record for partial water years, and may coincide with the period of record for the station. The water years for which the statistics are computed are 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 the dates of occurrence do not fall within the selected water years listed in the heading, 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 extensive regulation or diversion of flow is in effect in the drainage basin.

The following summary statistics data are provided with each continuous record of discharge. Comments that 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.

ANNUAL MEAN.—The arithmetic mean for the individual daily mean discharges for the year noted or for the designated period.

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

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

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

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

ANNUAL 7-DAY MINIMUM.—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.

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This value should not be confused with the 7-day 10-year low-flow statistic.

MAXIMUM PEAK FLOW.—The maximum instantaneous peak discharge occurring for the water year or designated period. Occasionally the maximum flow for a year may occur at midnight at the beginning or end of the year, on a recession from or rise toward a higher peak in the adjoining year. In this case, the maximum peak flow is given in the table and the maximum flow may be reported in a footnote or in the REMARKS paragraph in the manuscript.

MAXIMUM PEAK STAGE.—The maximum instantaneous peak stage occurring for the water year or designated period. Occasionally the maximum stage for a year may occur at midnight at the beginning or end of the year, on a recession from or rise toward a higher peak in the adjoining year. In this case, the maximum peak stage is given in the table and the maximum stage may be reported in the REMARKS paragraph in the manuscript or in a footnote. If the dates of occurrence of the maximum peak stage and maximum peak flow are different, 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 equivalent to 43,560 cubic feet or about 326,000 gallons or 1,233 cubic meters.

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

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

10 PERCENT EXCEEDS.—The discharge that has been exceeded 10 percent of the time for the designated period.

50 PERCENT EXCEEDS.—The discharge that has been exceeded 50 percent of the time for the designated period.

90 PERCENT EXCEEDS.—The discharge that has been 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 table lists annual maximum stage and discharge at crest-stage stations, and the second table lists 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 often made in times of drought or flood to give better areal coverage to those events. Those measurements and others collected for a 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. This identification is shown either by flagging individual daily values with the letter “e” and noting in a table footnote, “e—Estimated,” or by listing the dates of the estimated record in the REMARKS paragraph of the station description.

Accuracy of Field Data and Computed Results

The accuracy of streamflow data 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 observations of stage, measurements of discharge, and interpretations of records.

The degree of accuracy of the records is stated in the REMARKS in the station description. “Excellent” indicates that about 95 percent of the daily discharges are within 5 percent of the true value; “good” within 10 percent; and “fair,” within 15 percent. “Poor” indicates that daily discharges have less than “fair” accuracy. Different accuracies may be attributed to different parts of a given record.

Values of daily mean discharge in this report are shown to the nearest hundredth of a cubic foot per second for discharges of less than 1 ft³/s; to the nearest tenths between 1.0 and 10 ft³/s; to whole numbers between 10 and

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1,000 ft³/s; and to 3 significant figures above 1,000 ft³/s. The number of significant figures used is based solely on the magnitude of the discharge value. The same rounding rules apply to discharge values listed for partial-record stations.

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, values 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 observed discharge.

Other Data Records Available

Information of a more detailed nature than that published for most of the stream-gaging stations such as discharge measurements, gage-height records, and rating tables is available from the District office. Also, most stream-gaging station records are available in computer-usable form and many statistical analyses have been made.

Information on the availability of unpublished data or statistical analyses may be obtained from the District office (see address that is shown on the back of the title page of this report).

EXPLANATION OF PRECIPITATION RECORDS

Data Collection and Computation

Rainfall data generally are collected using electronic data loggers that measure the rainfall in 0.01-inch increments every 15 minutes using either a tipping-bucket rain gage or a collection well gage. Twenty-four hour rainfall totals are tabulated and presented. A 24-hour period extends from just past midnight of the previous day to midnight of the current day. Snowfall-affected data can result during cold weather when snow fills the rain-gage funnel and then melts as temperatures rise. Snowfall-affected data are subject to errors. Missing values are indicated by this symbol “---” in the table.

Data Presentation

Precipitation records collected at surface-water gaging stations are identified with the same station number and name as the stream-gaging station. Where a surface-water daily-record station is not available, the precipitation record is published with its own name and latitude-longitude identification number.

Information pertinent to the history of a precipitation station is provided in descriptive headings preceding the tabular data. These descriptive headings give details regarding location, period of record, and general remarks.

The following information is provided with each precipitation station. Comments that follow clarify information presented under the various headings of the station description.

LOCATION.—See Data Presentation in the EXPLANATION OF STAGE- AND WATER-DISCHARGE RECORDS section of this report (same comments apply).

PERIOD OF RECORD.—See Data Presentation in the EXPLANATION OF STAGE- AND WATER-DISCHARGE RECORDS section of this report (same comments apply).

INSTRUMENTATION.—Information on the type of rainfall collection system is given.

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

EXPLANATION OF WATER-QUALITY RECORDS

Collection and Examination of Data

Surface-water samples for analysis usually are collected at or near stream-gaging stations. The quality-of-water records are given immediately following the discharge records at these stations.

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The descriptive heading for water-quality records gives the period of record for all water-quality data; the period of daily record for parameters that are measured on a daily basis (specific conductance, water temperature, sediment discharge, and so forth); extremes for the current year; and general remarks.

For ground-water records, no descriptive statements are given; however, the well number, depth of well, sampling date, or other pertinent data are given in the table containing the chemical analyses of the ground water.

Water Analysis

Most of the methods used for collecting and analyzing water samples are described in the TWRI, which may be accessed from <http://water.usgs.gov/pubs/twri/>.

One sample can define adequately 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 at several verticals to obtain a representative sample needed for an accurate mean concentration and for use in calculating load.

Chemical-quality data published in this report are considered to be the most representative values 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 (and sometimes mean or median values) for each constituent measured, and are based on 15-minute or 1-hour intervals of recorded data beginning at 0000 hours and ending at 2400 hours for the day of record.

SURFACE-WATER-QUALITY RECORDS

Records of surface-water quality ordinarily are obtained at or near stream-gaging stations because discharge data are useful in the interpretation of surface-water quality. Records of surface-water quality in this report involve a variety of types of data and measurement frequencies.

Classification of Records

Water-quality data for surface-water sites are grouped into one of three classifications. A *continuous-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 continuous- or partial-record station, where 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 *continuous records* as used in this report and *continuous recordings* that refer to a continuous graph or a series of discrete values recorded at short intervals. 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 and 12.

Accuracy of the Records

One of four accuracy classifications is applied for measured physical properties at continuous-record stations on a scale ranging from poor to excellent. The accuracy rating is based on data values recorded before any shifts or

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corrections are made. Additional consideration also is given to the amount of publishable record and to the amount of data that have been corrected or shifted.

Measured physical property	Rating			
	Excellent	Good	Fair	Poor
Water temperature	$\leq \pm 0.2$ °C	$> \pm 0.2$ to 0.5 °C	$> \pm 0.5$ to 0.8 °C	$> \pm 0.8$ °C
Specific conductance	$\leq \pm 3\%$	$> \pm 3$ to 10%	$> \pm 10$ to 15%	$> \pm 15\%$
Dissolved oxygen	$\leq \pm 0.3$ mg/L	$> \pm 0.3$ to 0.5 mg/L	$> \pm 0.5$ to 0.8 mg/L	$> \pm 0.8$ mg/L
pH	$\leq \pm 0.2$ unit	$> \pm 0.2$ to 0.5 unit	$> \pm 0.5$ to 0.8 unit	$> \pm 0.8$ unit
Turbidity	$\leq \pm 5\%$	$> \pm 5$ to 10%	$> \pm 10$ to 15%	$> \pm 15\%$

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.

On-Site Measurements and Sample Collection

In obtaining water-quality data, a major concern is assuring that the data obtained represent the naturally occurring quality of the water. To ensure this, certain measurements, such as water temperature, pH, and dissolved oxygen, must be made on site when the samples are taken. To assure that measurements made in the laboratory also represent the naturally occurring water, carefully prescribed procedures must be 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 on-site measurements and for collecting, treating, and shipping samples are given in TWRI's Book 1, Chapter D2; Book 5, Chapters A1, A3, and A4; and Book 9, Chapters A1-A6. These TWRI's are listed in this report. Also, detailed information on collecting, treating, and shipping samples can be obtained from the USGS District office (see address that is shown on the back of title page in this report).

Water Temperature

Water temperatures are measured at most of the water-quality stations. In addition, water temperatures are taken at the 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.

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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 be 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 observed immediately before and after the periods, and suspended-sediment loads for other periods of similar discharge.

At other stations, suspended-sediment samples are 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.

Laboratory Measurements

Samples for biochemical oxygen demand (BOD) and indicator bacteria are analyzed locally. All other samples are analyzed in the USGS laboratory in Lakewood, Colorado, unless otherwise noted. Methods used in analyzing sediment samples and computing sediment records are given in TWRI, Book 5, Chapter C1. Methods used by the USGS laboratories are given in the TWRI, Book 1, Chapter D2; and Book 5, Chapters A1, A3, and A4. The TWRI publications may be accessed from <http://water.usgs.gov/pubs/twri/>. 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 so forth, 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 then 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 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 information in the EXPLANATION OF STAGE- AND WATER-DISCHARGE RECORDS section of this report (same comments apply).

DRAINAGE AREA.—See Data Presentation information in the EXPLANATION OF STAGE- AND WATER-DISCHARGE RECORDS section of this report (same comments apply).

PERIOD OF RECORD.—This indicates the time periods for which published water-quality records for the station are available. 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 parameters individually.

INSTRUMENTATION.—Information on instrumentation is given only if a water-quality monitor temperature record, 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 USGS by a cooperating organization are identified here.

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EXTREMES.—Maximums and minimums are given only for parameters measured daily or more frequently. For parameters measured weekly or less frequently, true maximums or minimums may not have been obtained. Extremes, when given, are provided for both the period of record and for the current water year.

REVISIONS.—Records are revised if errors in published water-quality records are discovered. Appropriate updates are made in the USGS distributed data system, NWIS, and subsequently to its Web-based National data system, NWISWeb (<http://waterdata.usgs.gov/nwis>). Users of USGS water-quality data are encouraged to obtain all required data from NWIS or NWISWeb to ensure that they have the most recent updates. Updates to the NWISWeb are made on an annual basis.

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.

Remark Codes

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

Printed Output	Remark
e	Value is estimated.
>	Actual value is known to be greater than value shown.
<	Actual value is known to be less than value shown.
M	Presence of material verified, but not quantified.
N	Presumptive evidence of presence of material.
U	Material specifically analyzed for, but not detected.
A	Value is an average.
V	Analyte was detected in both the environmental sample and the associated blanks.
S	Most probable value.

Water-Quality Control Data

The USGS National Water Quality Laboratory collects quality-control data on a continuing basis to evaluate selected analytical methods to determine long-term method detection levels (LT-MDLs) and laboratory reporting levels (LRLs). These values are re-evaluated each year on the basis of the most recent quality-control data and, consequently, may change from year to year.

This reporting procedure limits the occurrence of false positive error. Falsely reporting a concentration greater than the LT-MDL for a sample in which the analyte is not present is 1 percent or less. Application of the LRL limits the occurrence of false negative error. The chance of falsely reporting a non-detection for a sample in which the analyte is present at a concentration equal to or greater than the LRL is 1 percent or less.

Accordingly, concentrations are reported as less than LRL for samples in which the analyte was either not detected or did not pass identification. Analytes detected at concentrations between the LT-MDL and the LRL and that pass identification criteria are estimated. Estimated concentrations will be noted with a remark code of "E." These data should be used with the understanding that their uncertainty is greater than that of data reported without the E remark code.

Data generated from quality-control (QC) samples are a requisite for evaluating the quality of the sampling and processing techniques as well as data from the actual samples themselves. Without QC data, environmental sample data cannot be adequately interpreted because the errors associated with the sample data are unknown. The various types of QC samples collected by this District office are described in the following section. Procedures have been

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established for the storage of water-quality-control data within the USGS. These procedures allow for storage of all derived QC data and are identified so that they can be related to corresponding environmental samples. These data are not presented in this report but are available from the District office.

Blank Samples

Blank samples are collected and analyzed to ensure that environmental samples have not been contaminated in the overall data-collection process. The blank solution used to develop specific types of blank samples is a solution that is free of the analytes of interest. Any measured value signal in a blank sample for an analyte (a specific component measured in a chemical analysis) that was absent in the blank solution is believed to be due to contamination. Many types of blank samples are possible; each is designed to segregate a different part of the overall data-collection process. The types of blank samples collected in this district are:

Field blank—A blank solution that is subjected to all aspects of sample collection, field processing preservation, transportation, and laboratory handling as an environmental sample.

Trip blank—A blank solution that is put in the same type of bottle used for an environmental sample and kept with the set of sample bottles before and after sample collection.

Equipment blank—A blank solution that is processed through all equipment used for collecting and processing an environmental sample (similar to a field blank but normally done in the more controlled conditions of the office).

Sampler blank—A blank solution that is poured or pumped through the same field sampler used for collecting an environmental sample.

Filter blank—A blank solution that is filtered in the same manner and through the same filter apparatus used for an environmental sample.

Splitter blank—A blank solution that is mixed and separated using a field splitter in the same manner and through the same apparatus used for an environmental sample.

Preservation blank—A blank solution that is treated with the sampler preservatives used for an environmental sample.

Reference Samples

Reference material is a solution or material prepared by a laboratory. The reference material composition is certified for one or more properties so that it can be used to assess a measurement method. Samples of reference material are submitted for analysis to ensure that an analytical method is accurate for the known properties of the reference material. Generally, the selected reference material properties are similar to the environmental sample properties.

Replicate Samples

Replicate samples are a set of environmental samples collected in a manner such that the samples are thought to be essentially identical in composition. Replicate is the general case for which a duplicate is the special case consisting of two samples. Replicate samples are collected and analyzed to establish the amount of variability in the data contributed by some part of the collection and analytical process. Many types of replicate samples are possible, each of which may yield slightly different results in a dynamic hydrologic setting, such as a flowing stream. The types of replicate samples collected in this district are:

Concurrent samples—A type of replicate sample in which the samples are collected simultaneously with two or more samplers or by using one sampler and alternating the collection of samples into two or more compositing containers.

Sequential samples—A type of replicate sample in which the samples are collected one after the other, typically over a short time.

Split sample—A type of replicate sample in which a sample is split into subsamples, each subsample contemporaneous in time and space.

WATER RESOURCES DATA—CALIFORNIA, WATER YEAR 2004

Spike Samples

Spike samples are samples to which known quantities of a solution with one or more well-established analyte concentrations have been added. These samples are analyzed to determine the extent of matrix interference or degradation on the analyte concentration during sample processing and analysis.

ACCESS TO USGS WATER DATA

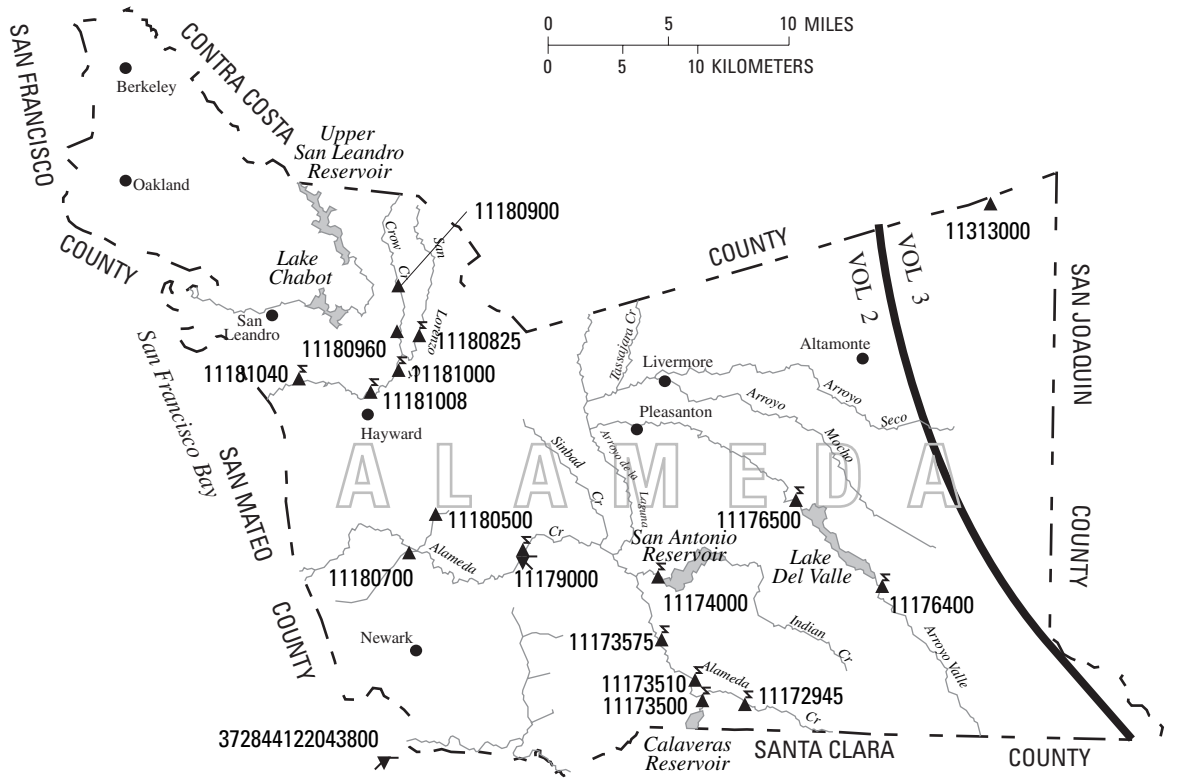
The USGS provides near real-time stage and discharge data for many of the gaging stations equipped with the necessary telemetry and historic daily mean and peak-flow discharge data for most current or discontinued gaging stations through the World Wide Web (WWW). These data may be accessed from <http://water.usgs.gov>.

Water-quality data and ground-water data also are available through the WWW. In addition, data can be provided in various machine-readable formats on various media. Information about the availability of specific types of data or products, and user charges, can be obtained locally from each Water Discipline District Office (See address that is shown on the back of the title page of this report.)

DEFINITION OF TERMS

Specialized technical terms related to streamflow, water-quality, and other hydrologic data, as used in this report, may be accessed from http://water.usgs.gov/ADR_Defs_2004.pdf. Terms such as algae, water level, and precipitation are used in their common everyday meanings, definitions of which are given in standard dictionaries. Not all terms defined in this alphabetical list apply to every State. See also table for converting English units to International System (SI) Units. Other glossaries that also define water-related terms are accessible from <http://water.usgs.gov/glossaries.html>.

WATER RESOURCES DATA—CALIFORNIA, WATER YEAR 2004



EXPLANATION

- ▲ Gaging Station
- ▲ Gaging Station with Telemetry
- ◆ Gaging and Water-Quality Station (Sediment, Temperature)
- ◆ Gaging and Water-Quality Station with Telemetry (Sediment)
- ◆ Gaging and Water-Quality Station with Telemetry (Sediment, Temperature)
- ✈ Water-Quality Station (Chemical, Temperature)
- ▲ Gaging and Water-Quality Station (Sediment, Miscellaneous Measurement Site)

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

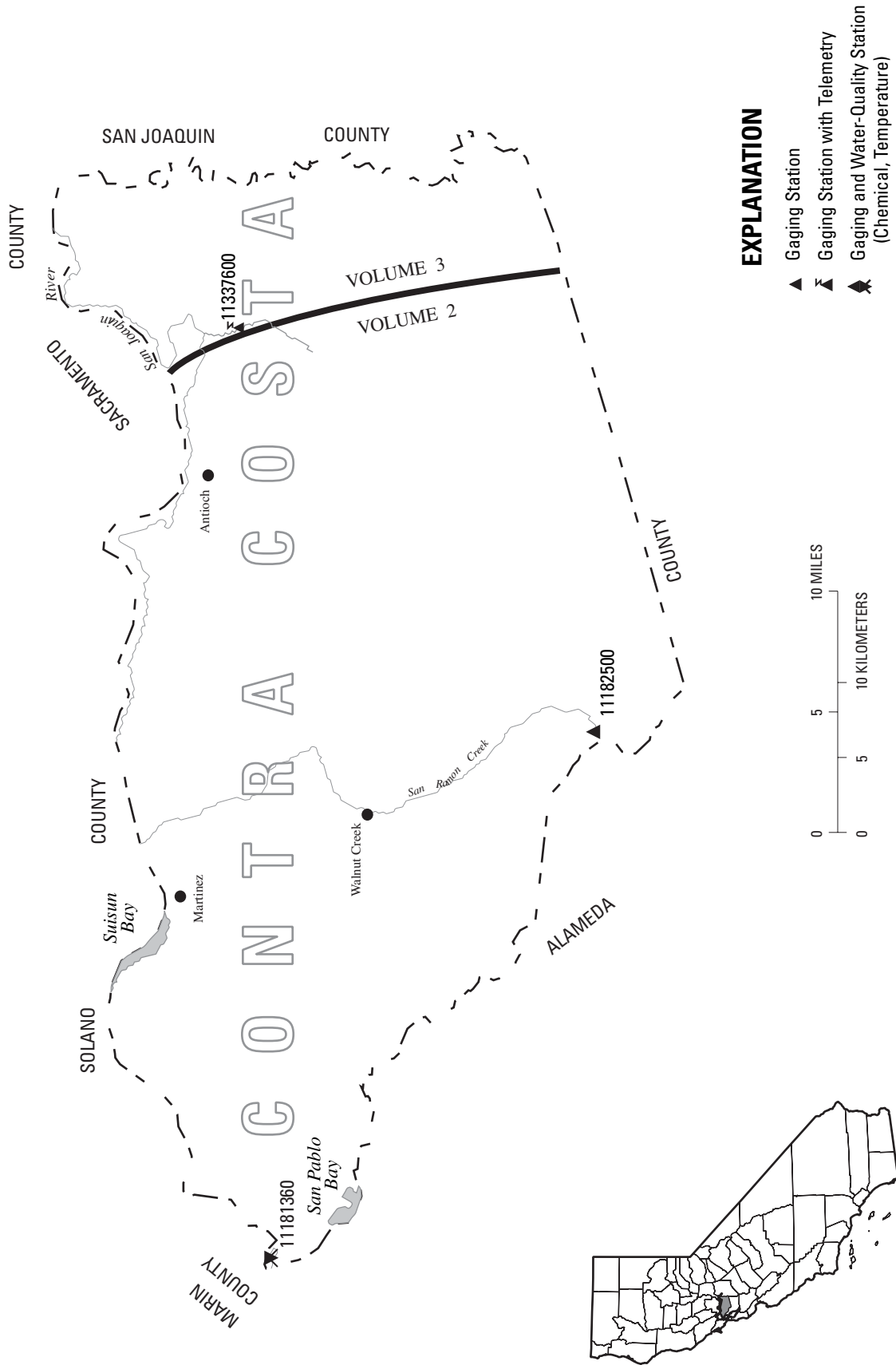
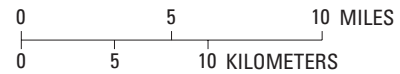


Figure 3. Location of discharge and water-quality stations in Contra Costa County. (NOTE: Record for station 11337000 published in volume 3.)

WATER RESOURCES DATA—CALIFORNIA, WATER YEAR 2004



EXPLANATION

- ▲ Gaging Station with Telemetry
- ◆ Gaging Station and Water-Quality Station (Chemical, Temperature) with Telemetry

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

WATER RESOURCES DATA—CALIFORNIA, WATER YEAR 2004

EXPLANATION

- ▲ Gaging Station
- ▲ Gaging Station with Telemetry
- ◆ Gaging and Water-Quality Station with Telemetry (Sediment)
- ◆ Gaging and Water-Quality Station with Telemetry (Chemical, Temperature)
- ◆ Gaging and Water-Quality Station w/Telemetry (Sediment, Temperature)
- Powerplant

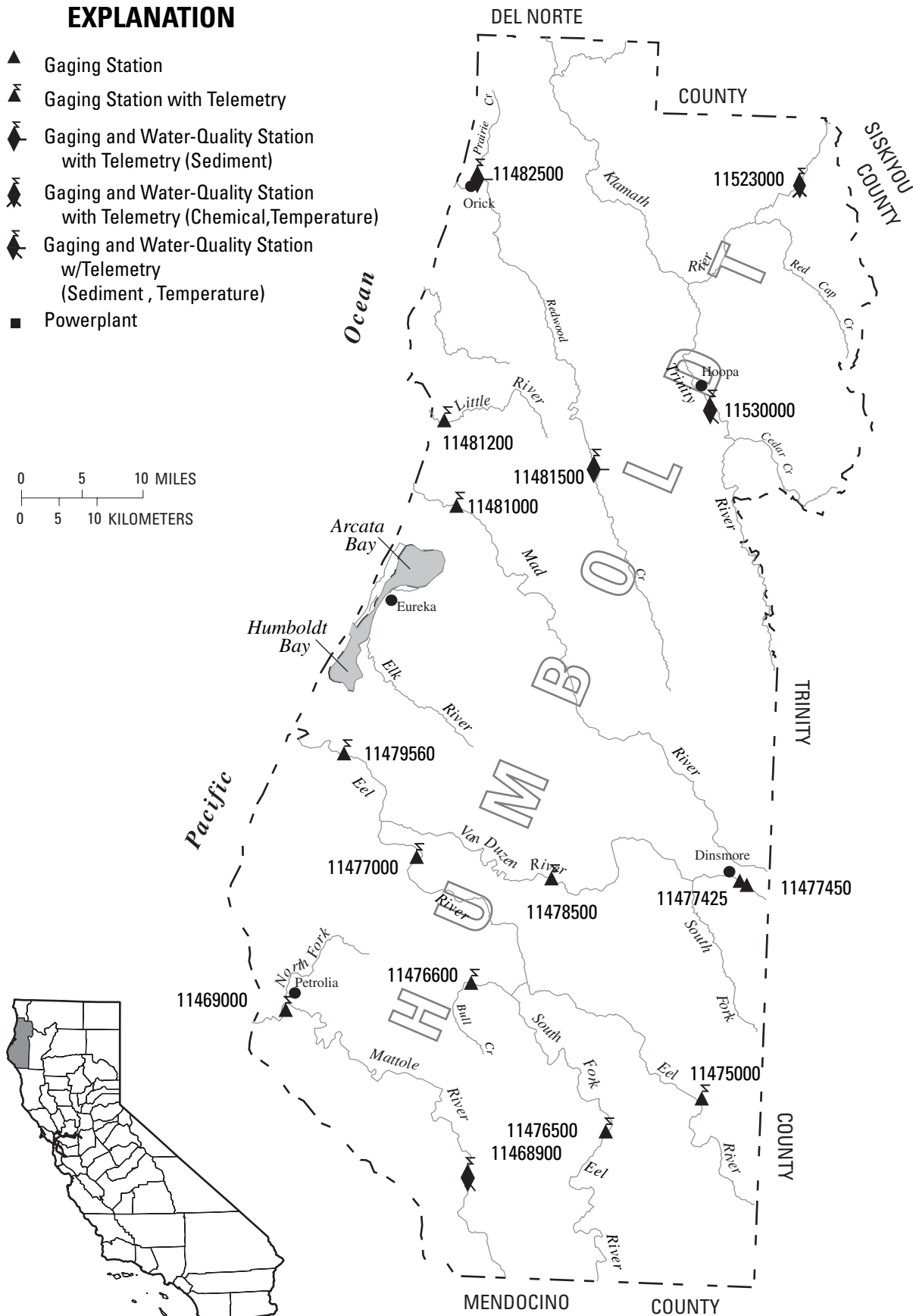
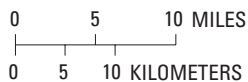


Figure 5. Location of discharge and water-quality stations in Humboldt County.

WATER RESOURCES DATA—CALIFORNIA, WATER YEAR 2004

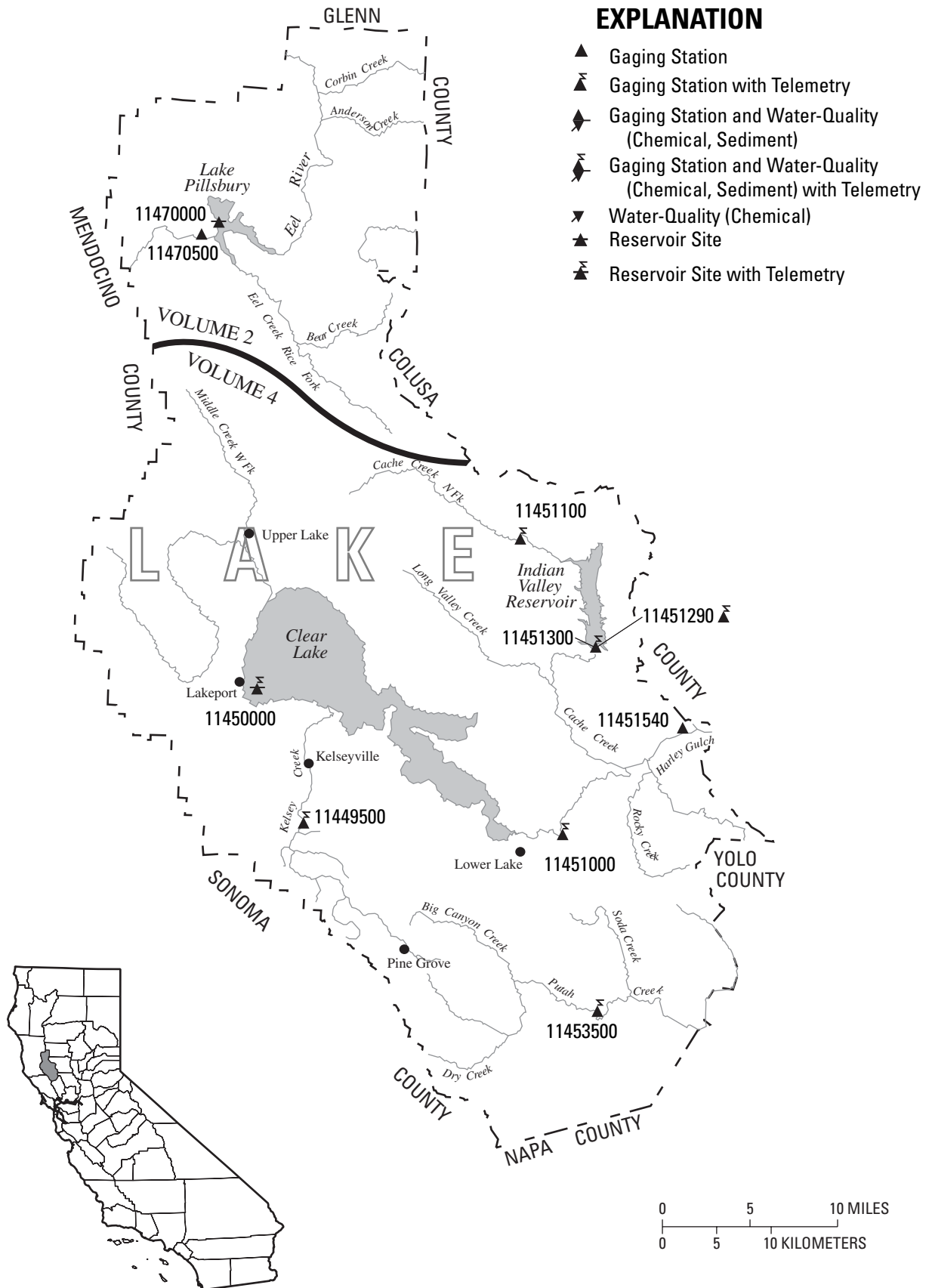


Figure 6. Location of discharge and water-quality stations in Lake County.
 (NOTE: Records for stations 11449500 through 11453500 published in volume 4.)

WATER RESOURCES DATA—CALIFORNIA, WATER YEAR 2004

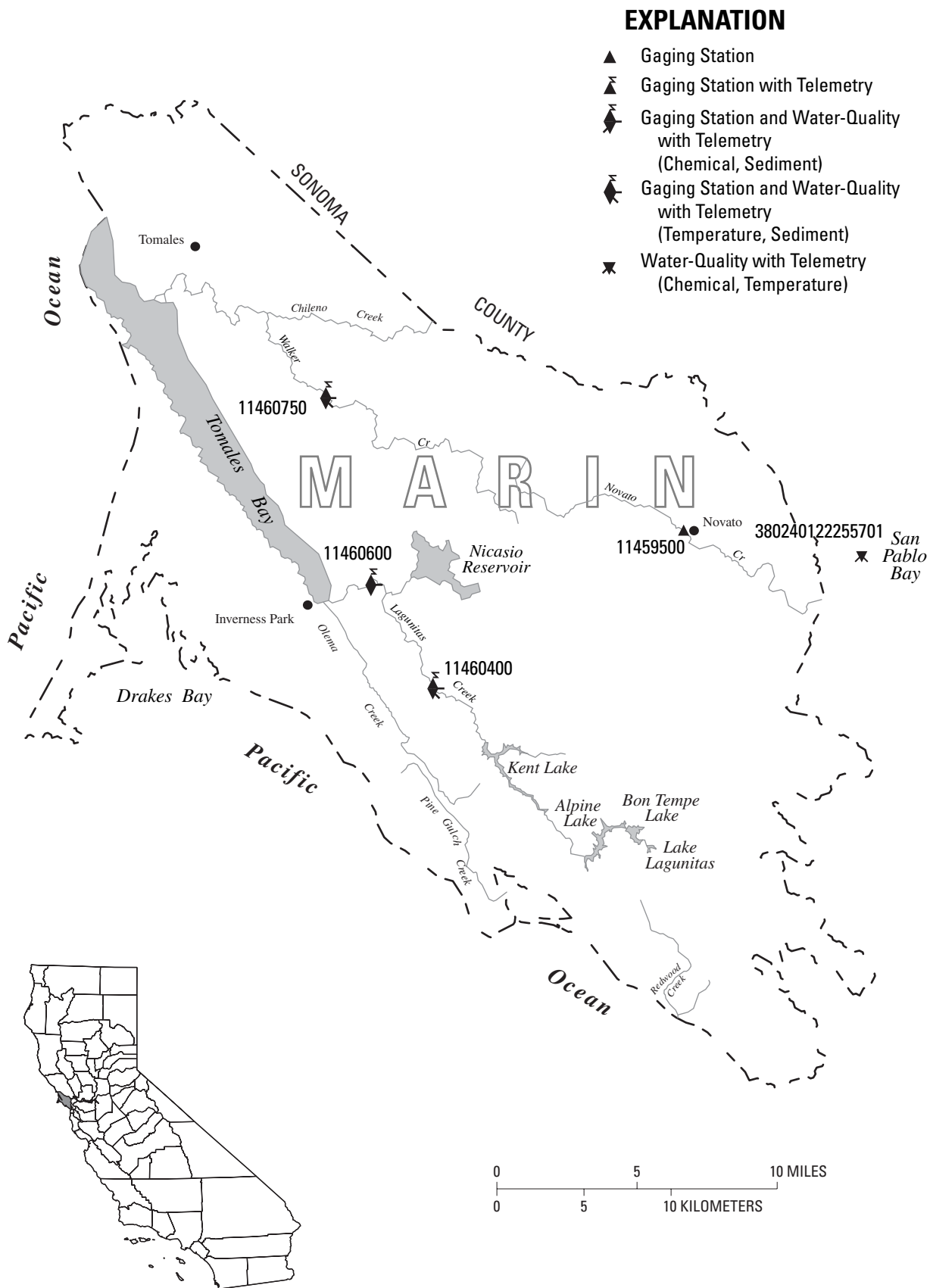


Figure 7. Location of discharge and water-quality stations in Marin County.

WATER RESOURCES DATA—CALIFORNIA, WATER YEAR 2004

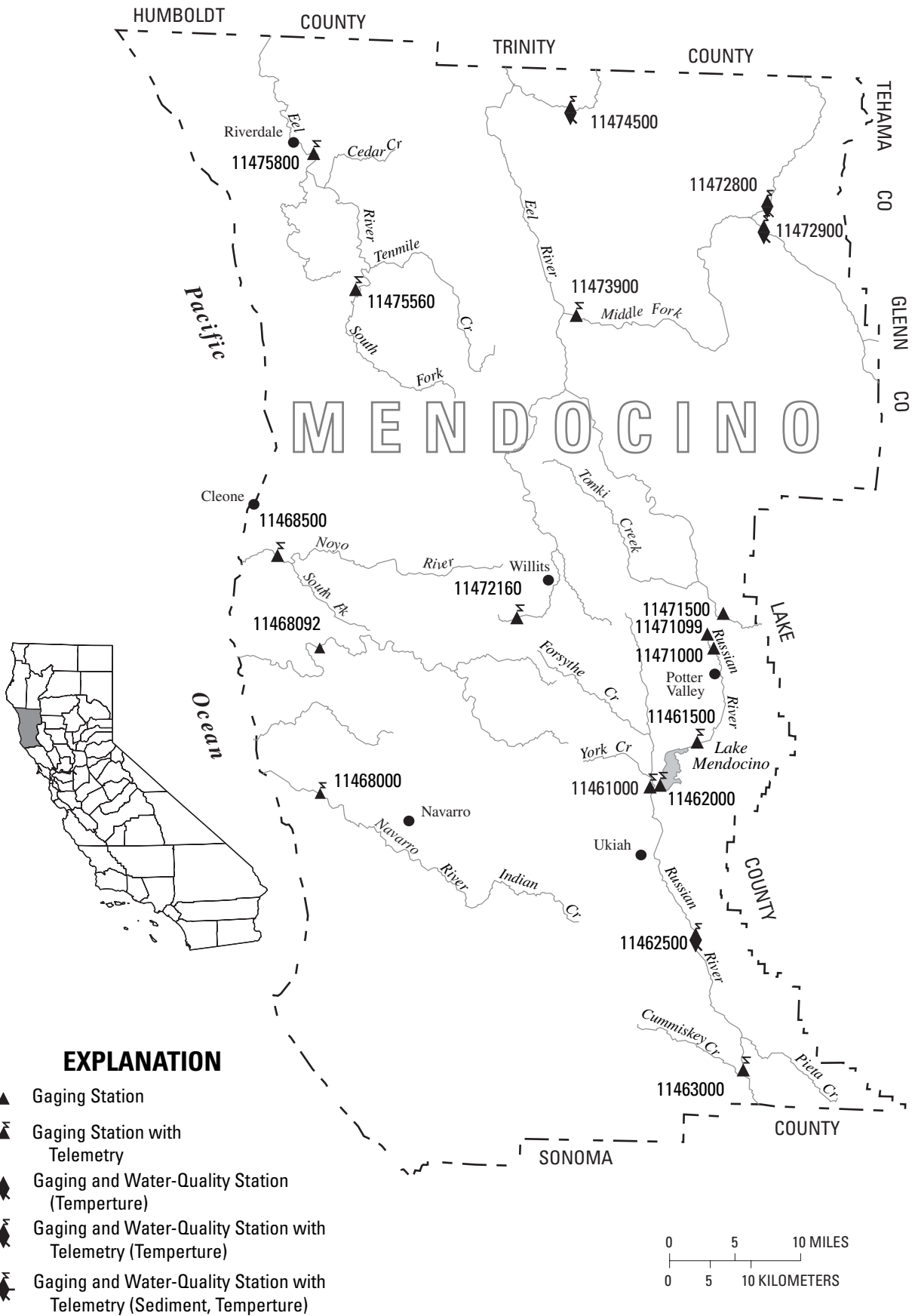
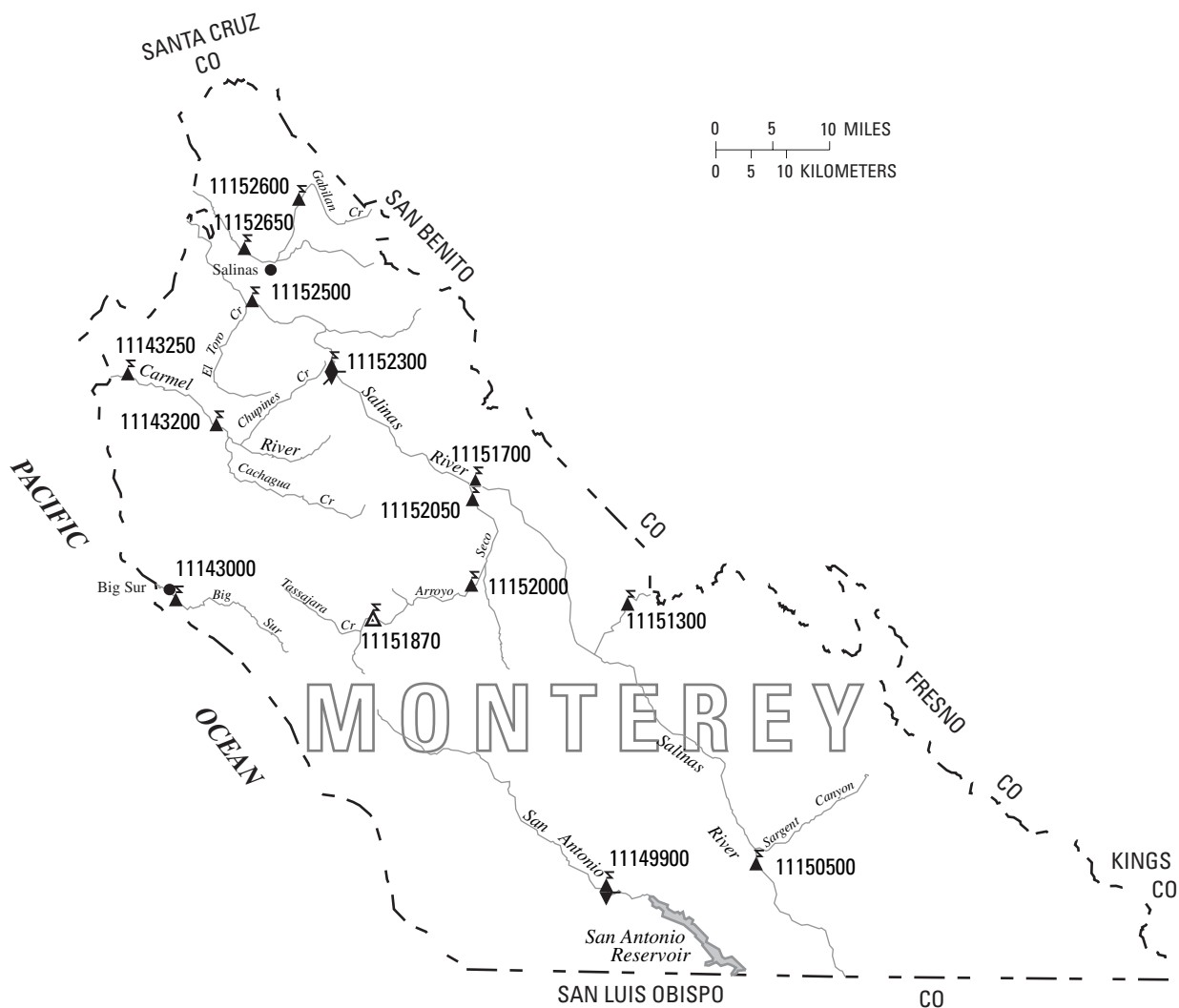


Figure 8. Location of discharge and water-quality stations in Mendocino County.

WATER RESOURCES DATA—CALIFORNIA, WATER YEAR 2004



EXPLANATION

- ▲ Gaging Station with Telephone, Radio, or Data-Collection Platform (Partial Record)
- ▲ Gaging Station with Telephone, Radio, or Data-Collection Platform
- ◆ Gaging and Water-Quality Station with Data-Collection Platform (Sediment)
- ◆ Gaging and Water-Quality Station with Data-Collection Platform (Chemical, Sediment)

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

WATER RESOURCES DATA—CALIFORNIA, WATER YEAR 2004

EXPLANATION

- ▲ Gaging Station with Telemetry
- ★ Reservoir Site and Contents

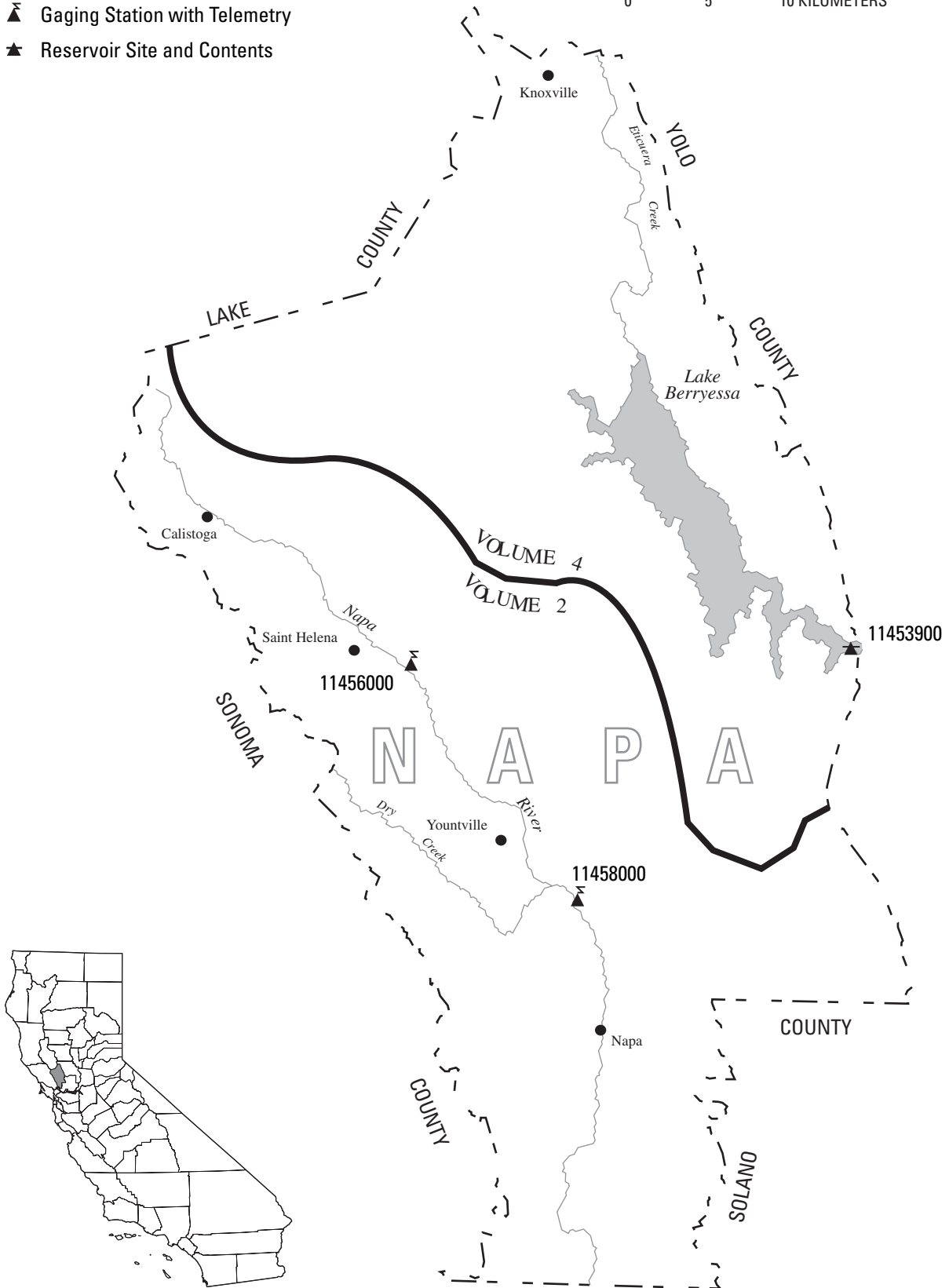
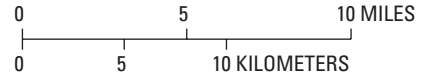
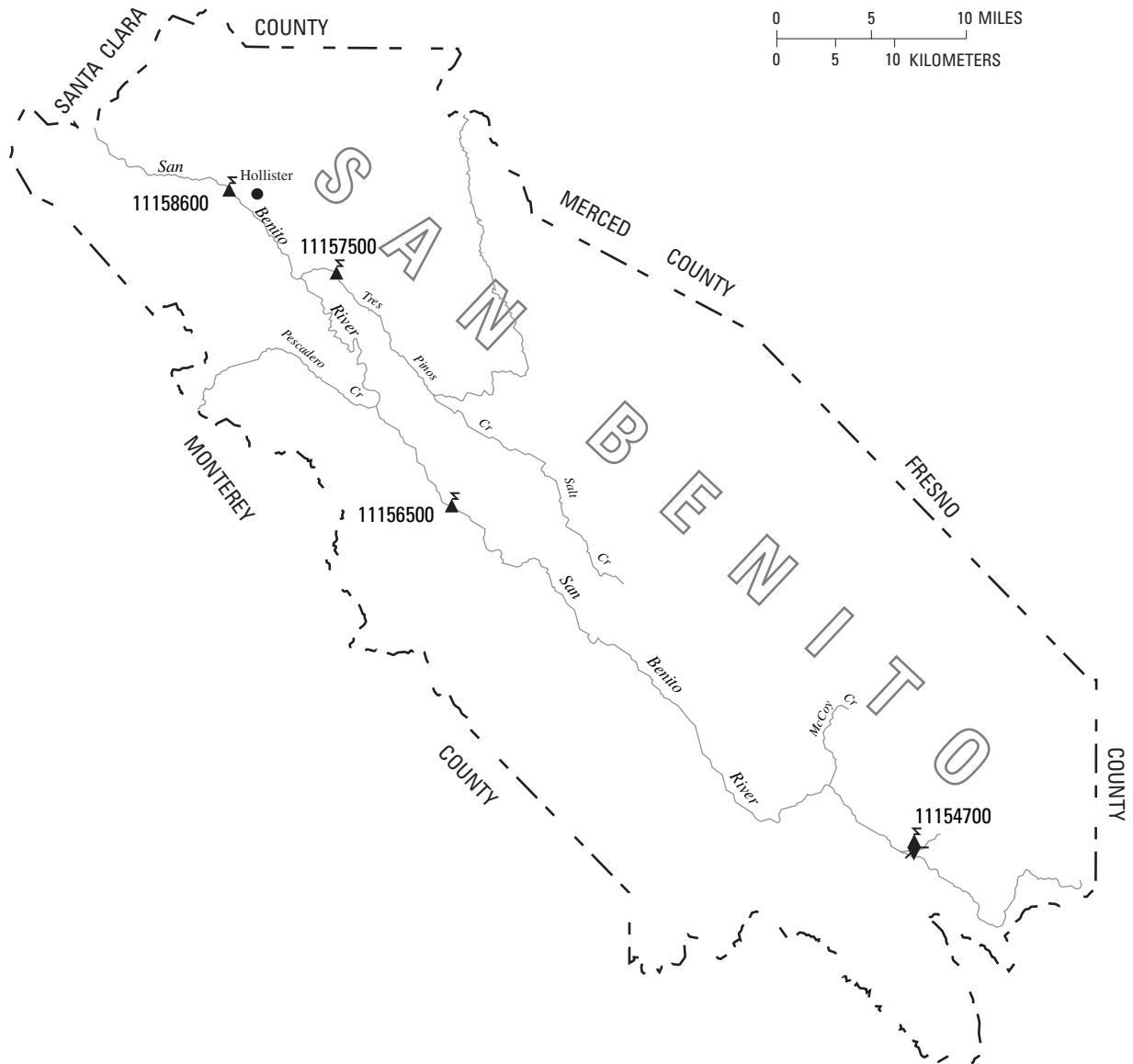


Figure 10. Location of discharge stations in Napa County.
 (NOTE: Record for station 11453900 published in volume 4.)

WATER RESOURCES DATA—CALIFORNIA, WATER YEAR 2004



EXPLANATION

- ▲ Gaging Station with Data-Collection Platform
- ◆ Gaging and Water-Quality Station with Data-Collection Platform (Sediment, Chemical)

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

WATER RESOURCES DATA—CALIFORNIA, WATER YEAR 2004

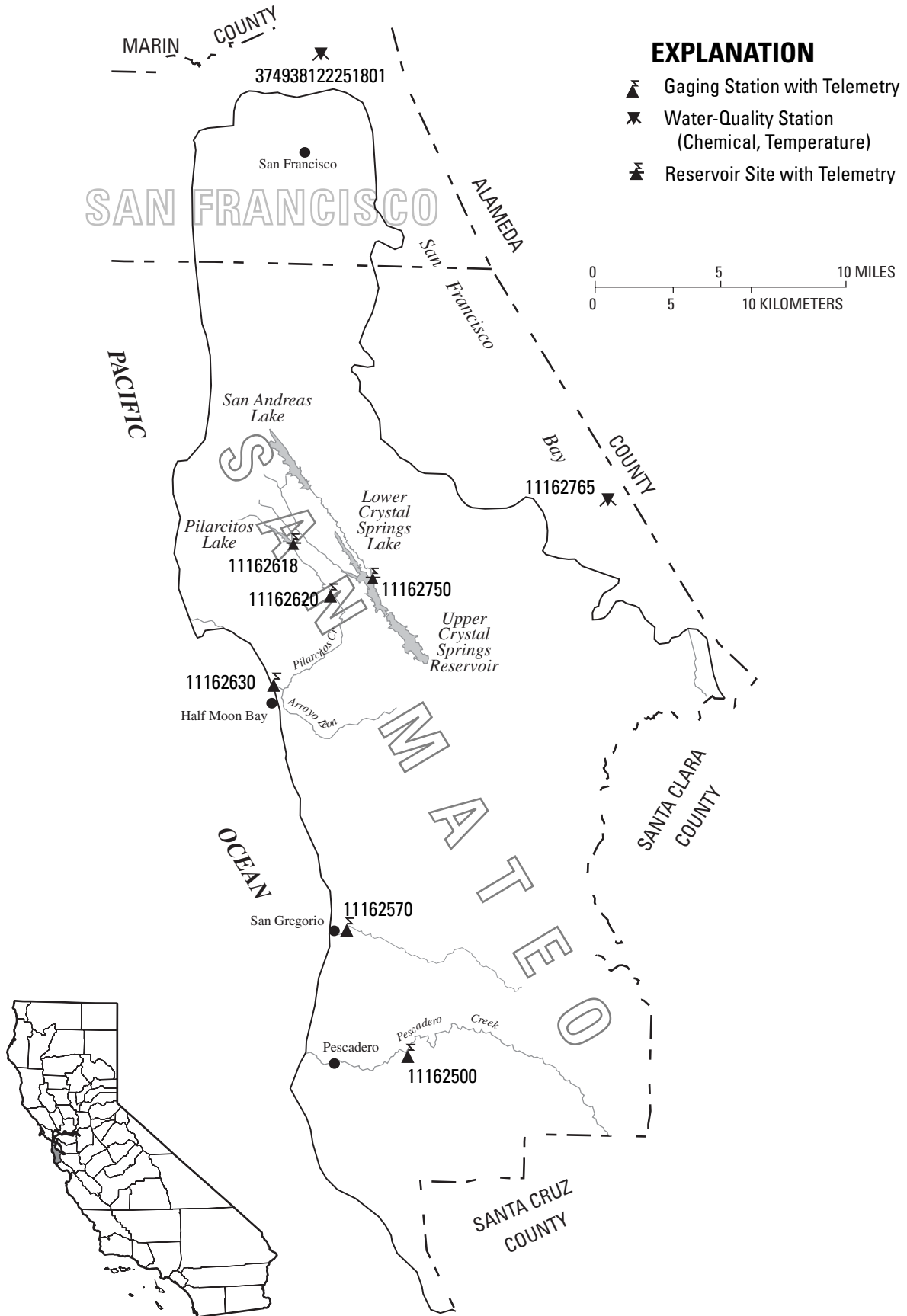


Figure 12. Location of discharge and water-quality stations in San Francisco and San Mateo Counties.

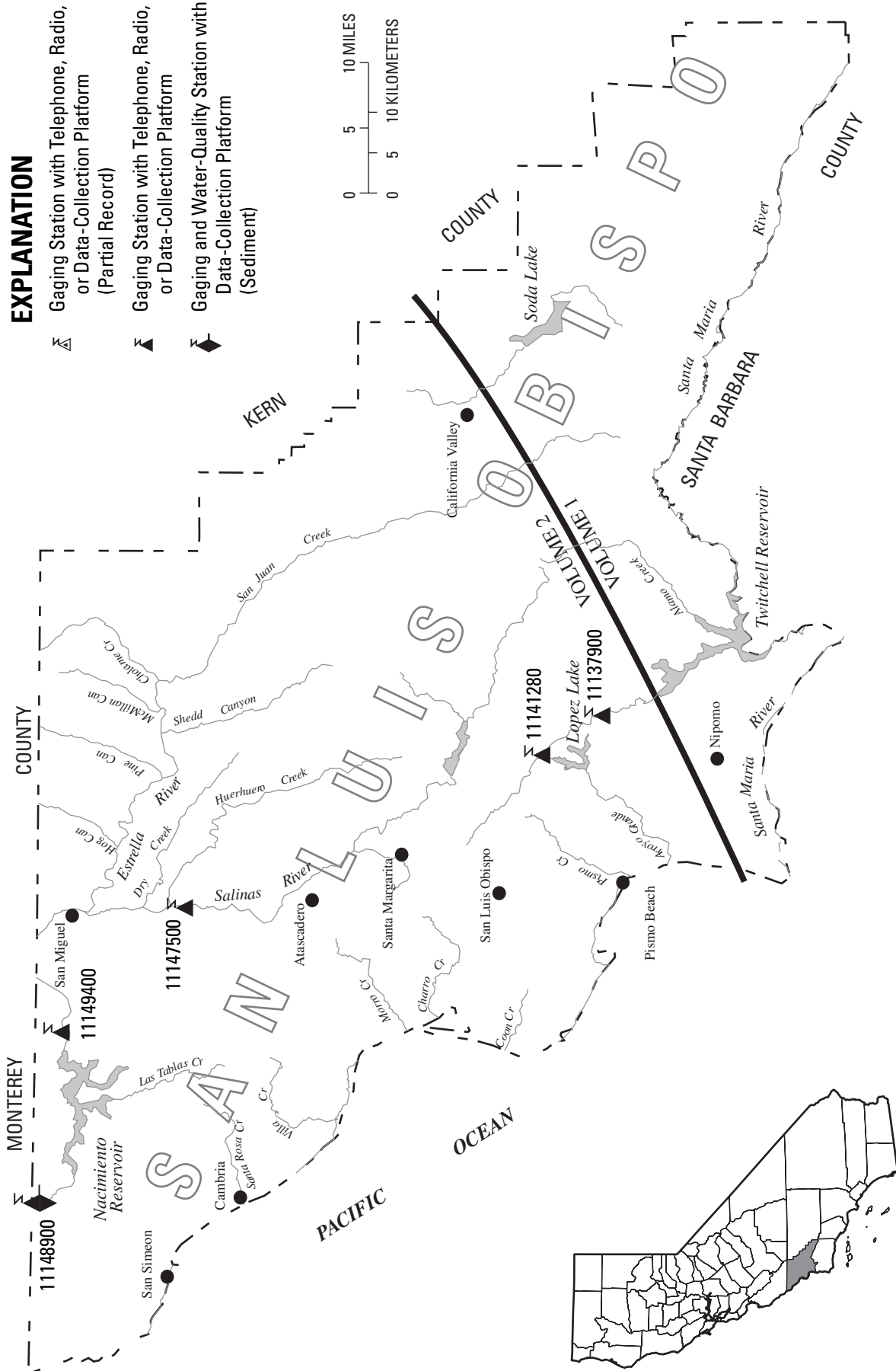


Figure 13. Location of discharge and water-quality stations in San Luis Obispo County.

WATER RESOURCES DATA—CALIFORNIA, WATER YEAR 2004



EXPLANATION

- ▲ Gaging Station with Telephone, Radio, or Data-Collection Platform
- ◆ Gaging Station with Telephone, Radio, or Data-Collection Platform (Sediment)

Figure 14. Location of discharge and water-quality stations in Santa Clara County.

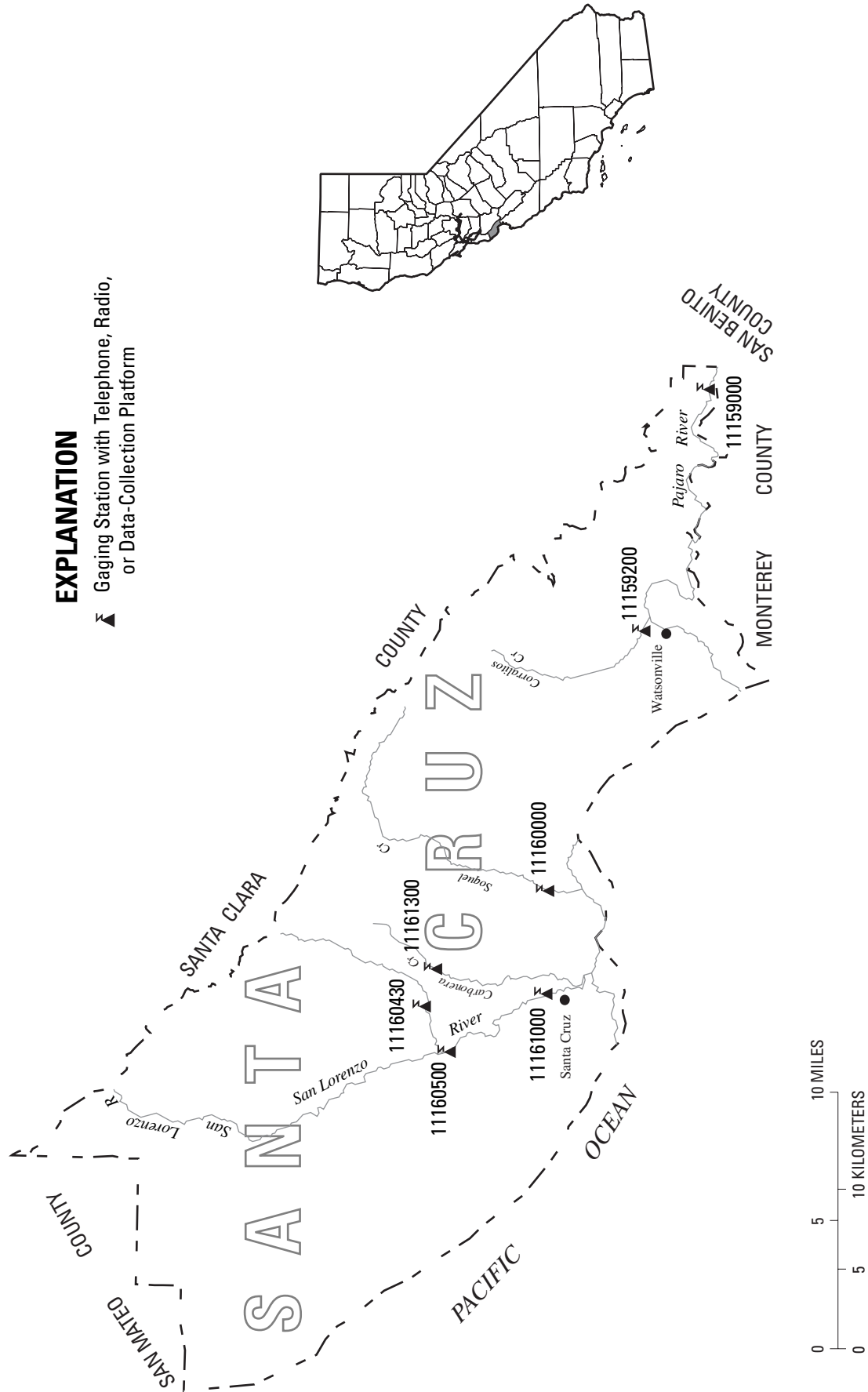


Figure 15. Location of discharge stations in Santa Cruz County.

WATER RESOURCES DATA—CALIFORNIA, WATER YEAR 2004

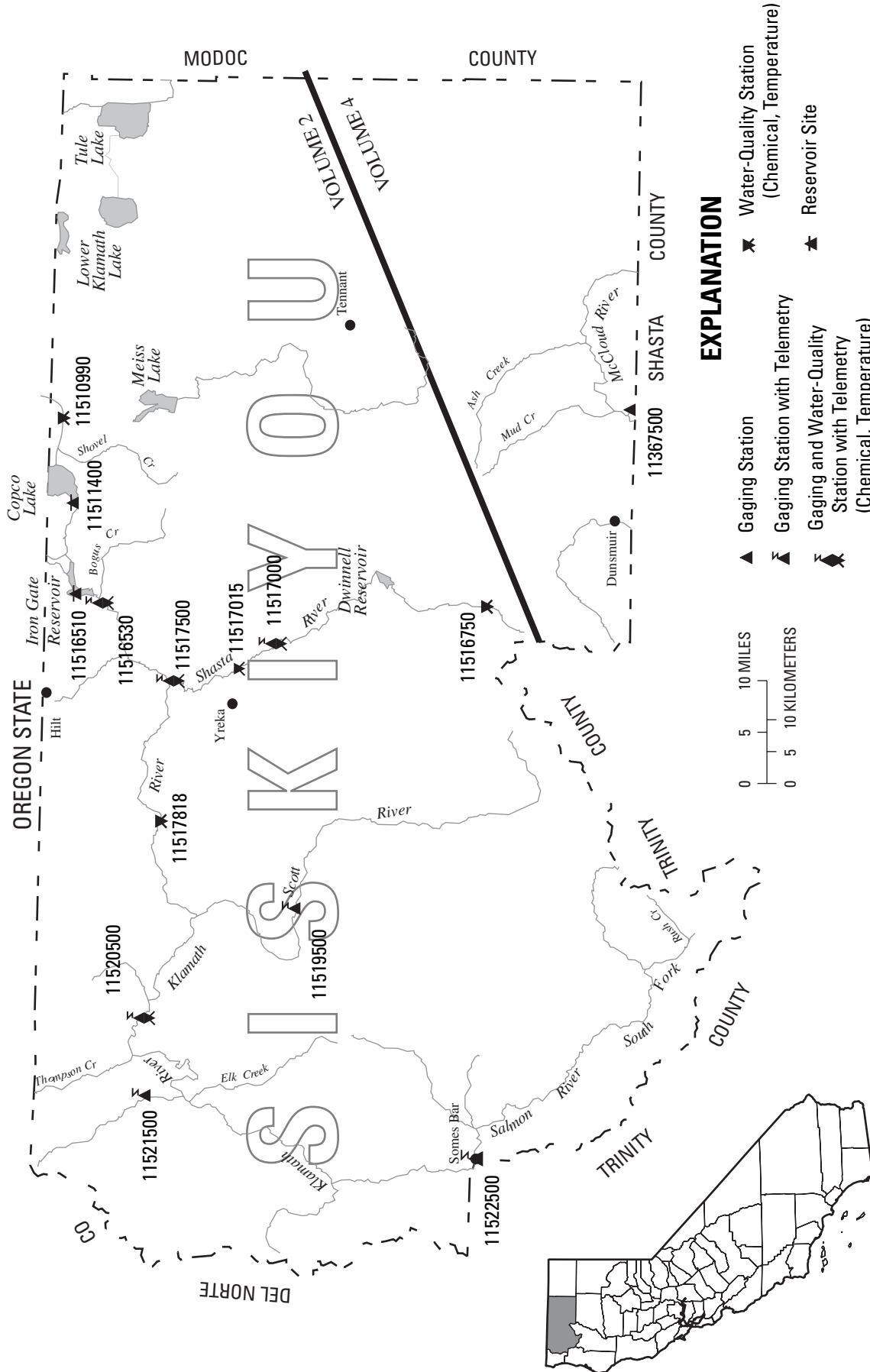
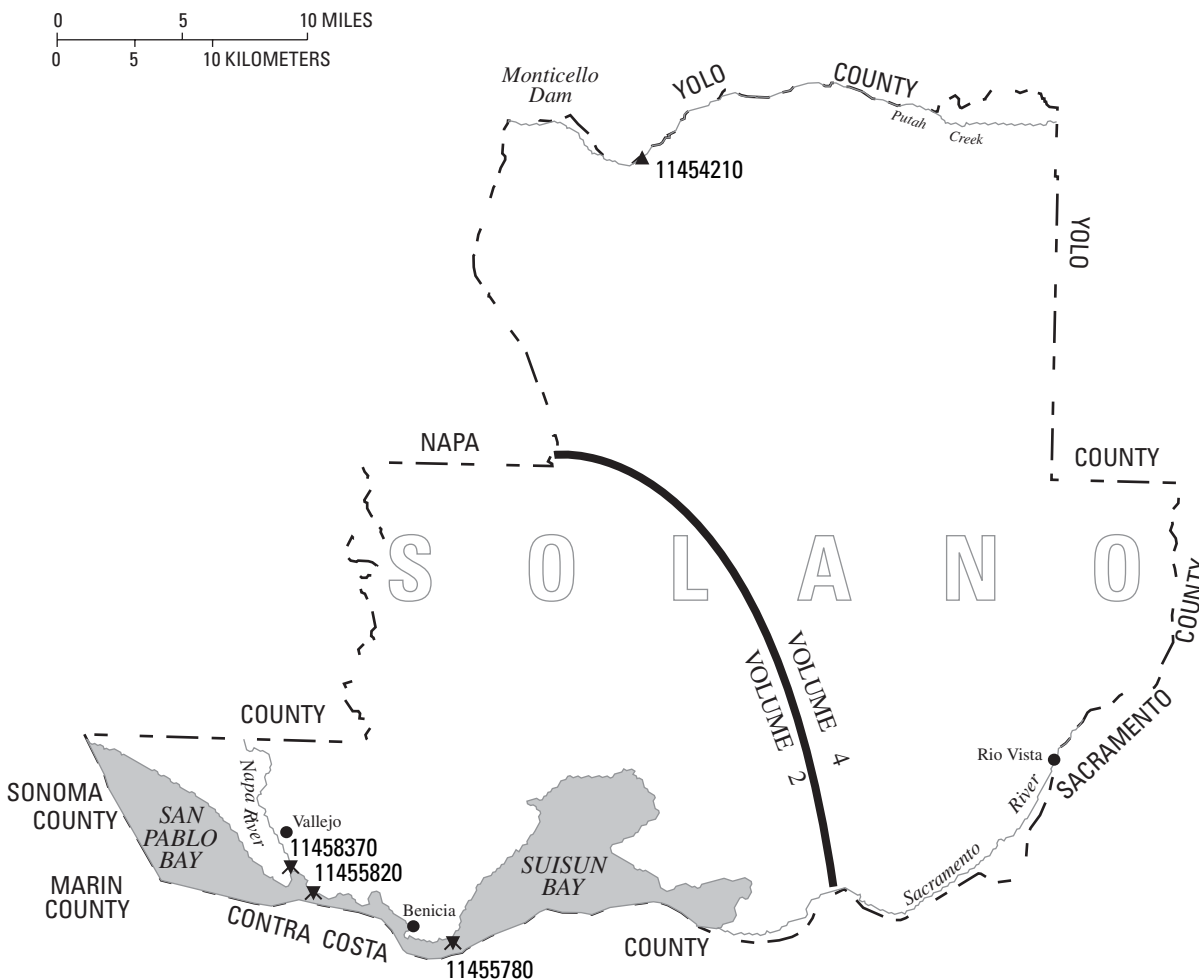


Figure 16. Location of discharge and water-quality stations in Siskiyou County. (NOTE: Records for station 11367500 published in volume 4.)

WATER RESOURCES DATA—CALIFORNIA, WATER YEAR 2004

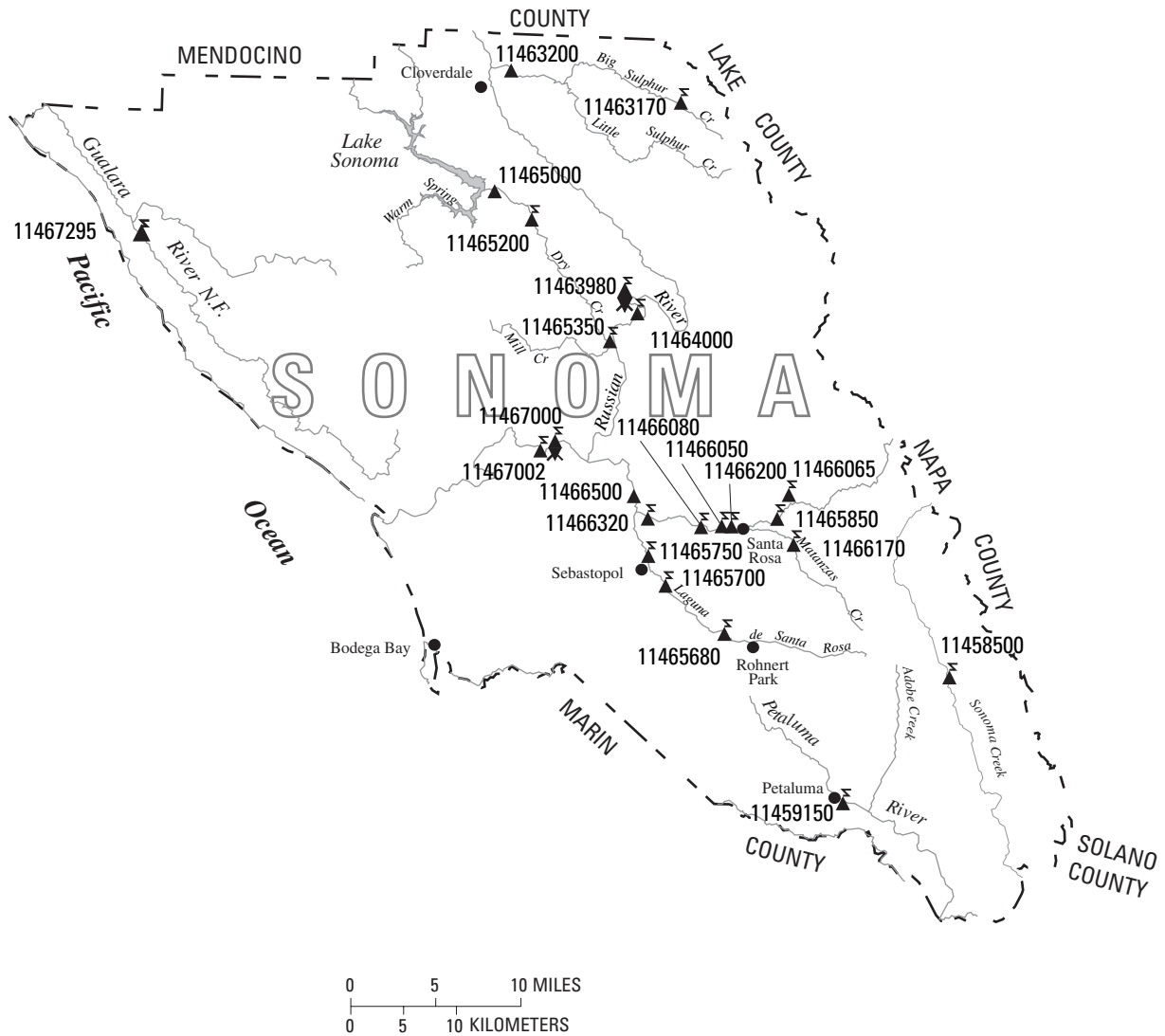


EXPLANATION

- ▲ Gaging Station
- ▼ Water-Quality Station (Chemical)
- ✕ Water-Quality Station (Chemical, Temperature)

Figure 17. Location of discharge and water-quality stations in Solano County.
 (NOTE: Records for station 11454210 published in volume 4.)

WATER RESOURCES DATA—CALIFORNIA, WATER YEAR 2004



EXPLANATION

- ▲ Gaging Station
- ▲ Gaging Station with Telemetry
- ◆ Gaging and Water-Quality Station with Telemetry (Temperature)

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

WATER RESOURCES DATA—CALIFORNIA, WATER YEAR 2004

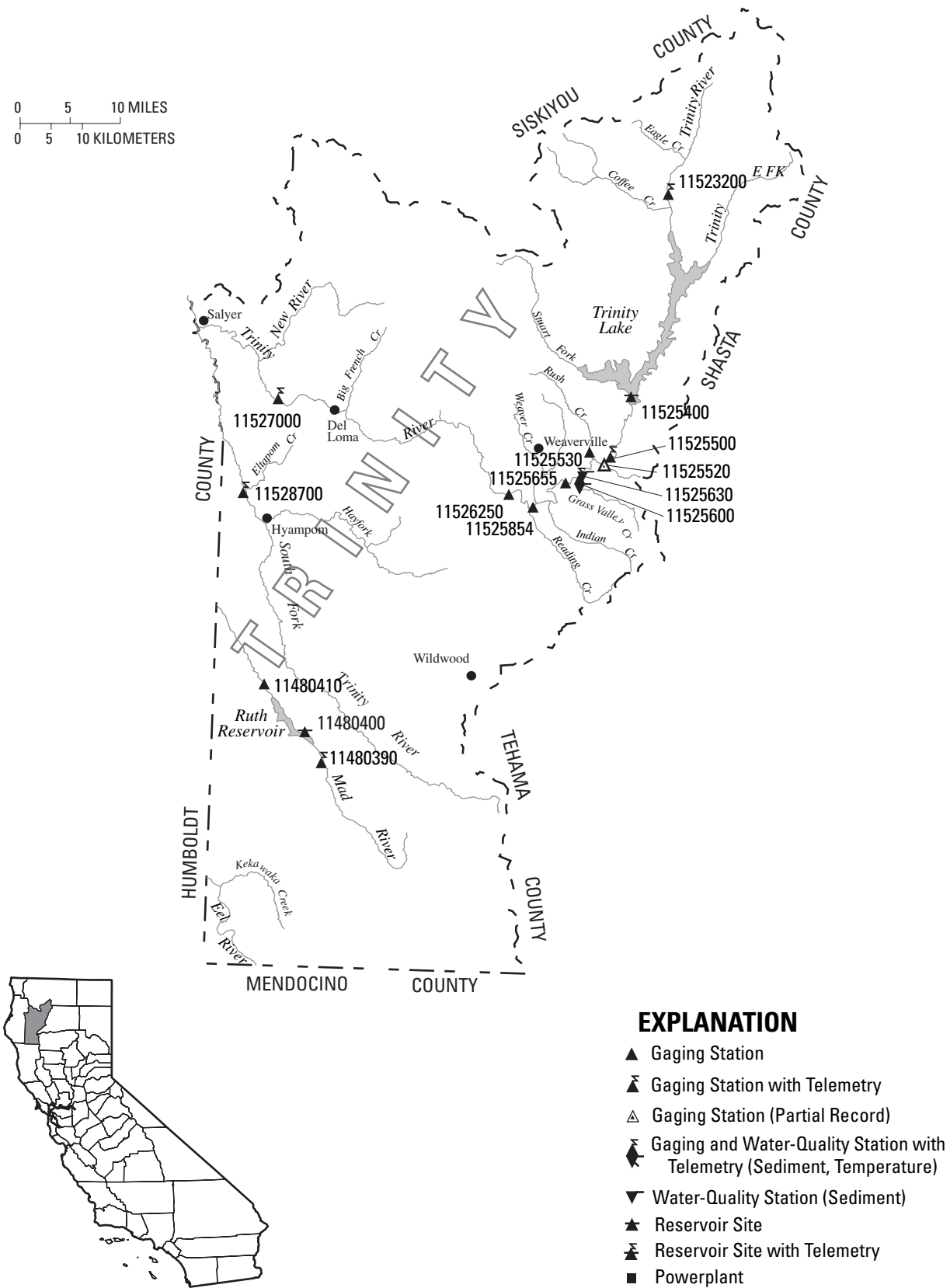


Figure 19. Location of discharge and water-quality stations in Trinity County.

WATER RESOURCES DATA—CALIFORNIA, WATER YEAR 2004

SURFACE-WATER-DISCHARGE AND SURFACE-WATER-QUALITY RECORDS

Remark Codes—Continued

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

<u>PRINTED OUTPUT</u>	<u>REMARK</u>
D	Biological organism count equal to or greater than 15 percent (dominant).
K	Results based on colony count outside the acceptance range (non-ideal colony count).
L	Biological organism count less than 0.5 percent (organism may be observed rather than counted).
ND	Not detected.
SS	Suspended-sediment data determined from a sample collected and processed according to National Water-Quality Assessment (NAWQA) program protocol.
&	Biological organism estimated as dominant.
*	Instantaneous discharge at the time of cross-sectional measurements.
**	Partial sampled width.
1	Laboratory value.
2	Laboratory fixed-end point titration.
†	Sample collected using an automatic sampler.

Dissolved Trace-Element Concentrations

NOTE: 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.

Data Precision

NOTE: Precision varies for different analytical methods used to determine the same constituent. The presence of trailing zeroes after the decimal in values printed in this report does not necessarily indicate that the method used for the determination is as precise as the level implied by the rightmost zero.

ARROYO GRANDE BASIN

11137900 HUASNA RIVER NEAR ARROYO GRANDE, CA

LOCATION.—Lat 35°04'40", long 120°22'15", in Huasna Grant, [San Luis Obispo County](#), Hydrologic Unit 18060007, on right bank 300 ft downstream from Huasna Creek, and 12 mi southeast of Arroyo Grande.

DRAINAGE AREA.—103 mi².

PERIOD OF RECORD.—June 1959 to September 1986, October 2003 to September 2004.

GAGE.—Water-stage recorder and crest-stage gage. Elevation of gage is 640 ft above NGVD of 1929, from topographic map.

REMARKS.—Records poor. No regulation upstream from station; extensive diversions by ranches for irrigation and for cattle ponds. Low flow affected by intermittent pumping for irrigation.

EXTREMES FOR PERIOD OF RECORD.—Maximum discharge, 21,000 ft³/s, Jan. 25, 1969, gage height, 15.90 ft, from rating curve extended above 1,300 ft³/s on basis of slope-area measurement of peak flow; no flow at times in some years.

EXTREMES FOR CURRENT YEAR.—Peak discharge greater than base discharge of 40 ft³/s, or maximum:

Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Feb. 25	1930	26	3.90

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.01	0.00	0.25	0.16	0.41	0.59	1.2	0.90	0.17	0.00	0.00	0.00
2	0.02	0.01	0.23	0.26	0.58	0.52	1.2	0.68	0.15	0.00	0.00	0.00
3	0.03	0.01	0.24	0.32	0.54	0.62	1.2	0.57	0.07	0.00	0.00	0.00
4	0.04	0.02	0.24	0.34	0.45	0.67	1.2	0.52	0.05	0.00	0.00	0.00
5	0.05	0.03	0.23	0.36	0.43	0.72	1.3	0.42	0.06	0.00	0.00	0.00
6	0.08	0.03	0.24	0.34	0.42	0.80	1.1	0.38	0.05	0.00	0.00	0.00
7	0.10	0.05	0.27	0.33	0.40	0.84	0.69	0.40	0.04	0.00	0.00	0.00
8	0.12	0.12	0.24	0.33	0.42	0.91	0.63	0.40	0.03	0.00	0.00	0.00
9	0.14	0.30	0.22	0.34	0.45	0.95	0.56	0.40	0.03	0.00	0.00	0.00
10	0.14	0.15	0.32	0.36	0.43	0.93	0.59	0.40	0.03	0.00	0.00	0.00
11	0.02	0.14	0.26	0.36	0.42	1.0	1.0	0.47	0.02	0.00	0.00	0.00
12	0.00	0.15	0.21	0.35	0.42	1.0	0.99	0.47	0.02	0.00	0.00	0.00
13	0.00	0.16	0.23	e0.37	0.37	1.1	0.66	0.40	0.02	0.00	0.00	0.00
14	0.00	0.16	0.29	e0.39	0.38	1.0	0.95	0.33	0.06	0.00	0.00	0.00
15	0.00	0.17	0.22	e0.41	0.37	1.1	0.27	0.05	0.22	0.00	0.00	0.00
16	0.00	0.17	0.21	0.43	0.36	1.1	0.69	0.00	0.41	0.00	0.00	0.00
17	0.00	0.16	0.22	0.45	0.36	1.1	0.90	0.00	0.54	0.00	0.00	0.00
18	0.00	0.18	0.20	0.44	0.58	1.1	0.57	0.00	0.54	0.00	0.00	0.00
19	0.00	0.18	0.20	0.48	0.41	1.1	0.80	0.00	0.59	0.00	0.00	0.00
20	0.00	0.20	0.23	0.45	0.45	1.1	1.2	0.00	0.40	0.00	0.00	0.00
21	0.00	0.22	0.24	0.44	0.45	1.1	1.2	0.00	0.32	0.00	0.00	0.00
22	0.00	0.21	0.24	0.44	0.68	1.1	0.70	0.00	0.26	0.00	0.00	0.00
23	0.00	0.22	0.29	0.44	e0.45	1.1	0.79	0.00	0.20	0.00	0.00	0.00
24	0.00	0.25	0.38	0.46	e0.45	1.2	0.62	0.00	0.14	0.00	0.00	0.00
25	0.00	0.28	0.53	0.45	e4.3	1.3	0.18	0.00	0.09	0.00	0.00	0.00
26	0.00	0.24	0.38	0.46	3.3	1.3	0.46	0.00	0.04	0.00	0.00	0.00
27	0.00	0.25	0.34	0.44	2.4	1.3	0.60	0.00	0.00	0.00	0.00	0.00
28	0.00	0.27	0.34	0.46	0.57	1.2	0.76	0.00	0.00	0.00	0.00	0.00
29	0.00	0.24	0.32	0.48	0.48	1.2	1.0	0.01	0.00	0.00	0.00	0.00
30	0.00	0.24	0.33	0.44	---	1.2	0.77	0.08	0.00	0.00	0.00	0.00
31	0.00	---	0.28	0.43	---	1.2	---	0.21	---	0.00	0.00	---
TOTAL	0.75	4.81	8.42	12.21	21.73	31.45	24.78	7.09	4.55	0.00	0.00	0.00
MEAN	0.02	0.16	0.27	0.39	0.75	1.01	0.83	0.23	0.15	0.00	0.00	0.00
MAX	0.14	0.30	0.53	0.48	4.3	1.3	1.3	0.90	0.59	0.00	0.00	0.00
MIN	0.00	0.00	0.20	0.16	0.36	0.52	0.18	0.00	0.00	0.00	0.00	0.00
AC-FT	1.5	9.5	17	24	43	62	49	14	9.0	0.00	0.00	0.00

e Estimated.

PACIFIC SLOPE BASINS IN CALIFORNIA

ARROYO GRANDE BASIN

11137900 HUASNA RIVER NEAR ARROYO GRANDE, CA—Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1959 - 2004, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	0.38	1.45	18.5	41.7	78.8	60.8	26.1	5.96	1.58	0.73	0.41	0.38
MAX	1.91	16.0	362	657	676	454	228	46.1	11.5	3.99	1.46	1.69
(WY)	1984	1983	1967	1969	1969	1983	1967	1967	1983	1983	1969	1978
MIN	0.00	0.00	0.00	0.07	0.06	0.11	0.06	0.00	0.00	0.00	0.00	0.00
(WY)	1962	1960	1962	1960	1977	1977	1961	1961	1961	1961	1959	1961

SUMMARY STATISTICS

FOR 2004 WATER YEAR

WATER YEARS 1959 - 2004

ANNUAL TOTAL	115.79		
ANNUAL MEAN	0.32	19.4	
HIGHEST ANNUAL MEAN		135	1969
LOWEST ANNUAL MEAN		0.08	1977
HIGHEST DAILY MEAN	4.3	Feb 25	8470
LOWEST DAILY MEAN	0.00	Oct 12	0.00
ANNUAL SEVEN-DAY MINIMUM	0.00	Oct 12	0.00
MAXIMUM PEAK FLOW	26	Feb 25	21000
MAXIMUM PEAK STAGE	3.90	Feb 25	15.90
INSTANTANEOUS LOW FLOW	0.00	Oct 11	
ANNUAL RUNOFF (AC-FT)	230		14080
10 PERCENT EXCEEDS	0.95		17
50 PERCENT EXCEEDS	0.20		0.60
90 PERCENT EXCEEDS	0.00		0.00

11141280 LOPEZ CREEK NEAR ARROYO GRANDE, CA

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

DRAINAGE AREA.—20.9 mi².

PERIOD OF RECORD.—July 1967 to current year.

CHEMICAL DATA: Water year 1977.

WATER TEMPERATURE: Water years 1968–72.

SEDIMENT DATA: Water years 1968–72.

GAGE.—Water-stage recorder and crest-stage gage. Elevation of gage is 580 ft above NGVD of 1929, from topographic map. Prior to Oct. 31, 1984, at site 0.4 mi downstream at different datum.

REMARKS.—Records fair. Small diversions upstream from station for domestic use.

EXTREMES FOR PERIOD OF RECORD.—Maximum discharge, 2,830 ft³/s, Jan. 25, 1969, gage height, 9.26 ft in gage well, 10.8 ft from floodmarks, site and datum then in use, from rating curve extended above 300 ft³/s, on basis of slope-area measurement of peak flow, maximum gage height, 11.21 ft, Mar. 5, 2001; minimum daily discharge, 0.30 ft³/s, Aug. 1, 1977.

EXTREMES FOR CURRENT YEAR.—Peak discharges greater than base discharge of 100 ft³/s, or maximum:

Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Feb. 25	1800	592	9.33

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.9	2.5	2.1	15	9.5	22	7.2	4.8	3.8	3.4	2.8	2.5
2	1.8	2.2	2.2	21	14	21	7.1	4.8	3.8	3.6	2.8	2.4
3	1.9	2.4	2.3	16	16	e20	6.9	4.7	4.0	3.6	2.9	2.4
4	e2.1	2.3	2.2	14	13	e18	6.8	4.6	3.7	3.6	2.8	2.4
5	e1.7	2.2	2.2	13	11	e17	6.6	4.5	3.6	3.5	2.7	2.4
6	e1.4	2.1	2.4	13	10	e16	6.7	4.6	3.5	3.5	2.7	2.4
7	1.4	2.2	2.9	13	10	e15	6.7	4.7	3.5	3.6	2.7	2.5
8	1.5	e3.4	2.2	12	11	e14	6.4	4.6	3.6	3.8	2.5	2.4
9	1.5	e3.7	2.2	12	11	e12	6.2	4.6	4.0	3.7	2.6	2.4
10	1.4	e2.1	3.3	12	11	11	6.1	4.5	4.0	3.7	2.5	2.3
11	1.4	1.9	2.1	12	10	11	6.0	4.6	3.8	3.5	2.5	2.3
12	1.4	2.0	2.0	12	10	11	5.9	4.6	3.7	3.2	2.6	2.3
13	1.3	2.1	1.9	13	10	11	5.8	4.5	3.6	3.2	2.6	2.4
14	1.3	2.0	3.0	12	9.8	10	5.7	4.3	3.6	3.2	2.6	2.4
15	1.5	2.2	2.0	13	9.7	11	5.7	4.3	3.7	3.1	2.6	2.4
16	1.5	2.0	1.8	13	9.4	9.6	5.7	4.3	3.7	3.0	2.5	2.5
17	1.4	2.0	1.8	13	9.1	9.2	5.7	4.4	3.8	3.1	2.5	2.6
18	1.4	2.1	1.9	12	16	9.5	5.8	4.4	3.7	3.1	2.6	2.6
19	1.4	2.1	1.8	12	13	9.6	5.7	4.3	3.6	3.1	2.7	2.7
20	1.5	2.1	2.1	12	12	9.3	5.6	4.4	3.8	3.0	2.7	3.1
21	1.4	2.1	2.1	12	11	8.9	5.6	4.4	3.7	2.9	2.7	2.9
22	1.4	2.3	2.2	11	24	8.8	5.5	4.3	3.7	3.0	2.7	2.8
23	1.4	2.3	3.2	11	22	8.1	5.4	4.4	3.7	3.0	2.8	2.8
24	1.4	2.4	5.6	12	14	8.0	5.4	4.3	3.6	3.0	2.7	2.9
25	1.4	2.3	15	13	120	8.0	5.3	4.4	3.5	2.9	2.7	3.0
26	1.5	2.3	11	13	77	8.7	5.2	4.3	3.3	2.9	2.6	3.0
27	1.5	2.3	11	12	30	8.0	5.1	4.3	3.3	2.9	2.5	3.1
28	1.5	2.3	11	11	23	7.7	5.0	4.2	3.6	2.9	2.6	3.2
29	1.7	2.3	12	11	21	7.4	5.0	4.2	3.3	3.0	2.6	3.6
30	1.8	2.4	14	10	---	7.3	5.1	4.1	3.4	2.9	2.6	4.1
31	2.4	---	13	10	---	7.2	---	4.0	---	2.8	2.5	---
TOTAL	48.1	68.6	144.5	391	567.5	355.3	176.9	137.4	109.6	99.7	81.9	80.8
MEAN	1.55	2.29	4.66	12.6	19.6	11.5	5.90	4.43	3.65	3.22	2.64	2.69
MAX	2.4	3.7	15	21	120	22	7.2	4.8	4.0	3.8	2.9	4.1
MIN	1.3	1.9	1.8	10	9.1	7.2	5.0	4.0	3.3	2.8	2.5	2.3
AC-FT	95	136	287	776	1130	705	351	273	217	198	162	160

e Estimated.

ARROYO GRANDE BASIN

11141280 LOPEZ CREEK NEAR ARROYO GRANDE, CA—Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1967 - 2004, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	3.02	4.38	7.21	20.6	30.1	27.0	13.7	7.63	4.93	3.63	3.02	2.81
MAX	9.12	13.6	34.2	145	169	133	65.2	46.1	21.3	14.7	10.2	9.40
(WY)	1984	1984	1997	1969	1998	1983	1983	1983	1998	1998	1998	1998
MIN	1.03	1.23	1.58	2.00	2.00	2.46	2.08	1.75	1.38	0.72	0.44	0.82
(WY)	1978	1978	1991	1991	1991	1977	1977	1990	1972	1977	1977	1977

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1967 - 2004	
ANNUAL TOTAL	1468.5		2261.3			
ANNUAL MEAN	4.02		6.18		10.6	
HIGHEST ANNUAL MEAN					37.3	
LOWEST ANNUAL MEAN					1.89	
HIGHEST DAILY MEAN	118	Mar 15	120	Feb 25	1360	Jan 25 1969
LOWEST DAILY MEAN	1.0	Sep 19	1.3	Oct 13	0.30	Aug 1 1977
ANNUAL SEVEN-DAY MINIMUM	1.1	Sep 17	1.4	Oct 8	0.34	Jul 28 1977
MAXIMUM PEAK FLOW			592	Feb 25	2830	Jan 25 1969
MAXIMUM PEAK STAGE			9.33	Feb 25	11.21	Mar 5 2001
INSTANTANEOUS LOW FLOW			1.1	Oct 6		
ANNUAL RUNOFF (AC-FT)	2910		4490		7650	
10 PERCENT EXCEEDS	6.8		13		18	
50 PERCENT EXCEEDS	2.6		3.6		3.8	
90 PERCENT EXCEEDS	1.2		2.0		1.6	

REVISION OF RECORDS FOR A DISCONTINUED STATION

11142500 ARROYO DE LA CRUZ NEAR SAN SIMEON, CA

LOCATION.—Lat 35°43'02", long 121°17'02", in Piedra Blanca Grant, [San Luis Obispo County](#), Hydrologic Unit 18060006, on right bank, 1.7 mi upstream from mouth, and 7 mi northwest of San Simeon.

DRAINAGE AREA.—41.2 mi².

PERIOD OF RECORD.—October 1950 to September 1979.

REVISED RECORDS.—WSP 1245: 1951. WSP 1929: Drainage area. WDR-CA-04-2: (M).

GAGE.—Water-stage recorder. Altitude of gage is 22 ft, from topographic map.

REMARKS.—No regulation or diversion above station.

EXTREMES FOR PERIOD OF RECORD.—Maximum discharge (revised), 23,200 ft³/s, Jan. 19, 1969, gage height, 13.45 ft, maximum gage height, 15.27 ft, from rating curve extended above 7,600 ft³/s on basis of slope-area measurements at gage heights 12.40 ft and 15.27 ft; no flow for long periods in each year.

REVISIONS.—The maximum discharge for water year 1967 has been revised to unknown, Dec. 6, 1966, gage height 15.27 ft.

11143000 BIG SUR RIVER NEAR BIG SUR, CA

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

DRAINAGE AREA.—46.5 mi².

PERIOD OF RECORD.—March 1950 to current year. Prior to October 1959, published as "Sur River at Big Sur."

CHEMICAL DATA: Water year 1977.

WATER TEMPERATURE: Water years 1966–79.

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

GAGE.—Water-stage recorder. Elevation of gage is 240 ft above NGVD of 1929, from topographic map. Prior to Oct. 1, 1951, nonrecording gage at site 0.9 mi downstream at different datum.

REMARKS.—Records good except for estimated daily discharges and flows during summer season, which are fair. No regulation or diversion upstream from station.

EXTREMES FOR PERIOD OF RECORD.—Maximum discharge, 10,700 ft³/s, Jan. 5, 1978, gage height, 14.30 ft, from rating curve extended above 6,800 ft³/s, on basis of slope-area measurement of peak flow; minimum daily, 2.6 ft³/s, Aug. 23, 1977, Sept. 9, Oct. 29, Nov. 5, 1990.

EXTREMES FOR CURRENT YEAR.—Peak discharges greater than base discharge of 1,500 ft³/s, or maximum:

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Dec. 29	2300	1,790	7.96	Feb. 25	1600	1,850	8.02

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	14	17	48	535	42	361	65	39	27	20	13	11
2	14	17	43	551	113	320	63	38	27	19	e13	11
3	14	21	27	330	160	283	62	37	26	18	e13	11
4	14	18	23	241	129	255	61	36	26	18	e13	11
5	14	17	27	190	110	231	59	36	25	18	13	11
6	14	17	27	157	96	211	59	36	25	17	13	12
7	14	17	38	135	87	193	57	36	25	17	12	12
8	14	18	30	116	80	179	56	36	25	e16	12	12
9	13	32	26	103	75	166	55	35	26	e16	12	12
10	13	21	61	94	71	156	53	35	26	e15	12	12
11	14	18	62	86	67	147	52	36	25	e15	12	12
12	14	18	41	80	64	139	51	35	24	e15	12	12
13	14	18	34	74	61	131	50	35	24	15	e12	12
14	14	18	71	70	59	122	50	34	23	13	e12	12
15	14	21	52	66	58	116	50	33	23	13	e12	12
16	14	20	39	63	72	110	49	33	23	13	e12	12
17	14	19	34	60	76	105	49	33	23	13	e12	13
18	14	18	31	57	477	101	49	33	24	12	12	13
19	14	18	38	55	300	97	48	33	24	13	12	13
20	14	18	75	54	236	93	49	32	23	13	12	15
21	14	17	88	51	208	90	48	32	22	13	13	14
22	13	16	61	49	193	86	46	32	22	13	12	13
23	13	17	61	48	171	83	45	32	22	13	13	13
24	13	17	248	50	164	80	43	32	e21	13	13	e12
25	13	17	241	47	816	83	43	33	e21	13	13	e12
26	13	17	169	45	847	87	42	32	e21	13	12	e12
27	13	17	111	48	613	76	40	32	e20	13	12	e12
28	13	17	84	48	485	73	39	31	e20	13	12	12
29	13	17	476	44	402	69	39	30	e20	13	11	12
30	14	21	793	43	---	68	39	29	20	13	12	e12
31	16	---	304	42	---	67	---	28	---	13	11	---
TOTAL	426	554	3463	3632	6332	4378	1511	1044	703	452	380	365
MEAN	13.7	18.5	112	117	218	141	50.4	33.7	23.4	14.6	12.3	12.2
MAX	16	32	793	551	847	361	65	39	27	20	13	15
MIN	13	16	23	42	42	67	39	28	20	12	11	11
AC-FT	845	1100	6870	7200	12560	8680	3000	2070	1390	897	754	724

e Estimated.

11143000 BIG SUR RIVER NEAR BIG SUR, CA—Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1950 - 2004, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	17.5	44.4	106	240	281	220	140	66.9	36.9	23.7	17.5	15.3
MAX	86.8	302	449	1047	1329	964	843	333	119	71.4	43.0	39.4
(WY)	1963	1951	1956	1997	1998	1983	1958	1983	1998	1998	1998	1983
MIN	5.08	4.97	7.52	8.27	11.4	16.8	9.15	8.70	6.17	4.94	3.80	4.52
(WY)	1991	1991	1991	1991	1977	1977	1977	1977	1977	1977	1977	1961

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1950 - 2004	
ANNUAL TOTAL	26450		23240			
ANNUAL MEAN	72.5		63.5		100	
HIGHEST ANNUAL MEAN					319	
LOWEST ANNUAL MEAN					10.0	
HIGHEST DAILY MEAN	857	Jan 10	847	Feb 26	4150	Mar 10 1995
LOWEST DAILY MEAN	13	Oct 9	11	Aug 29	2.6	Aug 23 1977
ANNUAL SEVEN-DAY MINIMUM	13	Oct 22	11	Aug 29	2.9	Nov 4 1990
MAXIMUM PEAK FLOW			1850	Feb 25	10700	Jan 5 1978
MAXIMUM PEAK STAGE			8.02	Feb 25	14.30	Jan 5 1978
INSTANTANEOUS LOW FLOW					2.6	Aug 23 1977
ANNUAL RUNOFF (AC-FT)	52460		46100		72540	
10 PERCENT EXCEEDS	141		141		225	
50 PERCENT EXCEEDS	48		27		29	
90 PERCENT EXCEEDS	15		12		10	

11143200 CARMEL RIVER AT ROBLES DEL RIO, CA

LOCATION.—Lat 36°28'28", long 121°43'40", in Los Laureles Grant, [Monterey County](#), Hydrologic Unit 18060012, on right bank, on downstream side of Rosie's Bridge at Robles del Rio, 0.2 mi downstream from Hitchcock Canyon, and 11 mi southeast of town of Carmel.

DRAINAGE AREA.—193 mi².

PERIOD OF RECORD.—August 1957 to current year.

REVISED RECORDS.—WSP 1715: Drainage area.

GAGE.—Water-stage recorder and crest-stage gage. Datum of gage is 268.57 ft above NGVD of 1929 (based on Monterey County benchmark). Prior to June 1981, at site 150 ft upstream at same datum.

REMARKS.—Records fair. Low flow regulated by Los Padres Reservoir 11 mi upstream, usable capacity, 1,480 acre-ft, and San Clemente Reservoir 4 mi upstream, usable capacity, 76 acre-ft. There is diversion from San Clemente Reservoir for municipal supply.

EXTREMES FOR PERIOD OF RECORD.—Maximum discharge, 16,000 ft³/s, Mar. 10, 1995, gage height, 12.90 ft; no flow at times in some years.

EXTREMES OUTSIDE PERIOD OF RECORD.—Flood of Dec. 23, 1955, reached a stage of 11.7 ft, from floodmarks, discharge, 6,930 ft³/s, from slope-area measurement of peak flow.

EXTREMES FOR CURRENT YEAR.—Peak discharges greater than base discharge of 1,200 ft³/s, or maximum:

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Dec. 30	0445	1,410	3.99	Feb. 25	1800	3,400	5.85

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.8	7.0	8.6	252	32	401	61	26	19	8.0	5.0	4.1
2	8.0	6.7	8.2	400	45	348	58	25	17	7.7	5.0	4.0
3	8.1	7.2	7.9	231	126	292	56	24	15	7.1	5.0	4.0
4	7.8	7.1	7.8	158	140	255	54	24	13	7.0	4.5	4.0
5	7.2	6.8	8.0	125	124	226	53	25	12	6.8	4.1	3.9
6	6.9	6.6	8.2	105	106	204	53	25	12	6.7	4.1	3.9
7	7.0	7.7	8.4	90	94	186	53	24	12	6.3	4.3	3.9
8	6.9	8.2	8.8	78	85	171	51	23	12	5.9	4.3	3.8
9	6.9	8.6	9.0	69	79	159	50	23	13	5.8	4.3	4.2
10	6.7	7.5	10	65	74	148	48	24	13	5.7	4.4	4.8
11	6.4	7.1	11	61	70	142	46	26	13	5.6	4.3	4.8
12	5.9	7.0	11	57	69	134	45	27	13	5.6	4.3	5.0
13	5.7	7.2	11	53	65	127	44	26	12	5.6	4.4	5.0
14	5.7	7.1	13	50	58	120	43	26	12	5.4	4.4	5.1
15	5.7	7.4	16	49	58	113	42	25	11	5.2	4.1	4.6
16	5.8	7.5	15	48	60	108	42	24	10	5.3	3.7	4.8
17	5.7	7.7	13	45	75	102	42	24	10	5.4	4.0	4.9
18	6.0	7.4	13	42	396	96	42	23	9.6	5.2	4.5	5.1
19	6.7	7.1	13	40	309	90	43	23	9.5	5.2	4.5	5.3
20	6.7	7.2	15	40	223	84	42	24	9.7	5.5	4.2	5.4
21	6.7	7.2	15	38	187	81	42	23	9.8	5.3	4.1	5.3
22	6.6	7.2	15	37	171	79	40	23	10	5.4	3.9	5.0
23	6.3	7.3	14	36	152	76	38	23	9.5	5.3	4.3	4.7
24	6.0	7.5	15	38	137	75	37	23	9.1	5.3	4.5	4.5
25	5.6	7.5	26	37	1240	75	35	23	9.8	5.6	4.4	4.9
26	5.6	7.4	33	35	1550	85	33	22	9.8	6.4	4.2	5.0
27	5.9	7.7	27	34	944	74	32	21	8.1	6.3	4.0	5.1
28	5.7	8.0	23	36	647	71	30	21	7.8	5.9	3.9	5.4
29	5.7	8.0	34	34	487	67	29	20	7.9	5.3	4.0	5.4
30	5.8	8.2	698	33	---	65	28	19	7.9	5.1	4.1	5.6
31	6.7	---	248	33	---	64	---	19	---	5.0	4.3	---
TOTAL	200.2	222.1	1363.9	2449	7803	4318	1312	728	337.5	181.9	133.1	141.5
MEAN	6.46	7.40	44.0	79.0	269	139	43.7	23.5	11.2	5.87	4.29	4.72
MAX	8.1	8.6	698	400	1550	401	61	27	19	8.0	5.0	5.6
MIN	5.6	6.6	7.8	33	32	64	28	19	7.8	5.0	3.7	3.8
AC-FT	397	441	2710	4860	15480	8560	2600	1440	669	361	264	281

11143200 CARMEL RIVER AT ROBLES DEL RIO, CA—Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1957 - 2004, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	3.38	14.4	63.4	201	325	267	160	58.1	21.1	7.81	3.23	2.82
MAX	23.6	135	480	899	2308	1855	1071	410	130	62.5	31.1	20.0
(WY)	1999	1984	1984	1997	1998	1983	1958	1983	1998	1998	1998	1998
MIN	0.00	0.00	0.00	0.26	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00
(WY)	1960	1960	1960	1991	1977	1977	1977	1977	1961	1959	1957	1957

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1957 - 2004	
ANNUAL TOTAL	22437.0		19190.2			
ANNUAL MEAN	61.5		52.4		92.7	
HIGHEST ANNUAL MEAN					442 1983	
LOWEST ANNUAL MEAN					0.05 1977	
HIGHEST DAILY MEAN	698	Dec 30	1550	Feb 26	9000	Feb 3 1998
LOWEST DAILY MEAN	5.6	Oct 25	3.7	Aug 16	0.00	Aug 1 1957
ANNUAL SEVEN-DAY MINIMUM	5.8	Oct 24	3.9	Sep 2	0.00	Aug 1 1957
MAXIMUM PEAK FLOW			3400	Feb 25	16000	Mar 10 1995
MAXIMUM PEAK STAGE			5.85	Feb 25	12.90	Mar 10 1995
ANNUAL RUNOFF (AC-FT)	44500		38060		67190	
10 PERCENT EXCEEDS	147		115		218	
50 PERCENT EXCEEDS	27		12		8.2	
90 PERCENT EXCEEDS	7.2		4.5		0.00	

11143250 CARMEL RIVER NEAR CARMEL, CA

LOCATION.—Lat 36°32'21", long 121°52'46", in Canada de la Segunda Grant, Monterey County, Hydrologic Unit 18060012, on left bank, 0.6 mi downstream from Potrero Canyon, and about 3 mi east of Carmel.

DRAINAGE AREA.—247 mi².

PERIOD OF RECORD.—August 1962 to current year.

CHEMICAL DATA: Water years 1954–66.

SEDIMENT DATA: Water years 1990, 1991–97.

GAGE.—Water-stage recorder. Elevation of gage is 40 ft above NGVD of 1929, from topographic map. Prior to Nov. 16, 1998, at site 1,650 ft upstream at different datum.

REMARKS.—Records fair. Low flow regulated by Los Padres Reservoir, usable capacity, 1,480 acre-ft, and San Clemente Reservoir, usable capacity, 76 acre-ft. There are diversions from San Clemente Reservoir for municipal supply.

EXTREMES FOR PERIOD OF RECORD.—Maximum discharge, 16,000 ft³/s, Mar. 10, 1995, gage height, 20.85 ft, at datum then in use; no flow for many days most years.

EXTREMES FOR CURRENT YEAR.—Peak discharges greater than base discharge of 1,200 ft³/s, or maximum:

Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Feb. 25	2200	3,380	10.87

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.00	0.00	0.00	201	24	493	61	14	6.2	0.00	0.00	0.00
2	0.00	0.00	0.00	411	30	434	58	13	5.7	0.00	0.00	0.00
3	0.00	0.00	0.00	259	107	348	55	12	4.8	0.00	0.00	0.00
4	0.00	0.00	0.00	186	157	294	51	11	4.1	0.00	0.00	0.00
5	0.00	0.00	0.00	141	142	257	50	11	3.1	0.00	0.00	0.00
6	0.00	0.00	0.00	113	118	229	48	11	2.5	0.00	0.00	0.00
7	0.00	0.00	0.00	95	102	210	47	11	1.8	0.00	0.00	0.00
8	0.00	0.00	0.00	80	90	196	45	10	0.83	0.00	0.00	0.00
9	0.00	0.00	0.00	70	82	183	42	10	0.27	0.00	0.00	0.00
10	0.00	0.00	0.00	62	74	170	40	11	1.4	0.00	0.00	0.00
11	0.00	0.00	0.00	57	68	158	37	11	1.3	0.00	0.00	0.00
12	0.00	0.00	0.00	52	63	149	35	12	0.01	0.00	0.00	0.00
13	0.00	0.00	0.00	49	59	141	34	12	0.00	0.00	0.00	0.00
14	0.00	0.00	0.00	45	56	131	33	11	0.00	0.00	0.00	0.00
15	0.00	0.00	0.00	44	53	121	31	10	0.00	0.00	0.00	0.00
16	0.00	0.00	0.00	42	52	115	30	10	0.00	0.00	0.00	0.00
17	0.00	0.00	0.00	41	61	109	29	9.8	0.00	0.00	0.00	0.00
18	0.00	0.00	0.00	37	289	102	29	9.7	0.00	0.00	0.00	0.00
19	0.00	0.00	0.00	36	336	96	30	9.3	0.00	0.00	0.00	0.00
20	0.00	0.00	0.00	34	245	90	29	9.4	0.00	0.00	0.00	0.00
21	0.00	0.00	0.00	32	208	86	28	9.2	0.00	0.00	0.00	0.00
22	0.00	0.00	0.00	30	189	84	26	9.2	0.00	0.00	0.00	0.00
23	0.00	0.00	0.00	29	169	80	25	9.7	0.00	0.00	0.00	0.00
24	0.00	0.00	0.00	31	151	76	22	10	0.00	0.00	0.00	0.00
25	0.00	0.00	0.00	30	912	74	20	9.7	0.00	0.00	0.00	0.00
26	0.00	0.00	0.00	28	2020	84	18	9.1	0.00	0.00	0.00	0.00
27	0.00	0.00	0.00	27	1230	76	16	8.6	0.00	0.00	0.00	0.00
28	0.00	0.00	0.00	27	828	72	15	8.1	0.00	0.00	0.00	0.00
29	0.00	0.00	0.00	27	598	67	15	7.8	0.00	0.00	0.00	0.00
30	0.00	0.00	416	26	---	63	14	7.3	0.00	0.00	0.00	0.00
31	0.00	---	249	25	---	62	---	7.2	---	0.00	0.00	---
TOTAL	0.00	0.00	665.00	2367	8513	4850	1013	314.1	32.01	0.00	0.00	0.00
MEAN	0.00	0.00	21.5	76.4	294	156	33.8	10.1	1.07	0.00	0.00	0.00
MAX	0.00	0.00	416	411	2020	493	61	14	6.2	0.00	0.00	0.00
MIN	0.00	0.00	0.00	25	24	62	14	7.2	0.00	0.00	0.00	0.00
AC-FT	0.00	0.00	1320	4690	16890	9620	2010	623	63	0.00	0.00	0.00

11143250 CARMEL RIVER NEAR CARMEL, CA—Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1962 - 2004, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	1.27	8.84	65.9	235	375	319	175	69.9	21.9	5.76	1.23	0.64
MAX	22.3	110	479	1034	2360	2196	1006	533	161	75.2	27.3	15.9
(WY)	1984	1984	1983	1969	1998	1983	1982	1983	1998	1998	1998	1998
MIN	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
(WY)	1965	1965	1969	1977	1977	1977	1977	1977	1968	1966	1964	1964

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1962 - 2004	
ANNUAL TOTAL	19842.10		17754.11			
ANNUAL MEAN	54.4		48.5		105	
HIGHEST ANNUAL MEAN					508	
LOWEST ANNUAL MEAN					0.00	
HIGHEST DAILY MEAN	449	Jan 1	2020	Feb 26	9050	Feb 3 1998
LOWEST DAILY MEAN	0.00	Jul 29	0.00	Oct 1	0.00	Oct 6 1962
ANNUAL SEVEN-DAY MINIMUM	0.00	Jul 29	0.00	Oct 1	0.00	Jul 9 1964
MAXIMUM PEAK FLOW			3380	Feb 25	16000	Mar 10 1995
MAXIMUM PEAK STAGE			10.87	Feb 25	20.85	Mar 10 1995
ANNUAL RUNOFF (AC-FT)	39360		35220		76230	
10 PERCENT EXCEEDS	150		119		263	
50 PERCENT EXCEEDS	11		0.00		1.1	
90 PERCENT EXCEEDS	0.00		0.00		0.00	

WATER RESOURCES DATA—CALIFORNIA, WATER YEAR 2004

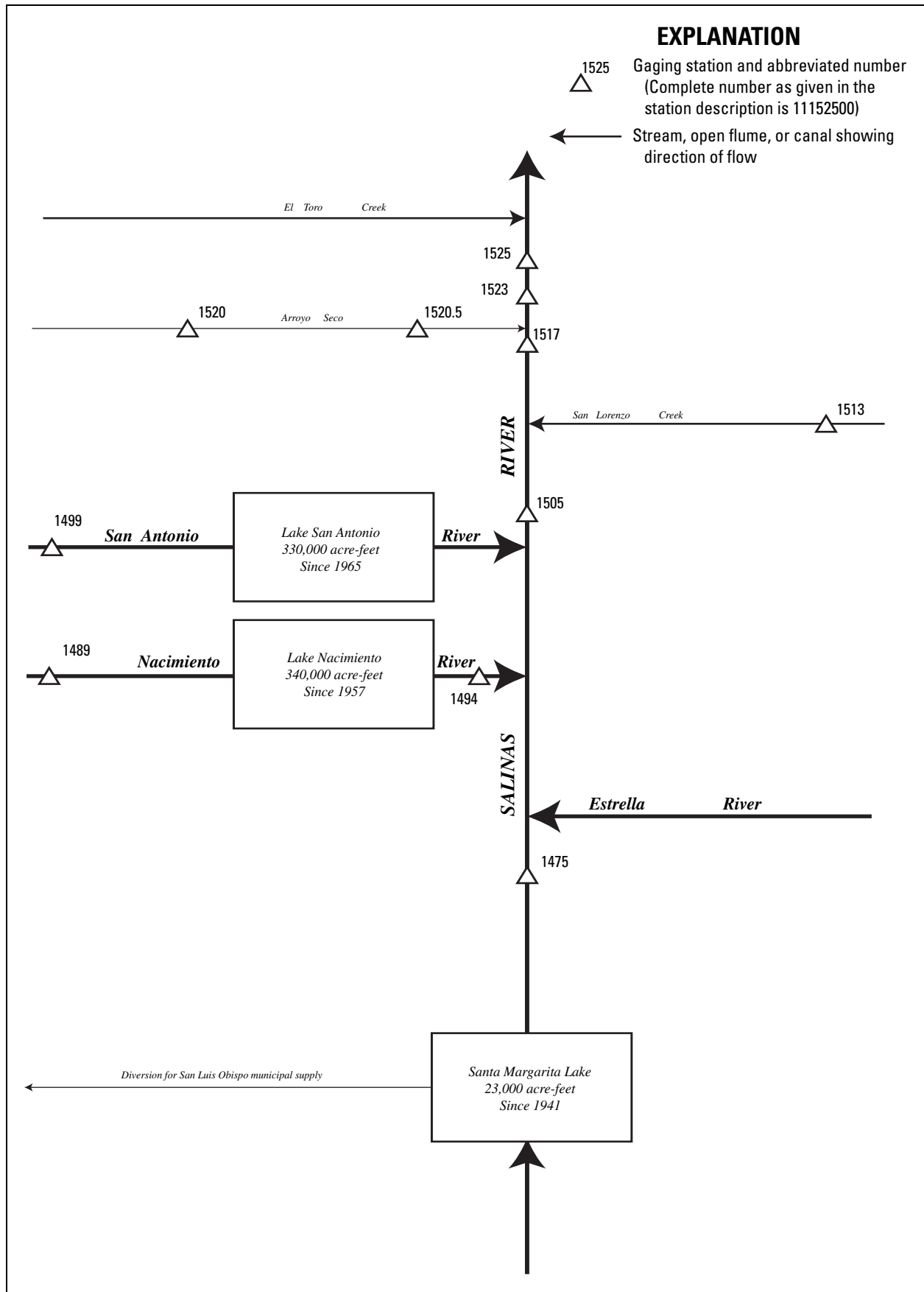


Figure 20. Diversions and storage in Salinas River Basin.

11147500 SALINAS RIVER AT PASO ROBLES, CA

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

DRAINAGE AREA.—390 mi².

PERIOD OF RECORD.—October 1939 to September 1965, October 1969 to current year.

CHEMICAL DATA: Water years 1963–66.

SEDIMENT DATA: June 1990.

REVISED RECORDS.—WSP 981: 1942.

GAGE.—Water-stage recorder and crest-stage gage. Datum of gage is 670.61 ft above NGVD of 1929. Prior to June 14, 1951, nonrecording gage at same site and datum.

REMARKS.—Records are fair except for estimated daily discharges, which are poor. Low flows regulated by Santa Margarita Lake, 32 mi upstream, beginning in December 1941, usable capacity, 23,000 acre-ft. Small diversions for irrigation upstream from station. See schematic diagram of [Salinas River Basin](#).

EXTREMES FOR PERIOD OF RECORD.—Maximum discharge, 28,400 ft³/s, Mar. 10, 1995, gage height, 22.99 ft; no flow for many days in each year.

EXTREMES OUTSIDE PERIOD OF RECORD.—Flood of Jan. 25, 1969, reached a stage of 23.8 ft, from floodmarks, discharge, 28,000 ft³/s.

EXTREMES FOR CURRENT YEAR.—Peak discharges greater than base discharge of 850 ft³/s, or maximum:

Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Feb. 25	2330	3,540	8.63

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.00	0.00	0.00	11	1.6	79	3.4	0.08	e0.60	e0.46	0.00	0.00
2	0.00	0.00	0.00	12	10	115	e3.1	0.08	e0.59	e0.44	0.00	0.00
3	0.00	0.00	0.00	1.8	5.5	78	e2.8	0.07	e0.58	e0.42	0.00	0.00
4	0.00	0.00	0.00	0.97	2.3	65	e2.6	0.16	e0.58	e0.40	0.00	0.00
5	0.00	0.00	0.00	0.81	1.6	56	e2.4	1.0	e0.58	e0.40	0.00	0.00
6	0.00	0.00	0.00	0.69	1.5	48	e2.3	2.8	e0.56	e0.38	0.00	0.00
7	0.00	0.00	0.00	0.64	1.4	43	e2.2	2.3	e0.56	e0.37	0.00	0.00
8	0.00	0.01	0.00	0.62	1.2	38	e2.1	0.30	e0.55	e0.36	0.00	0.00
9	0.00	0.00	0.00	0.65	1.2	35	e1.9	0.24	e0.55	e0.36	0.00	0.00
10	0.00	0.00	0.00	0.70	1.2	32	1.4	0.19	e0.54	e0.36	0.00	0.00
11	0.00	0.00	0.00	0.69	1.2	28	1.0	0.17	e0.54	e0.36	0.00	0.00
12	0.00	0.00	0.00	0.68	1.2	24	0.83	0.15	e0.54	e0.35	0.00	0.00
13	0.00	0.00	0.00	0.71	1.2	22	0.72	0.07	e0.54	e0.35	0.00	0.00
14	0.00	0.00	0.00	0.79	e1.2	20	0.60	e0.05	e0.54	e0.34	0.00	0.00
15	0.00	0.00	0.00	0.83	e1.2	18	0.55	e0.10	e0.54	e0.34	0.00	0.00
16	0.00	0.00	0.00	0.85	e1.2	15	0.53	e0.10	e0.54	e0.32	0.00	0.00
17	0.00	0.00	0.00	0.86	e1.2	14	1.5	e0.18	e0.55	e0.30	0.00	0.00
18	0.00	0.00	0.00	0.82	20	13	0.78	e0.20	e0.55	e0.28	0.00	0.00
19	0.00	0.00	0.00	0.84	24	12	0.48	e0.22	e0.55	e0.24	0.00	0.00
20	0.00	0.00	0.00	0.86	19	10	0.37	e0.30	e0.55	e0.20	0.00	0.00
21	0.00	0.00	0.00	0.81	15	9.3	0.38	e0.38	e0.54	e0.17	0.00	0.00
22	0.00	0.00	0.67	0.79	19	9.2	0.36	e0.40	e0.54	e0.15	0.00	0.00
23	0.00	0.00	6.4	0.82	18	7.7	0.32	e0.42	e0.54	e0.10	0.00	0.00
24	0.00	0.00	5.4	0.87	16	6.4	0.30	e0.50	e0.54	e0.05	0.00	0.00
25	0.00	0.00	13	0.77	409	5.6	0.23	e0.57	e0.53	e0.00	0.00	0.00
26	0.00	0.00	4.6	0.76	e1370	5.4	0.18	e0.60	e0.53	0.00	0.00	0.00
27	0.00	0.00	2.4	0.81	e400	5.4	0.15	e0.65	e0.53	0.00	0.00	0.00
28	0.00	0.00	1.9	0.93	194	4.9	0.12	e0.72	e0.52	0.00	0.00	0.00
29	0.00	0.00	2.6	1.6	109	4.0	0.12	e0.70	e0.50	0.00	0.00	0.00
30	0.00	0.00	5.3	1.7	---	3.3	0.10	e0.68	e0.50	0.00	0.00	0.00
31	0.00	---	1.9	1.6	---	2.6	---	e0.64	---	0.00	0.00	---
TOTAL	0.00	0.01	44.17	49.27	2648.9	828.8	33.82	15.02	16.40	7.50	0.00	0.00
MEAN	0.00	0.00	1.42	1.59	91.3	26.7	1.13	0.48	0.55	0.24	0.00	0.00
MAX	0.00	0.01	13	12	1370	115	3.4	2.8	0.60	0.46	0.00	0.00
MIN	0.00	0.00	0.00	0.62	1.2	2.6	0.10	0.05	0.50	0.00	0.00	0.00
AC-FT	0.00	0.02	88	98	5250	1640	67	30	33	15	0.00	0.00

e Estimated.

SALINAS RIVER BASIN

11147500 SALINAS RIVER AT PASO ROBLES, CA—Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1940 - 2004, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	2.32	5.15	50.4	232	398	359	153	26.0	3.28	0.27	0.05	0.83
MAX	117	86.0	581	2138	2884	2410	1980	338	64.2	4.84	1.91	44.0
(WY)	1943	1983	1983	1997	1998	1995	1958	1998	1998	1941	1942	1942
MIN	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
(WY)	1941	1940	1940	1948	1948	1961	1961	1959	1947	1940	1940	1940

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1940 - 2004	
ANNUAL TOTAL	7265.20		3643.89			
ANNUAL MEAN	19.9		9.96		101	
HIGHEST ANNUAL MEAN					526	
LOWEST ANNUAL MEAN					0.00	
HIGHEST DAILY MEAN	948	Mar 15	1370	Feb 26	19600	Mar 10 1995
LOWEST DAILY MEAN	0.00	Jun 26	0.00	Oct 1	0.00	Nov 1 1939
ANNUAL SEVEN-DAY MINIMUM	0.00	Jun 26	0.00	Oct 1	0.00	Nov 1 1939
MAXIMUM PEAK FLOW			3540		28400	
MAXIMUM PEAK STAGE			8.63		22.99	
ANNUAL RUNOFF (AC-FT)	14410		7230		73210	
10 PERCENT EXCEEDS	48		9.5		153	
50 PERCENT EXCEEDS	0.01		0.32		0.00	
90 PERCENT EXCEEDS	0.00		0.00		0.00	

SALINAS RIVER BASIN

11148900 NACIMIENTO RIVER BELOW SAPAQUE CREEK, NEAR BRYSON, CA

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

DRAINAGE AREA.—162 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.—October 1971 to current year.

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

GAGE.—Water-stage recorder and crest-stage gage. Elevation of gage is 800 ft above NGVD of 1929, from topographic map.

REMARKS.—Records good except flows below 5 ft³/s, which are fair. No storage or diversion upstream from station. See schematic diagram of [Salinas River Basin](#).

EXTREMES FOR PERIOD OF RECORD.—Maximum discharge, 57,600 ft³/s, Jan. 14, 1993, gage height, 32.14 ft, from rating curve extended above 7,900 ft³/s, on basis of slope-area measurement at gage height 32.00 ft, maximum gage height, 35.15 ft, Mar. 10, 1995; no flow for many days in each year.

EXTREMES FOR CURRENT YEAR.—Peak discharges greater than base discharge of 10,000 ft³/s, or maximum:

Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Feb. 25	1715	16,000	22.19

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.00	0.00	0.00	536	24	356	61	8.4	1.7	0.00	0.00	0.00
2	0.00	0.00	0.00	1010	167	346	58	8.1	1.5	0.00	0.00	0.00
3	0.00	0.00	0.00	347	299	282	54	7.6	1.3	0.00	0.00	0.00
4	0.00	0.00	0.00	202	152	253	51	6.6	1.1	0.00	0.00	0.00
5	0.00	0.00	0.00	145	113	228	49	5.7	0.93	0.00	0.00	0.00
6	0.00	0.00	0.00	117	94	208	48	5.3	0.78	0.00	0.00	0.00
7	0.00	0.00	0.00	99	81	194	46	5.0	0.65	0.00	0.00	0.00
8	0.00	0.00	0.00	86	72	182	45	4.9	0.55	0.00	0.00	0.00
9	0.00	0.00	0.00	75	65	171	42	4.8	0.46	0.00	0.00	0.00
10	0.00	0.00	0.64	66	61	162	42	4.7	0.39	0.00	0.00	0.00
11	0.00	0.00	0.46	61	56	152	36	4.6	0.30	0.00	0.00	0.00
12	0.00	0.00	0.28	56	52	144	31	4.5	0.21	0.00	0.00	0.00
13	0.00	0.00	0.18	52	49	137	29	4.5	0.16	0.00	0.00	0.00
14	0.00	0.00	0.48	48	47	128	29	4.3	0.12	0.00	0.00	0.00
15	0.00	0.00	2.8	45	45	121	29	4.1	0.06	0.00	0.00	0.00
16	0.00	0.00	21	42	43	116	29	3.7	0.00	0.00	0.00	0.00
17	0.00	0.00	11	39	50	112	29	3.4	0.00	0.00	0.00	0.00
18	0.00	0.00	8.0	37	429	107	29	3.2	0.00	0.00	0.00	0.00
19	0.00	0.00	6.6	35	314	101	29	3.0	0.00	0.00	0.00	0.00
20	0.00	0.00	35	33	196	96	29	3.0	0.00	0.00	0.00	0.00
21	0.00	0.00	52	32	165	92	28	2.9	0.00	0.00	0.00	0.00
22	0.00	0.00	49	31	186	88	27	2.8	0.00	0.00	0.00	0.00
23	0.00	0.00	37	29	154	85	25	2.8	0.00	0.00	0.00	0.00
24	0.00	0.00	439	29	134	80	22	2.7	0.00	0.00	0.00	0.00
25	0.00	0.00	370	29	5240	76	19	2.6	0.00	0.00	0.00	0.00
26	0.00	0.00	239	27	2250	88	16	2.7	0.00	0.00	0.00	0.00
27	0.00	0.00	119	26	790	84	13	2.7	0.00	0.00	0.00	0.00
28	0.00	0.00	81	30	516	73	11	2.5	0.00	0.00	0.00	0.00
29	0.00	0.00	446	30	392	69	9.4	2.4	0.00	0.00	0.00	0.00
30	0.00	0.00	1900	27	---	66	8.7	2.2	0.00	0.00	0.00	0.00
31	0.00	---	336	26	---	64	---	2.0	---	0.00	0.00	---
TOTAL	0.00	0.00	4154.44	3447	12236	4461	974.1	127.7	10.21	0.00	0.00	0.00
MEAN	0.000	0.000	134	111	422	144	32.5	4.12	0.34	0.000	0.000	0.000
MAX	0.00	0.00	1900	1010	5240	356	61	8.4	1.7	0.00	0.00	0.00
MIN	0.00	0.00	0.00	26	24	64	8.7	2.0	0.00	0.00	0.00	0.00
AC-FT	0.00	0.00	8240	6840	24270	8850	1930	253	20	0.00	0.00	0.00

SALINAS RIVER BASIN

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

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1971 - 2004, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	0.61	52.8	187	536	717	481	154	46.2	10.9	2.10	0.22	0.045
MAX	4.90	413	911	2440	3545	2048	1142	318	63.3	17.7	3.03	0.77
(WY)	1973	1973	1983	1978	1998	1983	1982	1983	1998	1998	1998	1983
MIN	0.000	0.000	0.000	0.000	3.82	16.0	4.20	1.61	0.11	0.000	0.000	0.000
(WY)	1972	1978	1991	1991	1991	1977	1977	1990	1977	1972	1972	1972

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1971 - 2004	
ANNUAL TOTAL	34278.79		25410.45			
ANNUAL MEAN	93.9		69.4		180	
HIGHEST ANNUAL MEAN					623 1983	
LOWEST ANNUAL MEAN					5.74 1977	
HIGHEST DAILY MEAN	1900	Dec 30	5240	Feb 25	24400	Mar 10 1995
LOWEST DAILY MEAN	0.00	Jul 23	0.00	Oct 1	0.00	Sep 16 1971
ANNUAL SEVEN-DAY MINIMUM	0.00	Jul 23	0.00	Oct 1	0.00	Sep 16 1971
MAXIMUM PEAK FLOW			16000	Feb 25	57600	Jan 14 1993
MAXIMUM PEAK STAGE			22.19	Feb 25	35.15	Mar 10 1995
ANNUAL RUNOFF (AC-FT)	67990		50400		130200	
10 PERCENT EXCEEDS	241		144		320	
50 PERCENT EXCEEDS	11		0.29		6.5	
90 PERCENT EXCEEDS	0.00		0.00		0.00	

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

WATER-QUALITY RECORDS

PERIOD OF RECORD.—Water years 1972 to current year. Published as station 11148800 "near Bryson" in water years 1958–59, 1961–71.

WATER TEMPERATURE: Water years 1972–73.

SEDIMENT DATA: Water years 1972 to current year.

PERIOD OF DAILY RECORD.—October 1971 to September 1973.

WATER TEMPERATURE: October 1971 to September 1973.

SUSPENDED-SEDIMENT DISCHARGE: October 1971 to September 1973.

REMARKS.—Zero bed-load discharge observed for flows less than 44 ft³/s during current year. Bedload begins moving at approximately 250 ft³/s.

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Time	Instan- taneous dis- charge, cfs (00061)	Temper- ature, water, deg C (00010)	Sus- pended sedi- ment concen- tration mg/L (80154)	Sus- pended sedi- ment load, tons/d (80155)	Suspnd. sedi- ment, sieve diametr percent <.063mm (70331)
JAN						
15...	1040	44	10.0	2	.24	69
FEB						
18...	1440	766	12.5	71	156	28
APR						
28...	1120	12	22.0	2	.06	--
MAY						
21...	1050	2.9	22.0	6	.05	--

PARTICLE-SIZE DISTRIBUTION OF SURFACE BED MATERIAL, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Time	Number of sam- pling points, count (00063)	Instan- taneous dis- charge, cfs (00061)	Temper- ature, water, deg C (00010)	Bed sedi- ment, dry svd sve dia percent <.125mm (80165)	Bed sedi- ment, dry svd sve dia percent <.25mm (80166)	Bed sedi- ment, dry svd sve dia percent <.5 mm (80167)	
JUN								
16...	1328	1	.00	29.5	1	3	19	
16...	1330	1	.00	29.5	--	2	19	
16...	1331	1	.00	29.5	--	1	9	
16...	1332	1	.00	29.5	--	1	10	
16...	1333	1	.00	29.5	--	--	5	
16...	1334	1	.00	29.5	--	1	6	
16...	1335	1	.00	29.5	--	1	10	
16...	1336	1	.00	29.5	--	--	9	
16...	1337	1	.00	29.5	--	1	8	
16...	1338	1	.00	29.5	--	1	8	
16...	1339	1	.00	29.5	--	1	8	
16...	1340	1	.00	29.5	--	1	9	
Date		Bed sedi- ment, dry svd sve dia percent (80168)	Bed sedi- ment, dry svd sve dia percent (80169)	Bed sedi- ment, dry svd sve dia percent (80170)	Bed sedi- ment, dry svd sve dia percent (80171)	Bed sedi- ment, dry svd sve dia percent (80172)	Bed sedi- ment, dry svd sve dia percent (80173)	Bed sedi- ment, dry svd sve dia percent (80174)
JUN								
16...	38	44	55	70	90	100	--	--
16...	37	44	51	64	80	100	--	--
16...	24	32	43	60	82	100	--	--
16...	25	35	49	67	87	100	--	--
16...	12	19	35	57	73	100	--	--
16...	19	27	38	52	74	92	100	100
16...	28	39	56	72	90	100	--	--
16...	28	40	54	67	78	86	100	100
16...	28	46	66	78	89	100	--	--
16...	26	36	52	70	85	100	--	--
16...	29	45	61	71	85	100	--	--
16...	30	46	67	81	91	100	--	--

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

PARTICLE-SIZE DISTRIBUTION OF BEDLOAD, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Time	Sam- pling method, code (82398)	Sampler type, code (84164)	Bag mesh size, sampler mm (30333)	Tether line used in samplng (yes=1) code (04117)	Startng time, 24 hour clock, hr:min (82073)	Ending time, 24 hour clock, hr:min (82074)	Rest time on bed for bed load sample, seconds (04120)	Hori- zontal width of verti- cal, feet (04121)	Compstd samples in x-sec bedload measmnt number (04118)	Verti- cals in com- posite sample, number (04119)
FEB											
18...	1525	1000	1100	.250	0	1520	1530	20	7.0	2	14
18...	1545	1000	1100	.250	0	1540	1550	20	7.0	2	14
Date	Number of sam- pling points, count (00063)	Loca- tion in X-sect. looking dwnstrm ft from bank (00009)	Instan- taneous dis- charge, cfs (00061)	Temper- ature, deg C (00010)	Bedload sedimnt dschrge average unit t/d/ft (04122)	Bedload sedi- ment dis- charge, tons/d (80225)	Bedload sedi- ment, sieve diametr percent <.5 mm (80229)	Bedload sedi- ment, sieve diametr percent <1 mm (80230)	Bedload sedi- ment, sieve diametr percent <2 mm (80231)	Bedload sedi- ment, sieve diametr percent <4 mm (80232)	Bedload sedi- ment, sieve diametr percent <8 mm (80233)
FEB											
18...	14	4.00	730	12.5	.52	66	12	60	93	99	100
18...	14	4.00	730	12.5	.82	66	14	70	96	99	100

11149400 NACIMIENTO RIVER BELOW NACIMIENTO DAM, NEAR BRADLEY, CA

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

DRAINAGE AREA.—329 mi².

PERIOD OF RECORD.—October 1957 to current year.

CHEMICAL DATA: Water years 1963–66.

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

GAGE.—Water-stage recorder. Elevation of gage is 597 ft above NGVD of 1929, surveyed from US Army Corps of Engineers bench mark.

REMARKS.—Records fair. Flow regulated by Lake Nacimiento (formerly Nacimiento Reservoir) beginning in February 1957, usable capacity, 340,000 acre-ft. No diversion upstream from station. See schematic diagram of Salinas River Basin.

EXTREMES FOR PERIOD OF RECORD.—Maximum discharge, 7,340 ft³/s, Feb. 25, 1969, gage height, 10.92 ft; no flow at times in 1958–63, 1965, 1977, 1990.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	25	388	394	24	148	23	31	173	192	279	385	24
2	25	389	392	24	138	23	25	175	169	265	386	23
3	25	388	394	22	144	23	25	173	152	257	386	24
4	25	387	393	21	144	24	26	189	152	281	386	24
5	25	388	353	24	148	24	26	196	143	271	386	24
6	25	388	324	24	147	24	25	196	136	186	382	24
7	27	388	325	24	147	25	26	195	149	146	385	24
8	27	389	247	25	136	25	26	196	149	146	385	23
9	25	390	99	24	94	25	25	196	150	146	386	23
10	25	390	26	25	23	24	25	196	152	132	386	23
11	25	390	25	25	24	25	26	196	152	139	385	23
12	25	390	25	24	23	24	26	196	151	142	384	24
13	e25	390	25	24	20	24	25	196	142	140	384	24
14	e25	390	25	24	19	25	26	196	138	141	384	24
15	e25	390	25	23	19	25	26	196	145	258	385	24
16	e25	390	25	23	19	25	25	196	148	328	384	24
17	e25	390	32	22	19	25	26	181	149	386	383	23
18	e25	390	109	22	20	25	25	160	149	384	384	23
19	e25	390	154	22	20	25	25	149	149	388	384	23
20	e25	390	154	42	20	25	24	149	149	389	384	23
21	e25	391	154	52	20	25	25	149	149	389	384	23
22	26	391	153	48	20	25	107	149	149	390	385	24
23	25	391	78	e150	20	25	168	149	149	390	386	24
24	25	390	24	e150	20	25	169	149	145	389	386	24
25	25	391	24	e150	23	25	171	149	146	388	300	24
26	25	392	24	e150	22	25	171	172	138	387	169	24
27	25	392	24	e150	22	25	171	195	130	387	93	24
28	74	391	22	146	23	25	172	196	148	387	24	24
29	238	392	24	149	24	25	172	195	163	387	24	24
30	349	394	24	147	---	25	172	178	266	350	24	24
31	385	---	24	147	---	25	---	162	---	384	24	---
TOTAL	1726	11700	4121	1927	1666	763	2012	5543	4599	9032	9893	710
MEAN	55.7	390	133	62.2	57.4	24.6	67.1	179	153	291	319	23.7
MAX	385	394	394	150	148	25	172	196	266	390	386	24
MIN	25	387	22	21	19	23	24	149	130	132	24	23
AC-FT	3420	23210	8170	3820	3300	1510	3990	10990	9120	17910	19620	1410

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1958 - 2004, BY WATER YEAR (WY)

	214	138	120	258	557	266	145	212	297	379	397	338
MEAN	214	138	120	258	557	266	145	212	297	379	397	338
MAX	501	618	1629	3341	4830	3016	1501	1067	581	662	802	684
(WY)	1983	1983	1983	1997	1998	1969	1958	1983	1969	1958	1967	1995
MIN	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.16	2.44	0.00	0.00
(WY)	1958	1958	1958	1962	1962	1961	1961	1961	1990	1990	1961	1961

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1958 - 2004	
ANNUAL TOTAL	75583		53692			
ANNUAL MEAN	207		147		275	
HIGHEST ANNUAL MEAN					1038	
LOWEST ANNUAL MEAN					3.43	
HIGHEST DAILY MEAN	409		394		6770	
LOWEST DAILY MEAN	10		19		0.00	
ANNUAL SEVEN-DAY MINIMUM	12		19		0.00	
MAXIMUM PEAK FLOW			394		7340	
MAXIMUM PEAK STAGE			3.65		10.92	
ANNUAL RUNOFF (AC-FT)	149900		106500		199300	
10 PERCENT EXCEEDS	404		388		495	
50 PERCENT EXCEEDS	235		138		131	
90 PERCENT EXCEEDS	21		23		2.3	

e Estimated.

11149900 SAN ANTONIO RIVER NEAR LOCKWOOD, CA

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

DRAINAGE AREA.—217 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.—October 1965 to current year.

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

GAGE.—Water-stage recorder and crest-stage gage. Datum of gage is 795.00 ft above NGVD of 1929. Prior to Aug. 28, 1975, at datum 5.00 ft higher.

REMARKS.—Records good. No regulation; some pumping upstream from station. See schematic diagram of [Salinas River Basin](#).

EXTREMES FOR PERIOD OF RECORD.—Maximum discharge, 23,600 ft³/s, Mar. 10, 1995, gage height, 14.25 ft, current datum, from rating curve extended above 8,000 ft³/s, on basis of contracted-opening measurement at gage height 12.6 ft; no flow for many days in each year.

EXTREMES FOR CURRENT YEAR.—Peak discharges greater than base discharge of 1,500 ft³/s, or maximum:

Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Feb. 26	0015	3,910	9.61

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.00	0.00	0.00	149	29	303	40	10	0.00	0.00	0.00	0.00
2	0.00	0.00	0.00	572	31	285	38	9.3	0.00	0.00	0.00	0.00
3	0.00	0.00	0.00	292	72	238	37	8.8	0.00	0.00	0.00	0.00
4	0.00	0.00	0.00	179	80	207	36	7.9	0.00	0.00	0.00	0.00
5	0.00	0.00	0.00	130	67	184	34	7.2	0.00	0.00	0.00	0.00
6	0.00	0.00	0.00	109	59	166	33	6.8	0.00	0.00	0.00	0.00
7	0.00	0.00	0.00	96	54	149	32	6.4	0.00	0.00	0.00	0.00
8	0.00	0.00	0.00	86	50	137	31	6.0	0.00	0.00	0.00	0.00
9	0.00	0.00	0.00	77	47	126	30	5.5	0.00	0.00	0.00	0.00
10	0.00	0.00	0.00	71	44	116	29	5.2	0.00	0.00	0.00	0.00
11	0.00	0.00	0.00	65	42	107	27	5.0	0.00	0.00	0.00	0.00
12	0.00	0.00	0.00	60	41	96	26	4.7	0.00	0.00	0.00	0.00
13	0.00	0.00	0.00	57	39	88	24	4.4	0.00	0.00	0.00	0.00
14	0.00	0.00	0.00	55	38	77	24	4.0	0.00	0.00	0.00	0.00
15	0.00	0.00	0.00	53	38	70	24	3.6	0.00	0.00	0.00	0.00
16	0.00	0.00	0.00	50	37	66	23	e3.2	0.00	0.00	0.00	0.00
17	0.00	0.00	0.00	47	41	63	23	e3.0	0.00	0.00	0.00	0.00
18	0.00	0.00	0.00	45	184	59	23	e2.8	0.00	0.00	0.00	0.00
19	0.00	0.00	0.00	43	274	57	23	e2.7	0.00	0.00	0.00	0.00
20	0.00	0.00	0.00	41	163	55	21	e2.4	0.00	0.00	0.00	0.00
21	0.00	0.00	0.00	39	131	53	21	e2.1	0.00	0.00	0.00	0.00
22	0.00	0.00	0.00	38	128	52	20	e1.7	0.00	0.00	0.00	0.00
23	0.00	0.00	0.00	36	120	50	19	e1.4	0.00	0.00	0.00	0.00
24	0.00	0.00	0.00	36	107	48	17	e1.1	0.00	0.00	0.00	0.00
25	0.00	0.00	75	34	470	47	16	e0.70	0.00	0.00	0.00	0.00
26	0.00	0.00	67	33	1610	47	15	e0.40	0.00	0.00	0.00	0.00
27	0.00	0.00	50	32	699	47	14	e0.10	0.00	0.00	0.00	0.00
28	0.00	0.00	46	32	490	45	13	e0.00	0.00	0.00	0.00	0.00
29	0.00	0.00	51	32	382	43	12	0.00	0.00	0.00	0.00	0.00
30	0.00	0.00	548	31	---	42	11	0.00	0.00	0.00	0.00	0.00
31	0.00	---	276	30	---	40	---	0.00	---	0.00	0.00	---
TOTAL	0.00	0.00	1113.00	2650	5567	3163	736	116.40	0.00	0.00	0.00	0.00
MEAN	0.000	0.000	35.9	85.5	192	102	24.5	3.75	0.000	0.000	0.000	0.000
MAX	0.00	0.00	548	572	1610	303	40	10	0.00	0.00	0.00	0.00
MIN	0.00	0.00	0.00	30	29	40	11	0.00	0.00	0.00	0.00	0.00
AC-FT	0.00	0.00	2210	5260	11040	6270	1460	231	0.00	0.00	0.00	0.00

e Estimated.

11149900 SAN ANTONIO RIVER NEAR LOCKWOOD, CA—Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1966 - 2004, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	0.30	13.7	86.4	291	398	321	119	42.4	13.2	3.20	0.36	0.049
MAX	11.7	108	573	1515	2351	1856	637	167	94.0	35.7	6.90	1.91
(WY)	1984	1984	1967	1969	1998	1983	1982	1983	1998	1998	1998	1983
MIN	0.000	0.000	0.000	0.000	0.000	0.058	0.005	0.000	0.000	0.000	0.000	0.000
(WY)	1966	1967	1977	1977	1977	1977	1977	1977	1972	1966	1966	1966

SUMMARY STATISTICS

FOR 2003 CALENDAR YEAR

FOR 2004 WATER YEAR

WATER YEARS 1966 - 2004

ANNUAL TOTAL	15744.10	13345.40	
ANNUAL MEAN	43.1	36.5	106
HIGHEST ANNUAL MEAN			455 1983
LOWEST ANNUAL MEAN			0.005 1977
HIGHEST DAILY MEAN	622 Jan 11	1610 Feb 26	14000 Mar 10 1995
LOWEST DAILY MEAN	0.00 Jul 10	0.00 Oct 1	0.00 Oct 1 1965
ANNUAL SEVEN-DAY MINIMUM	0.00 Jul 10	0.00 Oct 1	0.00 Oct 1 1965
MAXIMUM PEAK FLOW		3910 Feb 26	23600 Mar 10 1995
MAXIMUM PEAK STAGE		9.61 Feb 26	14.25 Mar 10 1995
ANNUAL RUNOFF (AC-FT)	31230	26470	76790
10 PERCENT EXCEEDS	106	78	214
50 PERCENT EXCEEDS	6.4	0.00	4.2
90 PERCENT EXCEEDS	0.00	0.00	0.00

11149900 SAN ANTONIO RIVER NEAR LOCKWOOD, CA—Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.—Water years 1966 to current year.

WATER TEMPERATURE: Water years 1966–73.

SEDIMENT DATA: Water years 1966 to current year.

PERIOD OF DAILY RECORD.—October 1965 to September 1973.

SUSPENDED-SEDIMENT DISCHARGE: October 1965 to September 1973.

WATER TEMPERATURE: November 1965 to May 1973.

EXTREMES FOR PERIOD OF DAILY RECORD.—

SEDIMENT CONCENTRATION: Maximum daily mean, 7,420 mg/L, Dec. 6, 1966; minimum daily mean, no flow on many days each year.

SEDIMENT LOAD: Maximum daily, 161,000 tons, Dec. 6, 1966; minimum daily, 0 ton, many days each year.

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Time	Instan- taneous dis- charge, cfs (00061)	Temper- ature, water, deg C (00010)	Sus- pended sedi- ment concen- tration mg/L (80154)	Sus- pended sedi- ment load, tons/d (80155)	Suspnd. sedi- ment, sieve diametr percent <.063mm (70331)
DEC						
31...	1225	260	11.0	48	34	--
JAN						
14...	1010	55	10.5	2	.30	53
FEB						
19...	1150	266	11.5	38	27	38
APR						
14...	1120	24	18.0	2	.13	--
MAY						
19...	1030	3.0	20.0	1	.01	--

PARTICLE-SIZE DISTRIBUTION OF SURFACE BED MATERIAL, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Time	Number of sam- pling points, count (00063)	Instan- taneous dis- charge, cfs (00061)	Bed sedi- ment, dry svd sve dia percent <.125mm (80165)	Bed sedi- ment, dry svd sve dia percent <.25mm (80166)	Bed sedi- ment, dry svd sve dia percent <.5 mm (80167)	Bed sedi- ment, dry svd sve dia percent <1 mm (80168)
AUG							
20...	1130	1	.00	--	1	4	21
20...	1132	1	.00	--	1	5	17
20...	1134	1	.00	--	1	4	23
20...	1135	1	.00	--	--	4	31
20...	1136	1	.00	--	1	16	49
20...	1137	1	.00	--	1	10	24
20...	1140	1	.00	--	1	7	27
20...	1142	1	.00	1	4	19	56
20...	1144	1	.00	--	1	4	12
20...	1146	1	.00	1	2	7	46

Date	Bed sedi- ment, dry svd sve dia percent <2 mm (80169)	Bed sedi- ment, dry svd sve dia percent <4 mm (80170)	Bed sedi- ment, dry svd sve dia percent <4 mm (80170)	Bed sedi- ment, dry svd sve dia percent <8 mm (80171)	Bed sedi- ment, dry svd sve dia percent <16 mm (80172)	Bed sedi- ment, dry svd sve dia percent <32 mm (80173)	Bed sedi- ment, dry svd sve dia percent <64 mm (80174)
------	--	--	--	--	---	---	---

AUG							
20...	50	75	75	90	97	100	--
20...	38	62	62	83	95	100	--
20...	51	66	66	77	91	100	--
20...	72	91	91	97	100	--	--
20...	73	89	89	96	99	100	--
20...	32	40	40	49	62	100	--
20...	50	68	68	82	93	100	--
20...	88	96	96	98	100	--	--
20...	22	32	32	41	50	61	100
20...	87	96	96	99	100	--	--

11149900 SAN ANTONIO RIVER NEAR LOCKWOOD, CA—Continued

PARTICLE-SIZE DISTRIBUTION OF BEDLOAD, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Time	Sam- pling method, code (82398)	Sampler type, code (84164)	Bag mesh size, bedload sampler mm (30333)	Tether line used in sampling (yes=1) code (04117)	Startng time, 24 hour clock, hr:min (82073)	Ending time, 24 hour clock, hr:min (82074)	Rest time on bed for bed load sample, seconds (04120)	Hori- zontal width of verti- cal, feet (04121)
DEC									
31...	1245	1000	1150	.250	0	1240	1245	5	6.0
31...	1255	1000	1150	.250	0	1250	1255	5	6.0
JAN									
14...	1030	1000	1150	.250	0	1025	1034	10	3.0
14...	1045	1000	1150	.250	0	1040	1049	10	3.0
FEB									
19...	1220	1000	1150	.250	0	1215	1224	20	6.0
19...	1235	1000	1150	.250	0	1230	1241	20	6.0
APR									
14...	1140	1000	1150	.250	0	1133	1150	30	1.6
14...	1210	1000	1150	.250	0	1200	1217	30	1.6

Date	Compstd samples in x-sec bedload measmnt number (04118)	Verti- cals in com- posite sample, number (04119)	Number of sam- pling points, count (00063)	Loca- tion in X-sect. looking dwnstrm ft from 1 bank (00009)	Instan- taneous dis- charge, cfs (00061)	Temper- ature, water, deg C (00010)	Bedload sedimnt dschrge average unit cmposit t/d/ft (04122)	Bedload sedi- ment dis- charge, tons/d (80225)	Bedload sedi- ment, sieve diametr percent <.25mm (80228)
DEC									
31...	2	16	16	3.00	255	11.0	7.56	617	1
31...	2	16	16	3.00	255	11.0	5.30	617	--
JAN									
14...	2	14	14	1.50	55	10.5	1.08	56	--
14...	2	14	14	1.50	55	10.5	1.59	56	--
FEB									
19...	2	16	16	3.00	261	11.5	3.14	290	--
19...	2	16	16	3.00	261	11.5	2.91	290	1
APR									
14...	2	20	20	.80	24	18.0	.22	9.3	--
14...	2	20	20	.80	24	18.0	.36	9.3	--

Date	Bedload sedi- ment, sieve diametr percent <.5 mm (80229)	Bedload sedi- ment, sieve diametr percent <1 mm (80230)	Bedload sedi- ment, sieve diametr percent <2 mm (80231)	Bedload sedi- ment, sieve diametr percent <4 mm (80232)	Bedload sedi- ment, sieve diametr percent <8 mm (80233)	Bedload sedi- ment, sieve diametr percent <16 mm (80234)	Bedload sedi- ment, sieve diametr percent <32 mm (80235)	Bedload sedi- ment, sieve diametr percent <64 mm (80236)
DEC								
31...	13	49	75	89	94	100	--	--
31...	10	39	67	82	89	93	93	100
JAN								
14...	7	42	77	92	98	100	--	--
14...	5	42	82	96	99	100	--	--
FEB								
19...	9	37	66	83	93	98	100	--
19...	11	37	66	83	92	98	100	--
APR								
14...	2	42	88	98	100	--	--	--
14...	4	42	83	97	100	--	--	--

11150500 SALINAS RIVER NEAR BRADLEY, CA

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

DRAINAGE AREA.—2,535 mi².

PERIOD OF RECORD.—October 1948 to current year. Monthly discharge only for some periods, published in WSP 1315-B.

CHEMICAL DATA: Water years 1958, 1962–66, 1972–75, 1977, 1980, 1981.

SEDIMENT DATA: Water years 1950, 1990.

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

GAGE.—Water-stage recorder and crest-stage gage. Datum of gage is 442.69 ft above NGVD of 1929 (levels by U.S. Army Corps of Engineers).

REMARKS.—Records fair. Flow regulated by Santa Margarita Lake beginning in December 1941, usable capacity, 23,000 acre-ft; Lake Nacimiento (formerly Nacimiento Reservoir) beginning in February 1957, usable capacity, 340,000 acre-ft; and Lake San Antonio beginning in December 1965, usable capacity, 330,000 acre-ft. Several small diversions upstream from station. See schematic diagram of [Salinas River Basin](#).

EXTREMES FOR PERIOD OF RECORD.—Maximum discharge, 120,000 ft³/s, Mar. 11, 1995, gage height, 23.44 ft, from rating curve extended above 50,000 ft³/s; no flow at times in 1951, 1954–55, 1957.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	44	397	391	48	e160	197	166	461	380	603	646	46
2	42	421	398	49	167	159	166	451	430	580	633	42
3	40	436	408	45	163	e148	187	454	459	547	613	39
4	38	454	410	43	168	e139	192	457	447	590	627	36
5	37	478	406	41	167	e128	201	446	437	611	641	34
6	37	499	354	43	154	e119	237	443	427	602	664	33
7	37	510	353	43	156	e111	254	420	427	589	685	32
8	36	523	341	43	e147	e102	336	410	465	570	696	32
9	36	536	216	42	e155	e97	394	407	467	583	698	e30
10	36	534	e136	41	e135	e89	377	405	488	560	685	e26
11	35	585	97	40	e155	e84	383	406	503	530	666	26
12	34	610	e82	40	e162	e80	400	406	491	522	662	26
13	33	618	88	41	155	e75	426	407	476	533	667	26
14	33	616	107	41	133	e70	496	415	462	545	670	25
15	32	489	e104	41	128	e67	500	438	477	527	669	25
16	32	477	e101	42	123	e64	452	462	508	516	675	24
17	33	488	e99	70	133	e60	394	470	570	513	680	25
18	33	422	e125	87	150	57	391	459	569	578	678	25
19	32	406	152	93	93	54	384	462	628	592	651	25
20	31	429	160	93	75	52	e140	449	637	653	606	26
21	31	480	163	79	59	51	e370	445	628	635	513	25
22	32	534	164	78	56	50	434	443	585	642	439	25
23	32	531	161	e75	55	49	478	451	595	663	402	25
24	31	530	98	108	43	50	495	464	606	683	387	25
25	31	556	71	153	44	73	510	473	606	697	374	25
26	30	549	59	e162	301	104	520	459	600	695	257	25
27	30	500	51	165	e564	113	524	415	586	686	e178	26
28	30	468	46	166	326	116	525	416	587	669	e130	28
29	69	394	48	170	225	118	501	404	606	658	e92	29
30	223	389	51	178	---	130	499	382	561	635	e67	29
31	354	---	47	e174	---	166	---	374	---	643	53	---
TOTAL	1604	14859	5487	2534	4552	2972	11332	13454	15708	18650	16104	865
MEAN	51.7	495	177	81.7	157	95.9	378	434	524	602	519	28.8
MAX	354	618	410	178	564	197	525	473	637	697	698	46
MIN	30	389	46	40	43	49	140	374	380	513	53	24
AC-FT	3180	29470	10880	5030	9030	5890	22480	26690	31160	36990	31940	1720

e Estimated.

11150500 SALINAS RIVER NEAR BRADLEY, CA—Continued

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

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

SUMMARY STATISTICS

WATER YEARS 1949 - 1956

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

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1958 - 2004, BY WATER YEAR (WY)

	1958	1959	1960	1961	1962	1963	1964	1965	1966	1967	1968	1969
MEAN	256	184	214	684	1444	957	453	322	400	480	510	419
MAX	632	559	2152	7066	10180	7044	5642	1792	845	683	770	743
(WY)	1970	1983	1983	1997	1998	1995	1958	1983	1994	1994	1991	1969
MIN	3.00	5.00	7.58	9.26	10.6	16.3	12.1	4.50	2.98	0.84	0.37	1.47
(WY)	1962	1962	1991	1991	1991	1990	1990	1961	1990	1990	1990	1990

SUMMARY STATISTICS

FOR 2003 CALENDAR YEAR

FOR 2004 WATER YEAR

WATER YEARS 1958 - 2004

ANNUAL TOTAL	108005	108121	
ANNUAL MEAN	296	295	522
HIGHEST ANNUAL MEAN			1997 1983
LOWEST ANNUAL MEAN			9.39 1990
HIGHEST DAILY MEAN	1070 Mar 16	698 Aug 9	63900 Mar 11 1995
LOWEST DAILY MEAN	30 Oct 26	24 Sep 16	0.07 Sep 9 1990
ANNUAL SEVEN-DAY MINIMUM	31 Oct 22	25 Sep 13	0.09 Sep 4 1990
MAXIMUM PEAK FLOW		887 Feb 26	120000 Mar 11 1995
MAXIMUM PEAK STAGE		5.18 Feb 26	23.44 Mar 11 1995
ANNUAL RUNOFF (AC-FT)	214200	214500	378100
10 PERCENT EXCEEDS	580	612	652
50 PERCENT EXCEEDS	290	246	309
90 PERCENT EXCEEDS	50	33	25

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

LOCATION.—Lat 36°16'05", long 121°03'55", in NE 1/4 sec.23, T.19 S., R.8 E., [Monterey County](#), Hydrologic Unit 18060005, on left bank, 1.3 mi downstream from Bitterwater Creek, 5 mi northeast of King City, and 10 mi upstream from mouth.

DRAINAGE AREA.—233 mi².

PERIOD OF RECORD.—October 1958 to current year.

CHEMICAL DATA: Water year 1977.

REVISED RECORDS.—WDR CA-85-2: 1969–84(M); WDR CA-2002-2: Datum.

GAGE.—Water-stage recorder and crest-stage gage. Datum of gage is 431.48 ft above NGVD of 1929. October 1958 to Apr. 24, 1967, at site 500 ft upstream at datum 5.16 ft higher. Apr. 25, 1967, to May 23, 1972, at site 200 ft upstream at datum 0.16 ft higher. May 23, 1972, to May 21, 1975, at site 200 ft upstream at datum 0.06 ft higher. May 21, 1975, to July 12, 1981, at site 200 ft upstream at same datum.

REMARKS.—Records are poor. No regulation; small diversions upstream from station by ranchers and sand-processing plant. See schematic diagram of [Salinas River Basin](#).

EXTREMES FOR PERIOD OF RECORD.—Maximum discharge, 11,500 ft³/s, Jan. 25, 1969, gage height, 15.33 ft, in gage well, 16.2 ft, from floodmarks, from rating curve extended above 7,100 ft³/s, on basis of slope-area measurement of peak flow; no flow for many days in 1961 and 1973.

EXTREMES FOR CURRENT YEAR.—Peak discharges greater than base discharge of 250 ft³/s, or maximum:

Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Feb. 26	0115	480	6.32

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.36	0.83	1.4	2.9	2.0	4.9	1.2	0.20	0.13	0.07	0.04	1.1
2	0.36	0.83	1.4	3.4	2.2	8.4	1.1	0.23	0.14	0.07	0.04	0.96
3	0.35	0.83	1.4	3.0	2.9	7.5	1.0	0.21	0.11	0.08	0.04	0.81
4	0.32	0.85	1.4	2.4	3.0	4.7	0.97	0.18	0.10	0.07	0.04	0.68
5	0.31	0.85	1.4	2.3	2.6	3.3	1.0	0.15	0.09	0.05	0.04	0.65
6	0.31	0.90	1.5	2.3	2.3	2.7	0.99	0.16	0.08	0.05	0.04	0.64
7	0.31	0.90	1.5	2.1	2.3	2.5	0.99	0.14	0.07	0.05	0.03	0.61
8	0.30	0.95	1.5	1.9	2.1	2.4	0.92	0.15	0.08	0.05	0.03	0.58
9	0.30	1.00	1.5	1.9	2.2	2.0	0.89	0.17	0.08	0.05	0.03	0.59
10	0.29	1.0	1.5	1.9	2.2	2.0	0.76	0.15	0.08	0.05	0.03	0.63
11	0.29	0.96	1.5	1.9	2.2	1.9	0.67	0.14	0.08	0.04	0.03	0.59
12	0.34	0.97	1.5	1.9	2.2	1.9	0.65	0.14	0.10	0.03	0.04	0.59
13	0.31	1.0	1.5	1.9	2.1	1.7	0.59	0.21	0.10	0.04	0.04	0.59
14	0.31	1.1	1.7	1.9	2.3	1.7	0.49	0.21	0.10	0.04	0.04	0.58
15	0.41	1.2	1.8	1.9	2.2	1.7	0.48	0.18	0.10	0.03	0.04	0.58
16	0.62	1.2	1.6	1.9	2.3	1.7	0.54	0.18	0.10	0.03	0.03	0.58
17	0.52	1.2	1.5	1.9	2.3	1.5	0.54	0.16	0.10	0.02	0.11	0.58
18	0.50	1.2	1.5	1.9	3.7	1.5	0.55	0.16	0.11	0.01	1.1	0.58
19	0.52	1.2	1.6	1.9	13	1.5	0.61	0.16	0.10	0.01	0.61	0.60
20	0.53	1.2	1.9	2.0	4.4	1.5	0.60	0.15	0.10	0.01	0.91	0.59
21	0.53	1.2	1.9	2.0	2.0	1.5	0.48	0.11	0.08	0.02	0.41	0.58
22	0.54	1.2	1.8	1.9	1.5	1.5	0.48	0.13	0.08	0.02	0.28	0.57
23	0.57	1.2	1.9	1.9	1.5	1.5	0.45	0.20	0.08	0.03	0.24	0.56
24	0.42	1.2	1.9	2.1	3.4	1.4	0.42	0.21	0.08	0.04	0.36	0.53
25	0.59	1.2	2.5	2.1	33	1.4	0.37	0.22	0.06	0.03	0.41	0.55
26	0.61	1.3	3.4	2.0	184	1.8	0.32	0.20	0.06	0.03	0.29	0.55
27	0.61	1.4	2.4	2.1	23	1.4	0.23	0.20	0.06	0.03	0.28	0.54
28	0.61	1.3	2.2	2.4	10	1.4	0.19	0.20	0.05	0.03	0.27	0.56
29	0.61	1.3	2.5	2.3	6.2	1.2	0.17	0.19	0.06	0.03	0.23	0.58
30	0.61	1.3	4.5	2.2	---	1.2	0.18	0.18	0.06	0.03	0.31	0.60
31	0.71	---	3.4	2.1	---	1.3	---	0.15	---	0.04	0.73	---
TOTAL	13.97	32.77	59.0	66.3	325.1	72.6	18.83	5.42	2.62	1.18	7.12	18.73
MEAN	0.45	1.09	1.90	2.14	11.2	2.34	0.63	0.17	0.09	0.04	0.23	0.62
MAX	0.71	1.4	4.5	3.4	184	8.4	1.2	0.23	0.14	0.08	1.1	1.1
MIN	0.29	0.83	1.4	1.9	1.5	1.2	0.17	0.11	0.05	0.01	0.03	0.53
AC-FT	28	65	117	132	645	144	37	11	5.2	2.3	14	37

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

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1959 - 2004, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	1.86	4.03	11.0	39.6	57.7	44.4	15.6	6.24	2.44	1.19	0.79	1.20
MAX	20.0	34.7	62.6	401	583	422	113	90.1	33.9	15.0	7.26	17.9
(WY)	1977	1966	1967	1969	1998	1995	1983	1998	1998	1983	1983	1976
MIN	0.05	0.06	0.07	0.07	0.25	0.59	0.19	0.07	0.04	0.04	0.00	0.03
(WY)	1991	1991	1991	1991	1991	1964	1964	1992	1961	2004	1973	1992

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1959 - 2004	
ANNUAL TOTAL	1385.16		623.64			
ANNUAL MEAN	3.79		1.70		15.3	
HIGHEST ANNUAL MEAN					81.4 1998	
LOWEST ANNUAL MEAN					0.66 1968	
HIGHEST DAILY MEAN	272	May 4	184	Feb 26	5860	Mar 10 1995
LOWEST DAILY MEAN	0.00	Jul 18	0.01	Jul 18	0.00	Jun 12 1961
ANNUAL SEVEN-DAY MINIMUM	0.02	Jul 17	0.02	Jul 16	0.00	Jun 12 1961
MAXIMUM PEAK FLOW			480	Feb 26	11500	Jan 25 1969
MAXIMUM PEAK STAGE			6.32	Feb 26	15.33	Jan 25 1969
ANNUAL RUNOFF (AC-FT)	2750		1240		11080	
10 PERCENT EXCEEDS	4.7		2.3		19	
50 PERCENT EXCEEDS	1.0		0.61		1.4	
90 PERCENT EXCEEDS	0.10		0.04		0.10	

11151700 SALINAS RIVER AT SOLEDAD, CA

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

DRAINAGE AREA.—3,563 mi².

PERIOD OF RECORD.—October 1968 to September 1978, October 1983 to current year.

CHEMICAL DATA: Water years 1972–75, 1977.

SEDIMENT DATA: Water years 1990, 1992.

GAGE.—Water-stage recorder and crest-stage gage. Datum of gage is 150.61 ft above NGVD of 1929.

REMARKS.—Records fair. Flow regulated by Santa Margarita Lake beginning in December 1941, usable capacity, 23,000 acre-ft; Lake Nacimiento (formerly Nacimiento Reservoir) beginning in February 1957, usable capacity, 340,000 acre-ft; and by Lake San Antonio beginning in December 1965, usable capacity, 330,000 acre-ft. Several small diversions for irrigation upstream from station. See schematic diagram of [Salinas River Basin](#).

EXTREMES FOR PERIOD OF RECORD.—Maximum discharge, 106,000 ft³/s, Feb. 25, 1969, gage height, 23.31 ft, maximum gage height, 26.49 ft, Mar. 11, 1995; no flow at times in some years.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.5	0.00	296	84	106	245	11	172	157	219	251	e0.00
2	0.96	0.00	277	e83	115	222	10	169	146	213	263	e0.00
3	0.55	0.00	270	79	119	201	8.8	168	138	224	269	e0.00
4	0.23	0.00	268	e75	118	184	8.0	169	143	227	266	e0.00
5	0.01	0.00	269	e71	116	174	8.2	168	143	240	261	e0.00
6	0.01	0.00	275	e69	119	166	13	165	138	253	254	e0.00
7	0.00	5.6	268	e64	117	157	22	154	141	250	251	e0.00
8	0.00	68	246	e62	117	153	28	146	143	237	256	0.00
9	0.00	115	237	e60	124	147	34	137	143	220	267	0.00
10	0.00	145	225	e58	127	138	43	152	153	207	270	0.00
11	0.00	168	193	e55	127	129	68	152	161	204	269	0.00
12	0.00	196	156	e53	119	117	105	147	162	208	259	0.00
13	0.00	240	131	e51	120	102	127	142	164	207	260	0.00
14	0.00	271	118	e50	117	92	134	138	170	202	262	0.00
15	0.00	300	106	e49	114	85	141	136	169	197	264	0.00
16	0.00	315	99	e48	111	76	155	146	163	189	275	0.00
17	0.00	296	94	e48	109	64	163	167	167	175	277	0.00
18	0.00	295	90	e47	132	53	163	176	181	172	274	0.00
19	0.00	293	86	e47	135	e47	158	175	199	188	269	0.00
20	0.00	265	91	e47	134	e42	156	175	213	201	266	0.00
21	0.00	251	98	e47	127	e38	147	175	240	209	265	0.00
22	0.00	251	104	e47	123	e33	99	176	255	229	251	0.00
23	0.00	266	109	e49	116	e29	129	179	253	238	224	0.00
24	0.00	292	114	e52	105	e26	145	188	243	246	193	0.00
25	0.00	305	120	e51	e110	e22	158	192	236	254	163	0.00
26	0.00	322	109	e54	e162	19	168	186	225	262	143	0.00
27	0.00	342	92	e66	246	17	172	185	223	264	122	0.00
28	0.00	352	84	76	265	16	174	175	232	260	80	0.00
29	0.00	346	87	88	279	18	177	160	228	256	45	0.00
30	0.00	330	e102	95	---	14	181	154	224	253	25	0.00
31	0.00	---	91	99	---	13	---	156	---	255	e1.0	---
TOTAL	3.26	6029.60	4905	1924	3929	2839	3106.0	5080	5553	6959	6795.0	0.00
MEAN	0.11	201	158	62.1	135	91.6	104	164	185	224	219	0.00
MAX	1.5	352	296	99	279	245	181	192	255	264	277	0.00
MIN	0.00	0.00	84	47	105	13	8.0	136	138	172	1.0	0.00
AC-FT	6.5	11960	9730	3820	7790	5630	6160	10080	11010	13800	13480	0.00

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1969 - 2004, BY WATER YEAR (WY)

MEAN	144	126	153	785	1568	1075	270	140	152	168	169	178
MAX	488	336	876	6383	11170	8695	1834	661	456	412	327	478
(WY)	1970	1970	1984	1997	1998	1995	1969	1969	1998	1998	1969	1969
MIN	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
(WY)	1990	1990	1990	1990	1990	1990	1990	1990	1990	1990	1990	1990

SUMMARY STATISTICS

	FOR 2003 CALENDAR YEAR	FOR 2004 WATER YEAR	WATER YEARS 1969 - 2004
ANNUAL TOTAL	46471.86	47122.86	
ANNUAL MEAN	127	129	405
HIGHEST ANNUAL MEAN			1981 1969
LOWEST ANNUAL MEAN			0.00 1990
HIGHEST DAILY MEAN	374 Mar 19	352 Nov 28	68300 Feb 25 1969
LOWEST DAILY MEAN	0.00 Oct 7	0.00 Oct 7	0.00 Mar 9 1977
ANNUAL SEVEN-DAY MINIMUM	0.00 Oct 7	0.00 Oct 7	0.00 Mar 9 1977
MAXIMUM PEAK FLOW		362 Nov 28	106000 Feb 25 1969
MAXIMUM PEAK STAGE		10.24 Nov 28	26.49 Mar 11 1995
ANNUAL RUNOFF (AC-FT)	92180	93470	293100
10 PERCENT EXCEEDS	255	264	446
50 PERCENT EXCEEDS	112	132	136
90 PERCENT EXCEEDS	1.3	0.00	0.00

e Estimated.

11152000 ARROYO SECO NEAR SOLEDAD, CA

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

DRAINAGE AREA.—244 mi².

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

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

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

REMARKS.—Records good. No regulation or large diversion upstream from station. Low flows affected by upstream gravel mining and irrigation during summer months. See schematic diagram of [Salinas River Basin](#).

EXTREMES FOR PERIOD OF RECORD.—Maximum discharge, 28,300 ft³/s, Apr. 3, 1958, gage height, 16.40 ft, datum then in use, from rating curve extended above 12,000 ft³/s, on basis of slope-area measurement at gage height 16.30 ft, maximum gage height, 16.44 ft, Mar. 10, 1995; no flow at times during several years.

EXTREMES FOR CURRENT YEAR.—Peak discharges greater than base discharge of 2,500 ft³/s, or maximum:

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Dec. 29	2345	3,390	5.62	Feb. 25	1715	8,090	8.67

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.5	5.8	13	526	48	469	71	30	15	2.8	0.00	0.00
2	3.7	7.3	28	967	72	419	69	28	13	3.2	0.00	0.00
3	3.9	9.3	28	401	302	351	66	27	12	3.7	0.00	0.00
4	4.0	11	19	257	174	306	63	25	12	3.6	0.00	0.00
5	4.3	12	17	194	137	272	61	25	11	3.1	0.00	0.00
6	4.3	11	17	160	118	245	60	24	11	2.0	0.00	0.00
7	4.1	10	19	139	106	224	59	23	10	1.3	0.00	0.00
8	4.2	10	23	123	97	207	57	23	9.4	1.2	0.00	0.00
9	4.3	12	22	111	91	191	56	23	9.5	1.3	0.00	0.00
10	4.0	19	27	101	85	179	54	23	9.9	1.3	0.00	0.00
11	3.9	15	56	95	82	168	52	23	11	1.2	0.00	0.00
12	3.9	12	40	88	77	158	e51	23	11	1.1	0.00	0.00
13	4.0	11	28	83	73	150	e49	23	9.6	0.94	0.00	0.00
14	3.9	11	25	79	70	142	48	22	8.9	0.90	0.00	0.00
15	4.0	11	58	75	70	134	48	21	7.5	0.86	0.00	0.00
16	4.5	13	36	71	70	127	48	20	6.6	0.65	0.00	0.00
17	4.4	13	27	69	92	121	48	19	e6.2	0.52	0.00	0.00
18	4.2	12	23	66	815	116	49	19	e6.5	0.33	0.00	0.00
19	4.1	12	22	63	481	111	49	19	6.6	0.14	0.00	0.00
20	4.7	12	49	61	312	106	48	19	6.9	0.01	0.00	0.00
21	4.9	12	50	59	250	102	46	19	6.5	0.00	0.00	0.00
22	4.8	11	45	58	237	99	44	19	5.8	0.00	0.00	0.00
23	5.0	11	36	56	200	96	42	19	5.6	0.00	0.00	0.00
24	4.7	11	135	57	178	91	40	18	5.2	0.00	0.00	0.00
25	4.5	11	294	56	2310	88	38	18	4.7	0.00	0.00	0.00
26	4.0	12	191	52	1880	104	36	19	4.3	0.00	0.00	0.00
27	4.1	12	103	51	998	92	34	19	3.9	0.00	0.00	0.00
28	4.6	12	71	55	707	86	32	18	3.8	0.00	0.00	0.00
29	4.7	12	208	52	549	81	31	16	3.6	0.00	0.00	0.00
30	5.0	12	1620	50	---	76	30	16	3.1	0.00	0.00	0.00
31	5.4	---	389	49	---	75	---	16	---	0.00	0.00	---
TOTAL	133.6	345.4	3719	4324	10681	5186	1479	656	240.1	30.15	0.00	0.00
MEAN	4.31	11.5	120	139	368	167	49.3	21.2	8.00	0.97	0.00	0.00
MAX	5.4	19	1620	967	2310	469	71	30	15	3.7	0.00	0.00
MIN	3.5	5.8	13	49	48	75	30	16	3.1	0.00	0.00	0.00
AC-FT	265	685	7380	8580	21190	10290	2930	1300	476	60	0.00	0.00

e Estimated.

SALINAS RIVER BASIN

11152000 ARROYO SECO NEAR SOLEDAD, CA—Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1902 - 2004, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	9.42	54.0	169	388	573	444	248	93.8	39.2	14.7	5.86	4.79
MAX	75.5	650	1161	2425	2697	2344	2043	644	208	97.4	54.5	38.8
(WY)	1905	1927	1956	1914	1998	1983	1958	1983	1998	1998	1983	1978
MIN	0.00	0.00	2.87	5.95	8.98	18.5	7.82	4.14	0.66	0.00	0.00	0.00
(WY)	1914	1991	1991	1991	1991	1977	1977	1977	1924	1924	1913	1913

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1902 - 2004	
ANNUAL TOTAL	34094.3		26794.25			
ANNUAL MEAN	93.4		73.2		168	
HIGHEST ANNUAL MEAN					709	
LOWEST ANNUAL MEAN					6.97	
HIGHEST DAILY MEAN	1620	Dec 30	2310	Feb 25	16500	Dec 23 1955
LOWEST DAILY MEAN	1.5	Sep 23	0.00	Jul 21	0.00	Aug 27 1904
ANNUAL SEVEN-DAY MINIMUM	2.2	Sep 19	0.00	Jul 21	0.00	Aug 27 1904
MAXIMUM PEAK FLOW			8090	Feb 25	28300	Apr 3 1958
MAXIMUM PEAK STAGE			8.67	Feb 25	16.44	Mar 10 1995
ANNUAL RUNOFF (AC-FT)	67630		53150		121800	
10 PERCENT EXCEEDS	212		159		361	
50 PERCENT EXCEEDS	39		16		28	
90 PERCENT EXCEEDS	3.2		0.00		0.06	

11152050 ARROYO SECO BELOW RELIZ CREEK, NEAR SOLEDAD, CA

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

DRAINAGE AREA.—304 mi².

PERIOD OF RECORD.—October 1994 to current year.

GAGE.—Water-stage recorder and crest-stage gage. Datum of gage is 167.93 ft above NGVD of 1929 (levels by Monterey County).

REMARKS.—Records fair. No regulation or large diversion upstream from station. Low flows affected by upstream gravel mining and irrigation during summer months. See schematic diagram of [Salinas River Basin](#).

EXTREMES FOR PERIOD OF RECORD.—Maximum discharge, 31,000 ft³/s, Mar. 10, 1995, gage height, 9.62 ft, rating affected by backwater from Salinas River. Discharge estimated by routing peak. No flow for many days.

EXTREMES FOR CURRENT YEAR.—Peak discharges greater than base discharge of 2,500 ft³/s, or maximum:

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Dec. 30	0615	2,750	4.02	Feb. 25	2030	7,620	5.50

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.00	0.00	0.00	33	0.00	294	0.00	0.00	0.00	0.00	0.00	0.00
2	0.00	0.00	0.00	871	0.00	252	0.00	0.00	0.00	0.00	0.00	0.00
3	0.00	0.00	0.00	178	0.00	190	0.00	0.00	0.00	0.00	0.00	0.00
4	0.00	0.00	0.00	63	0.00	153	0.00	0.00	0.00	0.00	0.00	0.00
5	0.00	0.00	0.00	20	0.00	116	0.00	0.00	0.00	0.00	0.00	0.00
6	0.00	0.00	0.00	0.28	0.00	83	0.00	0.00	0.00	0.00	0.00	0.00
7	0.00	0.00	0.00	0.00	0.00	64	0.00	0.00	0.00	0.00	0.00	0.00
8	0.00	0.00	0.00	0.00	0.00	50	0.00	0.00	0.00	0.00	0.00	0.00
9	0.00	0.00	0.00	0.00	0.00	41	0.00	0.00	0.00	0.00	0.00	0.00
10	0.00	0.00	0.00	0.00	0.00	33	0.00	0.00	0.00	0.00	0.00	0.00
11	0.00	0.00	0.00	0.00	0.00	20	0.00	0.00	0.00	0.00	0.00	0.00
12	0.00	0.00	0.00	0.00	0.00	1.5	0.00	0.00	0.00	0.00	0.00	0.00
13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
18	0.00	0.00	0.00	0.00	312	0.00	0.00	0.00	0.00	0.00	0.00	0.00
19	0.00	0.00	0.00	0.00	272	0.00	0.00	0.00	0.00	0.00	0.00	0.00
20	0.00	0.00	0.00	0.00	101	0.00	0.00	0.00	0.00	0.00	0.00	0.00
21	0.00	0.00	0.00	0.00	48	0.00	0.00	0.00	0.00	0.00	0.00	0.00
22	0.00	0.00	0.00	0.00	36	0.00	0.00	0.00	0.00	0.00	0.00	0.00
23	0.00	0.00	0.00	0.00	22	0.00	0.00	0.00	0.00	0.00	0.00	0.00
24	0.00	0.00	0.00	0.00	3.4	0.00	0.00	0.00	0.00	0.00	0.00	0.00
25	0.00	0.00	0.00	e0.00	1720	0.00	0.00	0.00	0.00	0.00	0.00	0.00
26	0.00	0.00	17	e0.00	2250	0.00	0.00	0.00	0.00	0.00	0.00	0.00
27	0.00	0.00	0.01	e0.00	933	0.00	0.00	0.00	0.00	0.00	0.00	0.00
28	0.00	0.00	0.00	0.00	548	0.00	0.00	0.00	0.00	0.00	0.00	0.00
29	0.00	0.00	0.00	0.00	370	0.00	0.00	0.00	0.00	0.00	0.00	0.00
30	0.00	0.00	1140	0.00	---	0.00	0.00	0.00	0.00	0.00	0.00	0.00
31	0.00	---	175	0.00	---	0.00	---	0.00	---	0.00	0.00	---
TOTAL	0.00	0.00	1332.01	1165.28	6615.40	1297.50	0.00	0.00	0.00	0.00	0.00	0.00
MEAN	0.000	0.000	43.0	37.6	228	41.9	0.000	0.000	0.000	0.000	0.000	0.000
MAX	0.00	0.00	1140	871	2250	294	0.00	0.00	0.00	0.00	0.00	0.00
MIN	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
AC-FT	0.00	0.00	2640	2310	13120	2570	0.00	0.00	0.00	0.00	0.00	0.00

e Estimated.

SALINAS RIVER BASIN

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

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1995 - 2004, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	0.000	9.69	93.7	461	553	390	95.3	21.4	1.03	0.000	0.000	0.002
MAX	0.000	73.2	392	1975	2806	1944	448	111	8.67	0.000	0.000	0.019
(WY)	1995	2003	1997	1997	1998	1995	1998	1995	1998	1995	1995	1999
MIN	0.000	0.000	0.000	36.3	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
(WY)	1995	1995	1995	1999	2002	2002	1997	1997	1996	1995	1995	1995

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1995 - 2004	
ANNUAL TOTAL	7971.87		10410.19			
ANNUAL MEAN	21.8		28.4		133	
HIGHEST ANNUAL MEAN					354	
LOWEST ANNUAL MEAN					15.1	
HIGHEST DAILY MEAN	1140	Dec 30	2250	Feb 26	17000	Mar 10 1995
LOWEST DAILY MEAN	0.00	Jan 28	0.00	Oct 1	0.00	Oct 1 1994
ANNUAL SEVEN-DAY MINIMUM	0.00	Jan 28	0.00	Oct 1	0.00	Oct 1 1994
MAXIMUM PEAK FLOW			7620	Feb 25	31000	Mar 10 1995
MAXIMUM PEAK STAGE			5.50	Feb 25	9.62	Mar 10 1995
ANNUAL RUNOFF (AC-FT)	15810		20650		96690	
10 PERCENT EXCEEDS	41		0.00		277	
50 PERCENT EXCEEDS	0.00		0.00		0.00	
90 PERCENT EXCEEDS	0.00		0.00		0.00	

11152300 SALINAS RIVER NEAR CHUALAR, CA

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

DRAINAGE AREA.—4,042 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.—October 1976 to current year.

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

GAGE.—Water-stage recorder and crest-stage gage. Datum of gage is 68.00 ft above NGVD of 1929. Prior to January 1979, nonrecording gage at same site and datum. January 1979 to Aug. 19, 1991, at site 0.2 mi upstream at same datum.

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

EXTREMES FOR PERIOD OF RECORD.—Maximum discharge, 92,000 ft³/s, estimated, Mar. 11, 1995, gage height, 19.70 ft, from rating curve extended above 18,000 ft³/s; peak flow includes an estimate of 8,800 ft³/s bypassing the gage; no flow at times during most years.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.00	0.00	184	197	35	694	0.00	94	47	93	82	0.00
2	0.00	0.00	167	289	44	594	0.00	87	43	90	82	0.00
3	0.00	0.00	e161	490	53	502	0.00	87	35	89	97	0.00
4	0.00	0.00	e159	195	53	422	0.00	89	29	95	103	0.00
5	0.00	0.00	159	101	52	359	0.00	87	30	101	99	0.00
6	0.00	0.00	163	63	55	308	0.00	87	27	107	89	0.00
7	0.00	0.00	170	49	57	265	0.00	81	26	114	79	0.00
8	0.00	0.00	160	39	58	231	0.00	72	26	111	75	0.00
9	0.00	0.00	148	32	60	198	0.00	66	25	99	83	0.00
10	0.00	0.00	146	25	63	170	0.00	65	24	84	93	0.00
11	0.00	0.00	134	21	62	143	0.00	64	30	75	99	0.00
12	0.00	0.00	107	18	61	118	0.00	60	32	74	93	0.00
13	0.00	0.00	84	15	59	98	0.00	55	32	72	84	0.00
14	0.00	0.00	69	13	60	82	5.4	51	34	68	85	0.00
15	0.00	0.00	53	12	57	70	22	47	37	62	90	0.00
16	0.00	0.00	43	9.6	58	61	27	45	34	55	101	0.00
17	0.00	e7.0	36	7.7	56	52	22	53	31	47	112	0.00
18	0.00	e41	31	5.6	80	44	22	61	33	34	116	0.00
19	0.00	e63	27	3.6	313	35	29	64	42	32	113	0.00
20	0.00	80	24	3.9	232	29	35	61	55	41	108	0.00
21	0.00	80	25	4.4	154	23	40	60	75	45	103	0.00
22	0.00	81	27	3.8	116	20	36	59	93	52	104	0.00
23	0.00	88	32	3.8	98	17	25	58	106	62	91	0.00
24	0.00	107	35	6.5	76	13	36	63	108	67	60	0.00
25	0.00	127	41	6.0	86	10	47	68	105	73	33	0.00
26	0.00	141	44	4.6	1700	8.4	64	68	98	82	15	0.00
27	0.00	158	32	8.2	1550	5.3	76	65	92	92	5.4	0.00
28	0.00	178	22	16	1020	2.0	82	64	95	93	0.54	0.00
29	0.00	187	25	22	846	0.00	88	56	98	88	0.00	0.00
30	0.00	193	149	28	---	0.00	93	48	95	85	0.00	0.01
31	0.00	---	632	32	---	0.00	---	46	---	83	0.00	---
TOTAL	0.00	1531.00	3289	1724.7	7214	4573.70	749.40	2031	1637	2365	2294.94	0.01
MEAN	0.00	51.0	106	55.6	249	148	25.0	65.5	54.6	76.3	74.0	0.00
MAX	0.00	193	632	490	1700	694	93	94	108	114	116	0.01
MIN	0.00	0.00	22	3.6	35	0.00	0.00	45	24	32	0.00	0.00
AC-FT	0.00	3040	6520	3420	14310	9070	1490	4030	3250	4690	4550	0.02

e Estimated.

SALINAS RIVER BASIN

11152300 SALINAS RIVER NEAR CHUALAR, CA—Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1977 - 2004, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	48.3	68.7	266	1010	1927	1535	403	174	70.7	66.4	60.3	72.4
MAX	286	474	2757	8328	14350	10690	2793	2418	767	462	381	425
(WY)	1983	1983	1983	1997	1998	1983	1982	1983	1983	1983	1983	1983
MIN	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
(WY)	1990	1981	1990	1990	1989	1977	1989	1990	1990	1990	1990	1990

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR	FOR 2004 WATER YEAR	WATER YEARS 1977 - 2004	
ANNUAL TOTAL	26238.71	27409.75		
ANNUAL MEAN	71.9	74.9	468	
HIGHEST ANNUAL MEAN			2796	1983
LOWEST ANNUAL MEAN			0.00	1990
HIGHEST DAILY MEAN	694	Jan 11	1700	Feb 26
LOWEST DAILY MEAN	0.00	Apr 10	0.00	Oct 1
ANNUAL SEVEN-DAY MINIMUM	0.00	Sep 23	0.00	Oct 1
MAXIMUM PEAK FLOW			2910	Feb 26
MAXIMUM PEAK STAGE			8.42	Feb 26
ANNUAL RUNOFF (AC-FT)	52040	54370	338800	
10 PERCENT EXCEEDS	169	147	680	
50 PERCENT EXCEEDS	47	44	49	
90 PERCENT EXCEEDS	0.00	0.00	0.00	

11152300 SALINAS RIVER NEAR CHUALAR, CA—Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.—Water years 1967 to current year.

CHEMICAL DATA: Water years 1977 to current year.

SPECIFIC CONDUCTANCE: Water years 1977–81.

WATER TEMPERATURE: Water years 1967–69, 1977–81.

BIOLOGICAL DATA: Water years 1977–81.

SEDIMENT DATA: December 1966 to September 1969, January 1977 to May 1995, June 1997 to current year.

PERIOD OF DAILY RECORD.—January 1977 to September 1981.

SPECIFIC CONDUCTANCE: January 1977 to September 1981.

WATER TEMPERATURE: January 1977 to September 1981.

SUSPENDED-SEDIMENT DISCHARGE: December 1966 to September 1969.

INSTRUMENTATION.—Water-quality monitor from January 1977 to September 1981.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Time	Instantaneous discharge, cfs (00061)	Turbidity, wat unfltrd lab, Hach 2100AN NTU (99872)	Barometric pressure, mm Hg (00025)	Dissolved oxygen, mg/L (00300)	Dissolved oxygen, percent of saturation (00301)	pH, water, unfltrd std units (00400)	Specific conductance, wat unfltrd uS/cm 25 degC (00095)	Temperature, deg C (00010)	Noncarbohardness, wat flt field, mg/L as CaCO3 (00904)	Hardness, water, mg/L as CaCO3 (00900)
NOV											
20...	1045	81	34	763	10.8	102	8.4	398	13.0	45	180
FEB											
27...	1215	1470	1300	763	10.6	96	8.0	387	11.0	53	140
MAY											
26...	1145	70	67	762	10.3	116	8.4	480	21.0	63	200
AUG											
18...	1210	119	16	761	8.7	100	8.4	405	22.0	35	170

Date	Calcium water, fltrd, mg/L (00915)	Magnesium, water, fltrd, mg/L (00925)	Potassium, water, fltrd, mg/L (00935)	Sodium adsorption ratio (00931)	Sodium, water, fltrd, mg/L (00930)	Sodium, percent (00932)	Alkalinity, wat flt inc tit field, mg/L as CaCO3 (39086)	Bicarbonate, wat flt incrm. titr., field, mg/L (00453)	Carbonate, wat flt incrm. titr., field, mg/L (00452)	Chloride, water, fltrd, mg/L (00940)	Fluoride, water, fltrd, mg/L (00950)
NOV											
20...	43.3	16.3	1.81	.6	16.9	17	129	154	2	13.3	.2
FEB											
27...	35.4	11.4	2.40	1	28.3	31	81	98	1	13.1	.2
MAY											
26...	49.8	19.5	2.14	.7	22.6	19	143	169	2	17.8	.3
AUG											
18...	41.1	16.9	1.78	.5	15.9	17	138	163	2	12.3	.2

Date	Silica, water, fltrd, mg/L (00955)	Sulfate, water, fltrd, mg/L (00945)	Residue sum of constituents, mg/L (70301)	Residue water, fltrd, tons/acre-ft (70303)	Residue evap. at 180degC, wat flt mg/L (70300)	Ammonia + org-N, water, unfltrd mg/L as N (00625)	Ammonia, water, fltrd, mg/L as N (00608)	Nitrite + nitrate, water, fltrd, mg/L as N (00631)	Nitrite, water, fltrd, mg/L as N (00613)	Orthophosphate, water, fltrd, mg/L as P (00671)	Phosphorus, water, fltrd, mg/L (00666)	Phosphorus, water, unfltrd, mg/L (00665)
NOV												
20...	15.6	50.9	238	.33	244	.38	<.04	.35	<.008	.08	.10	.15
FEB												
27...	16.7	81.3	240	.34	246	2.5	<.04	.42	e.006	.04	.05	1.43
MAY												
26...	12.2	70.8	282	.41	304	.55	<.04	.38	<.008	.07	.07	.23
AUG												
18...	12.4	55.4	238	.34	252	.33	<.04	e.04	<.008	.06	.07	.13

< Actual value is known to be less than value shown.
e Estimated.

SALINAS RIVER BASIN

11152300 SALINAS RIVER NEAR CHUALAR, CA—Continued

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Time	Instantaneous discharge, cfs (00061)	Temperature, water, deg C (00010)	Suspended sediment concentration mg/L (80154)	Suspended sediment discharge, tons/d (80155)	Suspended sediment, falldia dst wat percent <.002mm (70337)	Suspended sediment, falldia dst wat percent <.004mm (70338)
NOV							
20...	1230	81	12.0	48	10	--	--
FEB							
27...	1330	1450	11.0	2100	8220	57	74
MAY							
26...	1355	67	23.5	117	21	--	--
AUG							
18...	1443	117	24.0	39	12	--	--

Date	Suspended sediment, falldia dst wat percent <.008mm (70339)	Suspended sediment, falldia dst wat percent <.016mm (70340)	Suspended sediment, falldia dst wat percent <.031mm (70341)	Suspended sediment, sieve diametr percent <.063mm (70331)	Suspended sediment, sieve diametr percent <.125mm (70332)	Suspended sediment, sieve diametr percent <.25mm (70333)	Suspended sediment, sieve diametr percent <.5 mm (70334)
NOV							
20...	--	--	--	78	--	--	--
FEB							
27...	87	90	90	91	92	95	100
MAY							
26...	--	--	--	94	--	--	--
AUG							
18...	--	--	--	--	--	--	--

CROSS-SECTIONAL DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Time	Barometric pressure, mm Hg (00025)	Dissolved oxygen, mg/L (00300)	Dissolved oxygen, percent of saturation (00301)	Specific conductance, uS/cm 25 degC (00095)	Temperature, water, deg C (00010)	Location in X-sect. looking dwnstrm ft from 1 bank (00009)
AUG							
18...*	1531	761	8.7	106	404	25.0	4.0
18...*	1534	761	8.7	106	405	25.0	12.0
18...*	1536	761	8.7	106	405	25.0	20.0
18...*	1538	761	8.6	105	405	25.0	28.0
18...*	1540	761	8.7	105	405	25.0	36.0
18...*	1542	761	8.6	105	405	25.0	44.0
18...*	1544	761	8.6	104	405	25.0	52.0
18...*	1546	761	8.6	104	404	25.0	60.0
18...*	1548	761	8.6	105	404	25.0	68.0
18...*	1550	761	8.7	106	404	25.0	76.0

* Instantaneous streamflow at the time of cross-sectional measurement: Aug. 18, 117 ft³/s

11152500 SALINAS RIVER NEAR SPRECKELS, CA

LOCATION.—Lat 36°37'52", long 121°40'17", in Nacional Grant, [Monterey County](#), Hydrologic Unit 18060005, on right bank, on downstream side of bridge on Salinas–Monterey Highway (68), 0.8 mi upstream from El Toro Creek, 1.6 mi northwest of Spreckels, and 2 mi south of Salinas.

DRAINAGE AREA.—4,156 mi².

PERIOD OF RECORD.—January 1900 to August 1901, October 1929 to current year. Records for water year 1930 incomplete; yearly estimate published in WSP 1315-B. Published as "near Salinas" 1900–1901.

CHEMICAL DATA: Water years 1952–54, 1958–70, 1972–79. Published incorrectly as station 11152300 "near Chualar" in 1967.

BIOLOGICAL DATA: Water years 1975–77.

SPECIFIC CONDUCTANCE: Water years 1975–77, daily.

WATER TEMPERATURE: Water years 1967–79, daily. Published incorrectly as station 11152300 "near Chualar" in 1967–69.

SEDIMENT DATA: Water years 1950–51; 1967–79, daily; 1986, monthly; August 1990. Published incorrectly as station 11152300 "near Chualar" in 1967–69.

TURBIDITY: Water year 1973.

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

GAGE.—Water-stage recorder and crest-stage gage. Datum of gage is 20.56 ft above NGVD of 1929. 1900–1901, May 10 to July 29, 1940, nonrecording gages at site 0.3 mi downstream at different datum. July 29, 1940, to May 22, 1969, water-stage recorder at site 0.3 mi downstream at datum 0.69 ft lower. May 23, 1969, to Jan. 13, 1970, nonrecording gage at same site and datum. Mar. 17, 1941, to June 30, 1961, supplementary nonrecording gages.

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

EXTREMES FOR PERIOD OF RECORD.—Maximum discharge, 95,000 ft³/s, Mar. 12, 1995, gage height, 30.29 ft, from rating extended above 30,000 ft³/s, peak includes estimate of 9,800 ft³/s bypassing gage; no flow at times in 1929–40, many days each year since 1990.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.00	0.00	0.25	287	0.00	481	0.63	23	0.18	12	0.35	0.11
2	0.00	0.00	32	120	0.04	397	0.56	29	0.06	18	4.3	0.04
3	0.00	0.00	52	207	0.26	339	0.42	25	0.00	21	14	0.00
4	0.00	0.00	58	241	0.04	284	0.33	32	0.00	20	29	0.00
5	0.00	0.00	67	94	0.00	242	0.27	40	0.00	31	39	0.00
6	0.00	0.00	74	25	0.00	214	0.19	46	0.00	37	44	0.00
7	0.00	0.00	82	2.3	0.00	191	0.15	48	0.00	44	46	0.00
8	0.00	0.00	90	1.2	0.00	172	0.13	41	0.00	48	44	0.00
9	0.00	0.00	90	0.78	0.00	156	0.14	28	0.03	51	43	0.00
10	0.00	0.00	87	0.52	0.00	138	0.13	16	0.00	46	46	0.00
11	0.00	0.00	84	0.27	0.00	122	0.12	18	0.00	29	56	0.00
12	0.00	0.00	70	0.14	0.00	107	0.12	19	0.00	7.7	63	0.00
13	0.00	0.00	44	0.10	0.00	92	0.11	8.3	0.00	2.1	67	0.00
14	0.00	0.00	22	0.07	0.00	78	0.09	2.0	0.00	1.6	64	0.00
15	0.00	0.00	2.8	0.06	0.00	61	0.09	1.2	0.00	1.1	60	0.00
16	0.00	0.00	1.4	0.05	0.00	49	0.06	0.67	0.00	0.24	63	0.00
17	0.00	0.00	0.67	0.03	0.28	37	0.03	0.58	0.00	0.00	67	0.00
18	0.00	0.00	0.27	0.02	56	24	0.00	0.48	0.00	0.00	71	0.00
19	0.00	0.00	0.20	0.02	52	9.2	0.00	0.74	0.00	0.00	75	0.00
20	0.00	0.00	0.12	0.01	171	2.6	0.00	5.3	0.00	0.00	79	0.00
21	0.00	0.00	0.05	0.00	146	1.5	0.00	7.6	0.00	0.00	82	0.00
22	0.00	0.00	0.02	0.00	100	1.2	0.00	6.2	0.00	0.00	82	0.00
23	0.00	0.00	0.00	0.00	68	0.92	0.00	7.1	0.00	0.00	84	0.00
24	0.00	0.00	0.00	0.11	46	0.74	0.00	4.2	0.00	0.00	82	0.00
25	0.00	0.00	0.79	0.02	75	0.87	0.00	14	0.00	0.00	56	0.00
26	0.00	0.00	0.19	0.00	290	0.98	0.00	21	0.00	0.00	7.7	0.00
27	0.00	0.00	0.01	0.01	1850	0.79	0.00	20	0.00	0.00	0.82	0.00
28	0.00	0.00	0.00	0.01	933	0.80	0.00	16	0.49	0.00	0.45	0.00
29	0.00	0.00	8.0	0.00	589	0.76	0.02	15	5.4	0.00	0.32	0.00
30	0.00	0.00	12	0.01	---	0.75	7.9	3.3	8.9	0.00	0.24	0.00
31	0.00	---	79	0.00	---	0.77	---	0.85	---	0.00	0.17	---
TOTAL	0.00	0.00	957.77	979.73	4376.62	3205.88	11.49	499.52	15.06	369.74	1370.35	0.15
MEAN	0.00	0.00	30.9	31.6	151	103	0.38	16.1	0.50	11.9	44.2	0.01
MAX	0.00	0.00	90	287	1850	481	7.9	48	8.9	51	84	0.11
MIN	0.00	0.00	0.00	0.00	0.00	0.74	0.00	0.48	0.00	0.00	0.17	0.00
AC-FT	0.00	0.00	1900	1940	8680	6360	23	991	30	733	2720	0.3

SALINAS RIVER BASIN

11152500 SALINAS RIVER NEAR SPRECKELS, CA—Continued

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

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

SUMMARY STATISTICS

WATER YEARS 1930 - 1940

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

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1942 - 2004, BY WATER YEAR (WY)

	1942	1943	1944	1945	1946	1947	1948	1949	1950	1951	1952	1953	1954
MEAN	23.8	33.1	211	877	1496	1221	473	121	32.5	20.2	19.5	28.3	
MAX	402	389	2511	6993	16260	12640	6714	2839	767	403	354	394	
(WY)	1970	1983	1983	1997	1998	1983	1958	1983	1983	1983	1983	1983	
MIN	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
(WY)	1991	1991	1991	1991	1990	1990	1990	1990	1990	1990	1990	1990	

SUMMARY STATISTICS

FOR 2003 CALENDAR YEAR

FOR 2004 WATER YEAR

WATER YEARS 1942 - 2004

ANNUAL TOTAL	8997.40	11786.31	
ANNUAL MEAN	24.7	32.2	374
HIGHEST ANNUAL MEAN			2997 1983
LOWEST ANNUAL MEAN			0.81 1990
HIGHEST DAILY MEAN	580 Jan 12	1850 Feb 27	64800 Feb 26 1969
LOWEST DAILY MEAN	0.00 Apr 30	0.00 Oct 1	0.00 Jan 31 1990
ANNUAL SEVEN-DAY MINIMUM	0.00 Jun 17	0.00 Oct 1	0.00 Jan 31 1990
MAXIMUM PEAK FLOW		2400 Feb 27	95000 Mar 12 1995
MAXIMUM PEAK STAGE		9.96 Feb 27	30.29 Mar 12 1995
ANNUAL RUNOFF (AC-FT)	17850	23380	270900
10 PERCENT EXCEEDS	89	78	568
50 PERCENT EXCEEDS	0.06	0.08	3.2
90 PERCENT EXCEEDS	0.00	0.00	0.00

11152600 GABILAN CREEK NEAR SALINAS, CA

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

DRAINAGE AREA.—36.7 mi².

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

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

GAGE.—Water-stage recorder and crest-stage gage. Concrete control since Oct. 9, 1975. Elevation of gage is 200 ft above NGVD of 1929, from topographic map. Prior to Oct. 9, 1975, on right bank at same datum.

REMARKS.—Records poor. Natural flow of stream affected by small diversions, storage reservoirs, and return flow from irrigated areas.

EXTREMES FOR PERIOD OF RECORD.—Maximum discharge, 1,030 ft³/s, Feb. 3, 1998, gage height, 5.17 ft, from rating curve extended above 260 ft³/s, maximum gage height, 11.13 ft, Apr. 1, 1974, at datum then in use; no flow for many days each year.

EXTREMES FOR CURRENT YEAR.—Peak discharges greater than base discharge of 60 ft³/s, or maximum:

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Dec. 25	1115	66	2.63	Feb. 3	0400	116	2.84
Dec. 29	2230	203	3.16	Feb. 25	1500	262	3.36
Jan. 1	1500	223	3.23				

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.00	0.00	0.00	52	0.00	e35	0.00	0.64	0.26	0.00	0.00	0.00
2	0.00	0.00	0.00	22	19	15	0.01	0.53	0.12	0.00	0.00	0.00
3	0.00	0.00	0.00	2.4	24	6.0	0.02	0.18	0.03	0.01	0.00	0.00
4	0.00	0.00	0.00	e1.2	0.14	4.6	e0.19	0.28	0.10	0.00	0.00	0.00
5	0.00	0.00	0.00	0.38	0.00	6.6	e0.07	0.11	0.21	0.00	0.00	0.00
6	0.00	0.00	0.00	0.16	0.00	3.2	e0.17	0.29	0.12	0.00	0.00	0.00
7	0.00	0.00	0.00	0.00	0.01	1.4	e0.07	0.41	0.17	0.00	0.00	0.00
8	0.00	0.00	0.00	0.00	0.00	0.53	e0.41	0.41	e0.10	0.00	0.00	0.00
9	0.00	0.00	0.00	0.00	0.00	0.54	e0.31	0.36	e0.04	0.00	0.00	0.00
10	0.00	0.00	0.00	0.00	0.00	0.46	e0.36	0.13	e0.11	0.00	0.00	0.00
11	0.00	0.00	0.00	0.00	0.00	0.47	e0.59	0.39	e0.02	0.00	0.00	0.00
12	0.00	0.00	0.00	0.00	0.03	0.23	e0.90	0.64	e0.06	0.00	0.00	0.00
13	0.00	0.00	0.00	0.00	0.00	0.16	e1.3	0.62	e0.11	0.00	0.00	0.00
14	0.00	0.00	0.00	0.00	0.08	0.07	2.3	0.46	e0.18	0.00	0.00	0.00
15	0.00	0.00	0.00	0.00	0.00	0.03	3.4	0.45	0.10	0.00	0.00	0.00
16	0.00	0.00	0.00	0.00	0.31	0.01	1.4	0.44	0.03	0.00	0.00	0.00
17	0.00	0.00	0.00	0.00	1.2	0.00	0.41	0.65	0.02	0.00	0.00	0.00
18	0.00	0.00	0.00	0.00	21	0.00	0.47	1.2	0.00	0.12	0.00	0.00
19	0.00	0.00	0.00	0.00	12	0.00	0.48	1.0	0.03	0.00	0.00	0.00
20	0.00	0.00	0.00	0.00	4.1	0.00	0.41	0.10	0.03	0.00	0.00	0.00
21	0.00	0.00	0.00	0.00	3.0	0.00	0.23	0.15	0.03	0.00	0.00	0.00
22	0.00	0.00	0.00	0.00	2.5	0.00	0.33	0.23	0.02	0.00	0.00	0.00
23	0.00	0.00	0.00	0.00	1.6	0.00	0.41	0.06	0.02	0.00	0.00	0.00
24	0.00	0.00	1.00	2.0	e0.68	0.00	0.71	0.04	0.02	0.00	0.00	0.00
25	0.00	0.00	26	0.00	65	0.00	0.19	0.03	0.04	0.00	0.00	0.00
26	0.00	0.00	0.00	0.00	83	0.00	0.51	0.01	0.11	0.00	0.00	0.00
27	0.00	0.00	0.00	0.40	63	0.00	0.30	0.00	0.00	0.00	0.00	0.00
28	0.00	0.00	0.00	0.05	42	0.00	0.21	0.17	0.00	0.00	0.00	0.00
29	0.00	0.00	44	0.16	37	0.06	0.18	0.36	0.00	0.00	0.00	0.00
30	0.00	0.00	18	0.19	---	0.01	0.35	0.23	0.01	0.00	0.00	0.00
31	0.00	---	0.02	0.00	---	0.00	---	0.18	---	0.00	0.00	---
TOTAL	0.00	0.00	89.02	80.94	379.65	74.37	16.69	10.75	2.09	0.13	0.00	0.00
MEAN	0.00	0.00	2.87	2.61	13.1	2.40	0.56	0.35	0.07	0.00	0.00	0.00
MAX	0.00	0.00	44	52	83	35	3.4	1.2	0.26	0.12	0.00	0.00
MIN	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
AC-FT	0.00	0.00	177	161	753	148	33	21	4.1	0.3	0.00	0.00

e Estimated.

TEMLADERO SLOUGH BASIN

11152600 GABILAN CREEK NEAR SALINAS, CA—Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1971 - 2004, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	0.04	0.53	3.51	9.89	20.0	14.9	8.27	2.56	1.19	0.45	0.16	0.04
MAX	0.50	6.20	55.0	99.5	239	124	58.7	25.2	14.8	8.24	2.85	0.58
(WY)	1984	1983	1997	1997	1998	1983	1974	1998	1998	1998	1983	1983
MIN	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
(WY)	1971	1971	1972	1972	1972	1972	1972	1971	1971	1971	1971	1971

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1971 - 2004	
ANNUAL TOTAL	144.84		653.64			
ANNUAL MEAN	0.40		1.79		5.04	
HIGHEST ANNUAL MEAN					35.4	
LOWEST ANNUAL MEAN					0.00	
HIGHEST DAILY MEAN	44	Dec 29	83	Feb 26	646	Feb 3 1998
LOWEST DAILY MEAN	0.00	Jan 1	0.00	Oct 1	0.00	Oct 1 1970
ANNUAL SEVEN-DAY MINIMUM	0.00	Jan 1	0.00	Oct 1	0.00	Oct 1 1970
MAXIMUM PEAK FLOW			262	Feb 25	1030	Feb 3 1998
MAXIMUM PEAK STAGE			3.36	Feb 25	11.13	Apr 1 1974
ANNUAL RUNOFF (AC-FT)	287		1300		3650	
10 PERCENT EXCEEDS	0.45		0.93		9.3	
50 PERCENT EXCEEDS	0.00		0.00		0.00	
90 PERCENT EXCEEDS	0.00		0.00		0.00	

11152650 RECLAMATION DITCH NEAR SALINAS, CA

LOCATION.—Lat 36°42'18", long 121°42'14", in Rincon Del Zanjon Grant, Monterey County, Hydrologic Unit 18060011, on right bank, at upstream side of San Jon road bridge, and 3.4 mi northwest of Salinas.

DRAINAGE AREA.—53.2 mi².

PERIOD OF RECORD.—October 1970 to February 1986, June 2002 to current year. March 1968 to September 1970 in reports of Monterey County Flood Control and Water Conservation District.

GAGE.—Water-stage recorder and crest-stage gage, concrete control. Elevation of gage is 16 ft above NGVD of 1929, from topographic map.

REMARKS.—Records good except for October, and May through September, which are fair due to variable debris and algae growth on weir lip. Low flows affected by return flow from irrigated agricultural and urban areas.

EXTREMES FOR PERIOD OF RECORD.—Maximum daily discharge, 524 ft³/s, Mar. 1, 1983; no flow Dec. 4, 10, 11, 1978. Prior to February 1986, only maximum daily flows were computed and published.

EXTREMES FOR CURRENT YEAR.—Peak discharges greater than base discharge of 100 ft³/s, or maximum:

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Dec. 25	1345	174	3.43	Feb. 18	0245	197	3.60
Dec. 29	2330	280	4.13	Feb. 27	0045	232	3.84
Jan. 24	0745	105	2.81				

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.66	2.1	3.2	119	1.3	43	3.1	3.5	2.8	4.0	2.3	2.4
2	0.78	0.81	2.0	155	28	38	3.0	2.9	3.5	3.9	1.9	2.2
3	0.90	11	1.1	81	55	15	3.2	2.3	3.9	3.5	2.1	2.2
4	0.54	2.4	0.82	36	26	8.1	3.9	2.4	4.2	3.6	2.5	2.4
5	0.69	1.3	14	16	8.4	8.7	3.0	3.1	3.2	3.5	2.5	2.2
6	0.28	1.7	3.4	10	4.4	2.6	3.2	3.3	3.1	2.9	2.4	1.7
7	1.1	15	17	12	2.5	2.1	3.2	2.9	3.4	2.9	2.5	1.6
8	1.8	4.0	3.2	6.3	1.6	1.1	4.3	2.6	3.0	3.1	2.1	2.2
9	1.3	15	3.0	3.0	1.8	0.98	4.0	2.8	2.6	4.1	1.9	2.4
10	0.54	2.9	3.6	1.8	1.3	1.7	3.3	2.7	2.8	3.6	2.6	2.4
11	0.40	1.9	9.6	1.5	1.2	2.5	3.4	2.4	3.0	2.8	3.8	2.5
12	0.55	1.2	2.0	1.6	1.3	0.76	2.2	3.1	3.2	2.4	3.9	3.2
13	0.17	1.0	2.0	1.6	1.1	1.2	2.8	3.1	3.2	2.8	4.2	2.1
14	0.48	1.0	21	1.1	1.1	1.2	3.4	3.3	2.9	3.8	4.2	1.8
15	0.69	2.5	8.7	1.3	1.1	0.61	3.4	3.3	3.3	4.0	4.0	2.2
16	0.74	1.4	3.8	1.3	14	0.96	2.4	2.8	3.6	3.8	3.6	2.1
17	0.39	0.69	1.5	2.8	7.2	1.8	3.4	2.4	5.1	2.8	4.3	2.3
18	0.42	1.3	1.2	1.6	155	2.7	4.0	2.2	7.0	2.6	4.3	2.3
19	0.34	1.0	7.7	1.1	74	2.1	2.9	2.8	6.6	2.5	3.9	2.0
20	0.20	0.96	14	2.0	21	1.0	2.5	2.6	5.0	2.4	4.1	1.9
21	0.18	1.0	6.6	1.6	11	1.0	2.5	2.6	3.8	2.2	4.1	1.8
22	0.33	0.81	2.0	1.4	8.7	2.0	2.5	2.5	3.6	2.4	3.6	2.4
23	0.48	0.49	1.2	1.4	5.9	4.8	3.8	2.5	3.4	2.7	3.5	2.1
24	0.39	0.37	13	43	15	1.4	3.3	2.1	3.1	2.7	3.5	2.2
25	0.42	0.60	99	11	97	10	3.0	1.9	3.0	2.3	2.5	3.5
26	0.26	0.63	71	3.5	197	21	2.7	2.0	3.2	2.1	2.2	3.8
27	0.10	0.59	18	4.3	194	4.3	2.7	2.0	2.7	2.2	2.9	2.9
28	0.30	0.44	9.8	5.1	121	3.1	3.8	4.2	3.1	2.5	2.9	3.0
29	0.34	0.55	67	2.1	61	2.6	4.4	3.7	3.2	2.0	2.8	3.0
30	0.42	13	220	1.5	---	5.9	3.5	2.9	3.2	2.6	2.4	3.2
31	9.3	---	122	1.4	---	6.9	---	2.8	---	2.6	2.4	---
TOTAL	25.49	87.64	752.42	532.3	1117.9	199.11	96.8	85.7	107.7	91.3	95.9	72.0
MEAN	0.82	2.92	24.3	17.2	38.5	6.42	3.23	2.76	3.59	2.95	3.09	2.40
MAX	9.3	15	220	155	197	43	4.4	4.2	7.0	4.1	4.3	3.8
MIN	0.10	0.37	0.82	1.1	1.1	0.61	2.2	1.9	2.6	2.0	1.9	1.6
AC-FT	51	174	1490	1060	2220	395	192	170	214	181	190	143

TEMBLADERO SLOUGH BASIN

11152650 RECLAMATION DITCH NEAR SALINAS, CA—Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1971 - 2004, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	6.34	14.6	18.0	29.4	36.5	37.8	23.7	9.43	7.17	6.73	7.27	6.41
MAX	11.2	36.8	63.8	100	214	337	118	39.6	16.9	17.0	20.4	13.4
(WY)	1974	1984	1983	1983	1983	1983	1974	1983	1983	1975	1973	1973
MIN	0.82	2.92	3.09	2.50	1.84	1.70	3.23	2.57	1.14	1.28	0.93	1.54
(WY)	2004	2004	1976	1976	1977	1972	2004	2003	2002	2002	2003	2003

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1971 - 2004	
ANNUAL TOTAL	2114.82		3264.26			
ANNUAL MEAN	5.79		8.92		17.1	
HIGHEST ANNUAL MEAN					75.4	
LOWEST ANNUAL MEAN					4.81	
HIGHEST DAILY MEAN	220	Dec 30	220	Dec 30	524	Mar 1 1983
LOWEST DAILY MEAN	0.10	Oct 27	0.10	Oct 27	0.00	Dec 4 1978
ANNUAL SEVEN-DAY MINIMUM	0.31	Oct 21	0.31	Oct 21	0.15	Dec 6 1978
MAXIMUM PEAK FLOW			280		280	
MAXIMUM PEAK STAGE			4.13		4.13	
ANNUAL RUNOFF (AC-FT)	4190		6470		12410	
10 PERCENT EXCEEDS	10		13		32	
50 PERCENT EXCEEDS	1.7		2.7		6.2	
90 PERCENT EXCEEDS	0.69		0.80		1.7	

11153650 LLAGAS CREEK NEAR GILROY, CA

LOCATION.—Lat. 36°59'15", long. 121°31'34", in Las Animas Grant, Santa Clara County, Hydrologic Unit 18060002, on right bank, 0.3 mi downstream from Miller Slough, 2.0 mi upstream from Pajaro confluence, and 2.4 mi southeast of Gilroy.

DRAINAGE AREA.—84.2 mi².

PERIOD OF RECORD.—November 2002 to current year (low flow records only).

GAGE.—Water-stage recorder, crest-stage gage, and concrete control. Elevation of gage is 160 ft above NGVD of 1929, from topographic map.

REMARKS.—Records good. No records computed above 200 ft³/s. Low flows regulated by Chesbro Reservoir, capacity, 8,090 acre-ft. Some diversions upstream from station for irrigation.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.64	1.1	1.5	---	7.3	93	11	8.2	7.9	3.0	1.8	0.83
2	0.68	0.99	1.4	---	26	93	11	8.3	7.7	3.0	1.7	0.84
3	0.69	1.4	1.4	41	16	90	10	8.3	6.6	3.0	1.7	0.77
4	0.70	0.92	1.4	73	10	67	10	8.5	5.9	2.9	1.7	0.74
5	0.69	0.94	1.6	47	8.3	38	10	9.8	6.1	2.8	1.6	0.75
6	0.74	0.94	2.0	20	7.8	30	9.7	11	6.5	2.8	1.6	0.74
7	0.78	1.5	3.6	12	7.7	27	9.2	10	6.4	2.7	1.6	0.72
8	0.81	1.8	3.5	10	7.7	27	9.1	10	6.4	2.6	1.6	0.70
9	0.78	1.9	4.0	10	7.6	22	8.9	10	6.3	2.6	1.5	0.68
10	0.76	1.1	16	10	7.4	19	9.6	10	6.1	2.6	1.4	0.69
11	0.73	1.1	6.6	10	7.3	17	11	9.9	5.3	2.5	1.3	0.69
12	0.75	1.1	3.7	9.2	7.4	16	11	9.7	4.7	2.5	1.3	0.72
13	0.80	1.1	2.9	8.2	7.4	15	10	8.4	4.4	2.4	1.2	0.73
14	0.79	1.9	5.7	8.3	7.5	15	9.7	7.3	4.3	2.5	1.2	0.71
15	0.76	2.8	2.4	8.1	7.5	14	9.4	7.0	4.2	2.5	1.1	0.71
16	0.71	3.1	3.5	8.2	8.1	14	8.7	8.1	4.0	2.5	1.1	0.71
17	0.69	3.3	4.1	8.9	8.9	14	9.3	8.8	3.8	2.4	1.0	0.72
18	0.67	3.5	4.4	9.3	55	15	8.5	8.8	3.8	2.2	1.0	0.72
19	0.66	3.6	4.6	9.5	12	14	8.3	8.6	3.8	2.2	1.1	1.3
20	0.69	2.6	3.7	9.7	10	13	8.2	8.7	3.8	2.1	e1.1	0.73
21	0.76	1.9	3.0	9.5	10	12	9.0	7.7	3.8	2.0	e1.1	0.68
22	0.83	1.6	2.5	8.9	11	12	10	7.8	3.6	2.0	e1.0	0.64
23	0.89	1.4	3.2	8.5	11	11	9.4	8.5	3.5	2.0	1.0	0.60
24	1.0	1.4	10	11	10	10	9.6	8.9	3.4	1.9	1.0	0.59
25	1.0	1.4	14	8.4	---	13	9.6	8.7	3.3	1.8	0.97	0.74
26	1.0	1.6	3.9	8.4	---	12	9.8	8.4	3.2	1.8	0.90	1.2
27	1.1	1.6	4.6	8.3	82	11	9.5	8.3	3.3	1.7	0.88	1.6
28	1.2	1.6	5.1	7.8	53	12	9.4	7.5	3.2	1.7	0.86	2.0
29	1.3	1.5	---	7.5	89	12	8.9	7.1	3.0	1.8	0.84	2.4
30	1.3	1.9	---	7.5	---	11	8.3	7.7	3.0	1.8	0.84	2.5
31	1.6	---	11	7.4	---	11	---	7.9	---	1.8	0.83	---
TOTAL	26.50	52.59	---	---	---	780	286.1	267.9	141.3	72.1	37.82	28.15
MEAN	0.85	1.75	---	---	---	25.2	9.54	8.64	4.71	2.33	1.22	0.94
MAX	1.6	3.6	---	---	---	93	11	11	7.9	3.0	1.8	2.5
MIN	0.64	0.92	---	---	---	10	8.2	7.0	3.0	1.7	0.83	0.59
AC-FT	53	104	---	---	---	1550	567	531	280	143	75	56

e Estimated.

11154700 CLEAR CREEK NEAR IDRIA, CA

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

DRAINAGE AREA.—14.1 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.—October 1993 to current year.

GAGE.—Water-stage recorder and crest-stage gage. Elevation of gage is 2,600 ft above NGVD of 1929, from topographic map.

REMARKS.—Records fair except for estimated daily discharges, which are poor. No regulation or diversion upstream from station.

EXTREMES FOR PERIOD OF RECORD.—Maximum discharge, 1,100 ft³/s, Mar. 10, 1995, gage height, 6.75 ft, from rating curve extended above 18 ft³/s, on basis of slope-area measurements at gage heights of 4.44 ft and 6.75 ft; no flow Aug. 13, 2002, Aug. 12, and Sep. 9–12, 2004.

EXTREMES FOR CURRENT YEAR.—Peak discharges greater than base discharge of 40 ft³/s, or maximum:

Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Feb. 25	1330	104	2.26

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.20	0.36	0.44	4.8	e0.36	6.9	e1.9	0.96	0.52	0.25	0.04	0.01
2	0.21	0.29	0.45	4.2	e3.4	6.5	e1.7	0.90	0.50	0.24	0.05	0.01
3	0.22	0.36	0.38	2.4	1.9	5.6	e1.7	0.86	0.47	0.23	0.05	0.03
4	0.22	0.31	0.36	2.8	1.3	6.1	e1.6	0.81	0.45	0.21	0.05	0.05
5	0.21	0.29	0.53	2.1	0.91	5.0	e1.5	0.80	0.44	0.20	0.04	0.05
6	0.21	0.30	0.57	1.6	0.75	3.8	e1.5	0.80	0.43	0.17	0.04	0.03
7	0.20	0.31	0.62	1.4	0.65	3.7	1.3	0.77	0.44	0.16	0.04	0.03
8	0.20	0.34	0.45	1.3	0.63	3.2	1.2	0.81	0.46	0.17	0.03	0.02
9	0.20	0.60	0.38	1.3	e0.60	3.3	1.2	0.80	0.54	0.18	0.02	0.00
10	0.21	0.38	0.69	1.2	e0.57	e2.9	1.1	0.80	0.57	0.17	0.02	0.00
11	0.22	0.36	0.58	1.2	e0.56	e2.8	1.1	0.81	0.51	0.17	0.01	0.00
12	0.21	0.31	0.40	1.1	e0.53	e2.7	1.1	0.79	0.46	0.15	0.00	0.00
13	0.20	0.31	0.41	0.95	e0.50	e2.6	1.1	0.76	0.45	0.13	0.01	0.01
14	0.20	0.33	1.5	e0.80	e0.48	e2.5	e1.0	0.74	0.43	0.14	0.01	0.03
15	0.20	0.41	0.55	e0.74	e0.47	e2.4	e0.92	0.73	0.41	0.13	0.01	0.02
16	0.21	0.41	0.36	e0.70	e0.46	e2.3	e0.98	0.72	0.37	0.14	0.03	0.02
17	0.22	0.39	0.31	e0.66	0.45	2.2	e0.99	0.73	0.38	0.13	0.03	0.03
18	0.22	0.37	0.29	e0.62	6.2	1.7	e1.1	0.76	0.39	0.12	0.03	0.05
19	0.23	0.36	0.64	e0.58	2.4	1.7	e1.3	0.77	0.37	0.11	0.02	0.09
20	0.22	0.36	1.2	e0.56	4.1	1.7	e1.4	0.75	0.34	0.11	0.02	0.11
21	0.22	0.36	0.66	e0.52	2.9	1.6	e1.2	0.71	0.33	0.10	0.03	0.08
22	0.22	0.36	0.56	e0.51	6.0	e1.6	e1.2	0.71	0.31	0.08	0.05	0.06
23	0.23	0.42	1.5	e0.49	4.4	e1.5	e1.1	0.69	0.30	0.07	0.08	0.05
24	0.23	0.29	2.3	e0.47	3.0	e1.5	e1.1	0.69	0.28	0.05	0.09	0.05
25	0.22	0.32	3.7	e0.45	36	e1.7	e1.0	0.73	0.26	0.06	0.08	0.04
26	0.22	0.31	1.2	e0.43	21	e2.1	e1.0	0.71	0.26	0.04	0.06	0.04
27	0.22	0.32	0.89	e0.42	12	e1.9	e0.95	0.64	0.25	0.04	0.06	0.03
28	0.22	0.31	1.1	e0.40	8.7	e1.7	e0.87	0.70	0.23	0.03	0.04	0.05
29	0.22	0.30	1.6	e0.39	7.2	e1.5	1.1	0.66	0.24	0.03	0.03	0.06
30	0.24	0.29	6.0	e0.38	---	e1.7	0.99	0.60	0.25	0.04	0.02	0.07
31	0.40	---	2.3	e0.37	---	e2.0	---	0.56	---	0.04	0.01	---
TOTAL	6.85	10.43	32.92	35.84	128.42	88.4	36.20	23.27	11.64	3.89	1.10	1.12
MEAN	0.22	0.35	1.06	1.16	4.43	2.85	1.21	0.75	0.39	0.13	0.04	0.04
MAX	0.40	0.60	6.0	4.8	36	6.9	1.9	0.96	0.57	0.25	0.09	0.11
MIN	0.20	0.29	0.29	0.37	0.36	1.5	0.87	0.56	0.23	0.03	0.00	0.00
AC-FT	14	21	65	71	255	175	72	46	23	7.7	2.2	2.2

e Estimated.

11154700 CLEAR CREEK NEAR IDRIA, CA—Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1994 - 2004, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	0.81	1.04	2.04	5.53	9.84	11.6	6.64	4.94	3.28	1.65	0.98	0.77
MAX	2.36	1.63	5.90	24.6	46.7	49.4	20.9	21.6	14.5	6.84	3.86	2.91
(WY)	1999	2002	1997	1995	1998	1995	1998	1998	1998	1998	1998	1998
MIN	0.08	0.35	0.43	1.16	1.46	1.43	1.21	0.75	0.37	0.06	0.02	0.03
(WY)	2003	2004	1995	2004	2003	2002	2004	2004	2002	2002	2002	2002

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1994 - 2004	
ANNUAL TOTAL	428.97		380.08			
ANNUAL MEAN	1.18		1.04		4.06	
HIGHEST ANNUAL MEAN					12.7	
LOWEST ANNUAL MEAN					1.04	
HIGHEST DAILY MEAN	14	Mar 15	36	Feb 25	464	Mar 10 1995
LOWEST DAILY MEAN	0.17	Sep 6	0.00	Aug 12	0.00	Aug 13 2002
ANNUAL SEVEN-DAY MINIMUM	0.18	Sep 19	0.01	Sep 7	0.00	Aug 13 2002
MAXIMUM PEAK FLOW			104	Feb 25	1100	Mar 10 1995
MAXIMUM PEAK STAGE			2.26	Feb 25	6.75	Mar 10 1995
ANNUAL RUNOFF (AC-FT)	851		754		2940	
10 PERCENT EXCEEDS	2.2		2.3		9.9	
50 PERCENT EXCEEDS	0.93		0.43		1.4	
90 PERCENT EXCEEDS	0.21		0.04		0.25	

11154700 CLEAR CREEK NEAR IDRIA, CA—Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.—October 1993 to current year.

CHEMICAL DATA: November 1993 to current year.

WATER TEMPERATURE: October 1993 to September 1996.

SEDIMENT DATA: November 1993 to current year.

PERIOD OF DAILY RECORD.—October 1993 to September 1996.

WATER TEMPERATURE: October 1993 to September 1996.

REMARKS.—Zero bed-load discharge observed for flows less than 1.5 ft³/s during current year.

EXTREMES FOR PERIOD OF DAILY RECORD.—

WATER TEMPERATURE: Maximum recorded, 35.5°C, Aug. 13–15, 1994; minimum recorded, 0.0°C, several days during water year 1994 and Jan. 23, 1996.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Time	Instantaneous discharge, cfs (00061)	Turbidity, wat lab, Hach 2100AN NTU (99872)	Barometric pressure, mm Hg (00025)	Dissolved oxygen, mg/L (00300)	Dissolved oxygen, percent of saturation (00301)	pH, water, unfltrd field, std units (00400)	Specific conductance, wat unfltrd uS/cm 25 degC (00095)	Temperature, deg C (00010)	Noncarbohardness, wat flt field, mg/L as CaCO3 (00904)	Hardness, water, mg/L as CaCO3 (00900)
DEC 30...	1230	4.6	120	692	11.1	106	9.1	972	9.0	60	640
FEB 25...	1200	50	3900	689	11.0	103	9.1	302	8.0	--	170
APR 28...	1245	1.3	2.4	690	8.2	111	8.9	1060	25.0	65	660
JUL 12...	1105	.30	<2.0	694	7.9	107	9.0	1080	25.5	38	720

Date	Calcium water, fltrd, mg/L (00915)	Magnesium water, fltrd, mg/L (00925)	Potassium water, fltrd, mg/L (00935)	Sodium adsorption ratio (00931)	Sodium water, fltrd, mg/L (00930)	Sodium, percent (00932)	Alkalinity, wat flt inc tit field, mg/L as CaCO3 (39086)	Bicarbonate, wat flt titr., field, mg/L (00453)	Carbonate, wat flt titr., field, mg/L (00452)	Chloride, water, fltrd, mg/L (00940)	Fluoride, water, fltrd, mg/L (00950)
DEC 30...	2.58	154	1.34	.2	12.7	4	580	e628	e39	23.1	<.2
FEB 25...	5.38	37.0	1.22	.1	3.28	4	--	--	--	4.94	<.2
APR 28...	2.31	160	1.44	.2	13.2	4	601	663	34	23.7	<.2
JUL 12...	2.63	172	1.69	.3	18.0	5	677	e767	e28	30.9	<.2

Date	Silica water, fltrd, mg/L (00955)	Sulfate water, fltrd, mg/L (00945)	Residue water, fltrd, sum of constituents mg/L (70301)	Residue water, fltrd, tons/acre-ft (70303)	Residue on evap. at 180degC wat flt mg/L (70300)	Aluminum, water, fltrd, ug/L (01106)	Barium, water, fltrd, ug/L (01005)	Cobalt water, fltrd, ug/L (01035)	Iron, water, fltrd, ug/L (01046)	Lithium water, fltrd, ug/L (01130)	Manganese, water, fltrd, ug/L (01056)
DEC 30...	3.18	9.1	554	.76	559	e1	52	.232	<6	18.2	1.8
FEB 25...	6.44	2.7	294	.23	168	<2	20	.147	<6	6.1	1.7
APR 28...	2.64	5.5	569	.74	547	2	80	.117	<6	20.6	.5
JUL 12...	3.27	7.0	642	.81	595	3	94	.127	e5	24.9	.9

< Actual value is known to be less than value shown.

e Estimated.

11154700 CLEAR CREEK NEAR IDRIA, CA—Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Mercury water, fltrd, ug/L (71890)	Mercury water, unfltrd recover- able, ug/L (71900)	Molyb- denum, water, fltrd, ug/L (01060)	Nickel, water, fltrd, ug/L (01065)	Selen- ium, water, fltrd, ug/L (01145)	Silver, water, fltrd, ug/L (01075)	Stront- ium, water, fltrd, ug/L (01080)	Vanad- ium, water, fltrd, ug/L (01085)	Mercury bed sed <62.5um dry svd total, ug/g (34912)
DEC 30...	.16	.49	<.4	2.85	e.3	<.2	36.7	.7	.24
FEB 25...	.07	8.10	.5	2.54	<.4	<.2	62.8	.3	.40
APR 28...	.09	.07	<.4	1.79	<.4	<.2	40.2	2.2	.20
JUL 12...	.11	.11	.5	1.61	.4	<.2	52.0	<.1	.36

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Time	Instan- taneous dis- charge, cfs (00061)	Temper- ature, deg C (00010)	Sus- pended sedi- ment concen- tration mg/L (80154)	Sus- pended sedi- ment dis- charge, tons/d (80155)	Suspnd. sedi- ment, sieve diametr percent <.063mm (70331)
DEC 30...	1342	4.3	9.0	392	4.6	--
FEB 25...	1143	47	8.0	10600	1350	62
APR 06...	1042	1.5	13.0	8	.03	--
28...	1518	.84	26.0	2	<.01	--
JUN 09...	1147	.62	23.0	2	<.01	--
JUL 12...	1348	.19	32.0	8	<.01	--

Date	Suspnd. sedi- ment, sieve diametr percent <.125mm (70332)	Suspnd. sedi- ment, sieve diametr percent <.25mm (70333)	Suspnd. sedi- ment, sieve diametr percent <.5 mm (70334)	Suspnd. sedi- ment, sieve diametr percent <1 mm (70335)	Suspnd. sedi- ment, sieve diametr percent <2 mm (70336)
DEC 30...	--	--	--	--	--
FEB 25...	68	77	92	97	100
APR 06...	--	--	--	--	--
28...	--	--	--	--	--
JUN 09...	--	--	--	--	--
JUL 12...	--	--	--	--	--

< Actual value is known to be less than value shown.
e Estimated.

PAJARO RIVER BASIN

11154700 CLEAR CREEK NEAR IDRIA, CA—Continued

PARTICLE-SIZE DISTRIBUTION OF SURFACE BED MATERIAL, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Time	Number of sampling points, count (00063)	Instantaneous discharge, cfs (00061)	Temperature, water, deg C (00010)	Bed sediment, dry svd sve dia percent <.063mm (80164)	Bed sediment, dry svd sve dia percent <.125mm (80165)	Bed sediment, dry svd sve dia percent <.25mm (80166)
JUN							
09...	1220	1	.62	26.0	--	2	8
09...	1223	1	.62	26.0	--	1	2
09...	1225	1	.62	26.0	--	1	3
09...	1227	1	.62	26.0	--	1	4
09...	1229	1	.62	26.0	--	1	5
09...	1231	1	.62	26.0	--	1	4
09...	1233	1	.62	26.0	--	2	8
09...	1235	1	.62	26.0	2	8	25
09...	1238	1	.62	26.0	1	4	17

Date	Bed sediment, dry svd sve dia percent <.5 mm (80167)	Bed sediment, dry svd sve dia percent <1 mm (80168)	Bed sediment, dry svd sve dia percent <2 mm (80169)	Bed sediment, dry svd sve dia percent <4 mm (80170)	Bed sediment, dry svd sve dia percent <8 mm (80171)	Bed sediment, dry svd sve dia percent <16 mm (80172)
JUN						
09...	32	64	88	98	100	--
09...	9	25	64	92	99	100
09...	16	39	67	84	94	100
09...	20	42	66	87	97	100
09...	18	40	65	90	99	100
09...	12	26	67	96	100	--
09...	20	35	66	89	97	100
09...	59	83	92	97	99	100
09...	52	84	97	99	99	100

PARTICLE-SIZE DISTRIBUTION OF BEDLOAD, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Time	Sampling method, code (82398)	Sampler type, code (84164)	Bag mesh size, bedload sampler mm (30333)	Tether line used in sampling (yes=1) code (04117)	Startng time, 24 hour clock, hr:min (82073)	Ending time, 24 hour clock, hr:min (82074)	Rest time on bed for bed load sample, seconds (04120)
DEC								
30...	1538	1000	1150	.250	0	1535	1542	30
30...	1550	1000	1150	.250	0	1547	1554	30

Date	Horizontal width of vertical, feet (04121)	Compstd samples in x-sec bedload measmnt number (04118)	Verticals in composite sample, number (04119)	Number of sampling points, count (00063)	Location in X-sect. looking downstrm ft from l bank (00009)	Instantaneous discharge, cfs (00061)	Temperature, water, deg C (00010)	Bedload sediment discharge average unit composit t/d/ft (04122)
DEC								
30...	.5	2	13	13	1.75	3.8	9.0	.26
30...	.5	2	13	13	1.75	3.8	9.0	.28

Date	Bedload sediment discharge, tons/d (80225)	Bedload sediment, sieve diameter percent <.125mm (80227)	Bedload sediment, sieve diameter percent <.25mm (80228)	Bedload sediment, sieve diameter percent <.5 mm (80229)	Bedload sediment, sieve diameter percent <1 mm (80230)	Bedload sediment, sieve diameter percent <2 mm (80231)	Bedload sediment, sieve diameter percent <4 mm (80232)	Bedload sediment, sieve diameter percent <8 mm (80233)
DEC								
30...	1.8	--	3	20	50	80	95	100
30...	1.8	1	3	16	37	72	95	100

11156500 SAN BENITO RIVER NEAR WILLOW CREEK SCHOOL, CA

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

DRAINAGE AREA.—249 mi².

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

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

GAGE.—Water-stage recorder and crest-stage gage. Datum of gage is 925.52 ft above NGVD of 1929. Prior to Jan. 28, 1948, and Nov. 11, 1955, to Sept. 30, 1965, at site 0.9 mi downstream at different datum. Jan. 28, 1948, to Nov. 10, 1955, and Oct. 1, 1965, to Oct. 22, 1970, at present site at datum 2.37 ft higher.

REMARKS.—Records poor. Medium and low flows frequently regulated by Hernandez Reservoir 40 mi upstream beginning in December 1961, capacity, 18,500 acre-ft. Small diversions upstream from station for irrigation.

EXTREMES FOR PERIOD OF RECORD.—Maximum discharge, 9,660 ft³/s, Mar. 10, 1995, gage height, 14.55 ft, from floodmarks, from rating curve extended above 2,100 ft³/s, on basis of slope-area measurement at gage height 12.94 ft; no flow at times.

EXTREMES OUTSIDE PERIOD OF RECORD.—Flood of February 1938 reached a stage of about 9.0 ft, from floodmarks, at former site 0.9 mi downstream, referenced to datum used at that site, flow estimated at 9,000 ft³/s, based on 1941 peak and rating extrapolation.

EXTREMES FOR CURRENT YEAR.—Peak discharges greater than base discharge of 500 ft³/s, or maximum:

Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Feb. 26	0800	293	7.34

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.76	1.1	e1.5	e21	4.2	e14	3.2	2.7	1.0	0.73	0.26	0.33
2	0.80	e1.1	e1.6	e18	e12	e14	3.0	2.6	0.94	0.73	0.17	0.30
3	0.84	1.2	e1.5	e12	e13	e12	3.0	2.4	0.93	0.71	0.15	0.26
4	0.85	1.2	1.5	e9.0	e10	11	2.9	2.3	0.90	0.67	0.25	0.26
5	0.84	e1.1	1.6	e8.5	7.4	10	2.8	2.1	0.88	0.63	0.25	0.19
6	0.83	e1.0	1.6	e9.0	6.6	9.4	2.8	2.1	0.84	0.59	0.24	0.15
7	0.81	e1.1	1.6	7.7	5.9	8.4	2.7	2.1	0.80	0.56	0.24	0.18
8	0.83	e1.2	1.6	6.8	5.5	8.0	2.6	2.0	0.83	0.56	0.21	0.12
9	0.83	e1.2	1.6	5.9	5.5	7.1	2.5	2.0	0.82	0.58	0.22	0.10
10	0.85	e1.3	1.6	5.5	5.2	6.6	e2.3	2.0	0.82	0.56	0.21	0.11
11	0.87	e1.2	1.7	5.4	5.0	6.3	e2.1	2.0	0.81	0.51	0.17	0.17
12	0.86	e1.1	1.7	5.2	4.8	5.8	e2.2	2.0	0.79	0.44	0.16	0.24
13	0.86	e1.2	1.8	5.2	4.7	5.3	e2.6	2.0	0.77	0.42	0.17	0.25
14	0.86	e1.4	1.8	5.1	4.6	5.0	e3.0	1.9	0.74	0.37	0.18	0.21
15	0.87	e1.4	1.8	4.7	4.5	4.8	e3.6	1.9	0.71	0.36	0.17	0.18
16	0.87	e1.4	1.9	4.4	4.4	4.6	3.9	1.8	0.70	0.34	0.15	0.20
17	0.88	e1.4	2.0	4.1	4.7	4.3	4.0	1.7	0.72	0.32	0.14	0.19
18	0.89	e1.4	2.1	4.2	e41	4.1	4.2	1.8	0.77	0.29	0.12	0.20
19	0.89	e1.4	2.1	4.2	e16	9.0	4.4	1.6	0.78	0.28	0.19	0.23
20	0.91	e1.4	2.1	4.4	e6.1	4.0	4.0	1.8	0.76	0.28	0.20	0.22
21	0.90	e1.4	2.0	4.2	e4.8	3.9	3.6	2.0	0.74	0.29	0.21	0.21
22	0.92	e1.4	1.9	4.3	e4.5	3.7	3.3	1.9	0.75	0.29	0.22	0.17
23	0.94	e1.4	2.0	4.3	e5.2	3.6	3.1	1.7	0.75	0.29	0.21	0.16
24	e0.95	e1.4	2.2	5.7	8.7	3.6	2.8	1.7	0.80	0.28	0.21	0.16
25	e0.94	e1.4	7.4	4.9	e50	3.8	2.6	1.7	0.84	0.24	0.21	0.16
26	e0.94	e1.5	9.0	4.5	e115	4.0	2.3	1.7	0.79	0.24	0.21	0.16
27	e0.95	e1.6	7.7	4.7	e26	3.7	e2.3	1.5	0.77	0.25	0.24	0.16
28	0.95	e1.5	6.8	4.7	e11	3.5	e2.4	1.4	0.77	0.25	0.24	0.18
29	1.0	e1.4	9.3	4.4	e9.0	3.3	e2.5	1.4	0.78	0.25	0.23	0.18
30	1.1	e1.4	16	4.3	---	3.3	2.6	1.2	0.75	0.26	0.24	0.19
31	1.1	---	12	4.1	---	3.4	---	1.2	---	0.26	0.29	---
TOTAL	27.69	39.2	111.0	200.4	405.3	193.5	89.3	58.2	24.05	12.83	6.36	5.82
MEAN	0.89	1.31	3.58	6.46	14.0	6.24	2.98	1.88	0.80	0.41	0.21	0.19
MAX	1.1	1.6	16	21	115	14	4.4	2.7	1.0	0.73	0.29	0.33
MIN	0.76	1.0	1.5	4.1	4.2	3.3	2.1	1.2	0.70	0.24	0.12	0.10
AC-FT	55	78	220	397	804	384	177	115	48	25	13	12

e Estimated.

PAJARO RIVER BASIN

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

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1940 - 2004, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	6.59	5.91	15.3	32.1	69.2	76.0	41.7	21.4	19.3	14.5	13.8	11.0
MAX	53.4	51.6	181	238	869	655	532	130	88.5	79.2	71.0	67.2
(WY)	1996	1996	1956	1952	1998	1983	1958	1983	1962	1967	1967	1978
MIN	0.01	0.07	0.09	0.08	0.11	0.23	0.21	0.15	0.08	0.02	0.00	0.00
(WY)	1962	1990	1991	1990	1991	1977	1990	1961	1989	1961	1961	1961

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1940 - 2004	
ANNUAL TOTAL	1893.28		1173.65			
ANNUAL MEAN	5.19		3.21		27.0	
HIGHEST ANNUAL MEAN					126	
LOWEST ANNUAL MEAN					0.15	
HIGHEST DAILY MEAN	37	Jan 1	115	Feb 26	5000	Mar 10 1995
LOWEST DAILY MEAN	0.60	Sep 5	0.10	Sep 9	0.00	Sep 19 1947
ANNUAL SEVEN-DAY MINIMUM	0.66	Sep 5	0.15	Sep 5	0.00	Sep 19 1947
MAXIMUM PEAK FLOW			293	Feb 26	9660	Mar 10 1995
MAXIMUM PEAK STAGE			7.34	Feb 26	14.55	Mar 10 1995
ANNUAL RUNOFF (AC-FT)	3760		2330		19570	
10 PERCENT EXCEEDS	12		6.8		55	
50 PERCENT EXCEEDS	2.1		1.4		4.1	
90 PERCENT EXCEEDS	0.84		0.21		0.20	

11157500 TRES PINOS CREEK NEAR TRES PINOS, CA

LOCATION.—Lat 36°45'53", long 121°17'45", in NW 1/4 NE 1/4 sec.34, T.13 S., R.6 E., in Santa Ana y Quien Sabe Grant, [San Benito County](#), Hydrologic Unit 18060002, on right bank, 2.0 mi southeast of Tres Pinos, and 4.7 mi upstream from mouth.

DRAINAGE AREA.—208 mi².

PERIOD OF RECORD.—December 1922 to May 1923, December 1939 to September 1983, October 1996 to current year. Published as "at highway bridge, near Tres Pinos" 1923, December 1939 to November 1941. Records from this station and the "at highway bridge, near Tres Pinos" station, published as nonequivalent records in WSP 1315B, are now consider equivalent except during low-flow, due to diversion and channel losses, and are combined in this record. An annual estimate for 1940 and monthly estimates for October and November 1940 published in WSP 1315B for this station are superseded by the records from "at highway bridge, near Tres Pinos."

GAGE.—Water-stage recorder and crest-stage gage. Datum of gage is 515 ft above NGVD of 1929, from topographic map. December 1940 to September 1983 at site 1.5 mi upstream at different datum.

REMARKS.—Records fair. No regulation. Diversions above station for irrigation can divert total flow in summer months, and since 1962, diversions into basin above station from San Benito River (via Paicines Reservoir) for ground-water recharge and irrigation.

EXTREMES FOR PERIOD OF RECORD.—Maximum discharge, 27,200 ft³/s, Feb. 3, 1998, gage height, 16.00 ft, from floodmarks, from rating curve extended above 9,000 ft³/s, on basis of slope-area measurement of peak flow; no flow at times in several years.

EXTREMES OUTSIDE PERIOD OF RECORD.—Flood of February 1938 reached a stage of about 9.0 ft, from floodmarks, at datum then in use.

EXTREMES FOR CURRENT YEAR.—Peak discharges greater than base discharge of 450 ft³/s, or maximum:

Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Feb. 25	1915	1,120	4.74

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.00	0.00	0.00	0.62	0.00	9.4	0.80	0.06	0.00	0.00	0.00	0.00
2	0.00	0.00	0.00	0.91	0.07	26	0.77	0.03	0.00	0.00	0.00	0.00
3	0.00	0.00	0.00	0.57	0.45	19	0.76	0.02	0.00	0.00	0.00	0.00
4	0.00	0.00	0.00	0.33	0.47	11	0.77	0.01	0.00	0.00	0.00	0.00
5	0.00	0.00	0.00	0.20	0.16	7.6	0.77	0.02	0.00	0.00	0.00	0.00
6	0.00	0.00	0.00	0.02	0.02	5.4	0.81	0.04	0.00	0.00	0.00	0.00
7	0.00	0.00	0.00	0.00	0.00	4.0	0.93	0.03	0.00	0.00	0.00	0.00
8	0.00	0.00	0.00	0.00	0.00	2.5	0.84	0.01	0.00	0.00	0.00	0.00
9	0.00	0.00	0.00	0.00	0.00	1.7	0.81	0.01	0.00	0.00	0.00	0.00
10	0.00	0.00	0.00	0.00	0.00	1.4	0.79	0.01	0.00	0.00	0.00	0.00
11	0.00	0.00	0.00	0.00	0.00	1.5	0.78	0.02	0.00	0.00	0.00	0.00
12	0.00	0.00	0.00	0.00	0.00	1.7	0.75	0.02	0.00	0.00	0.00	0.00
13	0.00	0.00	0.00	0.00	0.00	1.4	0.68	0.00	0.00	0.00	0.00	0.00
14	0.00	0.00	0.00	0.00	0.00	1.3	0.67	0.00	0.00	0.00	0.00	0.00
15	0.00	0.00	0.00	0.00	0.00	1.1	0.64	0.00	0.00	0.00	0.00	0.00
16	0.00	0.00	0.00	0.00	0.00	1.1	0.66	0.00	0.00	0.00	0.00	0.00
17	0.00	0.00	0.00	0.00	0.00	1.0	0.61	0.00	0.00	0.00	0.00	0.00
18	0.00	0.00	0.00	0.00	13	1.0	0.66	0.00	0.00	0.00	0.00	0.00
19	0.00	0.00	0.00	0.00	20	1.1	0.65	0.00	0.00	0.00	0.00	0.00
20	0.00	0.00	0.00	0.00	0.57	1.1	0.55	0.00	0.00	0.00	0.00	0.00
21	0.00	0.00	0.00	0.00	0.36	1.0	0.52	0.00	0.00	0.00	0.00	0.00
22	0.00	0.00	0.00	0.00	0.35	1.00	0.49	0.00	0.00	0.00	0.00	0.00
23	0.00	0.00	0.00	0.00	0.33	0.97	0.40	0.00	0.00	0.00	0.00	0.00
24	0.00	0.00	0.00	0.08	0.28	0.98	0.33	0.00	0.00	0.00	0.00	0.00
25	0.00	0.00	0.00	0.00	143	1.0	0.28	0.00	0.00	0.00	0.00	0.00
26	0.00	0.00	0.00	0.00	239	1.0	0.07	0.00	0.00	0.00	0.00	0.00
27	0.00	0.00	0.00	0.00	113	0.99	0.06	0.00	0.00	0.00	0.00	0.00
28	0.00	0.00	0.00	0.00	57	0.92	0.05	0.00	0.00	0.00	0.00	0.00
29	0.00	0.00	0.00	0.00	22	0.84	0.07	0.00	0.00	0.00	0.00	0.00
30	0.00	0.00	0.38	0.00	---	0.86	0.08	0.00	0.00	0.00	0.00	0.00
31	0.00	---	0.00	0.00	---	0.84	---	0.00	---	0.00	0.00	---
TOTAL	0.00	0.00	0.38	2.73	610.06	110.70	17.05	0.28	0.00	0.00	0.00	0.00
MEAN	0.00	0.00	0.01	0.09	21.0	3.57	0.57	0.01	0.00	0.00	0.00	0.00
MAX	0.00	0.00	0.38	0.91	239	26	0.93	0.06	0.00	0.00	0.00	0.00
MIN	0.00	0.00	0.00	0.00	0.00	0.84	0.05	0.00	0.00	0.00	0.00	0.00
AC-FT	0.00	0.00	0.8	5.4	1210	220	34	0.6	0.00	0.00	0.00	0.00

PAJARO RIVER BASIN

11157500 TRES PINOS CREEK NEAR TRES PINOS, CA—Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1923 - 2004, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	2.65	3.88	15.1	37.5	63.5	37.6	23.7	6.62	4.90	4.47	4.13	3.38
MAX	7.40	23.0	205	313	835	391	327	76.1	29.8	18.9	20.6	14.1
(WY)	1970	1997	1956	1997	1998	1983	1958	1998	1998	1979	1978	1983
MIN	0.00	0.00	0.01	0.09	0.88	0.52	0.18	0.01	0.00	0.00	0.00	0.00
(WY)	2003	2003	2004	2004	1961	1948	1964	2004	2004	2002	2002	2002

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1923 - 2004	
ANNUAL TOTAL	274.07		741.20			
ANNUAL MEAN	0.75		2.03		17.0	
HIGHEST ANNUAL MEAN					98.9 1998	
LOWEST ANNUAL MEAN					0.69 1964	
HIGHEST DAILY MEAN	58	Jan 1	239	Feb 26	9000	Feb 3 1998
LOWEST DAILY MEAN	0.00	Jun 27	0.00	Oct 1	0.00	Aug 30 1940
ANNUAL SEVEN-DAY MINIMUM	0.00	Jun 27	0.00	Oct 1	0.00	Jun 19 2002
MAXIMUM PEAK FLOW			1120	Feb 25	27200	Feb 3 1998
MAXIMUM PEAK STAGE			4.74	Feb 25	16.00	Feb 3 1998
ANNUAL RUNOFF (AC-FT)	544		1470		12310	
10 PERCENT EXCEEDS	1.1		0.91		17	
50 PERCENT EXCEEDS	0.00		0.00		2.8	
90 PERCENT EXCEEDS	0.00		0.00		0.34	

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

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

DRAINAGE AREA.—607 mi².

PERIOD OF RECORD.—October 1970 to current year.

GAGE.—Water-stage recorder and crest-stage gage. Elevation of gage is 260 ft above NGVD of 1929, from topographic map.

REMARKS.—Records fair. Gage datum lowered by 3.00 ft on Oct. 1, 1999, to account for channel scour caused by 1998 flood. Low flows regulated by Hernandez Reservoir 73 mi upstream, capacity, 18,500 acre-ft. Some diversions upstream from station for irrigation, and interbasin transfer to Tres Pinos Creek for ground-water recharge. Percolation ponds are constructed upstream from station during summer months.

EXTREMES FOR PERIOD OF RECORD.—Maximum discharge, 34,500 ft³/s, Feb. 3, 1998, gage height, 13.48 ft, at datum then in use, from rating curve extended above 3,200 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 500 ft³/s, or maximum:

Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Feb. 27	0215	382	6.07

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.00	0.00	0.00	8.7	0.00	19	0.00	0.00	0.00	0.00	0.00	0.00
2	0.00	0.00	0.00	0.28	1.3	8.1	0.00	0.00	0.00	0.00	0.00	0.00
3	0.00	0.00	0.00	0.18	5.1	4.2	0.00	0.00	0.00	0.00	0.00	0.00
4	0.00	0.00	0.00	0.13	0.26	0.93	0.00	0.00	0.00	0.00	0.00	0.00
5	0.00	0.00	0.00	0.07	0.19	0.21	0.00	0.00	0.00	0.00	0.00	0.00
6	0.00	0.00	0.00	0.01	0.16	0.18	0.00	0.00	0.00	0.00	0.00	0.00
7	0.00	0.00	0.00	0.00	0.16	0.17	0.00	0.00	0.00	0.00	0.00	0.00
8	0.00	0.00	0.00	0.00	0.14	0.19	0.00	0.00	0.00	0.00	0.00	0.00
9	0.00	0.00	0.00	0.00	0.09	0.20	0.00	0.00	0.00	0.00	0.00	0.00
10	0.00	0.00	4.9	0.00	0.02	0.22	0.00	0.00	0.00	0.00	0.00	0.00
11	0.00	0.00	0.00	0.00	0.00	0.22	0.00	0.00	0.00	0.00	0.00	0.00
12	0.00	0.00	0.00	0.00	0.00	0.21	0.00	0.00	0.00	0.00	0.00	0.00
13	0.00	0.00	0.00	0.00	0.00	0.19	0.00	0.00	0.00	0.00	0.00	0.00
14	0.00	0.00	1.2	0.00	0.00	0.18	0.00	0.00	0.00	0.00	0.00	0.00
15	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00
16	0.00	0.00	0.00	0.00	0.00	0.14	0.00	0.00	0.00	0.00	0.00	0.00
17	0.00	0.00	0.00	0.00	0.79	0.12	0.00	0.00	0.00	0.00	0.00	0.00
18	0.00	0.00	0.00	0.00	10	0.09	0.00	0.00	0.00	0.00	0.00	0.00
19	0.00	0.00	0.18	0.00	2.3	0.07	0.00	0.00	0.00	0.00	0.00	0.00
20	0.00	0.00	0.02	0.00	0.26	0.04	0.00	0.00	0.00	0.00	0.00	0.00
21	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00
22	0.00	0.00	0.00	0.00	0.42	0.00	0.00	0.00	0.00	0.00	0.00	0.00
23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
24	0.00	0.00	0.11	0.34	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
25	0.00	0.00	12	0.00	30	0.08	0.00	0.00	0.00	0.00	0.00	0.00
26	0.00	0.00	0.28	0.00	e130	0.06	0.00	0.00	0.00	0.00	0.00	0.00
27	0.00	0.00	0.00	0.00	216	0.01	0.00	0.00	0.00	0.00	0.00	0.00
28	0.00	0.00	0.00	0.00	93	0.00	0.00	0.00	0.00	0.00	0.00	0.00
29	0.00	0.00	12	0.00	39	0.00	0.00	0.00	0.00	0.00	0.00	0.00
30	0.00	0.00	6.2	0.00	---	0.00	0.00	0.00	0.00	0.00	0.00	0.00
31	0.00	---	0.15	0.00	---	0.00	---	0.00	---	0.00	0.00	---
TOTAL	0.00	0.00	37.04	9.71	529.19	34.98	0.00	0.00	0.00	0.00	0.00	0.00
MEAN	0.00	0.00	1.19	0.31	18.2	1.13	0.00	0.00	0.00	0.00	0.00	0.00
MAX	0.00	0.00	12	8.7	216	19	0.00	0.00	0.00	0.00	0.00	0.00
MIN	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
AC-FT	0.00	0.00	73	19	1050	69	0.00	0.00	0.00	0.00	0.00	0.00

e Estimated.

PAJARO RIVER BASIN

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

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1971 - 2004, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	2.65	6.10	18.2	66.6	158	134	38.9	15.4	6.97	4.85	4.67	4.40
MAX	10.4	54.4	175	581	2350	1545	381	233	76.3	28.3	19.5	16.3
(WY)	1996	1997	1997	1997	1998	1983	1998	1998	1998	1998	1995	1973
MIN	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
(WY)	1973	1975	1977	1977	1977	1977	1977	1976	1972	1972	1972	1972

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1971 - 2004	
ANNUAL TOTAL	181.32		610.92			
ANNUAL MEAN	0.50		1.67		37.8	
HIGHEST ANNUAL MEAN					287 1998	
LOWEST ANNUAL MEAN					0.00 1977	
HIGHEST DAILY MEAN	37	Jan 1	216	Feb 27	19800	Feb 3 1998
LOWEST DAILY MEAN	0.00	Feb 2	0.00	Oct 1	0.00	Feb 1 1971
ANNUAL SEVEN-DAY MINIMUM	0.00	Feb 2	0.00	Oct 1	0.00	Oct 11 1971
MAXIMUM PEAK FLOW			382 Feb 27		34500 Feb 3 1998	
MAXIMUM PEAK STAGE			6.07 Feb 27		13.48 Feb 3 1998	
ANNUAL RUNOFF (AC-FT)	360		1210		27360	
10 PERCENT EXCEEDS	0.24		0.18		34	
50 PERCENT EXCEEDS	0.00		0.00		0.78	
90 PERCENT EXCEEDS	0.00		0.00		0.00	

11159000 PAJARO RIVER AT CHITTENDEN, CA

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

DRAINAGE AREA.—1,186 mi².

PERIOD OF RECORD.—October 1939 to current year. Monthly discharge only for some periods, published in WSP 1315-B. Prior to October 1954, published as "near Chittenden."

CHEMICAL DATA: Water years 1952–92.

BIOLOGICAL DATA: Water years 1978–81.

SPECIFIC CONDUCTANCE: Water years 1978–81, daily.

WATER TEMPERATURE: Water years 1978–81, daily.

SEDIMENT DATA: Water years 1978–92.

GAGE.—Water-stage recorder and crest-stage gage. Datum of gage is 81.89 ft above NGVD of 1929. Prior to May 13, 1949, nonrecording gage on former bridge 100 ft downstream at same datum, except for periods in 1947 and 1948 when a water-stage recorder was in use.

REMARKS.—Records fair. Low flows regulated by Hernandez Reservoir, capacity, 18,500 acre-ft; Pacheco Lake, capacity, 6,140 acre-ft; Chesbro Reservoir, capacity, 8,090 acre-ft; Uvas Reservoir, capacity, 9,950 acre-ft; and San Felipe Lake. Many diversions upstream from station for irrigation.

EXTREMES FOR PERIOD OF RECORD.—Maximum discharge, 25,100 ft³/s, Feb. 3, 1998, gage height, 33.73 ft, from rating curve extended above 8,300 ft³/s, on basis of slope-conveyance study; no flow at times in July and August 1948.

EXTREMES OUTSIDE PERIOD OF RECORD.—Flood of February 1938 reached a stage of 31.3 ft, from floodmarks.

EXTREMES FOR CURRENT YEAR.—Peak discharges greater than base discharge of 500 ft³/s, or maximum:

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Jan. 2	0515	3,210	16.11	Feb. 26	0445	3,560	16.75
Feb. 18	1900	610	8.87				

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6.1	10	18	681	66	678	73	33	20	11	8.6	13
2	6.0	11	18	2270	92	583	70	32	19	11	8.5	13
3	6.2	12	18	736	223	498	67	30	19	12	7.6	13
4	6.0	14	18	540	222	433	65	30	18	12	6.8	12
5	5.8	15	19	457	166	363	64	29	16	12	6.8	10
6	5.6	16	20	374	143	315	63	30	16	11	6.8	9.9
7	5.6	18	22	316	129	287	61	31	15	11	7.0	8.7
8	5.7	19	24	281	117	270	62	30	15	11	7.2	8.2
9	6.0	22	23	258	106	234	60	30	15	11	7.2	8.2
10	6.0	22	29	244	98	187	58	31	15	11	7.3	7.7
11	6.1	22	46	235	91	166	56	30	15	11	8.0	7.4
12	6.1	22	34	229	86	152	57	30	15	e10	9.5	7.2
13	5.9	22	26	220	81	143	55	29	15	e10	10	7.3
14	6.1	22	29	216	77	136	53	27	14	9.9	12	6.8
15	6.4	23	30	e210	74	130	51	25	13	9.4	13	6.6
16	6.8	24	25	e201	76	120	50	25	13	9.5	13	6.7
17	6.7	24	24	e191	79	109	49	25	12	9.6	13	6.6
18	6.8	24	24	e174	348	104	54	25	12	9.4	14	6.0
19	7.1	23	25	e150	315	99	51	24	11	9.1	15	6.1
20	6.9	23	27	e125	233	93	49	23	12	8.6	15	6.1
21	6.6	22	28	97	214	88	49	23	12	7.9	15	6.1
22	6.6	20	26	85	243	86	49	22	12	8.7	15	5.7
23	7.0	19	26	78	246	84	46	21	12	8.4	15	5.6
24	7.0	18	40	86	200	80	44	22	12	8.8	15	5.7
25	6.9	19	134	87	606	79	40	22	11	9.0	15	5.6
26	7.4	18	148	76	3050	92	38	22	11	9.3	15	5.6
27	7.3	18	92	73	1940	84	36	21	11	8.7	15	5.6
28	7.3	17	70	73	1170	80	36	22	10	8.6	15	6.1
29	7.7	17	115	71	823	79	34	21	10	8.5	15	5.9
30	8.1	18	1170	69	---	77	34	21	10	8.4	15	6.9
31	9.0	---	469	68	---	75	---	20	---	8.8	13	---
TOTAL	204.8	574	2817	8971	11314	6004	1574	806	411	304.6	359.3	229.3
MEAN	6.61	19.1	90.9	289	390	194	52.5	26.0	13.7	9.83	11.6	7.64
MAX	9.0	24	1170	2270	3050	678	73	33	20	12	15	13
MIN	5.6	10	18	68	66	75	34	20	10	7.9	6.8	5.6
AC-FT	406	1140	5590	17790	22440	11910	3120	1600	815	604	713	455

e Estimated.

PAJARO RIVER BASIN

11159000 PAJARO RIVER AT CHITTENDEN, CA—Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1940 - 2004, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	5.55	31.4	149	429	627	457	244	52.8	16.8	8.31	6.52	6.55
MAX	22.7	843	1990	3779	6978	4227	3165	646	162	32.1	22.8	93.3
(WY)	1984	1951	1956	1997	1998	1983	1958	1983	1998	1998	1998	1959
MIN	0.10	0.27	0.60	1.22	1.28	1.50	0.97	0.75	0.66	0.37	0.37	0.24
(WY)	1962	1993	1962	1991	1991	1977	1977	1977	1977	1961	1948	1961

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1940 - 2004	
ANNUAL TOTAL	23039.0		33569.0			
ANNUAL MEAN	63.1		91.7		167	
HIGHEST ANNUAL MEAN					905	
LOWEST ANNUAL MEAN					1.06	
HIGHEST DAILY MEAN	1250	Jan 1	3050	Feb 26	21700	Dec 24 1955
LOWEST DAILY MEAN	5.6	Oct 6	5.6	Oct 6	0.00	Jul 11 1948
ANNUAL SEVEN-DAY MINIMUM	5.8	Oct 4	5.7	Sep 21	0.00	Aug 16 1948
MAXIMUM PEAK FLOW			3560	Feb 26	25100	Feb 3 1998
MAXIMUM PEAK STAGE			16.75	Feb 26	33.73	Feb 3 1998
INSTANTANEOUS LOW FLOW					0.00	Jul 11 1948
ANNUAL RUNOFF (AC-FT)	45700		66580		121000	
10 PERCENT EXCEEDS	99		217		258	
50 PERCENT EXCEEDS	22		22		12	
90 PERCENT EXCEEDS	7.3		6.8		1.3	

11159200 CORRALITOS CREEK AT FREEDOM, CA

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

DRAINAGE AREA.—27.8 mi².

PERIOD OF RECORD.—October 1956 to current year.

SEDIMENT DATA: Water years 1976–77, 1980–81.

GAGE.—Water-stage recorder. Datum of gage is 89.43 ft above NGVD of 1929.

REMARKS.—Records fair except those less than 1 ft³/s, which are poor. No regulation. Watsonville Water Works can divert up to 8.0 ft³/s upstream from station for municipal supply, domestic use, and irrigation.

EXTREMES FOR PERIOD OF RECORD.—Maximum discharge, 5,610 ft³/s, Jan. 4, 1982, gage height, 16.66 ft, from rating curve extended above 1,400 ft³/s, on basis of slope-area measurement of peak flow; no flow at times.

EXTREMES OUTSIDE PERIOD OF RECORD.—Flood of Dec. 22, 1955, reached a stage of 15.6 ft, from floodmarks, discharge, 3,620 ft³/s, based on contracted-opening measurement of peak flow.

EXTREMES FOR CURRENT YEAR.—Peak discharges greater than base discharge of 600 ft³/s, or maximum:

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Dec. 29	1930	1,420	8.59	Feb. 25	1400	1,670	9.19
Jan. 1	1515	2,050	10.03				

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.00	0.00	0.70	523	2.1	48	3.0	0.27	0.06	0.03	0.01	0.00
2	0.00	0.00	0.31	202	44	40	1.8	0.26	0.05	0.13	0.00	0.00
3	0.00	0.62	0.16	85	49	33	1.3	0.23	0.05	0.14	0.00	0.00
4	0.00	0.00	0.04	51	28	28	0.77	0.26	0.04	0.23	0.00	0.00
5	0.00	0.00	0.17	37	20	24	1.3	0.26	0.04	0.14	0.00	0.00
6	0.00	0.00	1.0	29	15	22	1.9	0.21	0.02	0.14	0.00	0.00
7	0.00	0.08	15	23	11	19	1.9	0.28	0.01	0.18	0.00	0.00
8	0.00	1.3	2.4	18	9.5	17	1.9	0.28	0.01	0.20	0.00	0.00
9	0.00	11	0.59	14	8.0	16	0.71	0.26	0.20	0.11	0.00	0.00
10	0.00	0.40	7.0	12	6.8	14	0.50	0.29	0.04	0.08	0.00	0.00
11	0.00	0.03	14	10	5.5	13	0.42	0.27	0.04	0.06	0.00	0.00
12	0.00	0.00	3.6	8.2	4.8	12	0.38	0.26	0.05	0.04	0.00	0.00
13	0.30	0.00	1.4	7.0	4.2	11	0.38	0.24	0.03	0.02	0.03	0.00
14	0.00	0.00	11	6.0	3.7	10	0.31	0.25	0.02	0.04	0.00	0.00
15	0.00	0.25	6.3	5.4	3.1	9.4	0.30	0.23	0.05	0.00	0.00	0.00
16	0.00	0.03	2.0	4.7	8.6	8.8	0.30	0.19	0.04	0.01	0.00	0.00
17	0.00	0.00	0.76	4.0	19	7.9	0.55	0.15	0.11	0.00	0.00	0.00
18	0.00	0.00	0.28	3.5	247	6.7	2.8	0.17	0.11	0.00	0.00	0.00
19	0.00	0.00	0.87	3.7	78	5.6	2.2	0.17	0.09	0.00	0.00	0.00
20	0.00	0.00	4.0	3.4	55	6.1	3.4	0.22	0.06	0.00	0.00	0.00
21	0.00	0.00	4.0	2.4	44	5.8	0.93	0.23	0.05	0.00	0.00	0.00
22	0.00	0.00	2.2	2.2	39	5.7	0.44	0.21	0.09	0.00	0.00	0.00
23	0.00	0.00	2.2	2.2	33	4.9	0.42	0.19	0.04	0.06	0.00	0.00
24	0.00	0.00	62	5.0	36	4.2	0.35	0.18	0.04	0.09	0.00	0.00
25	0.00	0.00	33	2.8	405	6.6	0.32	0.15	0.06	0.03	0.00	0.00
26	0.00	0.00	15	2.1	171	10	0.30	0.15	0.03	0.03	0.00	0.00
27	0.00	0.00	7.5	4.1	90	6.0	0.26	0.15	0.01	0.03	0.00	0.00
28	0.00	0.00	4.5	6.6	62	5.1	0.29	0.25	0.03	0.04	0.00	0.00
29	0.00	0.00	359	3.6	49	4.3	0.31	0.11	0.05	0.01	0.00	0.00
30	0.00	0.07	156	2.8	---	3.5	0.29	0.08	0.03	0.02	0.00	0.00
31	0.00	---	57	2.3	---	3.4	---	0.06	---	0.03	0.00	---
TOTAL	0.30	13.78	773.98	1086.0	1551.3	411.0	30.03	6.51	1.55	1.89	0.04	0.00
MEAN	0.01	0.46	25.0	35.0	53.5	13.3	1.00	0.21	0.05	0.06	0.00	0.00
MAX	0.30	11	359	523	405	48	3.4	0.29	0.20	0.23	0.03	0.00
MIN	0.00	0.00	0.04	2.1	2.1	3.4	0.26	0.06	0.01	0.00	0.00	0.00
AC-FT	0.6	27	1540	2150	3080	815	60	13	3.1	3.7	0.08	0.00

PAJARO RIVER BASIN

11159200 CORRALITOS CREEK AT FREEDOM, CA—Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1957 - 2004, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	0.76	4.94	18.8	50.1	59.6	36.2	20.9	5.14	1.08	0.40	0.18	0.56
MAX	17.4	37.3	208	248	263	209	166	39.1	9.10	4.77	1.15	20.8
(WY)	1963	1984	1997	1997	1998	1983	1958	1983	1983	1983	1983	1959
MIN	0.00	0.00	0.00	0.00	0.00	0.08	0.00	0.00	0.00	0.00	0.00	0.00
(WY)	1962	1981	1991	1991	1991	1988	1977	1977	1962	1961	1961	1961

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1957 - 2004	
ANNUAL TOTAL	2216.51		3876.38			
ANNUAL MEAN	6.07		10.6		16.3	
HIGHEST ANNUAL MEAN					56.4 1983	
LOWEST ANNUAL MEAN					0.17 1977	
HIGHEST DAILY MEAN	359	Dec 29	523	Jan 1	2290	Jan 4 1982
LOWEST DAILY MEAN	0.00	Aug 6	0.00	Oct 1	0.00	Jun 12 1957
ANNUAL SEVEN-DAY MINIMUM	0.00	Aug 6	0.00	Oct 1	0.00	Jun 12 1957
MAXIMUM PEAK FLOW			2050	Jan 1	5610	Jan 4 1982
MAXIMUM PEAK STAGE			10.03	Jan 1	16.66	Jan 4 1982
ANNUAL RUNOFF (AC-FT)	4400		7690		11830	
10 PERCENT EXCEEDS	14		18		33	
50 PERCENT EXCEEDS	0.33		0.17		0.40	
90 PERCENT EXCEEDS	0.00		0.00		0.00	

11160000 SOQUEL CREEK AT SOQUEL, CA

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

DRAINAGE AREA.—40.2 mi².

PERIOD OF RECORD.—May 1951 to current year.

CHEMICAL DATA: Water years 1952–66, 1977.

WATER TEMPERATURE: Water years 1966–79.

SEDIMENT DATA: Water years 1976–77, 1990–93.

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

GAGE.—Water-stage recorder and crest-stage gage. Datum of gage is 21.38 ft above NGVD of 1929.

REMARKS.—Records good except for flows below 5 ft³/s, which are fair. No regulation; many diversions upstream from station for irrigation.

EXTREMES FOR PERIOD OF RECORD.—Maximum discharge, 15,800 ft³/s, Dec. 23, 1955, gage height, 22.33 ft, from rating curve extended above 2,900 ft³/s, on basis of slope-area measurement of peak flow; no flow at times in 1977, 1988, 1992–1995.

EXTREMES OUTSIDE PERIOD OF RECORD.—Flood of Feb. 13, 1937, reached a discharge of 5,950 ft³/s, gage height, 12.6 ft, from floodmarks, from precipitation records and comparison with nearby streams. Flood of Nov. 18, 1950, reached a discharge of about 7,800 ft³/s, gage height about 15.33 ft, from rating curve extended above 2,900 ft³/s, on basis of slope-area measurement of peak flow at gage height 22.33 ft.

EXTREMES FOR CURRENT YEAR.—Peak discharges greater than base discharge of 1,000 ft³/s, or maximum:

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Dec. 29	1845	5,060	13.48	Feb. 18	0200	1,320	7.28
Jan. 1	1400	4,190	12.31	Feb. 25	1315	3,160	10.79

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.8	2.3	16	1040	18	125	24	11	5.2	3.3	2.6	1.7
2	2.0	2.2	30	277	134	106	24	10	5.1	3.3	2.5	1.6
3	1.9	6.5	13	136	114	91	22	10	5.0	3.3	2.6	1.6
4	1.6	2.9	8.5	94	74	81	22	9.4	4.8	3.5	2.7	1.3
5	1.6	2.3	10	74	56	73	21	9.0	4.6	3.4	2.6	1.2
6	1.6	2.4	13	63	46	67	21	8.8	4.5	3.3	2.4	1.1
7	1.6	5.6	55	54	40	62	20	8.9	4.3	3.2	2.2	1.0
8	1.6	19	16	48	35	58	20	8.8	4.4	3.6	2.3	0.99
9	1.4	45	9.5	45	32	53	19	8.4	4.4	3.7	2.3	0.90
10	1.6	17	44	46	29	50	19	8.4	4.4	3.3	2.1	0.94
11	1.4	6.9	41	39	27	47	19	8.2	4.4	3.3	2.2	1.1
12	1.4	5.0	18	35	25	45	18	8.0	4.4	3.2	2.2	1.1
13	1.4	4.5	13	32	23	42	17	7.7	4.4	3.0	2.3	1.0
14	1.3	4.8	50	31	22	39	17	7.6	4.3	2.8	2.2	0.96
15	1.3	7.1	28	29	21	37	17	7.4	4.2	2.7	2.1	0.89
16	1.4	6.0	16	27	37	34	17	7.5	4.1	2.7	2.1	0.91
17	1.4	5.2	12	26	51	33	18	7.2	4.4	2.7	2.0	1.0
18	1.4	4.8	9.3	24	595	31	19	7.1	4.5	2.7	2.0	0.93
19	1.4	4.7	12	23	164	30	17	7.0	4.3	2.6	2.0	1.0
20	1.5	4.6	23	23	117	28	23	6.8	4.0	2.5	2.1	1.6
21	1.5	4.5	59	21	98	28	19	6.6	3.9	2.6	2.0	1.1
22	1.7	4.7	26	20	92	27	17	6.4	3.7	2.8	2.1	0.98
23	1.8	4.6	34	19	80	26	15	6.4	3.6	2.8	2.2	0.87
24	1.7	4.6	305	26	91	24	15	6.3	3.6	3.0	2.1	0.83
25	1.4	4.7	122	21	799	30	14	6.5	3.5	3.0	1.9	0.90
26	1.4	4.7	71	19	350	41	13	6.1	3.2	2.9	1.7	0.96
27	1.4	4.8	45	24	221	31	12	6.3	3.1	2.8	1.6	1.0
28	1.4	5.2	34	27	159	29	12	6.6	3.2	2.8	1.6	1.1
29	1.7	5.2	1320	22	126	28	12	6.6	3.3	2.7	1.7	1.2
30	2.6	7.5	327	20	---	26	11	5.9	3.4	2.7	1.9	1.3
31	3.2	---	97	19	---	26	---	5.5	---	2.7	1.8	---
TOTAL	50.4	209.3	2877.3	2404	3676	1448	534	236.4	124.2	92.9	66.1	33.06
MEAN	1.63	6.98	92.8	77.5	127	46.7	17.8	7.63	4.14	3.00	2.13	1.10
MAX	3.2	45	1320	1040	799	125	24	11	5.2	3.7	2.7	1.7
MIN	1.3	2.2	8.5	19	18	24	11	5.5	3.1	2.5	1.6	0.83
AC-FT	100	415	5710	4770	7290	2870	1060	469	246	184	131	66

SOQUEL CREEK BASIN

11160000 SOQUEL CREEK AT SOQUEL, CA—Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1951 - 2004, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	6.15	15.9	61.8	121	127	93.5	52.7	20.2	9.55	5.37	3.37	3.20
MAX	111	78.5	625	437	596	577	324	95.9	34.9	17.8	10.9	22.4
(WY)	1963	1973	1956	1997	1986	1983	1982	1983	1998	1998	1998	1959
MIN	0.65	1.36	2.74	2.57	3.96	3.97	2.81	2.26	0.91	0.26	0.17	0.06
(WY)	1989	1991	1991	1991	1977	1988	1977	1977	1977	1977	1977	1994

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1951 - 2004	
ANNUAL TOTAL	9683.2		11751.66			
ANNUAL MEAN	26.5		32.1		42.9	
HIGHEST ANNUAL MEAN					169 1983	
LOWEST ANNUAL MEAN					2.89 1977	
HIGHEST DAILY MEAN	1320	Dec 29	1320	Dec 29	8800	Dec 23 1955
LOWEST DAILY MEAN	1.3	Oct 14	0.83	Sep 24	0.00	Jul 30 1977
ANNUAL SEVEN-DAY MINIMUM	1.4	Oct 11	0.95	Sep 21	0.00	Aug 15 1992
MAXIMUM PEAK FLOW			5060 Dec 29		15800 Dec 23 1955	
MAXIMUM PEAK STAGE			13.48 Dec 29		22.33 Dec 23 1955	
INSTANTANEOUS LOW FLOW					0.00 Jul 30 1977	
ANNUAL RUNOFF (AC-FT)	19210		23310		31060	
10 PERCENT EXCEEDS	53		57		85	
50 PERCENT EXCEEDS	15		6.4		7.9	
90 PERCENT EXCEEDS	1.8		1.4		1.6	

11160430 BEAN CREEK NEAR SCOTTS VALLEY, CA

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

DRAINAGE AREA.—8.81 mi².

PERIOD OF RECORD.—January 1989 to current year.

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

GAGE.—Water-stage recorder and crest-stage gage. Elevation of gage is 320 ft above NGVD of 1929, from topographic map.

REMARKS.—Records fair except estimated daily discharges, which are poor. No regulation; small diversions upstream from station for domestic use.

EXTREMES FOR PERIOD OF RECORD.—Maximum discharge, 1,870 ft³/s, Dec. 16, 2002, gage height, 11.28 ft, from rating curve extended above 310 ft³/s, on basis of slope-area measurement at gage height 9.29 ft; minimum daily, 0.94 ft³/s, Jan. 31, 1992.

EXTREMES FOR CURRENT YEAR.—Peak discharges greater than base discharge of 200 ft³/s, or maximum:

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Dec. 29	1815	1,210	9.66	Feb. 25	1230	1,010	9.08
Jan. 1	1330	1,270	9.82				

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.0	2.1	7.9	380	5.1	e31	5.8	3.8	2.9	2.7	2.2	2.1
2	1.9	2.1	4.7	e105	30	e30	5.7	3.7	2.8	2.7	2.3	2.1
3	1.8	3.4	3.0	e45	25	27	5.7	3.6	2.8	2.6	2.2	2.0
4	1.8	1.9	2.7	e36	20	25	5.7	3.6	2.8	2.6	2.1	2.0
5	1.8	1.9	3.1	e30	18	23	5.5	3.5	2.8	2.6	2.1	2.1
6	1.8	1.9	6.9	e28	15	21	5.3	3.5	2.7	2.6	2.1	2.1
7	1.8	3.0	5.2	e22	12	19	5.3	3.6	2.8	2.6	2.1	2.1
8	1.8	5.0	3.2	e20	9.4	18	5.2	3.5	2.8	2.5	2.1	2.1
9	1.8	3.4	2.9	e18	7.6	e15	5.1	3.6	2.7	2.5	2.1	2.1
10	1.9	2.4	11	e17	6.3	e14	e4.8	3.6	2.7	2.4	2.1	2.1
11	1.9	2.1	5.3	e15	5.6	e12	e4.8	3.6	2.7	2.4	2.1	2.1
12	1.9	2.1	3.5	10	5.1	e11	e4.8	3.5	2.6	2.4	2.1	2.1
13	1.9	2.1	3.2	7.8	4.5	10	e4.6	3.5	2.6	2.4	2.0	2.0
14	1.9	2.5	10	7.2	4.2	9.2	4.7	3.4	2.7	2.4	2.0	2.0
15	1.9	2.7	4.1	6.8	3.8	8.7	4.7	3.3	2.8	2.4	2.0	2.1
16	1.9	2.2	3.5	6.3	9.7	8.2	4.6	3.2	2.8	2.3	2.0	2.1
17	1.9	2.1	3.3	6.2	16	7.9	4.7	3.1	2.9	2.3	2.0	2.1
18	1.9	2.1	3.0	5.8	82	7.7	4.7	3.0	2.8	2.3	2.0	2.2
19	1.9	2.0	5.6	5.7	35	7.5	4.7	3.0	2.8	2.3	2.1	2.4
20	1.9	2.0	7.2	5.6	26	7.2	6.6	3.0	2.7	2.3	2.1	2.1
21	1.9	2.0	9.0	5.5	21	7.1	4.7	3.0	2.7	2.3	2.1	2.1
22	1.9	2.1	4.7	5.3	21	7.3	4.5	3.0	2.7	2.3	2.0	2.0
23	1.9	2.1	15	5.5	18	7.3	4.4	2.9	2.7	2.3	2.1	2.0
24	1.8	2.1	54	7.3	22	7.1	4.4	3.0	2.7	2.3	2.0	2.0
25	1.9	2.1	24	5.5	277	11	4.3	3.0	2.6	2.2	2.0	2.1
26	2.0	2.1	15	5.2	e82	7.7	4.1	2.9	2.7	2.3	2.0	2.1
27	2.0	2.1	9.2	7.3	e56	6.7	4.0	2.9	2.8	2.3	2.0	2.1
28	2.0	2.1	7.2	5.5	e42	6.5	4.0	3.1	2.8	2.3	2.1	2.2
29	2.0	2.2	337	5.3	e37	6.3	3.9	3.0	2.7	2.3	2.1	2.2
30	2.0	4.6	105	5.2	---	6.2	3.9	2.9	2.7	2.3	2.1	2.2
31	2.2	---	50	5.1	---	6.1	---	2.9	---	2.3	2.1	---
TOTAL	59.0	72.5	729.4	840.1	916.3	391.7	145.2	101.2	82.3	74.5	64.4	63.0
MEAN	1.90	2.42	23.5	27.1	31.6	12.6	4.84	3.26	2.74	2.40	2.08	2.10
MAX	2.2	5.0	337	380	277	31	6.6	3.8	2.9	2.7	2.3	2.4
MIN	1.8	1.9	2.7	5.1	3.8	6.1	3.9	2.9	2.6	2.2	2.0	2.0
AC-FT	117	144	1450	1670	1820	777	288	201	163	148	128	125

e Estimated.

SAN LORENZO RIVER BASIN

11160430 BEAN CREEK NEAR SCOTTS VALLEY, CA—Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1989 - 2004, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	2.40	3.52	15.2	34.5	38.7	21.2	7.91	5.08	3.29	2.46	2.15	2.06
MAX	3.79	5.89	72.5	99.7	167	71.8	21.7	12.2	9.41	4.89	3.31	2.63
(WY)	2001	1998	1997	1995	1998	1995	1998	1998	1998	1998	1998	1998
MIN	1.90	1.96	2.16	2.11	2.42	3.81	2.62	2.33	1.79	1.71	1.84	1.73
(WY)	2004	1993	1991	1991	1991	1994	1990	1989	1994	1991	1989	2001

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1989 - 2004	
ANNUAL TOTAL	2703.6		3539.6			
ANNUAL MEAN	7.41		9.67		11.7	
HIGHEST ANNUAL MEAN					26.0 1998	
LOWEST ANNUAL MEAN					3.00 1990	
HIGHEST DAILY MEAN	337	Dec 29	380	Jan 1	900	Dec 10 1996
LOWEST DAILY MEAN	1.8	Sep 7	1.8	Oct 3	0.94	Jan 31 1992
ANNUAL SEVEN-DAY MINIMUM	1.8	Oct 3	1.8	Oct 3	1.00	Jan 21 1992
MAXIMUM PEAK FLOW			1270	Jan 1	1870	Dec 16 2002
MAXIMUM PEAK STAGE			9.82	Jan 1	11.28	Dec 16 2002
ANNUAL RUNOFF (AC-FT)	5360		7020		8450	
10 PERCENT EXCEEDS	14		18		24	
50 PERCENT EXCEEDS	3.7		2.9		2.8	
90 PERCENT EXCEEDS	1.9		2.0		1.9	

11160500 SAN LORENZO RIVER AT BIG TREES, CA

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

DRAINAGE AREA.—106 mi².

PERIOD OF RECORD.—October 1936 to current year. Monthly discharge only for some periods, published in WSP 1315-B.

CHEMICAL DATA: Water years 1906–07, 1952–67, 1969–70, 1973–75, 1977, 1980–81.

WATER TEMPERATURE: Water years 1965–82, daily.

SEDIMENT DISCHARGE: Water years 1973–82, daily; 1986, 1990–93, monthly.

REVISED RECORDS.—WSP 1315-B: 1938(M). WSP 1715: Drainage area.

GAGE.—Water-stage recorder and crest-stage gage. Datum of gage is 227.00 ft above NGVD of 1929. Prior to Oct. 6, 1972, at site 1.3 mi downstream at different datum.

REMARKS.—Records fair. Low flow partially regulated by Loch Lomond Reservoir since 1961, capacity, 8,820 acre-ft, and by an inflatable fiber dam located 500 ft upstream from gage. Many small diversions upstream from station for domestic supply.

EXTREMES FOR PERIOD OF RECORD.—Maximum discharge, 30,400 ft³/s, Dec. 23, 1955, gage height, 22.55 ft, site and datum then in use, from rating curve extended above 11,000 ft³/s, on basis of slope-area measurement of peak flow, maximum gage height, 28.85 ft, Jan. 5, 1982; minimum daily discharge, 5.6 ft³/s, July 27, 28, 1977.

EXTREMES FOR CURRENT YEAR.—Peak discharges greater than base discharge of 1,800 ft³/s, or maximum:

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Dec. 24	1200	1,890	8.62	Feb. 18	0145	2,260	9.15
Dec. 29	1900	10,200	15.96	Feb. 25	1315	8,430	14.82
Jan. 1	1400	11,200	16.56				

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	16	17	100	3000	83	503	91	47	31	24	18	15
2	16	17	83	1020	385	428	88	46	31	24	18	15
3	16	28	39	556	362	364	85	45	31	24	18	14
4	16	19	30	387	305	328	83	44	31	23	18	14
5	16	18	33	305	221	307	82	43	30	23	18	14
6	15	18	51	263	181	268	78	43	29	22	17	14
7	15	24	89	230	159	247	76	43	29	22	17	13
8	15	37	44	203	142	215	75	42	29	23	17	13
9	15	104	35	190	130	213	73	41	30	23	17	13
10	15	55	138	189	118	201	72	41	29	22	16	14
11	15	27	94	164	111	187	70	40	29	21	16	14
12	15	23	54	149	106	189	69	40	29	20	16	14
13	15	21	46	121	100	174	66	40	28	20	16	14
14	15	23	177	126	96	161	64	39	27	20	16	14
15	15	27	83	140	92	152	63	38	27	19	16	14
16	15	26	54	119	179	143	63	38	26	19	16	14
17	15	23	44	112	316	136	63	37	27	19	16	14
18	15	22	39	106	1360	131	62	37	28	18	16	15
19	15	22	52	100	528	124	62	36	27	18	16	16
20	15	22	91	99	365	120	86	36	26	18	16	17
21	15	21	315	97	297	117	67	36	25	18	16	16
22	15	21	107	92	282	112	63	36	25	19	16	15
23	15	20	162	89	232	109	59	36	25	19	16	15
24	15	21	857	105	285	105	57	36	25	19	16	15
25	15	21	334	91	2660	151	55	36	24	18	16	14
26	17	21	191	88	1420	159	53	35	23	18	15	14
27	15	21	127	90	912	112	50	34	24	18	15	14
28	15	21	101	95	690	105	50	35	24	18	14	15
29	15	21	3120	88	533	99	49	34	24	18	15	15
30	15	35	1350	85	---	95	48	33	24	19	15	15
31	16	---	508	83	---	94	---	32	---	19	15	---
TOTAL	473	796	8548	8582	12650	5849	2022	1199	817	625	503	433
MEAN	15.3	26.5	276	277	436	189	67.4	38.7	27.2	20.2	16.2	14.4
MAX	17	104	3120	3000	2660	503	91	47	31	24	18	17
MIN	15	17	30	83	83	94	48	32	23	18	14	13
AC-FT	938	1580	16950	17020	25090	11600	4010	2380	1620	1240	998	859

SAN LORENZO RIVER BASIN

11160500 SAN LORENZO RIVER AT BIG TREES, CA—Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1937 - 2004, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	22.9	52.8	158	318	408	294	171	73.0	41.4	27.0	20.2	18.2
MAX	176	461	1319	1242	1853	1483	1005	322	131	65.8	44.0	52.1
(WY)	1963	1951	1956	1952	1998	1983	1958	1983	1998	1983	1983	1959
MIN	8.26	11.4	14.7	13.8	16.6	21.4	12.3	11.6	9.37	6.66	6.50	8.28
(WY)	1978	1991	1991	1991	1977	1977	1977	1977	1977	1977	1977	1991

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1937 - 2004	
ANNUAL TOTAL	32454		42497			
ANNUAL MEAN	88.9		116		132	
HIGHEST ANNUAL MEAN					391	
LOWEST ANNUAL MEAN					13.2	
HIGHEST DAILY MEAN	3120	Dec 29	3120	Dec 29	17000	Dec 23 1955
LOWEST DAILY MEAN	15	Sep 22	13	Sep 7	5.6	Jul 27 1977
ANNUAL SEVEN-DAY MINIMUM	15	Oct 6	14	Sep 3	5.8	Jul 26 1977
MAXIMUM PEAK FLOW			11200		30400	
MAXIMUM PEAK STAGE			16.56		28.85	
INSTANTANEOUS LOW FLOW					5.6	
ANNUAL RUNOFF (AC-FT)	64370		84290		95820	
10 PERCENT EXCEEDS	176		224		275	
50 PERCENT EXCEEDS	51		34		34	
90 PERCENT EXCEEDS	16		15		13	

11161000 SAN LORENZO RIVER AT SANTA CRUZ, CA

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

DRAINAGE AREA.—115 mi².

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

GAGE.—Water-stage recorder and crest-stage gage. Datum of gage is 5.84 ft above NGVD of 1929 (levels by city of Santa Cruz Water Department). October 1952 to September 1960, water-stage recorder at site 0.1 mi downstream at different datum.

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

EXTREMES FOR PERIOD OF RECORD.—Maximum discharge, 30,400 ft³/s, Dec. 23, 1955, gage height, 23.10 ft, site and datum then in use, from rating curve extended above 4,500 ft³/s, on basis of slope-area measurement of peak flow; no flow for several days in 1955 and many days in 1960.

EXTREMES FOR CURRENT YEAR.—Peak discharges greater than base discharge of 1,800 ft³/s, or maximum:

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Dec. 24	1430	2,250	10.77	Feb. 18	0315	2,750	11.35
Dec. 29	1930	10,100	18.86	Feb. 25	1430	9,150	18.14
Jan. 1	1500	10,900	19.46				

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.2	7.4	82	3070	87	457	100	41	24	17	9.1	4.8
2	7.3	7.5	99	1060	377	409	93	40	23	16	8.8	4.6
3	7.2	16	36	549	415	350	89	39	23	16	14	5.4
4	7.3	13	21	412	343	318	88	38	22	16	10	4.5
5	7.2	12	21	327	247	301	86	38	22	15	8.2	4.1
6	7.0	10	26	278	197	267	81	37	21	15	7.1	4.1
7	6.8	14	112	239	173	238	78	37	21	15	7.0	3.7
8	6.7	13	46	208	152	200	74	37	21	16	7.1	3.8
9	6.5	100	26	192	138	195	68	37	21	16	6.6	3.5
10	6.3	66	131	201	125	184	64	36	21	16	8.7	3.6
11	6.2	25	104	174	117	138	64	36	21	14	8.8	3.8
12	6.4	17	50	156	110	137	62	35	21	13	6.3	4.0
13	6.7	14	36	128	103	194	59	35	19	12	6.5	3.8
14	6.2	14	180	128	99	175	58	34	19	12	6.4	3.8
15	6.0	18	92	143	94	166	58	33	19	11	6.2	3.8
16	6.2	17	52	122	175	159	57	32	19	11	6.4	4.1
17	6.3	15	36	114	228	152	57	32	19	11	6.1	4.3
18	6.3	14	28	107	1680	145	56	32	20	10	5.9	4.6
19	6.3	13	32	101	e560	139	58	31	20	9.4	5.7	5.6
20	6.2	13	79	97	e390	133	87	31	19	8.7	5.9	7.1
21	6.2	13	395	96	303	129	65	31	19	8.0	5.9	7.0
22	6.2	12	118	93	284	126	60	31	18	8.6	5.8	5.0
23	6.1	12	169	89	230	121	56	31	18	9.7	6.2	4.5
24	6.1	12	1050	105	292	118	52	30	18	10	6.6	4.2
25	5.7	12	492	94	2740	140	50	30	17	9.9	5.9	3.9
26	6.9	12	255	89	1380	186	47	29	16	9.3	5.5	4.1
27	5.9	12	153	97	799	127	45	29	16	8.7	5.1	3.9
28	5.4	12	106	101	582	116	44	30	16	8.9	4.8	4.5
29	5.7	12	3030	92	472	109	43	29	23	9.1	4.9	4.6
30	5.9	18	1380	89	---	105	42	26	17	9.5	5.0	4.9
31	7.0	---	500	88	---	104	---	25	---	9.7	5.1	---
TOTAL	199.4	545.9	8937	8839	12892	5838	1941	1032	593	371.5	211.6	133.6
MEAN	6.43	18.2	288	285	445	188	64.7	33.3	19.8	12.0	6.83	4.45
MAX	7.3	100	3030	3070	2740	457	100	41	24	17	14	7.1
MIN	5.4	7.4	21	88	87	104	42	25	16	8.0	4.8	3.5
AC-FT	396	1080	17730	17530	25570	11580	3850	2050	1180	737	420	265

e Estimated.

SAN LORENZO RIVER BASIN

11161000 SAN LORENZO RIVER AT SANTA CRUZ, CA—Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1953 - 2004, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	13.5	30.6	184	331	442	234	141	70.2	35.5	19.3	11.6	10.6
MAX	38.5	86.1	1366	1391	2652	999	1017	212	137	67.2	39.9	40.4
(WY)	2001	1998	1956	1997	1998	1995	1958	1998	1998	1998	1998	1959
MIN	1.83	3.45	7.30	5.60	15.3	16.8	15.9	13.7	4.64	1.48	0.27	0.17
(WY)	1989	1991	1991	1991	1991	1988	1990	1988	1988	1988	1960	1960

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1953 - 2004	
ANNUAL TOTAL	31741.4		41534.0			
ANNUAL MEAN	87.0		113		125	
HIGHEST ANNUAL MEAN					384	
LOWEST ANNUAL MEAN					21.5	
HIGHEST DAILY MEAN	3030	Dec 29	3070	Jan 1	17400	Dec 23 1955
LOWEST DAILY MEAN	5.4	Oct 28	3.5	Sep 9	0.00	Sep 3 1955
ANNUAL SEVEN-DAY MINIMUM	5.9	Oct 24	3.7	Sep 7	0.00	Sep 20 1960
MAXIMUM PEAK FLOW			10900	Jan 1	30400	Dec 23 1955
MAXIMUM PEAK STAGE			19.46	Jan 1	23.10	Dec 23 1955
ANNUAL RUNOFF (AC-FT)	62960		82380		90830	
10 PERCENT EXCEEDS	179		232		258	
50 PERCENT EXCEEDS	44		25		27	
90 PERCENT EXCEEDS	7.2		5.7		3.9	

11161300 CARBONERA CREEK AT SCOTTS VALLEY, CA

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

DRAINAGE AREA.—3.60 mi².

PERIOD OF RECORD.—February 1985 to current year.

GAGE.—Water-stage recorder and crest-stage gage. Elevation of gage is 550 ft above NGVD of 1929, from topographic map.

REMARKS.—Records fair except for flows below 1 ft³/s, which are poor. No regulation or diversion upstream from station. Low flows affected by return flow from urban irrigation and by periodic flushing of upstream county well.

EXTREMES FOR PERIOD OF RECORD.—Maximum discharge, 1,620 ft³/s, Dec. 10, 1996, gage height, 11.89 ft, from rating curve extended above slope-area measurement made at gage height 9.48 ft; no flow for many days in several years.

EXTREMES FOR CURRENT YEAR.—Peak discharges greater than base discharge of 500 ft³/s, or maximum:

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Dec. 29	1715	1,090	10.19	Feb. 25	1100	556	7.42
Jan. 1	1200	1,030	9.90				

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.05	0.09	12	248	1.0	19	0.80	0.34	0.20	0.13	0.08	0.01
2	0.06	0.07	2.7	35	44	8.6	0.84	0.31	0.16	0.12	0.04	0.00
3	0.17	4.4	0.67	11	15	6.6	0.84	0.31	0.13	0.09	0.05	0.00
4	0.13	0.11	0.48	6.6	7.0	5.4	0.75	0.32	0.12	0.11	0.06	0.00
5	0.04	0.10	2.0	4.2	4.7	4.4	0.74	0.29	0.10	0.10	0.00	0.00
6	0.03	0.10	8.6	3.4	3.6	3.9	0.72	0.33	0.11	0.09	0.00	0.00
7	0.00	3.2	3.1	2.6	3.0	3.4	0.75	0.36	0.10	0.16	0.00	0.00
8	0.01	7.2	0.80	2.2	2.5	3.2	0.75	0.30	0.11	0.25	0.00	0.00
9	0.00	5.1	1.3	5.0	2.2	2.9	0.74	0.30	0.14	0.24	0.00	0.00
10	0.00	0.78	8.9	2.3	1.9	2.7	0.72	0.29	0.16	0.12	0.00	0.00
11	0.00	0.25	3.8	1.8	1.7	2.6	0.63	0.30	0.12	0.08	0.02	0.00
12	0.00	0.20	1.1	1.4	1.8	2.4	0.63	0.34	0.10	0.04	0.09	0.00
13	0.00	0.19	1.3	1.2	1.8	2.3	0.61	0.29	0.09	0.22	0.14	0.00
14	0.00	1.8	12	1.3	1.7	2.1	0.65	0.31	0.10	0.03	0.03	0.00
15	0.00	1.4	1.6	1.1	1.5	2.0	0.68	0.28	0.11	0.01	0.00	0.00
16	0.00	0.24	e0.80	0.95	11	2.0	0.72	0.30	0.14	0.01	0.00	0.00
17	0.00	0.23	e0.60	0.84	34	2.0	0.76	0.29	0.20	0.01	0.00	0.00
18	0.00	0.20	e1.2	0.75	60	1.8	0.48	0.27	0.20	0.00	0.00	0.00
19	0.00	0.18	e5.2	0.70	13	1.8	0.52	0.31	0.13	0.36	0.00	1.2
20	0.00	0.17	e7.3	0.68	7.5	1.8	3.7	0.31	0.12	0.02	0.05	0.08
21	0.00	0.17	e9.0	0.63	5.3	1.8	0.47	0.33	0.11	0.00	0.05	0.02
22	0.00	0.26	e6.3	0.60	7.6	1.8	0.43	0.32	0.08	0.01	0.02	0.00
23	0.00	0.29	15	0.59	3.9	1.7	0.41	0.31	0.11	0.13	0.02	0.00
24	0.00	0.36	65	3.1	14	1.7	0.40	0.36	0.08	0.17	0.05	0.00
25	0.00	0.37	15	0.70	151	10	0.39	0.35	0.06	0.13	0.04	0.01
26	0.00	0.37	7.0	0.79	58	1.8	0.36	0.36	0.03	0.10	0.01	0.06
27	0.00	0.39	4.4	3.6	26	1.4	0.32	0.32	0.03	0.13	0.00	0.06
28	0.00	0.42	3.1	1.0	15	1.2	0.36	0.52	0.08	0.18	0.00	0.04
29	0.00	0.41	331	0.81	10	1.0	0.34	0.20	0.13	0.23	0.01	0.03
30	0.00	6.4	47	0.90	---	0.91	0.38	0.19	0.17	0.23	0.05	0.10
31	1.1	---	13	0.71	---	0.84	---	0.20	---	0.17	0.03	---
TOTAL	1.59	35.45	591.25	344.45	509.7	105.05	20.89	9.61	3.52	3.67	0.84	1.61
MEAN	0.05	1.18	19.1	11.1	17.6	3.39	0.70	0.31	0.12	0.12	0.03	0.05
MAX	1.1	7.2	331	248	151	19	3.7	0.52	0.20	0.36	0.14	1.2
MIN	0.00	0.07	0.48	0.59	1.0	0.84	0.32	0.19	0.03	0.00	0.00	0.00
AC-FT	3.2	70	1170	683	1010	208	41	19	7.0	7.3	1.7	3.2

e Estimated.

SAN LORENZO RIVER BASIN

11161300 CARBONERA CREEK AT SCOTTS VALLEY, CA—Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1985 - 2004, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	0.67	2.58	8.99	14.3	19.2	9.76	2.36	1.40	0.41	0.20	0.21	0.21
MAX	3.01	6.24	38.3	41.0	68.1	32.0	7.42	5.63	1.95	0.59	0.91	0.68
(WY)	1990	1997	1997	1995	1998	1986	1998	1998	1998	1998	1989	1989
MIN	0.04	0.00	0.51	0.35	0.95	0.25	0.41	0.10	0.00	0.01	0.00	0.00
(WY)	1987	1987	1987	1991	1988	1988	1987	1987	1987	1990	1985	1992

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1985 - 2004	
ANNUAL TOTAL	1222.74		1627.63			
ANNUAL MEAN	3.35		4.45		4.98	
HIGHEST ANNUAL MEAN					10.5 1998	
LOWEST ANNUAL MEAN					1.33 1990	
HIGHEST DAILY MEAN	331	Dec 29	331	Dec 29	464	Jan 24 2000
LOWEST DAILY MEAN	0.00	Aug 16	0.00	Oct 7	0.00	Jun 28 1985
ANNUAL SEVEN-DAY MINIMUM	0.00	Oct 9	0.00	Oct 9	0.00	Jun 28 1985
MAXIMUM PEAK FLOW			1090	Dec 29	1620	Dec 10 1996
MAXIMUM PEAK STAGE			10.19	Dec 29	11.89	Dec 10 1996
ANNUAL RUNOFF (AC-FT)	2430		3230		3600	
10 PERCENT EXCEEDS	6.4		6.6		8.8	
50 PERCENT EXCEEDS	0.80		0.31		0.46	
90 PERCENT EXCEEDS	0.02		0.00		0.00	

11162500 PESCADERO CREEK NEAR PESCADERO, CA

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

DRAINAGE AREA.—45.9 mi².

PERIOD OF RECORD.—April 1951 to current year.

CHEMICAL DATA: Water year 1977.

WATER TEMPERATURE: Water years 1965–80.

SEDIMENT DATA: Water years 1971, 1973, 1980, 1986, 1990–93.

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

GAGE.—Water-stage recorder and crest-stage gage. Datum of gage is 62.30 ft above NGVD of 1929.

REMARKS.—Records fair. Small diversions upstream from station by pumping.

EXTREMES FOR PERIOD OF RECORD.—Maximum discharge, 10,600 ft³/s, Feb. 3, 1998, gage height, 22.47 ft, from rating curve extended above 2,700 ft³/s, on basis of slope-area measurement of peak flow; no flow at times.

EXTREMES FOR CURRENT YEAR.—Peak discharges greater than base discharge of 700 ft³/s, or maximum:

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Dec. 29	1945	2,770	10.47	Feb. 18	0715	932	6.16
Jan. 1	1500	3,810	12.39	Feb. 25	1415	2,580	10.10

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.5	2.4	9.4	1080	19	e153	21	9.9	6.3	3.8	2.4	1.6
2	2.5	2.6	16	382	74	e130	20	9.7	6.0	3.8	2.6	1.6
3	2.5	3.1	8.8	187	223	e113	20	9.5	5.8	4.0	2.7	1.6
4	2.7	3.3	5.8	122	206	99	19	9.3	5.6	3.8	2.8	1.7
5	2.8	3.4	5.4	93	126	87	18	9.0	5.4	3.5	2.6	1.7
6	2.6	3.3	7.0	72	90	75	18	9.0	5.4	3.3	2.4	1.6
7	2.5	4.7	15	58	69	66	17	8.7	5.4	3.2	2.4	1.5
8	2.5	6.6	12	48	56	60	17	8.5	5.2	3.0	2.4	1.4
9	2.5	17	8.8	44	48	55	16	8.2	5.3	3.0	2.3	1.3
10	2.5	13	24	41	41	50	16	8.2	5.7	3.0	2.2	1.3
11	2.6	5.7	25	36	36	46	15	8.3	5.5	2.9	2.1	1.4
12	2.4	3.7	15	33	33	43	15	8.3	5.3	2.9	2.0	1.4
13	2.3	3.1	10	29	30	41	15	8.2	5.0	2.8	1.9	1.5
14	2.3	3.3	42	27	28	38	15	7.8	4.9	2.8	1.8	1.6
15	2.3	4.6	27	26	26	36	14	7.8	4.9	2.8	1.9	1.6
16	2.2	5.2	15	25	31	33	14	7.8	4.6	2.8	2.0	1.7
17	2.2	4.2	11	23	88	31	14	7.7	4.4	2.8	1.9	1.6
18	2.3	3.6	8.4	22	645	30	14	7.5	4.4	2.7	1.9	1.5
19	2.3	3.4	8.0	21	209	29	14	7.3	4.4	2.6	1.9	1.5
20	2.2	3.2	11	21	128	28	15	7.3	4.3	2.6	1.9	1.6
21	2.2	3.1	16	20	96	27	15	7.4	4.4	2.6	1.9	1.8
22	2.4	3.1	17	19	77	27	14	7.5	4.6	2.6	1.9	1.7
23	2.3	3.0	15	18	60	26	13	7.5	4.7	2.5	2.0	1.6
24	2.2	3.0	94	23	55	25	13	7.3	4.4	2.5	2.1	1.5
25	2.2	3.2	92	21	793	27	12	7.2	4.1	2.5	2.1	1.5
26	2.1	3.2	58	19	576	33	11	7.1	4.0	2.4	2.1	1.5
27	1.9	3.2	32	19	342	25	11	6.9	4.0	2.3	1.9	1.5
28	1.9	3.2	23	22	232	24	10	7.0	3.9	2.3	1.7	1.5
29	1.9	3.2	757	21	181	23	10	7.0	3.7	2.3	1.6	1.5
30	2.0	4.1	518	21	---	22	10	6.6	3.7	2.3	1.6	1.7
31	2.4	---	141	20	---	22	---	6.3	---	2.4	1.6	---
TOTAL	72.2	131.7	2047.6	2613	4618	1524	446	245.8	145.3	88.8	64.6	46.5
MEAN	2.33	4.39	66.1	84.3	159	49.2	14.9	7.93	4.84	2.86	2.08	1.55
MAX	2.8	17	757	1080	793	153	21	9.9	6.3	4.0	2.8	1.8
MIN	1.9	2.4	5.4	18	19	22	10	6.3	3.7	2.3	1.6	1.3
AC-FT	143	261	4060	5180	9160	3020	885	488	288	176	128	92

e Estimated.

PESCADERO CREEK BASIN

11162500 PESCADERO CREEK NEAR PESCADERO, CA—Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1951 - 2004, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	5.34	12.7	58.4	118	136	92.3	53.6	19.1	9.03	5.17	3.52	2.75
MAX	92.8	85.9	469	435	865	540	398	93.8	32.5	17.5	11.6	8.64
(WY)	1963	1984	1956	1997	1998	1983	1958	1983	1998	1998	1998	1998
MIN	0.38	1.61	2.30	2.75	2.92	4.25	1.93	2.00	0.78	0.20	0.01	0.08
(WY)	1962	1992	1977	1991	1977	1988	1977	1977	1977	1977	1977	1977

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1951 - 2004	
ANNUAL TOTAL	9149.5		12043.5			
ANNUAL MEAN	25.1		32.9		42.5	
HIGHEST ANNUAL MEAN					164 1983	
LOWEST ANNUAL MEAN					1.72 1977	
HIGHEST DAILY MEAN	757	Dec 29	1080	Jan 1	5560	Dec 23 1955
LOWEST DAILY MEAN	1.9	Oct 27	1.3	Sep 9	0.00	Sep 9 1961
ANNUAL SEVEN-DAY MINIMUM	2.0	Oct 24	1.4	Sep 7	0.00	Aug 17 1977
MAXIMUM PEAK FLOW			3810	Jan 1	10600	Feb 3 1998
MAXIMUM PEAK STAGE			12.39	Jan 1	22.47	Feb 3 1998
ANNUAL RUNOFF (AC-FT)	18150		23890		30810	
10 PERCENT EXCEEDS	57		60		89	
50 PERCENT EXCEEDS	11		6.4		7.2	
90 PERCENT EXCEEDS	2.5		1.9		1.5	

11162570 SAN GREGORIO CREEK AT SAN GREGORIO, CA

LOCATION.—Lat 37°19'33", long 122°23'08", in San Gregorio Grant, [San Mateo County](#), Hydrologic Unit 18050006, on right bank at downstream side of bridge on Old Coast Highway, 0.1 mi south of town of San Gregorio, and 1.4 mi upstream from mouth.

DRAINAGE AREA.—50.9 mi².

PERIOD OF RECORD.—October 1969 to September 1994, May 2001 to current year.

SEDIMENT DATA: Water years 1986, 1990–1993.

GAGE.—Water-stage recorder and crest-stage gage. Datum of gage is 11.40 ft above NGVD of 1929.

REMARKS.—Records fair. No regulation or known diversion upstream from station. Low flow affected by domestic irrigation.

EXTREMES FOR PERIOD OF RECORD.—Maximum discharge, 7,910 ft³/s, Jan. 4, 1982, gage height, 21.28 ft, from rating curve extended above 560 ft³/s, on basis of contracted-opening measurement of peak flow; no flow for many days in some years.

EXTREMES OUTSIDE PERIOD OF RECORD.—Flood of Dec. 22, 1955, reached a stage of 15.6 ft, from floodmarks, discharge, 3,620 ft³/s, based on contracted-opening measurement of peak flow.

EXTREMES FOR CURRENT YEAR.—Peak discharges greater than base discharge of 1,000 ft³/s, or maximum:

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Dec. 29	2030	1,260	8.77	Feb. 18	0015	1,150	8.42
Jan. 1	1430	2,670	12.21	Feb. 25	1245	2,440	11.71

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.5	4.1	6.3	825	23	128	17	6.9	4.3	1.6	2.5	0.09
2	1.5	3.9	13	235	190	109	16	7.4	3.7	2.1	2.7	0.28
3	1.6	4.1	8.0	116	307	86	15	7.2	3.9	1.7	3.5	0.52
4	1.9	4.3	5.4	77	198	76	15	7.1	3.9	1.8	3.3	0.20
5	1.8	4.0	6.0	59	107	67	15	6.6	3.7	1.7	2.4	0.01
6	1.7	4.2	9.2	49	74	59	14	6.3	3.8	1.2	1.9	0.00
7	1.6	7.1	22	42	60	53	14	6.2	3.3	1.3	1.8	0.01
8	1.5	7.3	11	37	49	48	14	6.7	3.2	2.0	2.1	0.23
9	1.3	17	7.7	36	42	44	13	6.6	2.8	1.5	2.4	0.27
10	0.89	8.7	19	39	36	40	13	6.1	3.0	1.1	1.3	0.07
11	0.59	4.5	30	33	32	36	13	5.1	3.0	1.5	0.75	0.14
12	0.83	3.0	13	30	30	34	13	4.9	3.0	1.0	0.65	0.38
13	1.3	2.5	12	28	27	32	13	4.7	3.7	1.2	0.84	0.39
14	1.2	2.5	49	27	26	30	12	5.0	3.6	1.9	1.4	0.40
15	1.1	4.4	21	26	24	28	12	5.3	3.0	1.4	1.7	0.52
16	1.0	5.1	11	25	30	26	11	5.9	1.8	1.3	2.4	0.39
17	0.92	4.4	7.7	24	177	25	11	5.4	1.7	1.4	2.1	0.32
18	1.2	4.3	6.3	23	620	24	11	5.4	1.9	1.2	1.9	0.48
19	1.3	3.5	6.3	22	157	23	12	5.2	2.3	0.66	1.6	0.88
20	1.3	3.1	10	22	120	22	13	5.1	2.8	0.68	1.5	0.94
21	1.4	2.9	8.3	21	84	21	13	5.8	2.0	0.55	1.4	0.82
22	1.3	2.6	6.9	20	74	21	12	6.0	2.6	0.36	1.4	0.45
23	0.80	2.8	7.7	20	58	21	10	6.0	2.6	1.1	1.2	0.53
24	0.34	2.7	40	32	58	20	9.7	5.2	2.2	1.2	2.3	0.38
25	0.31	2.7	59	26	795	26	9.4	4.7	1.8	1.5	2.5	0.37
26	0.34	2.7	40	23	462	33	9.1	3.9	1.5	1.3	2.0	0.20
27	0.86	2.7	20	23	292	22	8.4	4.2	1.9	1.2	1.6	0.01
28	0.88	2.6	14	27	187	20	8.0	5.1	1.8	1.7	0.64	0.41
29	1.0	2.6	460	24	141	19	7.9	5.6	1.7	1.4	0.90	0.97
30	1.3	3.3	336	25	---	18	7.3	5.1	1.1	1.4	0.98	1.5
31	1.9	---	91	25	---	17	---	4.7	---	1.1	0.53	---
TOTAL	36.46	129.6	1356.8	2041	4480	1228	361.8	175.4	81.6	41.05	54.19	12.16
MEAN	1.18	4.32	43.8	65.8	154	39.6	12.1	5.66	2.72	1.32	1.75	0.41
MAX	1.9	17	460	825	795	128	17	7.4	4.3	2.1	3.5	1.5
MIN	0.31	2.5	5.4	20	23	17	7.3	3.9	1.1	0.36	0.53	0.00
AC-FT	72	257	2690	4050	8890	2440	718	348	162	81	107	24

SAN GREGORIO CREEK BASIN

11162570 SAN GREGORIO CREEK AT SAN GREGORIO, CA—Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1970 - 2004, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	2.90	23.4	56.3	90.0	103	83.3	38.9	12.6	5.78	2.89	1.57	1.20
MAX	11.6	162	297	345	379	432	259	68.5	20.5	11.7	6.68	4.46
(WY)	1984	1973	1984	1982	1986	1983	1982	1983	1982	1974	1982	1983
MIN	0.00	0.71	1.70	1.17	2.21	2.98	1.05	1.42	0.35	0.02	0.00	0.00
(WY)	1978	1977	1977	1991	1977	1977	1977	1977	1981	1988	1977	1977

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1970 - 2004	
ANNUAL TOTAL	7271.16		9998.06			
ANNUAL MEAN	19.9		27.3		34.8	
HIGHEST ANNUAL MEAN					111 1983	
LOWEST ANNUAL MEAN					1.16 1977	
HIGHEST DAILY MEAN	460	Dec 29	825	Jan 1	4120	Jan 4 1982
LOWEST DAILY MEAN	0.31	Oct 25	0.00	Sep 6	0.00	Aug 11 1972
ANNUAL SEVEN-DAY MINIMUM	0.65	Oct 23	0.10	Sep 5	0.00	Aug 11 1972
MAXIMUM PEAK FLOW			2670	Jan 1	7910	Jan 4 1982
MAXIMUM PEAK STAGE			12.21	Jan 1	21.28	Jan 4 1982
INSTANTANEOUS LOW FLOW					0.00	Sep 16 1992
ANNUAL RUNOFF (AC-FT)	14420		19830		25240	
10 PERCENT EXCEEDS	44		49		67	
50 PERCENT EXCEEDS	9.9		4.8		4.8	
90 PERCENT EXCEEDS	1.6		0.73		0.25	

11162618 PILARCITOS LAKE NEAR HILLSBOROUGH, CA

LOCATION.—Lat 37°32'57", long 122°25'21", in SE 1/4 SE 1/4 sec.28, T.4 S., R.5 W., San Mateo County, Hydrologic Unit 18050006, on dam, west side of spillway, and 2.0 mi southwest of Hillsborough.

DRAINAGE AREA.—3.91 mi².

PERIOD OF RECORD.—October 1999 to current year.

GAGE.—Water-stage recorder. Datum of gage is NGVD of 1929.

REMARKS.—Reservoir is formed by earthfill dam; storage began 1866. Capacity is 3,100 acre-ft, spillway at crest is 700.0 ft. Stores water from Hetch-Hetchy Aqueduct for municipal use.

ELEVATION OF RESERVOIR WATER SURFACE ABOVE DATUM, FEET, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	687.04	687.00	686.70	686.68	686.87	686.78	687.32	686.86	689.84	689.76	692.50	692.25
2	687.03	687.00	686.72	686.67	686.88	686.86	687.30	686.66	690.16	689.84	692.68	692.50
3	687.01	686.96	686.73	686.70	686.87	686.84	686.66	686.23	690.50	690.16	692.83	692.68
4	686.98	686.94	686.71	686.70	686.84	686.83	686.87	686.49	690.79	690.50	692.99	692.83
5	686.94	686.91	686.70	686.69	686.90	686.84	687.15	686.87	691.01	690.79	693.09	692.96
6	686.91	686.87	686.74	686.70	687.05	686.88	687.41	687.15	691.20	691.01	693.20	693.09
7	686.89	686.86	686.74	686.72	687.06	687.02	687.60	687.41	691.34	691.20	693.30	693.20
8	686.87	686.82	686.90	686.69	687.03	686.97	687.77	687.60	691.46	691.34	693.38	693.30
9	686.86	686.78	686.91	686.86	687.05	686.94	687.99	687.75	691.55	691.46	693.45	693.38
10	686.82	686.79	686.86	686.82	687.08	687.01	688.17	687.99	691.63	691.55	693.51	693.45
11	686.81	686.79	686.83	686.79	687.12	687.04	688.33	688.16	691.70	691.63	693.56	693.51
12	686.81	686.79	686.80	686.76	687.04	687.01	688.47	688.33	691.76	691.70	693.62	693.56
13	686.80	686.79	686.79	686.76	687.03	686.98	688.62	688.47	691.82	691.76	693.66	693.61
14	686.79	686.77	686.78	686.74	687.14	686.96	688.74	688.62	691.87	691.82	693.70	693.66
15	686.79	686.77	686.80	686.76	687.14	687.11	688.86	688.74	691.91	691.87	693.73	693.70
16	686.79	686.77	686.79	686.77	687.11	687.06	688.98	688.86	692.08	691.91	693.76	693.73
17	686.79	686.78	686.80	686.78	687.06	687.01	689.09	688.98	692.37	692.07	693.79	693.76
18	686.79	686.76	686.79	686.75	687.01	686.96	689.19	689.09	693.63	692.37	693.82	693.79
19	686.79	686.77	686.78	686.75	687.00	686.93	689.26	689.18	694.12	693.63	693.84	693.82
20	686.79	686.78	686.78	686.74	687.03	686.99	689.29	689.24	694.40	694.12	693.86	693.84
21	686.79	686.77	686.77	686.68	687.04	687.03	689.32	689.28	694.61	694.40	693.88	693.86
22	686.79	686.76	686.74	686.71	687.04	687.02	689.34	689.31	694.78	694.61	693.91	693.87
23	686.79	686.78	686.73	686.70	687.06	686.99	689.36	689.33	694.87	694.61	693.92	693.88
24	686.79	686.78	686.72	686.70	687.41	687.01	689.41	689.36	694.61	693.86	693.93	693.91
25	686.78	686.77	686.71	686.65	687.57	687.41	689.42	689.40	693.86	693.61	694.04	693.92
26	686.78	686.77	686.69	686.66	687.59	687.53	689.46	689.42	693.72	693.48	694.06	694.03
27	686.77	686.76	686.68	686.67	687.54	687.45	689.56	689.44	693.48	693.00	694.09	694.05
28	686.77	686.76	686.68	686.67	687.45	687.36	689.60	689.56	693.00	692.39	694.11	694.09
29	686.78	686.69	686.67	686.67	689.01	687.34	689.65	689.60	692.39	692.12	694.12	694.10
30	686.76	686.69	686.79	686.67	689.09	688.48	689.73	689.64	---	---	694.16	694.10
31	686.70	686.69	---	---	688.48	687.21	689.76	689.70	---	---	694.16	694.10
MONTH	687.04	686.69	686.91	686.65	689.09	686.78	689.76	686.23	694.87	689.76	694.16	692.25

11162618 PILARCITOS LAKE NEAR HILLSBOROUGH, CA—Continued

ELEVATION OF RESERVOIR WATER SURFACE ABOVE DATUM, FEET, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAY	MAX		MIN		MAX		MIN		MAX		MIN		MAX		MIN	
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER					
1	694.14	694.11	692.15	692.01	686.99	686.90	686.58	686.54	686.94	686.90	687.38	687.36				
2	694.14	694.11	692.01	691.79	686.96	686.84	686.58	686.54	686.95	686.93	687.39	687.36				
3	694.12	694.11	691.79	691.43	686.89	686.81	686.59	686.54	686.99	686.94	687.39	687.37				
4	694.13	694.11	691.43	691.05	686.86	686.75	686.58	686.56	687.01	686.96	687.40	687.39				
5	694.13	694.10	691.05	690.72	686.83	686.74	686.59	686.56	687.01	686.97	687.41	687.39				
6	694.13	694.08	690.72	690.39	686.81	686.70	686.58	686.56	687.02	686.98	687.42	687.40				
7	694.11	694.08	690.39	690.07	686.80	686.69	686.61	686.55	687.04	687.01	687.42	687.41				
8	694.10	694.08	690.07	689.76	686.76	686.68	686.61	686.57	687.06	687.03	687.43	687.42				
9	694.08	694.07	689.77	689.45	686.75	686.68	686.59	686.55	687.08	687.04	687.44	687.42				
10	694.08	694.07	689.49	689.16	686.75	686.66	686.59	686.53	687.08	687.06	687.45	687.43				
11	694.08	694.07	689.18	688.91	686.74	686.64	686.57	686.54	687.10	687.08	687.47	687.42				
12	694.09	694.03	688.91	688.62	686.71	686.63	686.60	686.55	687.13	687.09	687.47	687.42				
13	694.04	693.96	688.66	688.42	686.71	686.58	686.59	686.56	687.13	687.11	687.48	687.42				
14	693.96	693.88	688.42	688.18	686.63	686.59	686.61	686.57	687.15	687.12	687.47	687.46				
15	693.89	693.81	688.19	687.94	686.62	686.61	686.64	686.58	687.17	687.12	687.48	687.46				
16	693.81	693.73	687.99	687.72	686.66	686.59	686.65	686.62	687.17	687.12	687.49	687.46				
17	693.73	693.65	687.78	687.62	686.64	686.57	686.67	686.63	687.18	687.14	687.50	687.46				
18	693.65	693.58	687.62	687.50	686.62	686.60	686.69	686.64	687.19	687.17	687.51	687.47				
19	693.58	693.51	687.52	687.38	686.61	686.57	686.71	686.65	687.21	687.18	687.52	687.48				
20	693.56	693.51	687.45	687.32	686.64	686.55	686.72	686.66	687.22	687.19	687.53	687.50				
21	693.51	693.44	687.34	687.23	686.62	686.54	686.73	686.70	687.24	687.21	687.53	687.52				
22	693.46	693.37	687.29	687.19	686.62	686.54	686.75	686.72	687.25	687.23	687.54	687.52				
23	693.37	693.28	687.22	687.06	686.67	686.57	686.77	686.74	687.28	687.23	687.55	687.53				
24	693.28	693.21	687.13	687.07	686.66	686.51	686.79	686.76	687.28	687.26	687.56	687.54				
25	693.21	693.13	687.08	687.03	686.59	686.52	686.81	686.78	687.30	687.28	687.57	687.55				
26	693.13	692.98	687.13	687.06	686.59	686.51	686.83	686.80	687.31	687.28	687.59	687.57				
27	692.98	692.67	687.15	687.10	686.58	686.52	686.84	686.82	687.32	687.31	687.59	687.57				
28	692.67	692.44	687.16	687.02	686.60	686.55	686.86	686.83	687.33	687.32	687.61	687.59				
29	692.45	692.27	687.11	687.00	686.61	686.54	686.88	686.86	687.34	687.33	687.62	687.60				
30	692.27	692.15	687.06	687.00	686.60	686.56	686.90	686.87	687.35	687.34	687.63	687.61				
31	---	---	687.02	686.96	---	---	686.91	686.89	687.37	687.35	---	---				
MONTH	694.14	692.15	692.15	686.96	686.99	686.51	686.91	686.53	687.37	686.90	687.63	687.36				

11162620 PILARCITOS CREEK BELOW STONE DAM, NEAR HILLSBOROUGH, CA

LOCATION.—Lat 37°31'29", long 122°23'54", NE 1/4 SW 1/4 sec.3, T.5 S., R.5 W., San Mateo County, Hydrologic Unit 18050006, on left bank, 50 ft downstream of unnamed tributary, 0.2 mi downstream of Stone Dam, and 2.4 mi southwest of Hillsborough.

DRAINAGE AREA.—6.54 mi².

PERIOD OF RECORD.—October 1997 to current year.

GAGE.—Water-stage recorder and crest-stage gage. Elevation of gage is 500 ft above NGVD of 1929, from topographic map.

REMARKS.—Records fair except for estimated daily discharges, which are poor. Flow regulated by storage in Pilarcitos Lake, 2.6 mi upstream, capacity, 3,100 acre-ft. Water is diverted by city of San Francisco water system at Pilarcitos Lake and Stone Dam.

EXTREMES FOR PERIOD OF RECORD.—Maximum discharge, 279 ft³/s, Feb. 7, 1999, gage height, 7.46 ft, from rating curve extended above 90 ft³/s; no flow Oct. 13, 14, 2001.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	e0.16	0.33	e0.60	17	0.34	1.2	0.41	0.19	0.17	0.14	0.14	0.11
2	e0.16	0.38	0.72	6.4	0.67	1.0	0.41	0.22	0.14	0.13	0.15	0.10
3	e0.16	0.47	0.55	2.3	0.70	0.90	0.39	0.46	0.14	0.12	0.15	0.10
4	e0.16	0.28	0.45	1.6	0.67	0.81	0.37	0.50	0.14	0.13	0.14	0.10
5	e0.16	0.26	0.59	1.3	0.63	0.78	0.37	0.47	0.14	0.14	0.15	0.09
6	e0.16	0.27	0.55	1.2	0.59	0.75	0.37	0.47	0.13	0.13	0.15	0.09
7	e0.19	0.27	0.56	1.1	0.54	0.69	0.38	0.39	0.13	0.12	0.16	0.09
8	e0.19	0.39	0.35	0.96	0.52	0.64	0.37	0.30	0.14	0.12	0.16	0.09
9	e0.16	0.35	0.35	e0.86	0.49	0.62	0.38	0.25	0.14	0.12	0.16	0.09
10	e0.14	0.25	0.61	e0.76	0.49	0.58	0.38	0.25	0.15	0.12	0.16	0.09
11	0.15	0.23	0.56	e0.68	0.45	0.56	0.36	0.21	0.14	0.12	0.16	0.09
12	0.16	0.21	0.44	e0.60	0.44	0.54	0.36	0.23	0.14	0.12	0.15	0.09
13	0.14	0.21	0.51	e0.52	0.41	0.53	0.34	0.25	0.15	0.12	0.14	0.09
14	0.10	0.22	1.1	e0.46	0.41	0.51	0.36	0.26	0.14	0.12	0.15	0.08
15	0.10	0.26	0.53	e0.42	0.41	0.49	0.37	0.24	0.14	0.12	0.15	0.08
16	0.12	0.22	0.38	e0.37	0.48	0.49	0.32	0.23	0.13	0.12	0.14	0.08
17	0.14	0.25	0.28	e0.34	0.57	0.49	0.29	0.23	0.13	0.12	0.14	0.08
18	0.16	0.20	0.24	e0.33	2.7	0.49	0.29	0.22	0.12	0.12	0.14	0.08
19	0.16	0.18	0.26	e0.34	1.4	0.49	0.30	0.21	0.12	0.12	0.13	0.09
20	0.18	0.19	0.31	e0.32	1.1	0.44	0.38	0.20	0.12	0.12	0.12	0.09
21	0.19	0.18	0.33	e0.33	0.96	0.41	0.35	0.21	0.12	0.13	0.12	0.08
22	0.17	0.15	0.29	e0.34	0.82	0.41	0.33	0.20	0.13	0.14	0.12	0.08
23	0.18	0.15	0.29	e0.33	0.73	0.41	0.29	0.20	0.14	0.14	0.12	0.08
24	0.21	0.16	1.9	0.35	0.66	0.40	0.28	0.20	0.13	0.14	0.12	0.07
25	0.23	e0.14	2.9	0.31	1.5	0.45	0.31	0.17	0.12	0.14	0.12	0.09
26	0.18	e0.16	1.9	0.30	1.7	0.42	0.31	0.14	0.13	0.13	0.11	0.09
27	0.14	e0.15	0.58	0.35	1.5	0.41	0.32	0.13	0.15	0.13	0.10	0.09
28	0.18	e0.15	0.48	0.31	1.3	0.38	0.25	0.21	0.16	0.13	0.10	0.09
29	0.18	e0.36	21	0.29	1.2	0.37	0.20	0.19	0.15	0.13	0.11	0.09
30	0.21	e1.2	15	0.30	---	0.38	0.20	0.18	0.14	0.13	0.11	0.09
31	0.33	---	5.0	0.28	---	0.39	---	0.18	---	0.14	0.11	---
TOTAL	5.25	8.22	59.61	41.35	24.38	17.43	10.04	7.79	4.12	3.95	4.18	2.65
MEAN	0.17	0.27	1.92	1.33	0.84	0.56	0.33	0.25	0.14	0.13	0.13	0.09
MAX	0.33	1.2	21	17	2.7	1.2	0.41	0.50	0.17	0.14	0.16	0.11
MIN	0.10	0.14	0.24	0.28	0.34	0.37	0.20	0.13	0.12	0.12	0.10	0.07
AC-FT	10	16	118	82	48	35	20	15	8.2	7.8	8.3	5.3

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1998 - 2004, BY WATER YEAR (WY)

MEAN	0.15	0.27	1.59	6.77	15.3	2.31	0.68	0.41	0.26	0.24	0.19	0.15
MAX	0.32	0.72	6.46	28.2	60.4	6.99	1.45	0.73	0.46	0.38	0.29	0.22
(WY)	1999	1999	2003	1998	1998	2000	1999	2003	1998	1998	2003	1998
MIN	0.03	0.10	0.07	0.44	0.35	0.46	0.22	0.12	0.06	0.06	0.05	0.06
(WY)	2002	2000	2000	2001	2003	2003	2001	2001	2001	2001	2001	2001

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1998 - 2004	
ANNUAL TOTAL	268.26		188.97			
ANNUAL MEAN	0.73		0.52		2.28	
HIGHEST ANNUAL MEAN					7.63 1998	
LOWEST ANNUAL MEAN					0.31 2001	
HIGHEST DAILY MEAN	21	Dec 29	21	Dec 29	102	Feb 7 1998
LOWEST DAILY MEAN	0.08	Sep 22	0.07	Sep 24	0.00	Oct 13 2001
ANNUAL SEVEN-DAY MINIMUM	0.10	Sep 18	0.08	Sep 18	0.01	Oct 9 2001
MAXIMUM PEAK FLOW			62 Jan 1		279 Feb 7 1999	
MAXIMUM PEAK STAGE			6.24 Jan 1		7.46 Feb 7 1999	
ANNUAL RUNOFF (AC-FT)	532		375		1650	
10 PERCENT EXCEEDS	0.90		0.71		1.5	
50 PERCENT EXCEEDS	0.38		0.22		0.28	
90 PERCENT EXCEEDS	0.16		0.11		0.07	

e Estimated.

11162630 PILARCITOS CREEK AT HALF MOON BAY, CA

LOCATION.—Lat 37°28'00", long 122°25'59", on north boundary of Miramontes Grant, San Mateo County, Hydrologic Unit 18050006, on left bank, 50 ft downstream from State Highway 1, 0.3 mi northwest of town of Half Moon Bay, and 1.0 mi upstream from mouth.

DRAINAGE AREA.—27.1 mi².

PERIOD OF RECORD.—July 1966 to current year.

SEDIMENT DATA: Water year 1990.

GAGE.—Water-stage recorder and crest-stage gage. Datum of gage is 31.51 ft above NGVD of 1929. Prior to Nov. 17, 1983, at site 800 ft downstream at different datum.

REMARKS.—Records fair. Flow slightly regulated by storage in Pilarcitos Lake 10 mi upstream, capacity, 3,100 acre-ft. Water is diverted to city of San Francisco water system; small diversions for irrigation upstream from station by pumping.

EXTREMES FOR PERIOD OF RECORD.—Maximum discharge, 4,750 ft³/s, Jan. 4, 1982, gage height, 13.08 ft, site and datum then in use, from rating curve extended above 1,000 ft³/s, on basis of contracted-opening measurement of peak flow; no flow at times in most years.

EXTREMES FOR CURRENT YEAR.—Peak discharges greater than base discharge of 200 ft³/s, or maximum:

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Dec. 29	1745	433	7.58	Feb. 18	0530	432	7.57
Jan. 1	1315	775	9.76	Feb. 25	1215	1,240	10.85

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.98	0.94	4.2	302	11	50	7.4	3.6	e2.2	0.95	1.8	0.68
2	0.81	1.1	3.7	137	41	41	7.3	3.8	e2.0	0.79	1.5	0.57
3	1.4	1.6	3.1	66	70	34	7.0	4.0	e2.1	1.0	1.5	0.35
4	1.5	0.91	3.1	40	58	30	7.4	3.9	e2.2	1.3	1.3	0.46
5	1.4	0.94	5.1	30	41	25	6.9	3.7	e1.8	1.4	0.98	0.65
6	1.4	1.2	12	25	33	22	6.7	3.4	2.2	1.2	0.90	0.87
7	1.1	1.9	9.0	21	29	20	6.7	3.9	e2.0	0.82	1.0	0.28
8	1.1	7.4	4.1	18	26	19	6.6	3.6	e1.4	0.68	1.1	0.26
9	e0.97	5.1	5.8	20	23	18	6.7	3.8	1.7	0.53	0.93	0.08
10	e0.78	2.5	9.4	21	21	17	6.3	3.3	1.7	0.56	0.65	0.36
11	0.73	2.0	8.1	18	20	15	6.5	2.9	1.5	0.93	0.30	0.47
12	0.86	1.7	5.0	16	19	15	6.5	2.8	1.4	0.73	0.31	0.66
13	e0.80	1.6	6.5	15	18	14	6.1	2.9	1.4	0.77	0.41	0.65
14	e0.65	2.6	16	14	18	13	5.9	2.7	1.3	0.60	0.68	0.38
15	e0.49	2.9	6.4	13	17	12	5.9	2.8	0.95	0.43	1.1	0.07
16	e0.38	2.2	5.0	12	21	12	5.4	3.0	0.74	0.49	1.1	0.00
17	0.43	2.8	4.1	12	49	11	5.1	2.5	0.97	0.39	0.63	0.19
18	0.29	2.0	e3.7	11	177	11	5.2	2.3	0.95	0.42	0.86	1.1
19	0.46	1.6	5.0	10	65	10	5.3	2.4	1.0	0.63	0.95	1.8
20	0.68	1.5	6.8	10	45	9.9	5.9	2.5	1.6	0.46	0.46	1.3
21	0.65	1.5	5.1	9.9	33	10	6.3	2.7	1.9	0.68	0.48	0.64
22	0.74	1.4	4.3	9.6	29	10	5.4	3.1	1.9	0.72	0.81	0.47
23	0.86	1.5	5.1	9.8	26	10	4.5	3.0	1.8	0.70	1.2	0.36
24	0.70	1.6	22	13	26	9.5	4.4	2.9	1.5	1.0	1.4	0.48
25	0.37	1.7	26	11	324	14	4.5	2.8	0.81	1.3	1.5	0.81
26	0.36	1.7	14	10	154	11	4.1	2.8	0.76	0.90	1.2	0.39
27	0.55	1.6	9.7	11	97	10	3.7	2.6	0.98	0.67	0.71	0.99
28	0.63	1.8	8.5	10	67	8.8	3.8	3.2	0.91	0.36	0.99	0.78
29	0.53	1.7	208	10	51	8.4	3.6	3.0	0.44	0.72	1.4	0.47
30	0.80	3.5	138	12	---	8.1	3.2	2.8	0.34	0.69	1.2	0.98
31	0.66	---	56	10	---	7.5	---	2.5	---	1.2	0.56	---
TOTAL	24.06	62.49	622.8	927.3	1609	506.2	170.3	95.2	42.45	24.02	29.91	17.55
MEAN	0.78	2.08	20.1	29.9	55.5	16.3	5.68	3.07	1.42	0.77	0.96	0.58
MAX	1.5	7.4	208	302	324	50	7.4	4.0	2.2	1.4	1.8	1.8
MIN	0.29	0.91	3.1	9.6	11	7.5	3.2	2.3	0.34	0.36	0.30	0.00
AC-FT	48	124	1240	1840	3190	1000	338	189	84	48	59	35

e Estimated.

11162630 PILARCITOS CREEK AT HALF MOON BAY, CA—Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1966 - 2004, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	1.18	5.36	17.5	46.1	52.6	37.3	18.3	6.35	2.56	1.11	0.71	0.44
MAX	4.44	32.5	92.1	164	329	278	127	37.2	15.8	5.35	2.41	1.89
(WY)	1983	1983	1971	1982	1998	1983	1982	1983	1998	1998	1999	1999
MIN	0.00	0.00	0.59	0.48	0.66	1.44	0.07	0.01	0.00	0.00	0.00	0.00
(WY)	1967	1991	1991	1991	1977	1988	1977	1977	1972	1966	1966	1966

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1966 - 2004	
ANNUAL TOTAL	3631.41		4131.28			
ANNUAL MEAN	9.95		11.3		15.6	
HIGHEST ANNUAL MEAN					73.9 1983	
LOWEST ANNUAL MEAN					0.51 1977	
HIGHEST DAILY MEAN	208	Dec 29	324	Feb 25	2150	Jan 4 1982
LOWEST DAILY MEAN	0.29	Oct 18	0.00	Sep 16	0.00	Jul 1 1966
ANNUAL SEVEN-DAY MINIMUM	0.48	Oct 14	0.35	Sep 11	0.00	Jul 1 1966
MAXIMUM PEAK FLOW			1240	Feb 25	4750	Jan 4 1982
MAXIMUM PEAK STAGE			10.85	Feb 25	13.08	Jan 4 1982
ANNUAL RUNOFF (AC-FT)	7200		8190		11320	
10 PERCENT EXCEEDS	23		22		31	
50 PERCENT EXCEEDS	5.5		2.6		2.2	
90 PERCENT EXCEEDS	0.80		0.52		0.00	

11162750 CRYSTAL SPRINGS RESERVOIR AT DAM, NEAR SAN MATEO, CA

LOCATION.—Lat 37°31'47", long 122°21'43", in Pulgas Grant, [San Mateo County](#), Hydrologic Unit 18050004, at north end of Crystal Springs Reservoir Dam, 0.6 mi upstream of Polhemus Creek, and 0.2 mi west of Hillsborough City boundary.

DRAINAGE AREA.—Indeterminate.

PERIOD OF RECORD.—October 1998 to current year.

GAGE.—Water-stage recorder. Datum of gage is NGVD of 1929.

REMARKS.—Lake is formed by gravity type, interlocking concrete blocks. Storage began in 1888. Dam was raised in 1890 and 1911. Capacity is 58,500 acre-ft, spillway at crest is 283.9 ft, capacity can be increased by addition of 4 ft flash boards up to 8 ft. Stores water from Hetch-Hetchy Aqueduct for municipal use.

ELEVATION OF RESERVOIR WATER SURFACE ABOVE DATUM, FEET, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	275.63	275.60	274.80	274.76	273.20	273.02	271.99	270.62	271.58	271.34	281.27	280.94
2	275.63	275.58	274.86	274.77	273.02	272.82	272.44	271.99	272.05	271.58	281.53	281.26
3	275.63	275.59	274.90	274.85	272.82	272.63	272.63	272.43	272.53	272.05	281.78	281.53
4	275.62	275.59	274.97	274.88	272.63	272.49	272.71	272.63	272.68	272.53	281.98	281.78
5	275.65	275.60	275.01	274.95	272.49	272.37	272.74	272.64	272.92	272.68	281.96	281.93
6	275.66	275.61	275.10	275.01	272.37	272.24	272.64	272.49	273.11	272.92	281.97	281.94
7	275.62	275.59	275.20	275.10	272.27	272.09	272.50	272.36	273.35	273.10	281.97	281.93
8	275.63	275.58	275.38	275.20	272.09	271.91	272.37	272.20	273.60	273.35	281.95	281.92
9	275.65	275.58	275.49	275.35	271.91	271.72	272.20	272.10	273.87	273.60	281.92	281.87
10	275.66	275.60	275.57	275.48	271.81	271.66	272.10	271.97	274.18	273.87	281.88	281.85
11	275.69	275.64	275.68	275.56	271.67	271.49	271.97	271.78	274.42	274.18	281.85	281.80
12	275.75	275.68	275.81	275.67	271.49	271.30	271.78	271.64	274.71	274.42	281.80	281.74
13	275.75	275.72	275.94	275.80	271.30	271.13	271.64	271.45	274.89	274.70	281.75	281.68
14	275.76	275.74	276.01	275.91	271.18	271.04	271.45	271.26	275.06	274.89	281.68	281.63
15	275.77	275.72	276.10	276.01	271.04	270.85	271.26	271.05	275.33	275.06	281.63	281.51
16	275.73	275.64	276.07	275.91	270.85	270.67	271.05	270.86	275.61	275.32	281.51	281.34
17	275.64	275.56	275.91	275.75	270.67	270.45	270.87	270.69	276.03	275.59	281.34	281.16
18	275.58	275.52	275.75	275.60	270.45	270.24	270.70	270.53	276.98	276.03	281.16	280.97
19	275.57	275.52	275.60	275.41	270.24	270.07	270.53	270.37	277.22	276.98	280.97	280.81
20	275.53	275.46	275.42	275.23	270.08	269.91	270.37	270.20	277.49	277.22	280.81	280.61
21	275.46	275.42	275.23	275.03	269.91	269.71	270.20	270.03	277.75	277.49	280.63	280.43
22	275.48	275.45	275.03	274.84	269.71	269.56	270.03	269.94	277.92	277.75	280.43	280.25
23	275.46	275.37	274.84	274.62	269.56	269.37	270.02	269.94	278.11	277.92	280.25	280.12
24	275.38	275.32	274.63	274.41	269.41	269.28	270.14	270.01	278.35	278.11	280.13	280.04
25	275.32	275.24	274.41	274.19	269.45	269.36	270.24	270.13	279.32	278.32	280.05	279.96
26	275.24	275.15	274.19	273.97	269.40	269.32	270.34	270.24	279.88	279.28	280.00	279.92
27	275.15	275.02	273.97	273.76	269.32	269.19	270.43	270.32	280.28	279.88	279.93	279.87
28	275.02	274.87	273.76	273.55	269.19	269.05	270.59	270.42	280.68	280.28	279.87	279.83
29	274.88	274.77	273.55	273.35	269.88	268.99	270.87	270.59	280.95	280.68	279.84	279.76
30	274.81	274.74	273.35	273.20	270.36	269.88	271.11	270.87	---	---	279.76	279.65
31	274.77	274.72	---	---	270.62	270.36	271.34	271.11	---	---	279.65	279.47
MONTH	275.77	274.72	276.10	273.20	273.20	268.99	272.74	269.94	280.95	271.34	281.98	279.47

11162750 CRYSTAL SPRINGS RESERVOIR AT DAM, NEAR SAN MATEO, CA—Continued

ELEVATION OF RESERVOIR WATER SURFACE ABOVE DATUM, FEET, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAY	MAX		MIN		MAX		MIN		MAX		MIN		MAX		MIN	
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER					
1	279.48	279.34	280.39	280.35	278.31	278.11	275.82	275.73	273.23	273.18	271.67	271.58				
2	279.35	279.29	280.46	280.38	278.11	278.01	275.74	275.62	273.19	273.09	271.75	271.67				
3	279.30	279.27	280.49	280.45	278.03	277.94	275.65	275.52	273.09	272.96	271.76	271.72				
4	279.31	279.27	280.53	280.49	277.94	277.84	275.55	275.41	272.97	272.86	271.77	271.72				
5	279.35	279.30	280.59	280.53	277.84	277.75	275.44	275.37	272.86	272.77	271.75	271.70				
6	279.43	279.35	280.67	280.58	277.78	277.70	275.39	275.28	272.78	272.62	271.76	271.66				
7	279.49	279.43	280.67	280.65	277.74	277.59	275.29	275.11	272.63	272.54	271.66	271.56				
8	279.54	279.48	280.70	280.66	277.62	277.44	275.13	274.97	272.56	272.47	271.56	271.43				
9	279.60	279.53	280.81	280.69	277.47	277.36	274.99	274.85	272.47	272.34	271.43	271.28				
10	279.61	279.59	280.84	280.77	277.39	277.29	274.85	274.75	272.34	272.24	271.29	271.19				
11	279.71	279.60	280.88	280.80	277.29	277.19	274.77	274.74	272.24	272.17	271.19	271.11				
12	279.77	279.70	280.92	280.87	277.20	277.02	274.76	274.67	272.17	272.03	271.13	271.10				
13	279.86	279.76	280.94	280.88	277.02	276.87	274.69	274.66	272.03	271.88	271.12	271.05				
14	279.87	279.85	280.88	280.70	276.88	276.78	274.68	274.60	271.88	271.80	271.07	270.96				
15	279.87	279.85	280.71	280.58	276.78	276.68	274.61	274.54	271.88	271.84	270.96	270.85				
16	279.87	279.85	280.61	280.46	276.68	276.56	274.54	274.43	271.86	271.80	270.85	270.77				
17	279.90	279.86	280.48	280.34	276.61	276.53	274.43	274.33	271.85	271.78	270.80	270.66				
18	279.97	279.90	280.34	280.18	276.57	276.48	274.33	274.29	271.85	271.79	270.67	270.59				
19	280.03	279.97	280.18	280.01	276.48	276.37	274.30	274.24	271.80	271.74	270.62	270.59				
20	280.12	280.01	280.02	279.90	276.37	276.33	274.26	274.18	271.78	271.70	270.62	270.57				
21	280.23	280.12	279.90	279.74	276.38	276.33	274.19	274.11	271.74	271.69	270.59	270.53				
22	280.25	280.21	279.74	279.61	276.36	276.29	274.11	274.03	271.79	271.73	270.53	270.36				
23	280.27	280.25	279.61	279.45	276.29	276.25	274.04	273.93	271.80	271.74	270.36	270.14				
24	280.27	280.25	279.46	279.30	276.25	276.21	273.93	273.82	271.75	271.71	270.14	270.01				
25	280.27	280.25	279.30	279.14	276.22	276.14	273.82	273.76	271.74	271.70	270.02	269.86				
26	280.26	280.24	279.15	279.01	276.16	276.08	273.76	273.69	271.73	271.68	269.86	269.75				
27	280.27	280.24	279.01	278.90	276.11	276.07	273.69	273.62	271.73	271.68	269.77	269.64				
28	280.30	280.24	278.90	278.73	276.10	275.99	273.63	273.46	271.69	271.62	269.64	269.59				
29	280.32	280.29	278.75	278.61	276.03	275.93	273.48	273.37	271.62	271.55	269.60	269.49				
30	280.35	280.31	278.61	278.48	275.94	275.81	273.40	273.26	271.58	271.51	269.50	269.38				
31	---	---	278.48	278.31	---	---	273.34	273.23	271.58	271.53	---	---				
MONTH	280.35	279.27	280.94	278.31	278.31	275.81	275.82	273.23	273.23	271.51	271.77	269.38				

372844122043800 SOUTH SAN FRANCISCO BAY AT CHANNEL MARKER 17, NEAR PALO ALTO, CA

LOCATION.—Lat 37°28'44", long 122°04'38", unsurveyed, T.5 S., R.2 W., Alameda County, Hydrologic Unit 18050003, at Coast Guard channel marker 17.

PERIOD OF DAILY RECORD.—December 2003 to September 2004.

SPECIFIC CONDUCTANCE: December 2003 to September 2004.

WATER TEMPERATURE: December 2003 to September 2004.

INSTRUMENTATION.—Water-quality monitor since February 1992. Sediment data since February 1992 available in the files of the U.S. Geological Survey.

REMARKS.—Interruptions in record were due to malfunction of sensing and (or) recording instruments. Upper probes are set about 12 ft below water surface at Mean Lower Low Water (MLLW). Lower probes are set about 22 ft below MLLW. MLLW is about 25 ft at the site. The upper conductivity record is rated excellent except for the following periods of calibration drift and fouling: Dec. 31 to Feb. 26, Sept. 20–23, which are rated good; May 13–18, which are rated fair; and June 3–9, 19–22, July 11–21, Aug. 20 to Sept. 1, which are rated poor. The lower conductivity record is rated excellent except for the following periods of calibration drift and fouling: Dec. 31 to Apr. 6, June 3–19, July 16 to Sept. 30, which are rated good; May 13–18, which are rated fair; and June 21 to July 1, which are rated poor. Upper and lower temperature records are rated excellent.

EXTREMES FOR PERIOD OF DAILY RECORD.—

SPECIFIC CONDUCTANCE: (Upper probe) Maximum recorded, 47,000 microsiemens, Sept. 19, 2004; minimum recorded, 17,500 microsiemens, Mar. 5, 2004.

(Lower probe) Maximum recorded, 47,300 microsiemens, Sept. 14, 18, 19, 2004; minimum recorded, 19,700 microsiemens, Mar. 6, 2004.

WATER TEMPERATURE: (Upper probe) Maximum recorded, 26.0°C, Sept. 8, 2004; minimum recorded, 9.5°C, Jan. 5–7, 2004.

(Lower probe) Maximum recorded, 25.5°C, Aug. 28, Sept. 9, 2004; minimum recorded, 9.5°C, Jan. 5, 6, 2004.

EXTREMES FOR CURRENT YEAR.—

SPECIFIC CONDUCTANCE: (Upper probe) Maximum recorded, 47,000 microsiemens, Sept. 19; minimum recorded, 17,500 microsiemens, Mar. 5.

(Lower probe) Maximum recorded, 47,300 microsiemens, Sept. 14, 18, 19; minimum recorded, 19,700 microsiemens, Mar. 6.

WATER TEMPERATURE: (Upper probe) Maximum recorded, 26.0°C, Sept. 8; minimum recorded, 9.5°C, Jan. 5–7.

(Lower probe) Maximum recorded, 25.5°C, Aug. 28, Sept. 9; minimum recorded, 9.5°C, Jan. 5, 6.

SPECIFIC CONDUCTANCE, WATER, UNFILTERED, MICROSIEMENS PER CENTIMETER AT 25 DEGREES CELSIUS

WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

(UPPER PBOBE)

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	---	---	---	---	---	---	40700	26100	35000	26200	29500	24300
2	---	---	---	---	---	---	39700	24900	35600	26000	28200	21700
3	---	---	---	---	43300	35900	38200	25000	34900	22600	28100	20200
4	---	---	---	---	43400	35800	38100	26300	34100	19700	27800	19700
5	---	---	---	---	43400	35400	37800	25500	34000	21500	27700	17500
6	---	---	---	---	43400	34100	37800	27200	34000	22400	27500	17700
7	---	---	---	---	43200	33300	38100	25800	33600	21300	27300	18500
8	---	---	---	---	43000	30400	37800	28400	33500	21800	27200	19000
9	---	---	---	---	43200	32800	37900	29100	33300	23800	27000	20000
10	---	---	---	---	---	---	37400	28800	33500	24600	26700	19300
11	---	---	---	---	42300	26600	37100	29500	33700	25700	26400	19500
12	---	---	---	---	42400	31800	36900	28900	33900	26200	26100	18700
13	---	---	---	---	42300	33400	36800	28500	33800	25700	26000	19000
14	---	---	---	---	42400	29000	36800	29800	34300	26300	26000	18800
15	---	---	---	---	41300	30000	36800	29700	34200	25500	26100	18800
16	---	---	---	---	41600	32800	36900	28900	35300	24800	26200	18500
17	---	---	---	---	---	---	37000	28200	36100	25500	26300	18700
18	---	---	---	---	41900	34600	37100	27100	35500	20900	26300	18500
19	---	---	---	---	42200	32900	37000	24500	35000	18800	26300	19200
20	---	---	---	---	42300	30300	37000	23700	34900	22100	26500	19800
21	---	---	---	---	---	---	36800	23200	34600	23500	26500	19900
22	---	---	---	---	42100	24800	36100	21700	34500	24500	26700	19300
23	---	---	---	---	42400	26400	36600	26300	34300	25800	26700	19200
24	---	---	---	---	42500	27100	36200	23700	34300	26600	26900	18700
25	---	---	---	---	41800	22200	35800	24100	34800	28500	26600	19200
26	---	---	---	---	40900	22700	35800	26400	35200	27600	26400	18300
27	---	---	---	---	40300	27600	35800	29000	35600	29500	26300	18800
28	---	---	---	---	40300	29200	35100	29100	32700	23300	26000	18900
29	---	---	---	---	41600	26900	35000	27700	31800	24100	30500	20800
30	---	---	---	---	40800	31300	35200	28500	---	---	27100	20800
31	---	---	---	---	---	---	34600	27700	---	---	27100	19600
MONTH	---	---	---	---	---	---	40700	21700	36100	18800	30500	17500

372844122043800 SOUTH SAN FRANCISCO BAY AT CHANNEL MARKER 17, NEAR PALO ALTO, CA—Continued

 TEMPERATURE, WATER, DEGREES CELSIUS, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
 (LOWER PROBE)

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	---	---	---	---	---	---	11.0	10.5	11.0	10.5	13.5	12.5
2	---	---	---	---	---	---	11.0	10.5	11.5	11.0	15.0	12.5
3	---	---	---	---	14.0	13.0	11.0	10.5	11.5	11.0	13.5	13.0
4	---	---	---	---	13.0	12.5	10.5	10.0	12.5	11.0	14.5	13.0
5	---	---	---	---	14.0	13.0	10.0	9.5	12.5	11.5	14.5	13.5
6	---	---	---	---	14.0	13.0	10.0	9.5	12.5	11.5	15.5	13.5
7	---	---	---	---	14.0	13.5	10.0	10.0	12.5	11.5	16.0	14.0
8	---	---	---	---	13.5	12.5	10.5	10.0	12.5	11.5	17.0	14.5
9	---	---	---	---	13.5	11.5	11.0	10.5	12.0	11.0	18.0	15.5
10	---	---	---	---	12.5	12.0	11.5	10.5	12.5	11.0	18.5	16.0
11	---	---	---	---	12.5	11.5	12.0	11.0	12.5	11.5	18.0	16.5
12	---	---	---	---	12.0	11.5	11.5	11.0	12.0	12.0	18.5	16.5
13	---	---	---	---	12.5	11.5	12.0	11.0	12.0	11.5	19.0	17.0
14	---	---	---	---	12.5	12.0	11.5	11.0	12.5	11.5	20.5	17.0
15	---	---	---	---	12.5	12.0	11.5	11.0	13.5	11.5	21.0	17.5
16	---	---	---	---	12.0	11.5	12.0	11.0	13.0	12.0	---	---
17	---	---	---	---	12.0	11.5	12.5	11.0	13.0	12.0	---	---
18	---	---	---	---	12.0	11.5	12.5	11.0	14.5	12.5	21.5	18.5
19	---	---	---	---	11.5	11.5	---	---	13.5	13.0	21.0	19.0
20	---	---	---	---	12.0	11.0	12.0	11.5	13.0	12.5	21.0	18.5
21	---	---	---	---	12.5	11.5	12.0	11.5	13.5	12.5	20.0	18.5
22	---	---	---	---	12.5	12.0	12.0	11.0	13.5	12.5	19.5	17.5
23	---	---	---	---	12.0	12.0	11.5	11.0	14.0	12.5	19.0	17.0
24	---	---	---	---	12.5	12.0	11.5	11.0	14.0	13.0	18.5	17.0
25	---	---	---	---	12.0	11.0	---	---	---	---	18.0	17.0
26	---	---	---	---	11.5	10.0	11.5	11.0	---	---	17.0	15.0
27	---	---	---	---	11.0	10.0	11.5	11.0	13.0	12.5	16.5	15.5
28	---	---	---	---	10.5	10.0	11.5	11.0	12.5	12.5	17.0	15.5
29	---	---	---	---	10.5	10.0	11.5	11.0	13.0	12.5	17.0	16.0
30	---	---	---	---	10.5	10.0	12.0	11.0	---	---	17.5	16.0
31	---	---	---	---	10.5	10.5	12.0	11.0	---	---	17.5	15.0
MONTH	---	---	---	---	---	---	---	---	---	---	---	---
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	17.0	15.5	22.0	19.5	23.0	20.0	---	---	23.0	21.0	---	---
2	17.0	15.0	24.0	20.0	22.0	20.0	22.5	20.5	22.5	20.5	23.0	21.0
3	18.0	15.5	23.5	20.0	21.5	20.0	22.5	21.0	21.5	20.0	23.0	21.5
4	17.5	16.0	22.0	19.5	21.0	19.5	22.5	21.0	22.0	20.5	24.0	22.5
5	17.5	15.5	21.0	18.0	20.5	19.5	22.5	21.5	21.5	20.5	24.5	23.0
6	---	---	20.0	18.0	20.5	19.5	22.5	21.5	22.5	20.5	25.0	23.5
7	17.5	15.0	19.5	18.5	20.0	18.0	22.5	21.5	23.0	21.5	25.0	24.0
8	17.0	16.0	20.0	19.0	19.0	17.5	22.5	21.5	24.0	22.0	25.0	24.0
9	17.0	16.5	20.0	18.0	---	---	22.5	21.5	24.0	22.5	25.5	24.0
10	18.5	16.5	18.5	16.5	20.5	18.0	22.5	21.5	23.5	22.0	25.0	22.5
11	18.5	16.5	18.5	16.5	20.5	18.5	23.0	21.5	23.5	22.0	25.0	22.0
12	19.5	16.5	20.0	16.5	21.0	19.0	24.0	22.0	24.5	22.5	24.0	22.5
13	18.5	16.0	21.0	17.0	22.0	19.5	23.5	21.0	24.5	22.0	23.5	21.0
14	18.5	16.0	21.0	18.0	22.0	20.0	23.0	20.5	23.5	22.0	23.5	20.5
15	18.0	16.0	21.0	18.5	22.0	20.5	23.0	20.5	23.0	21.0	23.5	21.0
16	17.5	15.5	20.5	18.5	23.5	20.5	23.5	21.0	23.0	21.0	23.0	21.5
17	17.0	15.5	19.5	17.5	23.0	21.0	23.5	21.5	23.5	21.5	23.0	21.5
18	16.5	15.0	---	---	23.0	21.0	24.0	22.0	23.0	21.5	22.5	18.5
19	16.5	15.0	19.5	17.5	22.5	21.0	24.0	22.5	23.0	21.5	20.0	18.0
20	17.0	15.5	19.0	17.5	22.0	20.0	23.5	21.5	23.0	21.5	19.0	18.0
21	16.5	15.5	19.0	17.5	21.5	19.5	23.0	21.5	23.0	22.0	20.0	18.5
22	17.0	15.0	18.0	16.5	20.5	19.5	23.0	22.0	22.5	22.0	20.5	19.0
23	18.0	16.5	17.5	17.0	21.0	19.5	23.0	22.0	23.0	22.0	---	---
24	18.5	17.0	17.5	17.0	21.0	19.5	23.0	22.0	23.5	22.5	21.5	20.0
25	20.0	17.5	19.0	17.0	21.0	19.5	23.5	22.5	24.0	22.5	22.0	20.0
26	21.0	18.0	19.5	17.5	22.0	20.0	24.0	22.5	24.0	22.5	22.0	20.0
27	21.5	18.5	20.5	18.0	21.5	20.0	24.5	23.0	24.5	23.0	21.0	19.0
28	---	---	21.0	19.0	22.5	20.5	24.5	23.0	25.5	23.0	21.0	19.0
29	22.5	19.0	21.5	18.0	23.0	21.5	24.5	22.0	24.5	22.5	20.5	19.0
30	22.5	19.5	22.5	19.0	23.0	21.5	24.5	22.0	24.0	22.0	20.5	19.0
31	---	---	23.0	20.0	---	---	23.5	21.5	23.5	22.0	---	---
MONTH	---	---	---	---	---	---	---	---	25.5	20.0	---	---

11162765 SAN FRANCISCO BAY AT SAN MATEO BRIDGE, NEAR FOSTER CITY, CA

LOCATION.—Lat 37°35'04", long 122°14'59", unsurveyed, T.4 S., R.4 W., San Mateo County, Hydrologic Unit 18050004, on Pier 20 of the San Mateo Bridge.

PERIOD OF DAILY RECORD.—October 1989 to current year.

SPECIFIC CONDUCTANCE: October 1989 to current year.

WATER TEMPERATURE: October 1989 to current year.

INSTRUMENTATION.—Water-quality monitor since October 1989.

REMARKS.—Interruptions in record were usually due to malfunction of the sensing and (or) recording instruments. Upper probe is set about 4 ft below water surface at Mean Lower Low Water (MLLW). Lower probe is set about 38 ft below the surface at MLLW. MLLW is about 48 ft deep. Daily maximums and minimums sometimes differ from tidal-cycle (24.8 hours) maximums and minimums. The upper conductivity records are rated good except for the following periods of heavy fouling which are rated fair: June 21 to July 1, and Sept. 14–23. The lower conductivity records are rated good except for the following periods of heavy fouling, which is rated fair: May 26 to June 10, and June 25 to July 1. The upper temperature records are rated excellent except for Oct. 21 to Dec. 2, and May 18–29, which are rated good. The lower temperature records are rated excellent except for Dec. 2–23, and Mar. 10–16, which are rated good.

EXTREMES FOR PERIOD OF DAILY RECORD.—

SPECIFIC CONDUCTANCE: (Upper probe) Maximum recorded, 50,200 microsiemens, Sept. 5, 1990; minimum recorded, 11,500 microsiemens, Mar. 17, 1996.

(Lower probe) Maximum recorded, 50,300 microsiemens, Oct. 31, Nov. 4, 9, 1990; minimum recorded, 14,900 microsiemens, Mar. 5, 1998.

WATER TEMPERATURE: (Upper probe) Maximum recorded, 24.0°C, Aug. 30, Sept. 9, 10, 2004; minimum recorded, 6.5°C, on several days in December 1990 and January 1991.

(Lower probe) Maximum recorded, 23.5°C, Sept. 8–12, 2004; minimum recorded, 6.5°C, Dec. 30, 1990, to Jan. 2, 1991.

EXTREMES FOR CURRENT YEAR.—

SPECIFIC CONDUCTANCE: (Upper probe) Maximum recorded, 47,400 microsiemens, Sept. 13, 16, 30; minimum recorded, 24,900 microsiemens, Feb. 29.

(Lower probe) Maximum recorded, 47,500 microsiemens, Sept. 23; minimum recorded, 27,100 microsiemens, Mar. 4.

WATER TEMPERATURE: (Upper probe) Maximum recorded, 24.0°C, Aug. 30, Sept. 9, 10; minimum recorded, 10.0°C, Jan. 4–11.

(Lower probe) Maximum recorded, 23.5°C, Sept. 8–12; minimum recorded, 10.0°C, Jan. 4–10.

SPECIFIC CONDUCTANCE, WATER, UNFILTERED, MICROSIEMENS PER CENTIMETER AT 25 DEGREES CELSIUS

WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

(UPPER PROBE)

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	44800	43900	45400	44400	---	---	42200	40700	37300	36800	30100	26100
2	---	---	45500	44500	---	---	41700	39900	37600	36600	28400	26700
3	44900	44000	45500	44600	45400	44300	41500	38600	37700	36400	28500	25900
4	44800	44100	45600	44500	45400	44300	41000	39200	37500	36000	27800	26000
5	44900	44200	45400	44400	45200	44200	40600	39100	37600	36100	27900	26500
6	45000	44100	45500	44500	45200	44100	40000	38600	37600	36000	27700	26600
7	45100	44100	---	---	45100	43900	39600	38500	37400	35800	27600	26700
8	45000	44200	---	---	45000	43600	39200	38400	37500	35800	27500	26700
9	45000	44100	---	---	45000	44000	39100	38200	37500	36000	27400	26800
10	45100	44200	---	---	44900	43900	39000	38100	37500	35900	27500	26800
11	45200	44100	---	---	44800	43600	38700	37900	37600	36200	27500	26800
12	45200	44200	---	---	44700	43500	38600	37800	37600	36300	27500	26800
13	45200	44300	---	---	44600	43500	38600	37900	37600	36100	27400	26900
14	45300	44400	45600	43900	44600	43400	38600	37800	38000	36100	27500	27000
15	45300	44300	45700	43900	44500	43100	38500	37300	---	---	28200	27000
16	45400	44400	45600	44200	44600	43100	38300	36600	38000	36600	29100	27000
17	---	---	45400	44100	44500	43200	38100	36900	38100	36700	29500	27400
18	---	---	45500	44300	44500	43200	38000	37200	37900	36400	30000	27600
19	---	---	45500	44200	44300	43200	37900	37100	---	---	30200	27700
20	---	---	45500	44300	44200	43100	37800	37100	37800	36400	30500	27800
21	---	---	45600	44000	44100	42800	37700	37000	37800	36400	30500	28300
22	---	---	45300	43800	44000	42700	37600	37000	37700	36500	30700	28400
23	45500	44200	45600	44100	43800	42700	37600	37000	37700	36300	30600	28300
24	45400	44200	45700	44100	43700	42700	37500	37000	37700	36700	30400	28200
25	45600	44100	45700	44000	43500	42300	37500	37000	37800	36200	31000	28400
26	45500	44000	45600	43900	43300	42100	37400	37000	36900	36000	31400	28600
27	45500	44200	45500	44100	43400	42200	37300	36900	36500	30200	31900	28600
28	45500	44200	45500	44300	43300	42000	37300	37000	33800	27100	32800	28700
29	45500	44100	---	---	43100	41800	---	---	29900	24900	33500	29400
30	45400	44200	---	---	42600	41800	---	---	---	---	32500	28800
31	45400	44300	---	---	42400	41400	37200	36600	---	---	32400	29100
MONTH	---	---	---	---	---	---	---	---	---	---	33500	25900

11162765 SAN FRANCISCO BAY AT SAN MATEO BRIDGE, NEAR FOSTER CITY, CA—Continued

SPECIFIC CONDUCTANCE, WATER, UNFILTERED, MICROSIEMENS PER CENTIMETER AT 25 DEGREES CELSIUS
 WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
 (UPPER PROBE)

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	32500	29500	37500	34900	---	---	44800	42900	46300	45600	---	---
2	32500	29500	37700	35200	---	---	44600	43100	46400	45600	47000	46500
3	32800	29800	38000	35300	---	---	44700	43100	46400	45700	47100	46600
4	32900	30200	38100	35200	---	---	44500	43000	46500	45800	47300	46500
5	33000	30500	37800	35100	---	---	44500	43100	46500	45900	47200	46600
6	33100	30400	38200	35300	---	---	44400	43100	46400	46000	47200	46700
7	33400	30600	38500	35600	---	---	44500	43200	46500	46000	47200	46400
8	34000	30700	38400	35700	---	---	44600	43400	46600	46000	47200	46800
9	34100	30700	---	---	---	---	44500	43400	46500	45900	47300	46900
10	34900	31300	---	---	---	---	44400	43400	46400	46000	47300	46700
11	34900	31500	---	---	42000	40800	44800	43300	46400	45900	47300	46700
12	35100	31600	---	---	42200	40900	44500	43500	46700	46100	47200	46800
13	35200	31700	---	---	42900	40900	44700	43500	46600	46100	47400	46800
14	35600	32100	---	---	43000	41100	44600	43600	46700	46100	47300	46700
15	35900	32700	---	---	43500	41300	44800	43700	46600	46200	47300	46800
16	36200	33100	---	---	43400	41400	44900	43800	46600	46200	47400	46700
17	35900	33300	---	---	43500	41600	44900	43700	46600	46200	47300	46600
18	36200	33000	---	---	43600	41700	45000	44000	46700	46200	47300	46600
19	36300	33500	40200	38000	43500	41700	45100	44100	46600	46100	47300	46600
20	36600	34000	40200	38000	43200	41700	45100	44300	46600	46200	47300	46800
21	36600	34100	40200	38100	43100	41700	---	---	46600	46200	47200	46500
22	36200	33600	40300	38200	43400	42200	45100	44500	46600	46300	47300	46600
23	36400	33800	40200	38400	43600	42300	45100	44600	46700	46200	47300	46800
24	36400	33700	40200	38500	43300	42300	45200	44700	46600	46300	47300	46900
25	36700	33700	40400	38600	43400	42200	45300	44900	46600	46200	47300	46900
26	37000	34000	40400	38700	43900	42200	45500	44900	46700	46200	47300	47000
27	37400	34100	40500	38800	44000	42300	45700	45100	46700	46000	47300	47000
28	37200	34400	40700	38900	44100	42500	45900	45200	46900	45700	47300	46900
29	37000	34700	40500	38900	---	---	46100	45200	46900	45900	47300	46900
30	37100	34800	40800	39000	44800	42800	46200	45400	46700	44500	47400	47000
31	---	---	40800	38600	---	---	46300	45500	46900	46100	---	---
MONTH	37400	29500	---	---	---	---	---	---	46900	44500	---	---

11162765 SAN FRANCISCO BAY AT SAN MATEO BRIDGE, NEAR FOSTER CITY, CA—Continued

SPECIFIC CONDUCTANCE, WATER, UNFILTERED, MICROSIEMENS PER CENTIMETER AT 25 DEGREES CELSIUS

WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

(LOWER PROBE)

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	44900	44000	45500	44600	---	---	42400	41700	37300	36800	34900	30900
2	---	---	45600	44600	---	---	42100	40900	37600	36800	33800	27900
3	44900	44100	45500	44600	45500	44600	41600	40100	37600	36600	31500	27500
4	45100	44200	45500	44500	45600	44600	41200	40000	37700	36300	29400	27100
5	45100	44100	45400	44600	45400	44400	40700	39700	37800	36200	28200	27200
6	45200	44100	45600	44500	45300	44400	40300	39200	37800	36200	28000	27200
7	45100	44000	---	---	45300	44100	39700	38900	37600	36100	28000	27300
8	45200	44100	---	---	45100	44000	39500	38600	37600	36100	27900	27200
9	45200	44100	---	---	45200	44300	39200	38400	37600	36400	27800	27200
10	45300	44100	---	---	45200	44100	39100	38200	37600	36500	27800	27200
11	45300	44200	---	---	45000	43800	39000	38200	37700	36600	27900	27300
12	45300	44300	---	---	45000	43900	38900	38200	37800	36600	27900	27300
13	45400	44400	---	---	44900	43900	38900	38100	37900	36600	27800	27300
14	45300	44400	45700	44600	44800	43800	38600	38100	38100	36600	28500	27400
15	45300	44200	45700	44500	44800	43800	38600	37900	---	---	29500	27300
16	45300	44300	45600	44400	44800	43800	38400	37500	38300	37000	30400	27600
17	---	---	45500	44600	44700	43800	38100	37100	38300	37200	30800	27800
18	---	---	45600	44300	44600	43800	38000	37100	38200	36600	31000	28200
19	---	---	45500	44400	44500	43600	37900	37100	38000	36600	30700	28200
20	---	---	45500	44500	44500	43500	37900	37000	37900	36700	31100	28500
21	---	---	45500	44000	44100	43100	37800	37000	38000	36700	30900	28700
22	---	---	45400	43900	44100	42900	37700	37000	37900	36700	31300	28900
23	45700	44500	45500	44000	44100	43200	37600	37000	37900	36900	30900	28700
24	45800	44500	45600	44000	44000	43100	37500	36900	37900	37100	30800	28600
25	45700	44500	45600	44000	43800	42700	37500	36900	38000	36800	32300	28800
26	45900	44500	45500	44000	43700	42500	37500	37000	37400	36800	33000	29600
27	45800	44500	45600	44100	43700	42500	37400	37000	37100	36200	33500	30400
28	45700	44600	45600	44400	43500	42500	37400	36800	36500	34100	34000	32000
29	45800	44400	---	---	43400	42700	---	---	35500	31200	34500	32800
30	45700	44400	---	---	43000	42300	---	---	---	---	33600	30000
31	45500	44600	---	---	42500	42000	37300	36700	---	---	32200	30100
MONTH	---	---	---	---	---	---	---	---	---	---	34900	27100
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	32700	29700	37900	35900	---	---	44800	43100	46300	45500	47000	46400
2	32400	29800	38400	36000	---	---	44800	43100	46300	45700	47100	46700
3	32700	30000	38600	35900	---	---	44600	43100	46400	45700	47100	46800
4	32900	30300	38700	35800	---	---	44600	43200	46400	45700	47200	46700
5	33200	30700	38700	35600	---	---	44600	43100	46300	45700	47200	46800
6	33500	30700	38600	35500	---	---	44500	43200	46400	45800	47200	46800
7	34200	31100	39100	36100	---	---	44400	43200	46400	45800	47300	46800
8	34100	30700	39000	36200	---	---	44700	43200	46500	45900	47200	46800
9	34400	31100	---	---	---	---	44600	43400	46500	45900	47200	46900
10	35400	31500	---	---	---	---	44600	43200	46500	45900	47300	46900
11	35400	31900	---	---	42300	41000	44900	43300	46500	45900	47400	47000
12	36200	32400	---	---	42600	40700	44800	43400	46500	45900	47400	47000
13	35600	32200	---	---	43100	40700	44900	43500	46500	46000	47400	46900
14	36400	33000	---	---	43100	40900	44900	43600	46500	45700	47300	46900
15	36400	33600	---	---	43500	41200	45000	43800	46500	45900	47300	46800
16	36600	34000	---	---	43400	41300	45000	43900	46600	46000	47300	46700
17	36700	34200	---	---	43400	41300	45100	43500	46500	46100	47400	46700
18	36700	34200	---	---	43500	41400	45300	43800	46600	46200	47400	46800
19	36900	34200	40600	38200	43400	41000	45400	44000	46600	46200	47400	47000
20	37000	35000	40600	38200	43100	41100	45300	44100	46700	46300	47400	46900
21	37100	34800	40700	38400	43100	41400	---	---	46700	46300	47400	46700
22	36900	34600	40700	38500	43200	41800	45300	44600	46700	46300	47300	46800
23	36900	34500	40800	38700	43700	41900	45300	44700	46700	46300	47500	46900
24	37000	34800	40700	38800	43500	42000	45300	44800	46700	46300	47400	47000
25	37400	35400	41100	39000	44100	42000	45400	44900	46700	46300	47400	47100
26	37700	35900	41000	39100	44500	42200	45600	45000	46800	45500	47400	47100
27	38000	36200	41000	39200	44500	42200	45800	45100	46700	46200	47400	47000
28	38000	35900	41400	39300	44300	42600	46000	45200	47000	45800	47400	47000
29	37900	35600	41400	39400	---	---	46300	45300	47000	46300	47400	47000
30	37700	35800	41800	39400	44800	42900	46200	45400	47000	45700	47400	47000
31	---	---	41800	39400	---	---	46300	45200	47000	46400	---	---
MONTH	38000	29700	---	---	---	---	---	---	47000	45500	47500	46400

11162765 SAN FRANCISCO BAY AT SAN MATEO BRIDGE, NEAR FOSTER CITY, CA—Continued

TEMPERATURE, WATER, DEGREES CELSIUS, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

(UPPER PROBE)

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	20.0	19.5	17.5	17.0	---	---	11.0	10.5	11.0	11.0	12.5	12.0
2	---	---	17.0	16.5	---	---	11.0	10.5	11.0	11.0	13.0	12.0
3	20.0	19.5	16.5	16.0	13.0	13.0	10.5	10.5	11.0	11.0	13.0	12.0
4	19.5	19.0	16.5	16.0	13.0	13.0	10.5	10.0	11.5	11.0	13.0	12.0
5	19.5	19.0	16.0	15.5	13.0	13.0	10.0	10.0	11.5	11.0	13.0	12.0
6	19.5	19.0	16.5	15.5	13.0	13.0	10.0	10.0	11.5	11.0	13.5	12.5
7	19.5	18.5	---	---	13.5	13.0	10.0	10.0	11.5	11.0	14.0	13.0
8	19.5	18.5	---	---	13.0	13.0	10.5	10.0	11.5	11.0	14.5	13.0
9	19.5	18.5	---	---	13.0	13.0	10.5	10.0	11.5	11.0	15.0	13.0
10	19.0	18.0	---	---	13.0	12.5	10.5	10.0	11.5	11.0	15.0	13.5
11	18.5	18.0	---	---	12.5	12.5	10.5	10.0	11.5	11.0	16.0	14.0
12	18.5	18.0	---	---	12.5	12.0	11.0	10.5	12.0	11.5	16.0	14.5
13	18.5	18.0	---	---	12.5	12.0	11.0	10.5	11.5	11.5	16.5	14.5
14	18.5	18.0	15.5	15.0	12.5	12.0	11.0	10.5	12.0	11.5	17.0	15.5
15	18.5	18.0	15.5	15.0	12.5	12.0	11.0	10.5	---	---	17.0	15.5
16	18.5	17.5	15.0	15.0	12.0	12.0	11.0	10.5	12.0	12.0	17.0	15.5
17	---	---	15.0	15.0	12.0	12.0	11.0	10.5	12.5	12.0	17.0	15.5
18	---	---	15.0	15.0	12.0	11.5	11.0	10.5	13.0	12.0	17.5	15.5
19	---	---	15.0	15.0	12.0	11.5	11.0	11.0	12.5	12.0	18.0	15.5
20	---	---	15.0	15.0	12.0	11.5	11.0	11.0	12.5	12.0	18.0	15.5
21	---	---	15.0	14.5	12.0	12.0	11.0	11.0	12.5	12.0	17.5	16.0
22	---	---	14.5	13.5	12.0	12.0	11.5	11.0	12.5	12.0	17.5	16.0
23	19.0	18.0	14.0	13.5	12.0	12.0	11.5	11.0	13.0	12.0	17.5	16.0
24	19.0	18.0	13.5	13.0	12.0	12.0	11.5	11.0	13.0	12.5	17.5	16.0
25	19.0	18.0	13.5	13.0	12.0	11.5	11.0	11.0	13.0	12.5	17.0	16.0
26	19.0	18.0	13.5	12.5	12.0	11.5	11.0	11.0	13.0	12.5	16.5	15.5
27	19.5	18.0	13.0	12.5	11.5	11.0	11.0	11.0	13.5	12.0	16.5	15.5
28	19.5	18.5	13.0	12.5	11.5	10.5	11.0	11.0	13.0	12.0	17.0	15.0
29	19.5	18.5	---	---	11.0	10.5	---	---	12.5	12.0	17.0	15.0
30	19.0	18.0	---	---	11.0	10.5	---	---	---	---	16.5	15.5
31	18.0	17.5	---	---	11.0	10.5	11.0	11.0	---	---	16.5	15.0
MONTH	---	---	---	---	---	---	---	---	---	---	18.0	12.0
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	16.0	15.0	19.5	17.5	---	---	21.0	19.0	22.0	21.0	23.0	22.0
2	16.0	14.5	20.0	17.5	---	---	20.5	19.0	22.0	20.5	22.5	22.0
3	16.0	15.0	20.0	17.5	---	---	21.0	19.5	21.5	20.5	22.5	22.0
4	16.0	15.0	19.5	17.5	---	---	21.0	19.5	21.0	20.5	23.0	22.0
5	16.0	15.0	19.5	17.5	---	---	21.0	20.0	21.0	20.5	23.0	22.5
6	16.0	15.0	19.0	17.5	---	---	21.5	20.5	21.0	20.5	23.5	22.5
7	15.5	14.5	19.0	17.0	---	---	21.5	20.5	21.0	20.5	23.5	22.5
8	15.5	14.5	19.0	18.0	---	---	21.5	20.5	21.5	21.0	23.5	23.0
9	16.0	15.0	---	---	---	---	21.5	20.5	22.0	21.0	24.0	22.5
10	16.0	15.0	---	---	---	---	21.5	21.0	22.0	21.0	24.0	22.5
11	16.5	15.5	---	---	18.5	18.0	22.0	20.5	22.0	20.5	23.5	22.5
12	16.5	15.5	---	---	18.5	18.0	22.0	20.5	22.0	21.0	23.5	22.0
13	16.5	15.5	---	---	19.0	17.5	22.0	20.5	22.0	21.0	23.0	21.5
14	16.5	15.5	---	---	19.0	17.5	21.5	20.5	22.0	21.0	22.5	21.5
15	16.5	15.5	---	---	19.5	18.0	21.5	20.5	22.0	21.0	22.5	21.5
16	16.5	15.5	---	---	19.5	18.0	21.5	20.5	22.0	21.0	22.5	21.5
17	16.0	15.5	---	---	20.0	18.5	21.5	20.5	22.0	21.0	22.5	21.0
18	16.0	15.0	---	---	20.5	18.5	22.0	20.5	22.0	21.0	22.0	20.5
19	15.5	15.0	17.5	17.0	20.5	19.0	22.0	21.0	22.0	21.0	21.0	19.5
20	16.0	15.0	18.0	17.0	20.5	19.5	22.5	21.5	22.0	21.5	21.0	19.5
21	15.5	15.0	18.0	17.0	20.5	19.0	---	---	22.0	21.5	20.5	19.5
22	16.0	15.5	17.5	17.0	20.5	19.0	22.5	21.5	22.0	21.5	20.5	19.5
23	16.5	15.5	17.5	17.0	20.0	19.0	22.5	21.5	22.0	21.5	21.0	19.5
24	17.0	16.0	17.5	17.0	20.0	19.5	22.5	22.0	22.0	21.5	21.0	20.0
25	18.5	16.5	18.0	17.0	20.0	19.0	23.0	22.0	22.5	21.5	20.5	20.0
26	19.0	17.0	18.0	17.0	20.0	18.5	23.0	22.0	22.5	21.5	20.5	19.5
27	19.0	17.5	18.5	17.5	20.0	18.5	23.0	22.0	23.0	21.5	20.5	19.5
28	19.5	18.0	18.5	18.0	20.0	19.0	23.0	21.5	23.0	21.5	20.0	19.5
29	19.5	18.0	18.5	18.0	20.5	19.0	23.0	21.5	23.5	21.5	20.0	19.5
30	19.5	17.5	19.0	18.0	20.5	19.0	23.0	21.5	24.0	22.0	20.0	19.0
31	---	---	19.5	18.0	---	---	22.5	21.0	23.0	22.0	---	---
MONTH	19.5	14.5	---	---	---	---	---	---	24.0	20.5	24.0	19.0

11162765 SAN FRANCISCO BAY AT SAN MATEO BRIDGE, NEAR FOSTER CITY, CA—Continued

TEMPERATURE, WATER, DEGREES CELSIUS, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

(LOWER PROBE)

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	20.0	19.5	17.5	17.0	---	---	11.0	11.0	11.0	11.0	12.5	12.5
2	---	---	17.0	16.0	---	---	11.0	10.5	11.0	11.0	12.5	12.0
3	20.0	19.0	17.0	16.0	13.0	13.0	11.0	10.5	11.0	11.0	12.5	12.5
4	19.5	19.0	16.5	16.0	13.0	13.0	10.5	10.0	11.5	11.0	13.0	12.0
5	19.5	19.0	16.0	15.5	13.0	13.0	10.5	10.0	11.5	11.0	13.0	12.0
6	19.5	18.5	16.5	15.5	13.0	13.0	10.0	10.0	11.5	11.0	13.5	12.5
7	19.5	18.5	---	---	13.5	13.0	10.0	10.0	11.5	11.0	14.0	12.5
8	19.5	18.5	---	---	13.5	13.0	10.5	10.0	11.5	11.0	14.0	12.5
9	19.5	18.0	---	---	13.0	13.0	10.5	10.0	11.5	11.0	14.0	13.0
10	19.0	18.0	---	---	13.0	12.5	10.5	10.0	11.5	11.0	14.5	13.5
11	18.5	18.0	---	---	13.0	12.5	10.5	10.5	11.5	11.0	15.0	14.0
12	18.5	17.5	---	---	12.5	12.5	10.5	10.5	11.5	11.5	15.5	14.0
13	18.5	17.5	---	---	12.5	12.5	11.0	10.5	11.5	11.5	16.0	14.5
14	18.5	17.5	15.5	15.0	12.5	12.5	10.5	10.5	12.0	11.5	16.0	15.0
15	18.5	17.5	15.5	15.0	12.5	12.0	11.0	10.5	---	---	16.5	14.5
16	18.5	17.5	15.0	15.0	12.5	12.0	11.0	10.5	12.0	12.0	17.0	14.5
17	---	---	15.0	15.0	12.0	12.0	11.0	10.5	12.0	12.0	17.0	14.5
18	---	---	15.0	14.5	12.0	12.0	11.0	11.0	12.5	12.0	17.0	15.0
19	---	---	15.0	15.0	12.0	12.0	11.0	11.0	12.5	12.0	17.5	15.5
20	---	---	15.0	15.0	12.0	11.5	11.0	11.0	12.5	12.0	17.5	15.5
21	---	---	15.0	14.0	12.0	12.0	11.0	11.0	12.5	12.0	17.5	15.5
22	---	---	14.5	14.0	12.0	12.0	11.5	11.0	12.5	12.0	17.0	15.5
23	19.0	18.0	14.0	13.5	12.0	12.0	11.5	11.0	12.5	12.0	17.0	16.0
24	19.0	18.0	13.5	13.0	12.0	12.0	11.5	11.0	12.5	12.0	17.0	16.0
25	19.0	18.0	13.5	12.5	12.0	11.5	11.0	11.0	12.5	12.5	17.0	15.5
26	19.5	18.0	13.5	12.5	12.0	11.5	11.0	11.0	12.5	12.5	16.0	15.0
27	19.5	18.5	13.0	12.5	11.5	11.0	11.0	11.0	12.5	12.5	15.5	14.5
28	19.5	18.5	13.0	12.5	11.5	11.0	11.0	11.0	12.5	12.5	15.0	14.5
29	19.5	18.5	---	---	11.0	11.0	---	---	12.5	12.5	15.5	14.5
30	19.0	17.5	---	---	11.0	10.5	---	---	---	---	16.0	14.5
31	18.0	17.5	---	---	11.0	10.5	11.0	11.0	---	---	15.5	15.0
MONTH	---	---	---	---	---	---	---	---	---	---	17.5	12.0
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	16.0	15.0	19.0	17.5	---	---	21.0	19.0	22.0	21.0	23.0	22.0
2	15.5	14.5	19.0	17.5	---	---	20.5	19.0	21.5	20.5	22.5	22.0
3	16.0	14.5	19.0	17.5	---	---	20.5	19.0	21.0	20.5	22.5	22.0
4	16.0	15.0	19.5	17.5	---	---	21.0	19.5	21.0	20.5	22.5	22.0
5	16.0	14.5	19.5	17.5	---	---	21.0	19.5	21.0	20.5	23.0	22.0
6	15.5	14.5	19.0	17.5	---	---	21.0	20.0	21.0	20.5	23.0	22.5
7	15.5	14.5	18.5	17.0	---	---	21.0	20.5	21.0	20.5	23.0	22.5
8	15.5	14.5	18.5	17.5	---	---	21.0	20.5	21.5	20.5	23.5	22.5
9	16.0	15.0	---	---	---	---	21.0	20.5	21.5	21.0	23.5	22.5
10	16.0	15.0	---	---	---	---	21.5	20.5	22.0	21.0	23.5	22.5
11	16.0	15.5	---	---	18.0	17.5	21.5	20.5	22.0	20.5	23.5	22.0
12	16.0	15.0	---	---	18.5	17.5	21.5	20.5	22.0	21.0	23.5	22.0
13	16.0	15.5	---	---	18.5	17.5	21.5	20.5	22.0	21.0	23.0	21.5
14	16.0	15.0	---	---	19.0	17.5	21.5	20.5	22.0	21.0	22.5	21.0
15	16.0	15.0	---	---	19.5	18.0	21.5	20.0	22.0	21.0	22.5	21.5
16	16.0	15.5	---	---	19.5	18.0	21.5	20.5	22.0	21.0	22.5	21.5
17	16.0	15.5	---	---	20.0	18.0	21.5	20.5	22.0	21.0	22.0	21.0
18	16.0	15.0	---	---	20.0	18.5	22.0	20.5	22.0	21.0	21.5	20.5
19	15.5	15.0	17.5	17.0	20.5	18.5	22.0	21.0	22.0	21.0	21.0	19.5
20	15.5	15.0	18.0	17.0	20.5	19.0	22.0	21.0	22.0	21.0	20.5	19.0
21	16.0	15.0	18.0	17.0	20.5	19.0	---	---	22.0	21.5	20.5	19.0
22	16.0	15.0	17.5	17.0	20.0	19.0	22.0	21.5	22.0	21.5	20.5	19.5
23	16.5	15.5	17.5	16.5	20.0	18.5	22.0	21.5	22.0	21.5	20.0	19.5
24	17.0	16.0	17.5	17.0	20.0	19.0	22.0	21.5	22.0	21.5	20.5	20.0
25	17.0	16.0	17.5	17.0	19.5	19.0	22.5	22.0	22.5	21.5	20.0	19.5
26	17.5	16.5	18.0	17.0	20.0	18.5	22.5	22.0	22.5	21.5	20.0	19.5
27	19.0	17.0	18.0	17.5	19.5	18.5	22.5	21.5	23.0	21.5	20.0	19.5
28	19.0	17.5	18.5	18.0	20.0	18.5	22.5	21.5	23.0	21.5	20.0	19.5
29	18.5	17.5	18.5	18.0	20.0	19.0	22.5	21.5	23.0	21.5	20.0	19.5
30	18.5	17.5	19.0	18.0	20.5	19.0	22.5	21.0	23.0	22.0	20.0	18.5
31	---	---	19.0	18.0	---	---	22.5	21.0	23.0	22.0	---	---
MONTH	19.0	14.5	---	---	---	---	---	---	23.0	20.5	23.5	18.5

374938122251801 SAN FRANCISCO BAY AT NORTHEAST SHORE ALCATRAZ ISLAND, CA

LOCATION.—Lat 37°49'38", long 122°25'18", unsurveyed, sec.20 T.1 S., R.5 W., San Francisco County, Hydrologic Unit 18050002, at end of "finger" pier adjacent to ferry terminal.

PERIOD OF DAILY RECORD.—November 2003 to September 2004.

SPECIFIC CONDUCTANCE: November 2003 to September 2004.

WATER TEMPERATURE: November 2003 to September 2004.

INSTRUMENTATION.—Water-quality monitor since November 2003.

REMARKS.—Interruptions in record were due to malfunction of the sensing and (or) recording instrument and biological interference within the conductivity cell. The probe is set at 6 ft below the water surface at Mean Lower Low Water (MLLW). MLLW is about 16 ft. Daily maximums and minimums sometimes differ from tidal cycle (24.8 hours) maximums and minimums. Specific conductivity records are rated excellent except for the following periods of calibration drift and fouling: Nov. 6 to Jan. 14, Mar. 25 to May 19, which are rated good; May 31 to June 8 which are rated fair; and June 16–30, July 3–22, July 26 to Aug. 12, Sept. 2–22, which are rated good. Temperature records are rated excellent.

EXTREMES FOR PERIOD OF DAILY RECORD.—

SPECIFIC CONDUCTANCE: Maximum recorded, 51,000 microsiemens, June 14, 2004; minimum recorded, 11,700 microsiemens, Feb. 29, 2004.

WATER TEMPERATURE: Maximum recorded, 20.0°C, Sept. 6, 7, 2004; minimum recorded, 9.5°C, Jan. 4, 2004.

EXTREMES FOR CURRENT YEAR.—

SPECIFIC CONDUCTANCE: Maximum recorded, 51,000 microsiemens, June 14; minimum recorded, 11,700 microsiemens, Feb. 29.

WATER TEMPERATURE: Maximum recorded, 20.0°C, Sept. 6, 7; minimum recorded, 9.5°C, Jan. 4.

SPECIFIC CONDUCTANCE, WATER, UNFILTERED, MICROSIEMENS PER CENTIMETER AT 25 DEGREES CELSIUS
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	---	---	---	---	47100	44500	45100	30900	45000	38800	42000	16300
2	---	---	---	---	46900	43900	42900	31200	47200	39400	39000	17700
3	---	---	---	---	47100	42700	42300	31300	46300	38600	40500	19700
4	---	---	---	---	47200	43900	43500	30900	46300	38500	36400	20500
5	---	---	---	---	47000	44600	43300	31100	46000	37700	40400	22900
6	---	---	---	---	47100	44600	43800	32400	45700	38500	40400	23700
7	---	---	---	---	47100	44000	44100	31700	45400	38100	41900	23000
8	---	---	---	---	47100	43500	43500	32400	45600	38100	42500	25800
9	---	---	---	---	47000	44700	42900	32600	44600	37500	43200	25100
10	---	---	---	---	47400	43700	42900	32100	44500	35800	43700	24500
11	---	---	---	---	47000	43300	42300	32100	45100	35800	45100	26700
12	---	---	---	---	46700	42900	---	---	45400	35000	43700	26700
13	---	---	---	---	46500	43100	---	---	45300	35500	43700	25200
14	---	---	---	---	46300	41700	---	---	45300	37700	44800	26200
15	---	---	47200	44900	45600	39900	43700	31300	45600	38300	43300	24900
16	---	---	47100	44600	45500	38600	43700	28800	45600	39700	44500	29100
17	---	---	46800	44200	45600	39300	44200	34700	46900	39700	45100	31800
18	---	---	46700	44000	45700	38300	45600	36000	47100	37000	45000	32900
19	---	---	47000	43800	46000	39600	45400	36400	46200	37000	44900	35200
20	---	---	47000	44000	45700	40200	45300	36800	46300	36500	45000	35300
21	---	---	---	---	45700	39900	45700	36900	45400	35400	44500	35600
22	---	---	---	---	45800	40100	45500	37400	44100	33200	44300	35300
23	---	---	---	---	45600	40300	45700	37900	43700	29000	45000	35300
24	---	---	---	---	46100	40100	45300	38500	42100	22500	44700	35400
25	---	---	---	---	45800	40000	44900	38800	38800	28900	45600	34400
26	---	---	---	---	45600	38700	45000	35600	43300	15000	42300	32800
27	---	---	---	---	45200	39000	45100	37000	35800	11800	41900	31400
28	---	---	---	---	44400	35200	43800	33400	35500	13700	43400	29100
29	---	---	---	---	44900	35200	44500	33400	41200	11700	43800	27400
30	---	---	47100	45000	45100	31300	45800	34700	---	---	44400	31400
31	---	---	---	---	44100	32600	44400	36500	---	---	44300	34200
MONTH	---	---	---	---	47400	31300	---	---	47200	11700	45600	16300

374938122251801 SAN FRANCISCO BAY AT NORTHEAST SHORE ALCATRAZ ISLAND, CA—Continued

SPECIFIC CONDUCTANCE, WATER, UNFILTERED, MICROSIEMENS PER CENTIMETER AT 25 DEGREES CELSIUS

WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	45400	36300	46800	40700	47800	42900	50100	47000	48500	46000	45400	43100
2	45800	38100	46700	41900	48200	43400	50100	46900	48200	45700	46100	44000
3	46500	38700	47100	42100	48600	43200	49900	46800	47700	45500	46600	44400
4	46100	39900	47000	41600	48900	44300	49900	46900	47400	45600	46800	44700
5	45400	40300	47300	42000	49000	45000	49900	46700	47300	45100	47500	44700
6	45600	39900	47500	42300	49400	45900	49700	47000	47400	44700	47900	44400
7	46100	39600	47600	42500	50100	46000	49500	47300	47600	45200	48200	45200
8	46900	39400	47600	42800	50300	47200	49300	47400	47700	45000	48400	45500
9	46900	39200	47300	43000	50000	46700	49300	46500	47400	44300	---	---
10	46900	39400	46600	42400	50400	46400	49300	47400	47200	44500	48600	46500
11	46900	38400	46600	42700	50400	47200	49300	46500	47200	44500	48700	46400
12	46400	38100	47100	41600	50200	46900	49200	46600	---	---	48600	46800
13	45800	39200	46900	41400	50300	46600	49100	46900	---	---	48600	46800
14	46500	39200	46700	41300	51000	46400	49000	46500	---	---	48700	46800
15	46000	38700	46500	41900	50800	47100	49100	45900	---	---	48600	46500
16	45900	38500	46500	41900	50600	47200	49100	46400	---	---	48500	46900
17	45900	38800	46300	42500	50500	46900	49100	46800	---	---	48600	46800
18	45900	39100	46200	41800	49600	46200	49100	46700	---	---	48800	47000
19	45800	38400	47000	42100	50000	46600	49100	47000	47500	45600	48700	47000
20	45900	39600	47100	42300	50100	47300	49100	45700	47300	45400	48500	46800
21	46100	38300	47200	43100	49900	47100	49100	46800	47400	45700	48500	46100
22	45700	39200	47700	43600	49800	46500	49200	45600	47600	45200	48800	46500
23	46300	34900	47900	43700	50600	46900	49100	46000	47500	44900	48700	46700
24	45600	36900	47800	43600	50300	46400	49100	44800	47300	44300	48700	46500
25	46200	35400	47600	42000	50500	45800	49100	46300	46800	43300	48500	46700
26	46100	35600	48000	42200	50300	45600	48900	45900	46400	42500	48600	46700
27	46600	33200	48000	42200	50900	47300	48900	46500	46400	42400	48500	46700
28	46700	37500	47500	40900	50900	47300	49000	46500	46400	42500	48500	46900
29	46700	37100	47800	41300	50700	47100	48800	46400	46100	40700	48500	47100
30	47000	39700	47400	42400	50300	46500	48700	46300	45500	41700	48500	47100
31	---	---	47500	43200	---	---	48700	46200	46100	42700	---	---
MONTH	47000	33200	48000	40700	51000	42900	50100	44800	---	---	---	---

374938122251801 SAN FRANCISCO BAY AT NORTHEAST SHORE ALCATRAZ ISLAND, CA—Continued

TEMPERATURE, WATER, DEGREES CELSIUS, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	---	---	---	---	12.5	12.0	12.0	10.5	11.5	11.5	12.5	11.5
2	---	---	---	---	12.5	12.0	11.5	10.5	11.5	11.5	12.0	11.5
3	---	---	---	---	12.5	12.0	11.5	10.0	11.5	11.5	12.5	11.5
4	---	---	---	---	12.5	12.0	11.5	9.5	12.0	11.5	12.5	11.5
5	---	---	---	---	12.5	12.5	11.5	10.0	12.0	11.5	12.5	12.0
6	---	---	---	---	12.5	12.5	11.5	10.0	12.0	11.5	13.0	12.0
7	---	---	---	---	12.5	12.5	11.5	10.5	12.0	11.5	13.0	12.0
8	---	---	---	---	12.5	12.5	11.5	10.5	12.0	11.5	13.0	12.0
9	---	---	---	---	12.5	12.5	11.5	10.5	12.0	11.5	13.0	12.0
10	---	---	---	---	12.5	12.5	11.5	11.0	12.0	11.5	13.5	12.0
11	---	---	---	---	12.5	12.0	11.5	11.0	12.0	11.5	13.5	11.5
12	---	---	---	---	12.5	12.0	---	---	12.0	11.5	13.5	12.0
13	---	---	---	---	12.5	12.0	---	---	11.5	11.5	13.5	11.5
14	---	---	---	---	12.5	12.0	---	---	11.5	11.5	14.0	11.5
15	---	---	13.5	13.0	12.5	11.5	11.5	10.5	12.0	11.5	14.5	12.0
16	---	---	14.0	13.0	12.0	11.5	11.5	10.5	11.5	11.5	14.5	12.0
17	---	---	14.0	13.5	12.0	11.5	12.0	11.0	12.0	11.5	15.5	11.5
18	---	---	14.0	13.5	12.0	11.5	12.0	11.0	12.0	12.0	15.0	12.0
19	---	---	14.0	13.5	12.0	11.5	12.0	11.5	12.0	11.5	15.0	12.0
20	---	---	14.0	13.5	12.0	11.5	12.0	11.5	12.5	12.0	15.0	12.0
21	---	---	---	---	12.0	11.5	12.0	11.5	12.5	12.0	14.5	12.0
22	---	---	---	---	12.0	11.5	12.0	11.5	12.0	12.0	14.5	12.5
23	---	---	---	---	12.0	12.0	12.0	11.5	12.5	12.0	14.5	12.0
24	---	---	---	---	12.5	12.0	12.0	11.5	12.5	12.0	14.5	12.0
25	---	---	---	---	12.5	11.5	12.0	11.5	12.5	12.0	14.5	12.0
26	---	---	---	---	12.0	11.5	12.0	11.0	12.0	12.0	14.0	12.5
27	---	---	---	---	12.0	11.5	12.0	11.5	12.5	11.5	14.5	13.0
28	---	---	---	---	12.0	11.0	12.0	11.0	12.5	11.5	15.0	12.5
29	---	---	---	---	12.0	11.0	12.0	11.0	12.0	11.5	15.5	12.5
30	---	---	12.5	12.5	12.0	10.5	12.0	11.0	---	---	14.5	12.0
31	---	---	---	---	12.0	10.5	12.0	11.0	---	---	15.0	12.0
MONTH	---	---	---	---	12.5	10.5	---	---	12.5	11.5	15.5	11.5
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	15.0	12.0	16.0	12.0	16.0	12.5	17.5	14.0	18.5	16.0	18.5	17.0
2	14.0	11.5	15.0	12.5	16.5	12.5	17.5	14.0	18.0	15.5	18.5	17.0
3	14.5	11.5	15.0	12.0	16.5	12.5	18.0	14.5	18.0	16.0	19.0	17.0
4	13.5	11.5	15.5	12.0	16.0	12.5	17.5	14.5	17.5	16.0	19.0	17.0
5	13.5	12.0	15.0	12.0	16.0	12.5	17.5	14.5	17.5	16.0	19.5	17.0
6	13.5	12.0	15.5	12.0	16.0	13.0	17.5	14.5	18.0	16.0	20.0	16.5
7	13.5	11.5	15.5	12.0	17.0	13.0	17.0	15.0	18.0	16.0	20.0	16.5
8	14.0	11.5	15.5	12.5	16.5	12.5	17.5	15.0	18.0	15.5	19.5	16.0
9	14.0	11.0	15.5	12.5	16.0	13.0	17.0	15.5	18.0	15.5	---	---
10	14.0	11.0	16.0	12.5	16.0	12.5	17.0	15.5	18.0	15.5	19.5	16.5
11	14.0	11.0	15.5	13.0	15.5	13.0	17.0	15.5	18.0	15.0	19.5	16.5
12	14.0	11.5	16.0	12.5	16.0	13.0	17.0	15.5	---	---	19.0	16.5
13	14.0	12.0	16.0	12.5	16.0	13.0	17.5	15.5	---	---	19.5	16.5
14	14.0	11.5	16.0	12.5	16.5	12.0	18.0	15.5	---	---	19.5	16.0
15	14.0	12.0	15.5	12.5	16.0	12.0	18.0	15.5	---	---	19.0	16.0
16	14.0	12.0	15.0	12.0	15.5	12.5	18.5	15.5	---	---	18.5	16.0
17	14.0	12.0	15.0	12.0	16.0	12.5	18.5	15.5	---	---	19.0	15.5
18	13.5	12.0	15.0	12.0	16.0	12.5	19.0	15.5	---	---	19.0	15.0
19	13.5	12.0	15.5	12.0	16.0	13.0	19.0	15.5	18.0	15.5	19.0	15.0
20	14.0	12.0	15.5	12.0	16.0	13.5	19.0	15.5	18.0	16.0	18.5	15.0
21	14.0	12.5	15.0	12.5	16.5	13.5	18.5	15.5	18.0	16.0	18.5	15.0
22	14.0	12.5	15.0	12.5	16.5	14.0	18.5	15.5	18.0	16.0	18.0	14.5
23	14.5	12.5	15.0	12.5	16.5	14.0	18.0	15.5	18.5	16.0	18.0	14.5
24	15.0	12.5	15.5	13.0	16.5	14.0	18.5	15.5	19.0	16.0	18.0	14.5
25	15.5	12.5	15.5	13.0	17.0	14.5	18.0	15.5	19.5	16.5	18.0	14.5
26	16.0	13.0	16.5	13.0	17.5	14.5	18.0	15.5	19.5	16.5	18.0	14.5
27	16.5	12.0	16.0	13.5	17.0	13.5	18.5	15.5	19.0	16.0	17.5	14.5
28	16.5	12.0	16.5	14.0	17.0	13.5	19.0	15.5	19.0	16.0	17.0	14.5
29	16.0	12.0	16.5	13.5	17.0	14.0	19.0	15.5	19.0	16.0	17.0	14.5
30	15.5	12.0	16.0	13.0	17.0	14.0	19.0	15.5	19.0	16.5	17.0	14.5
31	---	---	16.0	12.5	---	---	18.5	15.5	18.5	16.5	---	---
MONTH	16.5	11.0	16.5	12.0	17.5	12.0	19.0	14.0	---	---	---	---

11164500 SAN FRANCISQUITO CREEK AT STANFORD UNIVERSITY, CA

LOCATION.—Lat 37°25'24", long 122°11'18", in San Francisquito Grant, Santa Clara County, Hydrologic Unit 18050003, at golf course on right bank, 1.1 mi downstream from Los Trancos Creek, 1.1 mi west of Stanford University Post Office, and 5 mi downstream from Searsville Lake.

DRAINAGE AREA.—37.4 mi².

PERIOD OF RECORD.—October 1930 to September 1941, October 1950 to current year. Monthly discharge only for some periods, published in WSP 1315-B.

GAGE.—Water-stage recorder and concrete control. Datum of gage is 115.75 ft above NGVD of 1929. Recording rain gage (station 372724122101201) at 345 Middlefield Road in Menlo Park, 2.5 mi northeast of gage (discontinued Sept. 30, 1995).

REMARKS.—Records fair. Flow slightly regulated by Searsville Lake, capacity, 952 acre-ft. Diversions of about 800 acre-ft each year upstream from station to Los Trancos and Lagunita Canals for irrigation on Stanford University Campus downstream from station. Low flow affected by wastewater from Stanford Linear Accelerator.

EXTREMES FOR PERIOD OF RECORD.—Maximum discharge, 7,200 ft³/s, Feb. 3, 1998, maximum gage height, 13.60 ft, Dec. 22, 1955; no flow at times.

EXTREMES FOR CURRENT YEAR.—Peak discharges greater than base discharge of 700 ft³/s, or maximum:

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Dec. 29	1830	982	4.32	Feb. 18	0600	1,240	4.72
Jan. 1	1315	1,980	5.88	Feb. 25	1345	1,610	5.28

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.39	0.48	1.5	605	3.4	61	3.0	2.2	1.2	0.48	0.50	0.28
2	0.39	0.39	2.3	146	92	51	2.9	2.2	1.2	0.45	0.32	0.28
3	0.39	0.42	1.4	52	90	39	2.9	2.1	1.0	0.36	0.28	0.25
4	0.46	0.39	0.94	26	49	34	2.9	2.1	0.92	0.33	0.25	0.25
5	0.50	0.39	1.0	16	30	28	2.9	2.1	0.89	0.31	0.18	0.30
6	0.39	0.39	3.4	13	21	25	3.0	2.0	0.84	0.34	0.14	0.35
7	0.44	1.4	9.9	11	16	23	3.0	2.1	0.78	0.40	0.11	0.34
8	0.40	4.5	2.0	8.0	12	22	2.9	1.9	0.75	0.34	0.11	0.29
9	0.38	8.0	2.0	6.0	9.2	18	3.0	1.7	0.79	0.31	0.11	0.23
10	0.31	2.2	14	7.2	7.9	16	3.0	1.7	0.82	0.31	0.14	0.25
11	0.28	1.1	10	6.1	6.1	16	3.0	1.8	0.81	0.23	0.19	0.28
12	0.28	0.83	2.6	4.6	6.4	16	3.0	1.8	0.79	0.21	0.17	0.32
13	0.28	0.70	1.7	4.2	6.5	15	2.9	1.7	0.77	0.19	0.15	0.39
14	0.28	0.63	21	4.2	5.8	12	2.9	1.6	0.70	0.19	0.14	0.39
15	0.28	1.3	4.5	4.4	5.7	10	2.9	1.5	0.69	0.19	0.11	0.53
16	0.28	0.99	2.4	3.1	18	10	2.8	1.6	0.66	0.19	0.12	0.34
17	0.30	0.81	1.9	2.3	126	9.7	3.3	1.6	0.66	0.16	0.13	0.27
18	0.28	0.66	1.6	2.3	552	9.6	2.9	1.6	0.66	0.13	0.13	0.28
19	0.31	0.62	2.6	2.3	90	9.6	3.0	1.5	0.53	0.11	0.10	0.39
20	0.30	0.51	4.9	3.5	54	9.4	3.6	1.7	0.63	0.11	0.15	0.46
21	0.30	0.51	3.9	3.4	40	8.9	4.3	1.6	0.71	0.12	0.15	0.40
22	0.30	0.51	2.2	3.2	39	8.8	2.8	1.7	0.66	0.12	0.12	0.35
23	0.33	0.51	2.0	1.9	28	7.6	2.6	1.7	0.59	0.13	0.12	0.28
24	0.28	0.51	16	6.0	29	5.9	2.6	1.7	0.51	0.13	0.10	0.22
25	0.28	0.51	20	4.9	608	16	2.5	1.6	0.46	0.11	0.11	0.20
26	0.29	0.51	7.5	2.7	401	19	2.4	1.5	0.42	0.11	0.10	0.23
27	0.28	0.51	3.2	2.6	169	7.5	2.5	1.5	0.34	0.11	0.08	0.22
28	0.28	0.51	2.3	4.7	97	6.1	2.2	1.5	0.40	0.21	0.08	0.19
29	0.27	0.51	284	3.9	70	5.4	2.3	1.4	0.48	0.21	0.08	0.19
30	0.28	0.69	199	3.5	---	5.0	2.2	1.4	0.40	0.17	0.11	0.23
31	1.2	---	31	3.6	---	3.5	---	1.3	---	0.56	0.26	---
TOTAL	11.01	31.99	662.74	967.6	2682.0	528.0	86.2	53.4	21.06	7.32	4.84	8.98
MEAN	0.36	1.07	21.4	31.2	92.5	17.0	2.87	1.72	0.70	0.24	0.16	0.30
MAX	1.2	8.0	284	605	608	61	4.3	2.2	1.2	0.56	0.50	0.53
MIN	0.27	0.39	0.94	1.9	3.4	3.5	2.2	1.3	0.34	0.11	0.08	0.19
AC-FT	22	63	1310	1920	5320	1050	171	106	42	15	9.6	18

SAN FRANCISQUITO CREEK BASIN

11164500 SAN FRANCISQUITO CREEK AT STANFORD UNIVERSITY, CA—Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1931 - 2004, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	0.93	5.77	25.7	61.2	79.2	51.6	24.6	3.87	1.17	0.48	0.27	0.31
MAX	28.2	92.0	220	301	549	315	232	39.5	11.4	4.20	1.61	2.11
(WY)	1963	1951	1956	1997	1998	1983	1958	1983	1998	1998	1983	1973
MIN	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
(WY)	1931	1931	1931	1931	1931	1931	1931	1931	1931	1931	1931	1931

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1931 - 2004	
ANNUAL TOTAL	3216.37		5065.14			
ANNUAL MEAN	8.81		13.8		21.0	
HIGHEST ANNUAL MEAN					83.4 1983	
LOWEST ANNUAL MEAN					0.00 1931	
HIGHEST DAILY MEAN	284	Dec 29	608	Feb 25	2650	Dec 23 1955
LOWEST DAILY MEAN	0.21	Sep 18	0.08	Aug 27	0.00	Oct 1 1930
ANNUAL SEVEN-DAY MINIMUM	0.26	Sep 18	0.09	Aug 24	0.00	Oct 1 1930
MAXIMUM PEAK FLOW			1980	Jan 1	7200	Feb 3 1998
MAXIMUM PEAK STAGE			5.88	Jan 1	13.60	Dec 22 1955
ANNUAL RUNOFF (AC-FT)	6380		10050		15190	
10 PERCENT EXCEEDS	18		18		35	
50 PERCENT EXCEEDS	2.8		1.4		0.50	
90 PERCENT EXCEEDS	0.33		0.18		0.00	

11166000 MATADERO CREEK AT PALO ALTO, CA

LOCATION.—Lat 37°25'18", long 122°08'04", in Rincon de San Francisquito Grant, [Santa Clara County](#), Hydrologic Unit 18050003, on right bank, on Ash Street, 150 ft upstream from Lambert Avenue Bridge, and 2.1 mi southeast of Palo Alto Post Office.

DRAINAGE AREA.—7.26 mi².

PERIOD OF RECORD.—July 1952 to April 1991, June 1992 to current year.

REVISED RECORDS.—WDR CA-80-2: 1971, 1973–74, 1978, 1971–75(P). WDR CA-82-2: 1973–74(P), 1978(P).

GAGE.—Water-stage recorder. Datum of gage is 17.01 ft above NGVD of 1929. Prior to Sept. 25, 1958, at site 150 ft downstream at different datum. Sept. 25, 1958, to Apr. 9, 1991, at same site, different datum.

REMARKS.—Records good. No regulation or diversion upstream from station.

EXTREMES FOR PERIOD OF RECORD.—Maximum discharge, 2,560 ft³/s, Feb. 2, 1998, gage height, 10.00 ft, from rating curve extended above 300 ft³/s, on basis of step-backwater computation; no flow at times.

EXTREMES FOR CURRENT YEAR.—Peak discharges greater than base discharge of 200 ft³/s, or maximum:

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Dec. 29	1315	313	4.72	Feb. 25	1045	345	4.83
Jan. 1	1130	668	5.84				

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.29	0.37	1.8	165	0.95	4.3	1.2	0.64	0.41	0.42	0.46	0.41
2	0.27	0.36	0.90	21	38	4.2	1.2	0.69	0.42	0.41	0.45	0.45
3	0.36	0.60	0.51	7.2	19	2.6	1.1	0.63	0.46	0.46	0.42	0.37
4	0.33	0.19	0.73	2.9	5.3	2.4	1.0	0.54	0.43	0.39	0.52	0.36
5	0.34	0.18	1.0	2.3	2.6	2.1	1.0	0.56	0.43	0.42	0.48	0.32
6	0.31	0.79	4.3	1.8	2.0	2.0	1.6	0.65	0.41	0.35	0.42	0.30
7	0.26	3.4	2.2	1.6	1.7	1.8	1.5	0.57	0.43	0.33	0.40	0.30
8	0.30	12	0.57	1.9	1.5	1.7	1.1	0.59	0.38	0.41	0.43	0.38
9	0.29	6.8	4.4	1.7	1.4	1.7	1.1	0.59	0.44	0.41	0.38	0.41
10	0.29	0.90	17	1.5	1.3	1.6	0.94	0.50	0.45	0.40	0.29	0.39
11	0.29	0.44	4.9	1.3	1.2	1.5	0.96	0.38	0.46	0.28	0.37	0.43
12	0.30	0.35	0.94	1.2	1.2	1.5	1.7	0.51	0.51	0.29	0.40	0.35
13	1.1	0.35	0.76	1.2	1.1	1.5	0.77	0.58	0.50	0.24	0.44	0.33
14	0.31	0.44	13	1.2	1.0	1.4	0.90	0.55	0.44	0.24	0.39	0.39
15	0.30	1.9	1.0	1.2	1.0	1.4	0.81	0.53	0.44	0.28	0.33	0.40
16	0.31	0.61	0.81	1.2	4.4	1.4	0.77	0.55	0.49	0.32	0.27	0.41
17	0.36	0.41	0.83	1.1	10	1.4	0.97	0.51	0.42	0.34	0.32	0.49
18	0.39	0.41	0.96	1.0	19	1.4	0.95	0.54	0.35	0.30	0.34	0.44
19	0.37	0.43	5.1	1.0	3.4	1.4	0.95	0.57	0.43	0.33	0.36	0.76
20	0.37	0.43	5.6	1.2	2.4	1.5	0.82	0.54	0.42	0.27	0.47	0.36
21	0.33	0.48	4.2	0.98	2.4	1.6	1.0	0.54	0.43	0.37	0.37	0.37
22	0.39	0.44	0.87	0.95	3.9	1.7	0.89	0.70	0.38	0.40	0.30	0.39
23	0.30	0.40	0.91	0.96	1.8	1.6	1.0	0.67	0.42	0.36	0.28	0.41
24	0.30	0.42	6.2	8.0	3.3	1.8	0.74	0.68	0.41	0.39	0.34	0.32
25	0.33	0.46	13	1.3	94	8.3	0.70	0.61	0.43	0.36	0.43	0.29
26	0.32	0.44	1.5	1.2	68	2.2	0.56	0.54	0.41	0.41	0.39	0.20
27	0.35	0.37	0.97	1.0	22	1.4	0.49	0.44	0.41	0.30	0.43	0.20
28	0.32	0.45	0.84	1.0	10	1.3	0.47	0.64	0.44	0.46	0.42	0.24
29	0.30	0.47	104	0.99	5.4	1.2	0.50	0.54	0.39	0.44	0.42	0.31
30	0.25	1.7	20	1.2	---	1.2	0.60	0.45	0.40	0.43	0.39	0.35
31	2.4	---	3.2	1.0	---	1.1	---	0.46	---	0.45	0.35	---
TOTAL	12.73	36.99	223.00	237.08	329.25	62.2	28.29	17.49	12.84	11.26	12.06	11.13
MEAN	0.41	1.23	7.19	7.65	11.4	2.01	0.94	0.56	0.43	0.36	0.39	0.37
MAX	2.4	12	104	165	94	8.3	1.7	0.70	0.51	0.46	0.52	0.76
MIN	0.25	0.18	0.51	0.95	0.95	1.1	0.47	0.38	0.35	0.24	0.27	0.20
AC-FT	25	73	442	470	653	123	56	35	25	22	24	22

MATADERO CREEK BASIN

11166000 MATADERO CREEK AT PALO ALTO, CA—Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1953 - 2004, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	0.48	1.72	4.15	8.40	9.27	5.36	2.21	0.67	0.33	0.21	0.18	0.18
MAX	3.64	9.83	29.1	32.3	77.7	37.8	25.2	4.54	2.86	1.42	0.70	0.66
(WY)	2001	1973	2003	1983	1998	1983	1958	1998	2000	2000	1983	1983
MIN	0.00	0.00	0.00	0.02	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00
(WY)	1953	1953	1954	1954	1964	1959	1954	1953	1953	1953	1953	1953

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1953 - 2004	
ANNUAL TOTAL	817.68		994.32			
ANNUAL MEAN	2.24		2.72		2.76	
HIGHEST ANNUAL MEAN					10.9	
LOWEST ANNUAL MEAN					0.06	
HIGHEST DAILY MEAN	104	Dec 29	165	Jan 1	437	Feb 3 1998
LOWEST DAILY MEAN	0.14	Aug 14	0.18	Nov 5	0.00	Oct 1 1952
ANNUAL SEVEN-DAY MINIMUM	0.23	Aug 12	0.27	Sep 24	0.00	Oct 1 1952
MAXIMUM PEAK FLOW			668	Jan 1	2560	Feb 2 1998
MAXIMUM PEAK STAGE			5.84	Jan 1	10.00	Feb 2 1998
ANNUAL RUNOFF (AC-FT)	1620		1970		2000	
10 PERCENT EXCEEDS	4.0		3.2		3.6	
50 PERCENT EXCEEDS	0.59		0.53		0.20	
90 PERCENT EXCEEDS	0.30		0.31		0.00	

11169025 GUADALUPE RIVER ABOVE HIGHWAY 101, AT SAN JOSE, CA

LOCATION.—Lat 37°22'26", long 121°55'55", Santa Clara County, Hydrologic Unit 18050003, on left bank, approximately 200 ft upstream from Highway 101, and 50 ft downstream of access bridge to San Jose Airport rental car area.

DRAINAGE AREA.—160 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.—May 2002 to current year.

GAGE.—Water-stage recorder and crest-stage gage. Elevation of gage is 16.29 ft above NAVD of 1988, from topographic map.

REMARKS.—Records fair. Flow regulated by Lexington Reservoir 12 mi upstream and by Calero, Almaden, and Guadalupe Reservoirs, and Lake Elsman (combined usable capacity, about 42,000 acre-ft), with water released during summer for percolation in spreading basins on tributaries. Diversions into the above impoundments come from San Luis Reservoir (part of the San Felipe Project), from the South Bay Aqueduct, and from the Hetch Hetchy Aqueduct. There are upstream diversions by the San Jose Water Works for urban use. In addition, an off-stream holding basin located approximately 150 ft downstream collects runoff from part of San Jose Airport and periodically releases water into the stream causing the gage to be in backwater for a few minutes each day at low flows.

EXTREMES FOR PERIOD OF RECORD.—Maximum discharge, 6,070 ft³/s, Dec. 16, 2002, gage height, 14.64 ft, from rating curve extended above 1,770 ft³/s on basis of slope-conveyance computation; minimum daily, 17 ft³/s, several days in October and November 2002.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	27	25	39	1670	29	88	37	32	31	22	27	24
2	26	24	57	336	330	91	39	32	28	24	28	25
3	28	32	38	116	276	70	36	31	27	25	28	25
4	28	24	38	66	59	67	35	33	27	23	27	25
5	28	22	38	54	33	72	37	32	27	22	27	25
6	29	21	33	46	28	59	36	31	26	22	26	28
7	30	86	53	40	27	61	39	35	27	22	26	30
8	28	199	27	36	26	60	36	35	28	23	26	31
9	31	1170	25	27	25	57	37	33	27	27	25	31
10	30	52	271	31	24	55	38	31	26	27	30	26
11	29	35	144	28	25	53	37	30	31	25	25	23
12	29	33	31	25	23	56	38	31	30	26	29	23
13	29	30	28	29	24	48	39	35	27	26	27	23
14	29	29	236	35	24	47	37	35	26	28	24	20
15	29	38	63	29	22	47	37	45	28	28	26	20
16	29	30	34	33	29	44	36	53	31	30	25	21
17	29	27	32	37	51	45	47	40	30	31	25	22
18	29	27	30	34	341	44	61	40	30	32	25	21
19	29	27	56	28	56	48	82	37	31	33	22	38
20	26	26	71	30	50	46	36	35	30	33	24	e57
21	25	24	472	34	48	44	36	36	32	32	24	e26
22	23	24	38	34	65	44	36	36	e29	31	28	e24
23	23	26	52	34	36	44	34	34	25	29	27	23
24	23	25	72	207	40	44	35	34	24	29	25	25
25	23	25	358	25	1250	115	35	34	27	28	23	25
26	23	26	59	20	851	77	35	32	25	27	23	25
27	23	25	38	28	290	39	35	31	26	26	24	25
28	23	24	34	35	132	37	34	40	24	26	25	24
29	24	24	1020	35	96	36	34	31	22	27	28	23
30	22	27	348	33	---	36	33	31	21	26	26	24
31	22	---	76	30	---	35	---	32	---	27	25	---
TOTAL	826	2207	3911	3245	4310	1709	1167	1077	823	837	800	782
MEAN	26.6	73.6	126	105	149	55.1	38.9	34.7	27.4	27.0	25.8	26.1
MAX	31	1170	1020	1670	1250	115	82	53	32	33	30	57
MIN	22	21	25	20	22	35	33	30	21	22	22	20
AC-FT	1640	4380	7760	6440	8550	3390	2310	2140	1630	1660	1590	1550

e Estimated.

GUADALUPE RIVER BASIN

11169025 GUADALUPE RIVER ABOVE HIGHWAY 101, AT SAN JOSE, CA—Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2002 - 2004, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	22.9	73.5	213	88.5	103	54.2	63.8	40.3	27.2	24.2	23.6	23.9
MAX	26.6	73.6	301	105	149	55.1	88.8	45.8	31.3	27.0	25.8	26.1
(WY)	2004	2004	2003	2004	2004	2004	2003	2003	2003	2004	2004	2004
MIN	19.2	73.4	126	72.3	56.6	53.3	38.9	34.7	22.8	20.8	21.5	20.9
(WY)	2003	2003	2004	2003	2003	2003	2004	2004	2002	2002	2002	2002

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 2002 - 2004	
ANNUAL TOTAL	19685		21694			
ANNUAL MEAN	53.9		59.3		63.7	
HIGHEST ANNUAL MEAN					68.1 2003	
LOWEST ANNUAL MEAN					59.3 2004	
HIGHEST DAILY MEAN	1170	Nov 9	1670	Jan 1	1890	Dec 16 2002
LOWEST DAILY MEAN	21	Nov 6	20	Jan 26	17	Oct 11 2002
ANNUAL SEVEN-DAY MINIMUM	23	Oct 25	21	Sep 12	17	Oct 28 2002
MAXIMUM PEAK FLOW			4390	Jan 1	6070	Dec 16 2002
MAXIMUM PEAK STAGE			13.14	Jan 1	14.64	Dec 16 2002
ANNUAL RUNOFF (AC-FT)	39050		43030		46140	
10 PERCENT EXCEEDS	70		62		72	
50 PERCENT EXCEEDS	32		30		30	
90 PERCENT EXCEEDS	23		24		22	

11169025 GUADALUPE RIVER ABOVE HIGHWAY 101, AT SAN JOSE, CA—Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.—November 2002 to current year (storm season only).

WATER TEMPERATURE: November 2002 to current year.

SEDIMENT DATA: November 2002 to current year.

PERIOD OF DAILY RECORD.—

SUSPENDED-SEDIMENT DISCHARGE: November 2002 to current year.

EXTREMES FOR PERIOD OF DAILY RECORD.—

SEDIMENT CONCENTRATION: Maximum daily mean, 436 mg/L, Dec. 16, 2002; minimum daily mean, 3 mg/L, Jan. 23, 2004.

SEDIMENT LOAD: Maximum daily, 3,610 tons, Dec. 16, 2002; minimum daily, 0.30 ton, Jan. 23, 2004.

EXTREMES FOR CURRENT YEAR.—

SEDIMENT CONCENTRATION (storm season only): Maximum daily mean, 375 mg/L, Nov. 9; minimum daily mean, 3 mg/L, Jan. 23.

SEDIMENT LOAD (storm season only): Maximum daily, 2,300 tons, Jan. 1; minimum daily, 0.30 ton, Jan. 23.

TEMPERATURE, WATER, DEGREES CELSIUS, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAILY INSTANTANEOUS VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	20.0	---	---	---	---	---	---	---	---	---	---	---
2	---	---	16.0	10.5	12.0	15.0	---	---	---	---	---	---
3	---	16.0	---	10.0	12.0	---	18.0	---	---	---	---	---
4	20.0	---	---	10.5	---	15.5	---	---	---	---	22.0	---
5	---	16.5	---	---	---	14.0	---	21.5	---	---	---	---
6	---	---	---	12.0	15.0	---	18.0	---	---	---	---	---
7	20.0	15.5	15.5	---	---	---	---	---	21.0	21.0	---	---
8	---	15.5	---	---	---	---	---	---	---	---	---	---
9	---	13.5	---	13.5	15.0	14.0	16.5	---	---	---	---	---
10	18.0	---	12.0	---	---	---	---	---	---	---	---	---
11	17.5	---	---	---	---	---	---	---	---	---	---	---
12	---	---	---	15.0	---	18.5	19.0	---	---	---	---	---
13	---	---	15.5	15.0	14.5	---	---	---	---	---	---	---
14	19.0	---	13.0	---	---	---	19.0	---	---	---	---	---
15	---	14.5	---	14.0	---	20.5	16.0	---	---	---	---	---
16	---	---	---	---	15.5	---	---	---	---	---	---	---
17	---	---	---	---	---	---	---	---	---	---	---	---
18	19.5	17.0	14.0	14.5	---	---	17.5	---	---	---	---	---
19	---	---	---	---	---	17.5	---	---	---	---	---	---
20	---	---	---	---	14.0	---	---	---	---	---	---	---
21	19.5	---	14.0	15.0	---	---	19.0	---	---	---	---	---
22	---	---	---	---	---	19.0	---	---	---	---	---	---
23	---	14.0	---	---	16.0	---	---	---	---	---	---	---
24	---	---	15.0	12.0	---	---	20.5	---	---	---	---	---
25	19.0	---	12.0	12.5	13.5	15.5	---	---	---	---	---	---
26	---	14.0	12.0	---	11.0	---	---	---	---	---	---	---
27	---	---	---	---	13.5	---	22.0	---	---	---	---	---
28	20.0	---	12.0	15.0	13.5	19.0	---	---	---	---	---	20.0
29	---	15.0	12.0	---	---	---	---	---	---	---	---	---
30	---	---	11.5	---	---	---	21.0	---	---	---	---	---
31	16.0	---	13.0	14.5	---	18.5	---	---	---	---	21.5	---

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Time	Instantaneous discharge, cfs (00061)	Temperature, water, deg C (00010)	Suspended sediment concentration, mg/L (80154)	Suspended sediment discharge, tons/d (80155)	Suspnd. sediment, fall dia percent <.002mm (70337)	Suspnd. sediment, fall dia percent <.004mm (70338)
OCT							
10...	1120	29	18.0	27	2.1	--	--
NOV							
03...	1545	34	16.0	158	15	--	--
07...	1050	110	15.5	184	55	--	--
DEC							
10...	1055	268	12.0	136	98	--	--
JAN							
13...	1625	37	15.0	8	.80	--	--
FEB							
02...	1545	996	12.0	242	651	45	56
MAR							
04...	1505	65	15.5	10	1.8	--	--
APR							
14...	1530	39	19.0	24	2.5	--	--

11169025 GUADALUPE RIVER ABOVE HIGHWAY 101, AT SAN JOSE, CA—Continued

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Suspnd. sedi-ment, falldia dst wat percent <.008mm (70339)	Suspnd. sedi-ment, falldia dst wat percent <.016mm (70340)	Suspnd. sedi-ment, falldia dst wat percent <.031mm (70341)	Suspnd. sedi-ment, sieve diametr percent <.063mm (70331)	Suspnd. sedi-ment, sieve diametr percent <.125mm (70332)	Suspnd. sedi-ment, sieve diametr percent <.25mm (70333)	Suspnd. sedi-ment, sieve diametr percent <.5 mm (70334)
OCT 10...	--	--	--	--	--	--	--
NOV 03...	--	--	--	--	--	--	--
07...	--	--	--	90	--	--	--
DEC 10...	--	--	--	97	--	--	--
JAN 13...	--	--	--	87	--	--	--
FEB 02...	67	84	92	95	98	99	100
MAR 04...	--	--	--	95	--	--	--
APR 14...	--	--	--	44	--	--	--

SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY), WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
	OCTOBER			NOVEMBER			DECEMBER		
1	27	34	2.4	25	10	0.67	39	45	10
2	26	34	2.4	24	9	0.59	57	140	24
3	28	33	2.5	32	114	10	38	50	5.2
4	28	33	2.5	24	41	2.7	38	40	4.1
5	28	31	2.4	22	30	1.7	38	38	3.9
6	29	29	2.3	21	28	1.6	33	50	5.8
7	30	27	2.2	86	169	54	53	118	17
8	28	27	2.0	199	147	364	27	78	5.7
9	31	27	2.2	1170	375	1720	25	64	4.2
10	30	27	2.2	52	33	4.8	271	143	156
11	29	28	2.2	35	23	2.2	144	76	43
12	29	26	2.0	33	23	2.1	31	20	1.7
13	29	23	1.9	30	23	1.9	28	9	0.66
14	29	21	1.7	29	26	2.1	236	95	94
15	29	21	1.6	38	29	3.0	63	37	6.6
16	29	21	1.6	30	22	1.7	34	16	1.5
17	29	20	1.6	27	21	1.5	32	10	0.83
18	29	20	1.6	27	21	1.5	30	7	0.60
19	29	20	1.6	27	20	1.4	56	27	8.1
20	26	21	1.4	26	20	1.4	71	18	8.9
21	25	21	1.4	24	20	1.3	472	77	209
22	23	19	1.2	24	20	1.3	38	24	2.5
23	23	18	1.1	26	19	1.3	52	23	3.4
24	23	16	1.0	25	16	1.1	72	31	7.0
25	23	14	0.87	25	15	1.0	358	52	75
26	23	13	0.78	26	14	0.97	59	12	2.1
27	23	11	0.71	25	14	0.96	38	7	0.74
28	23	10	0.65	24	14	0.91	34	6	0.55
29	24	11	0.68	24	15	0.97	1020	163	990
30	22	11	0.66	27	18	1.4	348	120	177
31	22	12	0.70	---	---	---	76	29	6.1
TOTAL	826	---	50.05	2207	---	2190.07	3911	---	1875.18

11169025 GUADALUPE RIVER ABOVE HIGHWAY 101, AT SAN JOSE, CA—Continued

SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY), WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
	JANUARY			FEBRUARY			MARCH		
1	1670	308	2300	29	10	0.78	88	24	5.8
2	336	153	153	330	119	234	91	20	5.0
3	116	58	20	276	64	55	70	17	3.2
4	66	32	5.7	59	32	5.4	67	11	2.0
5	54	24	3.6	33	24	2.2	72	25	4.8
6	46	21	2.6	28	22	1.7	59	24	3.8
7	40	16	1.7	27	20	1.5	61	23	3.7
8	36	13	1.3	26	18	1.3	60	22	3.5
9	27	10	0.74	25	16	1.1	57	21	3.2
10	31	11	0.94	24	16	1.0	55	19	2.9
11	28	9	0.72	25	15	1.0	53	19	2.7
12	25	8	0.57	23	15	0.91	56	18	2.7
13	29	8	0.64	24	14	0.90	48	19	2.5
14	35	7	0.68	24	14	0.90	47	20	2.5
15	29	5	0.38	22	14	0.82	47	21	2.7
16	33	4	0.37	29	23	1.8	44	23	2.7
17	37	5	0.47	51	30	7.9	45	24	3.0
18	34	6	0.55	341	71	98	44	26	3.1
19	28	5	0.41	56	20	3.1	48	27	3.5
20	30	5	0.38	50	12	1.6	46	23	2.9
21	34	4	0.37	48	11	1.4	44	19	2.3
22	34	4	0.34	65	16	3.0	44	15	1.8
23	34	3	0.30	36	12	1.2	44	19	2.2
24	207	62	49	40	16	1.8	44	25	2.9
25	25	11	0.76	1250	231	1230	115	76	52
26	20	7	0.39	851	158	381	77	44	14
27	28	12	1.0	290	71	59	39	25	2.7
28	35	21	1.9	132	42	15	37	22	2.1
29	35	18	1.7	96	31	8.0	36	21	2.1
30	33	15	1.4	---	---	---	36	22	2.1
31	30	13	1.0	---	---	---	35	22	2.1
TOTAL	3245	---	2552.91	4310	---	2121.31	1709	---	152.5
APRIL									
1	37	26	2.6						
2	39	30	3.1						
3	36	34	3.3						
4	35	36	3.4						
5	37	37	3.7						
6	36	38	3.7						
7	39	37	3.9						
8	36	35	3.5						
9	37	34	3.4						
10	38	35	3.5						
11	37	35	3.6						
12	38	36	3.7						
13	39	31	3.2						
14	37	26	2.6						
15	37	29	2.9						
16	36	28	2.8						
17	47	34	4.7						
18	61	34	12						
19	82	46	19						
20	36	24	2.3						
21	36	26	2.5						
22	36	29	2.8						
23	34	32	3.0						
24	35	35	3.4						
25	35	34	3.3						
26	35	32	3.0						
27	35	30	2.9						
28	34	26	2.4						
29	34	21	1.9						
30	33	15	1.3						
31	---	---	---						
TOTAL	1167	---	117.4						
PERIOD	17,375	---	9,059.42						

11169500 SARATOGA CREEK AT SARATOGA, CA

LOCATION.—Lat 37°15'16", long 122°02'18", in Quito Grant, Santa Clara County, Hydrologic Unit 18050003, on right bank, on upstream side of private road bridge, 0.5 mi southwest of Saratoga, and 0.7 mi downstream from diversion dam.

DRAINAGE AREA.—9.22 mi².

PERIOD OF RECORD.—October 1933 to current year. Prior to October 1951, published as "Campbell Creek at Saratoga."

CHEMICAL DATA: Water year 1972 to December 1972.

REVISED RECORDS.—WSP 1445: 1940, 1952(M). WSP 1929: Drainage area.

GAGE.—Water-stage recorder, crest-stage gage, and concrete control. Elevation of gage is 500 ft above NGVD of 1929, from topographic map. Prior to Dec. 6, 1968, at site 40 ft downstream at different datum.

REMARKS.—Records poor. Water is diverted for municipal use by San Jose Water Works at diversion dam upstream from station. Low flows partially regulated by Lake McKenzie 8 mi upstream, usable capacity, 184 acre-ft.

EXTREMES FOR PERIOD OF RECORD.—Maximum discharge, 2,730 ft³/s, Dec. 22, 1955, from rating curve extended above 510 ft³/s, on basis of slope-area measurement of peak flow, site and datum then in use, maximum gage height, 7.80 ft, Feb. 3, 1998; no flow at times.

EXTREMES FOR CURRENT YEAR.—Peak discharges greater than base discharge of 110 ft³/s, or maximum:

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Dec. 21	0045	112	3.49	Feb. 18	0215	154	3.71
Dec. 29	1730	334	4.34	Feb. 25	1130	620	5.03
Jan. 1	1230	218	3.97				

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.1	0.93	4.7	87	0.97	33	1.8	3.1	0.54	0.69	0.83	0.62
2	1.0	0.93	3.1	e47	19	23	2.3	2.8	0.53	0.93	0.84	0.64
3	1.0	1.1	1.9	e28	19	19	2.2	1.6	0.51	1.1	0.83	0.60
4	1.0	1.0	1.6	e19	14	15	1.7	1.5	0.48	0.77	0.80	0.57
5	1.0	1.0	1.6	e15	11	14	1.9	1.5	0.47	0.99	0.78	0.57
6	0.98	0.98	2.3	e13	8.2	13	2.0	1.5	0.56	0.87	0.75	0.55
7	0.92	1.5	4.3	e12	7.0	12	2.1	1.5	0.52	0.91	0.81	0.58
8	0.88	8.2	2.1	e10	5.8	12	1.9	1.5	0.56	0.86	0.72	0.54
9	0.91	13	2.3	e9.7	10	11	1.4	1.4	0.84	0.89	0.76	0.54
10	0.86	2.8	20	e8.6	3.5	8.2	1.7	1.5	0.82	0.88	0.75	0.55
11	0.85	2.0	11	e8.4	1.0	4.3	1.7	1.6	0.66	0.80	0.68	0.54
12	0.82	1.8	5.8	e5.1	0.83	3.7	1.6	1.5	0.69	0.71	0.70	0.55
13	0.78	1.6	4.9	e6.1	0.43	3.2	1.4	1.1	0.54	0.71	0.70	0.57
14	0.70	1.6	20	4.8	0.24	2.9	1.3	0.98	0.54	0.68	0.71	0.53
15	0.71	1.9	e7.0	3.6	0.09	3.0	0.97	0.95	0.60	0.60	0.71	0.49
16	0.76	1.8	e4.8	2.0	9.2	3.9	1.4	0.89	0.70	0.70	0.67	0.57
17	0.78	1.7	e3.9	1.4	25	2.0	2.3	1.1	0.67	0.97	0.66	0.51
18	0.76	1.8	e3.3	1.3	97	1.9	2.2	1.2	0.70	1.0	0.66	0.54
19	0.78	1.8	e4.5	1.7	42	1.6	1.8	1.1	0.68	0.74	0.66	0.59
20	0.75	1.9	5.1	1.9	e24	1.4	1.2	0.84	0.68	1.0	0.66	0.60
21	0.70	1.8	40	2.0	e18	2.1	1.0	1.3	0.79	0.87	0.66	0.59
22	0.73	1.9	e13	e1.8	e15	1.6	1.00	0.72	0.68	0.81	0.67	0.56
23	0.71	1.9	9.9	e2.1	e12	1.7	1.0	0.69	0.96	0.77	0.67	0.58
24	0.71	1.9	54	2.8	e15	1.5	0.94	1.4	1.2	0.98	0.68	0.54
25	0.68	1.9	35	1.6	188	7.8	2.2	1.9	0.75	0.96	0.69	0.56
26	0.64	2.0	17	1.5	145	7.3	1.6	0.69	0.73	0.96	0.69	0.56
27	0.65	1.9	8.6	1.5	90	1.9	1.0	0.67	0.59	0.92	0.63	0.57
28	0.60	1.9	5.4	1.3	53	1.7	1.1	0.73	0.62	0.90	0.61	0.59
29	0.65	1.9	88	0.97	42	1.7	1.1	0.67	0.79	0.92	0.58	0.59
30	0.76	2.2	54	0.91	---	1.7	1.7	0.55	0.64	0.90	0.62	0.64
31	0.88	---	25	e0.86	---	1.8	---	0.87	---	0.88	0.62	---
TOTAL	25.05	68.64	464.1	302.94	876.26	218.9	47.51	39.35	20.04	26.67	21.80	17.03
MEAN	0.81	2.29	15.0	9.77	30.2	7.06	1.58	1.27	0.67	0.86	0.70	0.57
MAX	1.1	13	88	87	188	33	2.3	3.1	1.2	1.1	0.84	0.64
MIN	0.60	0.93	1.6	0.86	0.09	1.4	0.94	0.55	0.47	0.60	0.58	0.49
AC-FT	50	136	921	601	1740	434	94	78	40	53	43	34

e Estimated.

11169500 SARATOGA CREEK AT SARATOGA, CA—Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1934 - 2004, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	0.92	2.75	9.50	22.0	30.6	22.4	13.0	3.76	1.35	0.60	0.41	0.42
MAX	17.5	25.5	83.2	104	157	114	131	35.7	6.97	2.95	1.66	2.42
(WY)	1963	1951	1956	1997	1998	1983	1982	1983	1941	1941	1998	1998
MIN	0.00	0.04	0.25	0.31	0.09	0.32	0.24	0.06	0.00	0.00	0.00	0.00
(WY)	1950	1949	1957	1976	1964	1972	1972	1959	1950	1947	1934	1934

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1934 - 2004	
ANNUAL TOTAL	1853.41		2128.29			
ANNUAL MEAN	5.08		5.81		8.95	
HIGHEST ANNUAL MEAN					32.5 1983	
LOWEST ANNUAL MEAN					0.54 1977	
HIGHEST DAILY MEAN	119	Apr 13	188	Feb 25	1260	Feb 27 1940
LOWEST DAILY MEAN	0.27	Aug 14	0.09	Feb 15	0.00	Oct 1 1933
ANNUAL SEVEN-DAY MINIMUM	0.33	Aug 11	0.52	Jun 1	0.00	Oct 1 1933
MAXIMUM PEAK FLOW			620	Feb 25	2730	Dec 22 1955
MAXIMUM PEAK STAGE			5.03	Feb 25	7.80	Feb 3 1998
ANNUAL RUNOFF (AC-FT)	3680		4220		6480	
10 PERCENT EXCEEDS	12		13		20	
50 PERCENT EXCEEDS	1.5		1.1		0.94	
90 PERCENT EXCEEDS	0.44		0.59		0.00	

11172175 COYOTE CREEK ABOVE HIGHWAY 237, AT MILPITAS, CA

LOCATION.—Lat 37°25'20", long 121°55'35", in Rincon de los Esteras Grant, Santa Clara County, Hydrologic Unit 18050003, on right bank, 500 ft upstream from Highway 237 bridge, 1 mi west of Interstate Highway 880, and 2.3 mi upstream from lower Penitencia Creek.

DRAINAGE AREA.—319 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.—January 1999 to current year.

GAGE.—Water-stage recorder and crest-stage gage. Elevation of gage is 10 ft above NGVD of 1929, from topographic map.

REMARKS.—Records good except Mar. 2–28, Apr. 6 to June 3, which are fair. Flow regulated by Leroy Andersen Reservoir, usable capacity, 89,073 acre-ft, and Coyote Reservoir, usable capacity, 22,925 acre-ft, with water diverted for percolation in spreading basins adjacent to Coyote Creek.

EXTREMES FOR PERIOD OF RECORD.—Maximum discharge, 2,550 ft³/s, Jan. 24, 2000, gage height, 13.10 ft, from rating curve extended above 330 ft³/s, on basis of step-backwater computations, maximum gage height, 13.11 ft, Dec. 16, 2002; minimum daily, 7.9 ft³/s, May 11, 12, 2003.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	17	15	25	476	20	81	21	15	15	11	11	11
2	15	16	29	222	140	64	21	15	15	11	11	11
3	17	33	21	145	157	46	21	16	16	11	11	11
4	16	21	20	76	85	44	21	17	14	11	12	11
5	17	16	20	56	46	40	20	17	13	11	11	10
6	18	15	26	48	39	35	20	15	14	10	12	11
7	17	88	79	46	34	32	20	15	15	11	12	11
8	13	69	26	31	27	31	20	15	15	11	12	10
9	12	526	20	29	25	29	19	15	15	10	11	11
10	11	73	102	26	23	26	18	15	14	9.9	12	11
11	13	36	110	25	22	27	18	15	14	13	11	11
12	13	29	28	24	22	27	18	15	13	11	12	12
13	13	24	24	23	20	26	19	15	13	11	12	11
14	10	27	146	22	19	25	19	15	13	11	12	13
15	11	38	40	23	20	24	18	15	13	11	11	11
16	12	23	27	24	49	23	17	15	13	12	11	11
17	13	20	26	22	35	26	18	14	13	11	11	12
18	14	18	20	22	243	24	30	14	13	11	12	12
19	13	17	40	23	55	22	70	15	12	11	11	24
20	14	17	59	21	40	22	18	15	13	11	11	14
21	14	16	215	21	34	22	16	15	13	13	11	13
22	14	15	34	21	68	22	16	15	13	12	11	11
23	13	14	34	21	52	22	16	15	13	11	12	11
24	13	14	45	109	32	22	17	15	12	11	12	10
25	14	14	195	30	319	49	16	16	12	11	13	10
26	12	14	73	22	495	76	16	17	12	12	13	11
27	10	16	30	25	278	26	16	16	12	11	14	11
28	13	16	28	33	136	24	16	23	11	10	12	12
29	14	16	149	25	96	23	16	18	11	10	12	12
30	12	20	132	22	---	22	15	16	11	10	11	11
31	13	---	69	20	---	21	---	15	---	10	11	---
TOTAL	421	1276	1892	1733	2631	1003	606	484	396	340.9	361	351
MEAN	13.6	42.5	61.0	55.9	90.7	32.4	20.2	15.6	13.2	11.0	11.6	11.7
MAX	18	526	215	476	495	81	70	23	16	13	14	24
MIN	10	14	20	20	19	21	15	14	11	9.9	11	10
AC-FT	835	2530	3750	3440	5220	1990	1200	960	785	676	716	696

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1999 - 2004, BY WATER YEAR (WY)

	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
MEAN	20.7	37.1	69.6	63.5	98.9	72.4	36.7	20.4	16.3	14.6	14.1	15.8
MAX	43.0	46.0	171	112	207	205	59.4	23.7	21.3	18.0	17.2	20.4
(WY)	2001	2003	2003	2000	2000	2000	1999	2003	2000	2001	2001	2001
MIN	11.0	25.9	17.7	37.5	28.8	32.4	20.0	15.6	13.2	11.0	11.2	11.7
(WY)	2003	2001	2000	2003	2002	2004	2002	2004	2004	2004	2002	2004

SUMMARY STATISTICS

	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1999 - 2004	
ANNUAL TOTAL	11170.1		11494.9			
ANNUAL MEAN	30.6		31.4			
HIGHEST ANNUAL MEAN					39.3	
LOWEST ANNUAL MEAN					28.3	2002
HIGHEST DAILY MEAN	526	Nov 9	526	Nov 9	1240	Feb 23 2000
LOWEST DAILY MEAN	7.9	May 11	9.9	Jul 10	7.9	May 11 2003
ANNUAL SEVEN-DAY MINIMUM	11	Aug 16	10	Jul 27	9.8	Jul 26 2002
MAXIMUM PEAK FLOW			1040	Jan 1	2550	Jan 24 2000
MAXIMUM PEAK STAGE			11.70	Jan 1	13.11	Dec 16 2002
ANNUAL RUNOFF (AC-FT)	22160		22800		28440	
10 PERCENT EXCEEDS	58		53		62	
50 PERCENT EXCEEDS	17		16		18	
90 PERCENT EXCEEDS	12		11		12	

11172175 COYOTE CREEK ABOVE HIGHWAY 237, AT MILPITAS, CA—Continued

PERIOD OF RECORD.—October 2003 to September 2004.

WATER TEMPERATURE: October 2003 to September 2004.

SEDIMENT DATA: October 2003 to April 2004.

PERIOD OF DAILY RECORD.—

SUSPENDED-SEDIMENT DISCHARGE: October 2003 to April 2004.

EXTREMES FOR PERIOD OF DAILY RECORD.—

SEDIMENT CONCENTRATION: Maximum daily mean, 1,420 mg/L, Nov. 9, 2003; minimum daily mean, 14 mg/L, Dec. 28, 2003.

SEDIMENT LOAD: Maximum daily, 2,180 tons, Nov. 9, 2003; minimum daily, 0.56 ton, Oct. 14, 2003.

EXTREMES FOR CURRENT YEAR.—

SEDIMENT CONCENTRATION: Maximum daily mean, 1,420 mg/L, Nov. 9; minimum daily mean, 14 mg/L, Dec. 28.

SEDIMENT LOAD: Maximum daily, 2,180 tons, Nov. 9; minimum daily, 0.56 ton, Oct. 14.

TEMPERATURE, WATER, DEGREES CELSIUS, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAILY INSTANTANEOUS VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	11.0	---	---	---	---	---	---	---	---
2	---	---	14.5	10.5	---	13.5	---	---	---	---	---	---
3	---	---	---	10.0	12.5	---	16.5	---	---	---	---	---
4	---	13.0	13.0	9.5	---	---	---	---	---	---	---	---
5	---	13.0	---	---	---	13.0	---	---	---	---	---	---
6	---	---	---	9.5	12.0	---	16.5	---	---	22.0	---	---
7	---	16.0	15.0	---	---	---	---	---	---	---	---	---
8	17.5	16.0	---	---	---	---	---	---	18.0	---	---	---
9	---	---	---	12.0	11.5	14.0	17.0	---	---	---	---	---
10	17.0	---	13.0	---	---	---	---	---	---	---	---	---
11	16.5	---	---	---	---	---	---	---	---	---	---	---
12	---	14.5	---	13.0	---	18.5	18.0	---	---	---	---	---
13	---	---	13.5	---	12.0	---	---	---	---	---	---	---
14	17.5	---	13.0	---	---	---	16.5	---	---	---	---	---
15	---	14.0	---	12.0	---	20.5	16.5	---	---	---	---	---
16	---	---	---	---	14.5	---	---	---	---	---	---	---
17	---	---	---	---	---	---	---	---	---	---	---	---
18	19.0	15.0	11.0	12.5	---	---	15.5	---	---	---	---	---
19	---	---	---	---	---	12.5	---	---	---	---	---	---
20	---	---	---	---	12.5	---	---	---	---	---	21.5	---
21	18.5	---	13.5	12.0	---	---	16.5	---	---	---	---	---
22	---	---	---	---	---	18.5	---	---	---	---	---	---
23	---	12.0	---	---	14.0	---	---	---	---	---	---	---
24	---	---	14.0	12.0	---	---	18.5	---	---	---	---	---
25	18.0	---	12.0	11.5	13.5	15.0	---	---	---	---	---	---
26	---	12.0	10.5	---	11.5	---	---	---	---	---	---	---
27	---	---	---	---	12.5	---	22.0	---	---	---	---	---
28	18.0	---	9.5	12.5	13.0	15.5	---	19.5	---	---	---	---
29	---	12.0	11.5	---	---	---	---	---	---	---	---	---
30	---	---	11.0	---	---	---	19.5	---	---	---	---	---
31	14.5	---	12.0	12.5	---	16.5	---	---	---	---	---	---

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Time	Instantaneous discharge, cfs (00061)	Temperature, water, deg C (00010)	Suspended sediment concentration mg/L (80154)	Suspended sediment discharge, tons/d (80155)	Suspended sediment, sieve diameter percent <.063mm (70331)
NOV						
07...	1150	106	16.0	974	279	99
DEC						
10...	0940	115	12.0	310	96	98
29...	1115	28	10.5	83	6.3	20
29...	1342	123	11.5	143	47	91
29...	1615	223	11.5	190	114	90
JAN						
15...	1426	23	12.0	51	3.2	--
FEB						
25...	1404	435	13.5	352	413	92
APR						
14...	1353	18	16.5	45	2.2	--
MAY						
28...	1440	23	19.5	56	3.5	--

COYOTE CREEK BASIN

11172175 COYOTE CREEK ABOVE HIGHWAY 237, AT MILPITAS, CA—Continued

SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY), WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
	OCTOBER			NOVEMBER			DECEMBER		
1	17	35	1.6	15	19	0.79	25	34	2.3
2	15	34	1.4	16	22	0.94	29	41	3.1
3	17	34	1.6	33	61	6.0	21	42	2.4
4	16	34	1.5	21	25	1.4	20	42	2.3
5	17	33	1.5	16	25	1.1	20	41	2.2
6	18	33	1.6	15	24	0.95	26	53	4.8
7	17	32	1.5	88	624	183	79	203	48
8	13	32	1.2	69	317	103	26	80	5.8
9	12	31	1.0	526	1420	2180	20	56	3.0
10	11	29	0.87	73	429	111	102	236	82
11	13	28	0.96	36	107	11	110	248	90
12	13	26	0.87	29	40	3.1	28	56	4.4
13	13	23	0.82	24	34	2.2	24	38	2.5
14	10	21	0.56	27	46	3.6	146	306	162
15	11	23	0.66	38	92	10	40	82	10
16	12	26	0.83	23	43	2.7	27	34	2.6
17	13	29	1.0	20	39	2.1	26	24	1.7
18	14	32	1.2	18	36	1.7	20	21	1.1
19	13	32	1.2	17	35	1.6	40	63	15
20	14	30	1.2	17	33	1.5	59	92	18
21	14	29	1.1	16	32	1.4	215	218	143
22	14	29	1.1	15	31	1.2	34	56	5.3
23	13	29	1.0	14	29	1.1	34	45	4.1
24	13	30	1.0	14	26	0.99	45	44	5.3
25	14	30	1.1	14	23	0.86	195	176	132
26	12	31	0.96	14	20	0.72	73	114	26
27	10	32	0.92	16	19	0.81	30	35	2.9
28	13	33	1.1	16	20	0.86	28	14	1.1
29	14	29	1.1	16	21	0.90	149	121	90
30	12	22	0.75	20	27	1.5	132	211	97
31	13	17	0.59	---	---	---	69	50	9.1
TOTAL	421	---	33.79	1276	---	2638.02	1892	---	979.0
	JANUARY			FEBRUARY			MARCH		
1	476	420	898	20	26	1.4	81	87	19
2	222	345	248	140	131	84	64	65	11
3	145	169	76	157	146	65	46	54	6.6
4	76	82	17	85	99	26	44	46	5.6
5	56	67	10	46	35	4.4	40	41	4.5
6	48	59	7.7	39	22	2.3	35	42	4.0
7	46	55	6.8	34	21	1.9	32	44	3.9
8	31	51	4.3	27	24	1.8	31	46	3.8
9	29	47	3.6	25	27	1.8	29	48	3.7
10	26	43	3.0	23	26	1.6	26	48	3.4
11	25	38	2.6	22	24	1.5	27	49	3.5
12	24	34	2.2	22	22	1.3	27	49	3.6
13	23	38	2.3	20	20	1.1	26	54	3.7
14	22	45	2.7	19	20	1.0	25	59	3.9
15	23	46	2.9	20	20	1.1	24	64	4.1
16	24	35	2.3	49	45	6.5	23	55	3.4
17	22	31	1.8	35	34	4.6	26	43	2.9
18	22	27	1.6	243	273	221	24	30	1.9
19	23	27	1.6	55	40	6.3	22	20	1.2
20	21	27	1.5	40	24	2.6	22	20	1.2
21	21	28	1.6	34	19	1.8	22	22	1.3
22	21	29	1.6	68	66	14	22	25	1.5
23	21	29	1.6	52	110	15	22	33	2.0
24	109	100	36	32	106	9.1	22	43	2.5
25	30	80	6.5	319	369	492	49	65	13
26	22	60	3.5	495	522	694	76	90	24
27	25	48	3.2	278	297	245	26	34	2.4
28	33	39	3.4	136	143	53	24	27	1.7
29	25	34	2.3	96	109	28	23	25	1.5
30	22	30	1.8	---	---	---	22	23	1.4
31	20	27	1.4	---	---	---	21	22	1.3
TOTAL	1733	---	1358.8	2631	---	1989.1	1003	---	147.5

11172175 COYOTE CREEK ABOVE HIGHWAY 237, AT MILPITAS, CA—Continued

SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY), WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
APRIL			
1	21	25	1.4
2	21	28	1.6
3	21	31	1.7
4	21	31	1.7
5	20	29	1.6
6	20	28	1.5
7	20	29	1.5
8	20	32	1.7
9	19	37	1.9
10	18	57	2.8
11	18	81	3.9
12	18	101	4.8
13	19	81	4.1
14	19	51	2.6
15	18	45	2.2
16	17	47	2.2
17	18	49	2.3
18	30	59	5.4
19	70	97	24
20	18	39	2.0
21	16	35	1.5
22	16	36	1.5
23	16	40	1.7
24	17	45	2.1
25	16	57	2.4
26	16	71	3.0
27	16	83	3.7
28	16	83	3.7
29	16	78	3.4
30	15	74	3.0
31	---	---	---
TOTAL	606	---	96.9
PERIOD	9562	---	7243.11

WATER RESOURCES DATA—CALIFORNIA, WATER YEAR 2004

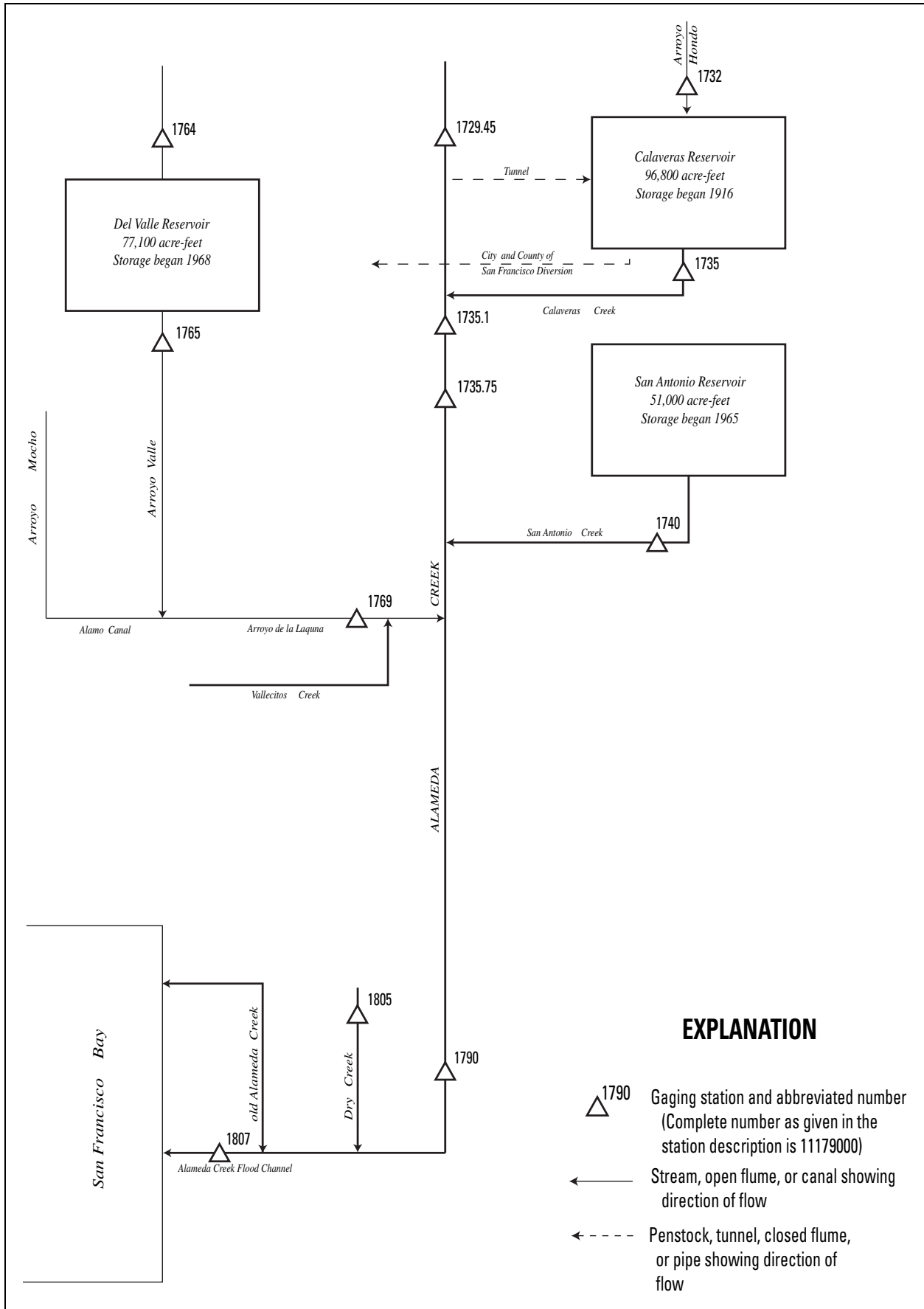


Figure 21. Diversions and storage in Alameda Creek Basin.

11172945 ALAMEDA CREEK ABOVE DIVERSION DAM, NEAR SUNOL, CA

LOCATION.—Lat 37°29'51", long 121°46'21", in SE 1/4 NE 1/4 sec.17, T.5 S., R.2 E., [Alameda County](#), Hydrologic Unit 18050004, on right bank, 700 ft upstream from diversion dam, and 9.3 mi southeast of Sunol.

DRAINAGE AREA.—33.3 mi².

PERIOD OF RECORD.—October 1994 to current year.

GAGE.—Water-stage recorder and crest-stage gage. Elevation of gage is 930 ft above NGVD of 1929, from topographic map.

REMARKS.—Records poor. No regulation or diversion upstream from gage. See schematic diagram of [Alameda Creek Basin](#).

EXTREMES FOR PERIOD OF RECORD.—Maximum discharge, 3,390 ft³/s, Jan. 9, 1995, gage height, 7.96 ft, from rating curve extended above 100 ft³/s, on basis of flow over dam computation; no flow at times in most years.

EXTREMES FOR CURRENT YEAR.—Peak discharges greater than base discharge of 1,200 ft³/s, or maximum:

Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Jan. 1	1300	1,840	6.19

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.06	0.00	1.1	475	1.2	64	6.5	2.2	0.87	0.30	0.07	0.01
2	0.09	0.00	1.1	107	29	59	6.1	2.2	0.84	0.29	0.09	0.00
3	0.09	0.07	1.1	56	85	42	5.7	2.0	0.82	0.26	0.08	0.00
4	0.09	0.00	1.1	31	75	34	5.4	2.0	0.76	0.26	0.09	0.00
5	0.09	0.01	1.4	21	41	29	5.3	2.0	0.77	0.23	0.08	0.00
6	0.09	0.07	1.5	e15	27	24	5.1	1.9	0.76	0.19	0.08	0.00
7	0.08	0.53	2.2	e12	20	21	5.0	1.8	0.77	0.18	0.08	0.00
8	0.08	0.70	1.6	e10	15	19	4.8	1.8	0.78	0.19	0.07	0.00
9	0.03	2.1	1.6	e7.9	12	17	4.6	1.8	0.77	0.21	0.07	0.00
10	0.00	0.93	2.4	e6.4	9.2	16	4.4	1.7	0.75	0.20	0.07	0.00
11	0.00	0.62	2.6	e5.3	7.6	14	4.2	1.7	0.70	0.15	0.06	0.00
12	0.00	0.55	4.8	4.2	6.4	13	4.0	1.6	0.66	0.11	0.05	0.00
13	0.00	0.49	7.6	3.6	5.5	12	3.9	1.6	0.61	0.11	0.05	0.00
14	0.00	0.59	29	3.1	4.9	11	3.9	1.5	0.58	0.11	0.06	0.00
15	0.00	0.85	11	2.8	4.4	11	3.8	1.5	0.49	0.10	0.06	0.00
16	0.00	0.85	5.6	2.5	47	10	3.8	1.4	0.46	0.09	0.06	0.00
17	0.00	0.78	4.4	2.3	36	9.6	3.8	1.5	0.49	0.09	0.06	0.00
18	0.00	0.81	3.9	2.0	264	9.3	4.0	1.4	0.49	0.09	0.04	0.00
19	0.00	0.82	3.7	1.9	76	8.9	4.3	1.3	0.47	0.09	0.04	0.02
20	0.00	0.82	3.6	1.7	49	8.4	4.1	1.3	0.44	0.09	0.05	0.01
21	0.00	0.82	7.6	1.5	40	8.1	4.1	1.4	0.43	0.09	0.05	0.00
22	0.00	0.82	8.0	1.4	46	7.9	3.9	1.4	0.41	0.08	0.05	0.00
23	0.00	0.80	5.4	1.2	45	7.6	3.6	1.3	0.38	0.08	0.05	0.00
24	0.00	0.88	26	1.8	35	7.4	3.3	1.2	0.37	0.09	0.05	0.00
25	0.00	0.95	55	2.0	187	8.0	3.0	1.2	0.35	0.08	0.05	0.00
26	0.00	0.95	28	1.7	552	11	2.8	1.2	0.34	0.07	0.05	0.00
27	0.00	0.95	11	1.5	247	8.5	2.6	1.1	0.32	0.06	0.03	0.00
28	0.00	0.95	7.2	1.5	124	7.6	2.6	1.2	0.30	0.07	0.01	0.00
29	0.00	1.1	94	1.6	77	7.1	2.5	1.1	0.30	0.07	0.00	0.00
30	0.00	1.1	89	1.4	---	7.0	2.4	0.97	0.31	0.07	0.01	0.00
31	0.00	---	26	1.4	---	6.8	---	0.93	---	0.07	0.01	---
TOTAL	0.70	20.91	448.5	787.7	2168.2	519.2	123.5	47.20	16.79	4.17	1.67	0.04
MEAN	0.02	0.70	14.5	25.4	74.8	16.7	4.12	1.52	0.56	0.13	0.05	0.00
MAX	0.09	2.1	94	475	552	64	6.5	2.2	0.87	0.30	0.09	0.02
MIN	0.00	0.00	1.1	1.2	1.2	6.8	2.4	0.93	0.30	0.06	0.00	0.00
AC-FT	1.4	41	890	1560	4300	1030	245	94	33	8.3	3.3	0.08

e Estimated.

ALAMEDA CREEK BASIN

11172945 ALAMEDA CREEK ABOVE DIVERSION DAM, NEAR SUNOL, CA—Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1995 - 2004, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	0.21	3.62	32.3	95.3	100	58.4	21.5	10.8	3.54	1.13	0.45	0.27
MAX	0.83	22.7	125	237	306	211	55.2	29.1	9.79	3.76	1.81	1.22
(WY)	1999	1997	1997	1997	1998	1995	1998	2003	1995	1998	1998	1998
MIN	0.01	0.17	0.58	6.33	7.59	10.2	4.12	1.52	0.56	0.13	0.05	0.00
(WY)	1995	1996	2001	2001	2003	2003	2004	2004	2004	2004	2004	2004

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1995 - 2004	
ANNUAL TOTAL	3767.73		4138.58			
ANNUAL MEAN	10.3		11.3		27.0	
HIGHEST ANNUAL MEAN					49.8 1998	
LOWEST ANNUAL MEAN					8.62 2001	
HIGHEST DAILY MEAN	208	May 3	552	Feb 26	1200	Jan 10 1995
LOWEST DAILY MEAN	0.00	Sep 21	0.00	Oct 10	0.00	Oct 1 1994
ANNUAL SEVEN-DAY MINIMUM	0.00	Sep 21	0.00	Oct 10	0.00	Oct 13 1994
MAXIMUM PEAK FLOW			1840	Jan 1	3390	Jan 9 1995
MAXIMUM PEAK STAGE			6.19	Jan 1	7.96	Jan 9 1995
INSTANTANEOUS LOW FLOW					0.00	Oct 1 1994
ANNUAL RUNOFF (AC-FT)	7470		8210		19540	
10 PERCENT EXCEEDS	25		22		56	
50 PERCENT EXCEEDS	4.1		1.1		2.2	
90 PERCENT EXCEEDS	0.03		0.00		0.10	

11173200 ARROYO HONDO NEAR SAN JOSE, CA

LOCATION.—Lat 37°27'42", long 121°46'06", in NE 1/4 NE 1/4 sec.32, T.5 S., R.2 E., [Santa Clara County](#), Hydrologic Unit 18050004, on right bank, 150 ft upstream from road bridge, 3.5 mi southeast of Calaveras Dam, and 3.5 mi northeast of city limits of San Jose.

DRAINAGE AREA.—77.1 mi².

PERIOD OF RECORD.—October 1968 to September 1981, October 1994 to current year.

GAGE.—Water-stage recorder. Datum of gage is 783.86 ft above NGVD of 1929.

REMARKS.—Records good except for Feb. 26 to Mar. 18 during period with fouled orifice, which is fair. No regulation or diversion upstream from station. See schematic diagram of [Alameda Creek Basin](#).

EXTREMES FOR PERIOD OF RECORD.—Maximum discharge, 7,340 ft³/s, Feb. 3, 1998, gage height, 15.85 ft; minimum daily, 0.11 ft³/s, July 28–30, 1972.

EXTREMES FOR CURRENT YEAR.—Peak discharges greater than base discharge of 800 ft³/s, or maximum:

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Dec. 30	0015	962	8.01	Feb. 18	1045	972	8.03
Jan. 1	1745	1,910	9.63	Feb. 25	1745	2,360	10.27

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.0	0.80	3.2	597	9.2	172	13	5.7	2.7	1.3	0.52	0.27
2	1.2	0.84	3.4	294	34	149	12	5.5	2.7	1.3	0.57	0.24
3	1.2	0.96	4.0	130	182	113	12	5.1	2.7	1.3	0.55	0.25
4	1.2	0.91	4.3	73	168	96	12	4.4	2.5	1.3	0.50	0.28
5	1.2	0.99	4.1	51	89	83	11	4.5	2.4	1.2	0.47	0.31
6	1.2	1.1	4.0	39	58	71	11	4.6	2.3	1.2	0.49	0.33
7	0.97	1.4	5.9	34	45	62	11	4.6	2.3	1.3	0.48	0.34
8	0.84	1.9	9.4	29	36	56	11	4.4	2.3	1.4	0.47	0.35
9	0.87	6.4	6.4	24	30	52	11	4.2	2.3	1.5	0.50	0.37
10	0.91	13	7.8	20	25	45	10	4.4	2.3	1.3	0.48	0.40
11	0.92	5.7	19	18	22	35	9.9	4.4	2.2	1.2	0.46	0.39
12	0.94	4.0	17	16	20	30	9.6	4.2	2.2	1.2	0.47	0.43
13	0.95	3.4	11	15	19	28	9.5	4.0	2.1	1.2	0.50	0.42
14	0.95	3.2	30	14	17	25	9.4	3.8	2.1	1.1	0.52	0.41
15	0.94	3.2	44	14	16	24	9.3	3.7	2.2	0.84	0.47	0.42
16	0.75	3.2	19	13	44	21	9.3	3.5	2.1	0.73	0.45	0.38
17	0.80	3.4	12	12	85	20	9.3	3.4	1.8	0.69	0.43	0.36
18	0.81	3.4	9.3	11	582	19	9.5	3.4	1.7	0.65	0.42	0.40
19	0.83	3.3	8.1	11	226	18	11	3.5	1.7	0.63	0.41	0.47
20	0.81	3.2	8.3	11	125	17	10	3.5	1.7	0.63	0.41	0.44
21	0.78	3.1	13	10	91	16	9.7	3.3	1.6	0.62	0.41	0.41
22	0.80	3.0	24	9.6	81	16	9.3	3.4	1.4	0.60	0.43	0.39
23	0.79	2.9	17	9.0	77	16	8.7	3.6	1.3	0.62	0.42	0.38
24	0.77	2.9	24	11	61	15	8.1	3.5	1.3	0.62	0.42	0.36
25	0.76	2.7	94	12	667	16	7.5	3.3	1.3	0.54	0.38	0.37
26	0.75	2.6	88	11	1380	21	7.2	3.1	1.4	0.47	0.29	0.34
27	0.72	2.6	40	10	661	18	6.8	3.1	1.3	0.47	0.28	0.35
28	0.68	2.8	24	11	331	16	6.5	3.1	1.2	0.49	0.26	0.36
29	0.64	2.9	42	10	219	15	6.0	3.0	1.3	0.49	0.26	0.38
30	0.69	3.0	304	10	---	14	5.8	3.0	1.3	0.49	0.25	0.36
31	0.77	---	71	9.7	---	13	---	2.9	---	0.50	0.27	---
TOTAL	27.44	92.80	971.2	1539.3	5400.2	1312	286.4	120.1	57.7	27.88	13.24	10.96
MEAN	0.89	3.09	31.3	49.7	186	42.3	9.55	3.87	1.92	0.90	0.43	0.37
MAX	1.2	13	304	597	1380	172	13	5.7	2.7	1.5	0.57	0.47
MIN	0.64	0.80	3.2	9.0	9.2	13	5.8	2.9	1.2	0.47	0.25	0.24
AC-FT	54	184	1930	3050	10710	2600	568	238	114	55	26	22

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1969 - 2004, BY WATER YEAR (WY)

MEAN	1.57	12.1	55.7	165	202	127	47.6	16.8	6.73	2.81	1.42	1.12
MAX	4.74	69.4	312	595	888	523	178	55.4	27.0	12.7	6.09	3.98
(WY)	1999	1973	1997	1997	1998	1995	1974	2003	1998	1998	1998	1998
MIN	0.24	0.67	1.42	3.35	2.98	5.58	2.93	1.67	0.74	0.33	0.18	0.25
(WY)	1978	1978	1977	1976	1977	1977	1977	1976	1976	1977	1972	1977

SUMMARY STATISTICS

FOR 2003 CALENDAR YEAR

FOR 2004 WATER YEAR

WATER YEARS 1969 - 2004

ANNUAL TOTAL	7457.56	9859.22	
ANNUAL MEAN	20.4	26.9	52.6
HIGHEST ANNUAL MEAN			132
LOWEST ANNUAL MEAN			2.12
HIGHEST DAILY MEAN	304	Dec 30	1380
LOWEST DAILY MEAN	0.64	Oct 29	0.24
ANNUAL SEVEN-DAY MINIMUM	0.72	Oct 24	0.26
MAXIMUM PEAK FLOW			2360
MAXIMUM PEAK STAGE			10.27
ANNUAL RUNOFF (AC-FT)	14790	19560	38120
10 PERCENT EXCEEDS	51	45	108
50 PERCENT EXCEEDS	8.1	3.3	4.7
90 PERCENT EXCEEDS	0.92	0.42	0.65

11173500 CALAVERAS CREEK NEAR SUNOL, CA

LOCATION.—Lat 37°29'52", long 121°49'00", in NE 1/4 SW 1/4 sec.13, T.5 S., R.1 E., [Alameda County](#), Hydrologic Unit 18050004, 1000 ft downstream from Calaveras Dam, and 7.3 mi southeast of Sunol.

DRAINAGE AREA.—98.7 mi².

PERIOD OF RECORD.—April 1898 to September 1908, June 1910 to June 1930 (records furnished by Spring Valley Water Company). May 2002 to current year. Monthly flows for water years 1898–1930 published in WSP 1315-B. Water years 1920–24, daily and monthly discharges published in WSP 591. Water years 1925–29, daily flows published in WSP 611, 631, 651, 671, 721. Station reestablished May 23, 2002, by U.S. Geological Survey.

GAGE.—Water-stage recorder, concrete control and bank-operated cableway. Elevation of gage is 550 ft above NGVD of 1929, from topographic map. Prior to 1913 at site 400 ft upstream at different datum. 1913–30 at site 500 ft upstream at different datum.

REMARKS.—Records for flows between 1 and 100 ft³/s are considered good, otherwise considered poor due to lack of accurate rating definition. Flow regulated by Calaveras Reservoir beginning in 1916, usable capacity, 96,800 acre-ft. Dam completed in 1925. Dead storage, 3,200 acre-ft. Flow is diverted out of basin from Calaveras Reservoir by city and county of San Francisco for domestic use. See schematic diagram of [Alameda Creek Basin](#).

EXTREMES FOR PERIOD OF RECORD.—Maximum mean daily discharge prior to start of regulation: 6,980 ft³/s, Nov. 21, 1900. Maximum mean daily discharge after dam completion in 1925: 122 ft³/s, May 11, 1926. Maximum instantaneous discharge since start of continuous record on May 23, 2002; 103 ft³/s, Apr. 20, 2004, gage height, 5.86 ft. No flow many days most years since construction of Calaveras Dam was begun in 1916. No instantaneous maximum or minimum flow data are available prior to May 2002.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.08	0.04	0.04	0.28	0.05	0.03	0.08	0.06	0.06	0.05	0.00	0.00
2	0.09	0.04	0.04	0.03	0.09	0.03	0.08	0.06	0.06	0.04	0.00	0.00
3	0.10	0.04	0.04	0.02	0.05	0.03	0.09	0.06	0.06	0.03	0.01	0.00
4	0.08	0.03	0.04	0.02	0.04	0.03	0.09	0.06	0.06	0.03	0.00	0.00
5	0.07	0.03	0.04	0.02	0.03	0.03	0.09	0.07	0.06	0.03	0.00	0.00
6	0.05	0.03	0.05	0.02	0.03	0.03	0.09	0.06	0.06	0.03	0.00	0.00
7	0.03	0.04	0.05	0.03	0.03	0.03	0.09	0.06	0.06	0.02	0.01	0.00
8	0.03	0.04	0.05	0.03	0.03	0.03	0.09	0.07	0.06	0.02	0.00	0.00
9	0.03	0.05	0.05	0.03	0.03	0.03	0.08	0.06	0.05	0.02	0.00	0.02
10	0.03	0.04	0.05	0.03	0.04	0.02	0.09	0.06	0.05	0.02	0.00	0.00
11	0.03	0.03	0.05	0.03	0.04	0.03	0.09	0.06	0.05	0.02	0.00	0.00
12	0.01	0.03	0.05	0.03	0.05	0.03	0.09	0.06	0.05	0.02	0.00	0.00
13	0.01	0.04	0.05	0.03	0.05	0.03	0.08	0.06	0.05	0.02	0.00	0.00
14	0.01	0.04	0.05	0.04	0.05	0.02	0.07	0.06	0.05	0.02	0.00	0.01
15	0.01	0.04	0.05	0.05	0.05	0.02	0.07	0.06	0.05	0.02	0.01	0.01
16	0.02	0.04	0.05	0.05	0.05	0.02	26	0.06	0.05	0.01	0.00	0.01
17	0.02	0.03	0.05	0.05	0.07	0.02	44	0.06	0.05	0.01	0.01	0.02
18	0.01	0.03	0.05	0.05	0.09	0.71	44	0.06	0.04	0.01	0.01	0.03
19	0.01	0.03	0.05	0.06	0.03	0.10	44	0.06	0.04	0.00	0.01	0.04
20	0.01	0.03	0.05	0.06	0.03	0.10	63	0.06	0.04	0.01	0.01	0.04
21	0.01	0.03	0.06	0.05	0.03	0.09	100	0.06	0.03	0.00	0.01	0.04
22	0.01	0.03	0.05	0.05	0.04	0.09	61	0.06	0.03	0.00	0.02	0.04
23	0.01	0.03	0.05	0.05	0.04	0.09	14	0.06	0.04	0.00	0.02	0.03
24	0.00	0.04	0.05	0.05	0.04	0.09	0.08	0.06	0.04	0.00	0.02	0.03
25	0.00	0.04	0.05	0.05	0.11	0.10	0.08	0.06	0.04	0.00	0.02	0.04
26	0.00	0.05	0.05	0.05	0.36	0.09	0.07	0.06	0.05	0.00	0.02	0.03
27	0.00	0.05	0.05	0.06	0.09	0.09	0.08	0.06	0.05	0.00	0.01	0.04
28	0.00	0.04	0.05	0.06	0.05	0.09	0.07	0.06	0.05	0.01	0.01	0.04
29	0.00	0.04	0.06	0.03	0.03	0.09	0.06	0.06	0.06	0.00	0.01	0.04
30	0.00	0.04	0.05	0.04	---	0.09	0.06	0.05	0.05	0.00	0.01	0.04
31	0.02	---	0.05	0.04	---	0.08	---	0.05	---	0.00	0.01	---
TOTAL	0.78	1.11	1.52	1.49	1.72	2.36	397.77	1.86	1.49	0.44	0.23	0.55
MEAN	0.03	0.04	0.05	0.05	0.06	0.08	13.3	0.06	0.05	0.01	0.01	0.02
MAX	0.10	0.05	0.06	0.28	0.36	0.71	100	0.07	0.06	0.05	0.02	0.04
MIN	0.00	0.03	0.04	0.02	0.03	0.02	0.06	0.05	0.03	0.00	0.00	0.00
AC-FT	1.5	2.2	3.0	3.0	3.4	4.7	789	3.7	3.0	0.9	0.5	1.1

11173500 CALAVERAS CREEK NEAR SUNOL, CA—Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1898 - 1916

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	2.769	29.11	43.23	252.5	195.4	218.2	64.94	39.31	14.53	6.543	3.951	2.916
MAX	8.61	317	167	777	717	799	208	175	34.3	16.0	20.0	17.9
MIN	0.000	0.000	0.25	7.73	8.50	14.6	4.75	4.14	2.29	0.000	0.000	0.000

SUMMARY STATISTICS

WATER YEARS 1898 - 1916

ANNUAL MEAN	72.92
HIGHEST ANNUAL MEAN	149 1907
LOWEST ANNUAL MEAN	13.1 1913
HIGHEST DAILY MEAN	6980 Nov 21 1900
LOWEST DAILY MEAN	0.00 Jun 29 1914
ANNUAL SEVEN-DAY MINIMUM	0.00 Jun 29 1914
ANNUAL RUNOFF (AC-FT)	52830
10 PERCENT EXCEEDS	152
50 PERCENT EXCEEDS	10
90 PERCENT EXCEEDS	1.0

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1925 - 2004, BY WATER YEAR (WY)

MEAN	29.1	25.1	23.8	14.9	7.46	7.71	16.2	46.3	34.7	31.2	28.0	27.7
MAX	62.8	62.3	54.0	35.9	22.1	22.0	26.8	94.0	97.1	84.3	64.9	64.0
(WY)	1927	1928	1927	1927	1929	1929	1929	1927	1927	1927	1926	1926
MIN	0.03	0.04	0.05	0.04	0.06	0.00	0.10	0.06	0.00	0.01	0.01	0.02
(WY)	2004	2004	2004	2003	2004	1925	2003	2004	1929	2003	2004	2004

SUMMARY STATISTICS

FOR 2003 CALENDAR YEAR

FOR 2004 WATER YEAR

WATER YEARS 1925 - 2004

ANNUAL TOTAL	25.37	411.32	
ANNUAL MEAN	0.07	1.12	26.2
HIGHEST ANNUAL MEAN			53.3 1927
LOWEST ANNUAL MEAN			0.10 2003
HIGHEST DAILY MEAN	0.91 Apr 13	100 Apr 21	122 May 11 1926
LOWEST DAILY MEAN	0.00 Jan 1	0.00 Oct 24	0.00 Oct 7 1924
ANNUAL SEVEN-DAY MINIMUM	0.00 Jul 16	0.00 Oct 24	0.00 Dec 23 1924
MAXIMUM PEAK FLOW		103 Apr 20	103 Apr 20 2004
MAXIMUM PEAK STAGE		5.86 Apr 20	5.86 Apr 20 2004
ANNUAL RUNOFF (AC-FT)	50	816	18990
10 PERCENT EXCEEDS	0.16	0.09	64
50 PERCENT EXCEEDS	0.05	0.04	16
90 PERCENT EXCEEDS	0.00	0.00	0.00

11173510 ALAMEDA CREEK BELOW CALAVERAS CREEK, NEAR SUNOL, CA

LOCATION.—Lat 37°30'13", long 121°49'25", in NE 1/4 NE 1/4 sec.13, T.5 S., R.1 E., Alameda County, Hydrologic Unit 18050004, on right bank, 0.2 mi downstream from Calaveras Creek, 1.1 mi downstream from Calaveras Dam, and 7.3 mi southeast of Sunol.

DRAINAGE AREA.—135 mi².

PERIOD OF RECORD.—October 1995 to current year (low-flow records only).

GAGE.—Water-stage recorder. Elevation of gage is 430 ft above NGVD of 1929, from topographic map.

REMARKS.—Records good above 3 ft³/s and poor below. No records computed above 200 ft³/s. Flow regulated by Calaveras Reservoir, usable capacity, 96,800 acre-ft, 1.1 mi upstream from gage and by diversion dam on Alameda Creek, 2.9 mi upstream. Dead storage, 3,200 acre-ft. Flow is diverted out of basin from Calaveras Reservoir by city and county of San Francisco for domestic use. See schematic diagram of Alameda Creek Basin. There are no peaks for this site-low flow only

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.17	0.16	0.22	---	0.66	7.9	1.3	0.94	0.22	0.06	0.06	0.08
2	0.18	0.15	0.20	28	1.9	7.6	1.2	0.87	0.22	0.05	0.06	0.08
3	0.18	0.20	0.19	14	12	5.0	1.2	0.85	0.21	0.04	0.07	0.08
4	0.17	0.17	0.18	8.3	11	4.0	1.2	0.79	0.19	0.04	0.06	0.08
5	0.16	0.15	0.21	5.2	6.3	3.3	1.2	0.74	0.19	0.04	0.06	0.08
6	0.18	0.15	0.24	3.5	4.2	2.7	1.2	0.74	0.19	0.03	0.06	0.08
7	0.17	0.20	0.32	2.9	3.4	2.5	1.2	0.69	0.19	0.03	0.06	0.08
8	0.17	0.24	0.20	2.3	3.0	2.3	1.2	0.67	0.17	0.03	0.07	0.07
9	0.17	0.42	0.19	2.0	3.1	2.1	1.2	0.66	0.17	0.06	0.07	0.07
10	0.17	0.18	0.49	1.8	2.8	2.0	1.2	0.60	0.17	0.06	0.07	0.07
11	0.16	0.13	0.47	1.7	2.7	2.0	1.2	0.58	0.16	0.06	0.07	0.07
12	0.15	0.13	0.35	1.6	2.5	1.8	1.2	0.57	0.14	0.06	0.07	0.07
13	0.15	0.12	0.39	1.5	2.5	1.8	1.2	0.50	0.13	0.06	0.07	0.07
14	0.15	0.14	0.61	1.4	2.4	1.8	1.2	0.49	0.13	0.06	0.07	0.07
15	0.15	0.17	0.38	1.3	2.2	1.7	1.2	0.48	0.12	0.06	0.07	0.07
16	0.15	0.14	0.36	1.3	2.6	1.6	21	0.44	0.10	0.06	0.07	0.07
17	0.14	0.14	0.41	1.2	3.2	1.6	40	0.44	0.10	0.06	0.07	0.06
18	0.15	0.14	0.45	1.2	42	1.9	40	0.42	0.10	0.07	0.07	0.06
19	0.14	0.14	0.52	1.1	13	1.6	40	0.37	0.10	0.07	0.08	0.07
20	0.12	0.14	0.56	1.1	10	1.5	57	0.37	0.09	0.07	0.08	0.07
21	0.12	0.14	0.73	1.00	9.2	1.5	97	0.35	0.09	0.06	0.08	0.06
22	0.11	0.14	0.62	0.97	10	1.5	60	0.33	0.09	0.06	0.08	0.06
23	0.10	0.14	0.67	0.91	7.9	1.4	14	0.31	0.09	0.06	0.09	0.06
24	0.09	0.15	0.76	1.1	7.0	1.4	1.2	0.27	0.07	0.06	0.09	0.06
25	0.08	0.16	1.8	0.88	33	1.5	1.0	0.25	0.07	0.06	0.09	0.06
26	0.08	0.16	2.9	0.83	---	1.5	0.95	0.24	0.06	0.05	0.09	0.05
27	0.08	0.16	1.8	0.84	31	1.4	0.96	0.20	0.06	0.05	0.09	0.05
28	0.08	0.17	1.4	0.77	14	1.3	0.96	0.26	0.06	0.06	0.08	0.05
29	0.08	0.17	4.8	0.71	9.1	1.3	0.94	0.27	0.06	0.06	0.08	0.06
30	0.10	0.20	8.6	0.71	---	1.3	0.96	0.26	0.06	0.06	0.08	0.05
31	0.16	---	2.8	0.71	---	1.3	---	0.23	---	0.06	0.08	---
TOTAL	4.26	5.00	33.82	---	---	72.1	394.07	15.18	3.80	1.71	2.29	2.01
MEAN	0.14	0.17	1.09	---	---	2.33	13.1	0.49	0.13	0.06	0.07	0.07
MAX	0.18	0.42	8.6	---	---	7.9	97	0.94	0.22	0.07	0.09	0.08
MIN	0.08	0.12	0.18	---	---	1.3	0.94	0.20	0.06	0.03	0.06	0.05
AC-FT	8.4	9.9	67	---	---	143	782	30	7.5	3.4	4.5	4.0

11173575 ALAMEDA CREEK BELOW WELCH CREEK, NEAR SUNOL, CA

LOCATION.—Lat 37°32'26", long 121°51'19", in Valle de San Jose Grant in unsurveyed section, T.4 S., R.1 E., Alameda County, Hydrologic Unit 18050004, on left bank, 0.3 mi downstream from Welch Creek, 4.0 mi southeast of Sunol, at bridge to entrance at city of San Francisco Water Department Filtration Plant.

DRAINAGE AREA.—145 mi².

PERIOD OF RECORD.—October 1999 to current year.

WATER TEMPERATURE: October 1999 to June 2003.

SEDIMENT DATA: October 1999 to June 2003.

GAGE.—Water-stage recorder. Elevation of gage is 300 ft above NGVD of 1929, from levels.

REMARKS.—Records good except those below 1 ft³/s, which are poor. Flow regulated by Calaveras Reservoir, usable capacity, 96,800 acre-ft, 3.7 mi upstream from gage and by diversion dam on Alameda Creek, 5.5 mi upstream. Dead storage, 3,200 acre-ft. Flow is diverted out of basin from Calaveras Reservoir by city and county of San Francisco for domestic use. See schematic diagram of [Alameda Creek Basin](#).

EXTREMES FOR PERIOD OF RECORD.—Maximum discharge, 5,750 ft³/s, Dec. 16, 2002, gage height, 19.07 ft, from rating curve extended above 664 ft³/s; no flow many days August and September 2002, and Oct. 29 to Nov. 4, 2002, Aug. 8 to Sep. 30, 2004.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.38	0.15	0.65	595	1.4	16	2.1	2.1	0.53	0.16	0.08	0.00
2	0.40	0.17	0.74	33	7.4	16	2.0	1.9	0.46	0.17	0.07	0.00
3	0.41	0.29	0.70	15	13	11	1.9	1.9	0.44	0.16	0.02	0.00
4	0.39	0.32	0.83	9.0	13	9.6	1.9	1.8	0.43	0.16	0.03	0.00
5	0.32	0.29	0.30	6.6	8.0	8.0	1.9	1.3	0.40	0.15	0.03	0.00
6	0.26	0.29	0.31	5.6	5.9	7.1	1.8	1.3	0.38	0.13	0.02	0.00
7	0.23	0.40	0.91	5.2	5.4	6.6	1.8	1.3	0.35	0.13	0.01	0.00
8	0.21	0.64	0.57	4.2	4.4	6.0	1.7	1.6	0.36	0.14	0.00	0.00
9	0.19	1.5	0.54	3.6	3.8	5.5	1.7	1.8	0.38	0.16	0.00	0.00
10	0.17	0.46	1.4	3.5	3.6	4.8	1.6	1.4	0.38	0.21	0.00	0.00
11	0.14	0.26	1.5	3.4	3.5	4.5	1.5	1.4	0.35	0.22	0.00	0.00
12	0.11	0.20	1.0	3.2	3.3	4.3	1.5	1.2	0.31	0.22	0.00	0.00
13	0.11	0.17	1.0	3.0	3.1	4.3	1.5	1.2	0.28	0.26	0.00	0.00
14	0.11	0.18	2.3	2.8	2.9	4.0	1.5	1.2	1.5	0.26	0.00	0.00
15	0.15	0.38	1.4	2.7	2.8	3.7	1.4	1.1	0.42	0.26	0.00	0.00
16	0.19	0.23	1.0	2.6	4.2	3.5	16	1.1	0.32	0.23	0.00	0.00
17	0.21	0.21	0.96	2.5	6.0	3.2	43	1.1	0.17	0.25	0.00	0.00
18	0.23	0.34	0.87	2.4	60	3.2	44	1.2	0.20	0.28	0.00	0.00
19	0.26	0.35	1.0	2.4	14	3.3	43	1.3	0.20	0.26	0.00	0.00
20	0.28	0.34	1.2	2.3	10	2.9	55	1.4	0.22	0.19	0.00	0.00
21	0.28	0.31	1.9	2.2	9.6	2.8	97	1.2	0.24	0.19	0.00	0.00
22	0.31	0.34	1.2	2.1	9.9	2.7	67	1.2	0.23	0.17	0.00	0.00
23	0.32	0.36	1.2	2.0	9.8	2.7	20	1.2	0.21	0.17	0.00	0.00
24	0.30	0.37	1.6	2.8	7.9	2.5	4.0	1.3	0.19	0.15	0.00	0.00
25	0.25	0.41	2.7	2.1	60	3.4	2.5	1.4	0.15	0.13	0.00	0.00
26	0.24	0.43	3.7	1.9	363	3.3	1.9	1.0	0.16	0.08	0.00	0.00
27	0.19	0.44	2.2	1.8	58	2.6	1.7	0.79	0.17	0.09	0.00	0.00
28	0.17	0.46	1.8	1.8	29	2.5	1.8	0.84	0.15	0.09	0.00	0.00
29	0.15	0.49	2.8	1.6	19	4.1	1.9	0.79	0.15	0.08	0.00	0.00
30	0.16	0.61	13	1.5	---	3.8	2.0	0.66	0.15	0.08	0.00	0.00
31	0.16	---	3.4	1.4	---	2.9	---	0.56	---	0.07	0.00	---
TOTAL	7.28	11.39	54.68	729.2	741.9	160.8	426.6	39.54	9.88	5.30	0.26	0.00
MEAN	0.23	0.38	1.76	23.5	25.6	5.19	14.2	1.28	0.33	0.17	0.01	0.00
MAX	0.41	1.5	13	595	363	16	97	2.1	1.5	0.28	0.08	0.00
MIN	0.11	0.15	0.30	1.4	1.4	2.5	1.4	0.56	0.15	0.07	0.00	0.00
AC-FT	14	23	108	1450	1470	319	846	78	20	11	0.5	0.00

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2000 - 2004, BY WATER YEAR (WY)

	2000	2001	2002	2003	2004
MEAN	3.77	1.70	46.7	70.2	52.2
MAX	17.2	5.44	117	282	183
(WY)	2002	2003	2003	2002	2000
MIN	0.07	0.38	1.13	2.93	4.97
(WY)	2003	2004	2001	2001	2003

SUMMARY STATISTICS

FOR 2003 CALENDAR YEAR

FOR 2004 WATER YEAR

WATER YEARS 2000 - 2004

ANNUAL TOTAL	2667.99	2186.83		
ANNUAL MEAN	7.31	5.97	22.0	
HIGHEST ANNUAL MEAN			42.7	2000
LOWEST ANNUAL MEAN			2.30	2001
HIGHEST DAILY MEAN	178	May 3	595	Jan 1
LOWEST DAILY MEAN	0.04	Sep 2	0.00	Aug 8
ANNUAL SEVEN-DAY MINIMUM	0.06	Aug 31	0.00	Aug 8
MAXIMUM PEAK FLOW			2580	Jan 1
MAXIMUM PEAK STAGE			15.53	Jan 1
ANNUAL RUNOFF (AC-FT)	5290	4340	15920	
10 PERCENT EXCEEDS	19	6.6	26	
50 PERCENT EXCEEDS	1.9	0.56	1.5	
90 PERCENT EXCEEDS	0.15	0.00	0.10	

11174000 SAN ANTONIO CREEK NEAR SUNOL, CA

LOCATION.—Lat 37°34'39", long 121°51'24", in Valle de San Jose Grant, Alameda County, Hydrologic Unit 18050004, on right bank, 0.4 mi upstream from Calaveras Road Bridge, 0.85 mi upstream from mouth, and 2 mi southeast of town of Sunol.

DRAINAGE AREA.—37.0 mi².

PERIOD OF RECORD.—January 1912 to September 1930 (records furnished by Spring Valley Water Company), February 1960 to September 1965, and October 1999 to current year. Monthly discharge only for some periods, published in WSP 1315-B (published as "La Costa Creek near Sunol").

SEDIMENT DATA: Water years 2000–01.

GAGE.—Water-stage recorder and concrete control. Datum of gage is 271.56 ft above NGVD of 1929 (levels by City of San Francisco). Prior to Feb. 8, 1960, at site 0.65 mi upstream at different datum.

REMARKS.—Records good. Flows regulated by Lake San Antonio located 0.6 mi upstream of gage beginning in October 1964. Reservoir filling completion date was February 1965. Flows can be released for emergency flood conditions, but purpose of the reservoir is for water supply. Total storage capacity is 50,500 acre-ft.

EXTREMES FOR PERIOD OF RECORD.—Maximum discharge prior to regulation for years with available instantaneous maxima (1921–30 and 1960–63), 1,970 ft³/s, Jan. 31, 1963, gage height, 7.16 ft. Maximum discharge for period after regulation, 425 ft³/s, Feb. 3, 2003, gage height, 4.95 ft; no flow for many days most years.

EXTREMES OUTSIDE PERIOD OF RECORD.—Flood of Dec. 23, 1955, 5,180 ft³/s (by slope-area measurement of peak flow).

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.05	0.07	0.11	5.4	0.32	0.46	0.05	0.00	0.00	0.00	0.00	0.00
2	0.06	0.08	0.10	1.3	1.5	0.43	0.05	0.00	0.00	0.00	0.00	0.00
3	0.06	0.11	0.10	0.66	1.0	0.34	0.05	0.00	0.00	0.00	0.00	0.00
4	0.06	0.09	0.10	0.41	0.65	0.32	0.05	0.00	0.00	0.00	0.00	0.00
5	0.06	0.09	0.11	0.32	0.53	0.27	0.05	0.00	0.00	0.00	0.00	0.00
6	0.05	0.09	0.12	0.26	0.47	0.23	0.05	0.00	0.00	0.00	0.00	0.00
7	0.05	0.10	0.15	0.25	0.44	0.21	0.05	0.00	0.00	0.00	0.00	0.00
8	0.05	0.15	0.13	0.23	0.42	0.21	0.05	0.00	0.00	0.00	0.00	0.00
9	0.06	0.15	0.14	0.21	0.40	0.19	0.05	0.00	0.00	0.00	0.00	0.00
10	0.06	0.11	0.18	0.20	0.40	0.19	0.05	0.00	0.00	0.00	0.00	0.00
11	0.06	0.11	0.15	0.17	0.38	0.18	0.04	0.00	0.00	0.00	0.00	0.00
12	0.06	0.10	0.13	0.16	0.37	0.15	0.04	0.00	0.00	0.00	0.00	0.00
13	0.05	0.09	0.13	0.15	0.37	0.13	0.04	0.00	0.00	0.00	0.00	0.00
14	0.05	0.10	0.21	0.15	0.37	0.13	0.03	0.00	0.00	0.00	0.00	0.00
15	0.05	0.10	0.15	0.15	0.37	0.12	0.03	0.00	0.00	0.00	0.00	0.00
16	0.06	0.10	0.13	0.15	0.41	0.11	0.03	0.00	0.00	0.00	0.00	0.00
17	0.06	0.10	0.12	0.14	0.58	0.11	0.03	0.00	0.00	0.00	0.00	0.00
18	0.06	0.10	0.11	0.13	2.5	0.10	0.03	0.00	0.00	0.00	0.00	0.00
19	0.06	0.10	0.12	0.13	0.72	0.10	0.03	0.00	0.00	0.00	0.00	0.00
20	0.07	0.10	0.12	89	0.60	0.10	0.04	0.00	0.00	0.00	0.00	0.00
21	0.06	0.10	0.14	237	0.58	0.09	0.04	0.00	0.00	0.00	0.00	0.00
22	0.05	0.09	0.13	29	0.58	0.09	0.03	0.00	0.00	0.00	0.00	0.00
23	0.06	0.09	0.13	0.64	0.54	0.10	0.03	0.00	0.00	0.00	0.00	0.00
24	0.05	0.09	0.14	0.58	0.49	0.09	0.02	0.00	0.00	0.00	0.00	0.00
25	0.04	0.10	0.17	0.46	6.9	0.10	0.02	0.00	0.00	0.00	0.00	0.00
26	0.04	0.10	0.16	0.41	5.8	0.08	0.02	0.00	0.00	0.00	0.00	0.00
27	0.04	0.09	0.14	0.40	1.6	0.07	0.02	0.00	0.00	0.00	0.00	0.00
28	0.04	0.09	0.13	0.37	0.76	0.06	0.02	0.00	0.00	0.00	0.00	0.00
29	0.04	0.09	0.25	0.35	0.54	0.06	0.02	0.00	0.00	0.00	0.00	0.00
30	0.06	0.10	0.23	0.35	---	0.06	0.01	0.00	0.00	0.00	0.00	0.00
31	0.06	---	0.17	0.34	---	0.05	---	0.00	---	0.00	0.00	---
TOTAL	1.68	2.98	4.40	369.47	30.59	4.93	1.07	0.00	0.00	0.00	0.00	0.00
MEAN	0.054	0.099	0.14	11.9	1.05	0.16	0.036	0.000	0.000	0.000	0.000	0.000
MAX	0.07	0.15	0.25	237	6.9	0.46	0.05	0.00	0.00	0.00	0.00	0.00
MIN	0.04	0.07	0.10	0.13	0.32	0.05	0.01	0.00	0.00	0.00	0.00	0.00
AC-FT	3.3	5.9	8.7	733	61	9.8	2.1	0.00	0.00	0.00	0.00	0.00

11174000 SAN ANTONIO CREEK NEAR SUNOL, CA—Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1912 - 1963, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	.14	.55	7.60	29.5	45.9	22.9	10.1	4.31	.91	.10	.043	.17
MAX	2.00	5.11	37.7	258	205	74.4	48.6	42.8	5.11	.90	.47	2.84
(WY)	1963	1927	1923	1916	1915	1919	1963	1915	1915	1915	1915	1918
MIN	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
(WY)	1913	1915	1924	1924	1924	1924	1924	1924	1918	1914	1913	1912

SUMMARY STATISTICS

WATER YEARS 1912 - 1963

ANNUAL MEAN	10.3	
HIGHEST ANNUAL MEAN	36.0	1916
LOWEST ANNUAL MEAN	.000	1924
HIGHEST DAILY MEAN	1460	Jan 3 1916
LOWEST DAILY MEAN	.00	Jul 26 1912
ANNUAL SEVEN-DAY MINIMUM	.00	Aug 3 1912
MAXIMUM PEAK FLOW	1970	Jan 31 1963
MAXIMUM PEAK STAGE	7.16	Jan 31 1963
ANNUAL RUNOFF (AC-FT)	7510	
10 PERCENT EXCEEDS	17	
50 PERCENT EXCEEDS	.30	
90 PERCENT EXCEEDS	.00	

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2000 - 2004, BY WATER YEAR (WY)

	2000	2001	2002	2003	2004	2000	2001	2002	2003	2004		
MEAN	0.034	0.079	0.45	2.98	0.72	0.39	0.16	0.093	0.047	0.008	0.002	0.055
MAX	0.054	0.10	1.33	11.9	1.61	0.77	0.37	0.16	0.092	0.028	0.005	0.25
(WY)	2004	2002	2003	2004	2000	2003	2003	2003	2003	2003	2001	2003
MIN	0.007	0.025	0.027	0.17	0.16	0.16	0.036	0.000	0.000	0.000	0.000	0.000
(WY)	2000	2000	2000	2000	2002	2004	2004	2004	2001	2001	2000	2000

SUMMARY STATISTICS

FOR 2003 CALENDAR YEAR

FOR 2004 WATER YEAR

WATER YEARS 2000 - 2004

ANNUAL TOTAL	85.21	415.12	
ANNUAL MEAN	0.23	1.13	0.42
HIGHEST ANNUAL MEAN			1.13
LOWEST ANNUAL MEAN			0.15
HIGHEST DAILY MEAN	16	Mar 13	237
LOWEST DAILY MEAN	0.00	Jul 22	0.00
ANNUAL SEVEN-DAY MINIMUM	0.00	Jul 22	0.00
MAXIMUM PEAK FLOW			312
MAXIMUM PEAK STAGE			4.70
ANNUAL RUNOFF (AC-FT)	169		823
10 PERCENT EXCEEDS	0.26	0.40	0.27
50 PERCENT EXCEEDS	0.11	0.05	0.07
90 PERCENT EXCEEDS	0.01	0.00	0.00

11176400 ARROYO VALLE BELOW LANG CANYON, NEAR LIVERMORE, CA

LOCATION.—Lat 37°33'41", long 121°40'58", in NE 1/4 NE 1/4 sec.30, T.4 S., R.3 E., Alameda County, Hydrologic Unit 18050004, on left bank, 100 ft upstream from small left-bank tributary, 1.2 mi downstream from Lang Canyon, and 9.5 mi southeast of Livermore.

DRAINAGE AREA.—130 mi².

PERIOD OF RECORD.—October 1963 to current year. Prior to October 1974, published as "above Lang Canyon, near Livermore."

WATER TEMPERATURE: Water years 1974–79.

SEDIMENT DATA: Water years 1974–79.

GAGE.—Water-stage recorder. Concrete control since June 19, 1975. Elevation of gage is 750 ft above NGVD of 1929, from topographic map. Prior to June 19, 1975, at site 1.4 mi upstream at different datum.

REMARKS.—Records good except for flows below 5 ft³/s, which are poor. No regulation or diversion upstream from station. See schematic diagram of Alameda Creek Basin.

EXTREMES FOR PERIOD OF RECORD.—Maximum discharge, 8,790 ft³/s, Feb. 17, 1986, gage height, 7.36 ft, from rating curve extended above 1,000 ft³/s, on basis of slope-area measurements at gage heights 4.13, 5.40, and 7.36 ft; no flow at times in most years.

EXTREMES FOR CURRENT YEAR.—Peak discharges greater than base discharge of 500 ft³/s, or maximum:

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Jan. 1	1530	1,300	2.81	Feb. 25	2000	2,370	3.53

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.00	0.00	0.00	425	5.1	88	6.5	1.4	0.08	0.00	0.00	0.00
2	0.00	0.00	0.00	299	12	76	5.9	1.4	0.06	0.00	0.00	0.00
3	0.00	0.00	0.00	104	44	55	5.5	1.3	0.00	0.00	0.00	0.00
4	0.00	0.00	0.00	56	41	43	5.3	1.3	0.00	0.00	0.00	0.00
5	0.00	0.00	0.00	37	29	36	5.1	1.1	0.00	0.00	0.00	0.00
6	0.00	0.00	0.08	30	22	32	4.9	1.1	0.00	0.00	0.00	0.00
7	0.00	0.00	0.39	25	18	29	4.9	1.1	0.00	0.00	0.00	0.00
8	0.00	0.00	0.39	22	14	25	4.7	1.1	0.00	0.00	0.00	0.00
9	0.00	0.00	0.27	19	13	23	4.6	1.3	0.00	0.00	0.00	0.00
10	0.00	0.00	2.1	16	12	22	4.3	1.2	0.00	0.00	0.00	0.00
11	0.00	0.00	4.7	14	10	20	4.0	1.3	0.00	0.00	0.00	0.00
12	0.00	0.00	3.1	13	9.8	18	3.9	1.4	0.00	0.00	0.00	0.00
13	0.00	0.00	1.4	12	9.1	17	3.7	1.4	0.00	0.00	0.00	0.00
14	0.00	0.00	10	11	8.4	15	3.7	1.3	0.00	0.00	0.00	0.00
15	0.00	0.00	5.9	11	7.8	14	3.6	1.1	0.00	0.00	0.00	0.00
16	0.00	0.00	1.4	10	19	13	3.6	1.0	0.00	0.00	0.00	0.00
17	0.00	0.00	1.2	9.6	38	13	3.9	0.89	0.00	0.00	0.00	0.00
18	0.00	0.00	1.1	9.1	154	13	4.1	0.80	0.00	0.00	0.00	0.00
19	0.00	0.00	1.2	8.6	109	12	4.4	0.73	0.00	0.00	0.00	0.00
20	0.00	0.00	1.9	8.1	64	12	4.5	0.67	0.00	0.00	0.00	0.00
21	0.00	0.00	4.3	7.3	46	11	4.1	0.59	0.00	0.00	0.00	0.00
22	0.00	0.00	5.9	6.6	41	10	3.6	0.51	0.00	0.00	0.00	0.00
23	0.00	0.00	5.3	6.3	39	9.9	3.3	0.44	0.00	0.00	0.00	0.00
24	0.00	0.00	9.6	7.6	33	9.6	3.2	0.44	0.00	0.00	0.00	0.00
25	0.00	0.00	24	7.1	536	9.9	3.1	0.39	0.00	0.00	0.00	0.00
26	0.00	0.00	24	6.3	1260	12	2.7	0.33	0.00	0.00	0.00	0.00
27	0.00	0.00	11	5.8	443	10	2.2	0.27	0.00	0.00	0.00	0.00
28	0.00	0.00	6.5	5.7	201	9.6	1.8	0.26	0.00	0.00	0.00	0.00
29	0.00	0.00	24	5.5	117	9.0	1.6	0.30	0.00	0.00	0.00	0.00
30	0.00	0.00	106	5.4	---	8.1	1.5	0.20	0.00	0.00	0.00	0.00
31	0.00	---	36	5.1	---	7.1	---	0.15	---	0.00	0.00	---
TOTAL	0.00	0.00	291.73	1208.1	3355.2	682.2	118.2	26.77	0.14	0.00	0.00	0.00
MEAN	0.00	0.00	9.41	39.0	116	22.0	3.94	0.86	0.00	0.00	0.00	0.00
MAX	0.00	0.00	106	425	1260	88	6.5	1.4	0.08	0.00	0.00	0.00
MIN	0.00	0.00	0.00	5.1	5.1	7.1	1.5	0.15	0.00	0.00	0.00	0.00
AC-FT	0.00	0.00	579	2400	6660	1350	234	53	0.3	0.00	0.00	0.00

11176400 ARROYO VALLE BELOW LANG CANYON, NEAR LIVERMORE, CA—Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1964 - 2004, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	0.22	6.48	35.3	111	149	96.5	36.3	9.23	2.78	0.69	0.17	0.10
MAX	3.12	79.2	216	588	986	625	322	71.5	18.9	7.43	3.67	2.00
(WY)	1984	1983	1984	1997	1998	1983	1982	1983	1998	1983	1983	1983
MIN	0.00	0.00	0.00	0.00	0.24	0.82	0.14	0.00	0.00	0.00	0.00	0.00
(WY)	1965	1977	1990	1991	1991	1977	1977	1977	1976	1964	1964	1964

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1964 - 2004	
ANNUAL TOTAL	3454.44		5682.34			
ANNUAL MEAN	9.46		15.5		36.7	
HIGHEST ANNUAL MEAN					174 1983	
LOWEST ANNUAL MEAN					0.24 1977	
HIGHEST DAILY MEAN	215	Jan 1	1260	Feb 26	4920	Feb 3 1998
LOWEST DAILY MEAN	0.00	Jul 2	0.00	Oct 1	0.00	Oct 1 1963
ANNUAL SEVEN-DAY MINIMUM	0.00	Jul 2	0.00	Oct 1	0.00	Oct 1 1963
MAXIMUM PEAK FLOW			2370	Feb 25	8790	Feb 17 1986
MAXIMUM PEAK STAGE			3.53	Feb 25	7.36	Feb 17 1986
ANNUAL RUNOFF (AC-FT)	6850		11270		26600	
10 PERCENT EXCEEDS	25		23		54	
50 PERCENT EXCEEDS	2.1		0.00		1.3	
90 PERCENT EXCEEDS	0.00		0.00		0.00	

11176500 ARROYO VALLE NEAR LIVERMORE, CA

LOCATION.—Lat 37°37'24", long 121°45'28", in Valle de San Jose Grant, Alameda County, Hydrologic Unit 18050004, on right bank, 900 ft downstream from highway bridge, 1.1 mi upstream from Dry Creek, 1.3 mi downstream from Del Valle Dam, 4.1 mi south of Livermore, and 6.9 mi southeast of Pleasanton.

DRAINAGE AREA.—147 mi².

PERIOD OF RECORD.—January 1912 to September 1930, October 1957 to current year. Monthly discharge only for some periods, published in WSP 1315-B. Published as "Arroyo del Valle near Livermore," 1912–29.

CHEMICAL ANALYSES: Water years 1953, 1959–66.

WATER TEMPERATURE: Water years 1960–61, 1963–79.

SEDIMENT DATA: Water years 1963–67.

GAGE.—Water-stage recorder and concrete control. Datum of gage is 510.44 ft above NGVD of 1929. Prior to November 1914, at site 900 ft upstream at different datum. Nov. 1, 1914, to Sept. 30, 1930, at site 300 ft upstream at different datum.

REMARKS.—Records good except for discharges below 3.0 ft³/s, which are poor. Flow regulated by Del Valle Reservoir 1.3 mi upstream beginning in September 1968, capacity, 77,100 acre-ft. Water from Sacramento–San Joaquin Delta imported through South Bay Aqueduct can be pumped into Del Valle Reservoir for storage and later released into the channel above or below the gage for downstream percolation or returned to the South Bay Aqueduct. See schematic diagram of Alameda Creek Basin.

EXTREMES FOR PERIOD OF RECORD.—Maximum discharge, 12,200 ft³/s, Apr. 2, 1958, gage height, 10.91 ft; no flow at times. Maximum discharge since construction of Del Valle Dam in 1968, 2,980 ft³/s, Feb. 4, 1998, gage height, 9.17 ft.

EXTREMES OUTSIDE PERIOD OF RECORD.—Flood of Dec. 23, 1955, reached a stage of 13.9 ft, from floodmarks, discharge, 18,200 ft³/s, on basis of contracted-opening and slope-area measurement of peak flow.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8.0	7.0	0.31	3.9	0.40	0.59	0.20	8.6	7.6	8.7	8.2	4.1
2	8.0	7.0	0.31	2.0	0.76	0.58	0.18	8.6	7.6	8.7	8.2	7.8
3	8.0	7.5	0.31	1.7	0.64	0.52	0.18	8.0	7.7	8.6	8.2	8.0
4	8.2	8.8	0.35	1.9	0.48	0.52	0.19	8.0	7.7	8.6	8.2	8.0
5	8.2	7.3	0.39	1.9	0.45	0.51	0.20	8.1	7.7	8.6	8.4	8.2
6	8.2	3.4	0.40	2.0	0.40	0.46	0.24	8.4	7.7	8.6	8.6	8.2
7	8.2	3.3	0.71	1.9	0.42	0.42	0.30	8.9	7.7	8.6	8.6	9.0
8	8.2	3.4	0.59	1.3	0.40	0.42	0.42	8.9	5.1	8.6	8.6	10
9	8.0	3.4	0.52	1.2	0.40	0.45	0.44	8.8	4.0	7.3	8.6	10
10	7.9	3.2	1.7	1.2	0.40	0.45	0.30	7.8	7.4	8.5	8.6	12
11	7.8	3.1	2.7	1.2	0.40	0.44	0.17	7.6	7.5	8.2	8.6	11
12	7.8	3.1	2.5	1.2	0.38	0.36	0.17	7.2	7.5	8.2	8.5	10
13	7.8	3.1	2.5	1.2	0.35	0.36	7.2	7.1	7.5	8.2	8.4	10
14	9.1	3.1	2.8	0.85	0.35	0.34	7.1	7.0	7.9	8.2	8.5	10
15	10	3.1	1.7	0.52	0.35	0.38	7.3	6.8	8.5	8.2	8.6	10
16	11	3.5	0.42	0.52	0.44	0.44	8.1	6.8	8.9	8.2	8.4	10
17	11	1.4	0.35	0.52	0.49	0.42	8.2	6.8	9.5	8.2	8.3	10
18	12	1.1	0.32	0.49	0.83	0.45	8.2	7.7	9.5	8.2	8.2	10
19	15	0.92	0.32	0.46	0.54	0.42	8.2	8.6	9.5	8.3	8.2	10
20	17	0.92	0.35	0.46	0.56	0.27	8.2	8.6	9.6	8.9	8.2	9.4
21	14	0.82	0.53	0.46	0.58	0.29	8.4	8.6	9.7	9.3	8.2	8.2
22	12	0.75	1.2	0.41	0.58	0.30	8.3	8.6	9.8	9.3	8.2	8.2
23	12	0.71	0.89	0.40	0.62	0.33	8.2	8.6	9.8	9.4	8.2	8.2
24	12	0.46	0.97	0.49	0.65	0.32	8.2	8.6	9.5	9.4	8.2	8.2
25	11	0.33	1.1	0.40	1.9	0.34	8.2	8.6	9.2	9.4	8.2	8.2
26	10	0.31	0.87	0.40	2.0	0.37	8.5	8.1	9.4	9.3	8.2	8.2
27	10	0.31	0.83	0.40	1.0	0.35	8.6	7.7	9.4	9.2	8.2	8.2
28	10	0.31	0.83	0.40	0.84	0.31	8.6	7.7	9.4	9.1	8.2	8.2
29	9.8	0.31	1.4	0.40	0.69	0.27	8.6	7.7	9.3	8.8	8.2	8.2
30	9.2	0.31	1.8	0.40	---	0.25	8.6	7.7	9.0	8.2	8.2	8.2
31	8.2	---	2.5	0.40	---	0.23	---	7.7	---	8.2	5.1	---
TOTAL	307.6	82.26	32.47	30.98	18.30	12.16	149.69	247.9	250.6	267.2	255.2	267.7
MEAN	9.92	2.74	1.05	1.00	0.63	0.39	4.99	8.00	8.35	8.62	8.23	8.92
MAX	17	8.8	2.8	3.9	2.0	0.59	8.6	8.9	9.8	9.4	8.6	12
MIN	7.8	0.31	0.31	0.40	0.35	0.23	0.17	6.8	4.0	7.3	5.1	4.1
AC-FT	610	163	64	61	36	24	297	492	497	530	506	531

11176500 ARROYO VALLE NEAR LIVERMORE, CA—Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1912 - 1968, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	.016	2.63	18.0	87.6	146	51.4	47.2	7.37	1.83	.32	.089	.021
MAX	.15	69.2	125	851	522	280	620	57.8	9.47	2.28	.83	.24
(WY)	1967	1927	1965	1914	1915	1958	1958	1915	1967	1967	1958	1958
MIN	.000	.000	.000	.000	.000	.000	.000	.094	.000	.000	.000	.000
(WY)	1914	1914	1918	1918	1920	1924	1924	1924	1918	1914	1913	1913

SUMMARY STATISTICS

WATER YEARS 1912 - 1968

ANNUAL MEAN	29.6
HIGHEST ANNUAL MEAN	118 1914
LOWEST ANNUAL MEAN	.008 1924
HIGHEST DAILY MEAN	5930 Jan 25 1914
LOWEST DAILY MEAN	.00 Sep 22 1912
ANNUAL SEVEN-DAY MINIMUM	.00 Sep 22 1912
MAXIMUM PEAK FLOW	12200 Apr 2 1958
MAXIMUM PEAK STAGE	10.91 Apr 2 1958
ANNUAL RUNOFF (AC-FT)	21460
10 PERCENT EXCEEDS	35
50 PERCENT EXCEEDS	.20
90 PERCENT EXCEEDS	.00

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1970 - 2004, BY WATER YEAR (WY)

	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004						
MEAN	8.14	7.24	7.64	44.2	99.0	61.4	18.2	5.39	7.97	11.6	10.9	9.30																													
MAX	43.2	39.4	37.6	544	928	653	334	30.8	51.7	46.0	54.3	48.1																													
(WY)	1971	1981	2002	1997	1998	1983	1982	1970	1980	1980	1981	1981																													
MIN	0.17	0.19	0.33	0.35	0.30	0.36	0.22	0.08	0.03	0.00	0.04	0.14																													
(WY)	1987	2000	2001	1990	1991	1994	1990	2001	2001	2001	1999	1999																													

SUMMARY STATISTICS

FOR 2003 CALENDAR YEAR

FOR 2004 WATER YEAR

WATER YEARS 1970 - 2004

ANNUAL TOTAL	3027.77	1922.06	
ANNUAL MEAN	8.30	5.25	23.8
HIGHEST ANNUAL MEAN			131 1983
LOWEST ANNUAL MEAN			0.39 1999
HIGHEST DAILY MEAN	262 Jan 1	17 Oct 20	2370 Mar 3 1983
LOWEST DAILY MEAN	0.27 May 21	0.17 Apr 11	0.00 Jun 25 1983
ANNUAL SEVEN-DAY MINIMUM	0.29 May 18	0.20 Mar 31	0.00 Jun 22 2001
MAXIMUM PEAK FLOW		108 Apr 13	2980 Feb 4 1998
MAXIMUM PEAK STAGE		4.10 Apr 13	9.17 Feb 4 1998
ANNUAL RUNOFF (AC-FT)	6010	3810	17270
10 PERCENT EXCEEDS	9.8	9.4	31
50 PERCENT EXCEEDS	6.1	7.6	1.1
90 PERCENT EXCEEDS	0.35	0.35	0.21

11176900 ARROYO DE LA LAGUNA AT VERONA, CA

LOCATION.—Lat 37°37'36", long 122°52'54", in Valle de San Jose Grant, Alameda County, Hydrologic Unit 18050004, on left bank at Verona Bridge, 0.9 mi downstream of Castlewood Drive bridge, and 2.5 mi southwest of Pleasanton.

DRAINAGE AREA.—403 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.—January 1912 to September 1930, October 1969 to September 1983, October 1987 to September 2003 (published as "near Pleasanton", station 11177000), October 2003 to September 2004.

GAGE.—Water-stage recorder and crest-stage gage. Elevation of gage is 280 ft above NGVD of 1929 from topographic map. January 1912 to September 1917, at site 2.2 mi upstream at different datum. October 1917 to September 1930, at site 1.6 mi downstream at different datum. October 1969 to September 2003, at site 0.8 mi downstream at different datum.

REMARKS.—Records good. Flow partly regulated by Del Valle Reservoir 14 mi upstream, beginning in September 1968, capacity, 77,100 acre-ft. Water imported from Sacramento–San Joaquin Delta (see REMARKS for station 11176500). See schematic diagram of Alameda Creek Basin.

EXTREMES FOR PERIOD OF RECORD.—Maximum discharge, 11,400 ft³/s, Jan. 5, 1982, gage height, 22.61 ft, at site and datum then in use; no flow at times.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	11	27	24	2060	13	86	20	13	13	12	12	12
2	11	15	22	393	473	71	18	15	13	12	12	11
3	12	55	12	139	209	51	17	14	13	12	12	11
4	12	21	16	62	74	43	17	13	13	12	12	10
5	13	13	47	42	50	38	17	13	13	12	12	9.8
6	14	12	79	33	43	35	17	13	13	12	11	9.7
7	11	37	124	50	58	33	17	13	13	12	12	9.1
8	10	215	23	28	37	32	21	13	14	12	13	9.6
9	10	381	16	25	33	31	20	16	15	11	11	9.3
10	9.4	71	262	24	31	30	17	14	13	11	11	9.6
11	9.4	25	194	21	30	31	16	13	13	14	11	12
12	8.1	19	28	20	29	30	15	13	12	13	11	20
13	7.3	16	23	20	29	29	16	13	14	13	12	17
14	8.0	19	379	19	30	27	16	13	12	13	12	17
15	8.1	42	40	19	31	25	16	14	12	11	17	18
16	8.0	26	23	18	235	24	15	17	11	11	14	18
17	8.4	15	18	18	186	23	18	13	11	10	13	17
18	9.8	15	15	17	716	22	16	13	12	10	12	20
19	9.1	13	42	17	119	21	34	12	12	10	11	183
20	10	13	71	18	74	21	21	12	15	11	11	73
21	13	12	74	17	60	21	18	13	13	10	12	22
22	13	11	20	17	80	21	20	14	12	11	13	17
23	13	11	81	17	75	22	17	18	12	10	13	15
24	13	11	178	108	64	20	16	15	12	11	12	15
25	12	10	118	26	1180	119	16	15	12	11	11	14
26	12	10	41	18	1280	69	16	14	12	11	11	17
27	11	10	21	26	443	33	15	14	13	11	11	15
28	13	9.9	16	25	144	29	14	23	12	11	12	14
29	12	10	614	15	83	25	14	20	13	12	13	14
30	11	27	232	17	---	23	14	15	12	11	12	14
31	72	---	55	16	---	22	---	14	---	12	14	---
TOTAL	394.6	1171.9	2908	3345	5909	1107	524	445	380	355	376	653.1
MEAN	12.7	39.1	93.8	108	204	35.7	17.5	14.4	12.7	11.5	12.1	21.8
MAX	72	381	614	2060	1280	119	34	23	15	14	17	183
MIN	7.3	9.9	12	15	13	20	14	12	11	10	11	9.1
AC-FT	783	2320	5770	6630	11720	2200	1040	883	754	704	746	1300

11176900 ARROYO DE LA LAGUNA AT VERONA, CA—Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1912 - 1930, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	1.43	1.96	15.9	174	234	59.5	18.5	8.67	3.52	2.06	1.36	1.19
MAX	9.90	13.4	105	1349	728	207	59.8	74.0	13.9	13.1	8.76	6.98
(WY)	1917	1927	1914	1914	1915	1919	1926	1915	1916	1916	1916	1916
MIN	.000	.000	.000	.000	.84	.53	.000	.000	.000	.000	.000	.000
(WY)	1914	1914	1919	1925	1924	1924	1929	1924	1918	1913	1913	1913

SUMMARY STATISTICS

WATER YEARS 1912 - 1930

ANNUAL MEAN	42.5
HIGHEST ANNUAL MEAN	180 1914
LOWEST ANNUAL MEAN	.69 1913
HIGHEST DAILY MEAN	9810 Jan 25 1914
LOWEST DAILY MEAN	.00 Jun 30 1913
ANNUAL SEVEN-DAY MINIMUM	.00 Jun 30 1913
ANNUAL RUNOFF (AC-FT)	30800
10 PERCENT EXCEEDS	33
50 PERCENT EXCEEDS	.90
90 PERCENT EXCEEDS	.00

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1970 - 2004, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	20.7	38.5	70.2	186	255	176	67.0	27.8	18.9	18.4	17.1	16.4
MAX	42.3	92.3	330	991	2138	1510	517	116	59.9	40.6	43.5	41.1
(WY)	1971	1983	2003	1997	1998	1983	1982	1983	1998	1975	1981	1981
MIN	3.34	2.59	6.46	6.07	12.7	9.39	6.49	4.05	2.88	1.80	2.31	2.28
(WY)	1991	1993	1990	1991	1977	1988	1990	1992	1991	1992	1991	1991

SUMMARY STATISTICS

FOR 2003 CALENDAR YEAR

FOR 2004 WATER YEAR

WATER YEARS 1970 - 2004

ANNUAL TOTAL	15294.4	17568.6	
ANNUAL MEAN	41.9	48.0	75.1
HIGHEST ANNUAL MEAN			339 1983
LOWEST ANNUAL MEAN			11.6 1977
HIGHEST DAILY MEAN	682 Apr 13	2060 Jan 1	5560 Feb 3 1998
LOWEST DAILY MEAN	7.3 Oct 13	7.3 Oct 13	0.33 Jul 11 1990
ANNUAL SEVEN-DAY MINIMUM	8.2 Oct 11	8.2 Oct 11	1.1 Jul 6 1992
MAXIMUM PEAK FLOW		6430 Jan 1	11400 Jan 5 1982
MAXIMUM PEAK STAGE		13.40 Jan 1	22.61 Jan 5 1982
ANNUAL RUNOFF (AC-FT)	30340	34850	54440
10 PERCENT EXCEEDS	74	72	102
50 PERCENT EXCEEDS	15	15	20
90 PERCENT EXCEEDS	10	11	5.4

11176900 ARROYO DE LA LAGUNA AT VERONA, CA—Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.—Water years 1960–1963, November 2003 to September 2004.

CHEMICAL ANALYSES: Water years 1960–1963.

pH: November 26, 2003 to September 2004.

SPECIFIC CONDUCTANCE: November 2003 to September 2004.

WATER TEMPERATURE: Water years 1960–63, November 2003 to September 2004

PERIOD OF DAILY RECORD.—

pH: November 26, 2003 to September 2004.

SPECIFIC CONDUCTANCE: November 26, 2003 to September 2004.

WATER TEMPERATURE: October 1959 to June 1963, November 26, 2003 to September 2004.

INSTRUMENTATION.—Water-quality monitor since November 2003.

REMARKS.—pH records are rated excellent except for Jan. 1–7, Feb. 2–20, and Feb. 25 to Mar. 16, which are rated good. Specific conductance records are rated excellent except for Dec. 14–22 and Mar. 16 to Apr. 13, which are fair. Temperature records are rated excellent. Interruptions in record are due to malfunction of recording and (or) sensing equipment.

EXTREMES FOR PERIOD OF RECORD.—

pH: Maximum recorded, 8.7 standard units, Mar. 12–14, 2004; minimum recorded, 7.3 standard units, Jan. 4, 2004.

SPECIFIC CONDUCTANCE: Maximum recorded, 1,530 microsiemens, Apr. 17, 2004; minimum recorded, 130 microsiemens, Dec. 29, 2003.

WATER TEMPERATURE: Maximum recorded, 29.5°C, July 26, 2004; minimum recorded, 2.8°C, Jan. 12, 13, 17, 1963.

EXTREMES FOR CURRENT YEAR.—

pH: Maximum recorded, 8.7 standard units, Mar. 12–14; minimum recorded, 7.3 standard units, Jan. 4.

SPECIFIC CONDUCTANCE: Maximum recorded, 1,530 microsiemens, Apr. 17; minimum recorded, 130 microsiemens, Dec. 29.

WATER TEMPERATURE: Maximum recorded, 29.5°C, July 26; minimum recorded, 6.4°C, Jan. 4.

PH, WATER, UNFILTERED, FIELD, STANDARD UNITS, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	---	---	---	---	8.0	7.9	8.1	7.7	8.3	8.1	8.2	8.2
2	---	---	---	---	8.0	7.8	7.8	7.8	8.3	7.9	8.2	8.1
3	---	---	---	---	8.0	7.8	7.8	7.5	8.0	7.8	8.2	8.1
4	---	---	---	---	8.2	7.9	7.7	7.3	7.8	7.6	8.2	8.1
5	---	---	---	---	8.2	7.9	8.0	7.6	7.7	7.6	8.2	8.2
6	---	---	---	---	8.0	7.8	8.1	8.0	7.7	7.6	8.3	8.2
7	---	---	---	---	7.9	7.8	8.2	8.0	7.7	7.6	8.3	8.3
8	---	---	---	---	7.9	7.8	8.1	8.0	7.7	7.7	8.3	8.3
9	---	---	---	---	8.0	7.9	8.1	8.0	7.8	7.7	8.4	8.3
10	---	---	---	---	8.1	7.8	8.1	8.1	7.8	7.7	8.5	8.4
11	---	---	---	---	7.9	7.8	8.1	8.1	7.8	7.8	8.5	8.4
12	---	---	---	---	7.9	7.8	8.1	8.1	7.8	7.8	8.7	8.5
13	---	---	---	---	8.0	7.9	8.2	8.1	7.9	7.8	8.7	8.5
14	---	---	---	---	8.1	7.8	8.2	8.1	7.9	7.9	8.7	8.5
15	---	---	---	---	7.8	7.8	8.2	8.1	8.0	7.9	8.6	8.4
16	---	---	---	---	7.9	7.8	8.2	8.1	8.2	8.0	8.4	8.3
17	---	---	---	---	7.9	7.8	8.3	8.2	8.3	8.0	8.3	8.1
18	---	---	---	---	8.0	7.9	8.3	8.2	8.5	8.2	8.3	8.1
19	---	---	---	---	8.0	7.8	8.3	8.2	8.2	8.0	8.3	8.1
20	---	---	---	---	7.9	7.8	8.4	8.2	8.1	8.0	8.2	8.1
21	---	---	---	---	7.9	7.9	8.4	8.2	8.1	8.0	8.2	8.1
22	---	---	---	---	7.9	7.8	8.4	8.2	8.1	8.0	8.2	8.1
23	---	---	---	---	8.0	7.8	8.5	8.3	8.1	8.0	8.2	8.0
24	---	---	---	---	8.0	7.8	8.4	8.0	8.1	8.0	8.2	8.1
25	---	---	---	---	7.9	7.8	8.1	7.9	8.1	7.9	8.2	7.8
26	---	---	8.4	8.2	7.9	7.8	8.1	7.9	8.0	7.9	8.0	7.8
27	---	---	8.4	8.2	7.9	7.9	8.2	8.0	8.1	8.0	7.9	7.8
28	---	---	8.4	8.2	8.0	7.9	8.2	8.0	8.1	8.1	7.9	7.8
29	---	---	8.5	8.2	8.1	7.8	8.1	8.0	8.2	8.1	8.0	7.9
30	---	---	8.4	8.0	7.9	7.8	8.2	8.0	---	---	8.1	7.9
31	---	---	---	---	7.9	7.8	8.2	8.1	---	---	8.1	8.0
MONTH	---	---	---	---	8.2	7.8	8.5	7.3	8.5	7.6	8.7	7.8

11176900 ARROYO DE LA LAGUNA AT VERONA, CA—Continued

PH, WATER, UNFILTERED, FIELD, STANDARD UNITS, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	8.1	8.1	8.3	8.1	8.2	8.0	8.4	8.1	8.4	8.1	8.4	8.1
2	8.1	8.1	8.2	8.1	8.2	7.9	8.4	8.1	8.4	8.1	8.4	8.1
3	8.1	8.1	8.2	8.0	8.2	8.0	8.4	8.1	8.4	8.1	8.4	8.1
4	8.2	8.1	8.3	8.1	8.2	8.0	8.4	8.0	8.4	8.1	8.4	8.1
5	8.2	8.1	8.3	8.1	8.3	7.9	8.4	8.1	8.4	8.1	8.4	8.1
6	8.2	8.1	8.3	8.1	8.3	8.0	8.4	8.0	8.4	8.0	8.4	8.1
7	8.2	8.1	8.3	8.1	8.3	8.0	8.4	8.1	8.4	8.1	8.4	8.1
8	8.2	8.1	8.3	8.1	8.3	8.0	8.4	8.1	8.3	8.1	8.4	8.1
9	8.2	8.1	8.3	8.1	8.3	8.1	8.4	8.1	8.4	8.0	8.4	8.1
10	8.2	8.0	8.3	8.1	8.4	8.1	8.4	8.1	8.4	8.0	8.3	8.1
11	8.2	8.0	8.3	8.1	8.4	8.0	8.4	8.1	8.4	8.0	8.3	8.0
12	8.2	8.0	8.3	8.1	8.4	8.1	8.4	8.1	8.4	8.0	8.2	8.1
13	8.2	8.1	8.3	8.1	8.4	8.1	8.4	8.0	8.4	8.0	8.3	8.1
14	8.2	8.1	8.3	8.1	8.4	8.1	8.4	8.0	8.4	8.1	8.3	8.0
15	8.3	8.1	8.3	8.1	8.4	8.1	8.4	8.1	8.4	8.1	8.3	8.0
16	8.3	8.1	8.3	8.2	8.4	8.0	8.4	8.1	8.4	8.1	8.3	8.1
17	8.3	8.1	8.4	8.1	8.4	8.1	8.4	8.1	8.4	8.1	8.3	8.1
18	8.2	8.1	8.4	8.1	8.4	8.1	8.4	8.1	8.3	8.1	8.3	8.1
19	8.2	7.8	8.4	8.1	8.4	8.1	8.4	8.1	8.4	8.0	8.2	7.6
20	8.1	7.8	8.4	8.1	8.4	8.1	8.4	8.1	8.4	8.1	7.8	7.6
21	8.1	8.0	8.4	8.1	8.4	8.1	8.4	8.1	8.4	8.1	7.7	7.6
22	8.1	8.0	8.4	8.2	8.4	8.1	8.4	8.1	8.4	8.1	7.8	7.7
23	8.2	8.0	8.4	8.2	8.4	8.1	8.4	8.0	8.4	8.1	7.8	7.7
24	8.2	8.0	8.4	8.2	8.4	8.1	8.4	8.0	8.4	8.1	7.9	7.8
25	8.2	8.0	8.4	8.2	8.4	8.1	8.4	8.1	8.4	8.1	8.0	7.9
26	8.2	8.0	8.4	8.2	8.4	8.1	8.4	8.1	8.4	8.1	8.1	8.0
27	8.2	8.0	8.4	8.1	8.4	8.1	8.4	8.0	8.4	8.1	8.1	8.0
28	8.2	8.0	8.3	8.0	8.4	8.1	8.4	8.1	8.4	8.1	8.2	8.0
29	8.2	8.1	8.0	7.9	8.4	8.1	8.4	8.0	8.4	8.1	8.2	8.1
30	8.3	8.1	8.0	7.9	8.4	8.1	8.4	8.0	8.4	8.0	8.3	8.1
31	---	---	8.1	7.9	---	---	8.4	8.0	8.4	8.1	---	---
MONTH	8.3	7.8	8.4	7.9	8.4	7.9	8.4	8.0	8.4	8.0	8.4	7.6

SPECIFIC CONDUCTANCE, WATER, UNFILTERED, MICROSIEMENS PER CENTIMETER AT 25 DEGREES CELSIUS
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	---	---	---	---	892	799	---	---	1130	1110	---	---
2	---	---	---	---	968	845	---	---	1120	137	---	---
3	---	---	---	---	1130	938	---	---	338	236	---	---
4	---	---	---	---	1170	1060	---	---	478	338	---	---
5	---	---	---	---	1090	659	---	---	522	478	---	---
6	---	---	---	---	884	352	---	---	589	522	---	---
7	---	---	---	---	536	245	---	---	589	496	---	---
8	---	---	---	---	828	521	581	529	567	503	---	---
9	---	---	---	---	934	828	635	581	626	567	---	---
10	---	---	---	---	934	181	665	635	659	626	---	---
11	---	---	---	---	495	238	659	632	683	658	---	---
12	---	---	---	---	752	494	712	653	719	683	---	---
13	---	---	---	---	858	752	752	710	727	715	---	---
14	---	---	---	---	862	213	777	750	726	715	---	---
15	---	---	---	---	635	484	797	758	---	---	---	---
16	---	---	---	---	800	635	825	795	---	---	---	---
17	---	---	---	---	910	800	851	825	---	---	1300	1260
18	---	---	---	---	1030	910	876	845	---	---	1340	1280
19	---	---	---	---	1120	729	893	875	---	---	1360	1310
20	---	---	---	---	801	687	928	892	---	---	1380	1340
21	---	---	---	---	791	673	956	924	---	---	1380	1320
22	---	---	---	---	940	729	989	947	---	---	1350	1320
23	---	---	---	---	993	346	1040	989	---	---	1360	1340
24	---	---	---	---	701	205	1020	399	---	---	1380	1360
25	---	---	---	---	481	304	708	609	---	---	1470	300
26	---	---	1410	1340	651	385	870	708	---	---	876	317
27	---	---	1420	1360	743	651	903	818	---	---	1010	852
28	---	---	1400	1360	856	743	913	785	---	---	1090	1010
29	---	---	1390	1360	897	130	976	896	---	---	1170	1060
30	---	---	1390	815	417	224	1070	976	---	---	1240	1170
31	---	---	---	---	535	417	1110	1060	---	---	1280	1230
MONTH	---	---	---	---	1170	130	---	---	---	---	---	---

11176900 ARROYO DE LA LAGUNA AT VERONA, CA—Continued

SPECIFIC CONDUCTANCE, WATER, UNFILTERED, MICROSIEMENS PER CENTIMETER AT 25 DEGREES CELSIUS
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	1300	1280	1360	1340	1240	1210	1280	1260	1300	1270	1340	1270
2	1330	1290	1360	1200	1350	1240	1300	1270	1270	1200	1340	1310
3	1400	1330	1330	1100	1350	1310	1300	1270	1300	1150	1390	1310
4	1420	1390	1370	1250	1340	1310	1300	1260	1310	1250	1460	1370
5	1430	1400	1380	1280	1320	1270	1290	1260	1280	1240	1430	1390
6	1410	1290	1360	1330	1320	1280	1300	1260	1320	1260	1430	1370
7	1420	1390	1380	1340	1310	1290	1300	1280	1300	1260	1390	1350
8	1420	1380	1380	1320	1330	1280	1340	1280	1300	1260	1380	1340
9	1410	1200	1320	1110	1310	1130	1340	1260	1330	1190	1370	1350
10	1300	1200	1330	1080	1200	1160	1270	1240	1320	1240	1380	1340
11	1330	1290	1370	1320	1300	1200	1290	1140	1280	1270	1340	1300
12	1360	1330	1360	1300	1320	1300	1260	1080	1290	1270	1310	1060
13	1370	1240	1370	1330	1310	1170	1280	1100	1290	1240	1200	1030
14	1380	1170	1380	1340	1330	1160	1280	1100	1290	1250	1180	1020
15	1410	1180	1360	1260	1350	1310	1310	1240	1270	1100	1220	1150
16	1410	1140	1350	1110	1380	1340	1330	1280	1290	1100	1300	1210
17	1530	1240	1340	1100	1360	1340	1340	1300	1260	1120	1240	1210
18	1240	1160	1330	1250	1360	1330	1360	1310	1410	1260	1230	1070
19	1230	847	1370	1260	1350	1310	1340	1320	1410	1320	1190	380
20	1360	847	1380	1330	1320	1120	1340	1270	1320	1290	955	598
21	1220	1100	1360	1340	1320	1100	1330	1260	1460	1320	1030	955
22	1170	1100	1360	1310	1330	1280	1350	1280	1420	1300	1090	1030
23	1150	1100	1350	1090	1300	1280	1370	1320	1310	1140	1160	1090
24	1190	1120	1260	1080	1310	1280	1350	1310	1290	1110	1230	1130
25	1240	1190	1300	1260	1310	1280	1330	1300	1280	1240	1250	1190
26	1260	1150	1290	1260	1290	1250	1340	1310	1290	1260	1220	1080
27	1290	1240	1280	1260	1260	1180	1330	1250	1280	1260	1250	1080
28	1320	1270	1270	1190	1280	1160	1300	1250	1280	1270	1250	1070
29	1330	1290	1190	1060	1290	1260	1290	1260	1350	1250	1280	1180
30	1370	1320	1160	1050	1290	1250	1300	1270	1280	1120	1270	1240
31	---	---	1220	1160	---	---	1300	1280	1340	1130	---	---
MONTH	1530	847	1380	1050	1380	1100	1370	1080	1460	1100	1460	380

TEMPERATURE, WATER, DEGREES CELSIUS, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	1	---	---	---	---	13.1	12.0	10.5	9.7	11.2	9.2	13.2
2	---	---	---	---	13.9	12.7	9.8	8.7	10.4	9.7	14.2	10.9
3	---	---	---	---	13.7	11.6	8.9	7.3	11.6	9.2	13.5	11.2
4	---	---	---	---	11.9	10.7	8.2	6.4	11.4	10.6	13.9	10.4
5	---	---	---	---	14.2	11.8	8.2	6.8	11.3	9.6	14.2	11.7
6	---	---	---	---	14.1	12.9	8.6	7.5	11.5	9.7	15.6	12.2
7	---	---	---	---	14.1	13.0	10.3	8.6	11.6	9.9	16.2	13.3
8	---	---	---	---	13.0	9.8	11.3	9.9	11.3	9.3	17.0	14.0
9	---	---	---	---	10.3	9.6	11.5	10.9	11.2	9.0	17.8	14.9
10	---	---	---	---	11.7	9.7	12.4	11.5	11.6	8.7	18.3	15.9
11	---	---	---	---	11.2	10.3	12.6	11.3	11.7	8.7	17.9	15.3
12	---	---	---	---	10.6	9.3	12.5	11.4	12.2	8.8	18.0	15.4
13	---	---	---	---	12.3	10.6	12.0	10.9	11.1	9.3	18.3	15.7
14	---	---	---	---	12.7	10.3	11.1	10.2	11.8	9.3	18.9	16.3
15	---	---	---	---	10.3	8.7	11.6	10.1	13.1	10.2	19.3	16.8
16	---	---	---	---	9.6	8.0	12.0	10.7	13.0	11.6	19.4	16.7
17	---	---	---	---	9.1	7.8	11.7	10.5	14.2	12.2	19.8	16.9
18	---	---	---	---	9.5	7.8	11.7	9.7	14.1	12.6	20.2	17.4
19	---	---	---	---	10.2	8.2	10.6	9.6	12.8	11.3	20.1	17.4
20	---	---	---	---	11.6	9.6	11.1	9.6	12.6	11.2	19.5	16.9
21	---	---	---	---	12.1	11.3	11.1	8.5	12.7	11.3	19.8	17.6
22	---	---	---	---	11.9	10.7	10.5	7.8	13.8	11.8	19.9	17.6
23	---	---	---	---	12.1	10.5	10	7.6	13.2	10.8	19.6	17.1
24	---	---	---	---	12.8	11.2	10.4	8.3	14.3	11.8	19.5	16.9
25	---	---	---	---	12.2	10.1	11.0	9.3	14.1	12.0	17.7	14.3
26	---	---	10.3	7.1	10.1	8.6	10.5	9.4	12.2	10.3	15.4	12.8
27	---	---	10.1	7.1	9.4	7.1	11.6	9.6	11.8	9.7	15.9	14.1
28	---	---	10.2	8.5	7.8	6.8	12.2	10.7	12.8	9.4	17.4	14.5
29	---	---	10.6	9.2	10.1	7.4	11.7	10.6	12.5	9.9	19.0	16.4
30	---	---	12.5	9.9	10.2	9.5	12.7	10.8	---	---	18.5	15.7
31	---	---	---	---	10.5	8.9	12.4	9.6	---	---	17.7	15.1
MONTH	---	---	---	---	14.2	6.8	12.7	6.4	14.3	8.7	20.2	10.4

11176900 ARROYO DE LA LAGUNA AT VERONA, CA—Continued

TEMPERATURE, WATER, DEGREES CELSIUS, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	18.1	14.9	25.0	17.6	26.6	19.5	26.4	20.9	26.8	21.4	26.6	21.0
2	18.5	14.9	26.0	18.5	27.1	20.0	27.0	20.4	24.3	20.9	26.4	20.5
3	19.7	14.9	26.9	19.4	26.7	19.8	27.5	20.8	25.5	19.7	25.0	19.6
4	19.4	15.3	26.4	20.1	26.4	19.4	28.1	21.2	26.8	20.3	25.1	19.2
5	19.2	15.2	25.1	18.9	26.6	19.4	28.8	22.2	26.9	20.7	25.9	19.6
6	19.4	15.5	23.7	18.1	26.8	19.9	28.8	22.3	26.6	20.2	26.6	20.2
7	19.9	15.1	24.3	17.9	25.7	19.6	28.1	22.0	27.6	20.7	26.6	20.4
8	20.0	16.2	24.1	18.3	24.7	18.7	27.5	21.5	28.6	22.5	26.7	20.2
9	20.5	17.9	23.8	18.0	24.1	19.2	26.8	21.3	27.9	21.8	26.1	20.1
10	22.5	18.3	23.1	17.5	25.3	19.7	27.1	21.0	27.7	21.6	25.6	19.7
11	22.4	17.9	22.7	16.7	25.4	18.7	27.0	20.4	28.0	21.4	25.3	19.4
12	22.2	17.4	23.5	16.5	26.0	18.6	27.4	20.4	28.2	22.2	24.4	21.0
13	19.6	16.6	24.4	17.0	26.4	19.2	27.2	20.7	27.7	22.0	24.1	19.7
14	19.1	15.8	24.9	17.6	25.9	19.7	26.9	20.5	27.0	21.9	23.7	19.4
15	20.0	15.8	24.3	18.2	28.1	20.7	27.6	20.3	25.3	21.3	24.1	19.4
16	19.9	15.0	23.2	18.4	28.9	21.6	28.1	21.0	26.6	20.4	24.7	20.6
17	19.1	15.6	23.0	17.6	28.1	21.3	28.1	21.6	27.6	20.8	24.0	20.4
18	17.6	14.9	23.1	17.8	27.3	21.1	28.6	22.1	27.9	22.1	20.4	18.2
19	16.3	14.6	24.0	17.1	27.2	21.1	28.7	22.4	27.3	21.5	18.2	16.0
20	17.9	16.3	24.2	18.1	26.4	21.0	28.5	22.3	27.2	21.3	17.9	15.3
21	20.3	16.7	22.2	18.4	26.6	20.1	28.8	21.8	27.1	21.7	19.3	16.6
22	19.4	16.3	21.4	17.7	26.5	20.4	28.9	22.1	25.1	21.0	20.4	17.3
23	21.1	16.9	21.6	17.3	26.5	19.8	28.8	22.4	25.9	21.2	22.1	17.6
24	22.5	17.4	23.2	17.6	26.6	19.7	28.7	22.6	26.6	21.6	22.8	18.2
25	24.4	18.4	24.0	18.1	26.6	19.7	29.3	22.9	26.7	21.0	23.2	18.5
26	25.5	19.3	25.0	18.7	27.0	20.4	29.5	22.6	26.8	21.1	21.5	18.1
27	26.1	20.2	24.9	19.9	27.2	20.6	29.0	22.8	26.9	20.7	22.2	17.4
28	25.3	19.4	21.2	19.5	27.6	21.0	28.2	22.1	27.3	20.7	21.8	18.1
29	24.6	18.9	22.3	18.6	27.0	21.4	28.0	21.8	27.2	20.9	20.9	17.7
30	24.2	17.6	25.1	18.8	26.7	20.8	28.1	22.0	26.9	20.9	21.2	17.5
31	---	---	25.0	19.5	---	---	27.4	21.9	26.4	20.9	---	---
MONTH	26.1	14.6	26.9	16.5	28.9	18.6	29.5	20.3	28.6	19.7	26.7	15.3

CROSS SECTION ANALYSES, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Time	pH, water, unfltrd field, std units (00400)	Specif. conduc- tance, wat unf uS/cm 25 degC (00095)	Temper- ature, water, deg c (00010)	Loca- tion in X-sect. looking dwnstrm ft from l bank (00009)
DEC					
22...*	1500	7.6	826	11.3	.50
22...*	1501	7.6	826	11.3	1.00
22...*	1502	7.7	826	11.3	1.50
22...*	1503	7.7	827	11.3	2.00
22...*	1504	7.7	827	11.3	2.50
22...*	1505	7.7	827	11.3	3.00
22...*	1506	7.7	827	11.3	3.50
22...*	1507	7.7	831	11.3	4.00
22...*	1508	7.8	826	11.3	38.5
22...*	1509	7.8	826	11.3	39.0
22...*	1510	7.8	826	11.3	39.5
22...*	1511	7.8	826	11.3	40.0
22...*	1512	7.8	827	11.3	40.5
22...*	1513	7.8	827	11.3	41.0
22...*	1514	7.8	827	11.3	41.5
22...*	1515	7.8	834	11.3	42.0
22...*	1516	7.8	835	11.3	42.5
22...*	1517	7.8	835	11.3	43.0
SEP					
10...*	1405	8.3	1380	24.8	.40
10...*	1406	8.3	1380	24.7	2.40
10...*	1407	8.3	1380	24.6	4.40
10...*	1408	8.3	1380	24.6	6.40
10...*	1409	8.3	1380	24.6	8.40
10...*	1410	8.3	1380	24.6	10.4
10...*	1411	8.3	1380	24.6	12.4
10...*	1412	8.3	1380	24.7	14.4
10...*	1413	8.3	1380	24.7	16.4
10...*	1414	8.4	1380	24.8	18.4
10...*	1415	8.4	1380	24.8	20.4

* Instantaneous discharge at time of cross-sectional measurements: Dec. 22, 18 ft³/s; Sept. 10, 9.7 ft³/s.

11179000 ALAMEDA CREEK NEAR NILES, CA

LOCATION.—Lat 37°35'14", long 121°57'35", in NW 1/4 sec.15, T.4 S., R.1 W., Alameda County, Hydrologic Unit 18050004, on right bank, 0.3 mi downstream from railroad bridge, 1.2 mi northeast of Niles, and 8.3 mi downstream from James H. Turner Dam on San Antonio Creek.

DRAINAGE AREA.—633 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.—January 1891 to current year. Monthly discharge only for some periods, published in WSP 1315-B. Published as "at Niles Dam" 1891–1900 and as "at Sunolglen" 1901–21.

REVISED RECORDS.—WSP 1315-B: 1921. WSP 1515: 1951–52, 1956. WSP 1565: 1945. WDR CA-86-2: 1984(M).

GAGE.—Water-stage recorder and concrete control. Datum of gage is 85.65 ft above NGVD of 1929. Prior to 1901, nonrecording gage at site 1 mi upstream at different datum. From 1901 to Sept. 30, 1914, nonrecording gage; Oct. 1, 1914, to Sept. 30, 1916, water-stage recorder at site 4.5 mi upstream at different datum; Oct. 1, 1916, to Dec. 17, 1923, water-stage recorder at site 800 ft upstream at different datum.

REMARKS.—Records good except for estimated discharges, which are fair. Flow regulated since 1916 by Calaveras Reservoir, although dam not completed until 1925, usable capacity, 96,800 acre-ft, most of which is diverted for San Francisco water supply; since February 1965 by San Antonio Reservoir, capacity, 51,000 acre-ft; and since September 1968 by Del Valle Reservoir, 23 mi upstream, capacity, 77,100 acre-ft. Natural flow of stream affected by water imported from Delta–Mendota Canal beginning in 1962. Other diversions from ground-water basin for irrigation of 9,000 acres upstream from station. See schematic diagram of Alameda Creek Basin.

EXTREMES FOR PERIOD OF RECORD.—Maximum discharge, 29,000 ft³/s, Dec. 23, 1955, gage height, 14.9 ft; minimum (water years 1892–1962), no flow at times, minimum daily (water years 1963–96), 0.63 ft³/s, Oct. 7–10, 1984.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	38	73	57	2110	26	e150	34	20	20	13	39	25
2	39	22	56	547	422	133	31	18	18	14	35	33
3	40	68	42	206	294	94	30	19	17	14	34	33
4	40	35	40	94	107	77	29	16	20	15	35	34
5	41	20	69	64	68	67	28	15	15	14	36	37
6	42	17	39	51	57	62	28	16	15	13	36	29
7	39	39	181	60	74	59	27	18	14	13	36	32
8	39	95	42	43	47	56	30	22	14	14	38	30
9	38	404	20	36	41	53	32	25	22	13	35	29
10	37	108	223	36	37	45	29	26	20	18	36	30
11	33	36	207	32	35	46	26	22	18	17	33	33
12	30	25	47	31	33	51	25	23	15	16	34	44
13	31	37	33	32	31	49	24	23	16	15	32	42
14	32	34	339	34	30	47	27	20	16	14	32	39
15	33	63	70	33	28	46	25	20	26	25	37	38
16	34	46	36	32	231	45	27	24	27	34	36	40
17	33	19	28	30	106	43	37	23	28	e40	34	38
18	32	15	23	28	934	42	39	23	28	e45	36	40
19	34	14	21	27	206	41	61	21	27	e49	34	152
20	34	13	92	54	108	41	56	21	30	48	34	120
21	36	12	93	265	101	39	96	20	32	45	35	31
22	39	12	33	69	104	53	100	19	31	34	35	23
23	39	11	70	29	106	59	46	25	32	33	33	19
24	37	11	179	103	85	49	36	24	32	32	35	31
25	38	11	142	46	1210	123	32	18	30	35	34	36
26	38	14	70	28	1660	155	29	18	30	30	37	40
27	36	39	34	30	682	78	28	17	31	27	37	37
28	43	33	27	47	263	68	e26	27	28	37	35	36
29	43	11	474	32	e155	48	e24	29	17	41	36	36
30	41	26	339	29	---	43	e22	22	16	40	33	35
31	100	---	84	31	---	36	---	19	---	40	29	---
TOTAL	1209	1363	3210	4289	7281	1998	1084	653	685	838	1081	1222
MEAN	39.0	45.4	104	138	251	64.5	36.1	21.1	22.8	27.0	34.9	40.7
MAX	100	404	474	2110	1660	155	100	29	32	49	39	152
MIN	30	11	20	27	26	36	22	15	14	13	29	19
AC-FT	2400	2700	6370	8510	14440	3960	2150	1300	1360	1660	2140	2420

e Estimated.

11179000 ALAMEDA CREEK NEAR NILES, CA—Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1925 - 1961, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	2.61	21.0	101	185	322	213	156	18.9	8.19	5.46	3.26	3.14
MAX	36.5	581	1469	2578	2431	1439	2323	95.5	46.1	50.1	47.5	48.9
(WY)	1936	1951	1956	1952	1938	1938	1958	1941	1938	1935	1935	1935
MIN	.000	.000	.000	.22	.71	.17	1.08	.11	.000	.000	.000	.000
(WY)	1925	1926	1931	1949	1948	1931	1929	1934	1931	1929	1925	1925

SUMMARY STATISTICS

WATER YEARS 1925 - 1961

ANNUAL MEAN	85.4
HIGHEST ANNUAL MEAN	401 1952
LOWEST ANNUAL MEAN	.90 1961
HIGHEST DAILY MEAN	23900 Dec 23 1955
LOWEST DAILY MEAN	.00 Oct 1 1924
ANNUAL SEVEN-DAY MINIMUM	.00 Oct 1 1924
MAXIMUM PEAK FLOW	29000 Dec 23 1955
MAXIMUM PEAK STAGE	14.9 Dec 23 1955
ANNUAL RUNOFF (AC-FT)	61830
10 PERCENT EXCEEDS	91
50 PERCENT EXCEEDS	2.7
90 PERCENT EXCEEDS	.00

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1970 - 2004, BY WATER YEAR (WY)

MEAN	30.7	58.5	123	297	468	344	132	59.0	43.6	39.1	38.5	32.9
MAX	78.6	247	513	1975	3715	2725	1163	318	154	62.9	65.9	62.1
(WY)	1992	1984	2003	1997	1998	1983	1982	1983	1973	1981	1972	1981
MIN	9.91	17.2	20.1	28.4	28.9	32.5	18.3	18.6	13.6	10.4	15.8	2.51
(WY)	1979	1996	1979	1985	1977	1977	1991	1971	2001	2001	1995	1984

SUMMARY STATISTICS

FOR 2003 CALENDAR YEAR

FOR 2004 WATER YEAR

WATER YEARS 1970 - 2004

ANNUAL TOTAL	23720	24913	
ANNUAL MEAN	65.0	68.1	137
HIGHEST ANNUAL MEAN			621 1983
LOWEST ANNUAL MEAN			31.5 1977
HIGHEST DAILY MEAN	1140 Apr 13	2110 Jan 1	9770 Feb 3 1998
LOWEST DAILY MEAN	11 Nov 23	11 Nov 23	0.63 Oct 7 1984
ANNUAL SEVEN-DAY MINIMUM	12 Nov 19	12 Nov 19	0.66 Oct 4 1984
MAXIMUM PEAK FLOW		6020 Jan 1	17900 Feb 3 1998
MAXIMUM PEAK STAGE		8.92 Jan 1	14.83 Feb 3 1998
ANNUAL RUNOFF (AC-FT)	47050	49410	99390
10 PERCENT EXCEEDS	108	102	186
50 PERCENT EXCEEDS	35	34	41
90 PERCENT EXCEEDS	25	17	17

11179000 ALAMEDA CREEK NEAR NILES, CA—Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.—January 1891 to current year (storm season only).

CHEMICAL DATA: Water years 1906, 1952–67, 1969, 1975–79.

SPECIFIC CONDUCTANCE: Water years 1956–57, 1959–62, 1976–93.

WATER TEMPERATURE: Water years 1956–73, 1976–78, October 1999 to current year (storm season only).

SEDIMENT DATA: Water years 1957–73, October 1999 to current year (storm season only).

PERIOD OF DAILY RECORD.—

SPECIFIC CONDUCTANCE: July 1956 to July 1957, August 1959 to September 1962, October 1975 to September 1993.

WATER TEMPERATURE: July 1956 to September 1973, October 1975 to September 1978 (storm season only).

SUSPENDED-SEDIMENT DISCHARGE: October 1999 to current year (storm season only).

REMARKS.—Sediment samples were collected on most days where water temperature is published.

EXTREMES FOR PERIOD OF DAILY RECORD.—

SPECIFIC CONDUCTANCE: Maximum recorded, 1,530 microsiemens, Nov. 19, 1977; minimum recorded, 122 microsiemens, Jan. 22, 1983.

WATER TEMPERATURE: Maximum daily recorded, 31.0°C, June 1, 1960; minimum daily, 2.5°C, Dec. 12, 1972.

SEDIMENT CONCENTRATION: Maximum daily, 15,200 mg/L, Dec. 16, 2002; minimum daily, no flow for many days in 1957, 1959–61.

SEDIMENT LOAD: Maximum daily, 331,000 tons, Dec. 16, 2002; minimum daily, 0 ton, many days in 1957, 1959–61.

EXTREMES FOR CURRENT YEAR.—

SEDIMENT CONCENTRATION (storm season only): Maximum daily mean, 4,430 mg/L, Jan. 1; minimum daily mean, 1 mg/L, Nov. 22, 23.

SEDIMENT LOAD (storm season only): Maximum daily mean, 47,600 tons, Jan. 1; minimum daily mean, 0.03 ton, Nov. 23.

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Time	Instan- taneous dis- charge, cfs (00061)	Temper- ature, water, deg C (00010)	Sus- pended sedi- ment concen- tration mg/L (80154)	Sus- pended sedi- ment dis- charge, tons/d (80155)	Suspnd. sedi- ment, falldia dst wat percent <.002mm (70337)	Suspnd. sedi- ment, falldia dst wat percent <.004mm (70338)
NOV							
09...	1155	291	14.0	614	482	--	--
DEC							
07...	0905	164	13.5	133	59	--	--
10...	1520	248	11.0	130	87	--	--
12...	1350	42	10.5	46	5.2	--	--
20...	1115	82	10.5	71	16	--	--
JAN							
09...	1345	36	10.5	6	.58	--	--
27...	1320	30	10.5	3	.24	--	--
FEB							
04...	1210	102	11.0	38	10	--	--
20...	1530	95	12.0	45	12	--	--
25...	1810	2470	13.0	1960	13100	46	47
MAR							
23...	1245	60	17.0	18	2.9	--	--
APR							
26...	1315	28	21.0	6	.45	--	--
Date	Time	Suspnd. sedi- ment, falldia dst wat percent <.008mm (70339)	Suspnd. sedi- ment, falldia dst wat percent <.016mm (70340)	Suspnd. sedi- ment, falldia dst wat percent <.031mm (70341)	Suspnd. sedi- ment, falldia diameter percent <.063mm (70331)	Suspnd. sedi- ment, falldia diameter percent <.125mm (70332)	Suspnd. sedi- ment, falldia diameter percent <.25mm (70333)
NOV							
09...	1155	--	--	--	99	--	--
DEC							
07...	0905	--	--	--	99	99	100
10...	1520	--	--	--	99	100	--
12...	1350	--	--	--	97	99	100
20...	1115	--	--	--	99	--	--
JAN							
09...	1345	--	--	--	82	--	--
27...	1320	--	--	--	86	--	--
FEB							
04...	1210	--	--	--	96	99	100
20...	1530	--	--	--	97	--	--
25...	1810	55	68	79	86	96	100
MAR							
23...	1245	--	--	--	62	--	--
APR							
26...	1315	--	--	--	61	--	--

11179000 ALAMEDA CREEK NEAR NILES, CA—Continued

PARTICLE-SIZE DISTRIBUTION OF SURFACE BED MATERIAL, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Time	Number of sam-pling points, count (00063)	Instan-taneous dis-charge, cfs (00061)	Temper-ature, water, deg C (00010)	Bed sedi-ment, dry svd sve dia percent <.063mm (80164)	Bed sedi-ment, dry svd sve dia percent <.125mm (80165)	Bed sedi-ment, dry svd sve dia percent <.25mm (80166)	Bed sedi-ment, dry svd sve dia percent <.5 mm (80167)	Bed sedi-ment, dry svd sve dia percent <1 mm (80168)
APR									
30...	1110	1	24	17.5	17	35	54	70	87
30...	1115	1	24	17.5	<1	1	3	6	12
30...	1120	1	24	17.5	<1	1	4	14	26
30...	1125	1	24	17.5	<1	1	4	17	29
30...	1130	1	24	17.5	10	33	67	87	93

Date	Time	Bed sedi-ment, dry svd sve dia percent <2 mm (80169)	Bed sedi-ment, dry svd sve dia percent <4 mm (80170)	Bed sedi-ment, dry svd sve dia percent <8 mm (80171)	Bed sedi-ment, dry svd sve dia percent <16 mm (80172)	Bed sedi-ment, dry svd sve dia percent <32 mm (80173)	Bed sedi-ment, dry svd sve dia percent <64 mm (80174)	Bed sedi-ment, dry svd sve dia percent <128 mm (80175)
APR								
30...	1110	98	100	--	--	--	--	--
30...	1115	18	24	31	42	67	75	100
30...	1120	40	51	67	89	100	--	--
30...	1125	38	50	67	87	100	--	--
30...	1130	96	99	100	--	--	--	--

TEMPERATURE, WATER, DEGREES CELSIUS, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAILY INSTANTANEOUS VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	14.5	11.5	---	---	11.0	---	16.5	24.5	---	---	---
2	---	---	---	---	---	---	---	---	---	---	---	---
3	18.5	---	---	---	10.0	---	---	---	---	---	---	---
4	17.5	---	---	---	11.0	---	14.0	---	---	---	---	---
5	---	---	11.5	---	---	---	---	---	---	---	---	---
6	---	---	---	---	---	---	---	---	---	---	---	---
7	---	14.0	13.5	---	---	17.0	---	---	---	---	---	---
8	---	---	---	---	9.0	---	---	---	---	---	---	---
9	---	14.0	---	10.5	---	---	---	---	---	25.5	---	---
10	---	---	11.0	---	---	---	16.5	---	---	---	---	---
11	---	---	---	10.5	---	---	---	---	---	---	---	---
12	19.0	---	10.5	---	---	---	---	---	---	---	---	---
13	---	---	11.5	---	---	---	---	---	---	---	---	---
14	---	---	---	---	9.5	15.0	---	---	---	---	---	---
15	---	13.5	---	---	---	---	---	---	---	---	---	---
16	---	---	---	---	11.5	---	---	---	---	---	---	---
17	19.0	---	---	---	12.5	---	17.5	---	---	---	---	---
18	18.5	13.0	---	---	13.0	---	---	---	---	---	---	---
19	---	---	---	---	11.5	---	14.0	---	---	---	---	---
20	18.5	---	10.5	---	12.0	18.0	---	---	---	---	---	---
21	---	---	---	---	12.0	---	---	---	---	---	---	---
22	---	---	---	---	---	---	---	---	---	---	---	---
23	---	---	---	---	---	17.0	---	---	---	---	---	---
24	18.5	---	12.0	---	---	---	16.0	---	---	---	---	---
25	---	---	---	9.0	12.5	---	---	---	---	---	---	---
26	15.5	---	8.5	---	10.5	13.5	21.0	---	---	---	---	---
27	---	13.0	---	10.5	---	14.5	---	---	---	---	---	---
28	---	---	---	---	10.0	---	---	---	---	24.0	---	---
29	---	---	---	---	---	---	---	---	---	---	---	---
30	---	11.0	---	---	---	---	17.5	---	---	---	---	---
31	15.5	---	10.0	10.0	---	14.0	---	---	---	---	---	---

< Actual value is known to be less than value shown.

ALAMEDA CREEK BASIN

11179000 ALAMEDA CREEK NEAR NILES, CA—Continued

SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY), WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAY	MEAN	MEAN	SEDIMENT	MEAN	MEAN	SEDIMENT	MEAN	MEAN	SEDIMENT
	DISCHARGE (CFS)	CONCEN- TRATION (MG/L)	DISCHARGE (TONS/DAY)	DISCHARGE (CFS)	CONCEN- TRATION (MG/L)	DISCHARGE (TONS/DAY)	DISCHARGE (CFS)	CONCEN- TRATION (MG/L)	DISCHARGE (TONS/DAY)
	OCTOBER			NOVEMBER			DECEMBER		
1	38	6	0.61	73	51	14	57	26	4.1
2	39	6	0.62	22	7	0.42	56	24	3.6
3	40	6	0.65	68	48	13	42	12	1.3
4	40	6	0.65	35	16	1.7	40	9	0.93
5	41	6	0.67	20	6	0.34	69	17	3.6
6	42	7	0.77	17	5	0.21	39	8	1.1
7	39	6	0.64	39	14	2.0	181	170	127
8	39	6	0.62	95	332	1100	42	16	1.9
9	38	5	0.55	404	1160	1990	20	5	0.29
10	37	6	0.56	108	141	62	223	240	306
11	33	5	0.44	36	23	2.3	207	576	544
12	30	4	0.33	25	14	0.95	47	57	7.9
13	31	4	0.33	37	23	2.3	33	25	2.2
14	32	4	0.36	34	21	1.9	339	1280	2850
15	33	5	0.45	63	28	5.0	70	87	19
16	34	4	0.37	46	13	1.7	36	27	2.6
17	33	4	0.36	19	3	0.19	28	20	1.5
18	32	4	0.35	15	2	0.10	23	15	0.92
19	34	5	0.41	14	2	0.09	21	13	0.72
20	34	4	0.37	13	2	0.07	92	110	36
21	36	5	0.45	12	2	0.07	93	94	28
22	39	6	0.62	12	1	0.05	33	19	1.8
23	39	6	0.68	11	1	0.03	70	71	25
24	37	6	0.58	11	2	0.06	179	450	423
25	38	8	0.86	11	2	0.06	142	290	130
26	38	9	0.92	14	2	0.15	70	86	20
27	36	8	0.80	39	13	1.3	34	19	1.8
28	43	12	1.4	33	15	1.3	27	11	0.82
29	43	12	1.4	11	10	0.30	474	1050	3810
30	41	11	1.2	26	16	1.7	339	507	745
31	100	94	55	---	---	---	84	69	17
TOTAL	1209	---	74.02	1363	---	3203.29	3210	---	9117.08
	JANUARY			FEBRUARY			MARCH		
1	2110	4430	47600	26	4	0.31	e150	e39	e16
2	547	745	1560	422	684	2170	133	30	11
3	206	81	56	294	227	203	94	18	4.5
4	94	23	6.0	107	45	14	77	14	2.9
5	64	13	2.4	68	20	3.8	67	11	2.0
6	51	10	1.4	57	16	2.5	62	10	1.6
7	60	13	2.3	74	22	5.0	59	8	1.3
8	43	9	1.0	47	8	1.1	56	8	1.2
9	36	6	0.60	41	6	0.71	53	8	1.1
10	36	7	0.68	37	6	0.56	45	8	0.93
11	32	6	0.53	35	5	0.49	46	8	1.0
12	31	6	0.50	33	5	0.43	51	9	1.2
13	32	6	0.56	31	4	0.35	49	9	1.2
14	34	7	0.66	30	4	0.32	47	8	1.0
15	33	7	0.62	28	3	0.26	46	9	1.2
16	32	6	0.53	231	782	848	45	11	1.3
17	30	6	0.46	106	234	142	43	11	1.3
18	28	5	0.38	934	2990	9810	42	12	1.3
19	27	5	0.36	206	288	187	41	12	1.3
20	54	29	18	108	60	18	41	12	1.3
21	265	243	188	101	66	20	39	12	1.3
22	69	42	9.2	104	66	20	53	16	2.3
23	29	13	1.0	106	68	20	59	17	2.7
24	103	79	34	85	52	13	49	14	1.9
25	46	20	2.9	1210	2330	18100	123	95	120
26	28	4	0.34	1660	920	4260	155	86	50
27	30	3	0.28	682	358	733	78	19	4.0
28	47	12	1.6	263	116	86	68	18	3.3
29	32	6	0.55	e155	e47	e21	48	18	2.4
30	29	6	0.45	---	---	---	43	19	2.1
31	31	6	0.51	---	---	---	36	19	1.9
TOTAL	4289	---	49491.81	7281	---	36680.83	1998	---	246.53

e Estimated.

11179000 ALAMEDA CREEK NEAR NILES, CA—Continued

SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY), WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
APRIL			
1	34	18	1.7
2	31	16	1.3
3	30	14	1.2
4	29	14	1.1
5	28	14	1.1
6	28	13	0.99
7	27	11	0.82
8	30	11	0.86
9	32	10	0.86
10	29	8	0.62
11	26	7	0.49
12	25	6	0.43
13	24	7	0.43
14	27	8	0.55
15	25	7	0.49
16	27	7	0.55
17	37	9	0.97
18	39	6	0.67
19	61	11	2.0
20	56	9	1.4
21	96	21	5.6
22	100	23	6.4
23	46	9	1.2
24	36	6	0.62
25	32	6	0.51
26	29	6	0.48
27	28	6	0.45
28	e26	e5	e0.36
29	e24	e5	e0.32
30	e22	e5	e0.28
31	---	---	---
TOTAL	1084	---	34.75
PERIOD	20434		98848.31

e Estimated.

11180500 DRY CREEK AT UNION CITY, CA

LOCATION.—Lat 37°36'22", long 122°01'22", in Arroyo de la Alameda Grant, Alameda County, Hydrologic Unit 18050004, on right bank, 900 ft downstream from bridge, on State Highway 238, in Decoto District in Union City, and 1.7 mi upstream from mouth.

DRAINAGE AREA.—9.39 mi².

PERIOD OF RECORD.—October 1916 to September 1919 (published as "near Decoto"), April 1959 to current year.

REVISED RECORDS.—WSP 2129: 1962(M), 1963(P), 1965(P). WDR CA-76-2: Drainage area.

GAGE.—Water-stage recorder and concrete control. Elevation of gage is 85.12 ft above NGVD of 1929. Prior to Apr. 1, 1959, at site 1.4 mi downstream at different datum.

REMARKS.—Records good. No regulation or diversion upstream from station. See schematic diagram of Alameda Creek Basin.

EXTREMES FOR PERIOD OF RECORD.—Maximum discharge, 1,680 ft³/s, Jan. 9, 1995, gage height, 5.32 ft, from rating curve extended above 600 ft³/s, on basis of slope-area measurement of peak flow; no flow for many days each year.

EXTREMES FOR CURRENT YEAR.—Peak discharges greater than base discharge of 90 ft³/s, or maximum:

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Jan. 1	1315	441	3.67	Feb. 25	1230	378	3.53
Feb. 18	0630	101	2.64				

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.00	0.00	0.00	84	0.04	8.2	0.06	0.00	e0.00	0.00	0.00	0.00
2	0.00	0.00	0.00	30	5.3	6.6	0.02	0.00	e0.00	0.00	0.00	0.00
3	0.00	0.02	0.00	17	13	4.5	0.00	0.00	0.00	0.00	0.00	0.00
4	0.00	0.00	0.00	8.4	7.5	3.8	0.00	e0.00	0.00	0.00	0.00	0.00
5	0.00	0.00	0.00	5.4	4.5	3.0	0.00	e0.00	0.00	0.00	0.00	0.00
6	0.00	0.00	0.14	3.9	3.1	2.6	0.00	e0.00	0.00	0.00	0.00	0.00
7	0.00	0.00	0.00	3.7	3.4	2.3	0.00	e0.00	0.00	0.00	0.00	0.00
8	0.00	0.19	0.00	2.2	2.4	2.0	0.00	e0.00	0.00	0.00	0.00	0.00
9	0.00	0.01	0.00	1.4	1.8	1.8	0.00	e0.00	0.00	0.00	0.00	0.00
10	0.00	0.00	0.12	1.1	1.3	1.5	0.00	e0.00	0.00	0.00	0.00	0.00
11	0.00	0.00	0.01	0.86	1.1	1.2	0.00	e0.00	0.00	0.00	0.00	0.00
12	0.00	0.00	0.00	0.53	0.91	1.1	0.00	e0.00	0.00	0.00	0.00	0.00
13	0.00	0.00	0.00	0.38	0.72	0.95	0.00	e0.00	0.00	0.00	0.00	0.00
14	0.00	0.00	0.12	0.32	0.63	0.78	0.00	e0.00	0.00	0.00	0.00	0.00
15	0.00	0.00	0.00	0.33	0.53	0.65	0.00	e0.00	0.00	0.00	0.00	0.00
16	0.00	0.00	0.00	0.34	4.0	0.52	0.00	e0.00	0.00	0.00	0.00	0.00
17	0.00	0.00	0.00	0.28	3.1	0.43	0.00	e0.00	0.00	0.00	0.00	0.00
18	0.00	0.00	0.00	0.17	36	0.40	0.00	e0.00	0.00	0.00	0.00	0.00
19	0.00	0.00	0.02	0.15	12	0.33	0.00	e0.00	0.00	0.00	0.00	0.03
20	0.00	0.00	0.00	0.12	7.6	0.25	0.00	e0.00	0.00	0.00	0.00	0.00
21	0.00	0.00	0.02	0.07	5.8	0.23	0.00	e0.00	0.00	0.00	0.00	0.00
22	0.00	0.00	0.00	0.08	5.6	0.30	0.00	e0.00	0.00	0.00	0.00	0.00
23	0.00	0.00	0.00	0.07	3.9	0.32	0.00	e0.00	0.00	0.00	0.00	0.00
24	0.00	0.00	0.10	0.35	4.8	0.20	0.00	e0.00	0.00	0.00	0.00	0.00
25	0.00	0.00	0.94	0.23	81	0.77	0.00	e0.00	0.00	0.00	0.00	0.00
26	0.00	0.00	0.62	0.11	51	1.2	0.00	e0.00	0.00	0.00	0.00	0.00
27	0.00	0.00	0.10	0.08	23	0.42	0.00	e0.00	0.00	0.00	0.00	0.00
28	0.00	0.00	0.00	0.08	13	0.30	0.00	e0.00	0.00	0.00	0.00	0.00
29	0.00	0.00	7.5	0.08	8.5	0.18	0.00	e0.00	0.00	0.00	0.00	0.00
30	0.00	0.00	15	0.09	---	0.13	0.00	e0.00	0.00	0.00	0.00	0.00
31	0.00	---	4.8	0.09	---	0.11	---	e0.00	---	0.00	0.00	---
TOTAL	0.00	0.22	29.49	161.91	305.53	47.07	0.08	0.00	0.00	0.00	0.00	0.03
MEAN	0.00	0.01	0.95	5.22	10.5	1.52	0.00	0.00	0.00	0.00	0.00	0.00
MAX	0.00	0.19	15	84	81	8.2	0.06	0.00	0.00	0.00	0.00	0.03
MIN	0.00	0.00	0.00	0.07	0.04	0.11	0.00	0.00	0.00	0.00	0.00	0.00
AC-FT	0.00	0.4	58	321	606	93	0.2	0.00	0.00	0.00	0.00	0.06

e Estimated.

11180500 DRY CREEK AT UNION CITY, CA—Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1917 - 2004, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	0.14	0.51	2.44	8.03	10.1	6.51	2.83	0.64	0.17	0.03	0.01	0.00
MAX	6.31	11.3	21.0	33.8	70.1	58.2	20.1	6.45	2.87	0.82	0.51	0.10
(WY)	1963	1984	1974	1997	1998	1983	1982	1983	1983	1983	1983	1983
MIN	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
(WY)	1917	1917	1918	1918	1918	1972	1917	1917	1917	1917	1917	1917

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1917 - 2004	
ANNUAL TOTAL	264.48		544.33			
ANNUAL MEAN	0.72		1.49		2.59	
HIGHEST ANNUAL MEAN					13.0	1983
LOWEST ANNUAL MEAN					0.00	1977
HIGHEST DAILY MEAN	27	Apr 13	84	Jan 1	453	Feb 3 1998
LOWEST DAILY MEAN	0.00	Feb 5	0.00	Oct 1	0.00	Oct 1 1916
ANNUAL SEVEN-DAY MINIMUM	0.00	May 29	0.00	Oct 1	0.00	Oct 1 1916
MAXIMUM PEAK FLOW			441	Jan 1	1680	Jan 9 1995
MAXIMUM PEAK STAGE			3.67	Jan 1	5.32	Jan 9 1995
ANNUAL RUNOFF (AC-FT)	525		1080		1870	
10 PERCENT EXCEEDS	2.0		2.5		4.6	
50 PERCENT EXCEEDS	0.00		0.00		0.00	
90 PERCENT EXCEEDS	0.00		0.00		0.00	

11180700 ALAMEDA CREEK FLOOD CHANNEL AT UNION CITY, CA

LOCATION.—Lat 37°35'09", long 122°02'50", in Potrero de los Cerritos Grant, Alameda County, Hydrologic Unit 18050004, on right bank, 0.1 mi downstream from effluence from Alameda Creek, 0.2 mi upstream from bridge on Interstate 880 (Nimitz Freeway), and 2.0 mi southwest of Decoto District in Union City.

DRAINAGE AREA.—639 mi².

PERIOD OF RECORD.—October 1958 to current year. Published as "Patterson Creek at Union City" 1958–2001.

GAGE.—Water-stage recorder. Datum of gage is 4.13 ft above NGVD of 1929. Prior to Oct. 26, 1966, at site 0.2 mi downstream at same datum.

REMARKS.—Records good except for estimated daily discharges, which are fair. This stream is a tributary of Alameda Creek. Diversion by Alameda County Water District to percolation ponds between station 11179000 and this station; additional percolation to ground water by placing check dams in channel. See schematic diagram of Alameda Creek Basin.

EXTREMES FOR PERIOD OF RECORD.—Maximum discharge, 25,800 ft³/s, Feb. 3, 1998, gage height, 20.43 ft; no flow at times in most years.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.52	117	2.3	192	5.6	23	6.4	2.1	1.2	0.86	0.49	0.44
2	0.52	18	1.6	134	146	30	4.3	2.0	1.2	0.77	0.50	0.39
3	0.52	9.9	0.99	72	235	12	3.6	2.1	1.3	0.72	0.50	0.40
4	0.51	2.2	0.86	e45	117	9.9	2.7	2.2	1.2	0.66	0.50	0.34
5	0.52	0.84	1.3	e27	9.1	11	2.3	2.1	1.3	0.67	0.50	0.41
6	0.52	0.61	1.9	e17	5.3	9.1	3.4	2.1	1.3	0.60	0.49	0.39
7	0.52	11	24	e11	4.3	40	4.2	2.0	1.3	0.62	0.49	0.43
8	0.52	5.1	1.6	e6.2	3.4	68	2.0	1.9	1.3	0.64	0.50	0.33
9	0.52	715	1.3	3.3	2.5	21	1.7	1.8	1.3	0.64	0.51	0.21
10	0.52	311	249	3.2	1.9	9.8	1.7	1.8	1.3	0.69	0.53	0.20
11	0.49	30	74	3.0	1.6	5.7	1.6	1.7	1.5	0.77	0.54	0.20
12	0.48	5.6	9.7	3.0	1.4	5.6	1.6	1.7	1.5	0.78	0.48	0.23
13	0.47	1.9	7.7	3.2	1.4	4.2	1.9	1.7	1.4	0.90	0.48	0.23
14	0.47	1.1	171	3.7	1.3	3.2	2.2	1.6	1.4	0.94	0.46	0.21
15	0.40	2.5	109	3.7	1.3	2.9	2.2	1.6	1.4	0.81	0.46	0.20
16	0.41	1.9	8.7	2.3	1.2	2.8	2.1	1.6	2.4	0.81	0.46	1.3
17	0.39	0.90	3.2	1.8	3.4	3.2	2.0	1.5	3.0	0.80	0.46	0.61
18	0.41	0.78	1.5	1.6	717	4.4	1.9	1.5	0.67	0.81	0.46	0.47
19	0.40	0.76	1.5	2.2	213	2.8	1.9	1.3	0.75	0.99	0.46	0.85
20	0.42	0.70	4.7	2.4	14	2.7	2.1	1.3	0.82	1.0	0.46	349
21	0.42	0.65	7.3	51	9.9	2.8	2.1	1.4	0.86	1.0	0.46	177
22	0.43	0.50	1.1	6.3	9.9	3.2	1.9	1.4	0.94	0.98	0.46	41
23	0.45	0.49	3.5	2.9	9.7	4.3	1.9	1.4	1.0	0.98	0.46	13
24	0.45	0.55	23	4.8	9.5	5.2	1.9	1.3	1.2	0.88	0.46	1.0
25	0.45	0.91	55	1.7	478	12	1.9	1.3	1.2	0.82	0.50	0.54
26	0.44	0.54	12	1.2	643	38	1.9	1.4	1.2	0.72	0.54	0.47
27	0.44	0.43	7.1	1.1	475	5.9	1.9	1.3	1.3	0.73	0.51	0.43
28	0.45	0.43	6.9	1.1	134	4.4	2.1	1.6	0.94	0.66	0.48	0.42
29	0.45	0.44	76	1.1	24	4.6	2.1	1.5	0.87	0.58	0.46	0.40
30	0.38	1.0	167	1.2	---	3.7	2.0	1.2	0.87	0.56	0.46	0.39
31	0.38	---	140	1.1	---	3.5	---	1.2	---	0.50	0.45	---
TOTAL	14.27	1242.73	1174.75	611.1	3289.5	358.9	71.5	50.6	37.92	23.89	14.97	591.49
MEAN	0.46	41.4	37.9	19.7	113	11.6	2.38	1.63	1.26	0.77	0.48	19.7
MAX	0.52	715	249	192	717	68	6.4	2.2	3.0	1.0	0.54	349
MIN	0.38	0.43	0.86	1.1	1.3	2.7	1.6	1.2	0.67	0.50	0.45	0.20
AC-FT	28	2460	2330	1210	6520	712	142	100	75	47	30	1170

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1959 - 2004, BY WATER YEAR (WY)

MEAN	6.11	42.5	99.3	258	382	251	106	28.0	9.28	2.09	0.65	1.58
MAX	53.0	404	757	2073	4196	3007	1091	312	120	27.1	8.73	19.7
(WY)	1963	1984	1997	1997	1998	1983	1982	1983	1973	1995	1970	2004
MIN	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
(WY)	1959	1959	1959	1959	1961	1960	1959	1959	1959	1959	1959	1959

SUMMARY STATISTICS

FOR 2003 CALENDAR YEAR

FOR 2004 WATER YEAR

WATER YEARS 1959 - 2004

ANNUAL TOTAL	11670.63						7481.62					
ANNUAL MEAN	32.0						20.4			97.4		
HIGHEST ANNUAL MEAN										703		1983
LOWEST ANNUAL MEAN										0.00		1961
HIGHEST DAILY MEAN	1490			Apr 13			717	Feb 18	14400	Feb 3	1998	
LOWEST DAILY MEAN	0.08			Jul 23			0.20	Sep 10	0.00	Oct 1	1958	
ANNUAL SEVEN-DAY MINIMUM	0.17			Jul 17			0.21	Sep 9	0.00	Oct 1	1958	
MAXIMUM PEAK FLOW							2930	Feb 25	25800	Feb 3	1998	
MAXIMUM PEAK STAGE							10.90	Feb 25	20.43	Feb 3	1998	
ANNUAL RUNOFF (AC-FT)	23150						14840		70560			
10 PERCENT EXCEEDS	61						23		141			
50 PERCENT EXCEEDS	2.5						1.4		0.11			
90 PERCENT EXCEEDS	0.50						0.45		0.00			

e Estimated.

11180825 SAN LORENZO CREEK ABOVE DON CASTRO RESERVOIR, NEAR CASTRO VALLEY, CA

LOCATION.—Lat 37°41'43", long 122°02'38", in San Lorenzo Grant, Alameda County, Hydrologic Unit 18050004, on right bank at Interstate Highway 580, 0.3 mi southeast of Independent School, and 2.2 mi east of Castro Valley.

DRAINAGE AREA.—18.0 mi².

PERIOD OF RECORD.—October 1980 to September 1994, October 1997 to current year.

WATER TEMPERATURE: October 1980 to September 1994, Water years 1998–2004.

SEDIMENT DATA: December 1980 to September 1994, Water years 1998–2004.

GAGE.—Water-stage recorder. Elevation of gage is 260 ft above NGVD of 1929, from topographic map. October 1980 to September 1994 at site 250 ft downstream at same datum.

REMARKS.—Records fair except for estimated daily discharges, which are poor. Some regulation of low flow by ponds upstream from station.

EXTREMES FOR PERIOD OF RECORD.—Maximum discharge, 3,890 ft³/s, Feb. 3, 1998, gage height, 15.48 ft; no flow for many days in some years.

EXTREMES FOR CURRENT YEAR.—Peak discharges greater than base discharge of 275 ft³/s, or maximum:

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Dec. 14	0415	355	5.38	Feb. 25	1215	656	9.06
Jan. 1	1215	1010	10.55				

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.50	0.38	0.88	192	2.1	25	4.4	1.3	0.79	0.49	0.32	0.24
2	0.61	0.67	0.65	35	22	20	4.8	1.3	0.76	0.48	0.31	0.25
3	0.53	1.7	0.47	15	23	16	5.9	1.2	0.78	0.47	0.32	0.24
4	0.43	0.38	0.68	8.1	8.7	13	5.2	1.2	0.77	0.45	0.30	0.23
5	0.38	0.37	1.1	6.0	4.3	11	4.0	1.2	0.76	0.44	0.29	0.22
6	0.37	0.39	11	5.1	4.2	9.9	2.9	1.1	0.73	0.39	0.29	0.21
7	0.36	0.82	3.2	5.5	3.5	8.7	3.0	1.2	0.71	0.39	0.29	0.22
8	0.34	13	0.68	3.8	2.4	7.5	3.0	1.1	0.73	0.38	0.27	0.21
9	0.33	3.6	1.6	3.5	2.0	6.6	2.8	1.1	0.72	0.38	0.28	0.21
10	0.32	0.59	10	3.4	1.7	5.8	2.6	1.1	0.71	0.37	0.29	0.23
11	0.31	0.50	4.6	3.3	1.6	5.2	2.1	1.1	0.69	0.37	0.56	0.23
12	0.31	0.52	0.73	2.9	1.4	4.8	2.1	1.1	0.69	0.36	0.28	0.23
13	0.30	0.50	1.3	2.9	1.4	4.3	2.2	1.0	0.66	0.37	0.27	0.25
14	0.29	1.4	27	2.9	1.3	4.0	2.4	0.99	0.65	0.38	0.27	0.23
15	0.29	2.2	0.68	2.9	1.1	3.7	2.3	1.0	0.62	0.36	0.30	0.22
16	0.30	0.54	0.55	2.7	13	3.5	2.4	0.96	0.56	0.36	0.29	0.22
17	0.31	0.59	0.51	2.6	e42	3.3	2.3	0.97	0.57	0.35	0.28	0.22
18	0.30	0.48	0.48	2.5	e185	3.1	2.2	0.96	0.56	0.35	0.28	0.24
19	0.30	0.43	2.8	2.5	30	2.9	2.3	0.95	0.56	0.32	0.27	7.1
20	0.29	0.43	0.62	2.5	27	2.7	2.5	0.95	0.57	0.34	0.27	0.37
21	0.30	0.42	2.2	2.3	21	2.6	2.2	0.98	0.58	0.32	0.26	0.30
22	0.31	0.40	0.51	2.2	20	2.6	2.1	1.0	0.58	0.29	0.33	0.27
23	0.32	0.40	4.9	2.3	10	2.6	1.9	0.97	0.56	0.28	0.27	0.26
24	0.30	0.42	16	5.8	12	2.5	1.9	0.90	0.51	0.30	0.28	0.24
25	0.30	0.43	3.3	2.4	148	14	1.8	0.89	0.52	0.30	0.28	0.24
26	0.28	0.43	0.81	2.1	132	12	1.6	0.85	0.50	0.29	0.25	0.26
27	0.28	0.42	0.68	3.6	61	6.9	1.6	0.86	0.50	0.29	0.25	0.27
28	0.29	0.41	0.66	2.4	35	6.7	1.6	1.3	0.48	0.28	0.23	0.28
29	0.29	0.43	58	2.2	27	7.6	1.5	0.85	0.48	0.28	0.24	0.27
30	0.30	1.3	23	3.0	---	6.7	1.4	0.79	0.46	0.30	0.23	0.29
31	4.5	---	4.1	2.2	---	4.5	---	0.79	---	0.29	0.24	---
TOTAL	14.64	34.55	183.69	335.6	843.7	229.7	79.0	31.96	18.76	11.02	8.89	14.25
MEAN	0.47	1.15	5.93	10.8	29.1	7.41	2.63	1.03	0.63	0.36	0.29	0.47
MAX	4.5	13	58	192	185	25	5.9	1.3	0.79	0.49	0.56	7.1
MIN	0.28	0.37	0.47	2.1	1.1	2.5	1.4	0.79	0.46	0.28	0.23	0.21
AC-FT	29	69	364	666	1670	456	157	63	37	22	18	28

e Estimated.

SAN LORENZO CREEK BASIN

11180825 SAN LORENZO CREEK ABOVE DON CASTRO RESERVOIR, NEAR CASTRO VALLEY, CA—Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1981 - 2004, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	0.81	2.95	8.69	15.3	32.1	15.9	6.98	2.97	1.39	0.56	0.28	0.24
MAX	2.20	16.6	51.9	79.3	194	90.7	42.3	13.0	4.44	2.05	0.78	0.53
(WY)	1992	1984	2003	1993	1998	1983	1982	1983	1998	1983	1998	1986
MIN	0.07	0.12	0.65	0.16	0.65	0.47	0.70	0.19	0.14	0.02	0.00	0.00
(WY)	1989	1993	1990	1991	1989	1990	1990	1991	1990	1989	1988	1988

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1981 - 2004	
ANNUAL TOTAL	1378.82		1805.76			
ANNUAL MEAN	3.78		4.93		7.21	
HIGHEST ANNUAL MEAN					25.8	
LOWEST ANNUAL MEAN					0.70	
HIGHEST DAILY MEAN	110	Apr 13	192	Jan 1	1270	Feb 3 1998
LOWEST DAILY MEAN	0.28	Oct 26	0.21	Sep 6	0.00	Aug 28 1981
ANNUAL SEVEN-DAY MINIMUM	0.29	Oct 24	0.22	Sep 4	0.00	Sep 6 1981
MAXIMUM PEAK FLOW			1010		3890	
MAXIMUM PEAK STAGE			10.55		15.48	
ANNUAL RUNOFF (AC-FT)	2730		3580		5230	
10 PERCENT EXCEEDS	8.3		8.3		12	
50 PERCENT EXCEEDS	1.6		0.76		0.87	
90 PERCENT EXCEEDS	0.33		0.27		0.05	

11180900 CROW CREEK NEAR HAYWARD, CA

LOCATION.—Lat 37°42'18", long 122°02'34", in San Lorenzo Grant, Alameda County, Hydrologic Unit 18050004, on right bank on upstream side of Crow Canyon Road bridge, 0.4 mi east of Canyon High School, 0.8 mi upstream of confluence of Cull Creek, and 2.3 mi northeast of Castro Valley.

DRAINAGE AREA.—10.5 mi².

PERIOD OF RECORD.—October 1997 to current year.

WATER TEMPERATURE: Water years 2000–03 (storm season only).

SEDIMENT DATA: Water years 2000–03 (storm season only).

GAGE.—Water-stage recorder and crest-stage gage. Elevation of gage is 270 ft above NGVD of 1929, from topographic map.

REMARKS.—Records good. No regulation or diversion upstream from station.

EXTREMES FOR PERIOD OF RECORD.—Maximum discharge, 1,990 ft³/s, Feb. 3, 1998, gage height, 13.07 ft, from rating curve extended above 700 ft³/s; minimum daily, 0.01 ft³/s, Oct. 13–15, 2002.

EXTREMES FOR CURRENT YEAR.—Peak discharges greater than base discharge of 350 ft³/s, or maximum:

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Jan. 1	1145	916	9.34	Feb. 25	1130	1,210	10.39
Feb. 18	0500	1,060	9.89				

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.15	0.39	0.51	214	1.7	16	3.1	1.4	0.50	0.49	0.16	0.10
2	0.11	0.71	0.41	28	14	13	2.8	1.3	0.48	0.51	0.17	0.10
3	0.11	0.89	0.36	18	13	8.9	2.8	1.2	0.50	0.53	0.20	0.11
4	0.10	0.43	0.47	13	4.6	9.3	2.8	1.2	0.53	0.62	0.19	0.14
5	0.08	0.38	0.57	8.2	3.1	9.7	2.8	1.2	0.51	0.59	0.18	0.14
6	0.09	0.45	4.8	6.4	3.0	8.6	2.8	1.2	0.52	0.56	0.18	0.13
7	0.09	0.61	1.1	6.1	2.8	7.8	2.7	1.2	0.54	0.54	0.16	0.13
8	0.11	5.4	0.32	4.7	2.2	7.3	2.5	1.1	0.57	0.54	0.15	0.13
9	0.10	1.2	1.1	3.9	2.1	6.8	2.2	1.1	0.56	0.47	0.15	0.14
10	0.11	0.48	3.5	3.9	1.9	6.2	2.2	1.1	0.52	0.47	0.15	0.15
11	0.11	0.42	1.9	3.7	1.8	5.8	2.2	1.1	0.50	0.49	0.16	0.15
12	0.11	0.42	0.51	3.5	1.8	5.6	2.2	1.1	0.48	0.40	0.16	0.17
13	0.11	0.42	0.67	3.0	1.9	5.3	2.2	0.92	0.43	0.39	0.14	0.19
14	0.11	0.60	13	3.0	1.8	5.0	2.2	0.89	0.42	0.31	0.14	0.13
15	0.11	0.75	0.62	2.9	1.7	4.7	2.1	0.90	0.38	0.28	0.15	0.09
16	0.12	0.44	0.50	2.6	8.5	4.3	2.1	0.92	0.31	0.26	0.16	0.09
17	0.12	0.41	0.47	2.8	36	3.9	2.1	0.87	0.29	0.24	0.14	0.10
18	0.12	0.33	0.44	2.3	195	3.8	2.1	0.87	0.35	0.21	0.13	0.11
19	0.12	0.33	0.86	2.1	21	3.6	2.0	0.88	0.47	0.19	0.11	2.3
20	0.12	0.32	0.58	1.9	18	3.5	2.0	0.88	0.50	0.18	0.11	0.15
21	0.12	0.34	0.77	1.9	18	3.5	1.8	0.91	0.59	0.18	0.11	0.10
22	0.12	0.34	0.42	2.0	17	3.5	1.7	0.95	0.57	0.19	0.11	0.10
23	0.11	0.32	1.1	1.9	15	3.4	1.5	0.90	0.57	0.15	0.11	0.10
24	0.11	0.33	4.3	2.8	15	3.2	1.5	0.82	0.53	0.16	0.10	0.11
25	0.11	0.31	1.1	1.8	203	9.0	1.5	0.82	0.51	0.17	0.10	0.16
26	0.14	0.47	0.59	1.8	170	4.5	1.4	0.81	0.47	0.15	0.10	0.11
27	0.12	0.25	0.53	2.3	54	3.5	1.4	0.79	0.52	0.13	0.10	0.12
28	0.12	0.27	0.52	2.0	22	3.3	1.5	0.90	0.46	0.13	0.10	0.12
29	0.13	0.29	46	1.8	17	3.2	1.4	0.60	0.46	0.13	0.10	0.13
30	0.12	0.55	6.2	2.2	---	3.2	1.4	0.56	0.47	0.13	0.10	0.15
31	1.2	---	1.2	1.8	---	3.2	---	0.53	---	0.15	0.09	---
TOTAL	4.60	18.85	95.42	356.3	866.9	182.6	63.0	29.92	14.51	9.94	4.21	5.95
MEAN	0.15	0.63	3.08	11.5	29.9	5.89	2.10	0.97	0.48	0.32	0.14	0.20
MAX	1.2	5.4	46	214	203	16	3.1	1.4	0.59	0.62	0.20	2.3
MIN	0.08	0.25	0.32	1.8	1.7	3.2	1.4	0.53	0.29	0.13	0.09	0.09
AC-FT	9.1	37	189	707	1720	362	125	59	29	20	8.4	12

SAN LORENZO CREEK BASIN

11180900 CROW CREEK NEAR HAYWARD, CA—Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1998 - 2004, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	0.36	1.13	8.34	13.7	37.7	10.4	6.08	2.70	1.18	0.59	0.33	0.29
MAX	0.96	1.69	34.8	50.4	122	21.8	16.0	6.16	3.28	1.58	0.77	0.61
(WY)	2001	1999	2003	1998	1998	1998	1998	1998	1998	1998	1998	1998
MIN	0.04	0.63	0.80	1.81	3.73	2.72	1.18	0.47	0.13	0.09	0.08	0.08
(WY)	2003	2004	2000	2001	2001	2001	2001	2001	2001	2001	2001	2001

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR	FOR 2004 WATER YEAR	WATER YEARS 1998 - 2004
ANNUAL TOTAL	936.65	1652.20	
ANNUAL MEAN	2.57	4.51	6.72
HIGHEST ANNUAL MEAN			18.2 1998
LOWEST ANNUAL MEAN			1.11 2001
HIGHEST DAILY MEAN	57 Apr 13	214 Jan 1	465 Feb 3 1998
LOWEST DAILY MEAN	0.04 Aug 23	0.08 Oct 5	0.01 Oct 13 2002
ANNUAL SEVEN-DAY MINIMUM	0.04 Aug 23	0.10 Oct 3	0.02 Oct 13 2002
MAXIMUM PEAK FLOW		1210 Feb 25	1990 Feb 3 1998
MAXIMUM PEAK STAGE		10.39 Feb 25	13.07 Feb 3 1998
ANNUAL RUNOFF (AC-FT)	1860	3280	4870
10 PERCENT EXCEEDS	5.1	6.1	12
50 PERCENT EXCEEDS	1.1	0.57	1.0
90 PERCENT EXCEEDS	0.09	0.11	0.11

11180960 CULL CREEK ABOVE CULL CREEK RESERVOIR, NEAR CASTRO VALLEY, CA

LOCATION.—Lat 37°42'55", long 122°03'12", in San Lorenzo (Castro) Grant, Alameda County, Hydrologic Unit 18050004, on left bank, 0.9 mi upstream from Cull Creek Dam, and 1.1 mi northeast of Castro Valley Post Office.

DRAINAGE AREA.—5.79 mi².

PERIOD OF RECORD.—October 1978 to current year.

PRECIPITATION DATA: Water year 1982.

WATER TEMPERATURE: Water years 1979–2003.

SEDIMENT DATA: Water years 1979–2003.

REVISED RECORDS.—WDR CA-80-2: 1979(P).

GAGE.—Water-stage recorder and crest-stage gage. Elevation of gage is 450 ft above NGVD of 1929, from topographic map.

REMARKS.—Records good except for estimated discharges, which are fair. No storage or diversions upstream from station.

EXTREMES FOR PERIOD OF RECORD.—Maximum discharge, 1,690 ft³/s, Jan. 5, 1982, gage height, 8.71 ft; no flow for many days each year.

EXTREMES FOR CURRENT YEAR.—Peak discharges greater than base discharge of 200 ft³/s, or maximum:

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Jan. 1	1015	462	3.64	Feb. 25	1130	634	4.36
Feb. 18	0430	478	3.71				

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.00	0.00	0.00	85	0.91	10	1.4	0.45	0.16	0.00	0.00	0.00
2	0.00	0.00	0.00	16	10	8.0	1.3	0.44	0.13	0.00	0.00	0.00
3	0.00	0.00	0.00	8.1	9.9	6.7	1.2	0.42	0.13	0.00	0.00	0.00
4	0.00	0.00	0.00	4.6	4.7	6.0	1.2	0.42	0.13	0.00	0.00	0.00
5	0.00	0.00	0.00	3.5	3.3	5.4	1.2	0.42	0.12	0.00	0.00	0.00
6	0.00	0.00	0.02	2.7	2.8	4.9	1.2	0.41	0.11	0.00	0.00	0.00
7	0.00	0.00	0.04	2.7	2.9	4.5	1.1	0.40	0.09	0.00	0.00	0.00
8	0.00	0.00	0.00	2.0	2.3	4.2	1.1	0.39	0.07	0.00	0.00	0.00
9	0.00	0.00	0.00	1.9	2.0	3.9	1.0	0.39	0.07	0.00	0.00	0.00
10	0.00	0.00	0.93	1.8	1.8	3.6	0.96	0.37	0.07	0.00	0.00	0.00
11	0.00	0.00	0.51	1.6	1.8	3.4	0.93	0.34	0.08	0.00	0.00	0.00
12	0.00	0.00	0.01	1.4	1.7	3.2	0.92	0.33	0.07	0.00	0.00	0.00
13	0.00	0.00	0.02	1.4	1.6	3.0	0.91	0.32	0.05	0.00	0.00	0.00
14	0.00	0.00	1.1	1.3	1.5	2.8	0.91	0.31	0.05	0.00	0.00	0.00
15	0.00	e0.00	0.03	1.3	1.5	2.6	0.87	0.32	0.03	0.00	0.00	0.00
16	0.00	e0.00	0.01	1.3	8.2	2.5	0.84	0.31	0.02	0.00	0.00	0.00
17	0.00	e0.00	0.01	1.2	20	2.4	0.83	0.31	0.01	0.00	0.00	0.00
18	0.00	e0.00	0.00	1.1	87	2.3	0.79	0.28	0.00	0.00	0.00	0.00
19	0.00	e0.00	0.01	1.1	13	2.1	0.84	0.27	0.00	0.00	0.00	0.01
20	0.00	0.00	e0.02	1.0	9.6	2.0	0.96	0.27	0.01	0.00	0.00	0.00
21	0.00	0.00	e0.01	0.95	7.0	2.0	0.85	0.29	0.03	0.00	0.00	0.00
22	0.00	0.00	e0.00	0.92	7.0	2.0	0.77	0.31	0.02	0.00	0.00	0.00
23	0.00	0.00	0.42	0.93	5.3	1.9	0.70	0.29	0.02	0.00	0.00	0.00
24	0.00	0.00	2.0	1.4	5.4	1.8	0.67	0.25	0.01	0.00	0.00	0.00
25	0.00	0.00	0.42	0.95	97	3.9	0.62	0.24	0.01	0.00	0.00	0.00
26	0.00	0.00	0.20	0.87	78	2.3	0.55	0.21	0.00	0.00	0.00	0.00
27	0.00	0.00	0.15	1.3	36	1.8	0.51	0.21	0.00	0.00	0.00	0.00
28	0.00	0.00	0.14	1.2	21	1.7	0.51	0.29	0.00	0.00	0.00	0.00
29	0.00	0.00	14	0.94	11	1.6	0.47	0.24	0.00	0.00	0.00	0.00
30	0.00	0.00	3.8	1.2	---	1.5	0.45	0.19	0.00	0.00	0.00	0.00
31	0.00	---	0.94	0.95	---	1.4	---	0.18	---	0.00	0.00	---
TOTAL	0.00	0.00	24.79	152.61	454.21	105.4	26.56	9.87	1.49	0.00	0.00	0.01
MEAN	0.00	0.00	0.80	4.92	15.7	3.40	0.89	0.32	0.05	0.00	0.00	0.00
MAX	0.00	0.00	14	85	97	10	1.4	0.45	0.16	0.00	0.00	0.01
MIN	0.00	0.00	0.00	0.87	0.91	1.4	0.45	0.18	0.00	0.00	0.00	0.00
AC-FT	0.00	0.00	49	303	901	209	53	20	3.0	0.00	0.00	0.02

e Estimated.

SAN LORENZO CREEK BASIN

11180960 CULL CREEK ABOVE CULL CREEK RESERVOIR, NEAR CASTRO VALLEY, CA—Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1979 - 2004, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	0.04	0.69	3.09	9.07	13.2	8.37	2.79	0.88	0.27	0.07	0.02	0.01
MAX	0.45	6.00	14.0	43.7	58.9	54.3	16.8	3.56	1.27	0.50	0.13	0.08
(WY)	1983	1984	1984	1997	1998	1983	1982	1983	1998	1998	1998	1983
MIN	0.00	0.00	0.00	0.00	0.04	0.13	0.05	0.02	0.01	0.00	0.00	0.00
(WY)	1979	1987	1990	1991	1991	1988	1990	1988	1988	1981	1979	1979

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1979 - 2004	
ANNUAL TOTAL	386.57		774.94			
ANNUAL MEAN	1.06		2.12		3.16	
HIGHEST ANNUAL MEAN					10.3	1983
LOWEST ANNUAL MEAN					0.05	1990
HIGHEST DAILY MEAN	19	May 3	97	Feb 25	445	Feb 15 1982
LOWEST DAILY MEAN	0.00	Aug 17	0.00	Oct 1	0.00	Oct 1 1978
ANNUAL SEVEN-DAY MINIMUM	0.00	Aug 17	0.00	Oct 1	0.00	Oct 1 1978
MAXIMUM PEAK FLOW			634	Feb 25	1690	Jan 5 1982
MAXIMUM PEAK STAGE			4.36	Feb 25	8.71	Jan 5 1982
ANNUAL RUNOFF (AC-FT)	767		1540		2290	
10 PERCENT EXCEEDS	2.7		3.3		5.8	
50 PERCENT EXCEEDS	0.20		0.02		0.12	
90 PERCENT EXCEEDS	0.00		0.00		0.00	

11181000 SAN LORENZO CREEK AT HAYWARD, CA

LOCATION.—Lat 37°41'08", long 122°03'48", in San Lorenzo Grant, Alameda County, Hydrologic Unit 18050004, on left bank, 300 ft downstream of Center Street Bridge, just outside city limits of Hayward, 0.6 mi downstream from Crow Creek, and 1.0 mi downstream from Don Castro Dam.

DRAINAGE AREA.—37.5 mi².

PERIOD OF RECORD.—October 1939 to September 1940, October 1946 to Apr. 28, 1983, October 1997 to current year. Monthly discharge only for some periods, published in WSP 1315-B.

REVISED RECORDS.—WSP 1315-B: 1947(M), 1949(M). WSP 1345: 1940(M). WSP 1715: 1947.

GAGE.—Water-stage recorder and crest-stage gage. Datum of gage is 133.16 ft above NGVD of 1929. January to September 1940, nonrecording gage on bridge 0.1 mi upstream at present datum.

REMARKS.—Records good except for estimated daily discharges, which are fair. Flow partly regulated since October 1962 by Cull Creek Reservoir, capacity, 310 acre-ft, and since January 1965 by Don Castro Reservoir, 1.0 mi upstream, capacity, 380 acre-ft. A few very small diversions above station for irrigation.

EXTREMES FOR PERIOD OF RECORD.—Maximum discharge, 8,140 ft³/s, Feb. 3, 1998, gage height, 21.85 ft; no flow at times.

EXTREMES FOR CURRENT YEAR.—Peak discharges greater than base discharge of 550 ft³/s, or maximum:

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Jan. 1	1245	2,140	12.35	Feb. 25	1245	1,880	11.73
Feb. 18	0530	1,240	9.99				

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.47	0.86	e2.8	429	5.6	47	9.1	4.1	2.1	1.1	0.68	0.60
2	0.78	0.76	e2.3	e50	40	39	8.1	4.1	2.0	1.2	0.74	0.61
3	0.89	4.0	1.8	e25	39	34	7.9	3.9	1.8	1.3	0.73	0.61
4	0.77	0.75	1.5	e18	18	31	8.0	3.7	1.9	1.2	0.69	0.57
5	0.65	0.64	3.1	e14	e13	28	9.3	3.6	1.9	1.2	0.67	0.63
6	0.66	0.60	13	12	e11	26	8.9	3.3	1.8	1.1	0.63	0.62
7	0.65	1.9	9.3	13	12	23	8.8	3.3	1.7	1.1	0.63	0.63
8	0.56	12	1.6	10	9.9	e22	8.5	3.1	1.7	1.0	0.57	0.52
9	0.48	6.0	2.5	9.1	9.1	e21	e8.2	3.0	1.9	1.0	0.56	0.45
10	0.47	1.2	15	8.7	8.4	20	e7.9	3.1	1.9	1.0	0.60	0.44
11	0.44	0.76	12	8.3	8.1	19	e7.4	3.0	e2.5	1.0	0.74	0.46
12	0.44	0.70	2.0	8.0	8.1	18	e7.0	2.9	e1.9	0.85	0.63	0.49
13	0.45	0.69	3.6	e7.5	8.2	18	6.7	2.7	e1.7	0.92	0.62	0.54
14	0.40	3.6	31	e7.3	7.9	17	6.8	2.7	e1.6	0.73	0.59	0.56
15	0.46	4.3	3.7	7.1	7.5	16	6.4	2.7	1.5	e0.74	0.62	0.53
16	0.62	1.3	2.7	6.8	30	15	6.4	2.8	1.3	e0.70	0.66	0.57
17	0.51	1.2	2.3	6.5	38	15	6.4	2.6	1.2	0.62	0.62	0.72
18	0.46	1.0	2.6	6.3	255	14	6.4	2.6	1.3	0.60	0.55	0.72
19	0.49	1.3	6.5	6.2	35	14	6.7	2.3	1.3	0.57	0.51	5.7
20	0.61	3.6	e35	6.2	25	13	7.1	2.4	1.4	0.62	0.52	1.0
21	0.67	1.7	e6.0	5.9	21	13	6.3	2.5	1.6	0.61	0.49	0.67
22	0.74	1.5	e3.1	5.6	21	13	6.0	2.6	1.5	0.54	0.52	0.59
23	0.74	1.2	6.8	5.8	16	13	5.7	2.4	1.4	0.54	0.59	0.51
24	0.72	1.1	19	13	18	12	5.6	2.2	1.3	0.58	0.56	0.40
25	0.57	1.1	6.7	6.4	333	28	5.3	2.0	1.3	0.63	0.54	0.36
26	0.47	1.2	2.7	5.7	231	18	5.0	2.0	1.2	0.56	0.52	0.42
27	0.51	0.80	2.0	7.6	101	12	4.6	1.9	1.2	0.53	0.46	0.45
28	0.58	0.87	1.8	7.1	61	11	4.6	4.1	1.1	0.56	0.42	0.52
29	0.71	0.90	66	5.8	48	11	4.4	3.2	1.1	0.56	0.39	0.55
30	0.55	3.0	27	8.0	---	10	4.2	2.8	1.1	0.58	0.44	0.52
31	e8.0	---	8.2	6.0	---	11	---	2.4	---	0.60	0.59	---
TOTAL	25.52	60.53	303.6	735.9	1438.8	602	203.7	90.0	47.2	24.84	18.08	21.96
MEAN	0.82	2.02	9.79	23.7	49.6	19.4	6.79	2.90	1.57	0.80	0.58	0.73
MAX	8.0	12	66	429	333	47	9.3	4.1	2.5	1.3	0.74	5.7
MIN	0.40	0.60	1.5	5.6	5.6	10	4.2	1.9	1.1	0.53	0.39	0.36
AC-FT	51	120	602	1460	2850	1190	404	179	94	49	36	44

e Estimated.

SAN LORENZO CREEK BASIN

11181000 SAN LORENZO CREEK AT HAYWARD, CA—Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1940 - 2004, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	3.47	3.60	21.1	51.3	53.1	36.0	23.6	5.78	2.31	1.04	0.71	0.63
MAX	107	30.1	184	227	327	267	255	21.3	9.03	5.22	4.58	2.89
(WY)	1963	1951	1956	1952	1998	1983	1958	1967	1967	1982	1980	1968
MIN	0.00	0.00	0.13	0.39	0.73	0.84	0.29	0.12	0.04	0.00	0.00	0.00
(WY)	1947	1949	1949	1949	1948	1972	1977	1976	1977	1961	1947	1947

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR	FOR 2004 WATER YEAR	WATER YEARS 1940 - 2004
ANNUAL TOTAL	2719.07	3572.13	
ANNUAL MEAN	7.45	9.76	15.8
HIGHEST ANNUAL MEAN			56.4
LOWEST ANNUAL MEAN			0.63
HIGHEST DAILY MEAN	98	429	2600
LOWEST DAILY MEAN	0.35	0.36	0.00
ANNUAL SEVEN-DAY MINIMUM	0.40	0.45	0.00
MAXIMUM PEAK FLOW		2140	8140
MAXIMUM PEAK STAGE		12.35	21.85
ANNUAL RUNOFF (AC-FT)	5390	7090	11420
10 PERCENT EXCEEDS	17	18	30
50 PERCENT EXCEEDS	3.6	2.2	1.7
90 PERCENT EXCEEDS	0.47	0.54	0.00

11181008 CASTRO VALLEY CREEK AT HAYWARD, CA

LOCATION.—Lat 37°40'48", long 122°04'46", in San Lorenzo (Castro) Grant, Alameda County, Hydrologic Unit 18050004, on left bank, 500 ft east of Hayward City Hall, 700 ft upstream from mouth, and 700 ft downstream from small left-bank tributary.

DRAINAGE AREA.—5.51 mi².

PERIOD OF RECORD.—October 1971 to current year (seasonal records only, water years 1975–77).

GAGE.—Water-stage recorder and crest-stage gage. Elevation of gage is 100 ft above NGVD of 1929, from topographic map.

REMARKS.—Records good. No regulation or diversion upstream from station.

EXTREMES FOR PERIOD OF RECORD.—Maximum discharge, 1,550 ft³/s, Feb. 2, 1998, gage height, 9.12 ft, from rating curve extended above 61 ft³/s, on basis of slope-area measurement at gage height 3.92 ft, and step-backwater computation to gage height 10.40 ft; no flow at times.

EXTREMES FOR CURRENT YEAR.—Peak discharges greater than base discharge of 575 ft³/s, or maximum:

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Dec. 14	0330	958	7.17	Feb. 25	1015	1,020	7.38
Jan. 1	1145	587	5.65	Mar. 25	1720	613	5.77
Feb. 18	0320	891	6.92				

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.49	0.50	4.9	103	0.91	5.2	0.88	0.62	0.65	0.46	0.39	0.43
2	0.50	4.5	0.90	11	33	2.4	0.95	0.62	0.66	0.44	0.40	0.47
3	0.50	5.6	0.54	3.5	17	2.0	0.86	0.65	0.58	0.46	0.41	0.38
4	0.49	0.51	2.2	2.2	3.4	1.8	0.88	0.62	0.54	0.44	0.50	0.43
5	0.46	0.46	3.2	1.8	1.8	1.6	0.84	0.62	0.53	0.46	0.42	0.42
6	0.46	1.4	27	2.1	2.6	1.5	0.81	0.62	0.52	0.43	0.49	0.42
7	0.46	3.0	6.3	3.0	1.5	1.4	0.79	0.63	0.50	0.45	0.42	0.42
8	0.46	25	0.95	1.4	1.3	1.4	0.81	0.58	0.53	0.41	0.49	0.42
9	0.43	1.7	5.7	1.3	1.2	1.3	0.81	0.58	0.51	0.42	0.48	0.35
10	0.42	0.66	23	1.2	1.1	1.3	0.77	0.57	0.50	0.41	0.44	0.36
11	0.41	0.56	3.1	1.1	1.0	1.2	0.84	0.57	0.47	0.50	0.44	0.33
12	0.42	0.52	1.6	1.0	0.96	1.2	0.75	0.60	0.47	0.47	0.56	0.34
13	0.44	0.49	3.0	0.96	2.0	1.1	0.72	0.58	0.48	0.43	0.42	0.34
14	0.43	2.6	33	0.95	1.1	1.1	0.73	0.59	0.49	0.49	0.41	0.36
15	0.41	7.2	1.4	0.94	1.0	1.1	0.71	0.59	0.52	0.47	0.40	0.41
16	0.42	0.80	1.0	0.91	25	1.1	0.68	0.58	0.50	0.45	0.42	0.35
17	0.43	1.5	0.89	0.85	25	1.0	0.67	0.56	0.48	0.45	0.42	0.24
18	0.41	0.53	0.78	0.81	65	1.0	0.71	0.57	0.47	0.45	0.44	0.25
19	0.46	0.46	7.2	0.80	4.5	0.97	0.73	0.59	0.49	0.45	0.42	9.6
20	0.43	0.44	1.5	0.80	2.8	0.96	1.6	0.58	0.47	0.47	0.42	0.30
21	0.45	0.41	4.6	0.75	2.1	0.96	0.79	0.59	0.50	0.47	0.41	0.25
22	0.94	0.39	0.91	0.76	6.0	0.96	0.71	0.59	0.48	0.53	0.43	0.26
23	0.39	0.38	8.9	0.89	1.8	0.93	0.68	0.59	0.46	0.47	0.44	0.24
24	0.37	0.39	22	9.2	3.9	0.88	0.69	0.60	0.45	0.46	0.46	0.23
25	0.35	0.41	4.6	0.96	117	24	0.68	0.56	0.49	0.44	0.49	0.23
26	0.37	0.38	1.5	0.85	49	1.6	0.67	0.58	0.45	0.53	0.41	0.23
27	0.36	0.37	1.1	3.4	11	1.2	0.65	0.63	0.46	0.44	0.39	0.25
28	0.40	0.38	0.96	0.90	5.0	1.1	0.67	3.0	0.50	0.40	0.53	0.24
29	0.37	0.39	82	0.82	3.4	1.0	0.66	0.62	0.44	0.40	0.40	0.23
30	0.38	6.2	8.9	4.9	---	0.96	0.61	0.61	0.48	0.43	0.39	0.25
31	14	---	2.3	0.96	---	0.92	---	0.62	---	0.37	0.40	---
TOTAL	27.31	68.13	265.93	164.01	391.37	65.14	23.35	20.91	15.07	13.95	13.54	19.03
MEAN	0.88	2.27	8.58	5.29	13.5	2.10	0.78	0.67	0.50	0.45	0.44	0.63
MAX	14	25	82	103	117	24	1.6	3.0	0.66	0.53	0.56	9.6
MIN	0.35	0.37	0.54	0.75	0.91	0.88	0.61	0.56	0.44	0.37	0.39	0.23
AC-FT	54	135	527	325	776	129	46	41	30	28	27	38

SAN LORENZO CREEK BASIN

11181008 CASTRO VALLEY CREEK AT HAYWARD, CA—Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1972 - 2004, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	1.53	4.60	5.97	9.41	10.6	6.95	2.83	1.20	0.57	0.40	0.39	0.50
MAX	4.97	19.0	20.9	29.3	45.6	34.6	12.3	3.23	1.55	1.15	1.50	1.62
(WY)	1976	1974	2003	1998	1998	1983	1974	1990	1995	1974	1983	1983
MIN	0.15	0.24	0.24	0.39	1.06	0.60	0.20	0.30	0.28	0.17	0.14	0.12
(WY)	1978	1996	1990	1991	1977	1988	1977	1992	1980	1991	1980	1980

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1972 - 2004	
ANNUAL TOTAL	1010.95		1087.74			
ANNUAL MEAN	2.77		2.97		3.90	
HIGHEST ANNUAL MEAN					9.14 1998	
LOWEST ANNUAL MEAN					1.51 1972	
HIGHEST DAILY MEAN	82	Dec 29	117	Feb 25	322	Jan 4 1982
LOWEST DAILY MEAN	0.35	Oct 25	0.23	Sep 24	0.00	Oct 11 1977
ANNUAL SEVEN-DAY MINIMUM	0.37	Oct 24	0.24	Sep 23	0.00	Oct 11 1977
MAXIMUM PEAK FLOW			1020	Feb 25	1550	Feb 2 1998
MAXIMUM PEAK STAGE			7.38	Feb 25	9.12	Feb 2 1998
ANNUAL RUNOFF (AC-FT)	2010		2160		2820	
10 PERCENT EXCEEDS	5.6		4.5		6.7	
50 PERCENT EXCEEDS	0.73		0.59		0.50	
90 PERCENT EXCEEDS	0.43		0.39		0.19	

11181040 SAN LORENZO CREEK AT SAN LORENZO, CA

LOCATION.—Lat 37°41'03", long 122°08'20", in San Lorenzo (Soto) Grant, Alameda County, Hydrologic Unit 18050004, on left bank, 400 ft downstream from Washington Avenue Bridge in San Lorenzo, and 1.6 mi upstream from mouth.

DRAINAGE AREA.—44.6 mi².

PERIOD OF RECORD.—October 1967 to September 1978, October 1987 to current year.

WATER TEMPERATURE: Water years 1989–93 (storm season only).

SEDIMENT DATA: Water years 1989–93 (storm season only).

GAGE.—Water-stage recorder and crest-stage gage. Datum of gage is 6.13 ft above NGVD of 1929 (levels by Alameda County Flood Control and Water Conservation District).

REMARKS.—Records fair except for estimated daily discharges, which are poor. Flow partly regulated since October 1962 by Cull Creek Reservoir, capacity, 310 acre-ft, and since January 1965 by Don Castro Reservoir, capacity, 380 acre-ft, 7 mi upstream. A few very small diversions upstream from station.

EXTREMES FOR PERIOD OF RECORD.—Maximum discharge, 10,300 ft³/s, Feb. 3, 1998, gage height, 14.27 ft, from rating curve extended above 1,200 ft³/s; minimum daily, 0.01 ft³/s, several days in June and July 1977.

EXTREMES FOR CURRENT YEAR.—Peak discharges greater than base discharge of 1,500 ft³/s, or maximum:

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Jan. 1	1330	2,370	6.87	Feb. 25	1315	2,700	7.17
Feb. 18	0345	1,580	6.15				

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.7	1.9	15	551	7.3	51	11	3.5	3.6	4.5	2.0	1.1
2	2.0	4.8	7.4	77	115	40	10	4.0	3.6	5.0	2.0	1.3
3	2.2	17	3.5	35	82	32	10	3.2	3.4	5.6	1.8	1.2
4	2.2	1.4	8.1	22	31	28	10	2.9	3.1	5.7	1.6	1.2
5	1.8	0.94	15	18	23	24	10	2.9	2.7	5.4	1.2	1.1
6	1.9	1.4	64	17	21	23	10	2.9	2.6	4.6	1.4	1.1
7	1.8	9.3	23	19	22	22	9.7	2.9	2.4	4.1	1.3	1.0
8	1.8	65	3.8	14	19	21	9.7	3.1	2.2	3.4	e1.2	1.2
9	1.5	18	8.0	13	18	20	9.5	2.9	2.2	2.8	e1.3	1.00
10	1.5	3.8	47	13	17	19	9.4	2.8	2.2	2.5	1.2	0.98
11	1.3	1.7	31	13	17	18	9.0	2.8	3.0	2.6	1.4	1.0
12	1.2	1.5	5.2	12	17	18	8.6	3.1	2.1	2.4	1.7	1.1
13	1.4	1.3	12	10	18	17	8.6	3.2	2.1	2.3	1.4	1.2
14	1.2	14	95	9.9	17	17	9.2	3.2	2.1	2.0	1.3	1.3
15	0.97	23	11	10	17	17	9.4	3.4	2.3	1.7	1.4	1.5
16	1.2	4.1	5.4	9.1	78	17	9.5	3.6	2.1	1.6	1.5	e1.4
17	1.1	3.8	3.6	8.0	85	16	9.7	3.7	1.9	1.5	1.6	1.2
18	1.1	1.8	2.9	7.4	461	16	9.5	4.0	1.9	1.6	1.5	1.3
19	1.0	1.4	15	6.9	57	15	10	3.8	1.8	1.6	1.3	20
20	1.2	1.4	10	7.0	40	15	13	4.0	1.8	1.7	1.3	3.4
21	1.3	1.4	16	6.4	34	16	8.8	4.9	2.1	1.8	1.3	1.5
22	1.9	1.2	3.8	5.7	40	16	7.1	5.2	1.9	1.8	1.2	1.2
23	1.3	1.1	22	6.0	29	16	6.1	5.0	1.8	1.6	1.3	1.3
24	1.2	1.1	60	29	35	15	5.8	4.9	1.9	1.7	1.3	0.93
25	1.1	1.4	19	7.8	582	92	5.2	4.3	1.8	1.8	1.3	0.89
26	1.1	2.0	7.9	6.0	325	23	4.4	4.3	2.0	2.0	1.1	0.95
27	1.1	1.7	4.3	13	136	13	3.8	4.2	2.3	1.9	0.98	1.0
28	1.1	1.2	3.6	10	66	12	3.6	14	2.9	1.9	0.91	1.5
29	1.2	1.5	245	6.8	49	11	4.1	6.0	3.5	2.0	0.75	1.6
30	1.2	16	51	17	---	11	3.3	4.2	4.2	2.0	0.80	1.7
31	33	---	17	8.6	---	11	---	3.8	---	1.9	0.96	---
TOTAL	75.57	206.14	835.5	988.6	2458.3	682	248.0	126.7	73.5	83.0	41.30	57.15
MEAN	2.44	6.87	27.0	31.9	84.8	22.0	8.27	4.09	2.45	2.68	1.33	1.91
MAX	33	65	245	551	582	92	13	14	4.2	5.7	2.0	20
MIN	0.97	0.94	2.9	5.7	7.3	11	3.3	2.8	1.8	1.5	0.75	0.89
AC-FT	150	409	1660	1960	4880	1350	492	251	146	165	82	113

e Estimated.

SAN LORENZO CREEK BASIN

11181040 SAN LORENZO CREEK AT SAN LORENZO, CA—Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1968 - 2004, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	5.34	10.1	27.6	67.1	69.2	41.9	23.5	10.7	4.17	2.02	1.60	1.80
MAX	30.2	38.1	114	259	390	154	108	51.8	17.0	5.99	3.25	4.58
(WY)	1992	1974	2003	1997	1998	1995	1974	2003	1993	1998	1969	1975
MIN	0.23	1.49	1.41	1.14	2.15	1.83	2.07	0.85	0.07	0.64	0.11	0.35
(WY)	1978	1991	1990	1991	1977	1972	1976	1972	1977	1990	1977	1988

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR	FOR 2004 WATER YEAR	WATER YEARS 1968 - 2004
ANNUAL TOTAL	7244.11	5875.76	
ANNUAL MEAN	19.8	16.1	21.9
HIGHEST ANNUAL MEAN			65.6 1998
LOWEST ANNUAL MEAN			2.38 1977
HIGHEST DAILY MEAN	513 May 3	582 Feb 25	2400 Jan 21 1970
LOWEST DAILY MEAN	0.94 Nov 5	0.75 Aug 29	0.01 Jun 12 1977
ANNUAL SEVEN-DAY MINIMUM	1.1 Sep 19	0.94 Aug 26	0.01 Jun 10 1977
MAXIMUM PEAK FLOW		2700 Feb 25	10300 Feb 3 1998
MAXIMUM PEAK STAGE		7.17 Feb 25	14.27 Feb 3 1998
ANNUAL RUNOFF (AC-FT)	14370	11650	15850
10 PERCENT EXCEEDS	34	23	44
50 PERCENT EXCEEDS	6.5	3.7	3.0
90 PERCENT EXCEEDS	1.4	1.2	0.67

380240122255701 SAN PABLO BAY AT PETALUMA RIVER CHANNEL MARKER 1, CA

LOCATION.—Lat 38°02'40", long 122°25'57", unsurveyed, sec.20 T.2 N., R.5 W., [Marin County](#), Hydrologic Unit 18050001, at Coast Guard channel marker 1.

PERIOD OF DAILY RECORD.—October 2003 to September 2004. Unpublished records of Turbidity available in the files of the U.S. Geological Survey.

SPECIFIC CONDUCTANCE: October 2003 to September 2004.

WATER TEMPERATURE: October 2003 to September 2004.

INSTRUMENTATION.—Water-quality monitor since October 2003.

REMARKS.—Interruptions in record were due to malfunction of the sensing and (or) recording instrument and biological interference within the conductivity cell. The probe is set at 4 ft below the water surface at Mean Lower Low Water (MLLW). MLLW is about 8 ft. Daily maximums and minimums sometimes differ from tidal cycle (24.8 hours) maximums and minimums. The conductivity record is rated excellent except for the following periods of sensor drift and fouling: Oct. 28 to Feb. 10, Mar. 23 to Apr. 26, May 6–25, June 5–14, July 2–16, which are rated good; Apr. 27 to May 5, which are rated fair; and Sept. 23–30, which are rated poor. The temperature record is rated excellent.

EXTREMES FOR PERIOD OF DAILY RECORD.—

SPECIFIC CONDUCTANCE: Maximum recorded, 45,800 microsiemens, Oct. 29, 2003; minimum recorded, 4,780 microsiemens, Feb. 27, 2004.

WATER TEMPERATURE: Maximum recorded, 23.0°C, Sept. 5, 7, 8, 2004; minimum recorded, 8.5°C, Jan. 4–6, 2004.

EXTREMES FOR CURRENT YEAR.—

SPECIFIC CONDUCTANCE: Maximum recorded, 45,800 microsiemens, Oct. 29; minimum recorded, 4,780 microsiemens, Feb. 27.

WATER TEMPERATURE: Maximum recorded, 23.0°C, Sept. 5, 7, 8; minimum recorded, 8.5°C, Jan. 4–6.

SPECIFIC CONDUCTANCE, WATER, UNFILTERED, MICROSIEMENS PER CENTIMETER AT 25 DEGREES CELSIUS
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	---	---	42700	38500	39900	33600	36200	21300	35700	24800	20100	6110
2	---	---	43100	38600	39900	33900	35200	19900	36800	23900	29100	7780
3	---	---	43000	38400	40500	33600	36200	19200	36300	23300	28000	8380
4	---	---	43100	38100	40500	33900	36100	16400	36800	22000	32100	8810
5	---	---	42400	37600	40700	33900	35100	15100	36300	22700	28000	8820
6	---	---	42200	37600	42100	34000	35700	14700	35600	22900	26300	7030
7	---	---	42400	36500	42000	35700	36400	14600	35100	22600	25200	6770
8	---	---	42900	36300	39500	32500	34800	15500	34200	21900	25000	7900
9	---	---	42400	35500	42200	34800	35100	16200	32700	22100	26200	8320
10	---	---	43100	36100	41400	35300	32900	17800	---	---	28800	8430
11	---	---	42900	35100	40800	35300	31400	17800	33200	21000	30100	9740
12	---	---	40900	33900	39600	34200	29500	17600	35400	22300	32300	10700
13	---	---	41500	33600	38100	33300	30300	16800	36500	22000	30100	11400
14	---	---	40800	32300	38700	31500	33300	15800	37400	22100	29600	11400
15	---	---	39900	34100	36800	30300	36500	17000	37900	21300	32200	12900
16	---	---	39300	32700	35900	25400	36500	17500	36300	20500	33200	13000
17	---	---	40000	32000	37200	25700	36000	17800	35400	19900	35000	14100
18	---	---	---	---	36500	27000	36100	17500	36200	19000	33800	16900
19	---	---	---	---	39200	27200	35900	17900	34900	19700	32000	18600
20	---	---	41500	35600	39000	27600	36000	19400	33900	17900	31900	19100
21	---	---	41700	35600	40000	28700	36800	22000	31600	17400	31200	20100
22	---	---	42200	35700	39200	29500	36400	22200	29300	14000	32100	20000
23	---	---	43100	35000	40800	29500	36600	22600	28200	7870	32900	20700
24	---	---	44000	35700	40300	27700	35300	22900	23600	7020	33100	20800
25	---	---	44000	36100	39800	29200	34100	23700	23400	6010	34700	19800
26	---	---	43700	35900	38400	29800	33600	24300	15700	6640	32500	19100
27	---	---	42300	35900	36600	28300	32700	22600	13400	4780	32600	17700
28	---	---	42400	34000	33600	24600	34300	23000	16600	6010	36100	16800
29	45800	38400	38900	32800	32000	21700	37800	23300	17500	5710	37000	18100
30	44300	38600	39200	33300	32100	20200	37700	23600	---	---	37500	25600
31	43400	38500	---	---	37900	21300	39800	27200	---	---	36200	27300
MONTH	---	---	---	---	42200	20200	39800	14600	---	---	37500	6110

380519122262901 SAN PABLO BAY AT PETALUMA RIVER CHANNEL MARKER 1, CA—Continued

SPECIFIC CONDUCTANCE, WATER, UNFILTERED, MICROSIEMENS PER CENTIMETER AT 25 DEGREES CELSIUS
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	37400	27400	38000	29500	41000	30200	44800	34800	44700	35500	41800	36400
2	38100	28100	37700	28700	40900	29800	44400	34600	43800	35700	41700	35600
3	36600	27800	38400	28400	40900	29500	44400	35700	42800	35700	42000	36200
4	36500	27700	38600	27600	41600	29900	43900	36000	41900	34900	42200	36400
5	36900	28000	38900	28900	41900	30300	43900	36100	41000	34700	42600	36200
6	37900	27800	40500	28000	41800	31800	43600	36000	40900	34500	42100	35400
7	38500	27900	40200	28900	41800	33400	42500	36200	41400	34300	42600	35400
8	38700	27600	40000	28600	40500	35100	42700	36400	41400	33400	41800	36300
9	38800	27300	40100	29300	40800	34700	44000	36800	41100	32900	41600	36000
10	39200	26500	38500	27900	40700	34900	43200	36000	40900	32600	41600	36000
11	38800	26100	37100	29400	41900	34300	43300	35600	40900	32900	42500	35900
12	36100	26000	36100	29100	42200	34300	43600	35200	41100	32800	42100	35700
13	36100	27200	36400	27400	42000	34300	43700	35700	40800	32800	42000	36000
14	35200	23400	37100	27700	42900	34200	44100	35900	41500	33700	41500	36200
15	37200	23800	37600	27600	43500	34300	44800	35700	41700	34000	40800	36100
16	35600	24100	38400	27300	43400	34400	44600	34700	41600	34100	40700	35800
17	36100	24300	38400	28000	43300	34900	43800	34700	42300	34900	41200	35800
18	36200	24800	38300	30100	43900	35000	44000	34700	41800	34500	41300	36100
19	35800	23500	38600	29100	43900	36200	43700	34900	41500	34300	41700	36100
20	34900	23600	38200	27900	43800	36400	42800	35200	41700	34800	41100	35700
21	36100	23000	38300	28600	43000	36200	42100	34700	41300	34500	41300	35600
22	38100	23800	36800	28900	42400	35800	41400	34600	42100	34200	41700	35600
23	36800	22700	36900	29300	41700	34900	41600	34200	42900	34800	41700	34900
24	35800	21900	36800	27700	41200	33900	42300	34200	44600	35400	42100	35000
25	34900	22300	37300	29000	41900	34300	42500	34400	44300	35200	42100	35600
26	35600	21900	37600	28700	43200	35500	43300	34300	44100	35800	42000	35700
27	36800	21700	37800	28800	42900	35700	43600	33800	43700	35400	42000	35800
28	36200	26700	39600	30400	44000	35500	43900	34500	43500	35200	42000	36400
29	38200	27200	39500	30900	44700	35200	44700	34700	43400	35800	41900	37300
30	37700	28000	39900	30400	44900	34500	44600	35400	43700	36000	41500	37200
31	---	---	40100	30500	---	---	44600	35900	43100	35900	---	---
MONTH	39200	21700	40500	27300	44900	29500	44800	33800	44700	32600	42600	34900

380519122262901 SAN PABLO BAY AT PETALUMA RIVER CHANNEL MARKER 1, CA—Continued

TEMPERATURE, WATER, DEGREES CELSIUS, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	---	---	16.0	14.5	12.0	11.5	11.0	10.0	11.5	10.5	12.0	11.5
2	---	---	15.5	14.0	12.0	11.5	11.0	9.5	11.0	10.5	12.5	11.5
3	---	---	15.5	14.0	12.0	12.0	11.0	9.0	11.0	10.5	12.0	11.5
4	---	---	15.0	14.0	12.0	12.0	11.0	8.5	11.5	11.0	12.5	11.5
5	---	---	15.0	14.0	12.0	12.0	11.0	8.5	11.5	11.0	13.0	11.5
6	---	---	14.5	14.0	12.5	12.0	11.0	8.5	11.5	11.0	13.5	11.5
7	---	---	14.5	14.0	12.5	12.0	10.5	9.0	11.5	10.5	14.0	12.0
8	---	---	14.5	14.0	12.5	12.0	10.5	9.5	11.5	11.0	14.5	12.0
9	---	---	14.5	14.0	12.5	11.0	11.0	9.5	11.5	11.0	14.5	12.5
10	---	---	14.5	14.0	12.0	11.0	10.5	9.5	---	---	14.5	12.5
11	---	---	14.5	14.0	12.0	11.0	11.0	10.0	11.5	11.0	14.0	12.5
12	---	---	14.5	14.0	12.0	10.5	10.5	10.0	11.5	11.0	14.5	12.5
13	---	---	14.5	14.0	12.0	11.0	11.0	10.0	11.5	11.0	15.0	13.0
14	---	---	14.5	14.0	12.0	11.0	11.0	9.5	11.5	11.0	16.0	13.0
15	---	---	14.0	13.5	11.5	10.5	11.0	9.5	12.0	11.5	16.5	13.0
16	---	---	14.0	13.5	11.5	10.5	11.0	10.0	12.0	11.5	17.0	13.0
17	---	---	14.0	13.5	11.5	10.5	11.0	10.5	12.5	11.5	17.5	13.0
18	---	---	14.5	14.0	11.5	10.5	11.0	10.5	13.0	12.0	17.0	13.5
19	---	---	14.5	14.0	11.5	10.0	11.5	10.5	13.0	11.5	17.5	14.5
20	---	---	14.5	14.0	11.5	10.0	11.5	10.5	12.5	12.0	17.5	14.5
21	---	---	14.0	13.0	11.5	10.5	11.5	10.5	12.0	11.5	17.0	15.0
22	---	---	13.5	10.5	11.5	10.5	11.5	10.0	12.0	11.5	16.5	14.5
23	---	---	13.0	10.0	11.5	11.0	11.5	10.0	12.5	11.5	16.0	14.5
24	---	---	13.0	10.0	12.0	10.5	11.5	10.5	12.0	11.5	16.0	14.5
25	---	---	13.0	10.0	12.0	10.5	11.0	10.5	12.0	11.5	15.5	14.0
26	---	---	12.5	9.5	11.5	9.5	11.0	10.5	12.0	11.5	15.5	14.5
27	---	---	12.5	9.5	11.0	9.0	11.0	10.5	12.0	11.5	15.5	14.0
28	---	---	12.0	11.0	11.0	9.5	11.0	10.5	12.5	11.5	16.0	13.5
29	18.5	16.0	12.0	11.0	10.5	9.0	11.5	10.5	12.0	11.5	17.0	13.5
30	17.0	15.5	12.0	11.0	10.5	9.0	11.5	11.0	---	---	15.5	13.5
31	16.0	15.0	---	---	11.0	9.5	11.5	11.0	---	---	15.0	13.5
MONTH	---	---	16.0	9.5	12.5	9.0	11.5	8.5	---	---	17.5	11.5
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	15.0	13.5	18.5	15.0	19.0	16.0	20.0	17.0	20.5	18.0	22.0	20.0
2	15.5	13.5	19.5	15.5	19.5	16.0	19.5	17.0	19.5	18.5	22.0	20.5
3	16.0	13.5	19.5	15.5	20.0	16.5	19.5	17.0	20.0	18.5	22.0	20.0
4	16.0	14.0	19.5	15.5	19.5	16.0	19.0	17.5	20.0	18.5	22.0	20.0
5	15.5	14.0	18.0	15.0	19.5	16.0	19.5	17.5	20.0	18.5	23.0	20.0
6	15.5	14.0	18.0	15.0	20.0	16.0	20.0	17.5	20.5	19.0	22.5	20.0
7	15.5	13.5	18.0	15.0	19.0	16.0	20.0	18.0	21.0	19.0	23.0	20.5
8	16.0	14.0	18.5	15.0	18.5	16.0	20.0	18.0	21.0	19.0	23.0	21.0
9	16.0	14.0	18.5	15.0	19.0	16.5	19.0	17.5	21.5	19.0	22.5	21.0
10	17.0	14.0	18.0	15.5	19.5	17.0	19.5	18.0	21.5	19.5	22.0	20.5
11	17.0	14.0	18.0	15.5	19.5	16.5	20.0	18.0	21.5	19.5	22.0	20.0
12	17.0	14.0	18.5	16.0	19.5	16.0	20.0	18.0	21.5	19.5	21.5	20.0
13	16.0	14.0	18.5	16.0	20.0	16.5	20.5	18.0	21.0	19.5	21.5	20.0
14	16.0	14.0	19.0	15.5	19.5	16.5	20.5	18.0	21.0	19.0	21.5	20.0
15	15.5	14.0	19.0	15.5	20.0	16.5	20.5	18.0	20.5	19.0	22.0	20.5
16	15.5	14.0	19.0	15.5	20.0	16.5	20.5	18.0	21.0	19.0	22.0	20.5
17	16.0	14.0	17.5	15.5	19.5	17.0	20.5	18.5	21.0	19.0	21.5	20.0
18	15.0	14.0	18.0	15.5	19.5	16.5	21.0	18.5	21.0	19.0	20.5	19.5
19	15.0	14.0	18.5	15.5	19.0	17.0	21.5	19.0	20.5	19.5	19.5	19.0
20	15.0	14.0	18.5	15.5	19.5	17.0	21.5	19.5	20.5	19.5	19.5	18.5
21	15.0	14.0	18.0	15.5	19.5	17.0	21.0	19.5	20.5	19.0	20.0	18.5
22	15.5	13.5	17.5	16.0	19.5	17.5	21.0	19.5	20.5	19.0	20.0	18.5
23	16.0	14.0	18.0	15.5	19.5	18.0	21.0	19.5	21.0	19.0	20.0	18.0
24	17.0	14.0	18.0	15.5	19.5	18.0	21.0	19.5	21.0	18.5	20.5	18.5
25	18.0	14.5	18.5	16.0	20.0	17.5	21.5	19.5	21.0	18.5	20.5	18.5
26	19.0	14.5	19.0	16.0	20.0	17.0	21.5	19.0	21.0	19.0	20.5	18.5
27	19.5	14.5	19.5	16.5	20.5	17.5	21.5	18.5	21.5	19.5	20.0	18.5
28	18.0	15.0	18.5	15.5	20.0	17.0	21.0	18.5	22.0	19.5	19.5	18.5
29	18.0	14.5	18.5	16.0	20.0	17.0	21.0	18.0	22.0	19.5	19.0	18.0
30	18.5	14.5	19.0	16.0	20.0	17.0	20.5	18.5	21.5	19.5	18.5	18.0
31	---	---	20.0	16.0	---	---	20.5	18.5	22.0	20.0	---	---
MONTH	19.5	13.5	20.0	15.0	20.5	16.0	21.5	17.0	22.0	18.0	23.0	18.0

11181360 SAN PABLO STRAIT AT POINT SAN PABLO, CA

LOCATION.—Lat 37°57'53", long 122°25'42", in NW 1/4 sec.3, T.1 N., R.5 W., Contra Costa County, Hydrologic Unit 18050002, on north end of Richmond Terminal No. 4 Pier on west side of Point San Pablo.

DRAINAGE AREA.—Indeterminate.

PERIOD OF RECORD.—October 1989 to current year.

SPECIFIC CONDUCTANCE: October 1989 to current year.

WATER TEMPERATURE: October 1989 to current year.

PERIOD OF DAILY RECORD.—October 1989 to current year.

SPECIFIC CONDUCTANCE: October 1989 to current year.

WATER TEMPERATURE: October 1989 to current year.

INSTRUMENTATION.—Water-quality monitor since October 1989.

REMARKS.—Interruptions in record were due to malfunction of the sensing and (or) recording instruments. Upper probe is set about 4.0 ft below Mean Lower Low Water (MLLW). Lower probe is set about 20.0 ft below MLLW. Daily maximums and minimums sometimes differ from tidal-cycle (24.8 hours) maximums and minimums. Upper specific conductance record is rated excellent except for the following periods of fouling: Nov. 13–19, Nov. 30 to Dec. 9, April 24 to May 4, May 11–15, June 10–16, June 29 to July 6, July 16–28, which are rated good; Aug. 5–17, Aug. 25 to Sept. 8, and Sept. 14–30, which are rated fair. Lower specific conductance record is rated excellent except for the following period of fouling and calibration drift: Sept. 18–30, which is rated good. Upper and lower temperature records are rated excellent.

EXTREMES FOR PERIOD OF DAILY RECORD.—

SPECIFIC CONDUCTANCE: (Upper probe) Maximum recorded, 50,900 microsiemens, Aug. 25, 28, 1992; minimum recorded, 155 microsiemens, Jan. 5, 1997.

(Lower probe) Maximum recorded, 50,100 microsiemens, July 23, 1990; minimum recorded, 147 microsiemens, Jan. 5, 1997.

WATER TEMPERATURE: (Upper probe) Maximum recorded, 24.0°C, July 31, 1993; minimum recorded, 4.5°C, Dec. 23, 1990.

(Lower probe) Maximum recorded, 22.5°C, July 30, 1995, Aug. 26, 28, Sept. 4, 1997, Sept. 6, 2004; minimum recorded, 5.0°C, Dec. 21, 23, 1990.

EXTREMES FOR CURRENT YEAR.—

SPECIFIC CONDUCTANCE: (Upper probe) Maximum recorded, 48,300 microsiemens, Oct. 29; minimum recorded, 4,000 microsiemens, Feb. 27.

(Lower probe) Maximum recorded, 48,300 microsiemens, Oct. 29; minimum recorded, 5,080 microsiemens, Feb. 27.

WATER TEMPERATURE: (Upper probe) Maximum recorded, 22.5°C, Aug. 28, Sept. 4–6; minimum recorded, 8.5°C, Jan. 5.

(Lower probe) Maximum recorded, 22.5°C, Sept. 6; minimum recorded, 9.0°C, Jan. 6.

SPECIFIC CONDUCTANCE, WATER, UNFILTERED, MICROSIEMENS PER CENTIMETER AT 25 DEGREES CELSIUS

WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

(UPPER PROBE)

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	46700	39000	46800	39000	46000	37000	41500	22200	40000	27900	32900	5780
2	46500	38800	46600	39200	45600	36700	38100	16700	42300	28700	31600	9150
3	46100	39300	46700	38900	45900	38200	38000	19500	41100	28500	29100	10000
4	46300	38900	46500	39100	46100	37200	36800	17100	40300	27200	31600	10400
5	46400	38800	46500	38900	46200	36800	36700	17400	40600	26600	29100	8680
6	46500	38700	46900	38600	46400	37100	38300	17500	41600	25600	28200	9860
7	46700	39500	46900	38200	45800	37900	37900	18100	41200	25100	26800	10000
8	46600	39500	47400	37400	45900	36900	37800	18100	40400	24700	28700	9100
9	46800	41100	46900	38200	45400	36400	36800	20200	39800	23600	30900	11600
10	46500	40300	46700	38300	45600	37200	35400	20200	39800	21700	30800	13600
11	46900	38800	46800	38100	46000	37100	37000	19800	40500	26300	33700	10700
12	46600	38800	46700	38900	45300	33400	37400	17500	40200	26000	32900	11800
13	46600	39500	46500	38400	43900	32100	37600	17200	41200	25600	33400	14200
14	46800	39500	46500	38200	43700	32300	37200	17300	41300	26500	33200	15300
15	46600	40000	46100	38100	43700	27100	37900	18200	40900	26800	35400	16000
16	46600	40000	46200	37700	43800	27100	38500	19700	42800	27100	40100	18100
17	46000	38600	45800	37600	44300	27200	40500	22000	42600	26800	37200	18800
18	46500	37700	45800	36900	44600	30300	40400	22300	41100	26000	38300	19200
19	46400	39000	45700	36100	44200	29800	41200	23600	41600	23300	39300	21600
20	46300	39200	45800	39000	44000	30800	41700	23600	40900	21000	39100	21600
21	46200	39300	46000	39000	44800	30700	41500	24000	40300	19200	38700	21500
22	46400	39000	46700	38300	44500	30400	42100	23900	38200	11200	39200	21500
23	46700	40600	46900	37300	45300	30900	40900	24400	36800	8810	39800	23500
24	46800	40100	47000	37900	45800	31500	41800	26200	33100	7140	40100	22300
25	47200	38900	46900	38300	44600	31900	40400	27600	32900	6840	35200	18000
26	47200	39200	47100	38300	43900	29900	40300	24800	27000	5820	37500	19900
27	47500	39500	46900	37200	41600	25100	41600	24400	29400	4000	38500	18200
28	47800	39800	46900	36600	41300	21900	41800	24200	31000	5240	37300	15900
29	48300	41200	46700	36800	42300	23100	38700	25300	31300	5510	39000	20900
30	---	---	46400	37500	40700	23800	40100	24200	---	---	42100	21400
31	47100	42000	---	---	40600	22600	40100	27000	---	---	40500	24600
MONTH	---	---	47400	36100	46400	21900	42100	16700	42800	4000	42100	5780

11181360 SAN PABLO STRAIT AT POINT SAN PABLO, CA—Continued

SPECIFIC CONDUCTANCE, WATER, UNFILTERED, MICROSIEMENS PER CENTIMETER AT 25 DEGREES CELSIUS
 WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
 (UPPER PROBE)

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	39200	25200	42300	31900	46000	33400	47100	37500	47700	37800	45300	38900
2	42500	28300	42800	33000	46000	33400	47300	36300	47900	37200	45600	38500
3	41800	29000	42900	32900	46300	33300	47100	37400	47000	37400	45300	39600
4	41500	30800	43000	33300	46400	34000	46900	37100	46500	36000	44700	38000
5	41700	30000	44500	33500	46500	35100	47300	38000	45900	35400	44500	38200
6	41700	31200	44700	33800	46200	37000	46800	38100	46300	35200	44000	37300
7	41800	29700	45400	33300	45700	39100	47000	38200	47200	34600	44300	37200
8	43000	28600	45000	33100	45100	37700	47300	38200	46100	35100	45600	38700
9	43300	28100	43200	33600	45400	35100	47500	36900	45100	36800	45700	38100
10	40900	27600	42800	33500	45500	35800	47400	35600	45700	37900	45800	38400
11	41000	26500	42500	29400	46000	34400	46800	36700	45500	37700	45900	38700
12	41100	23400	44100	27800	46000	35900	47000	36800	45300	37400	45700	38400
13	41000	23200	44000	28600	46100	36400	46400	37100	45200	37900	45300	39700
14	42000	20900	44200	30800	45900	37500	46900	36800	44800	37600	44900	37400
15	40800	22600	---	---	47200	36900	46800	37100	44900	37300	45000	37600
16	41000	23500	---	---	47200	38200	46800	37200	45200	37700	44600	37300
17	41400	25200	---	---	47700	38900	46300	36700	45300	37100	44500	38600
18	41400	25900	---	---	47300	38200	46000	37200	46000	36900	44100	38700
19	41400	23300	---	---	47300	38800	45800	37100	46000	36400	44100	38900
20	42000	24200	---	---	46000	39100	45900	37100	46000	35800	44200	38700
21	39800	23800	---	---	46900	38300	45500	36000	46500	37600	43900	37100
22	39500	24300	---	---	46700	37100	45500	36000	46300	37900	44800	36700
23	39600	22400	---	---	45800	36300	45800	34400	46300	38200	45000	37100
24	39400	23000	---	---	45800	35600	46300	34500	46000	38100	45100	37600
25	40500	22400	---	---	45600	34000	46300	34600	45200	37600	44600	37400
26	40900	23000	44400	31300	46400	35300	47200	37100	45300	36800	44400	37200
27	41800	24600	44800	30900	46600	37500	47500	37400	45900	36300	44200	37100
28	41600	26800	43700	29500	47400	37100	48000	38800	45100	36900	44200	38300
29	39900	28700	44600	31500	47500	38300	48100	38200	45500	37400	44200	38100
30	42000	28400	45000	31000	47300	38200	47500	38100	45700	38500	44200	37900
31	---	---	45300	33100	---	---	48000	37300	45200	38800	---	---
MONTH	43300	20900	---	---	47700	33300	48100	34400	47900	34600	45900	36700

11181360 SAN PABLO STRAIT AT POINT SAN PABLO, CA—Continued

SPECIFIC CONDUCTANCE, WATER, UNFILTERED, MICROSIEMENS PER CENTIMETER AT 25 DEGREES CELSIUS
 WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
 (LOWER PROBE)

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	47400	39700	46200	38800	45900	37500	42600	24200	41600	28800	39500	6560
2	47200	39800	46100	38800	45500	36700	42200	17000	42700	28600	38000	9320
3	47000	39800	46100	38600	45700	38100	42100	19700	42400	28900	38800	11500
4	47000	39500	46100	39000	45900	36900	41600	17200	42300	27200	37900	10400
5	47300	39300	46200	39100	45900	36400	41600	18100	42300	26700	35900	9460
6	47200	39600	46500	39200	46300	37000	41700	18200	41800	25800	38000	10900
7	47400	40100	46400	37800	45800	37800	40900	20400	41700	25900	37500	10800
8	47400	40300	46900	37100	46000	36900	40800	19400	41300	24900	36700	10600
9	47600	42000	46700	37900	45800	36500	39200	21300	41500	24200	36900	12400
10	47400	41000	46500	37900	45500	37600	39800	20600	40900	25100	37500	14500
11	---	---	46300	37800	45900	37500	40400	21000	41200	26700	39500	12300
12	---	---	46600	38600	45000	33500	39200	17400	42100	27300	40300	12000
13	---	---	46400	38000	44300	32200	39600	20200	42300	26200	39900	14600
14	---	---	46300	37800	44300	32800	40800	21400	42400	26600	39900	15600
15	---	---	46100	38200	43800	28400	42100	22700	42700	26900	41200	17000
16	---	---	45900	37200	---	---	42100	24100	42700	27300	41200	19400
17	---	---	45500	37800	---	---	40800	23200	42600	26900	41300	21300
18	---	---	45500	36800	---	---	41200	22900	43000	26200	40900	23000
19	---	---	45600	36500	---	---	41500	23900	41700	23300	39500	22600
20	---	---	45600	38800	---	---	41700	24000	41200	21100	39700	22100
21	---	---	45800	39000	---	---	41700	24400	40500	19600	38900	24900
22	---	---	46400	38500	---	---	41900	24000	39500	15000	39500	23800
23	---	---	46700	37200	---	---	41700	24800	38600	12100	39800	24400
24	---	---	46700	37700	---	---	41600	26400	37600	9440	40300	23600
25	---	---	46800	38000	---	---	40900	27500	35700	8090	40700	23000
26	---	---	46900	38600	---	---	40200	25800	35600	10400	40000	21300
27	---	---	46600	37100	---	---	41400	26200	38300	5080	40900	21900
28	48100	42200	46700	36600	---	---	41800	26900	38500	6570	41700	20800
29	48300	41100	46700	37000	---	---	42700	25800	38900	6540	41700	21700
30	---	---	46200	37600	41900	23900	42700	28400	---	---	42400	24400
31	46900	41500	---	---	43300	23700	43600	28800	---	---	42000	26300
MONTH	---	---	46900	36500	---	---	43600	17000	43000	5080	42400	6560
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	41600	27400	---	---	45800	31500	47300	37500	47600	37700	46100	39300
2	42800	30000	---	---	45800	33300	47800	36500	47700	37100	46100	38600
3	42500	29700	---	---	46200	33500	47700	37600	47100	37300	46100	37000
4	41800	31900	---	---	46300	33900	47700	36700	46400	35900	45900	35400
5	42000	32000	44700	33600	46400	35100	47700	37500	46100	36500	45700	35400
6	42200	31500	45200	34300	46400	35500	46600	35200	46000	37800	45600	37100
7	42200	29900	45700	33600	45800	35500	46800	38100	46400	37300	45300	36100
8	43300	28700	45400	33300	45800	38100	47100	38300	46300	35500	46000	36500
9	43600	28200	45000	34300	45900	33700	47300	38600	46300	36100	45700	38000
10	43800	27900	45300	35400	45100	37200	47300	38600	46000	36700	45600	38100
11	43000	26900	44300	32100	45700	35800	47000	36900	45700	36800	45700	38500
12	43000	25400	44100	28400	45900	35800	47100	36900	45900	36800	45700	38100
13	42200	26400	44100	30000	45700	36300	47000	37200	46500	37800	45600	40200
14	41900	21300	44300	33600	45800	37400	47200	36800	46500	37600	45700	38200
15	42300	23400	43900	32700	47400	36600	46900	37300	46200	37300	45800	38400
16	41600	24800	44300	33600	47400	38100	46900	37600	45800	36900	45600	38700
17	41400	27400	44300	33600	47800	38800	47100	37300	45600	34900	45700	39400
18	41200	27100	44900	34800	47400	38100	46900	37800	46100	37100	45600	39500
19	41300	24000	44700	32900	47300	38700	46900	37700	46100	36700	45100	39600
20	---	---	45200	33100	47400	39100	46500	37400	46400	38500	45100	39600
21	---	---	44600	34000	46800	38300	46100	36200	46800	38100	44800	37600
22	---	---	44600	34300	46800	37300	46300	36400	46900	38100	45000	36500
23	---	---	44800	34300	46400	36500	46300	35800	46900	38500	44700	36500
24	---	---	44700	29800	45900	36200	46700	35500	47000	38700	44600	37100
25	---	---	44300	30400	45500	35700	46600	37400	46700	38500	44800	36700
26	---	---	44200	31000	45800	36600	47000	36900	46700	38100	44500	37000
27	---	---	44500	32600	46600	39400	47400	36700	46900	37400	44900	37000
28	---	---	44000	29400	47400	37200	47800	38100	46700	37600	45100	39400
29	---	---	44400	33600	47500	38200	47800	38100	46600	37500	45400	39200
30	---	---	44700	32800	47400	38100	47700	37900	46600	38700	45800	38900
31	---	---	45200	33100	---	---	47800	37200	46500	38800	---	---
MONTH	---	---	---	---	47800	31500	47800	35200	47700	34900	46100	35400

11181360 SAN PABLO STRAIT AT POINT SAN PABLO, CA—Continued

TEMPERATURE, WATER, DEGREES CELSIUS, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

(UPPER PROBE)

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	19.5	17.0	16.0	14.0	12.5	11.5	11.5	10.0	11.5	10.5	12.5	11.5
2	19.0	17.5	15.5	14.0	12.5	12.0	11.0	9.5	11.5	10.5	13.0	11.5
3	18.5	17.0	15.5	14.0	12.5	11.5	11.0	9.5	11.5	10.0	12.0	11.5
4	18.5	17.0	15.0	13.5	12.5	12.0	11.0	9.5	12.0	11.0	13.0	11.5
5	18.5	17.0	15.0	14.0	12.5	11.5	10.5	8.5	11.5	10.5	13.0	11.5
6	18.5	16.5	14.5	13.5	13.0	12.0	11.0	9.0	11.5	11.0	14.0	11.5
7	18.5	16.5	14.5	13.5	13.0	12.5	11.0	9.0	11.5	10.5	14.0	12.0
8	19.0	16.5	14.5	13.5	12.5	12.0	11.0	9.5	12.0	10.5	14.0	12.0
9	18.5	16.5	14.5	13.5	12.5	11.5	11.0	9.5	12.0	11.0	14.5	12.5
10	18.0	16.0	15.0	13.5	12.5	12.0	11.0	10.0	12.0	10.5	14.5	13.0
11	18.0	16.0	14.5	13.5	12.5	11.0	11.0	10.0	12.0	11.0	15.0	13.0
12	18.5	16.0	14.5	13.5	12.0	11.0	11.5	10.0	12.0	11.0	15.0	13.0
13	18.0	16.0	14.5	13.5	12.5	11.5	11.5	10.0	11.5	11.0	15.5	13.0
14	18.0	16.0	14.5	13.5	12.0	11.5	11.0	9.5	12.0	11.0	16.0	13.0
15	17.5	16.0	14.0	13.5	12.0	11.0	11.0	10.0	12.5	11.5	16.5	13.0
16	18.0	16.0	14.0	13.5	12.0	11.0	11.5	10.0	12.0	11.5	17.5	12.5
17	18.0	16.0	14.5	13.5	12.0	11.0	11.5	10.5	12.5	11.5	17.5	13.5
18	18.0	15.5	14.5	13.5	12.0	11.0	11.5	10.5	14.0	12.0	17.0	13.0
19	18.0	15.5	14.5	13.5	12.0	10.5	11.5	10.5	12.5	11.5	17.0	13.5
20	18.5	15.5	14.5	13.5	12.0	11.0	12.0	11.0	12.0	11.5	17.0	13.5
21	18.0	15.5	14.0	13.0	12.0	11.0	11.5	11.0	12.0	11.5	16.5	13.5
22	18.0	15.5	13.5	11.0	12.0	11.0	11.5	10.0	12.5	11.5	16.5	13.5
23	18.5	15.5	13.0	11.0	12.0	11.0	11.5	10.5	12.5	11.0	16.0	13.5
24	18.5	15.0	13.0	11.0	12.0	11.0	11.5	11.0	12.5	11.5	16.5	13.5
25	18.5	15.0	13.0	11.0	12.0	11.0	11.5	10.0	12.5	12.0	15.5	14.5
26	18.5	15.0	13.0	11.5	12.0	10.0	11.5	10.5	12.0	11.5	15.0	13.5
27	18.5	15.0	12.5	11.0	11.5	10.0	11.5	10.5	13.0	11.5	16.0	13.5
28	18.5	15.0	12.5	11.0	11.5	10.0	11.5	10.5	12.5	11.5	17.0	13.5
29	17.5	14.5	12.5	11.0	11.5	10.0	11.5	10.5	12.5	11.5	16.5	13.5
30	---	---	12.5	11.5	11.0	10.0	11.5	11.0	---	---	16.0	13.0
31	16.0	13.5	---	---	11.0	10.0	11.5	10.0	---	---	16.0	13.0
MONTH	---	---	16.0	11.0	13.0	10.0	12.0	8.5	14.0	10.0	17.5	11.5
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	16.5	13.0	19.0	14.0	19.0	14.5	19.0	15.5	20.0	17.0	22.0	18.5
2	15.5	12.5	19.5	14.0	18.5	14.5	19.0	15.5	19.5	17.0	21.5	18.5
3	16.0	13.0	19.0	14.0	19.0	14.5	19.0	15.5	20.0	17.0	22.0	18.5
4	16.0	13.0	19.0	14.0	19.0	14.5	19.5	16.0	20.0	17.5	22.5	18.5
5	16.0	13.0	18.5	14.0	18.5	14.5	19.5	16.0	20.0	18.0	22.5	19.5
6	16.0	13.0	17.5	14.0	18.5	14.5	19.5	16.5	21.0	18.0	22.5	19.5
7	16.0	13.0	17.5	13.5	19.5	15.0	19.0	16.5	21.0	17.5	22.0	19.5
8	15.5	13.0	18.0	14.0	19.0	15.0	19.0	16.5	21.0	18.5	22.0	19.5
9	15.5	13.0	19.0	14.5	19.0	15.0	19.0	16.5	20.5	18.5	21.5	19.5
10	16.0	13.5	18.5	15.0	19.0	15.0	19.0	16.5	20.5	18.5	21.5	19.0
11	16.0	13.5	18.5	14.5	19.5	15.0	19.5	17.0	20.5	18.5	21.0	19.0
12	16.5	13.5	19.0	14.5	19.0	15.0	19.0	17.0	20.5	18.0	21.5	19.0
13	16.0	13.0	19.0	14.5	20.0	15.0	20.0	17.5	20.0	17.5	21.5	19.0
14	16.0	13.0	18.5	14.5	19.0	15.0	20.0	17.5	20.5	18.0	22.0	18.5
15	16.0	13.5	---	---	19.5	15.0	20.0	17.5	20.5	17.5	22.0	18.5
16	16.0	13.0	---	---	19.0	15.0	20.0	17.5	21.0	18.0	22.0	18.0
17	17.0	13.0	---	---	18.5	14.5	20.5	17.5	21.0	18.0	20.5	18.0
18	15.0	13.0	---	---	19.0	15.0	21.0	18.0	20.5	18.0	20.0	17.5
19	15.0	13.0	---	---	19.0	15.0	22.0	18.0	20.0	18.0	19.0	18.0
20	15.5	13.0	---	---	19.5	16.0	21.0	18.5	20.5	17.5	19.0	17.5
21	16.0	13.5	---	---	18.5	16.0	21.0	18.5	20.0	17.5	19.5	17.5
22	16.5	13.5	---	---	19.0	16.0	20.5	18.0	20.0	17.5	19.5	17.5
23	17.0	14.0	---	---	19.0	16.5	20.5	18.0	20.5	17.5	21.5	17.0
24	16.0	14.0	---	---	19.5	16.5	21.0	17.5	21.0	17.5	21.0	17.0
25	17.5	14.0	---	---	20.0	16.5	21.0	17.5	21.0	18.0	20.0	17.0
26	18.5	14.0	18.0	15.0	20.5	16.5	21.0	17.5	21.0	18.0	20.5	17.0
27	18.5	14.0	18.5	15.0	19.5	16.5	20.5	17.0	22.0	18.0	19.5	17.0
28	18.5	14.0	18.5	15.5	19.0	15.5	20.5	16.5	22.5	18.5	19.0	16.5
29	18.0	14.5	19.5	15.0	19.0	15.5	20.0	16.5	22.0	18.0	18.5	16.5
30	18.0	14.0	19.5	15.0	19.5	15.5	20.0	17.0	22.0	18.0	18.5	16.5
31	---	---	19.5	15.0	---	---	20.5	17.0	22.0	18.0	---	---
MONTH	18.5	12.5	---	---	20.5	14.5	22.0	15.5	22.5	17.0	22.5	16.5

11181360 SAN PABLO STRAIT AT POINT SAN PABLO, CA—Continued

TEMPERATURE, WATER, DEGREES CELSIUS, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
(LOWER PROBE)

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	19.5	17.0	16.0	13.5	12.0	11.5	11.5	10.5	11.5	10.5	12.0	12.0
2	19.0	17.0	15.5	14.0	12.5	12.0	11.5	10.0	11.5	10.5	12.5	11.5
3	18.5	17.0	15.0	14.0	12.5	11.5	11.5	9.5	11.5	11.0	12.0	12.0
4	18.5	17.0	15.0	14.0	12.5	12.0	11.5	9.5	12.0	11.0	13.0	11.5
5	18.5	17.0	14.5	13.5	12.5	12.0	11.0	9.5	11.5	11.0	13.0	12.0
6	18.5	16.5	14.5	13.5	13.0	12.0	11.0	9.0	11.5	11.0	14.0	12.0
7	18.5	16.5	14.5	13.5	13.0	12.5	11.0	9.5	11.5	11.0	14.0	12.0
8	19.0	16.5	14.5	13.5	12.5	12.0	11.0	9.5	11.5	11.0	14.0	12.0
9	18.5	16.5	14.5	13.5	12.5	11.5	11.0	10.0	12.0	11.0	14.0	12.0
10	18.0	16.0	14.5	13.5	12.5	12.0	11.0	10.0	12.0	10.5	14.5	12.5
11	18.0	16.0	14.5	13.5	12.5	11.5	11.5	10.0	11.5	11.0	14.0	12.0
12	18.5	16.0	14.5	13.5	12.0	11.0	11.5	10.0	12.0	11.0	14.5	12.0
13	18.0	16.0	14.5	13.5	12.5	11.5	11.5	10.0	11.5	11.0	15.5	12.0
14	18.0	16.0	14.0	13.5	12.0	11.5	11.5	9.5	11.5	11.0	16.0	12.0
15	18.0	16.0	14.0	13.5	12.0	11.0	11.5	10.0	12.0	11.5	16.5	12.0
16	18.0	16.0	14.0	13.5	---	---	11.5	10.5	12.0	11.5	16.5	12.0
17	18.0	15.5	14.5	13.5	---	---	11.5	10.5	12.5	11.5	17.0	12.5
18	18.0	15.5	14.5	13.5	---	---	11.5	10.5	13.5	12.0	17.0	13.0
19	18.0	15.5	14.5	13.5	---	---	11.5	11.0	12.5	12.0	16.5	13.0
20	18.0	16.0	14.5	13.5	---	---	12.0	11.0	12.0	12.0	16.5	13.5
21	18.0	15.5	14.0	13.0	---	---	11.5	11.0	12.0	11.5	16.0	13.5
22	18.0	15.5	13.5	11.0	---	---	11.5	10.5	12.5	11.5	16.0	13.5
23	18.5	15.5	13.0	11.0	---	---	11.5	10.5	12.5	11.5	16.0	13.5
24	18.5	15.0	13.0	11.0	---	---	11.5	11.0	12.5	11.5	16.0	13.5
25	18.5	15.0	13.0	11.0	---	---	11.5	10.0	12.0	12.0	15.5	13.5
26	18.5	15.0	13.0	11.5	---	---	11.5	10.5	12.0	11.5	14.5	13.0
27	18.5	15.0	12.5	11.0	---	---	11.5	11.0	12.5	11.5	15.0	13.0
28	18.5	15.0	12.5	11.0	---	---	11.5	10.5	12.5	11.5	15.5	13.0
29	17.5	14.5	12.5	11.0	---	---	11.5	10.5	12.5	11.5	16.5	13.0
30	---	---	12.5	11.5	11.5	10.0	11.5	11.0	---	---	15.0	12.5
31	15.5	13.5	---	---	11.5	10.0	11.5	10.5	---	---	15.5	12.5
MONTH	---	---	16.0	11.0	---	---	12.0	9.0	13.5	10.5	17.0	11.5
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	15.5	12.5	---	---	18.0	14.5	19.0	15.5	19.5	17.0	21.5	18.5
2	15.5	12.5	---	---	18.5	14.5	19.0	15.5	19.5	17.0	21.0	18.5
3	15.5	12.5	---	---	18.5	14.5	19.0	15.5	19.5	17.0	21.5	18.5
4	15.5	13.0	---	---	18.5	14.5	19.0	15.5	19.5	17.5	21.5	18.5
5	16.0	13.0	18.0	14.0	18.0	14.0	19.0	16.0	19.5	17.5	22.0	18.5
6	15.5	13.0	17.0	13.5	18.5	14.5	19.0	16.5	20.5	17.5	22.5	18.5
7	15.5	13.0	17.5	13.5	19.0	15.0	19.0	16.5	20.5	17.5	22.0	18.5
8	15.0	13.0	18.0	14.0	18.5	15.0	18.5	16.5	20.5	17.5	22.0	19.0
9	15.5	13.0	18.5	14.0	19.0	15.0	18.5	16.5	20.5	17.5	21.5	19.0
10	15.5	12.5	18.0	14.0	18.5	15.0	19.0	16.5	20.5	18.0	21.5	19.0
11	15.5	13.0	18.5	14.5	19.0	15.0	19.0	16.5	20.5	18.0	21.0	19.0
12	16.5	13.0	19.0	14.5	18.5	15.0	19.0	17.0	20.5	18.0	21.5	19.0
13	15.5	13.0	18.5	14.5	18.5	15.0	19.0	17.0	20.0	17.5	21.0	18.5
14	16.0	13.0	18.0	14.5	18.5	15.0	19.5	17.0	20.0	17.5	21.5	18.5
15	16.0	13.0	17.5	14.5	18.5	14.5	19.5	17.5	20.0	17.5	21.5	18.5
16	15.5	13.0	18.0	14.5	19.0	14.5	19.5	17.5	20.0	17.5	21.5	18.0
17	16.0	13.0	17.5	14.5	18.5	14.5	20.0	17.5	20.5	17.5	20.5	18.0
18	14.5	13.0	18.0	14.0	19.0	15.0	20.5	17.5	20.0	18.0	19.5	17.5
19	15.0	13.0	17.5	14.5	18.5	15.0	20.5	18.0	19.5	17.5	19.0	17.5
20	---	---	17.5	14.0	18.5	15.0	21.0	18.0	20.0	17.5	19.0	17.5
21	---	---	17.0	14.5	18.5	15.5	20.5	18.0	20.0	17.5	19.5	17.5
22	---	---	17.0	14.5	18.5	16.0	20.5	18.0	20.0	17.5	19.5	17.0
23	---	---	17.0	14.5	18.5	16.0	20.5	18.0	20.5	17.5	19.5	17.0
24	---	---	17.5	14.5	19.0	16.5	20.5	17.5	20.5	17.5	20.0	17.0
25	---	---	17.5	14.5	19.0	16.5	21.0	17.5	21.0	18.0	19.5	17.0
26	---	---	18.0	15.0	20.0	16.0	20.5	17.0	21.0	18.0	19.5	17.0
27	---	---	17.5	14.5	19.5	16.0	20.5	17.0	21.5	18.0	19.5	16.5
28	---	---	18.0	15.0	19.0	15.5	20.5	16.5	22.0	18.0	19.0	16.5
29	---	---	18.5	15.0	19.0	15.5	20.0	16.5	21.0	18.0	18.5	16.5
30	---	---	19.0	15.0	19.0	15.5	20.0	17.0	21.5	18.0	18.5	16.0
31	---	---	18.5	15.0	---	---	20.0	16.5	21.5	18.0	---	---
MONTH	---	---	---	---	20.0	14.0	21.0	15.5	22.0	17.0	22.5	16.0

11182500 SAN RAMON CREEK AT SAN RAMON, CA

LOCATION.—Lat 37°46'23", long 121°59'37", in sec.8, T.2 S., R.1 W., Contra Costa County, Hydrologic Unit 18050001, on right bank, 0.2 mi downstream from Bollinger Creek, and 1.0 mi southwest of San Ramon.

DRAINAGE AREA.—5.89 mi².

PERIOD OF RECORD.—October 1952 to current year.

REVISED RECORDS.—WSP 1445: 1953–54(P).

GAGE.—Water-stage recorder and concrete control. Elevation of gage is 530 ft above NGVD of 1929, 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, 1,600 ft³/s, Oct. 13, 1962, gage height, 16.98 ft, from rating curve extended above 200 ft³/s, on basis of culvert computations at gage heights 11.80, 12.09, 14.20, and 16.98 ft; no flow for parts of most years.

EXTREMES FOR CURRENT YEAR.—Peak discharges greater than base discharge of 200 ft³/s, or maximum:

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Jan. 1	1200	431	5.14	Feb. 25	1130	388	4.89
Feb. 18	0415	351	4.66				

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.02	0.01	0.41	72	0.90	10	2.1	0.81	0.46	0.24	e0.05	0.02
2	0.02	0.07	0.48	15	8.7	8.4	1.8	0.81	0.45	0.24	e0.05	0.03
3	0.02	0.18	0.29	5.6	6.4	7.1	1.7	0.80	0.47	0.20	e0.04	0.03
4	0.04	0.06	0.28	3.2	2.8	6.4	1.7	0.73	0.47	0.18	e0.04	0.03
5	0.04	0.06	0.52	2.0	2.2	5.7	1.7	0.73	0.44	0.18	e0.04	0.03
6	0.04	0.10	1.5	1.6	1.9	5.2	1.7	0.73	0.42	0.15	e0.04	0.03
7	0.03	0.18	2.1	1.6	2.0	4.9	1.7	0.73	0.41	0.14	e0.04	0.03
8	0.03	0.95	0.37	1.5	1.8	4.6	1.6	0.73	0.39	0.14	e0.04	0.03
9	0.03	0.86	0.53	1.4	1.6	4.4	1.6	0.73	0.41	0.15	e0.05	0.03
10	0.03	0.14	6.6	1.4	1.5	4.1	1.3	0.73	0.41	0.15	e0.05	0.03
11	0.03	0.08	2.1	1.2	1.4	3.8	1.3	0.73	0.40	0.13	e0.04	0.03
12	0.03	0.07	0.34	1.1	1.3	3.8	1.2	0.73	0.36	0.10	e0.03	0.03
13	0.02	0.07	0.45	1.1	1.3	3.5	1.2	0.73	0.31	0.11	e0.03	0.03
14	0.01	0.21	4.6	1.0	1.2	3.1	1.2	0.69	0.32	0.12	e0.03	0.03
15	0.02	0.58	0.52	0.99	1.2	3.0	1.2	0.65	0.28	0.11	e0.05	0.03
16	0.02	0.35	0.35	0.99	7.0	2.7	1.2	0.65	0.26	0.11	e0.04	0.03
17	0.02	0.26	0.31	1.1	26	2.7	1.1	0.65	0.25	0.08	e0.03	0.04
18	0.01	0.25	0.27	0.99	75	2.7	1.1	0.65	0.29	0.07	e0.03	0.04
19	0.02	0.22	0.43	0.99	11	2.7	1.1	0.63	0.29	0.07	e0.04	0.45
20	0.01	0.18	0.50	1.0	8.2	2.6	1.2	0.58	0.30	0.07	e0.03	0.06
21	0.01	0.16	0.40	1.0	6.1	2.5	1.2	0.61	0.31	0.07	e0.03	0.02
22	0.02	0.14	0.25	0.99	6.4	2.5	1.2	0.62	0.31	0.06	e0.03	0.02
23	0.02	0.12	0.84	0.99	4.7	2.5	1.1	0.63	0.30	0.06	e0.02	0.02
24	0.01	0.13	3.5	1.5	4.8	2.4	1.1	0.60	0.28	0.07	e0.02	0.03
25	0.01	0.14	1.0	1.1	77	4.8	0.99	0.60	0.26	0.07	e0.03	0.03
26	0.01	0.14	0.49	1.0	65	3.9	0.94	0.56	0.23	e0.05	0.03	0.03
27	0.01	0.14	0.37	1.6	24	3.0	0.96	0.55	0.22	e0.06	0.04	0.04
28	0.01	0.14	0.34	1.3	14	2.6	0.90	0.66	0.21	e0.05	0.04	0.04
29	0.02	0.17	13	1.0	11	2.3	0.88	0.56	0.21	e0.04	0.03	0.03
30	0.03	0.37	5.8	1.1	---	2.2	0.81	0.49	0.21	e0.04	0.04	0.02
31	0.33	---	1.3	0.99	---	2.2	---	0.47	---	e0.04	0.03	---
TOTAL	0.97	6.53	50.24	128.33	376.40	122.3	38.78	20.57	9.93	3.35	1.13	1.34
MEAN	0.03	0.22	1.62	4.14	13.0	3.95	1.29	0.66	0.33	0.11	0.04	0.04
MAX	0.33	0.95	13	72	77	10	2.1	0.81	0.47	0.24	0.05	0.45
MIN	0.01	0.01	0.25	0.99	0.90	2.2	0.81	0.47	0.21	0.04	0.02	0.02
AC-FT	1.9	13	100	255	747	243	77	41	20	6.6	2.2	2.7

e Estimated.

PACHECO CREEK BASIN

11182500 SAN RAMON CREEK AT SAN RAMON, CA—Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1953 - 2004, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	0.45	0.61	3.53	8.93	10.6	7.56	4.58	1.41	0.55	0.21	0.09	0.06
MAX	17.0	5.49	27.2	42.3	67.2	60.6	44.9	4.92	1.99	0.83	0.42	0.33
(WY)	1963	1984	1956	1997	1998	1983	1958	1967	1967	1958	1998	1982
MIN	0.00	0.00	0.00	0.00	0.04	0.17	0.02	0.00	0.00	0.00	0.00	0.00
(WY)	1953	1956	1977	1991	1991	1977	1977	1977	1976	1955	1954	1954

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR	FOR 2004 WATER YEAR	WATER YEARS 1953 - 2004
ANNUAL TOTAL	595.67	759.87	
ANNUAL MEAN	1.63	2.08	3.18
HIGHEST ANNUAL MEAN			12.4 1983
LOWEST ANNUAL MEAN			0.03 1977
HIGHEST DAILY MEAN	27 Apr 13	77 Feb 25	411 Oct 13 1962
LOWEST DAILY MEAN	0.01 Sep 2	0.01 Oct 14	0.00 Oct 1 1952
ANNUAL SEVEN-DAY MINIMUM	0.01 Oct 20	0.01 Oct 20	0.00 Oct 1 1952
MAXIMUM PEAK FLOW		431 Jan 1	1600 Oct 13 1962
MAXIMUM PEAK STAGE		5.14 Jan 1	16.98 Oct 13 1962
ANNUAL RUNOFF (AC-FT)	1180	1510	2300
10 PERCENT EXCEEDS	4.3	3.8	6.4
50 PERCENT EXCEEDS	0.74	0.41	0.30
90 PERCENT EXCEEDS	0.02	0.03	0.00

11455780 SUISUN BAY AT BENICIA BRIDGE, NEAR BENICIA, CA

LOCATION.—Lat 38°02'42", long 122°07'32", unsurveyed, T.3 N., R.3 W., Solano County, Hydrologic Unit 18050001, at north side of bridge pier 7, directly under Benicia Bridge.

PERIOD OF DAILY RECORD.—

SPECIFIC CONDUCTANCE: May 2001 to current year.

WATER TEMPERATURE: May 2001 to current year.

INSTRUMENTATION.—Water-quality monitor since May 2001.

REMARKS.—Interruptions in record were due to malfunction of sensing and (or) recording instruments. Upper probes are set about 6 ft below water surface at Mean Lower Low Water (MLLW). Lower probes are set about 55 ft below MLLW. MLLW is about 80 ft at the site but about 60 ft immediately adjacent, which is why the lower probes are set about 25 ft above the bottom. The upper conductivity record is rated excellent except for the following periods of calibration drift and fouling: Feb. 11 to Mar. 24, May 7–24, Aug. 30 to Sept. 8, which are rated good; and Sept. 26–30, which are rated fair. The lower conductivity record is rated excellent except for the following periods of calibration drift and fouling: Feb. 17 to May 7, May 27 to July 29, which are rated good, and May 8–26, Sept. 23–30, which are rated poor. Upper and lower temperature records are rated excellent.

EXTREMES FOR PERIOD OF DAILY RECORD.—

SPECIFIC CONDUCTANCE: (Upper probe) Maximum recorded, 37,300 microsiemens, Nov. 7, 2002; minimum recorded, 178 microsiemens, Mar. 2, 2004.

(Lower probe) Maximum recorded, 38,200 microsiemens, Oct. 28, 2003; minimum recorded, 179 microsiemens, Mar. 2, 2004.

WATER TEMPERATURE: (Upper probe) Maximum recorded, 24.0°C, Sept. 6, 2004; minimum recorded, 7.5°C, Jan. 6, 7, 2004.

(Lower probe) Maximum recorded, 23.0°C, July 18, 2003; minimum recorded, 7.5°C, Jan. 6, 2004.

EXTREMES FOR CURRENT YEAR.—

SPECIFIC CONDUCTANCE: (Upper probe) Maximum recorded, 36,700 microsiemens, Nov. 25; minimum recorded, 178 microsiemens, Mar. 2.

(Lower probe) Maximum recorded, 38,200 microsiemens, Oct. 28; minimum recorded, 179 microsiemens, Mar. 2.

WATER TEMPERATURE: (Upper probe) Maximum recorded, 24.0°C, Sept. 6; minimum recorded, 7.5°C, Jan. 6, 7.

(Lower probe) Maximum recorded, 22.5°C, Sept. 7; minimum recorded, 7.5 °C, Jan. 6.

SPECIFIC CONDUCTANCE, WATER, UNFILTERED, MICROSIEMENS PER CENTIMETER AT 25 DEGREES CELSIUS

WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

(UPPER PROBE)

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	---	---	31800	20300	32200	19800	19200	3490	23700	6860	3200	186
2	---	---	32700	19400	32800	20100	14600	1920	24700	8540	2090	178
3	---	---	31700	20000	32200	20400	12600	349	23700	7560	1330	179
4	---	---	31300	19900	32100	19900	12200	307	19900	5660	---	---
5	---	---	31800	20200	33500	19900	12100	303	18200	3990	841	192
6	---	---	30300	19800	33700	19700	14400	311	17100	2980	407	195
7	---	---	32800	19600	33700	20000	15900	344	14700	1860	460	195
8	---	---	34900	20000	32500	18500	14700	336	12700	1540	608	199
9	---	---	34300	20400	30100	18000	16800	336	12000	1520	1750	202
10	---	---	33100	19800	31200	17200	14000	359	12900	1360	3960	202
11	---	---	32200	19800	28100	15000	12300	310	16900	1740	7580	209
12	---	---	31900	20000	28100	13500	10700	315	17500	2520	9330	214
13	---	---	33500	20500	25000	12400	10500	275	18800	3830	11800	227
14	---	---	34200	20100	23900	11700	12900	554	20700	5100	11000	233
15	---	---	32200	19900	20200	9840	17300	1480	21700	6360	12800	241
16	---	---	30400	18800	20300	8080	17400	2690	24300	7630	14700	266
17	---	---	---	---	22900	8130	20200	4600	23800	7270	16000	360
18	---	---	29900	17900	24400	8960	21300	4270	21100	5750	14600	475
19	---	---	31900	18000	28600	10700	20400	3970	15100	2550	13500	516
20	---	---	33300	20100	28700	11200	21400	3720	13500	1120	13100	485
21	---	---	33100	19900	29500	10500	21100	3460	8390	439	13700	574
22	---	---	33200	19200	29100	9790	21700	3160	2770	257	14300	613
23	---	---	34000	18800	30300	10600	19700	3160	855	222	13000	643
24	---	---	35700	20100	30100	10700	20000	3040	616	203	12300	492
25	---	---	36700	20600	27000	8950	16100	2960	2260	202	11500	410
26	---	---	35300	20200	20200	5660	16000	2860	2210	184	14600	554
27	---	---	31700	19500	15400	4010	19100	3520	344	186	14100	564
28	---	---	32600	19500	13500	3440	19100	4470	345	189	16200	1150
29	---	---	31800	19000	19300	2610	21700	4740	429	195	22500	3360
30	36300	24000	31000	19300	14600	3730	21900	6370	---	---	24800	6490
31	33600	22500	---	---	18900	3470	22400	6510	---	---	23300	5830
MONTH	---	---	---	---	33700	2610	22400	275	24700	184	---	---

11455780 SUISUN BAY AT BENICIA BRIDGE, NEAR BENICIA, CA—Continued

SPECIFIC CONDUCTANCE, WATER, UNFILTERED, MICROSIEMENS PER CENTIMETER AT 25 DEGREES CELSIUS
 WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
 (UPPER PROBE)

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	20800	6250	26300	11500	28700	11000	33900	16600	32800	15300	29700	17500
2	21600	7410	26200	10700	29700	12400	33900	16000	32500	15000	30700	17800
3	24200	8620	26600	10900	30800	12600	34000	16400	29800	13800	31700	17800
4	23000	8240	28000	11700	32500	14200	33900	16300	28300	13900	30500	17500
5	22800	7300	29300	11900	33700	14700	32900	15700	29200	13200	32300	17600
6	21800	5560	29300	11600	33900	17300	31000	15100	29300	14100	32800	18100
7	22100	4840	28000	10900	32800	18300	30500	15000	28800	13800	33900	18800
8	23000	4750	27300	10300	31000	16900	30300	15100	29400	14200	33800	19500
9	20800	3690	26700	9780	28900	15600	30700	14600	30200	14900	32500	19300
10	19900	2730	24700	8700	29000	15400	29500	15000	29700	15100	31800	20600
11	17600	1800	21100	7390	30000	15300	30300	14500	29600	15300	32100	19900
12	18600	939	23300	7320	30000	16000	30800	15400	30900	16500	33800	20200
13	14000	1080	---	---	30100	16400	30500	15600	30900	15900	33400	19900
14	12100	853	---	---	30400	16100	30400	14900	31300	16000	32100	18700
15	13300	933	---	---	31700	16100	30900	14600	30300	14700	31100	19000
16	14300	1030	---	---	---	---	31100	14500	29700	14300	31400	19200
17	14300	1270	---	---	34400	19600	31200	15000	29400	14200	32500	20200
18	15300	801	---	---	33800	18300	31000	14600	29900	15300	32900	20200
19	13700	659	---	---	33200	17600	30600	14300	29400	16300	33100	19500
20	16200	830	---	---	32500	16600	28900	13700	30800	17000	30800	18500
21	15200	967	---	---	30600	15600	28200	13200	32100	18100	31000	17200
22	15000	940	---	---	31300	15200	27800	14100	32500	17900	32000	17500
23	15500	936	---	---	29100	14700	29200	13600	31400	17400	29600	18200
24	19300	1700	---	---	28100	13200	30200	13300	33100	17300	32400	17800
25	20700	2880	---	---	29900	13500	30900	13700	33100	17100	31900	18800
26	20900	3420	---	---	30800	14400	32600	15000	31800	16900	33100	19000
27	22800	5170	21500	7160	31500	15200	33700	15700	31600	16300	32300	19400
28	24100	7300	25500	8400	32600	16100	34200	16600	33100	16500	32200	19000
29	22900	8080	23700	8160	33500	18000	34200	16700	34100	17900	33400	21700
30	24500	11000	26800	8920	33600	17700	34400	16500	33700	18300	33600	21600
31	---	---	26900	9610	---	---	34100	15900	32000	18200	---	---
MONTH	24500	659	---	---	---	---	34400	13200	34100	13200	33900	17200

11455780 SUISUN BAY AT BENICIA BRIDGE, NEAR BENICIA, CA—Continued

SPECIFIC CONDUCTANCE, WATER, UNFILTERED, MICROSIEMENS PER CENTIMETER AT 25 DEGREES CELSIUS

WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

(LOWER PROBE)

DAY	MAX		MIN		MAX		MIN		MAX		MIN		MAX		MIN	
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH					
1	36100	21000	35000	21200	32700	19800	26200	5480	---	---	21300	188				
2	36900	19200	34000	20200	32400	21100	20400	2260	---	---	18200	179				
3	---	---	32300	20800	32100	20700	22600	891	---	---	17700	180				
4	36600	21400	31800	21200	32000	20300	23600	543	---	---	---	---				
5	35300	20800	31900	21700	33400	20000	23400	450	---	---	7860	190				
6	35200	21200	32000	20100	33500	19000	23800	576	---	---	1020	192				
7	35000	22800	33200	20500	33600	19300	23900	551	---	---	572	192				
8	34600	23000	34600	20700	---	---	22600	527	---	---	2570	195				
9	33800	22800	35000	20300	33400	17800	23300	527	---	---	6030	196				
10	32900	21800	34300	20100	33700	16700	20400	498	---	---	8580	198				
11	33600	21700	34400	19800	30200	15200	20000	439	---	---	12300	200				
12	34000	20400	35400	19900	30100	13600	19400	438	22900	5310	17500	208				
13	35500	20700	34900	20100	28900	12900	20600	360	25500	6850	22400	214				
14	36300	21900	35100	19900	26700	11500	20800	1390	27400	6630	23500	221				
15	36700	22300	34500	19900	---	---	23900	6390	26600	7140	24500	229				
16	35700	20400	33500	19100	---	---	26100	4060	27900	8360	24600	251				
17	36400	17200	---	---	---	---	25900	5060	26900	8170	22700	438				
18	36300	21000	30900	17900	---	---	24400	4570	22300	6440	20900	756				
19	36000	21900	31900	18400	---	---	23600	4340	16600	3990	17800	820				
20	---	---	33000	20900	---	---	24100	4170	16900	2220	17100	720				
21	---	---	32900	20100	---	---	23500	4070	12900	942	16000	965				
22	---	---	32800	18900	---	---	23500	3840	9020	378	16700	1080				
23	34700	23400	33900	19300	---	---	23100	3980	1420	237	16800	956				
24	34300	22200	35600	20200	---	---	22800	3960	862	213	16700	721				
25	35500	20600	35900	20800	---	---	20100	3830	7390	220	20300	611				
26	36700	21500	35100	19700	---	---	18800	3740	7620	197	22200	713				
27	37600	22000	34800	19500	---	---	21100	4210	540	190	25900	1150				
28	38200	22900	35700	19100	---	---	---	---	11500	191	29200	3390				
29	37800	23500	35300	19000	---	---	---	---	19700	198	33300	12700				
30	36700	24500	34500	19600	---	---	---	---	---	---	32200	7640				
31	36100	22400	---	---	23800	5990	---	---	---	---	28200	6900				
MONTH	---	---	---	---	---	---	---	---	---	---	---	---				
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER					
1	27300	8070	26800	14100	29100	12900	34100	17400	34100	16100	32000	18900				
2	27000	9540	26800	14000	30400	13300	34400	16700	33900	15800	32000	19600				
3	25600	10800	26800	12700	31500	13200	34800	16600	32300	14500	32900	20000				
4	24100	9700	28400	12500	32900	15000	34200	16500	31400	14700	35100	19400				
5	23700	8730	29600	13100	34300	16800	33400	16800	30200	15000	37000	18700				
6	23100	6870	29400	12700	34400	19400	33000	16100	31400	16900	37000	19500				
7	22700	5760	29400	12300	33800	19000	32300	16000	33100	18700	36900	19700				
8	24300	5470	29800	11400	32700	18000	30400	17000	34600	17500	---	---				
9	24800	4880	29100	11200	31200	16600	30700	17400	33500	18500	---	---				
10	25100	3920	28300	10400	29600	16400	32100	18600	33800	15800	35600	21800				
11	25400	2950	26000	9470	31000	18500	32800	16500	34500	17100	35700	20800				
12	24900	2210	26800	8930	31000	19200	32100	17200	34500	18200	34700	20900				
13	21900	1710	26000	10500	31000	19100	32600	16800	33800	16300	34300	20700				
14	20100	1270	25900	13100	31900	17100	32600	16200	33600	17300	33200	19600				
15	19200	1290	25300	13400	33100	18000	33000	15800	32800	16100	32500	20100				
16	18500	1600	26600	13200	---	---	33000	15600	32300	15500	32600	22000				
17	18500	2530	27100	12500	34300	20000	32800	15300	31800	15500	34100	22200				
18	18400	1450	26000	11200	33600	19100	32600	15600	31700	16500	33900	21100				
19	19300	1400	25800	10600	34100	18200	32400	14900	31300	18200	33600	20900				
20	20100	1840	26800	10900	33600	17400	32100	14600	32200	19700	33100	19400				
21	19000	1490	26200	10600	33700	16400	31300	14400	33600	21100	34100	18200				
22	18900	1400	26300	10800	33200	15900	30700	15500	33600	21500	33800	17800				
23	25300	1390	25600	10800	33200	15600	29900	15500	34200	19200	33700	18000				
24	28100	2740	---	---	30900	15000	31100	17200	35400	18000	33700	18100				
25	28000	4270	---	---	30200	16200	31900	18600	35600	17800	33700	19700				
26	30800	5770	---	---	31300	16900	32600	18100	35400	18000	33600	20300				
27	32800	9500	28200	10800	32100	20000	33800	18400	35300	17600	33000	21700				
28	32600	11500	26400	12200	33100	18500	34100	18200	35700	17500	33200	23000				
29	29200	12300	27800	11600	33500	19200	34800	17700	---	---	34000	23100				
30	29700	13700	27900	13400	33800	18500	35300	17200	35100	19200	34600	25200				
31	---	---	28400	12000	---	---	35200	17000	33700	19000	---	---				
MONTH	32800	1270	---	---	---	---	35300	14400	---	---	---	---				

11455780 SUISUN BAY AT BENICIA BRIDGE, NEAR BENICIA, CA—Continued

TEMPERATURE, WATER, DEGREES CELSIUS, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
(UPPER PROBE)

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	---	---	17.0	16.0	12.0	11.5	10.0	9.0	11.0	9.5	11.5	11.0
2	---	---	16.5	16.0	12.0	11.5	9.5	9.0	11.0	10.0	11.5	11.0
3	---	---	16.5	15.0	12.5	11.5	9.5	8.5	11.0	10.0	11.5	11.0
4	---	---	16.5	15.0	12.0	11.5	9.5	8.0	11.0	10.0	---	---
5	---	---	15.5	15.0	12.0	11.5	9.0	8.0	11.0	10.0	11.5	11.0
6	---	---	15.5	15.0	12.5	12.0	9.0	7.5	11.0	10.0	11.5	11.0
7	---	---	15.0	15.0	12.5	12.0	9.0	7.5	11.0	10.0	12.5	11.0
8	---	---	15.0	14.5	12.5	11.5	9.0	8.0	11.0	10.0	12.5	11.5
9	---	---	15.0	14.5	12.0	11.5	9.5	8.0	11.0	9.5	13.5	12.0
10	---	---	15.5	14.5	12.0	11.5	9.0	8.0	10.5	10.0	13.5	12.5
11	---	---	15.5	14.5	12.0	11.0	9.5	8.5	10.5	10.0	14.0	13.0
12	---	---	15.5	14.5	11.5	11.0	9.5	8.5	10.5	10.0	15.0	13.0
13	---	---	15.0	14.5	11.5	11.0	9.5	8.5	11.0	10.0	15.5	13.5
14	---	---	15.0	14.5	11.5	11.0	9.5	9.0	11.0	10.0	16.5	14.0
15	---	---	14.5	14.0	11.0	11.0	10.0	9.0	11.0	10.5	16.5	14.5
16	---	---	15.0	14.0	11.0	10.5	10.0	9.5	11.5	11.0	16.5	14.5
17	---	---	---	---	11.0	10.5	10.0	9.5	11.5	11.0	17.0	15.0
18	---	---	15.0	14.0	11.0	10.5	10.5	9.5	12.0	11.0	17.5	15.5
19	---	---	15.0	14.0	11.0	10.5	10.5	9.5	12.0	11.0	17.0	16.0
20	---	---	14.5	14.0	11.0	10.5	11.0	9.5	11.5	11.0	17.5	16.0
21	---	---	14.0	13.5	11.0	10.5	11.0	9.5	11.5	11.0	17.0	16.0
22	---	---	14.0	13.0	11.0	10.5	10.5	9.5	11.5	11.0	17.0	16.0
23	---	---	13.5	12.0	11.0	10.5	10.5	9.5	12.0	11.0	17.0	16.0
24	---	---	13.0	12.0	11.0	10.5	10.5	9.5	12.0	11.5	16.5	15.5
25	---	---	12.5	12.0	11.0	10.0	10.0	9.5	12.0	11.5	16.5	15.5
26	---	---	12.5	12.0	10.5	10.0	10.0	9.5	12.0	11.5	16.0	15.0
27	---	---	12.0	11.5	10.0	9.5	10.5	9.5	11.5	11.5	16.0	15.0
28	---	---	12.0	11.5	10.0	9.5	10.5	9.5	11.5	11.0	16.5	15.0
29	---	---	12.0	11.5	10.0	9.0	10.5	9.5	11.5	11.0	17.5	14.5
30	18.0	17.0	11.5	11.5	9.5	9.0	11.0	10.0	---	---	16.0	15.0
31	17.5	16.5	---	---	10.0	9.0	11.0	10.0	---	---	16.5	15.0
MONTH	---	---	---	---	12.5	9.0	11.0	7.5	12.0	9.5	---	---
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	16.0	15.0	19.0	17.0	20.0	18.0	20.0	19.0	20.5	19.5	21.5	20.5
2	16.5	15.0	20.0	17.0	19.5	18.0	20.5	19.0	20.0	19.5	21.5	20.5
3	16.5	15.0	19.5	17.5	20.0	18.5	20.5	19.0	20.5	19.0	21.5	20.5
4	15.5	15.0	19.0	17.5	19.5	18.0	20.5	19.5	20.5	19.5	22.0	21.0
5	15.5	15.0	19.0	17.5	19.5	18.0	20.5	19.5	21.0	19.5	22.5	21.5
6	15.5	14.5	18.5	17.0	19.5	18.5	21.0	19.5	21.0	19.5	24.0	21.5
7	15.5	14.5	19.0	17.5	19.5	18.5	20.5	19.5	21.5	20.0	23.5	21.5
8	16.0	14.5	19.0	17.5	19.5	18.0	20.5	19.0	22.0	20.5	23.5	21.5
9	16.5	15.0	19.0	17.5	19.5	18.0	20.0	19.0	21.5	20.5	23.0	21.5
10	17.0	15.0	19.0	17.5	20.0	18.5	20.5	19.0	21.5	20.5	22.5	21.5
11	17.0	15.5	19.0	17.5	20.5	18.5	21.5	19.0	22.0	20.5	22.5	21.5
12	16.5	15.5	19.0	17.5	20.5	18.5	21.0	19.0	21.0	20.5	22.0	21.5
13	16.0	15.5	---	---	20.0	19.0	21.0	19.5	21.0	20.0	22.0	21.0
14	16.5	15.5	---	---	20.5	19.0	20.5	19.5	20.5	20.0	22.0	21.0
15	16.5	15.5	---	---	21.5	19.0	21.0	19.5	21.0	19.5	22.0	21.0
16	16.5	15.0	---	---	---	---	21.0	19.5	21.0	19.5	22.0	21.0
17	16.0	15.0	---	---	20.0	19.0	21.0	20.0	21.0	20.0	22.0	21.0
18	15.5	15.0	---	---	20.5	19.0	21.5	20.0	21.0	20.0	21.5	20.0
19	15.5	15.0	---	---	20.0	19.0	21.5	20.0	21.0	20.0	20.5	19.5
20	15.5	15.0	---	---	20.0	18.5	22.0	20.5	21.0	20.0	20.5	19.5
21	15.5	15.0	---	---	20.5	18.5	22.0	20.5	21.0	20.0	21.0	19.5
22	16.0	14.5	---	---	20.0	19.0	22.0	21.0	20.5	20.0	22.0	19.5
23	16.5	15.0	---	---	20.5	18.5	22.0	21.0	21.0	20.0	21.5	19.5
24	17.5	15.0	---	---	20.0	19.0	22.0	21.0	21.5	20.0	22.0	20.0
25	18.5	15.5	---	---	20.5	19.0	22.0	21.0	21.0	20.0	20.5	19.5
26	19.5	16.5	---	---	21.0	19.5	22.0	21.0	23.0	20.0	21.0	19.5
27	19.0	16.5	19.0	17.5	21.5	19.5	22.0	20.5	22.5	20.5	20.0	19.5
28	19.5	17.0	19.5	18.0	21.0	19.5	21.0	20.5	23.0	20.5	20.0	19.0
29	19.5	17.0	20.0	18.0	20.0	19.5	21.0	20.0	21.5	21.0	19.5	19.0
30	19.0	17.0	20.5	18.0	20.0	19.5	20.5	20.0	21.5	21.0	19.5	18.5
31	---	---	21.0	18.0	---	---	20.5	19.5	21.5	20.5	---	---
MONTH	19.5	14.5	---	---	---	---	22.0	19.0	23.0	19.0	24.0	18.5

11455780 SUISUN BAY AT BENICIA BRIDGE, NEAR BENICIA, CA—Continued

TEMPERATURE, WATER, DEGREES CELSIUS, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

(LOWER PROBE)

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	19.5	19.0	17.0	16.5	12.0	11.5	10.5	9.5	---	---	12.0	11.0
2	19.5	19.0	16.5	16.0	12.0	11.5	10.0	9.0	---	---	12.0	11.0
3	19.0	18.5	16.0	15.5	12.0	12.0	10.0	8.5	---	---	12.0	11.0
4	19.0	18.5	16.0	15.5	12.0	12.0	10.0	8.0	---	---	---	---
5	19.0	18.5	15.5	15.5	12.0	12.0	10.0	8.0	---	---	11.5	11.0
6	19.0	18.5	15.5	15.0	12.0	12.0	10.0	7.5	---	---	11.5	11.0
7	19.0	18.5	15.0	15.0	12.5	12.0	10.0	8.0	---	---	12.0	11.5
8	19.0	18.5	15.0	14.5	12.5	12.0	10.0	8.0	---	---	12.5	12.0
9	19.0	18.5	15.0	14.5	12.0	11.5	10.0	8.0	---	---	13.0	12.0
10	19.0	18.0	15.0	14.5	12.0	11.5	9.5	8.0	---	---	13.5	12.5
11	18.5	18.5	15.0	14.5	12.0	11.0	10.0	8.5	---	---	14.0	13.0
12	18.5	18.0	15.0	14.5	11.5	11.0	10.0	9.0	11.0	10.5	14.5	13.0
13	18.5	18.0	15.0	14.5	11.5	11.0	10.0	9.0	11.5	10.5	15.0	13.0
14	18.5	18.0	15.0	14.5	11.5	11.0	10.0	9.0	11.0	10.5	15.5	13.5
15	18.5	18.0	15.0	14.5	---	---	10.5	9.5	11.5	10.5	16.0	13.5
16	18.5	18.0	14.5	14.0	---	---	10.5	9.5	11.5	11.0	16.5	14.0
17	18.5	18.0	---	---	---	---	10.5	9.5	11.5	11.0	17.0	14.5
18	18.5	18.0	15.0	14.0	---	---	10.5	9.5	12.0	11.5	17.0	15.0
19	18.5	18.0	14.5	14.0	---	---	10.5	9.5	12.0	11.0	17.0	15.5
20	18.5	18.0	14.5	14.0	---	---	10.5	10.0	12.0	11.0	17.0	16.0
21	19.0	18.0	14.5	14.0	---	---	10.5	10.0	11.5	11.0	17.0	16.0
22	18.5	18.0	14.0	13.0	---	---	10.5	9.5	11.5	11.0	17.0	16.0
23	18.5	18.0	13.5	12.5	---	---	10.5	9.5	12.0	11.0	16.5	16.0
24	18.5	18.0	13.0	12.5	---	---	10.5	9.5	12.0	11.5	16.5	16.0
25	19.0	18.0	13.0	12.0	---	---	10.5	9.5	12.0	12.0	16.0	15.5
26	19.0	18.0	12.5	12.0	---	---	10.5	9.5	12.0	11.5	16.0	15.5
27	19.0	18.0	12.5	11.5	---	---	10.5	9.5	12.0	11.5	16.0	15.0
28	19.0	18.0	12.0	11.5	---	---	---	---	12.0	11.0	16.0	14.5
29	19.0	18.0	12.0	11.5	---	---	---	---	12.0	11.0	16.0	14.0
30	18.0	17.0	12.0	11.5	---	---	---	---	---	---	16.0	14.5
31	17.5	17.0	---	---	10.0	9.0	---	---	---	---	16.0	14.5
MONTH	19.5	17.0	---	---	---	---	---	---	---	---	---	---
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	16.0	14.5	18.5	17.0	19.0	18.5	19.5	19.0	20.5	20.0	21.5	21.0
2	15.5	14.5	18.5	17.0	19.5	18.5	20.0	19.0	20.5	19.5	21.5	21.0
3	16.0	14.5	19.0	17.5	19.5	18.5	20.0	19.5	20.0	19.5	21.5	21.0
4	15.5	15.0	18.5	17.5	19.5	18.5	20.5	19.5	20.5	20.0	21.5	21.0
5	15.5	15.0	18.5	17.5	19.5	18.5	20.5	19.5	20.5	20.0	21.5	21.0
6	15.0	14.5	18.5	18.0	19.5	18.5	20.5	19.5	20.5	20.0	22.0	21.0
7	15.0	15.0	18.5	18.0	19.5	18.5	20.0	19.5	20.5	20.0	22.5	21.5
8	15.5	15.0	19.0	18.0	19.0	18.5	20.0	19.5	21.0	20.5	---	---
9	16.0	15.0	19.0	18.0	19.5	18.5	20.0	19.5	21.0	20.5	---	---
10	16.5	15.5	19.0	18.0	19.5	19.0	19.5	19.0	21.0	20.5	22.0	21.5
11	16.5	15.5	18.5	18.0	19.5	19.0	20.0	19.0	21.0	20.5	22.0	21.5
12	16.5	15.5	19.0	18.0	19.5	19.0	20.0	19.5	21.0	20.5	22.0	21.5
13	16.0	15.5	19.0	18.0	19.5	19.0	20.0	19.5	21.0	20.5	21.5	21.0
14	16.5	15.5	19.0	18.0	19.5	19.0	20.0	19.5	20.5	20.0	21.5	21.0
15	16.5	15.5	19.0	18.0	20.0	19.5	20.0	19.5	20.5	20.0	21.5	21.0
16	16.0	15.5	18.5	18.0	---	---	20.5	20.0	20.5	20.0	22.0	21.5
17	16.0	15.5	18.5	18.0	20.0	19.0	20.5	20.0	21.0	20.0	22.0	21.0
18	15.5	15.5	18.0	17.5	19.5	19.0	21.0	20.0	21.0	20.5	21.5	20.0
19	15.5	15.0	18.5	17.5	19.5	19.0	21.0	20.5	21.0	20.5	21.0	19.5
20	15.5	15.0	18.5	17.5	19.5	18.5	21.5	20.5	21.0	20.5	20.5	19.5
21	15.5	15.0	18.5	17.5	20.0	19.0	21.5	21.0	21.0	20.5	20.0	19.5
22	15.5	15.0	18.0	17.0	20.0	19.0	21.5	21.0	20.5	20.5	20.0	19.5
23	16.0	15.0	18.0	17.0	20.0	19.0	21.5	21.0	20.5	20.0	20.0	19.5
24	16.5	14.5	---	---	20.0	19.0	21.5	21.0	20.5	20.5	20.5	20.0
25	17.5	15.0	---	---	20.0	19.5	21.0	21.0	20.5	20.5	20.5	20.0
26	17.5	15.0	---	---	20.0	19.5	21.5	21.0	21.0	20.5	20.5	19.5
27	18.0	15.0	18.5	18.0	20.0	19.5	21.0	20.5	21.0	20.5	20.0	19.5
28	18.0	15.5	19.0	18.0	20.5	20.0	21.0	20.5	21.5	21.0	20.0	19.5
29	18.5	16.5	19.0	18.0	20.0	19.5	20.5	20.0	21.5	21.0	19.5	19.0
30	18.5	16.5	19.0	18.0	20.0	19.5	20.5	20.0	21.5	21.0	19.5	19.0
31	---	---	19.0	18.5	---	---	20.5	20.0	21.5	21.0	---	---
MONTH	18.5	14.5	---	---	---	---	21.5	19.0	21.5	19.5	---	---

11455820 CARQUINEZ STRAIT AT CARQUINEZ BRIDGE, NEAR CROCKETT, CA

LOCATION.—Lat 38°03'68", long 122°13'53", unsurveyed, T.3 N., R.3 W., Solano County, Hydrologic Unit 18050001, at north side of center bridge pier, directly under Carquinez Bridge.

PERIOD OF DAILY RECORD.—

SPECIFIC CONDUCTANCE: October 1998 to current year.

WATER TEMPERATURE: October 1998 to current year.

INSTRUMENTATION.—Water-quality monitor since October 1998.

REMARKS.—Interruptions in record were due to malfunction of sensing and (or) recording instruments. Upper probe is set about 30 ft below water surface relative to Mean Lower Low Water (MLLW). Lower probe is set about 72 ft below water surface relative to MLLW. MLLW is about 78 ft deep. The upper conductivity record is rated excellent except for the following periods of fouling and calibration drift: Jan. 22 to Feb. 10, June 4–14, and Sept. 7–30, which are rated good. The lower conductivity record is rated excellent. Upper and lower temperature records are rated excellent.

EXTREMES FOR PERIOD OF DAILY RECORD.—

SPECIFIC CONDUCTANCE: (Upper probe) Maximum recorded, 42,400 microsiemens, Nov. 13, 2003; minimum recorded, 170 microsiemens, Mar. 11, 2000.

(Lower probe) Maximum recorded, 43,200 microsiemens, Sept. 11, 2001; minimum recorded, 166 microsiemens, Mar. 11, 2000.

WATER TEMPERATURE: (Upper probe) Maximum recorded, 22.5°C, Sept. 5, 8, 2004; minimum recorded, 7.5°C, several days in December 1998 and January 1999.

(Lower probe) Maximum recorded, 22.0°C, Aug. 13–16, 2003, July 21, Sept. 8, 9, 2004; minimum recorded, 8.5°C, Jan. 4–10, 2004.

EXTREMES FOR CURRENT YEAR.—

SPECIFIC CONDUCTANCE: (Upper probe) Maximum recorded, 42,400 microsiemens, Nov. 13; minimum recorded, 192 microsiemens, Feb. 27.

(Lower probe) Maximum recorded, 42,900 microsiemens, Oct. 17; minimum recorded, 205 microsiemens, Feb. 27.

WATER TEMPERATURE: (Upper probe) Maximum recorded, 22.5°C, Sept. 5, 8; minimum recorded, 8.0°C, Jan. 6.

(Lower probe) Maximum recorded, 22.0°C, July 21, Sept. 8, 9; minimum recorded, 8.5°C, Jan. 4–10.

SPECIFIC CONDUCTANCE, WATER, UNFILTERED, MICROSIEMENS PER CENTIMETER AT 25 DEGREES CELSIUS

WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

(UPPER PROBE)

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	---	---	39000	26600	---	---	28200	13100	30000	12500	22400	1800
2	---	---	38300	26400	---	---	25000	7100	31600	15500	20800	248
3	---	---	37700	27600	---	---	23900	3100	31500	13100	20400	248
4	---	---	37900	26900	---	---	26700	1960	30000	11000	15800	229
5	---	---	38300	28100	---	---	24500	2160	29800	9170	15500	226
6	---	---	38900	27800	---	---	26800	3440	29600	8300	15600	220
7	39400	29000	39500	27600	---	---	26700	4000	27900	6800	16000	225
8	39000	29900	40200	29200	---	---	25500	3640	26800	7020	16400	250
9	39000	29800	40100	27100	37800	23000	26400	4440	25900	7490	18300	345
10	38400	27800	40100	26600	36500	22300	24100	3430	25200	7530	20400	345
11	39400	28100	40300	26100	35100	19800	23400	3480	27400	8470	21400	672
12	---	---	40500	27400	34900	18400	22300	3900	29900	11400	23500	1450
13	---	---	42400	27700	33400	18300	24400	4570	30500	11900	24900	2300
14	---	---	---	---	30600	17600	26300	5830	31400	11400	25200	2290
15	---	---	---	---	29300	15600	28000	10400	31200	12800	26900	3720
16	---	---	---	---	32100	12900	29300	11700	31600	13700	26300	4910
17	---	---	---	---	---	---	29600	10400	30500	14100	27700	6060
18	---	---	---	---	33800	17300	28700	9860	27200	10400	27300	7320
19	39700	28800	---	---	34000	19500	28700	9200	24800	6600	26600	6280
20	---	---	---	---	34700	17800	28900	9150	26100	4250	26600	5810
21	---	---	---	---	34400	16900	28200	8570	23600	1910	25900	7610
22	---	---	---	---	34300	15700	28800	8760	19500	665	---	---
23	---	---	---	---	35700	16800	28600	9600	16400	294	---	---
24	40300	28900	---	---	34500	16200	27600	9710	15800	286	25400	6430
25	40700	28500	---	---	32800	14300	27300	9590	13300	338	23400	5610
26	---	---	---	---	31500	11200	25300	9410	8750	230	24700	5640
27	41700	29300	---	---	28600	10100	27100	9280	11000	192	28700	5520
28	41900	29600	---	---	25600	7770	28000	11700	17800	585	30700	7620
29	---	---	---	---	29000	7950	29300	12000	17600	1330	34600	10300
30	40200	31900	---	---	27100	7750	30900	14700	---	---	34000	14500
31	39800	28800	---	---	27600	10800	29800	13400	---	---	31200	12600
MONTH	---	---	---	---	---	---	30900	1960	31600	192	---	---

11455820 CARQUINEZ STRAIT AT CARQUINEZ BRIDGE, NEAR CROCKETT, CA—Continued

SPECIFIC CONDUCTANCE, WATER, UNFILTERED, MICROSIEMENS PER CENTIMETER AT 25 DEGREES CELSIUS
 WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
 (UPPER PROBE)

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	31600	13800	32200	19800	35100	18900	38100	22600	38800	22800	35800	25100
2	31500	15800	33200	19400	35600	18700	38700	22200	38600	22600	36600	26200
3	31700	17300	33300	19900	36000	19700	38000	22000	37000	21300	37300	25600
4	30500	18200	33700	20500	36900	21300	38300	21400	36800	22100	37300	24400
5	30700	16600	34700	19800	37200	23000	37500	21500	36000	21200	36400	23200
6	31100	14000	35200	18400	37100	24400	36700	22200	36400	20800	37600	23600
7	31000	12500	35000	17500	35900	25200	35600	22800	37400	24500	39400	23500
8	29900	11500	34500	16400	35400	23600	36300	22100	37800	23200	39500	26600
9	30500	10300	33900	15800	34900	21500	36600	23300	37200	23700	39800	26700
10	30600	8670	31200	15200	34800	21500	38100	25000	37500	23900	39700	27800
11	29300	7360	29700	13600	35500	23100	37900	23700	36400	22200	38700	26900
12	29800	6430	31700	13000	35500	24700	37700	23100	36400	22600	37800	28100
13	25500	6870	32100	15000	35900	25400	37900	23900	36800	23900	37700	27000
14	25900	6720	32200	19000	36100	23800	38300	23100	36500	24600	38100	26500
15	26400	6770	32800	19700	37900	23800	38200	21800	36300	22000	38300	27600
16	27300	7900	33000	19200	38600	24400	37900	22000	36100	22100	38400	28300
17	27400	9370	33300	19900	38300	27900	37800	22300	36800	21900	38800	29000
18	26300	7900	30000	16700	39000	25300	37900	22300	36200	23300	38500	28500
19	27300	7160	30500	14400	38800	24700	37200	21400	36300	25000	37200	28500
20	26000	8280	32900	15300	38100	23900	35800	21500	37200	25300	39100	26100
21	25900	7640	31600	15400	37600	23300	36800	20900	37900	26800	37700	23600
22	25400	6120	32400	15200	37200	22200	35400	22800	36200	27200	37600	23200
23	29400	7760	31100	14400	35800	21400	36700	22400	36800	25100	39800	24600
24	30000	8030	31300	17300	35300	21100	36600	23300	38900	24700	39300	24900
25	31000	8990	31300	14900	35900	21600	37400	25600	39000	24800	39100	25800
26	33500	9780	32200	15000	36300	23300	38300	24500	38700	23900	38500	26600
27	35200	12900	32200	14500	37300	24800	38300	24600	39000	22800	38300	25900
28	34900	15400	32200	16600	37100	25400	38200	25300	39100	23800	37800	27800
29	32200	14200	31800	16900	38300	26600	38900	24600	39200	24700	38400	29100
30	33400	19000	32800	17800	38200	24600	38900	23500	38200	25700	37200	26500
31	---	---	34500	18600	---	---	39000	23300	37500	24800	---	---
MONTH	35200	6120	35200	13000	39000	18700	39000	20900	39200	20800	39800	23200

11455820 CARQUINEZ STRAIT AT CARQUINEZ BRIDGE, NEAR CROCKETT, CA—Continued

SPECIFIC CONDUCTANCE, WATER, UNFILTERED, MICROSIEMENS PER CENTIMETER AT 25 DEGREES CELSIUS
 WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
 (LOWER PROBE)

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	---	---	41800	28200	40800	29400	33000	15400	34000	15600	29500	2960
2	---	---	40000	28900	39200	30600	29900	7830	33900	18300	28700	266
3	---	---	39000	30700	38700	30200	29000	4240	32500	14000	28000	253
4	---	---	39000	29400	39600	29000	29500	2940	32200	11900	23800	233
5	---	---	39700	30100	39800	28800	29500	3410	31500	10300	22200	223
6	---	---	39600	29700	39800	28500	30400	4680	30900	9760	19600	223
7	39900	30500	40500	29600	39400	27400	29200	5040	29900	7900	19000	222
8	39600	31100	41000	30100	39600	24500	29200	5090	29100	8860	19100	252
9	39800	31200	40400	28100	39000	24800	28900	5610	28900	9870	20300	369
10	38700	29200	40600	27300	38200	23400	28000	5210	29000	11200	21800	386
11	40300	29000	40800	27500	36600	20700	27300	6280	29400	15700	24000	1000
12	40600	29400	41400	28600	37100	20000	28900	6370	31000	15200	25900	2480
13	41300	29900	41800	28700	36300	20000	29300	7090	31700	15400	27300	3290
14	41700	30400	41000	27600	33800	19900	30300	9760	32600	15300	28200	3490
15	---	---	40400	28200	35400	18000	32000	16200	32500	14900	28900	5200
16	41900	30200	40700	27600	36200	17000	32700	14900	33200	16300	29400	7340
17	42900	29200	40400	27400	35300	23700	31500	13600	31700	15300	29000	8280
18	---	---	---	---	35600	23000	30400	11100	28600	11200	29500	8860
19	42000	28900	38700	28600	35100	22600	30300	10200	27400	7140	27900	7870
20	41500	28500	39300	30400	35800	19200	30400	9850	27700	4560	27700	8380
21	41100	30100	39200	29800	35300	18100	30200	9520	26300	1980	26900	10500
22	41100	31300	38800	27300	35200	16600	30400	9870	24400	728	---	---
23	40200	31100	40000	26800	36500	18100	30000	10900	21000	318	---	---
24	40900	29800	41100	27700	35200	17500	30300	12800	19600	310	27300	7550
25	---	---	41700	28400	34700	15200	29100	12100	21900	535	28200	8400
26	41800	29600	41000	27000	33200	11600	29400	12100	16400	250	28100	8730
27	---	---	40800	26300	32000	11000	29200	13900	24200	205	31500	8560
28	---	---	41300	25800	31100	9020	30100	17900	27600	1400	34100	14300
29	---	---	41000	27200	31100	10700	32200	19300	28900	3290	36900	20400
30	41000	32400	41400	28000	29700	14700	34600	19900	---	---	37000	17200
31	42300	28400	---	---	31600	17000	34100	16800	---	---	34300	15900
MONTH	---	---	---	---	40800	9020	34600	2940	34000	205	---	---
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	33300	17100	31900	22000	36600	21500	39700	24700	39800	23400	37600	26500
2	34200	17100	32200	22700	37000	20200	40600	23800	39400	23500	38900	26300
3	32700	19400	33300	20400	37900	21100	40300	24100	38100	22900	35900	27100
4	30700	19300	---	---	38600	22900	40600	23900	38000	24100	39600	24800
5	31200	17600	---	---	39100	25200	39500	23600	37300	25000	39300	27000
6	31700	14600	---	---	38800	25600	39200	23900	37000	26800	40800	27800
7	32300	13100	---	---	37200	27000	38300	26000	38500	27200	41500	28100
8	32300	11900	---	---	37300	24600	37300	26400	39200	26500	40600	28600
9	32100	10800	---	---	38000	24600	38400	27500	38800	26800	40000	28300
10	31600	9630	---	---	37000	25100	38900	27300	38400	24900	39800	27800
11	31400	9020	---	---	37500	26200	39600	25900	38800	24800	38800	27700
12	32300	8570	---	---	37800	27300	38700	25500	38800	25500	38600	28000
13	29600	8520	---	---	38000	26300	38700	24700	38000	24000	38100	27600
14	30400	9880	33100	23200	37800	25500	39100	23600	38000	25400	37800	26900
15	30100	9650	34000	22600	38600	25300	39200	23000	36400	23600	37800	27100
16	30000	12300	34400	20900	39700	25700	38900	22800	38000	23600	38600	28900
17	29000	11800	35200	21200	39100	28700	38800	23000	38300	24600	38000	28500
18	27600	9620	32800	18000	39900	26100	38600	23000	37800	25600	38200	29100
19	29300	9190	34700	16300	39900	25500	39200	22500	37400	25400	37600	28100
20	27800	10200	35400	16700	39500	24800	38200	23000	38200	27800	39400	25600
21	28100	8680	34700	16700	38600	23900	38400	23500	38900	29900	39700	25400
22	29400	6440	35600	16700	39100	24600	37500	25200	39400	28900	40200	25800
23	31000	9760	35600	16800	38900	24700	37600	25600	40000	28300	40600	24800
24	32500	11500	36300	19900	37400	24200	37700	28700	39800	25700	40100	26500
25	33100	13800	35800	18600	37400	25100	38600	28500	40100	25900	40100	27300
26	35500	16500	36000	17700	37800	28300	39300	27000	40100	24600	39000	27500
27	37100	20400	35700	20200	38800	28400	39200	25100	40200	23700	38900	28200
28	36800	22500	34800	22200	38600	27100	39000	26200	39800	23900	38200	28900
29	35900	21000	35100	22400	39700	27800	39700	25400	40400	26500	38600	29300
30	35000	21900	35500	23500	39500	25900	39700	24600	39300	27500	39000	29200
31	---	---	36100	21800	---	---	40000	24300	37900	26100	---	---
MONTH	37100	6440	---	---	39900	20200	40600	22500	40400	22900	41500	24800

11455820 CARQUINEZ STRAIT AT CARQUINEZ BRIDGE, NEAR CROCKETT, CA—Continued

TEMPERATURE, WATER, DEGREES CELSIUS, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

(UPPER PROBE)

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	---	---	17.0	16.0	---	---	10.5	9.5	11.0	10.5	12.0	11.0
2	---	---	16.5	15.5	---	---	10.0	9.5	11.0	10.5	12.0	11.5
3	---	---	16.0	15.5	---	---	10.0	9.0	11.0	10.5	12.0	11.5
4	---	---	16.0	15.0	---	---	10.5	8.5	11.0	10.5	12.0	11.5
5	---	---	15.5	15.0	---	---	---	---	11.0	10.5	12.0	11.5
6	---	---	15.5	14.5	---	---	10.0	8.0	11.0	10.5	12.0	11.5
7	19.0	18.0	15.0	14.5	---	---	10.0	8.5	11.0	10.5	12.0	11.5
8	18.5	18.0	15.0	14.5	---	---	10.0	8.5	11.0	10.5	12.5	12.0
9	18.5	18.0	15.0	14.5	12.0	11.5	10.0	8.5	11.5	10.5	13.0	12.0
10	18.5	18.0	---	---	12.0	11.5	10.0	8.5	11.5	10.5	13.5	12.5
11	18.5	18.0	---	---	12.0	11.5	10.0	8.5	11.5	10.5	14.0	13.0
12	18.5	18.0	---	---	11.5	11.5	10.0	9.0	11.5	10.5	14.5	13.0
13	18.5	18.0	---	---	12.0	11.5	10.5	9.0	11.5	10.5	15.0	13.0
14	18.5	17.5	---	---	11.5	11.5	10.5	9.0	11.5	11.0	15.0	13.5
15	18.5	17.5	---	---	11.5	11.0	10.5	9.5	11.5	11.0	15.5	13.5
16	18.0	17.5	---	---	11.5	11.0	10.5	10.0	11.5	11.0	16.0	14.0
17	18.5	17.5	---	---	11.5	11.0	11.0	10.0	11.5	11.5	16.5	14.0
18	18.5	17.5	---	---	11.0	11.0	10.5	10.0	12.0	11.5	16.5	14.5
19	18.0	17.5	---	---	11.0	11.0	11.0	10.0	12.0	11.5	16.5	15.0
20	18.0	17.5	---	---	11.0	10.5	11.0	10.0	12.0	11.0	17.0	15.0
21	18.0	17.5	---	---	11.0	11.0	11.0	10.0	12.0	11.0	16.5	15.5
22	18.0	17.5	---	---	11.5	10.5	11.0	10.0	12.0	11.0	---	---
23	18.5	17.5	---	---	11.5	10.5	11.0	10.0	11.5	11.0	---	---
24	18.5	17.5	---	---	11.5	10.5	11.0	10.0	12.0	11.5	16.5	15.5
25	18.5	17.5	---	---	11.5	10.5	11.0	10.0	12.0	12.0	16.0	15.5
26	18.5	17.5	---	---	11.0	10.0	11.0	10.0	12.0	11.5	15.5	15.0
27	18.5	17.5	---	---	10.5	10.0	11.0	10.0	12.0	11.5	15.5	14.5
28	18.5	17.5	---	---	10.5	9.5	11.0	10.0	12.0	11.5	16.0	14.5
29	---	---	---	---	10.5	9.5	11.0	10.5	12.0	11.0	16.0	14.0
30	18.0	17.0	---	---	10.5	9.5	11.0	10.5	---	---	16.0	14.0
31	17.5	16.5	---	---	10.5	9.5	11.0	10.5	---	---	16.0	14.5
MONTH	---	---	---	---	---	---	---	---	12.0	10.5	---	---
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	16.0	14.0	18.0	16.0	19.0	17.5	20.0	19.0	20.5	19.5	22.0	21.0
2	15.5	14.0	18.5	16.5	19.5	17.5	20.0	18.5	20.0	19.5	21.5	21.0
3	15.5	14.0	18.5	16.5	19.0	17.5	20.0	18.5	20.5	19.0	21.5	21.0
4	15.5	14.5	18.0	17.0	19.0	17.5	20.0	18.5	20.5	19.5	22.0	21.0
5	15.5	14.5	18.5	17.0	19.0	17.5	20.0	18.5	20.5	19.5	22.5	21.0
6	15.5	14.5	18.5	17.0	19.5	18.0	20.0	19.0	20.5	19.5	22.0	21.0
7	16.0	14.5	18.5	17.0	19.5	18.5	20.0	19.0	21.5	20.0	22.0	21.0
8	16.0	14.5	18.5	17.0	19.5	18.5	20.0	19.0	21.5	20.0	22.5	21.0
9	16.0	15.0	19.0	17.0	19.5	18.5	20.0	19.0	21.0	20.5	22.0	21.5
10	16.5	15.0	18.5	17.5	19.5	18.5	20.0	18.5	21.0	20.5	22.0	21.5
11	16.0	15.0	18.5	17.5	20.0	18.0	20.5	19.0	21.0	20.5	22.0	21.5
12	16.0	15.0	18.5	17.0	19.5	18.5	20.0	19.0	21.0	20.5	22.0	21.0
13	16.0	15.5	19.0	17.0	19.5	18.0	20.0	19.0	21.0	20.5	21.5	21.0
14	16.0	15.0	19.0	17.0	20.0	18.5	20.5	19.5	20.5	20.0	21.5	21.0
15	16.0	15.0	18.5	17.0	20.5	18.5	20.5	19.5	21.0	20.0	22.0	21.0
16	16.0	14.5	18.5	17.0	20.0	19.0	21.0	20.0	21.0	20.0	22.0	21.0
17	16.0	14.5	18.5	17.5	20.0	18.5	21.0	20.0	21.0	20.0	21.5	21.0
18	15.5	15.0	19.0	17.5	20.0	18.5	21.5	20.0	21.5	20.5	21.5	20.5
19	15.5	14.5	19.0	17.5	20.0	18.5	21.5	20.5	21.0	20.0	21.0	20.0
20	16.0	14.5	19.0	17.5	20.0	19.0	22.0	21.0	21.0	20.0	20.5	19.5
21	16.0	15.0	18.5	17.5	20.0	18.5	22.0	21.0	21.0	20.0	20.5	19.5
22	16.5	15.0	18.5	17.0	20.0	18.5	21.5	21.0	20.5	20.0	20.5	19.5
23	16.5	14.5	18.5	17.5	20.0	19.0	21.5	20.5	20.5	20.0	20.0	19.5
24	16.5	14.5	18.5	17.0	20.0	19.0	21.5	20.5	21.0	20.0	20.0	19.5
25	17.5	15.0	18.5	17.5	20.0	19.0	21.5	20.5	21.0	20.0	20.0	19.5
26	18.0	15.0	18.5	17.0	20.5	19.5	21.5	20.5	21.5	20.5	20.0	19.5
27	18.5	15.0	18.5	17.5	20.5	19.0	21.0	20.0	22.0	20.5	20.0	19.0
28	19.0	15.0	19.0	17.5	20.0	19.0	21.0	20.0	21.5	20.5	19.5	19.0
29	18.0	16.0	19.0	17.5	20.0	19.0	20.5	20.0	21.5	21.0	19.5	18.5
30	18.0	16.0	19.5	17.0	20.0	19.0	20.5	20.0	21.5	21.0	19.0	18.5
31	---	---	19.0	17.5	---	---	20.5	20.0	21.5	21.0	---	---
MONTH	19.0	14.0	19.5	16.0	20.5	17.5	22.0	18.5	22.0	19.0	22.5	18.5

11455820 CARQUINEZ STRAIT AT CARQUINEZ BRIDGE, NEAR CROCKETT, CA—Continued

TEMPERATURE, WATER, DEGREES CELSIUS, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
(LOWER PROBE)

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	---	---	17.0	15.5	12.0	11.5	10.5	10.0	11.0	10.5	12.0	11.0
2	---	---	16.5	15.5	12.0	11.5	10.5	9.5	11.0	10.5	12.0	11.5
3	---	---	16.0	15.0	12.0	12.0	10.5	9.0	11.0	10.5	12.0	11.0
4	---	---	15.5	15.0	12.0	12.0	10.5	8.5	11.0	10.5	12.0	11.0
5	---	---	15.5	14.5	12.0	12.0	10.5	8.5	11.0	10.5	12.0	11.0
6	---	---	15.0	14.5	12.0	12.0	10.5	8.5	11.0	10.5	12.0	11.0
7	18.5	18.5	15.0	14.5	12.0	12.0	10.0	8.5	11.0	10.5	12.0	11.5
8	18.5	18.0	15.0	14.5	12.0	12.0	10.0	8.5	11.0	10.5	12.5	12.0
9	18.5	18.0	15.0	14.5	12.0	12.0	10.5	8.5	11.0	10.5	13.0	12.0
10	18.5	18.0	15.0	14.5	12.0	11.5	10.5	8.5	11.5	10.5	13.0	12.5
11	18.5	18.0	15.0	14.5	12.0	11.5	10.5	9.0	11.5	10.5	14.0	12.5
12	18.5	18.0	15.0	14.5	11.5	11.5	10.5	9.0	11.5	10.5	14.0	13.0
13	18.5	17.5	15.0	14.0	11.5	11.5	10.5	9.0	11.5	10.5	14.5	13.0
14	18.5	17.5	15.0	14.5	11.5	11.5	10.5	9.5	11.5	11.0	15.0	13.0
15	18.5	17.5	14.5	14.0	11.5	11.0	11.0	10.0	11.5	11.0	15.5	13.0
16	18.0	17.5	14.5	14.0	11.5	11.0	11.0	10.0	11.5	11.0	15.5	13.5
17	18.0	17.0	14.5	14.0	11.5	11.0	11.0	10.0	11.5	11.5	16.0	14.0
18	18.0	17.0	---	---	11.5	11.0	11.0	10.0	12.0	11.5	16.5	14.0
19	18.0	17.5	14.0	14.0	11.5	11.0	11.0	10.0	12.0	11.5	16.5	14.5
20	18.0	17.5	14.5	14.0	11.0	10.5	11.0	10.0	12.0	11.0	16.5	15.0
21	18.0	17.5	14.0	13.5	11.0	11.0	11.0	10.0	12.0	11.0	16.5	15.0
22	18.0	17.5	14.0	13.0	11.5	10.5	11.0	10.0	12.0	11.0	---	---
23	18.0	17.5	13.5	12.5	11.5	10.5	11.0	10.0	11.5	11.0	---	---
24	18.5	17.5	13.0	12.5	11.5	10.5	11.0	10.0	12.0	11.5	16.0	15.0
25	18.5	17.5	13.0	12.5	11.5	10.5	11.0	10.0	12.0	12.0	16.0	15.0
26	18.5	17.5	12.5	12.0	11.0	10.0	11.0	10.0	12.0	11.5	15.5	14.5
27	18.5	17.5	12.5	12.0	11.0	10.0	11.0	10.0	12.0	11.5	15.5	14.0
28	18.5	17.5	12.0	12.0	10.5	10.0	11.0	10.5	12.0	11.5	15.5	13.5
29	---	---	12.0	12.0	10.5	9.5	11.0	10.5	12.0	11.0	15.0	13.5
30	18.0	16.5	12.0	11.5	10.5	9.5	11.0	10.5	---	---	15.5	13.5
31	17.0	16.0	---	---	10.5	10.0	11.0	10.5	---	---	15.5	14.0
MONTH	---	---	---	---	12.0	9.5	11.0	8.5	12.0	10.5	---	---
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	15.5	14.0	17.5	16.0	18.5	17.5	19.5	18.5	20.0	19.5	21.5	21.0
2	15.5	13.5	17.5	16.0	19.0	17.5	20.0	18.5	20.0	19.5	21.5	20.5
3	15.5	14.0	18.0	16.5	19.0	17.5	20.0	18.5	20.0	19.0	21.5	20.5
4	15.0	14.5	---	---	19.0	17.5	20.0	18.0	20.0	19.0	21.5	20.5
5	15.0	14.5	---	---	19.0	17.0	20.0	18.5	20.0	19.5	21.5	20.5
6	15.0	14.5	---	---	19.0	17.5	20.0	18.5	20.0	19.5	21.5	20.5
7	15.5	14.5	---	---	19.5	18.0	20.0	19.0	21.0	19.5	21.5	20.5
8	15.5	14.5	---	---	19.5	18.5	20.0	19.0	21.0	20.0	22.0	21.0
9	15.5	14.5	---	---	19.0	18.0	19.5	18.5	21.0	20.0	22.0	21.5
10	16.0	14.5	---	---	19.5	18.0	19.5	18.5	21.0	20.5	21.5	21.5
11	16.0	14.5	---	---	19.0	18.0	20.0	18.5	21.0	20.0	21.5	21.0
12	16.0	14.5	---	---	19.0	18.0	19.5	18.5	20.5	20.0	21.5	21.0
13	16.0	15.0	---	---	19.5	17.5	19.5	19.0	20.5	20.0	21.5	21.0
14	16.0	14.5	18.0	16.5	19.5	18.5	20.0	19.0	20.5	20.0	21.5	21.0
15	16.0	14.5	18.0	17.0	19.5	18.5	20.5	19.5	20.5	20.0	21.5	21.0
16	15.5	14.5	18.0	17.0	20.0	18.5	21.0	19.5	21.0	20.0	21.5	21.0
17	15.5	14.5	18.0	17.0	19.5	18.5	21.0	20.0	21.0	20.0	21.5	21.0
18	15.5	14.5	18.5	17.5	19.5	18.0	21.0	20.0	21.0	20.0	21.5	20.5
19	15.0	14.5	18.5	17.0	20.0	18.5	21.5	20.0	21.0	20.0	21.0	20.0
20	15.5	14.5	18.5	17.0	20.0	18.5	21.5	20.5	20.5	20.0	20.0	19.5
21	15.5	14.5	18.5	17.0	20.0	18.5	22.0	20.5	20.5	20.0	20.0	19.0
22	15.5	14.5	18.0	17.0	20.0	18.5	21.5	20.5	20.5	19.5	20.0	19.0
23	15.5	14.5	18.5	17.0	20.0	18.5	21.5	20.5	20.5	19.5	20.0	19.0
24	15.5	14.5	18.0	16.5	20.0	18.5	21.0	20.0	20.5	20.0	20.0	19.0
25	16.5	14.5	18.5	16.5	20.0	18.5	21.0	20.0	20.5	20.0	20.0	19.0
26	16.5	14.5	18.5	16.5	20.0	19.0	21.0	20.0	21.0	20.0	20.0	19.5
27	17.5	14.5	18.5	16.5	20.0	18.5	21.0	20.0	21.0	20.5	19.5	19.0
28	17.0	14.5	19.0	17.0	20.0	19.0	20.5	20.0	21.5	20.5	19.5	19.0
29	17.5	15.0	18.0	17.0	19.5	18.5	20.5	20.0	21.5	20.5	19.5	18.5
30	17.5	15.0	18.0	17.0	19.5	18.5	20.5	20.0	21.5	20.5	19.0	18.5
31	---	---	18.5	17.0	---	---	20.5	19.5	21.5	20.5	---	---
MONTH	17.5	13.5	---	---	20.0	17.0	22.0	18.0	21.5	19.0	22.0	18.5

11456000 NAPA RIVER NEAR ST. HELENA, CA

LOCATION.—Lat 38°29'52", long 122°25'37", in Carne Humana Grant, Napa County, Hydrologic Unit 18050002, on right bank, 0.2 mi upstream from highway bridge, 1.3 mi northeast of Zinfandel, and 2.5 mi east of St. Helena.

DRAINAGE AREA.—81.4 mi².

PERIOD OF RECORD.—October 1929 to September 1932, October 1939 to June 1995 (daily). July 1995 to May 2000 (stage only). June 2000 to current year. Monthly discharge only for some periods, published in WSP 1315-B.

WATER TEMPERATURE.—Water years 1958–79.

SEDIMENT DATA.—Water years 1961–62.

REVISED RECORDS.—WSP 1929: Drainage area. WDR CA-78-2: 1977(M).

GAGE.—Water-stage recorder. Datum of gage is 170.12 ft above NGVD of 1929. Prior to Nov. 22, 1958, at datum 3.00 ft higher. Nov. 22, 1958, to July 22, 1976, at datum 2.00 ft higher.

REMARKS.—Records good except for estimated daily discharges, which are fair. Some regulation by Kimball Creek Reservoir, capacity, 344 acre-ft, since 1939, and Bell Canyon Reservoir, capacity, 2,530 acre-ft, since 1959. Small diversions upstream from station for irrigation of about 1,500 acres.

EXTREMES FOR PERIOD OF RECORD.—Maximum discharge, 16,900 ft³/s, Feb. 17, 1986, gage height, 18.52 ft, from rating curve extended above 11,000 ft³/s, on basis of slope-area measurement of peak flow; no flow at times.

EXTREMES FOR CURRENT YEAR.—Peak discharges greater than base discharge of 4,200 ft³/s, or maximum:

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Dec. 29	1615	7,760	14.92	Feb. 25	1230	4,700	12.03
Feb. 17	2015	7,270	14.55				

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.43	0.33	17	1760	71	355	40	20	6.5	2.8	0.57	0.19
2	0.46	0.34	25	839	398	330	40	19	6.3	2.2	0.51	0.18
3	0.40	0.57	10	468	502	260	38	19	5.3	1.7	0.49	0.18
4	0.45	0.39	7.5	311	311	220	36	18	5.2	1.5	0.57	0.19
5	0.46	0.42	18	240	222	187	36	17	4.8	1.7	0.48	0.18
6	0.46	0.88	75	193	175	161	35	17	4.5	1.9	0.49	0.17
7	0.34	1.6	93	183	157	144	34	17	4.1	1.6	0.48	0.16
8	0.29	11	22	161	132	128	32	17	4.0	1.3	0.48	0.16
9	0.29	23	21	249	114	116	32	16	4.5	1.4	0.45	0.16
10	0.31	14	244	329	101	106	31	16	4.1	1.6	0.48	0.17
11	0.29	4.9	154	230	92	94	30	14	3.9	1.4	0.42	0.16
12	0.32	3.5	61	185	85	86	28	14	3.5	1.2	0.40	0.16
13	0.34	2.8	95	154	79	79	27	13	3.3	1.2	0.39	0.16
14	0.33	3.2	410	137	75	75	27	11	3.6	1.1	0.40	0.18
15	0.34	3.8	131	124	71	71	26	11	3.5	1.1	0.36	0.19
16	0.31	3.5	73	113	1870	68	26	11	3.0	1.1	0.34	0.18
17	0.29	3.2	53	103	3750	65	25	11	3.1	1.0	0.35	0.17
18	0.29	3.1	43	95	2580	62	25	11	3.2	0.91	0.32	0.18
19	0.34	3.4	49	89	854	58	28	12	3.2	0.88	0.30	0.18
20	0.34	3.3	153	82	517	55	40	12	2.8	e0.85	0.29	0.19
21	0.32	3.2	291	75	365	52	30	11	2.9	e0.81	0.31	0.17
22	0.33	3.0	132	68	312	51	29	11	2.6	0.78	0.31	0.17
23	0.31	2.8	135	65	260	49	28	11	2.5	0.77	0.31	0.16
24	0.29	2.6	1270	68	238	46	26	10	2.7	0.75	0.29	0.16
25	0.29	2.6	404	62	1870	69	25	9.5	2.7	0.73	0.28	0.16
26	0.31	2.6	206	58	1100	63	23	9.0	2.3	0.71	0.28	0.15
27	0.32	2.6	136	97	715	57	22	8.5	2.2	0.72	0.28	0.15
28	0.32	2.6	105	115	474	52	22	7.9	2.3	0.67	0.27	0.15
29	0.33	2.7	3420	88	355	48	21	7.7	2.5	0.65	0.26	0.16
30	0.30	6.2	1170	80	---	45	20	7.4	2.6	0.64	0.26	0.16
31	0.33	---	462	73	---	42	---	7.0	---	0.59	0.23	---
TOTAL	10.53	118.13	9485.5	6894	17845	3294	882	396.0	107.7	36.26	11.65	5.08
MEAN	0.34	3.94	306	222	615	106	29.4	12.8	3.59	1.17	0.38	0.17
MAX	0.46	23	3420	1760	3750	355	40	20	6.5	2.8	0.57	0.19
MIN	0.29	0.33	7.5	58	71	42	20	7.0	2.2	0.59	0.23	0.15
AC-FT	21	234	18810	13670	35400	6530	1750	785	214	72	23	10

e Estimated.

NAPA RIVER BASIN

11456000 NAPA RIVER NEAR ST. HELENA, CA—Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1930 - 2004, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	4.88	33.4	185	299	293	194	86.3	23.4	7.38	2.48	1.24	0.96
MAX	179	415	1088	1338	1798	1144	584	126	27.3	7.66	4.43	6.44
(WY)	1963	1974	1956	1970	1986	1983	1982	2003	1967	1941	1941	1982
MIN	0.00	0.10	0.24	2.17	4.34	4.16	1.81	0.89	0.08	0.00	0.00	0.00
(WY)	1978	1932	1940	1991	1977	1998	1977	1977	1977	1977	1977	1977

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1930 - 2004	
ANNUAL TOTAL	36355.39		39085.85			
ANNUAL MEAN	99.6		107		91.6	
HIGHEST ANNUAL MEAN					270	
LOWEST ANNUAL MEAN					1.90	
HIGHEST DAILY MEAN	3420	Dec 29	3750	Feb 17	13700	Feb 17 1986
LOWEST DAILY MEAN	0.21	Sep 29	0.15	Sep 26	0.00	Sep 23 1947
ANNUAL SEVEN-DAY MINIMUM	0.29	Sep 24	0.16	Sep 23	0.00	Sep 23 1947
MAXIMUM PEAK FLOW			7760		16900	
MAXIMUM PEAK STAGE			14.92		18.52	
ANNUAL RUNOFF (AC-FT)	72110		77530		66340	
10 PERCENT EXCEEDS	270		224		179	
50 PERCENT EXCEEDS	24		7.6		7.0	
90 PERCENT EXCEEDS	0.37		0.28		0.40	

11458000 NAPA RIVER NEAR NAPA, CA

LOCATION.—Lat 38°22'06", long 122°18'08", in Yajome Grant, [Napa County](#), Hydrologic Unit 18050002, on left bank, downstream side of Oak Knoll Avenue Bridge, 0.4 mi downstream from Dry Creek, 5 mi north of Napa, and 12.8 mi downstream from Conn Dam.

DRAINAGE AREA.—218 mi².

PERIOD OF RECORD.—October 1929 to September 1932, October 1959 to current year. Monthly discharge only for some periods, published in WSP 1315-B.

CHEMICAL DATA: Water years 1973–93.

BIOLOGICAL DATA: Water years 1978–81.

SPECIFIC CONDUCTANCE: Water years 1978–93.

WATER TEMPERATURE: Water years 1977–93.

SEDIMENT DATA: Water years 1971, 1977–93.

REVISED RECORDS.—WSP 1315-B: 1930(M). WDR CA-87-2: 1963(M), 1965(M), 1967(M), 1982–85. WRD CA-01-2, 2000(M).

GAGE.—Water-stage recorder. Datum of gage is 24.74 ft above NGVD of 1929.

REMARKS.—Records good. Flow regulated by Lake Hennessey beginning in December 1945, 12.8 mi upstream, capacity, 31,000 acre-ft; Rector Reservoir beginning in 1948, 12.4 mi upstream, capacity, 4,400 acre-ft; Bell Canyon Reservoir beginning in 1959, 19.6 mi upstream, capacity, 2,530 acre-ft. Diversions for irrigation upstream from station of about 10,000 acres.

EXTREMES FOR PERIOD OF RECORD.—Maximum discharge, 37,100 ft³/s, Feb. 18, 1986, gage height, 30.20 ft, from floodmarks, maximum gage height, 30.50 ft, Mar. 9, 1995; no flow at times.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.00	0.00	7.2	4190	129	821	84	37	16	4.7	0.84	0.05
2	0.00	0.00	32	2060	516	785	72	36	14	4.7	1.0	0.05
3	0.00	0.00	18	1030	839	643	70	35	13	4.4	1.1	0.05
4	0.00	0.00	11	674	576	556	67	33	12	4.0	0.85	0.05
5	0.00	0.00	10	519	424	487	66	31	12	4.0	0.61	0.05
6	0.00	0.00	22	426	352	431	63	31	12	4.0	0.41	0.05
7	0.00	0.00	213	390	322	391	58	31	11	3.8	0.26	0.04
8	0.00	0.00	54	356	286	353	56	31	11	3.6	0.17	0.04
9	0.00	7.1	21	359	252	330	55	31	11	3.3	0.14	0.04
10	0.00	26	384	559	211	301	54	31	12	3.0	0.15	0.04
11	0.00	10	294	416	197	272	53	29	12	2.9	0.13	0.04
12	0.00	5.8	153	355	177	245	52	27	11	2.6	0.11	0.04
13	0.00	4.1	151	318	161	219	51	26	11	2.5	0.11	0.04
14	0.00	3.4	541	291	155	197	49	25	10	2.3	0.12	0.04
15	0.00	3.4	319	267	144	181	48	29	9.5	2.1	0.16	0.04
16	0.00	3.4	177	243	2210	165	46	23	8.3	1.9	0.14	0.03
17	0.00	3.4	120	217	6340	153	44	22	6.9	1.9	0.14	0.03
18	0.00	3.4	83	195	8200	144	44	22	6.2	1.8	0.12	0.03
19	0.00	3.4	70	179	2640	133	45	21	6.1	1.4	0.09	0.03
20	0.00	3.4	157	166	1470	122	56	20	6.1	1.2	0.09	0.03
21	0.00	3.4	469	149	1020	114	51	18	7.1	1.1	0.09	0.03
22	0.00	3.4	269	134	844	109	47	18	6.8	1.1	0.09	0.03
23	0.00	3.4	228	126	703	101	46	18	6.5	1.1	0.08	0.03
24	0.00	3.4	2080	127	610	94	45	18	6.4	1.1	0.08	0.03
25	0.00	3.3	932	121	4480	110	45	18	5.9	1.1	0.08	0.02
26	0.00	3.0	439	110	3240	138	43	17	5.1	1.1	0.07	0.02
27	0.00	2.9	307	131	1950	101	41	17	4.1	0.99	0.07	0.02
28	0.00	2.9	247	192	1250	99	39	17	5.0	0.78	0.06	0.01
29	0.00	2.9	5210	151	940	94	39	17	4.7	0.72	0.06	0.01
30	0.00	3.3	3850	135	---	92	38	16	4.7	0.75	0.06	0.02
31	0.00	---	1010	132	---	89	---	16	---	0.73	0.05	---
TOTAL	0.00	108.70	17878.2	14718	40638	8070	1567	761	267.4	70.67	7.53	1.03
MEAN	0.00	3.62	577	475	1401	260	52.2	24.5	8.91	2.28	0.24	0.03
MAX	0.00	26	5210	4190	8200	821	84	37	16	4.7	1.1	0.05
MIN	0.00	0.00	7.2	110	129	89	38	16	4.1	0.72	0.05	0.01
AC-FT	0.00	216	35460	29190	80610	16010	3110	1510	530	140	15	2.0

NAPA RIVER BASIN

11458000 NAPA RIVER NEAR NAPA, CA—Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1960 - 2004, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	10.8	73.1	313	697	729	471	178	54.3	17.3	5.45	2.52	2.04
MAX	338	616	1613	3083	4089	2598	1341	279	100	23.9	9.43	10.7
(WY)	1963	1974	2003	1995	1986	1983	1982	2003	1998	1998	1983	1982
MIN	0.00	1.10	0.73	2.17	0.42	2.60	0.20	0.00	0.00	0.00	0.00	0.00
(WY)	1961	1991	1977	1991	1977	1977	1977	1977	1977	1961	1960	1960

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1960 - 2004	
ANNUAL TOTAL	71876.75		84087.53			
ANNUAL MEAN	197		230		210	
HIGHEST ANNUAL MEAN					585	
LOWEST ANNUAL MEAN					0.72	
HIGHEST DAILY MEAN	5210	Dec 29	8200	Feb 18	26200	Feb 17 1986
LOWEST DAILY MEAN	0.00	Sep 14	0.00	Oct 1	0.00	Jul 14 1960
ANNUAL SEVEN-DAY MINIMUM	0.00	Sep 14	0.00	Oct 1	0.00	Jul 14 1960
MAXIMUM PEAK FLOW			12200	Feb 18	37100	Feb 18 1986
MAXIMUM PEAK STAGE			23.32	Feb 18	30.50	Mar 9 1995
ANNUAL RUNOFF (AC-FT)	142600		166800		152500	
10 PERCENT EXCEEDS	515		433		437	
50 PERCENT EXCEEDS	46		14		14	
90 PERCENT EXCEEDS	0.00		0.00		0.30	

11458370 NAPA RIVER AT MARE ISLAND CAUSEWAY, NEAR VALLEJO, CA

LOCATION.—Lat 38°06'40", long 122°16'25", in T.3 N., R.4 W., Solano County, Hydrologic Unit 18050002, at east side of Napa River main channel, and underneath Mare Island Causeway Bridge.

PERIOD OF DAILY RECORD.—October 1998 to current year.

SPECIFIC CONDUCTANCE: October 1998 to current year.

WATER TEMPERATURE: October 1998 to current year.

INSTRUMENTATION.—Water-quality monitor since October 1998.

REMARKS.—Interruptions in record were due to malfunction of sensing and (or) recording instruments. Upper probes are set about 5 ft below water surface at Mean Lower Low Water (MLLW). Lower probes are set about 27 ft below water surface at MLLW. MLLW is about 30 ft. Daily maximums and minimums sometimes differ from tidal-cycle (24.8 hours) maximums and minimums. Sediment data available in the files of the U.S. Geological Survey. The upper conductivity record is rated excellent except for Oct. 1, 2, Apr. 27 to May 17, and July 30 to Aug. 12, which is rated good. The lower conductivity record is rated excellent except for Dec. 6 to Apr. 30, which is rated fair; and May 1 to Sept. 30 which is rated good. The upper temperature record is rated excellent. The lower temperature record is rated excellent except for Feb. 14 to Apr. 5, which is rated good.

EXTREMES FOR PERIOD OF RECORD.—

SPECIFIC CONDUCTANCE: (Upper probe) Maximum recorded, 39,000 microsiemens, Jan. 8, 2001; minimum recorded, 72 microsiemens, Mar. 4, 5, 1999.

(Lower probe) Maximum recorded, 44,600 microsiemens, Jan. 11, 1999; minimum recorded, 81 microsiemens, Mar. 4, 1999.

WATER TEMPERATURE: (Upper probe) Maximum recorded, 23.5°C, June 27, Aug. 25, 2003, Sept. 8, 2004; minimum recorded, 6.5°C, Jan. 11, 1999.

(Lower probe) Maximum recorded, 23.5°C, Sept. 9, 2004; minimum recorded, 6.5°C, Dec. 24, 1998.

EXTREMES FOR CURRENT YEAR.—

SPECIFIC CONDUCTANCE: (Upper probe) Maximum recorded, 38,500 microsiemens, Oct. 29; minimum recorded, 147 microsiemens, Mar. 7.

(Lower probe) Maximum recorded, 39,000 microsiemens, Oct. 28; minimum recorded, 178 microsiemens, Mar. 7.

WATER TEMPERATURE: (Upper probe) Maximum recorded, 23.5°C, Sept. 8; minimum recorded, 8.5°C, Jan. 5–10.

(Lower probe) Maximum recorded, 23.5°C, Sept. 9; minimum recorded, 8.5°C, Jan. 5–10.

SPECIFIC CONDUCTANCE, WATER, UNFILTERED, MICROSIEMENS PER CENTIMETER AT 25 DEGREES CELSIUS

WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

(UPPER PROBE)

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	35000	30000	34300	28500	33200	28600	22600	6420	29400	16300	7140	1830
2	35400	29900	34200	28800	32800	28700	22200	4810	31500	16100	8820	1530
3	35000	29900	32700	30000	32900	28600	21800	5430	27900	14900	11600	972
4	35500	29400	31900	29100	33000	28900	21300	4990	27000	13800	9740	369
5	34300	29300	32200	29600	33700	28400	22100	4990	25200	12900	4710	193
6	33700	29500	31800	29000	34800	28500	25800	5240	23600	11900	3920	170
7	33400	30100	32900	29100	35600	28600	26200	6330	20800	11400	2870	147
8	33300	30800	34700	29000	34700	27400	24900	6760	19500	9850	3580	164
9	32800	30800	35100	30600	35300	26100	25000	6670	17800	10300	6760	680
10	32000	30100	34900	28900	33500	25800	21500	6910	16400	10700	10000	1480
11	32400	29200	34900	27900	32300	24700	19800	6510	20200	11300	12200	2440
12	32400	29400	35200	27500	32600	22600	15600	7060	23800	11800	16300	3230
13	34000	28600	36800	28000	30200	21500	15800	7330	26400	12900	19100	4050
14	35100	29100	---	---	27400	20800	20600	7770	28600	13600	20300	4740
15	36000	29500	---	---	24500	18900	24700	8550	28600	14100	21600	5290
16	35400	30200	---	---	25100	17700	27000	10600	30200	13900	23400	6170
17	35400	28800	---	---	29400	19000	28300	12100	28300	5790	22900	7160
18	---	---	---	---	31000	21600	26800	12200	22400	2270	22000	7970
19	---	---	32600	27700	28600	22000	25500	12000	16800	3350	20400	8330
20	34000	29100	32500	29000	30000	20700	24200	11900	17900	4420	17600	8490
21	34000	29400	33000	29600	30300	19800	24700	11800	16800	4030	18300	8680
22	34200	30700	32800	28200	31000	18600	24400	11600	12700	2810	16200	9090
23	33900	31200	34600	28000	31900	18400	24300	11500	4410	1210	18600	9260
24	33300	30700	36500	27500	32700	19300	24400	12400	5160	519	16600	8490
25	34600	30100	36900	28700	29000	17200	19500	12500	7660	1120	18800	8640
26	36200	29900	36800	29100	26500	16600	18500	12600	3250	1360	17500	8940
27	37000	30100	35400	27300	21900	13000	22400	13000	1810	705	16000	9480
28	37700	30400	35700	26300	19400	11400	22000	13100	2060	733	18900	9750
29	38500	30800	35800	27300	22200	10900	24300	13700	3270	1400	24500	10500
30	---	---	34400	27900	20100	6030	27600	14200	---	---	27500	11900
31	35700	30500	---	---	24900	5870	25600	14500	---	---	24400	14200
MONTH	---	---	---	---	35600	5870	28300	4810	31500	519	27500	147

11458370 NAPA RIVER AT MARE ISLAND CAUSEWAY, NEAR VALLEJO, CA—Continued

SPECIFIC CONDUCTANCE, WATER, UNFILTERED, MICROSIEMENS PER CENTIMETER AT 25 DEGREES CELSIUS
 WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
 (UPPER PROBE)

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	23800	15500	26800	20000	29700	21900	34100	25100	33400	24100	---	---
2	26200	16600	26900	20600	30200	21800	35500	24800	31100	23900	---	---
3	25300	16700	28100	21100	31900	22700	34300	24500	30100	23300	31800	28700
4	23100	17200	28800	21500	33100	22900	33100	24800	29100	23700	35000	28200
5	23400	17700	30200	22000	34400	23300	32800	24500	28000	24400	37300	28000
6	23000	16600	30700	21700	34800	24100	31700	24500	30200	25000	37100	28300
7	22600	15100	30500	20300	34900	25200	30900	25200	32300	25600	36900	28800
8	24000	13700	30600	19400	33600	25100	30000	24900	33200	26300	36000	28700
9	25400	12400	30100	18300	31300	24800	29000	25100	31600	26500	35000	28800
10	27400	11300	27600	18500	29600	24900	32400	25500	32000	25900	34200	29300
11	27300	10400	26800	17000	31000	26100	32600	25400	33400	24900	33800	28800
12	23800	9720	25300	17600	30900	26200	32800	24800	33300	25500	33900	29200
13	19800	9800	26900	18900	31300	26300	31700	24800	32300	26600	33900	29700
14	---	---	26000	20500	33600	26600	32600	24200	32300	26900	32800	28500
15	18300	11000	26100	20900	33800	26300	31900	23400	31900	24900	32400	28500
16	18600	11800	27000	21100	35400	26800	32000	23400	32100	24700	32000	29100
17	18000	12600	27400	21000	35400	27000	32600	23600	31300	24800	32900	29900
18	17800	11300	27100	19500	35400	27500	32600	23600	30700	25400	33500	30500
19	---	---	28600	17900	34800	26800	32500	23300	29900	26900	33300	30200
20	21300	10800	28400	18200	34400	26200	32000	23200	30600	27600	33400	28500
21	18900	10300	28100	18300	33800	25100	30100	23800	32000	28400	35300	25800
22	17800	8660	28600	18000	32800	24300	29500	25100	32700	28800	36900	25500
23	23000	10200	29200	17200	32800	24800	29200	25200	33500	29100	35000	26600
24	23200	11600	31200	17100	29600	24700	31600	26300	36200	27500	34500	27000
25	23700	12500	27000	18100	30500	24900	31400	26500	35200	27100	34100	28200
26	23500	13800	---	---	31100	26200	33300	27100	35700	26600	32700	28100
27	26300	14900	26000	18200	32000	27000	34700	27100	34400	25100	---	---
28	27900	16200	26100	19700	33200	27400	34700	27800	34200	25900	32700	29400
29	27600	18000	27200	20400	34400	27700	34700	27200	33800	27900	32100	29600
30	27200	19300	28400	21100	34400	26300	34600	26300	34000	28700	32800	29900
31	---	---	28400	21400	---	---	33100	24500	32900	28000	---	---
MONTH	---	---	---	---	35400	21800	35500	23200	36200	23300	---	---

11458370 NAPA RIVER AT MARE ISLAND CAUSEWAY, NEAR VALLEJO, CA—Continued

SPECIFIC CONDUCTANCE, WATER, UNFILTERED, MICROSIEMENS PER CENTIMETER AT 25 DEGREES CELSIUS
 WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
 (LOWER PROBE)

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	36600	30100	36500	29900	33500	29000	30400	7830	31500	16900	17500	2010
2	37500	30200	34600	29900	34600	28800	26400	6280	33400	16500	17800	2330
3	36700	30200	32900	30400	33400	28800	27900	5770	29300	15500	16400	1850
4	36100	30000	32300	29800	33800	29000	27800	5770	28600	14100	16400	713
5	34900	29800	32900	30200	35700	28900	28200	6040	27500	13200	12100	261
6	34200	30000	32700	29900	36200	29000	28500	6120	27000	12500	8570	187
7	33600	30500	34700	29800	35800	28800	28000	6710	23100	12000	7290	178
8	33600	30700	36000	29800	35400	28200	28400	7090	22300	10600	7190	190
9	33000	30900	36600	30700	36500	26700	28500	7240	21100	10700	10900	1090
10	32600	30500	36700	29900	35700	26300	26000	7160	18900	11200	13800	1640
11	33700	30000	36500	29100	34200	25700	26600	7100	22500	11400	17700	2630
12	33300	30100	37200	28900	34200	23400	24400	7090	26100	12200	23200	3580
13	35700	29500	37300	29100	33500	23000	21200	7390	29200	13700	25600	4730
14	37100	30100	---	---	28300	22100	24000	9560	30800	14500	25600	5160
15	37000	30600	---	---	24600	20600	28900	12000	29800	14300	26900	6060
16	36900	31000	---	---	28500	21400	31200	12400	31500	14300	27500	6650
17	---	---	---	---	31500	21500	30700	12500	29600	10100	27500	7440
18	---	---	---	---	32000	21600	28900	12700	24600	3690	25500	8160
19	---	---	33500	28700	31900	22000	28300	12300	19500	4290	21900	8470
20	34900	30700	34000	29100	32100	21200	28700	12300	21100	4870	19900	8590
21	34100	29900	33400	29500	32600	20400	27900	12300	18500	4680	20200	8780
22	34100	30900	33400	28600	32800	19400	27100	12000	15600	3000	19000	9260
23	33900	31200	35100	28200	33800	18800	27000	11800	9360	1300	19200	9400
24	33700	31000	37000	27800	34300	19700	26500	12500	8070	928	20300	9480
25	35600	30600	37600	28900	31800	17800	22000	12600	10800	1470	23800	9630
26	36300	30400	37400	29400	28300	16800	20600	12800	4020	1600	22300	9600
27	37500	30300	37200	27800	27900	13500	23800	13000	2030	1420	24900	9590
28	39000	30500	38500	27100	25400	12500	25200	13900	3240	1160	29700	13700
29	38200	31000	36300	28000	25000	11600	30400	16000	11900	1530	34500	17500
30	---	---	34900	28700	24100	9890	33200	16300	---	---	30600	18200
31	37900	30900	---	---	28300	9790	30000	17100	---	---	26900	17700
MONTH	---	---	---	---	36500	9790	33200	5770	33400	928	34500	178
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	27200	16400	28000	20800	32700	21900	35800	26500	35200	25600	---	---
2	29400	17100	27600	20600	33100	22200	36800	26000	34700	25600	---	---
3	27500	17000	28700	20900	34000	22900	37000	25900	33200	24600	33800	29300
4	24500	17400	29100	21400	34300	23100	36500	26000	31200	25100	36000	28900
5	24400	17800	30100	21600	35300	23500	36100	25700	30000	25700	38300	29300
6	23900	17000	30500	21400	35100	24700	34500	25800	32000	26500	38200	29900
7	25000	15400	31800	20200	35200	25500	32700	26600	35000	27200	37800	30100
8	27000	14600	32900	19500	33700	26300	31700	26700	36100	27400	37300	30100
9	28000	13600	32000	19100	31600	25800	32500	27300	34500	28000	35700	29700
10	29600	13400	29200	19200	30700	26100	35400	27700	34900	28000	35600	30000
11	30200	13200	27100	18900	32700	25800	36400	27600	35600	26300	35100	29400
12	29700	13900	27500	19200	32600	26300	34900	27200	33900	27100	34800	29600
13	24400	11900	28000	19200	32700	26400	35000	26700	34400	27400	34500	30100
14	---	---	28500	20000	35000	26600	35500	25800	34400	27200	33100	28900
15	21800	11600	28000	20400	36200	26800	35400	25200	33400	25700	33000	29200
16	21300	12400	29200	20900	36100	27000	35400	25000	33400	25300	32500	30000
17	20500	13000	29400	21200	35700	27200	35300	25400	32800	25500	33400	30600
18	19900	11600	29700	20400	35700	27800	35300	25200	31900	26000	34100	30900
19	---	---	31100	19300	36000	27100	35200	25100	30200	26800	34400	30700
20	23100	11300	31900	19400	35800	26900	33800	24900	31700	27600	34900	30000
21	21400	11000	31400	19700	35500	25600	33100	25100	33300	28200	36000	29500
22	20900	10000	32200	19500	35300	25800	30900	25500	33600	28700	37400	27500
23	29200	11900	31200	19000	34900	26400	31000	26200	34900	29200	36900	27800
24	30100	13000	33500	20000	31000	26100	33300	26600	36700	28800	35800	28000
25	30100	15200	31300	20200	32300	26400	33600	27400	36600	28000	34700	29100
26	32400	16500	---	---	33200	26700	34300	27700	36500	27200	34400	29300
27	33400	19400	28800	20800	33700	27200	35300	27700	37000	25900	---	---
28	30400	20200	28800	20800	33700	27400	35500	28100	36100	26600	33800	30500
29	29400	21100	30100	21000	34900	27900	35700	27600	36100	28000	33500	30900
30	28800	20000	30600	21100	35600	27900	35500	26800	34900	29000	34400	31200
31	---	---	30900	21600	---	---	35400	26400	33800	28600	---	---
MONTH	---	---	---	---	36200	21900	37000	24900	37000	24600	---	---

11458370 NAPA RIVER AT MARE ISLAND CAUSEWAY, NEAR VALLEJO, CA—Continued

TEMPERATURE, WATER, DEGREES CELSIUS, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

(UPPER PROBE)

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	19.5	19.0	16.5	15.5	11.5	11.0	10.0	9.5	11.0	10.5	12.5	11.5
2	19.0	18.5	16.0	15.0	12.0	11.0	10.0	9.5	11.0	10.5	13.0	11.0
3	19.0	18.0	16.0	14.5	12.0	11.5	9.5	9.0	11.0	10.5	12.5	11.5
4	19.0	18.0	16.0	14.5	12.0	11.5	9.5	9.0	12.0	10.5	13.5	11.5
5	19.0	18.0	15.5	14.0	12.0	11.5	9.5	8.5	11.5	10.5	13.5	11.5
6	19.5	18.5	15.5	14.0	12.5	12.0	9.5	8.5	11.5	10.5	14.0	11.5
7	19.5	18.5	15.0	14.0	12.5	12.0	9.5	8.5	11.5	10.5	14.5	11.5
8	19.5	18.5	15.0	14.5	12.5	12.0	9.5	8.5	11.5	10.5	15.5	12.0
9	19.0	18.5	15.5	14.5	12.0	11.5	9.5	8.5	11.5	10.5	16.0	12.0
10	19.0	18.0	15.0	14.5	12.0	11.5	10.0	8.5	11.5	10.5	16.0	12.5
11	18.5	18.0	15.0	14.5	12.0	11.0	10.5	9.0	11.0	10.5	16.0	13.0
12	19.0	18.0	15.0	14.5	11.5	11.0	10.0	9.0	11.5	10.5	16.5	13.0
13	19.0	18.0	15.0	14.5	11.5	11.0	10.0	9.0	11.0	10.5	16.5	13.5
14	19.0	18.0	---	---	11.5	11.0	10.0	9.5	11.5	10.5	17.0	14.0
15	18.5	18.0	---	---	11.5	10.5	10.0	9.5	11.5	11.0	18.0	14.5
16	18.5	18.0	---	---	11.0	10.5	10.5	10.0	12.0	11.0	18.5	14.5
17	---	---	---	---	11.0	10.5	10.5	10.0	12.5	11.0	19.0	14.5
18	---	---	---	---	11.0	10.5	10.5	10.0	13.0	11.5	19.0	15.0
19	---	---	14.5	14.0	11.0	10.5	11.0	10.0	12.5	11.5	19.0	15.5
20	19.5	18.0	14.5	14.0	11.0	10.5	11.0	10.0	12.5	11.5	18.5	16.0
21	19.5	18.0	14.0	13.5	11.0	10.5	11.0	10.0	12.0	11.5	18.0	16.0
22	19.5	18.0	14.0	12.5	11.0	10.5	11.0	10.0	12.0	11.0	17.5	16.0
23	19.5	18.0	13.5	12.0	11.0	10.5	10.5	10.0	12.5	11.0	17.5	16.0
24	19.5	18.0	13.0	11.5	11.0	11.0	10.5	10.0	12.5	11.5	17.0	16.0
25	19.5	18.0	12.5	11.0	11.0	10.5	10.5	10.0	12.5	12.0	16.5	15.5
26	19.5	18.0	12.5	11.0	10.5	9.5	10.5	10.0	12.5	11.5	16.0	15.0
27	19.5	18.0	12.5	10.5	10.5	9.5	10.5	10.0	12.5	11.5	16.5	14.5
28	19.5	18.0	12.0	10.5	10.0	9.0	10.5	10.0	12.5	11.5	16.5	15.5
29	19.0	17.5	12.0	10.5	10.0	9.0	10.5	10.5	12.5	11.5	17.5	15.0
30	---	---	11.5	11.0	10.0	9.0	11.0	10.5	---	---	16.5	15.5
31	17.0	15.5	---	---	10.0	9.0	11.0	10.5	---	---	17.0	15.0
MONTH	---	---	---	---	12.5	9.0	11.0	8.5	13.0	10.5	19.0	11.0
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	16.5	15.0	20.0	17.0	20.5	18.5	20.0	19.0	20.5	19.5	---	---
2	16.0	14.5	21.0	17.5	20.5	18.5	20.0	18.5	20.0	19.0	---	---
3	17.0	15.0	21.0	18.0	20.5	18.5	20.5	19.0	20.5	19.0	22.0	21.0
4	16.0	15.0	20.5	18.0	20.0	18.5	20.0	19.0	20.5	19.0	22.0	21.0
5	16.0	15.0	19.5	18.0	20.0	18.0	20.5	19.5	20.5	19.5	22.5	21.0
6	16.0	14.5	19.0	17.5	20.0	18.5	20.0	19.5	21.0	19.5	23.0	21.0
7	16.5	15.0	19.0	17.5	19.5	18.5	20.0	19.5	22.0	20.0	23.0	21.5
8	16.0	15.0	19.0	18.0	19.5	18.5	20.0	19.0	22.0	20.0	23.5	21.5
9	16.5	15.0	19.0	18.0	19.5	18.5	20.0	19.0	22.0	20.5	23.0	21.5
10	17.0	15.5	18.5	17.5	19.5	18.5	20.5	19.0	22.0	20.5	22.5	21.5
11	17.0	15.5	18.5	17.5	20.0	19.0	21.0	19.0	22.5	20.5	23.0	21.5
12	17.0	15.5	19.0	17.5	20.5	19.0	20.5	19.5	21.5	20.5	22.0	21.5
13	16.5	15.5	19.5	17.5	20.5	19.0	20.5	19.5	21.5	20.5	22.0	20.5
14	---	---	20.0	18.0	20.5	19.0	21.0	19.5	21.0	20.0	22.5	21.0
15	16.5	15.0	19.5	18.0	22.0	19.0	21.5	19.5	21.0	20.0	22.5	21.0
16	16.5	15.0	19.5	18.0	21.0	19.5	21.5	20.0	21.5	20.0	22.5	21.5
17	16.5	15.0	19.0	18.0	20.5	19.5	21.5	20.0	22.0	20.5	22.0	21.5
18	16.0	15.0	19.5	17.5	20.0	19.5	22.0	20.5	22.0	20.5	21.5	20.0
19	---	---	19.0	18.0	20.0	19.0	22.0	20.5	21.0	20.5	20.5	19.0
20	16.0	15.0	19.0	18.0	20.0	19.0	22.0	21.0	21.0	20.0	20.5	19.0
21	16.0	15.0	18.5	18.0	20.0	19.0	22.5	21.0	21.0	20.5	20.5	19.0
22	16.5	15.0	18.5	17.5	20.0	19.0	22.0	21.0	20.5	20.0	20.5	19.0
23	---	---	18.5	17.0	20.0	19.0	21.5	21.0	21.0	20.0	21.0	19.5
24	18.5	15.5	18.5	17.5	20.5	19.0	22.0	20.5	21.5	20.0	21.5	20.0
25	19.0	15.5	18.5	17.5	20.5	19.0	22.0	20.5	21.5	20.0	21.0	19.5
26	19.5	16.0	---	---	21.0	19.5	22.0	20.5	22.0	20.5	21.0	19.5
27	21.0	16.5	19.0	18.0	21.0	19.5	21.5	20.5	22.5	20.5	---	---
28	20.5	17.0	19.0	18.0	20.5	19.5	21.0	20.0	23.0	21.0	20.0	19.0
29	20.0	17.0	19.5	18.0	20.0	19.5	21.0	20.0	23.0	21.0	19.5	19.0
30	19.5	17.0	20.5	18.0	20.0	19.5	20.5	19.5	22.5	21.0	19.5	18.5
31	---	---	21.5	18.5	---	---	20.5	19.5	22.0	21.0	---	---
MONTH	---	---	---	---	22.0	18.0	22.5	18.5	23.0	19.0	---	---

11458370 NAPA RIVER AT MARE ISLAND CAUSEWAY, NEAR VALLEJO, CA—Continued

TEMPERATURE, WATER, DEGREES CELSIUS, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

(LOWER PROBE)

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	19.5	18.5	16.5	15.5	12.0	11.0	10.5	9.5	11.0	10.5	12.5	11.5
2	19.0	18.5	16.5	15.0	12.0	11.0	10.5	9.5	11.0	10.5	13.0	11.5
3	19.0	18.0	16.0	14.5	12.0	11.5	10.5	9.0	11.0	10.5	12.5	11.5
4	19.0	18.0	15.5	14.5	12.0	11.5	10.5	9.0	12.0	10.5	13.0	11.5
5	19.0	18.0	15.5	14.5	12.0	11.5	10.5	8.5	12.0	11.0	13.5	11.5
6	19.0	18.5	15.5	14.0	12.5	12.0	10.5	8.5	12.0	11.0	14.0	11.5
7	19.0	18.5	15.0	14.0	12.5	12.0	10.0	8.5	11.5	10.5	14.5	11.5
8	19.5	18.5	15.0	14.5	12.5	12.0	10.0	8.5	11.5	10.5	15.0	12.0
9	19.0	18.5	15.0	14.5	12.0	11.5	10.0	8.5	11.5	10.5	15.5	12.0
10	18.5	18.0	15.0	14.5	12.0	11.5	10.0	8.5	11.5	10.5	16.0	12.5
11	18.5	17.5	15.0	14.5	12.0	11.0	10.5	9.0	11.0	10.5	15.5	13.0
12	19.0	18.0	15.0	14.5	11.5	11.0	10.0	9.0	11.0	10.5	15.5	13.0
13	19.0	18.0	15.0	14.5	11.5	11.0	10.0	9.5	11.5	11.0	16.0	13.0
14	19.0	18.0	---	---	11.5	11.0	10.5	9.5	11.5	11.0	16.5	13.5
15	18.5	18.0	---	---	11.5	10.5	10.5	9.5	12.0	11.0	17.5	13.5
16	18.5	17.5	---	---	11.5	10.0	10.5	10.0	12.0	11.0	18.0	13.5
17	18.5	17.5	---	---	11.5	10.5	11.0	10.0	12.5	11.5	19.0	14.0
18	---	---	---	---	11.5	10.5	10.5	10.0	13.0	11.5	19.0	14.5
19	---	---	14.5	14.0	11.0	10.5	11.0	10.0	12.5	11.5	18.5	15.0
20	18.5	17.5	14.5	14.0	11.0	10.5	11.0	10.0	12.5	11.5	18.5	15.5
21	19.5	18.0	14.0	13.5	11.0	10.5	11.0	10.0	12.0	11.5	18.0	15.5
22	19.5	18.0	14.0	12.5	11.0	10.5	11.0	10.0	12.0	11.0	17.5	16.0
23	19.0	18.0	13.5	12.0	11.0	10.5	11.0	10.0	12.0	11.0	17.0	16.0
24	19.0	18.0	13.0	11.5	11.5	10.5	11.0	10.0	12.5	11.5	16.5	15.5
25	19.5	17.5	12.5	11.0	11.5	10.5	10.5	10.0	12.5	12.0	16.5	15.5
26	19.5	17.5	12.5	11.0	11.0	10.0	10.5	10.0	12.5	12.0	15.5	14.5
27	19.5	17.5	12.0	10.5	10.5	9.5	10.5	10.0	12.0	11.5	15.5	14.5
28	19.5	17.5	12.0	10.5	10.5	9.0	11.0	10.0	12.0	11.5	15.5	14.0
29	19.0	17.5	12.0	10.5	10.5	9.0	11.0	10.5	12.5	11.5	15.5	13.5
30	---	---	11.5	11.0	10.5	9.0	11.0	10.5	---	---	15.5	14.0
31	17.0	15.5	---	---	10.5	9.0	11.0	10.5	---	---	15.5	14.5
MONTH	---	---	---	---	12.5	9.0	11.0	8.5	13.0	10.5	19.0	11.5
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	16.0	14.5	19.0	17.0	20.0	18.0	20.0	19.0	20.5	19.5	---	---
2	16.0	14.0	19.5	17.0	20.0	18.0	20.0	19.0	20.0	19.5	---	---
3	16.5	14.5	20.0	17.5	20.0	18.5	20.0	19.0	20.5	19.0	22.0	21.0
4	16.0	14.5	20.0	17.5	19.5	18.5	20.0	19.0	20.5	19.5	22.0	21.0
5	16.0	14.5	19.0	18.0	19.5	18.0	20.0	19.5	20.5	19.5	22.5	21.0
6	16.0	14.5	18.5	18.0	19.5	18.5	20.0	19.5	20.5	19.5	23.0	21.0
7	16.0	15.0	18.5	17.5	19.0	18.5	20.0	19.5	21.5	20.0	23.0	21.0
8	16.5	15.0	19.0	17.5	19.0	18.5	20.0	19.0	21.5	20.0	23.0	21.5
9	16.5	15.0	18.5	18.0	19.5	18.5	19.5	19.0	22.0	20.5	23.5	21.5
10	16.5	15.0	18.5	17.5	19.5	19.0	19.5	19.0	21.5	20.5	23.0	21.5
11	16.5	15.0	18.5	17.5	19.5	18.5	20.0	19.0	21.5	20.5	22.5	21.5
12	16.5	15.0	19.0	17.5	19.5	18.5	20.0	19.5	21.5	20.5	22.0	21.5
13	16.5	15.5	19.5	17.5	20.0	19.0	20.5	19.5	21.5	20.5	22.0	20.5
14	---	---	19.5	17.5	20.0	19.0	20.5	19.5	21.0	20.0	22.0	21.0
15	16.5	15.5	19.5	17.5	20.5	19.0	20.5	19.5	21.0	20.0	22.5	21.5
16	16.5	15.0	19.0	18.0	21.0	19.0	21.0	20.0	21.5	20.0	22.5	21.5
17	16.5	15.5	19.0	18.0	20.0	19.5	21.5	20.0	21.5	20.5	22.0	21.5
18	16.0	15.0	19.0	17.5	20.0	19.5	21.5	20.5	21.5	20.5	21.5	20.0
19	---	---	19.0	18.0	20.0	19.0	22.0	20.5	21.0	20.5	20.5	19.0
20	16.0	15.0	19.0	18.0	20.0	19.0	22.0	21.0	21.0	20.0	20.0	19.0
21	16.0	15.0	18.5	18.0	20.0	19.0	22.0	21.0	21.0	20.0	20.0	19.0
22	16.5	15.0	18.0	17.5	20.0	19.0	22.0	21.5	20.5	20.0	20.0	19.5
23	16.5	14.5	18.0	17.5	20.0	19.0	21.5	21.0	20.5	20.0	20.0	19.5
24	17.0	14.5	18.0	17.5	20.0	19.0	21.5	21.0	20.5	20.0	21.0	19.5
25	17.0	15.0	18.0	17.5	20.0	19.5	21.5	20.5	21.0	20.0	21.0	20.0
26	18.0	15.0	---	---	20.5	19.5	21.5	21.0	21.0	20.5	21.0	20.0
27	18.0	15.0	18.5	17.5	20.5	19.5	21.5	20.5	22.0	20.5	---	---
28	18.5	16.0	19.0	17.5	20.5	19.5	21.0	20.5	22.5	21.0	20.0	19.5
29	18.5	16.5	19.0	17.5	20.0	19.5	21.0	20.0	22.5	21.0	19.5	19.0
30	19.0	16.5	19.5	17.5	20.0	19.5	20.5	20.0	22.0	21.0	19.5	18.5
31	---	---	19.5	18.0	---	---	20.5	20.0	22.0	21.0	---	---
MONTH	---	---	---	---	21.0	18.0	22.0	19.0	22.5	19.0	---	---

11458500 SONOMA CREEK AT AGUA CALIENTE, CA

LOCATION.—Lat 38°19'24", long 122°29'36", in Agua Caliente Grant, [Sonoma County](#), Hydrologic Unit 18050002, on right bank, 5 ft upstream from bridge, and 0.4 mi west of Agua Caliente.

DRAINAGE AREA.—58.4 mi².

PERIOD OF RECORD.—Water years 1955 to 1981, October 2001 to current year. Prior to October 1966, published as "at Boyes Hot Springs."

GAGE.—Water-stage recorder. Datum of gage is 94.28 ft above NGVD of 1929. Prior to July 24, 1967, at site 0.8 mi downstream at different datum. July 24, 1967, to Oct. 9, 1968, at site 130 ft upstream at different datum.

REMARKS.—Records good. No regulation; some diversion above station for irrigation of about 2,000 acres.

EXTREMES FOR PERIOD OF RECORD.—Maximum discharge, 8,880 ft³/s, Dec. 22, 1955, gage height, 17.10 ft, site and datum then in use, from rating curve extended above 4,100 ft³/s, on basis of slope-area measurement of maximum flow, maximum gage height, 28.05 ft, Dec. 16, 2002; no flow at times.

EXTREMES FOR CURRENT YEAR.—Peak discharges greater than base discharge of 2,300 ft³/s, or maximum:

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Dec. 24	0900	2,590	17.09	Feb. 16	1430	4,190	20.49
Dec. 29	1045	6,180	24.68	Feb. 25	0945	4,050	20.19

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.0	1.3	15	1530	36	222	22	9.6	3.5	1.7	0.80	0.12
2	1.1	1.6	19	525	345	170	21	9.1	3.3	1.5	0.78	0.12
3	1.2	3.1	6.9	282	231	134	20	8.2	3.2	1.5	0.82	0.12
4	1.2	2.3	4.7	180	144	115	20	7.4	3.2	1.4	0.78	0.13
5	1.2	1.8	11	139	108	99	20	7.0	3.0	1.5	0.71	0.15
6	1.1	1.6	32	113	91	87	20	7.1	2.8	1.4	0.59	0.16
7	1.1	2.6	44	108	83	77	18	7.2	2.7	1.5	0.47	0.15
8	1.1	8.7	13	93	69	70	17	7.2	2.5	1.5	0.48	0.13
9	1.1	16	27	151	60	62	17	6.9	3.1	1.6	0.43	0.10
10	1.00	5.2	197	143	53	57	16	6.4	2.8	1.8	0.41	0.09
11	0.98	2.5	57	107	48	52	15	5.9	2.6	1.6	0.39	0.08
12	0.95	2.0	30	89	44	49	15	6.0	2.5	1.3	0.44	0.07
13	1.0	1.9	69	77	42	45	14	5.9	2.2	1.2	0.41	0.07
14	0.99	2.7	222	70	40	42	14	5.6	2.0	1.2	0.39	0.07
15	1.0	3.1	65	63	37	38	14	5.3	2.2	1.1	0.47	0.07
16	1.0	2.7	38	56	1440	36	14	4.8	2.0	1.0	0.50	0.06
17	1.1	2.3	28	51	2000	33	14	4.9	2.1	0.96	0.44	0.06
18	1.2	2.2	23	46	1390	32	15	4.7	2.2	0.91	0.44	0.06
19	1.2	2.2	24	42	537	31	18	5.0	2.2	0.85	0.32	0.07
20	1.2	2.3	84	40	326	29	33	4.9	2.1	0.75	0.31	0.07
21	1.2	2.3	82	36	231	28	19	4.6	2.0	0.69	0.31	0.05
22	1.2	2.1	47	33	196	28	16	4.9	1.8	0.74	0.33	0.05
23	1.2	2.3	65	32	154	27	14	4.9	1.7	0.74	0.35	0.04
24	1.2	2.3	1030	34	148	25	13	4.7	1.9	0.69	0.40	0.04
25	1.1	2.4	201	30	1340	46	12	4.5	1.7	0.83	0.31	0.04
26	1.1	2.4	101	28	626	39	11	4.3	1.7	0.71	0.27	0.04
27	0.99	2.5	68	71	419	33	11	4.4	1.7	0.52	0.22	0.04
28	1.0	2.5	55	56	279	29	10	4.3	1.9	0.64	0.14	0.04
29	1.0	2.7	2710	43	208	26	9.1	4.3	1.9	0.70	0.14	0.04
30	1.0	4.2	641	40	---	25	9.0	3.7	1.6	0.79	0.14	0.04
31	1.1	---	248	37	---	24	---	3.6	---	0.78	0.13	---
TOTAL	33.81	93.8	6257.6	4345	10725	1810	481.1	177.3	70.1	34.10	13.12	2.37
MEAN	1.09	3.13	202	140	370	58.4	16.0	5.72	2.34	1.10	0.42	0.08
MAX	1.2	16	2710	1530	2000	222	33	9.6	3.5	1.8	0.82	0.16
MIN	0.95	1.3	4.7	28	36	24	9.0	3.6	1.6	0.52	0.13	0.04
AC-FT	67	186	12410	8620	21270	3590	954	352	139	68	26	4.7

11458500 SONOMA CREEK AT AGUA CALIENTE, CA—Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1955 - 2004, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	6.68	26.3	141	250	221	113	62.5	13.7	4.49	1.69	0.92	0.76
MAX	130	233	737	791	766	388	418	55.1	19.2	6.29	3.15	4.04
(WY)	1963	1974	1956	1970	1958	1975	1958	2003	1967	1967	1967	1959
MIN	0.00	0.22	0.96	2.46	2.21	5.17	0.76	0.84	0.07	0.00	0.00	0.00
(WY)	1962	1960	1960	1977	1977	1977	1977	1977	1977	1959	1955	1961

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1955 - 2004	
ANNUAL TOTAL	18024.87		24043.30			
ANNUAL MEAN	49.4		65.7		69.9	
HIGHEST ANNUAL MEAN					157	1956
LOWEST ANNUAL MEAN					1.38	1977
HIGHEST DAILY MEAN	2710	Dec 29	2710	Dec 29	6190	Jan 21 1967
LOWEST DAILY MEAN	0.56	Sep 15	0.04	Sep 23	0.00	Jul 6 1955
ANNUAL SEVEN-DAY MINIMUM	0.75	Sep 11	0.04	Sep 23	0.00	Jul 25 1955
MAXIMUM PEAK FLOW			6180	Dec 29	8880	Dec 22 1955
MAXIMUM PEAK STAGE			24.68	Dec 29	28.05	Dec 16 2002
ANNUAL RUNOFF (AC-FT)	35750		47690		50620	
10 PERCENT EXCEEDS	100		110		138	
50 PERCENT EXCEEDS	14		4.3		4.6	
90 PERCENT EXCEEDS	1.0		0.30		0.31	

11459500 NOVATO CREEK AT NOVATO, CA

LOCATION.—Lat 38°06'28", long 122°34'44", in Novato Grant, Marin County, Hydrologic Unit 18050002, on left bank, in Novato, 100 ft upstream from 7th Street Bridge, and 3.9 mi downstream from Novato Creek Dam.

DRAINAGE AREA.—17.6 mi².

PERIOD OF RECORD.—October 1946 to current year. Prior to October 1966, published as "near Novato."

GAGE.—Water-stage recorder. Datum of gage is 14.76 ft above NGVD of 1929. Prior to Aug. 23, 1967, at site 0.6 mi upstream at different datum.

REMARKS.—Records good except for estimated daily discharges, which are fair. Flow regulated by Stafford Lake beginning Dec. 1, 1951, capacity, 4,500 acre-ft, since Oct. 18, 1954. Diversion from Stafford Lake for municipal water supply began Apr. 25, 1952.

EXTREMES FOR PERIOD OF RECORD.—Maximum discharge, 5,000 ft³/s, Jan. 4, 1982, gage height, 14.52 ft, from contracted opening and slope-area measurements of 3,800 ft³/s, at gage site, and slope-conveyance computations of 1,200 ft³/s, of overflow about 1 mi upstream, which entered the adjoining Warner Creek Basin; no flow for many days most years.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.16	0.14	e10	121	3.3	53	2.8	1.2	0.40	0.44	0.34	0.18
2	0.16	0.07	e6.6	51	52	44	2.4	1.1	0.72	0.45	0.33	0.16
3	0.09	0.31	e1.5	31	37	37	2.3	1.2	0.76	0.44	0.31	0.15
4	0.07	0.05	e1.5	21	23	32	2.5	1.2	0.78	0.45	0.26	0.13
5	0.04	0.00	5.9	16	15	27	2.5	1.2	0.77	0.46	0.23	0.12
6	0.03	0.02	6.0	13	12	23	2.2	1.2	0.74	0.46	0.22	0.12
7	0.01	0.49	4.2	12	10	20	2.1	1.1	0.74	0.55	0.20	0.13
8	0.01	7.2	1.4	11	8.6	17	2.0	1.1	0.71	0.47	0.20	0.12
9	0.02	8.3	10	15	7.4	15	1.7	1.0	0.75	0.49	0.20	0.10
10	0.00	1.0	30	18	6.5	13	1.5	1.0	0.79	0.53	0.20	0.10
11	0.00	0.59	15	13	5.7	11	1.5	1.0	0.75	0.50	0.21	0.11
12	0.00	0.52	4.0	10	5.1	10	1.6	1.0	0.75	0.49	0.18	0.11
13	0.06	0.61	5.9	8.9	4.7	9.2	1.7	0.99	0.69	0.49	0.17	0.12
14	0.02	0.77	20	8.1	4.4	8.3	1.5	0.95	0.64	0.49	0.18	0.11
15	0.00	0.97	5.7	7.7	4.0	7.8	1.5	0.98	0.61	0.45	0.21	0.11
16	0.00	0.58	3.4	7.0	80	7.0	1.4	0.92	0.61	0.44	0.21	0.09
17	0.01	0.58	2.8	6.0	112	6.4	1.3	0.95	0.67	0.41	0.20	0.08
18	0.00	0.48	2.3	5.1	136	6.1	2.0	0.91	0.70	0.39	0.38	0.15
19	0.00	e0.41	5.4	4.7	90	6.1	1.6	0.97	0.69	0.39	0.25	1.9
20	0.01	0.41	13	4.6	74	5.3	4.1	0.69	0.69	0.40	0.18	0.26
21	0.01	0.41	13	4.4	61	4.9	4.0	1.1	0.66	0.45	0.17	0.15
22	0.02	e0.41	5.9	3.9	60	5.0	3.8	0.58	1.1	0.76	0.17	0.12
23	0.01	e0.49	13	3.6	47	5.6	1.7	0.50	0.59	0.36	0.17	0.11
24	0.01	e0.50	62	4.3	40	4.9	1.0	0.50	0.49	0.37	0.17	0.10
25	0.00	0.55	26	3.6	244	8.1	0.91	0.48	0.49	0.37	0.17	0.11
26	0.00	e0.60	14	3.1	130	5.5	0.83	0.49	0.46	0.35	0.17	0.11
27	0.00	0.60	9.2	3.7	96	4.8	0.82	0.48	0.44	0.34	0.15	0.11
28	0.00	e0.62	6.9	3.7	75	4.2	0.83	0.70	0.45	0.33	0.13	0.13
29	0.00	0.72	155	3.0	60	3.7	0.80	0.45	0.85	0.33	0.12	0.15
30	0.00	e3.9	59	2.9	---	3.7	0.86	0.43	0.57	0.37	0.13	0.16
31	0.01	---	28	2.8	---	3.2	---	0.43	---	0.35	0.14	---
TOTAL	0.75	32.30	546.6	423.1	1503.7	411.8	55.75	26.80	20.06	13.57	6.35	5.60
MEAN	0.02	1.08	17.6	13.6	51.9	13.3	1.86	0.86	0.67	0.44	0.20	0.19
MAX	0.16	8.3	155	121	244	53	4.1	1.2	1.1	0.76	0.38	1.9
MIN	0.00	0.00	1.4	2.8	3.3	3.2	0.80	0.43	0.40	0.33	0.12	0.08
AC-FT	1.5	64	1080	839	2980	817	111	53	40	27	13	11

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1947 - 2004, BY WATER YEAR (WY)

MEAN	0.69	3.10	15.9	46.5	47.2	25.4	8.82	1.53	0.76	0.64	0.39	0.29
MAX	9.07	17.2	117	210	386	207	81.3	12.9	7.73	8.61	8.53	5.40
(WY)	1963	1974	1956	1995	1998	1983	1958	1983	1980	1980	1980	1967
MIN	0.00	0.00	0.00	0.26	0.35	0.84	0.17	0.02	0.00	0.00	0.00	0.00
(WY)	1947	1948	1950	1948	1948	1976	1977	1961	1951	1947	1947	1947

SUMMARY STATISTICS

	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1947 - 2004	
ANNUAL TOTAL	2493.43		3046.38			
ANNUAL MEAN	6.83		8.32		12.4	
HIGHEST ANNUAL MEAN					47.9	
LOWEST ANNUAL MEAN					0.40	
HIGHEST DAILY MEAN	155	Dec 29	244	Feb 25	2850	Jan 4 1982
LOWEST DAILY MEAN	0.00	Oct 10	0.00	Oct 10	0.00	Oct 1 1946
ANNUAL SEVEN-DAY MINIMUM	0.00	Oct 24	0.00	Oct 24	0.00	Oct 1 1946
MAXIMUM PEAK FLOW			868	Feb 25	5000	Jan 4 1982
MAXIMUM PEAK STAGE			7.55	Feb 25	14.52	Jan 4 1982
INSTANTANEOUS LOW FLOW					0.00	Oct 1 1946
ANNUAL RUNOFF (AC-FT)	4950		6040		9020	
10 PERCENT EXCEEDS	20		17		22	
50 PERCENT EXCEEDS	1.5		0.77		0.63	
90 PERCENT EXCEEDS	0.07		0.10		0.00	

e Estimated.

11460400 LAGUNITAS CREEK AT SAMUEL P. TAYLOR STATE PARK, CA

LOCATION.—Lat 38°01'37", long 122°44'07", [Marin County](#), Hydrologic Unit 18050005, in Samuel P. Taylor State Park, on left bank, 300 ft upstream from Deadman's Gulch, 0.9 mi downstream from park entrance, 2.1 mi northwest of Lagunitas, and 3.4 mi downstream from Kent Lake.

DRAINAGE AREA.—34.3 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.—December 1982 to current year.

GAGE.—Water-stage recorder and crest-stage gage. Datum of gage is 102.89 ft above NGVD of 1929.

REMARKS.—Records good except for estimated daily discharges, which are fair. Flow regulated by Kent Lake, capacity, 16,680 acre-ft, and Alpine Lake, capacity, 8,890 acre-ft, both of which divert for domestic and industrial use in Marin County.

EXTREMES FOR PERIOD OF RECORD.—Maximum discharge, 5,830 ft³/s, Feb. 3, 1998, gage height, 10.00 ft; minimum daily, 3.8 ft³/s, Oct. 16–18, 1986.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8.7	8.5	48	538	29	173	20	14	11	7.6	7.7	7.9
2	8.8	8.6	45	180	225	180	19	13	11	7.6	7.7	7.9
3	8.8	8.7	32	94	162	154	18	13	11	7.4	7.7	8.0
4	8.8	8.6	21	61	107	127	18	12	11	7.4	7.7	7.9
5	8.8	8.6	27	45	75	102	17	12	12	7.4	7.6	7.8
6	8.7	8.8	41	36	57	86	17	12	12	7.7	7.6	7.8
7	8.7	8.9	39	35	48	74	17	12	12	8.1	7.6	7.8
8	8.8	13	26	50	41	64	18	12	12	8.0	7.6	8.1
9	8.7	14	45	201	37	55	18	12	12	7.7	7.6	8.4
10	8.8	9.3	69	161	33	48	17	12	12	7.7	7.6	8.4
11	8.8	8.9	71	89	31	41	17	11	12	7.7	e7.6	8.2
12	8.8	8.9	39	61	29	35	17	11	12	7.6	e7.6	8.3
13	8.8	9.0	39	46	28	30	17	11	12	7.6	e7.3	8.4
14	8.6	9.3	e78	38	26	26	16	11	11	7.9	7.3	8.4
15	8.4	9.5	e45	33	26	24	16	11	11	7.8	e7.8	8.3
16	8.3	9.1	e29	29	473	23	16	11	8.8	7.4	e7.7	8.3
17	8.3	8.9	e24	28	660	22	17	11	8.2	7.5	e7.7	8.3
18	8.4	8.8	22	27	839	22	17	13	7.9	7.7	7.9	8.4
19	8.4	8.7	26	27	467	22	19	12	7.9	7.7	e8.1	8.7
20	8.4	8.8	44	27	288	22	38	12	7.8	7.7	7.9	8.6
21	8.4	8.8	58	26	199	22	20	12	7.8	7.7	e7.8	8.5
22	8.4	8.9	33	26	157	21	17	12	7.8	7.6	7.6	8.4
23	8.4	8.9	43	26	120	21	17	12	7.7	7.7	e7.7	8.3
24	8.4	9.0	492	26	105	21	16	11	7.7	7.7	7.8	8.2
25	8.4	8.9	111	26	567	31	15	11	7.6	7.6	7.6	8.4
26	8.4	9.0	54	26	556	27	16	11	7.6	7.6	7.5	8.4
27	8.2	24	34	44	339	24	16	11	7.6	7.6	7.5	8.5
28	8.2	37	26	37	224	22	16	11	7.7	7.6	7.4	8.5
29	8.2	36	990	32	163	22	16	11	7.6	7.6	7.4	8.5
30	8.3	39	219	31	---	21	15	11	7.7	7.6	7.5	8.5
31	8.5	---	93	29	---	21	---	11	---	7.6	7.8	---
TOTAL	264.6	376.4	2963	2135	6111	1583	533	362	291.4	237.1	236.9	248.1
MEAN	8.54	12.5	95.6	68.9	211	51.1	17.8	11.7	9.71	7.65	7.64	8.27
MAX	8.8	39	990	538	839	180	38	14	12	8.1	8.1	8.7
MIN	8.2	8.5	21	26	26	21	15	11	7.6	7.4	7.3	7.8
AC-FT	525	747	5880	4230	12120	3140	1060	718	578	470	470	492

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1983 - 2004, BY WATER YEAR (WY)

	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	
MEAN	8.39	23.6	62.7	120	168	103	28.7	19.2	9.78	7.17	6.67	6.63											
MAX	13.4	66.3	201	568	796	503	96.6	66.9	26.6	8.69	8.75	8.90											
(WY)	1990	1985	1997	1995	1998	1983	1999	1995	1998	1995	2002	1996											
MIN	4.34	4.74	6.84	14.5	11.2	13.6	8.39	7.43	6.30	4.92	4.44	4.29											
(WY)	1987	1987	1987	1991	1989	1988	1987	1987	1987	1992	1984	1984											

SUMMARY STATISTICS

	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1983 - 2004	
ANNUAL TOTAL	13448.8		15341.5			
ANNUAL MEAN	36.8		41.9		43.6	
HIGHEST ANNUAL MEAN					112	
LOWEST ANNUAL MEAN					14.7	
HIGHEST DAILY MEAN	990		990		2870	
LOWEST DAILY MEAN	7.9		7.3		3.8	
ANNUAL SEVEN-DAY MINIMUM	8.0		7.5		4.0	
MAXIMUM PEAK FLOW			3230		5830	
MAXIMUM PEAK STAGE			8.24		10.00	
ANNUAL RUNOFF (AC-FT)	26680		30430		31550	
10 PERCENT EXCEEDS	77		74		74	
50 PERCENT EXCEEDS	13		12		12	
90 PERCENT EXCEEDS	8.3		7.6		5.5	

e Estimated.

11460400 LAGUNITAS CREEK AT SAMUEL P. TAYLOR STATE PARK, CA—Continued

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Time	Instantaneous discharge, cfs (00061)	Temperature, water, deg C (00010)	Suspended sediment concentration mg/L (80154)	Suspended sediment discharge, tons/d (80155)	Suspnd. sediment, sieve diameter percent <.063mm (70331)	Suspnd. sediment, sieve diameter percent <.125mm (70332)	Suspnd. sediment, sieve diameter percent <.25mm (70333)	Suspnd. sediment, sieve diameter percent <.5 mm (70334)
OCT									
24...	0855	8.5	11.0	2	.05	82	96	100	--
NOV									
07...	0915	8.7	12.0	4	.09	69	--	--	--
DEC									
05...	1145	30	11.5	5	.40	97	98	100	--
24...	0900	1190	12.0	356	1140	81	93	99	100
JAN									
13...	1445	45	10.5	5	.61	92	98	100	--
FEB									
17...	1800	801	12.0	168	363	58	78	96	100
MAR									
25...	1515	28	11.5	20	1.5	85	86	100	--
APR									
13...	1315	17	10.0	3	.14	87	96	100	--
MAY									
12...	1115	11	11.0	3	.09	81	86	100	--

PARTICLE-SIZE DISTRIBUTION OF SURFACE BED MATERIAL, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Time	Temperature, water, deg C (00010)	Number of sampling points, count (00063)	Instantaneous discharge, cfs (00061)	Bed sediment, dry svsd percent <.063mm (80164)	Bed sediment, dry svsd percent <.125mm (80165)	Bed sediment, dry svsd percent <.25mm (80166)	Bed sediment, dry svsd percent <.5 mm (80167)
OCT								
24...	1000	11.0	1	8.5	2	5	9	15
24...	1005	11.0	1	8.5	3	6	11	19
24...	1010	11.0	1	8.5	3	10	22	29
24...	1015	11.0	1	8.5	--	1	2	6
24...	1020	11.0	1	8.5	--	1	2	4
24...	1025	11.0	1	8.5	--	--	1	5
24...	1030	11.0	1	8.5	13	20	31	41
24...	1035	11.0	1	8.4	5	11	20	31
24...	1040	11.0	1	8.4	3	7	14	23
MAY								
24...	1150	12.0	1	11	8	22	53	72
24...	1155	12.0	1	11	2	9	21	29
24...	1200	12.0	1	11	4	13	36	50
24...	1205	12.0	1	11	--	--	1	5
24...	1210	12.0	1	11	--	--	1	3
24...	1215	12.0	1	11	--	--	1	4
24...	1220	12.0	1	11	--	1	3	10
24...	1225	12.0	1	11	1	2	7	17
24...	1230	12.0	1	11	7	18	40	64

11460400 LAGUNITAS CREEK AT SAMUEL P. TAYLOR STATE PARK, CA—Continued

PARTICLE-SIZE DISTRIBUTION OF SURFACE BED MATERIAL, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Bed sedi- ment, dry svd sve dia percent (80168)	Bed sedi- ment, dry svd sve dia percent (80169)	Bed sedi- ment, dry svd sve dia percent (80170)	Bed sedi- ment, dry svd sve dia percent (80171)	Bed sedi- ment, dry svd sve dia percent (80172)	Bed sedi- ment, dry svd sve dia percent (80173)	Bed sedi- ment, dry svd sve dia percent (80174)
OCT							
24...	24	38	56	70	91	100	--
24...	28	37	48	59	75	100	--
24...	32	36	44	58	79	100	--
24...	9	13	18	24	33	84	100
24...	8	13	19	27	38	65	100
24...	12	19	26	34	45	82	100
24...	49	61	68	69	72	100	--
24...	43	59	76	82	94	100	--
24...	32	45	60	72	90	100	--
MAY							
24...	85	91	93	96	98	100	--
24...	32	37	46	58	70	100	--
24...	54	56	57	59	63	100	--
24...	8	10	15	24	38	67	100
24...	7	13	20	29	43	100	--
24...	12	23	34	51	75	100	--
24...	21	28	35	48	68	100	--
24...	27	40	54	71	82	100	--
24...	83	93	95	96	100	--	--

SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY), WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAY	MEAN	MEAN	SEDIMENT	MEAN	MEAN	SEDIMENT	MEAN	MEAN	SEDIMENT
	DISCHARGE (CFS)	CONCEN- TRATION (MG/L)	DISCHARGE (TONS/DAY)	DISCHARGE (CFS)	CONCEN- TRATION (MG/L)	DISCHARGE (TONS/DAY)	DISCHARGE (CFS)	CONCEN- TRATION (MG/L)	DISCHARGE (TONS/DAY)
	OCTOBER			NOVEMBER			DECEMBER		
1	8.7	2	0.05	8.5	2	0.06	48	15	2.0
2	8.8	2	0.05	8.6	2	0.06	45	14	1.7
3	8.8	2	0.05	8.7	2	0.06	32	10	0.88
4	8.8	2	0.05	8.6	2	0.06	21	6	0.33
5	8.8	2	0.05	8.6	2	0.06	27	7	0.50
6	8.7	2	0.05	8.8	4	0.08	41	12	2.1
7	8.7	2	0.05	8.9	4	0.10	39	8	1.1
8	8.8	2	0.05	13	10	0.56	26	2	0.15
9	8.7	2	0.05	14	15	0.70	45	6	1.4
10	8.8	2	0.05	9.3	7	0.18	69	15	3.3
11	8.8	2	0.05	8.9	7	0.17	71	13	2.8
12	8.8	2	0.05	8.9	7	0.17	39	6	0.62
13	8.8	2	0.05	9.0	7	0.17	39	6	0.66
14	8.6	2	0.05	9.3	7	0.19	e78	e10	e2.1
15	8.4	2	0.05	9.5	7	0.18	e45	e4	e0.49
16	8.3	2	0.05	9.1	7	0.16	e29	e3	e0.23
17	8.3	2	0.04	8.9	6	0.15	e24	e3	e0.19
18	8.4	2	0.05	8.8	6	0.15	22	2	0.14
19	8.4	2	0.05	8.7	6	0.14	26	3	0.24
20	8.4	2	0.05	8.8	6	0.14	44	9	1.3
21	8.4	2	0.05	8.8	6	0.14	58	11	1.8
22	8.4	2	0.05	8.9	6	0.15	33	4	0.35
23	8.4	2	0.05	8.9	6	0.15	43	5	0.75
24	8.4	2	0.05	9.0	6	0.15	492	168	417
25	8.4	2	0.04	8.9	6	0.15	111	13	4.2
26	8.4	2	0.05	9.0	7	0.16	54	8	1.2
27	8.2	2	0.05	24	20	1.9	34	5	0.50
28	8.2	2	0.05	37	16	1.6	26	4	0.27
29	8.2	2	0.05	36	10	1.0	990	443	2070
30	8.3	2	0.06	39	11	1.2	219	33	22
31	8.5	2	0.06	---	---	---	93	9	2.5
TOTAL	264.6	---	1.55	376.4	---	10.14	2963	---	2542.80

e Estimated.

LAGUNITAS CREEK BASIN

11460400 LAGUNITAS CREEK AT SAMUEL P. TAYLOR STATE PARK, CA—Continued

SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY), WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAY	MEAN	MEAN	SEDIMENT	MEAN	MEAN	SEDIMENT	MEAN	MEAN	SEDIMENT
	DISCHARGE (CFS)	CONCEN- TRATION (MG/L)	DISCHARGE (TONS/DAY)	DISCHARGE (CFS)	CONCEN- TRATION (MG/L)	DISCHARGE (TONS/DAY)	DISCHARGE (CFS)	CONCEN- TRATION (MG/L)	DISCHARGE (TONS/DAY)
	JANUARY			FEBRUARY			MARCH		
1	538	161	422	29	2	0.15	173	4	2.0
2	180	25	13	225	174	216	180	5	2.6
3	94	10	2.6	162	22	9.8	154	5	2.1
4	61	5	0.86	107	12	3.7	127	4	1.5
5	45	3	0.42	75	7	1.3	102	4	1.0
6	36	3	0.29	57	5	0.79	86	3	0.69
7	35	3	0.28	48	3	0.45	74	2	0.48
8	50	4	0.55	41	2	0.21	64	2	0.32
9	201	39	37	37	2	0.17	55	2	0.23
10	161	21	10	33	2	0.15	48	1	0.19
11	89	9	2.3	31	2	0.15	41	1	0.15
12	61	7	1.1	29	2	0.13	35	1	0.11
13	46	5	0.65	28	2	0.12	30	1	0.07
14	38	4	0.45	26	2	0.13	26	1	0.06
15	33	4	0.37	26	2	0.14	24	1	0.06
16	29	3	0.21	473	158	361	23	2	0.10
17	28	2	0.15	660	149	328	22	4	0.26
18	27	2	0.15	839	96	241	22	4	0.24
19	27	2	0.15	467	13	17	22	2	0.11
20	27	2	0.14	288	10	7.3	22	2	0.12
21	26	2	0.14	199	13	7.1	22	2	0.13
22	26	2	0.14	157	9	3.9	21	2	0.12
23	26	2	0.14	120	6	1.9	21	2	0.10
24	26	2	0.13	105	5	1.4	21	2	0.11
25	26	2	0.14	567	196	404	31	16	2.0
26	26	2	0.14	556	51	84	27	6	0.48
27	44	4	0.50	339	12	11	24	5	0.31
28	37	3	0.34	224	6	4.0	22	4	0.22
29	32	3	0.23	163	4	1.9	22	4	0.21
30	31	3	0.25	---	---	---	21	4	0.21
31	29	3	0.24	---	---	---	21	3	0.17
TOTAL	2135	---	495.06	6111	---	1706.89	1583	---	16.45
	APRIL			MAY					
1	20	2	0.13	14	5	0.20			
2	19	2	0.09	13	5	0.19			
3	18	2	0.09	13	5	0.17			
4	18	2	0.09	12	5	0.16			
5	17	2	0.10	12	5	0.15			
6	17	2	0.10	12	5	0.15			
7	17	2	0.08	12	5	0.15			
8	18	4	0.19	12	4	0.12			
9	18	7	0.35	12	4	0.11			
10	17	7	0.32	12	4	0.14			
11	17	7	0.31	11	5	0.14			
12	17	7	0.30	11	3	0.09			
13	17	5	0.22	11	4	0.11			
14	16	3	0.12	11	5	0.14			
15	16	3	0.13	11	4	0.12			
16	16	4	0.18	11	3	0.10			
17	17	7	0.32	11	3	0.10			
18	17	7	0.31	13	3	0.11			
19	19	8	0.45	12	3	0.08			
20	38	19	2.3	12	2	0.06			
21	20	9	0.48	12	2	0.06			
22	17	8	0.35	12	2	0.05			
23	17	6	0.28	12	1	0.04			
24	16	6	0.25	11	1	0.03			
25	15	6	0.25	11	1	0.03			
26	16	6	0.28	11	1	0.02			
27	16	6	0.27	11	1	0.03			
28	16	6	0.25	11	1	0.03			
29	16	6	0.24	11	1	0.02			
30	15	5	0.23	11	1	0.03			
31	---	---	---	11	1	0.03			
TOTAL	533	---	9.06	362	---	2.96			
PERIOD				14328		4784.91			

11460600 LAGUNITAS CREEK NEAR POINT REYES STATION, CA—Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.—Water years 1977, 1990, 1999–2001, October 2003 to September 2004.

CHEMICAL DATA: Water years 1977, 1999–2001.

WATER TEMPERATURE: Water year 1990.

SEDIMENT DATA: Water years 1990, 1999–2001, October 2003 to September 2004.

PERIOD OF DAILY RECORD.—October 1989 to April 1990.

WATER TEMPERATURE: October 1989 to April 1990.

SUSPENDED-SEDIMENT DISCHARGE: October 1989 to April 1990

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Time	Instantaneous discharge, cfs (00061)	Temperature, water, deg C (00010)	Suspended sediment concentration, mg/L (80154)	Suspended sediment discharge, tons/d (80155)	Suspended sediment, sieve diameter, percent <.063mm (70331)
OCT						
24...	1315	8.3	13.5	3	.07	73
NOV						
07...	1305	11	11.0	2	.06	--
MAY						
13...	0830	14	13.5	3	.11	85

PARTICLE-SIZE DISTRIBUTION OF SURFACE BED MATERIAL, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Time	Location in X-sect. looking downstrm ft from l bank (00009)	Number of sampling points, count (00063)	Instantaneous discharge, cfs (00061)	Temperature, water, deg C (00010)	Bed sediment, dry svd sve dia percent <.063mm (80164)	Bed sediment, dry svd sve dia percent <.125mm (80165)	Bed sediment, dry svd sve dia percent <.25mm (80166)
NOV								
07...	1245	10	1	11	11.0	3	7	14
07...	1240	20	1	11	11.0	2	6	12
07...	1235	30	1	11	11.0	3	6	11
07...	1230	40	1	11	11.0	3	7	15
07...	1225	50	1	11	11.0	2	6	33
07...	1150	60	1	11	11.0	--	1	2
07...	1155	70	1	11	11.0	--	1	2
07...	1200	80	1	11	11.0	--	1	3
07...	1205	90	1	11	11.0	3	10	27
07...	1210	100	1	11	11.0	7	20	44
07...	1215	110	1	11	11.0	4	8	15
MAY								
24...	1615	33	1	14	15.0	3	7	18
24...	1610	44	1	14	15.0	3	10	30
24...	1520	55	1	14	15.0	5	15	41
24...	1525	66	1	14	15.0	--	1	2
24...	1535	77	1	14	15.0	1	2	4
24...	1540	88	1	13	15.0	1	3	7
24...	1545	99	1	13	15.0	6	15	30
24...	1550	110	1	13	15.0	3	8	18

11460600 LAGUNITAS CREEK NEAR POINT REYES STATION, CA—Continued

PARTICLE-SIZE DISTRIBUTION OF SURFACE BED MATERIAL, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Bed sedi- ment, dry svd sve dia <.5 mm (80167)	Bed sedi- ment, dry svd sve dia <1 mm (80168)	Bed sedi- ment, dry svd sve dia <2 mm (80169)	Bed sedi- ment, dry svd sve dia <4 mm (80170)	Bed sedi- ment, dry svd sve dia <8 mm (80171)	Bed sedi- ment, dry svd sve dia <16 mm (80172)	Bed sedi- ment, dry svd sve dia <32 mm (80173)	Bed sedi- ment, dry svd sve dia <64 mm (80174)
NOV								
07...	24	32	38	46	54	74	95	100
07...	19	25	34	48	64	82	100	--
07...	15	21	32	48	62	78	86	100
07...	24	30	38	48	58	75	100	--
07...	87	94	97	99	100	--	--	--
07...	9	24	42	61	76	91	100	--
07...	3	6	12	26	53	82	100	--
07...	5	6	8	13	24	53	100	--
07...	45	50	61	84	93	100	--	--
07...	58	67	79	92	100	--	--	--
07...	22	28	38	50	59	76	100	--
MAY								
24...	28	32	38	45	52	66	100	--
24...	60	69	74	80	84	89	100	--
24...	64	70	73	75	76	81	100	--
24...	9	21	36	51	66	84	100	--
24...	8	10	14	21	33	56	100	--
24...	10	11	12	14	22	41	100	--
24...	40	47	55	65	74	94	100	--
24...	26	33	40	45	53	79	100	--

11460750 WALKER CREEK NEAR MARSHALL, CA

LOCATION.—Lat 38°10'33", long 122°49'02", in Souljule (Vasquez) Grant, [Marin County](#), Hydrologic Unit 18050005, on right bank, 0.8 mi downstream from Verde Canyon, 2.8 mi below confluence of Arroyo Sausal and Salmon Creek, and 4.0 mi east of Marshall.

DRAINAGE AREA.—31.1 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.—October 1983 to current year.

GAGE.—Water-stage recorder and crest-stage gage. Elevation of gage is 140 ft above NGVD of 1929, from topographic map.

REMARKS.—Records good. Flow affected by regulation and diversions and by Souljule Reservoir on Arroyo Sausal; reservoir capacity, 10,570 acre-ft.

EXTREMES FOR PERIOD OF RECORD.—Maximum discharge, 10,500 ft³/s, Feb. 2, 1998, gage height, 14.21 ft, from rating curve extended above 1,100 ft³/s, on basis of comparison with discontinued downstream station "Walker Creek near Tomales"; minimum daily, 0.73 ft³/s, Nov. 26, 1991.

EXTREMES OUTSIDE OF PERIOD OF RECORD.—Flood of Jan. 4, 1982, reached a stage of 15.9 ft, present datum, from floodmarks, discharge, 14,600 ft³/s.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.3	5.9	7.1	794	24	74	13	13	6.2	6.2	5.9	5.7
2	5.3	5.9	6.8	358	118	66	13	13	6.2	6.1	5.9	5.8
3	5.3	6.1	5.9	171	157	53	13	13	6.3	6.2	5.9	5.7
4	5.3	5.8	6.0	96	118	45	13	13	6.3	6.2	5.8	5.7
5	5.2	5.8	7.2	68	84	39	13	10	6.3	6.1	5.8	5.7
6	5.2	6.1	12	52	68	34	13	6.6	6.2	6.1	5.8	5.7
7	5.2	6.4	9.3	46	61	30	12	6.5	6.2	6.2	5.7	5.7
8	5.2	8.4	7.2	44	51	27	12	6.5	6.2	6.2	5.6	5.8
9	5.2	7.0	11	107	44	24	12	6.4	6.3	6.2	5.6	5.8
10	5.2	6.4	20	118	38	21	12	6.3	6.3	6.1	5.6	5.8
11	5.2	6.1	16	80	34	20	12	6.3	6.2	6.0	5.5	5.8
12	5.2	6.0	14	58	31	19	12	6.2	6.2	6.0	5.5	6.0
13	5.2	6.0	25	48	28	18	12	6.3	6.1	6.0	5.5	6.0
14	5.2	6.5	48	44	26	17	12	6.3	6.2	5.9	5.6	5.9
15	5.2	6.2	21	45	24	17	12	6.3	6.1	5.8	5.6	5.9
16	5.2	5.7	16	40	467	16	12	6.3	6.1	5.8	5.5	5.9
17	5.2	5.8	13	35	793	16	12	6.3	6.3	5.9	5.5	5.9
18	5.2	5.7	12	31	743	15	12	6.3	6.3	5.8	5.6	5.9
19	5.2	5.6	13	28	272	15	13	6.3	6.3	5.8	5.6	6.1
20	5.2	5.5	46	25	152	15	14	6.2	6.3	5.8	5.6	6.1
21	5.3	5.5	53	23	107	15	13	6.3	6.2	5.8	5.6	5.9
22	5.5	5.6	30	21	86	14	13	6.2	6.2	5.8	5.6	5.9
23	5.2	5.6	38	21	68	14	13	6.2	6.2	5.9	5.6	5.9
24	5.2	5.6	231	21	62	14	13	6.2	6.2	5.9	5.7	5.9
25	5.2	5.6	67	20	549	17	13	6.1	6.1	5.8	5.6	6.1
26	5.2	5.6	40	20	248	16	12	6.1	6.1	5.8	5.6	6.1
27	5.2	5.5	29	28	145	16	12	6.4	6.1	5.7	5.5	6.1
28	5.2	5.4	24	26	99	15	12	6.4	6.2	5.8	5.5	6.2
29	5.2	5.4	466	24	75	14	13	6.3	6.2	5.8	5.6	6.3
30	5.3	6.0	195	25	---	14	13	6.3	6.2	5.8	5.7	6.2
31	6.4	---	162	23	---	14	---	6.2	---	5.8	5.7	---
TOTAL	163.3	178.7	1651.5	2540	4772	744	376	225.8	186.3	184.3	174.8	177.5
MEAN	5.27	5.96	53.3	81.9	165	24.0	12.5	7.28	6.21	5.95	5.64	5.92
MAX	6.4	8.4	466	794	793	74	14	13	6.3	6.2	5.9	6.3
MIN	5.2	5.4	5.9	20	24	14	12	6.1	6.1	5.7	5.5	5.7
AC-FT	324	354	3280	5040	9470	1480	746	448	370	366	347	352

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1984 - 2004, BY WATER YEAR (WY)

MEAN	4.90	10.1	51.0	109	141	58.6	14.8	8.34	5.46	4.95	4.75	4.80
MAX	6.27	46.3	247	572	775	374	45.6	29.7	8.13	5.95	5.84	5.92
(WY)	1990	1984	1984	1995	1998	1995	1999	2003	1998	2004	1998	2004
MIN	1.35	1.23	1.85	1.71	2.14	10.4	5.52	2.18	1.90	1.42	1.42	1.22
(WY)	1991	1992	1991	1991	1991	1988	1991	1991	1991	1991	1991	1991

SUMMARY STATISTICS

FOR 2003 CALENDAR YEAR

FOR 2004 WATER YEAR

WATER YEARS 1984 - 2004

ANNUAL TOTAL	8209.7	11374.2		
ANNUAL MEAN	22.5	31.1	34.3	
HIGHEST ANNUAL MEAN			98.3	1998
LOWEST ANNUAL MEAN			7.41	1991
HIGHEST DAILY MEAN	466	Dec 29	794	Jan 1
LOWEST DAILY MEAN	4.2	Sep 16	5.2	Oct 5
ANNUAL SEVEN-DAY MINIMUM	4.5	Sep 11	5.2	Oct 5
MAXIMUM PEAK FLOW			1690	Jan 1
MAXIMUM PEAK STAGE			6.40	Jan 1
ANNUAL RUNOFF (AC-FT)	16280	22560	24880	
10 PERCENT EXCEEDS	54	54	48	
50 PERCENT EXCEEDS	6.7	6.3	6.0	
90 PERCENT EXCEEDS	5.2	5.5	4.4	

11460750 WALKER CREEK NEAR MARSHALL, CA—Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.—Water year 2004 to current year (storm season only).

WATER TEMPERATURE: Water year 2004 to current year (storm season only).

SEDIMENT DATA: Water year 2004 to current year (storm season only).

PERIOD OF DAILY RECORD.—

SUSPENDED-SEDIMENT DISCHARGE: October 2003 to current year (storm season only).

REMARKS.—Sediment samples were collected on most days where water temperature is published.

EXTREMES FOR PERIOD OF DAILY RECORD.—

SEDIMENT CONCENTRATION: Maximum daily mean, 649 mg/L, Feb. 16, 2004; minimum daily mean, 3 mg/L, Dec. 16–18, 2003, May 6, 9–12, 2004.

SEDIMENT LOAD: Maximum daily, 1,420 tons, Jan. 1, 2004; minimum daily, 0.05 ton, Oct. 20, 21, 24–29, 2003, May 12, 2004.

EXTREMES FOR CURRENT YEAR.—

SEDIMENT CONCENTRATION (storm season only): Maximum daily mean, 649 mg/L, Feb. 16; minimum daily mean, 3 mg/L, Dec. 16–18; May 6, 9–12.

SEDIMENT LOAD (storm season only): Maximum daily, 1,420 tons, Jan. 1; minimum daily, 0.05 ton, Oct. 20, 21, 24–29; May 12.

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Time	Instan- taneous dis- charge, cfs (00061)	Temper- ature, water, deg C (00010)	Sus- pended sedi- ment concen- tration mg/L (80154)	Sus- pended sedi- ment dis- charge, tons/d (80155)	Suspnd. sedi- ment, sieve diametr percent <.063mm (70331)	Suspnd. sedi- ment, sieve diametr percent <.125mm (70332)	Suspnd. sedi- ment, sieve diametr percent <.25mm (70333)	Suspnd. sedi- ment, sieve diametr percent <.5 mm (70334)	Suspnd. sedi- ment, sieve diametr percent <1 mm (70335)
OCT										
23...	1045	5.3	13.5	4	.06	90	98	100	--	--
NOV										
05...	1425	5.7	12.5	8	.12	86	--	--	--	--
DEC										
04...	1545	5.9	11.5	4	.06	68	--	--	--	--
20...	1330	20	11.0	8	.43	88	97	100	--	--
JAN										
01...	1510	1200	10.5	728	2360	59	73	89	98	100
14...	1445	51	10.0	12	1.6	94	98	100	--	--
FEB										
06...	1600	66	11.5	16	2.8	90	99	100	--	--
18...	1450	599	12.0	342	553	57	68	83	95	100
MAR										
25...	1740	28	12.5	24	1.8	93	100	--	--	--
APR										
14...	0930	12	11.0	7	.23	94	99	100	--	--
MAY										
13...	1145	6.3	13.5	6	.10	94	98	100	--	--

PARTICLE-SIZE DISTRIBUTION OF SURFACE BED MATERIAL, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Time	Number of sam- pling points, count (00063)	Instan- taneous dis- charge, cfs (00061)	Temper- ature, water, deg C (00010)	Bed sedi- ment, dry svd sve dia percent <.063mm (80164)	Bed sedi- ment, dry svd sve dia percent <.125mm (80165)	Bed sedi- ment, dry svd sve dia percent <.25mm (80166)	Bed sedi- ment, dry svd sve dia percent <.5 mm (80167)
OCT								
23...	1130	1	5.3	13.5	6	10	12	16
23...	1135	1	5.3	13.5	11	29	42	51
23...	1140	1	5.3	13.5	5	19	46	60
23...	1145	1	5.3	13.5	8	22	46	67
23...	1150	1	5.3	13.5	<1	1	3	8
23...	1155	1	5.3	13.5	<1	1	6	24
23...	1200	1	5.3	13.5	9	20	32	42
23...	1205	1	5.3	13.5	5	10	17	29
23...	1210	1	5.3	13.5	6	15	30	48
MAY								
26...	1545	1	5.9	15.5	11	22	36	44
26...	1550	1	5.9	15.5	5	13	30	43
26...	1555	1	5.9	15.5	12	28	48	58
26...	1600	1	5.9	15.5	7	21	71	93
26...	1605	1	5.9	15.5	5	14	29	41
26...	1610	1	5.9	15.5	1	3	6	10
26...	1615	1	5.9	15.5	<1	1	2	6
26...	1620	1	5.9	15.5	<1	1	2	7
26...	1625	1	5.9	15.5	1	3	9	34
26...	1630	1	5.9	15.5	20	50	81	91

< Actual value is known to be less than value shown.

11460750 WALKER CREEK NEAR MARSHALL, CA—Continued

SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY), WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAY	MEAN	MEAN	SEDIMENT	MEAN	MEAN	SEDIMENT	MEAN	MEAN	SEDIMENT
	DISCHARGE (CFS)	CONCEN- TRATION (MG/L)	DISCHARGE (TONS/DAY)	DISCHARGE (CFS)	CONCEN- TRATION (MG/L)	DISCHARGE (TONS/DAY)	DISCHARGE (CFS)	CONCEN- TRATION (MG/L)	DISCHARGE (TONS/DAY)
	OCTOBER			NOVEMBER			DECEMBER		
1	5.3	4	0.06	5.9	9	0.15	7.1	6	0.11
2	5.3	4	0.06	5.9	9	0.14	6.8	5	0.09
3	5.3	4	0.06	6.1	9	0.15	5.9	4	0.07
4	5.3	4	0.06	5.8	9	0.13	6.0	4	0.06
5	5.2	4	0.06	5.8	8	0.13	7.2	4	0.07
6	5.2	4	0.06	6.1	8	0.14	12	22	1.2
7	5.2	4	0.06	6.4	11	0.18	9.3	5	0.15
8	5.2	4	0.06	8.4	10	0.22	7.2	4	0.07
9	5.2	4	0.06	7.0	6	0.11	11	8	0.47
10	5.2	4	0.06	6.4	6	0.10	20	26	1.5
11	5.2	4	0.06	6.1	6	0.09	16	6	0.25
12	5.2	4	0.06	6.0	5	0.09	14	4	0.20
13	5.2	4	0.06	6.0	5	0.09	25	7	0.48
14	5.2	4	0.06	6.5	5	0.09	48	13	2.1
15	5.2	4	0.06	6.2	5	0.08	21	4	0.26
16	5.2	4	0.06	5.7	5	0.07	16	3	0.14
17	5.2	4	0.06	5.8	5	0.07	13	3	0.10
18	5.2	4	0.06	5.7	5	0.07	12	3	0.08
19	5.2	4	0.06	5.6	5	0.07	13	4	0.15
20	5.2	4	0.05	5.5	4	0.07	46	21	4.0
21	5.3	4	0.05	5.5	4	0.07	53	23	3.5
22	5.5	5	0.07	5.6	4	0.07	30	13	1.1
23	5.2	4	0.06	5.6	4	0.07	38	17	1.8
24	5.2	4	0.05	5.6	4	0.07	231	115	101
25	5.2	4	0.05	5.6	4	0.06	67	24	4.6
26	5.2	4	0.05	5.6	4	0.06	40	13	1.4
27	5.2	4	0.05	5.5	4	0.06	29	11	0.88
28	5.2	4	0.05	5.4	5	0.07	24	10	0.64
29	5.2	4	0.05	5.4	5	0.07	466	264	493
30	5.3	4	0.06	6.0	5	0.08	195	89	47
31	6.4	7	0.15	---	---	---	162	74	33
TOTAL	163.3	---	1.88	178.7	---	2.92	1651.5	---	699.47
	JANUARY			FEBRUARY			MARCH		
1	794	483	1420	24	8	0.54	74	32	6.4
2	358	212	220	118	32	13	66	28	5.1
3	171	88	42	157	39	17	53	22	3.2
4	96	44	12	118	28	9.1	45	24	2.9
5	68	27	5.0	84	22	5.1	39	21	2.2
6	52	21	3.0	68	18	3.4	34	18	1.7
7	46	19	2.3	61	13	2.2	30	16	1.3
8	44	18	2.1	51	10	1.4	27	15	1.1
9	107	52	22	44	9	1.1	24	13	0.81
10	118	51	16	38	9	0.90	21	11	0.65
11	80	29	6.4	34	9	0.79	20	10	0.55
12	58	22	3.5	31	8	0.67	19	10	0.51
13	48	22	2.8	28	8	0.61	18	10	0.47
14	44	16	1.9	26	8	0.55	17	9	0.43
15	45	11	1.3	24	8	0.53	17	9	0.41
16	40	9	0.99	467	649	1240	16	9	0.39
17	35	10	0.90	793	462	1210	16	8	0.36
18	31	10	0.89	743	428	963	15	8	0.34
19	28	9	0.71	272	133	102	15	8	0.33
20	25	9	0.63	152	68	28	15	8	0.33
21	23	8	0.47	107	46	13	15	8	0.32
22	21	7	0.43	86	37	8.5	14	8	0.30
23	21	7	0.39	68	31	5.6	14	7	0.28
24	21	7	0.42	62	30	5.0	14	7	0.28
25	20	7	0.37	549	322	644	17	12	0.64
26	20	8	0.40	248	122	87	16	13	0.56
27	28	9	0.72	145	66	26	16	12	0.53
28	26	9	0.61	99	44	12	15	12	0.46
29	24	8	0.50	75	35	7.1	14	11	0.41
30	25	8	0.53	---	---	---	14	10	0.38
31	23	7	0.45	---	---	---	14	10	0.36
TOTAL	2540	---	1769.71	4772	---	4408.09	744	---	34.00

WALKER CREEK BASIN

11460750 WALKER CREEK NEAR MARSHALL, CA—Continued

SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY), WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAY	MEAN	MEAN	SEDIMENT DISCHARGE (TONS/DAY)	MEAN	MEAN	SEDIMENT DISCHARGE (TONS/DAY)
	DISCHARGE (CFS)	CONCEN- TRATION (MG/L)		DISCHARGE (CFS)	CONCEN- TRATION (MG/L)	
	APRIL			MAY		
1	13	10	0.36	13	8	0.28
2	13	10	0.34	13	8	0.28
3	13	10	0.35	13	8	0.27
4	13	10	0.34	13	8	0.28
5	13	10	0.34	10	6	0.19
6	13	10	0.33	6.6	3	0.06
7	12	11	0.37	6.5	4	0.06
8	12	10	0.33	6.5	4	0.07
9	12	9	0.29	6.4	3	0.06
10	12	9	0.29	6.3	3	0.06
11	12	8	0.27	6.3	3	0.06
12	12	9	0.28	6.2	3	0.05
13	12	10	0.30	6.3	5	0.08
14	12	8	0.26	6.3	6	0.11
15	12	9	0.27	6.3	6	0.10
16	12	8	0.27	6.3	6	0.10
17	12	9	0.28	6.3	6	0.11
18	12	9	0.29	6.3	6	0.11
19	13	9	0.32	6.3	6	0.10
20	14	10	0.36	6.2	6	0.10
21	13	8	0.30	6.3	6	0.11
22	13	9	0.30	6.2	6	0.10
23	13	8	0.29	6.2	6	0.11
24	13	8	0.26	6.2	6	0.10
25	13	8	0.27	6.1	7	0.11
26	12	8	0.27	6.1	8	0.14
27	12	8	0.27	6.4	8	0.14
28	12	8	0.26	6.4	8	0.14
29	13	9	0.29	6.3	8	0.13
30	13	8	0.29	6.3	8	0.13
31	---	---	---	6.2	8	0.13
TOTAL	376	---	9.04	225.8	---	3.87
PERIOD				10651.30		6928.98

11461000 RUSSIAN RIVER NEAR UKIAH, CA

LOCATION.—Lat 39°11'44", long 123°11'38", in Yokaya Grant, [Mendocino County](#), Hydrologic Unit 18010110, on right bank, 20 ft upstream from bridge on Lake Mendocino Drive, 0.4 mi upstream from East Fork, 0.6 mi downstream from York Creek, and 3.2 mi north of Ukiah.

DRAINAGE AREA.—100 mi².

PERIOD OF RECORD.—August 1911 to September 1913, October 1952 to current year. Monthly discharge only for some periods, published in WSP 1315-B.

CHEMICAL DATA: Water years 1977–79.

BIOLOGICAL DATA: Water years 1977–79.

WATER TEMPERATURE: Water years 1965–68.

SEDIMENT DATA: Water years 1964–68, 1991–92, 1994–97.

REVISED RECORDS.—WSP 1929: Drainage area.

GAGE.—Water-stage recorder. Datum of gage is 599.22 ft above NGVD of 1929. Prior to October 1952, nonrecording gage at bridge 20 ft upstream at different datum. Oct. 1, 1952, to Nov. 8, 1971, water-stage recorder at site 0.6 mi upstream at different datum.

REMARKS.—Records good except for estimated daily discharges, which are fair. No regulation. Diversions upstream from station for irrigation of about 1,000 acres. See schematic diagram of [Russian River Basin](#).

EXTREMES FOR PERIOD OF RECORD.—Maximum discharge, 18,900 ft³/s, Dec. 21, 1955, gage height, 19.0 ft, site and datum then in use, maximum gage height, 20.87 ft, Jan. 20, 1993; no flow at times in many years.

EXTREMES FOR CURRENT YEAR.—Peak discharges greater than base discharge of 4,000 ft³/s, or maximum:

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Dec. 14	0415	4,210	10.69	Jan. 1	1030	8,580	14.75
Dec. 24	0830	4,560	11.07	Feb. 17	1230	9,100	15.17
Dec. 29	1045	7,990	14.26	Feb. 25	1200	5,310	11.87

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.1	0.23	71	3130	208	770	48	22	7.9	3.3	0.59	0.28
2	1.7	0.34	75	1620	1340	588	45	19	8.3	3.1	0.64	0.60
3	1.8	0.40	13	1050	2000	447	45	20	7.2	2.8	0.62	0.96
4	2.9	0.23	5.3	673	1040	368	43	20	6.0	2.4	1.0	0.52
5	3.7	0.16	158	472	620	302	41	18	6.4	2.3	1.0	0.12
6	3.7	0.30	947	364	463	256	40	17	6.3	2.3	1.1	0.04
7	3.7	0.47	433	376	400	220	38	19	6.0	1.9	1.0	0.03
8	2.5	7.3	108	365	286	194	37	20	5.8	1.9	1.4	0.02
9	1.8	13	105	777	215	172	36	18	6.9	2.1	1.3	0.02
10	1.7	1.6	1320	693	163	152	34	16	5.3	2.4	0.91	0.02
11	2.0	0.38	828	467	124	137	32	15	6.1	2.7	1.0	0.01
12	2.0	0.17	1080	358	94	125	31	16	6.7	2.2	1.0	0.01
13	2.3	0.03	2150	280	74	112	30	15	6.4	1.8	0.80	1.8
14	2.2	0.10	2120	285	61	99	32	13	6.1	1.6	0.81	2.3
15	2.3	1.8	727	284	599	90	36	14	5.0	1.7	1.0	2.1
16	1.5	1.3	417	215	3690	83	32	14	4.1	2.1	0.88	1.7
17	1.2	0.54	266	175	6030	78	32	14	4.3	1.8	0.50	1.8
18	0.49	0.27	167	141	2820	72	29	14	5.2	1.7	0.46	2.1
19	0.60	0.07	165	117	1650	69	34	14	4.8	e1.7	1.0	2.5
20	0.67	0.00	383	97	1230	65	84	13	4.6	e1.4	0.67	2.8
21	0.48	0.00	219	82	952	61	87	13	4.8	e1.2	e0.44	2.6
22	0.47	0.00	185	71	838	59	69	13	4.4	1.2	e0.52	2.4
23	0.44	0.00	304	66	588	55	48	13	3.9	1.0	e0.60	2.3
24	0.43	0.00	2070	92	580	51	41	12	3.7	0.92	1.00	2.2
25	0.36	0.00	1150	73	2670	90	36	11	4.3	1.2	1.4	2.0
26	0.25	0.00	653	66	2480	102	33	10	3.7	0.98	1.2	2.0
27	0.23	0.00	450	616	1580	155	30	10	3.6	0.43	0.82	2.0
28	0.16	0.00	376	464	995	96	28	11	3.5	0.55	1.1	2.1
29	0.14	0.86	3930	274	683	73	26	9.9	3.1	0.43	1.2	2.1
30	0.25	2.7	1500	262	---	62	25	10	3.6	0.54	1.1	2.1
31	0.31	---	776	217	---	52	---	9.5	---	0.54	0.82	---
TOTAL	44.38	32.25	23151.3	14222	34473	5255	1202	453.4	158.0	52.19	27.88	41.53
MEAN	1.43	1.07	747	459	1189	170	40.1	14.6	5.27	1.68	0.90	1.38
MAX	3.7	13	3930	3130	6030	770	87	22	8.3	3.3	1.4	2.8
MIN	0.14	0.00	5.3	66	61	51	25	9.5	3.1	0.43	0.44	0.01
AC-FT	88	64	45920	28210	68380	10420	2380	899	313	104	55	82

e Estimated.

RUSSIAN RIVER BASIN

11461000 RUSSIAN RIVER NEAR UKIAH, CA—Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1912 - 2004, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	7.93	108	362	558	513	349	158	44.8	11.3	2.36	0.63	0.63
MAX	147	682	1663	1986	1975	1436	770	215	57.4	10.8	3.75	2.70
(WY)	1963	1974	1965	1995	1958	1983	1963	2003	1993	1983	1998	1983
MIN	0.00	0.15	1.77	3.82	14.3	20.0	4.33	3.15	0.22	0.00	0.00	0.00
(WY)	1953	1953	1960	1991	1977	1988	1977	1977	1977	1977	1977	1970

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR	FOR 2004 WATER YEAR	WATER YEARS 1912 - 2004
ANNUAL TOTAL	78249.58	79112.93	
ANNUAL MEAN	214	216	175
HIGHEST ANNUAL MEAN			420 1983
LOWEST ANNUAL MEAN			5.76 1977
HIGHEST DAILY MEAN	3930 Dec 29	6030 Feb 17	13300 Dec 22 1964
LOWEST DAILY MEAN	0.00 Nov 20	0.00 Nov 20	0.00 Oct 1 1911
ANNUAL SEVEN-DAY MINIMUM	0.00 Nov 20	0.00 Nov 20	0.00 Oct 1 1911
MAXIMUM PEAK FLOW		9100 Feb 17	18900 Dec 21 1955
MAXIMUM PEAK STAGE		15.17 Feb 17	20.87 Jan 20 1993
ANNUAL RUNOFF (AC-FT)	155200	156900	126700
10 PERCENT EXCEEDS	577	617	423
50 PERCENT EXCEEDS	24	8.9	13
90 PERCENT EXCEEDS	0.40	0.39	0.13

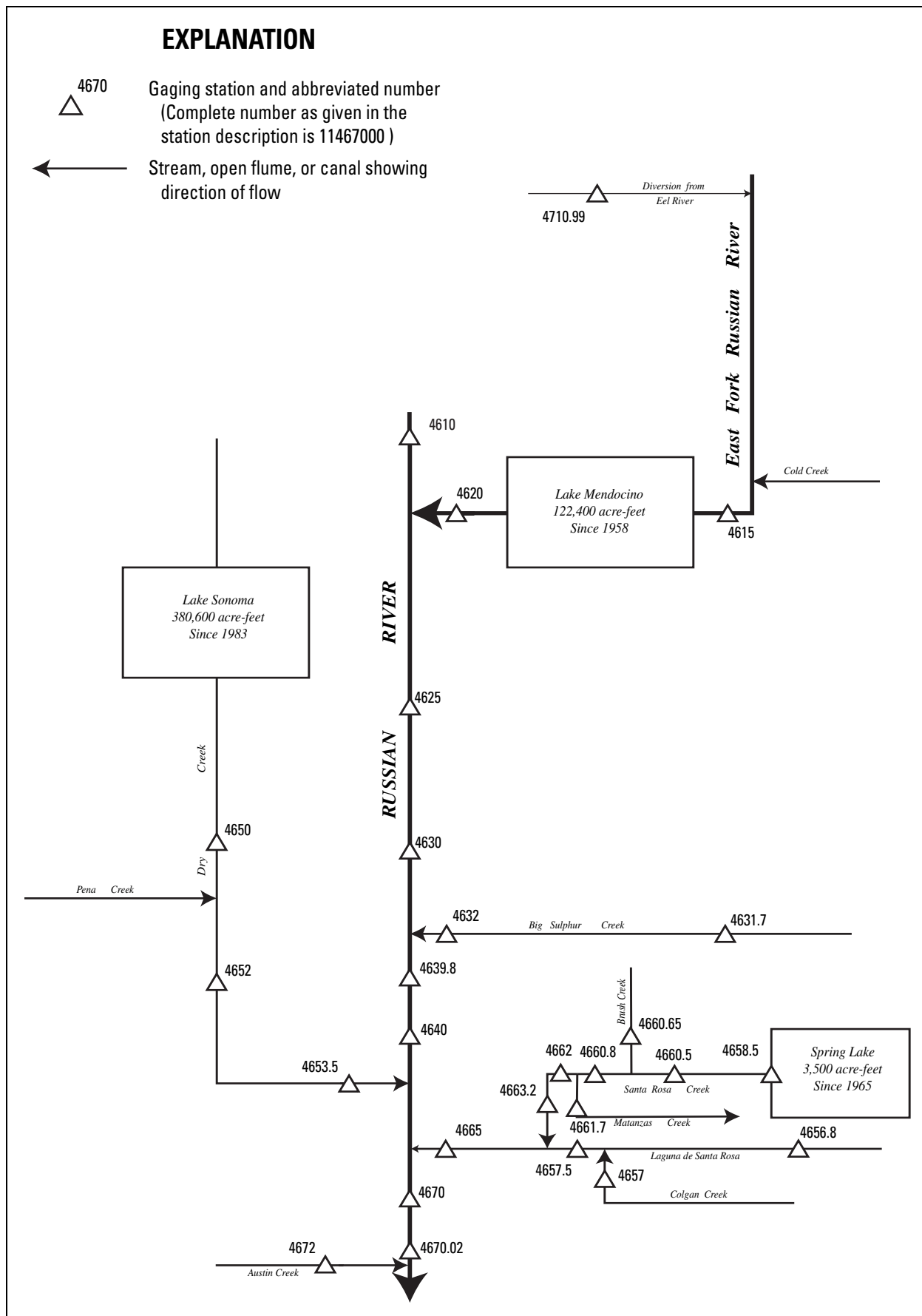


Figure 22. Diversions and storage in Russian River Basin.

11461500 EAST FORK RUSSIAN RIVER NEAR CALPELLA, CA

LOCATION.—Lat 39°14'48", long 123°07'45", in NW 1/4 NW 1/4 sec.18, T.16 N., R.11 W., [Mendocino County](#), Hydrologic Unit 18010110, on left bank, 0.1 mi downstream from Cold Creek, and 3.9 mi east of Calpella.

DRAINAGE AREA.—92.2 mi².

PERIOD OF RECORD.—October 1941 to current year. Monthly discharge only for some periods, published in WSP 1315-B.

CHEMICAL ANALYSES: Water years 1951–58, 1973–82.

WATER TEMPERATURE: Water years 1967–79.

TURBIDITY: Water years 1964–71.

SEDIMENT DATA: Water years 1964, 1967–68.

GAGE.—Water-stage recorder. Datum of gage is 787.87 ft above NGVD of 1929. Prior to May 28, 1957, at site 1.3 mi downstream at different datum. May 28, 1957, to Apr. 5, 1966, at site 0.4 mi downstream at same datum.

REMARKS.—Records good. Flow greatly affected by diversion from Eel River through Potter Valley Powerplant Intake and Tailrace (stations 11471000 and 11471099, respectively). Diversion for irrigation of about 8,000 acres upstream from station. See schematic diagram of [Russian River Basin](#).

EXTREMES FOR PERIOD OF RECORD.—Maximum discharge, 18,700 ft³/s, Dec. 22, 1964, gage height, 20.21 ft, site then in use, maximum gage height, 22.89 ft, Jan. 20, 1993; minimum daily, 1.7 ft³/s, July 23, 1990.

EXTREMES FOR CURRENT YEAR.—Peak discharges greater than base discharge of 3,300 ft³/s, or maximum:

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Dec. 14	0400	3,520	13.95	Jan. 1	1100	5,620	17.11
Dec. 24	0830	5,160	16.45	Feb. 16	1600	6,290	18.02
Dec. 29	1015	7,850	20.04	Feb. 25	0800	5,390	16.79

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	261	81	317	2400	399	870	199	138	114	83	89	90
2	267	83	267	1220	1470	707	198	142	120	83	93	89
3	279	84	224	834	1230	622	213	146	110	87	96	92
4	271	84	307	630	729	579	224	148	100	91	100	110
5	267	84	396	540	576	540	224	142	107	87	113	108
6	239	82	793	485	541	498	227	139	114	83	98	96
7	185	83	503	530	523	471	221	142	108	68	83	77
8	155	111	374	500	467	449	226	141	116	71	93	82
9	149	146	396	862	438	426	224	142	103	76	97	101
10	170	121	1150	699	418	407	220	143	98	71	92	100
11	181	114	715	552	405	391	220	132	106	73	85	101
12	180	106	828	491	391	382	221	144	100	73	90	89
13	172	136	1230	453	382	372	219	143	112	79	105	98
14	175	144	1510	455	378	364	223	155	113	75	93	94
15	170	195	527	439	885	345	229	163	99	84	75	84
16	176	189	418	410	3340	327	220	158	100	66	89	88
17	183	229	380	392	3950	319	221	167	103	56	95	88
18	172	260	358	379	1560	315	200	157	102	51	86	100
19	126	261	471	370	699	310	221	143	110	55	82	124
20	114	254	674	363	737	306	242	144	117	54	87	132
21	76	221	522	353	623	283	225	144	116	60	89	113
22	67	180	412	345	569	274	212	152	113	65	96	110
23	67	175	642	345	532	270	215	163	101	118	101	96
24	66	176	2170	366	720	265	202	145	116	93	104	94
25	61	177	917	345	2930	289	185	149	101	87	104	96
26	63	172	562	342	2440	343	185	150	99	86	105	96
27	64	161	445	599	1100	259	177	142	102	85	111	94
28	54	152	419	490	926	245	166	145	102	87	91	107
29	74	193	4080	417	783	239	153	137	106	96	82	110
30	71	205	988	423	---	235	146	133	92	99	94	108
31	80	---	704	395	---	211	---	127	---	96	99	---
TOTAL	4635	4659	23699	17424	30141	11913	6258	4516	3200	2438	2917	2967
MEAN	150	155	764	562	1039	384	209	146	107	78.6	94.1	98.9
MAX	279	261	4080	2400	3950	870	242	167	120	118	113	132
MIN	54	81	224	342	378	211	146	127	92	51	75	77
AC-FT	9190	9240	47010	34560	59780	23630	12410	8960	6350	4840	5790	5890

11461500 EAST FORK RUSSIAN RIVER NEAR CALPELLA, CA—Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1942 - 2004, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	221	282	481	626	627	514	344	230	158	133	134	183
MAX	352	738	1476	1720	1815	1611	847	429	363	275	276	298
(WY)	1963	1982	1965	1970	1998	1983	1982	2003	1998	1967	1952	1967
MIN	4.89	74.0	30.2	42.2	21.5	42.7	11.9	23.5	15.3	8.25	19.0	23.9
(WY)	1960	1978	1960	1991	1977	1977	1977	1977	1977	1977	1977	1977

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1942 - 2004	
ANNUAL TOTAL	122848		114767			
ANNUAL MEAN	337		314		326	
HIGHEST ANNUAL MEAN					586	
LOWEST ANNUAL MEAN					76.8	
HIGHEST DAILY MEAN	4080	Dec 29	4080	Dec 29	12500	Dec 22 1964
LOWEST DAILY MEAN	54	Oct 28	51	Jul 18	1.7	Jul 23 1990
ANNUAL SEVEN-DAY MINIMUM	63	Oct 22	58	Jul 16	3.2	Jul 11 1977
MAXIMUM PEAK FLOW			7850	Dec 29	18700	Dec 22 1964
MAXIMUM PEAK STAGE			20.04	Dec 29	22.89	Jan 20 1993
ANNUAL RUNOFF (AC-FT)	243700		227600		236400	
10 PERCENT EXCEEDS	634		625		555	
50 PERCENT EXCEEDS	248		162		245	
90 PERCENT EXCEEDS	102		83		76	

11462000 EAST FORK RUSSIAN RIVER NEAR UKIAH, CA

LOCATION.—Lat 39°11'51", long 123°11'11", in Yokaya Grant, [Mendocino County](#), Hydrologic Unit 18010110, on right bank of outlet channel, 500 ft downstream from Coyote Dam, 1,300 ft upstream from mouth, and 3.2 mi northeast of Ukiah.

DRAINAGE AREA.—105 mi².

PERIOD OF RECORD.—August 1911 to September 1913, October 1951 to June 1956, October 1957 to current year.

CHEMICAL DATA: Water years 1953–55, 1973–82.

BIOLOGICAL DATA: Water years 1977–78.

WATER TEMPERATURE: Water years 1953–55, 1965–68, 1973–1994.

SEDIMENT DATA: Water years 1953–55, 1964–68.

GAGE.—Water-stage recorder and concrete control. Datum of gage is 614.41 ft above NGVD of 1929. Prior to October 1951, nonrecording gage at site 0.5 mi upstream at different datum. October 1951 to June 1956, water-stage recorder at site 1.0 mi upstream at different datum.

REMARKS.—Records good. Flow affected by diversion from Eel River through Potter Valley Powerplant Intake (station 11471000) and since November 1958 by storage in Lake Mendocino, capacity, 122,400 acre-ft, 500 ft upstream. Diversions upstream from station for irrigation of about 8,000 acres and about 10 ft³/s at times, through a fish taking station which bypasses the gage. See schematic diagram of [Russian River Basin](#).

EXTREMES FOR PERIOD OF RECORD.—Prior to regulation by Lake Mendocino, maximum discharge, 13,300 ft³/s, Dec. 21, 1955, gage height, 16.86 ft, site and datum then in use, from rating curve extended above 6,300 ft³/s, on basis of maximum flow at station upstream which was defined to 8,600 ft³/s; no flow Aug. 13–15, 1913. Maximum discharge since regulation (1959), 7,350 ft³/s, Jan. 24, 1970, gage height, 10.84 ft; minimum daily, 0.02 ft³/s, Apr. 17, 1973.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	255	254	202	117	218	1490	187	175	221	262	205	260
2	256	250	167	2350	219	767	187	176	219	261	196	261
3	257	253	124	4050	1090	121	184	176	230	261	187	260
4	257	252	124	2280	1650	79	184	178	243	261	187	249
5	257	250	125	453	1280	71	183	177	245	262	187	239
6	240	232	126	338	527	68	184	174	245	254	187	238
7	226	204	126	299	221	67	184	173	244	245	187	238
8	227	202	125	302	222	67	185	175	241	244	187	226
9	227	198	125	301	400	82	185	175	241	244	188	217
10	226	196	106	301	644	103	185	175	242	246	189	216
11	226	199	89	301	712	102	185	176	242	245	200	215
12	226	197	90	300	413	123	185	180	242	247	208	214
13	226	195	90	302	223	142	185	180	239	247	208	214
14	227	196	91	954	224	141	184	181	240	246	215	214
15	218	195	90	2000	225	140	181	184	241	247	219	169
16	211	194	90	951	228	293	181	184	241	253	220	236
17	211	195	89	157	229	146	181	183	241	264	219	235
18	217	196	89	157	704	148	180	184	242	271	220	241
19	225	196	89	157	2840	149	180	198	243	273	236	247
20	224	197	90	224	3210	150	182	223	244	274	249	247
21	227	198	90	645	2490	151	182	223	244	274	247	247
22	228	197	1070	508	1740	152	182	222	244	273	247	239
23	227	198	2060	195	578	153	180	195	245	272	248	237
24	229	200	1150	196	242	154	179	180	244	272	247	236
25	228	200	280	196	200	154	179	193	250	272	244	236
26	239	200	1120	641	171	154	179	217	261	271	243	236
27	252	204	2050	1050	1910	154	179	221	261	271	241	229
28	251	204	893	1130	3160	153	179	218	261	245	251	218
29	254	205	143	528	1880	152	178	219	262	205	263	219
30	252	208	1820	158	---	152	176	220	262	204	262	218
31	253	---	1610	216	---	164	---	220	---	205	261	---
TOTAL	7279	6265	14533	21757	27850	6142	5465	5955	7320	7871	6848	6951
MEAN	235	209	469	702	960	198	182	192	244	254	221	232
MAX	257	254	2060	4050	3210	1490	187	223	262	274	263	261
MIN	211	194	89	117	171	67	176	173	219	204	187	169
AC-FT	14440	12430	28830	43160	55240	12180	10840	11810	14520	15610	13580	13790

11462500 RUSSIAN RIVER NEAR HOPLAND, CA

LOCATION.—Lat 39°01'36", long 123°07'46", in Rancho de Sanel Grant, [Mendocino County](#), Hydrologic Unit 18010110, on right bank, at abandoned highway bridge, 0.2 mi downstream from McNab Creek, 4 mi north of Hopland, and 15.2 mi downstream from Coyote Valley Dam on the East Fork Russian River.

DRAINAGE AREA.—362 mi².

WATER-DISCHARGE RECORDS

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

REVISED RECORDS.—WSP 1041: Drainage area.

GAGE.—Water-stage recorder and crest-stage gage. Datum of gage is 497.61 ft above NGVD of 1929. Prior to Sept. 9, 1943, nonrecording gage at same site and datum.

REMARKS.—Records good. Diversions for irrigation of about 11,800 acres upstream from station. Flow also affected by diversion into basin (see [REMARKS](#) for East Fork Russian River stations) and since November 1958 by storage in Lake Mendocino, capacity, 122,400 acre-ft, 15.2 mi upstream. See schematic diagram of [Russian River Basin](#).

EXTREMES FOR PERIOD OF RECORD.—Maximum discharge, 45,000 ft³/s, Dec. 22, 1955, gage height, 27.00 ft; minimum daily, 9.1 ft³/s, Apr. 20, 1977.

EXTREMES OUTSIDE PERIOD OF RECORD.—Flood of December 1937 reached a stage of 30.0 ft, from floodmarks.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	215	214	368	6250	636	3390	292	223	231	250	172	230
2	223	214	458	5120	2350	2500	291	219	222	250	173	221
3	226	219	243	6560	4880	1290	286	218	215	251	159	222
4	212	215	198	4690	4330	1020	283	217	233	257	156	225
5	218	217	337	1590	2920	883	277	213	240	253	153	215
6	213	215	1120	1260	1650	764	273	210	253	236	153	215
7	200	187	911	1140	1100	682	266	210	257	220	150	204
8	196	224	450	1070	913	604	263	218	261	218	159	199
9	195	242	333	1580	914	549	255	216	258	220	156	187
10	195	207	1900	1610	1060	523	252	210	242	212	138	180
11	194	196	1510	1250	1100	482	246	202	247	217	141	181
12	203	193	964	1080	907	457	242	207	232	220	160	190
13	202	193	4070	988	629	453	237	212	244	216	165	192
14	201	198	4320	1200	591	435	235	206	261	222	175	180
15	190	201	1150	2300	985	415	243	213	251	224	194	155
16	176	205	672	1760	6650	493	235	214	249	219	191	178
17	168	203	523	757	15400	389	239	211	241	221	185	164
18	168	200	432	667	8950	367	231	209	232	240	178	176
19	191	200	416	617	6420	348	236	204	233	243	184	201
20	184	197	688	600	6570	338	272	239	242	236	199	207
21	168	197	539	777	5100	327	279	236	247	234	203	203
22	179	195	871	858	4020	317	284	236	246	236	208	205
23	186	196	2260	543	1930	307	258	227	242	235	214	204
24	186	195	5910	575	1490	297	247	200	238	240	215	196
25	187	195	2540	533	6970	336	241	204	236	236	215	186
26	194	194	1750	687	7290	377	234	227	239	243	209	194
27	207	194	2630	1330	5710	391	228	216	247	238	197	195
28	200	195	1750	1520	6690	352	225	224	253	231	195	184
29	200	219	7840	1080	4500	319	225	221	251	180	223	182
30	194	233	5240	645	---	299	224	233	248	172	232	171
31	211	---	4090	649	---	288	---	232	---	167	231	---
TOTAL	6082	6153	56483	51286	112655	19992	7599	6727	7291	7037	5683	5842
MEAN	196	205	1822	1654	3885	645	253	217	243	227	183	195
MAX	226	242	7840	6560	15400	3390	292	239	261	257	232	230
MIN	168	187	198	533	591	288	224	200	215	167	138	155
AC-FT	12060	12200	112000	101700	223500	39650	15070	13340	14460	13960	11270	11590

11462500 RUSSIAN RIVER NEAR HOPLAND, CA—Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1940 - 2004, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	228	412	1172	1816	1820	1239	703	332	216	199	206	208
MAX	555	1656	4849	5856	6799	5361	2572	1013	490	326	369	383
(WY)	1958	1984	1965	1970	1958	1983	1982	2003	1998	1961	1961	1974
MIN	35.1	96.5	87.6	37.2	28.8	57.1	44.1	77.0	59.6	79.7	105	78.9
(WY)	1978	1978	1991	1977	1977	1977	1977	1977	1949	1948	1950	1977

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1940 - 2004	
ANNUAL TOTAL	280051		292830			
ANNUAL MEAN	767		800		708	
HIGHEST ANNUAL MEAN					1587	
LOWEST ANNUAL MEAN					94.0	
HIGHEST DAILY MEAN	8520	Apr 29	15400	Feb 17	33800	Dec 22 1955
LOWEST DAILY MEAN	168	Oct 17	138	Aug 10	9.1	Apr 20 1977
ANNUAL SEVEN-DAY MINIMUM	176	Oct 16	150	Aug 5	13	Apr 15 1977
MAXIMUM PEAK FLOW			19800		45000	
MAXIMUM PEAK STAGE			18.71		27.00	
ANNUAL RUNOFF (AC-FT)	555500		580800		512800	
10 PERCENT EXCEEDS	1940		1750		1560	
50 PERCENT EXCEEDS	296		236		251	
90 PERCENT EXCEEDS	195		186		138	

11462500 RUSSIAN RIVER NEAR HOPLAND, CA—Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.—Water years 1951–79, 1990–96, January 2002 to current year.

CHEMICAL DATA: Water years 1951–66.

DISSOLVED OXYGEN: January 2002 to current year.

pH: January 2002 to current year.

SPECIFIC CONDUCTANCE: January 2002 to current year.

WATER TEMPERATURE: Water years 1965–79, January 2002 to current year.

SEDIMENT DATA: Water years 1990–96.

TURBIDITY: January 2002 to current year.

PERIOD OF DAILY RECORD.—

DISSOLVED OXYGEN: January 2002 to current year.

pH: January 2002 to current year.

SPECIFIC CONDUCTANCE: January 2002 to current year.

WATER TEMPERATURE: September 1965 to March 1979, January 2002 to current year.

TURBIDITY: January 2002 to current year.

INSTRUMENTATION.—Water-quality monitor since January 2002. Electronic data logger with 15 minute interval.

REMARKS.—Dissolved oxygen records are rated excellent except for Oct. 23 to Nov. 4, Nov. 20 to Dec. 2, Dec. 18, 19, Jan. 2–29, May 26 to Jun. 9, Jun. 25 to Jul. 20, which are rated good; Feb. 20 to Mar. 3, Apr. 28 to May 10, Sept. 21–30, which are rated fair; and Oct. 10–23, Mar. 3–26, Jul. 20 to Aug. 3, Sept. 17–21, which are rated poor. pH records are rated excellent except for Jan. 29 to Mar. 3, Apr. 8–26, which are rated good; and Nov. 6–20, which are rated poor. Specific conductance records are rated excellent except for Oct. 30 to Nov. 4, Dec. 19 to Jan. 2, which are rated good. Temperature records are rated excellent. Turbidity records are rated excellent except for Nov. 4, Apr. 17 to May 26, which are rated good; Nov. 20–26, Dec. 2–26, Apr. 8–16, Sept. 17–19, which are rated fair; and Oct. 1 to Nov. 3, Nov. 6–19, Nov. 27 to Dec. 1, Jan. 7 to Feb. 20, Jun. 9 to July 20, Sept 28–30, which are rated poor.

EXTREMES FOR PERIOD OF DAILY RECORD.—

DISSOLVED OXYGEN: Maximum recorded, 16.3 mg/L, May 18, 2002; minimum recorded, 7.3 mg/L, Aug. 31, 2004.

pH: Maximum recorded, 8.7 standard units, May 18, 2002; minimum recorded, 7.0 standard units, May 4–10, 2004.

SPECIFIC CONDUCTANCE: Maximum recorded, 251 microsiemens, Nov. 11, 2002; minimum recorded, 67 microsiemens, Dec. 16, 2002.

WATER TEMPERATURE: Maximum recorded, 27.0°C, Sept. 5, 6, 1977; minimum recorded, 5.0°C, Feb. 2, Dec. 16, 1972, Jan. 31 to Feb. 2, 1975, Dec. 30, 31, 1978.

TURBIDITY: Maximum recorded, >1,200 FNU, Dec. 29, Jan. 1, Feb. 16, 17, 25, 2004; minimum recorded 0.1 FNU, Jul. 31, Aug. 1–3, 2004.

EXTREME FOR CURRENT YEAR.—

DISSOLVED OXYGEN: Maximum recorded, 14.3 mg/L, Apr. 6; minimum recorded, 7.3 mg/L, Aug. 31.

pH: Maximum recorded, 8.3 standard units, Aug. 3–5, 31, Sept. 1; minimum recorded, 7.0 standard units, May 4–10.

SPECIFIC CONDUCTANCE: Maximum recorded, 232 microsiemens, Mar. 15, 16; minimum recorded, 70 microsiemens, Jan. 1, Feb. 17.

WATER TEMPERATURE: Maximum recorded, 22.1°C, Sept. 12, 16; minimum recorded, 7.5°C, Dec. 29.

TURBIDITY: Maximum recorded, >1,200 FNU, Dec. 29, Jan. 1, Feb. 16, 17, 25; minimum recorded 0.6 FNU, Oct. 7–9.

> Actual value is known to be greater than value shown.

DISSOLVED OXYGEN, WATER, UNFILTERED, MILLIGRAMS PER LITER, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	9.8	7.9	11.3	9.2	9.9	9.4	10.9	9.9	10.8	10.6	12.4	12.2
2	9.7	7.9	11.1	9.3	10.2	9.4	11.6	10.8	11.5	10.7	12.7	11.4
3	9.8	8.0	11.4	9.3	10.0	9.3	11.8	11.5	11.6	11.4	12.1	11.0
4	9.7	7.8	---	---	9.7	9.2	11.8	10.7	11.7	11.5	11.2	10.7
5	10.0	8.0	10.0	8.6	9.8	9.0	10.9	10.5	11.9	11.3	11.2	10.6
6	10.2	7.9	9.6	8.6	10.0	9.3	10.6	10.2	11.6	10.8	11.0	10.4
7	10.0	7.9	9.6	8.5	10.0	9.8	10.5	10.2	11.4	10.9	10.9	10.2
8	9.9	7.9	10.0	8.4	10.2	9.8	10.4	10.2	11.4	11.0	10.6	10.0
9	9.8	7.9	---	---	10.0	9.8	11.1	10.4	11.6	11.0	10.4	9.8
10	9.6	8.2	10.1	8.8	11.0	9.9	11.1	10.2	11.8	11.3	10.4	9.8
11	9.9	8.3	10.3	8.9	11.0	10.6	10.4	10.2	11.9	11.5	10.4	9.8
12	10.1	8.4	---	---	11.0	10.4	10.4	10.2	11.8	10.8	10.4	9.7
13	10.3	8.6	---	---	11.0	10.4	10.2	9.6	11.1	10.8	10.4	9.7
14	10.3	8.6	---	---	11.0	10.4	11.0	9.7	11.1	10.8	10.4	9.7
15	10.5	8.7	---	---	11.0	10.6	11.3	11.0	11.7	10.8	10.5	9.5
16	---	---	---	---	10.7	10.4	11.3	9.8	11.9	11.6	11.0	9.5
17	---	---	---	---	10.6	10.3	10.0	9.8	11.9	11.2	10.4	9.3
18	10.4	8.7	---	---	10.5	10.0	10.2	9.9	13.6	11.2	10.4	9.2
19	10.6	8.7	---	---	10.0	9.7	10.3	10.1	12.2	11.6	10.7	9.2
20	10.3	8.5	---	---	10.4	9.9	10.8	10.2	12.3	11.7	10.9	9.2
21	10.2	8.4	10.1	8.5	10.0	9.8	11.7	10.8	12.0	11.7	11.0	9.1
22	10.4	8.4	10.4	8.9	10.6	9.7	11.9	10.9	12.0	11.0	11.0	8.9
23	10.1	8.3	10.6	9.1	10.6	10.5	11.2	10.9	11.3	10.6	11.3	8.8
24	10.2	8.2	10.7	9.1	10.5	10.3	11.0	10.8	11.3	10.6	11.5	9.0
25	10.4	8.3	11.0	9.2	10.6	10.3	11.5	10.9	12.0	11.0	---	---
26	10.4	8.5	10.8	9.0	11.0	10.4	11.9	11.2	12.2	11.9	---	---
27	10.4	8.5	11.4	9.3	11.2	11.0	11.9	11.7	12.8	12.1	11.1	9.4
28	10.6	8.5	10.3	9.3	11.2	10.1	11.9	11.5	13.0	12.5	11.2	9.2
29	10.6	8.6	9.9	9.1	11.4	10.1	11.6	10.2	12.9	12.2	11.4	9.1
30	11.3	8.7	10.0	9.1	11.1	10.6	10.4	10.1	---	---	11.6	9.0
31	11.2	8.9	---	---	11.1	9.9	10.9	10.4	---	---	12.2	9.2
MONTH	---	---	---	---	11.4	9.0	11.9	9.6	13.6	10.6	---	---

11462500 RUSSIAN RIVER NEAR HOPLAND, CA—Continued

DISSOLVED OXYGEN, WATER, UNFILTERED, MILLIGRAMS PER LITER, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	12.7	9.4	11.1	8.8	11.6	8.7	11.1	8.9	11.2	8.1	9.8	7.7
2	13.5	9.3	11.1	8.8	11.5	8.7	11.2	8.9	11.4	8.1	9.9	7.9
3	13.8	9.2	11.2	8.7	11.5	8.6	11.0	8.8	10.9	8.2	9.8	8.0
4	13.9	9.1	11.6	8.7	11.6	8.8	11.1	8.8	10.8	7.9	9.8	7.8
5	12.9	9.2	11.9	9.0	11.6	8.9	10.8	8.8	10.8	7.9	9.9	7.8
6	14.3	9.6	12.1	9.2	11.6	8.9	10.7	8.6	10.7	8.0	9.9	7.8
7	---	---	11.9	9.5	11.6	8.8	10.7	8.5	10.5	7.9	9.8	7.8
8	---	---	12.4	9.7	11.3	8.9	10.7	8.5	10.3	7.7	9.8	7.7
9	12.6	8.7	12.6	9.6	11.2	9.2	10.8	8.6	10.2	7.7	9.8	7.8
10	12.6	8.6	12.6	9.5	11.2	8.9	10.8	8.7	10.3	7.8	9.8	7.7
11	12.8	8.6	12.4	9.0	11.2	8.9	10.8	8.6	10.3	7.7	---	---
12	13.1	8.7	12.6	9.1	11.2	8.8	10.8	8.6	10.3	7.8	---	---
13	13.1	8.8	12.5	8.9	11.2	8.8	10.7	8.5	10.2	7.8	---	---
14	12.3	8.9	12.5	8.8	11.2	8.8	10.8	8.5	10.3	7.8	---	---
15	12.2	9.1	12.5	8.8	11.1	8.6	10.8	8.6	10.3	7.9	---	---
16	11.9	9.1	12.5	8.8	11.1	8.6	10.7	8.5	10.3	7.9	---	---
17	12.7	9.0	12.2	8.8	11.2	8.5	10.6	8.4	10.2	7.8	---	---
18	11.6	8.9	12.4	9.2	11.2	8.7	10.6	8.4	11.1	7.7	10.9	8.2
19	11.2	9.2	12.4	8.9	11.1	8.8	10.6	8.4	11.0	7.6	10.3	8.3
20	11.5	9.2	12.4	8.9	11.1	8.8	10.6	8.5	10.9	7.9	10.4	8.2
21	11.8	8.8	12.2	8.9	11.1	8.8	10.5	8.6	10.8	7.7	9.9	8.0
22	12.0	9.0	12.2	8.9	11.0	8.7	10.6	8.5	10.9	7.7	9.9	7.8
23	11.8	8.8	11.9	8.9	11.0	8.8	10.6	8.4	11.1	7.9	10.0	7.8
24	11.9	8.6	11.6	8.4	11.2	8.9	10.6	8.5	11.7	7.7	9.9	7.8
25	11.3	8.5	11.9	8.7	11.3	8.9	10.7	8.4	11.7	7.8	10.1	7.8
26	11.4	8.6	11.6	8.7	10.9	8.8	10.7	8.3	11.6	7.8	10.0	7.8
27	10.8	8.6	11.5	8.6	11.0	8.7	10.7	8.4	11.4	7.7	10.1	7.8
28	10.7	8.5	11.6	9.0	10.9	8.8	10.8	8.4	11.5	7.7	10.1	7.9
29	10.8	8.5	11.8	8.9	10.9	8.7	10.9	8.3	10.6	7.6	10.1	7.9
30	10.9	8.7	11.7	8.9	11.1	8.7	11.0	8.2	9.4	7.6	10.1	8.0
31	---	---	11.7	8.8	---	---	11.0	8.1	9.5	7.3	---	---
MONTH	---	---	12.6	8.4	11.6	8.5	11.2	8.1	11.7	7.3	---	---

11462500 RUSSIAN RIVER NEAR HOPLAND, CA—Continued

PH, WATER, UNFILTERED, FIELD, STANDARD UNITS, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	7.9	7.7	7.9	7.7	7.8	7.6	7.6	7.4	7.6	7.4	7.6	7.4
2	7.9	7.7	8.0	7.7	7.8	7.7	7.6	7.2	7.7	7.4	7.5	7.3
3	7.9	7.7	7.9	7.7	7.7	7.6	7.7	7.6	7.7	7.6	7.4	7.3
4	7.9	7.7	8.0	7.7	7.7	7.6	7.7	7.3	7.7	7.7	7.4	7.4
5	7.9	7.7	7.9	7.6	7.8	7.6	7.3	7.3	7.7	7.6	7.4	7.4
6	7.9	7.7	7.8	7.6	7.8	7.6	7.3	7.3	7.6	7.3	7.4	7.4
7	7.9	7.7	7.9	7.6	7.7	7.6	7.3	7.3	7.3	7.3	7.4	7.4
8	7.9	7.7	---	---	7.7	7.6	7.4	7.3	7.3	7.3	7.4	7.4
9	7.9	7.7	---	---	7.7	7.6	7.5	7.3	7.4	7.3	7.5	7.4
10	7.9	7.7	---	---	7.8	7.6	7.5	7.4	7.5	7.4	7.5	7.4
11	7.9	7.7	---	---	7.7	7.6	7.4	7.4	7.4	7.4	7.5	7.4
12	7.9	7.7	---	---	7.8	7.6	7.4	7.3	7.4	7.2	7.5	7.4
13	7.9	7.7	---	---	7.7	7.6	7.5	7.3	7.2	7.2	7.5	7.5
14	8.0	7.7	---	---	7.8	7.6	7.8	7.5	7.2	7.2	7.5	7.5
15	8.0	7.7	---	---	7.7	7.6	7.8	7.8	7.5	7.2	7.5	7.5
16	---	---	---	---	7.6	7.6	7.8	7.4	7.4	7.3	7.7	7.5
17	---	---	---	---	7.6	7.6	7.4	7.4	7.4	7.1	7.5	7.4
18	8.0	7.7	---	---	7.6	7.6	7.4	7.4	7.2	7.1	7.5	7.4
19	8.0	7.7	---	---	7.6	7.5	7.5	7.4	7.3	7.2	7.6	7.5
20	8.0	7.7	---	---	7.7	7.6	7.5	7.4	7.5	7.3	7.6	7.5
21	8.0	7.7	7.9	7.7	7.6	7.5	7.7	7.5	7.4	7.4	7.6	7.5
22	8.0	7.7	7.9	7.7	7.9	7.5	7.7	7.4	7.5	7.3	7.6	7.5
23	8.0	7.7	7.9	7.7	7.9	7.8	7.5	7.4	7.3	7.2	7.7	7.5
24	8.0	7.8	7.9	7.7	7.9	7.6	7.5	7.5	7.3	7.2	7.7	7.5
25	8.0	7.8	7.9	7.7	7.6	7.6	7.5	7.5	7.4	7.2	7.6	7.5
26	8.0	7.7	7.9	7.7	7.8	7.6	7.7	7.5	7.5	7.4	7.6	7.5
27	8.0	7.7	7.9	7.7	7.8	7.8	7.8	7.7	7.6	7.3	7.8	7.5
28	8.0	7.7	7.8	7.7	7.8	7.5	7.8	7.7	7.6	7.5	7.7	7.6
29	8.0	7.7	7.8	7.6	7.7	7.5	7.7	7.5	7.6	7.4	7.7	7.5
30	8.0	7.7	7.8	7.6	7.8	7.5	7.6	7.5	---	---	7.8	7.5
31	8.0	7.7	---	---	7.8	7.5	7.6	7.5	---	---	7.8	7.5
MONTH	---	---	---	---	7.9	7.5	7.8	7.2	7.7	7.1	7.8	7.3
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	7.8	7.5	7.4	7.1	8.0	7.6	7.9	7.5	8.2	7.6	8.3	7.9
2	7.9	7.5	7.4	7.1	8.1	7.6	7.9	7.5	8.2	7.6	8.2	7.8
3	7.9	7.5	7.4	7.1	8.1	7.6	7.8	7.5	8.3	7.6	8.2	7.8
4	7.9	7.5	7.5	7.0	8.1	7.6	7.8	7.5	8.3	7.7	8.2	7.8
5	7.8	7.5	7.5	7.0	8.0	7.6	7.8	7.5	8.3	7.7	8.2	7.8
6	8.0	7.5	7.5	7.0	8.0	7.6	7.8	7.5	8.2	7.7	8.1	7.7
7	---	---	7.4	7.0	8.0	7.6	7.8	7.5	8.2	7.7	8.1	7.7
8	---	---	7.5	7.0	7.8	7.6	7.9	7.5	8.2	7.7	8.1	7.7
9	8.0	7.5	7.6	7.0	8.0	7.6	7.9	7.5	8.2	7.7	8.1	7.7
10	8.0	7.5	7.8	7.0	8.0	7.6	7.9	7.4	8.1	7.6	8.0	7.6
11	8.0	7.4	7.9	7.4	7.9	7.6	7.9	7.4	8.2	7.6	8.0	7.6
12	8.0	7.4	7.9	7.4	7.9	7.6	7.9	7.4	8.1	7.7	8.0	7.6
13	8.0	7.4	8.0	7.4	7.9	7.6	7.9	7.4	8.2	7.7	8.1	7.7
14	7.8	7.4	8.0	7.4	8.0	7.6	7.9	7.4	8.2	7.7	8.0	7.6
15	7.7	7.3	8.0	7.4	8.0	7.6	8.0	7.4	8.1	7.7	8.0	7.6
16	7.6	7.3	8.0	7.4	7.9	7.5	8.0	7.4	8.1	7.7	8.0	7.6
17	7.8	7.3	7.8	7.4	8.0	7.6	8.0	7.4	8.1	7.7	8.1	7.6
18	7.6	7.3	8.0	7.4	8.0	7.6	8.0	7.4	8.2	7.7	8.0	7.6
19	7.6	7.3	7.9	7.4	7.9	7.6	8.0	7.4	8.2	7.7	7.9	7.6
20	7.5	7.2	7.9	7.4	7.9	7.6	8.0	7.4	8.2	7.7	8.0	7.6
21	7.6	7.2	7.9	7.4	7.9	7.6	8.0	7.6	8.2	7.7	8.0	7.6
22	7.5	7.3	7.8	7.4	7.9	7.6	8.0	7.6	8.2	7.7	8.1	7.7
23	7.5	7.2	7.9	7.4	7.9	7.6	8.0	7.6	8.2	7.7	8.0	7.7
24	7.4	7.2	7.8	7.4	7.9	7.6	8.0	7.6	8.2	7.7	8.0	7.7
25	7.4	7.1	7.9	7.4	7.9	7.6	8.0	7.6	8.2	7.7	8.0	7.7
26	7.4	7.1	8.0	7.4	7.8	7.5	8.0	7.6	8.2	7.7	8.1	7.7
27	7.3	7.1	8.0	7.6	7.8	7.5	8.0	7.6	8.2	7.7	8.1	7.7
28	7.4	7.1	8.0	7.6	7.8	7.5	8.0	7.6	8.2	7.7	8.0	7.7
29	7.4	7.1	8.0	7.6	7.8	7.5	8.0	7.6	8.2	7.7	8.0	7.7
30	7.4	7.1	8.1	7.6	7.9	7.5	8.1	7.6	8.2	7.7	8.1	7.7
31	---	---	8.1	7.6	---	---	8.1	7.6	8.3	7.9	---	---
MONTH	---	---	8.1	7.0	8.1	7.5	8.1	7.4	8.3	7.6	8.3	7.6

11462500 RUSSIAN RIVER NEAR HOPLAND, CA—Continued

SPECIFIC CONDUCTANCE, WATER, UNFILTERED, MICROSIEMENS PER CENTIMETER AT 25 DEGREES CELSIUS
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	191	190	195	194	219	200	159	70	192	188	160	151
2	191	190	196	195	204	198	140	100	189	104	191	154
3	191	190	198	196	226	204	151	140	129	100	201	191
4	192	190	202	198	231	226	159	150	148	129	206	201
5	191	190	200	198	230	203	176	159	156	148	212	206
6	192	190	200	199	203	110	182	173	174	156	216	212
7	194	192	206	200	165	113	182	179	178	170	219	215
8	193	192	205	201	198	165	185	179	186	178	228	219
9	195	193	---	---	213	198	179	120	188	176	224	222
10	195	190	---	---	203	106	160	120	178	170	228	219
11	193	192	---	---	143	115	172	160	176	173	225	221
12	193	192	---	---	168	110	182	172	203	175	225	220
13	194	192	---	---	118	85	185	179	204	202	220	217
14	194	193	---	---	121	80	187	158	204	202	220	219
15	194	194	---	---	159	121	159	158	203	137	232	219
16	---	---	---	---	181	159	200	158	137	81	232	170
17	---	---	---	---	195	181	207	200	91	70	221	197
18	196	195	---	---	205	195	207	206	130	80	222	220
19	196	194	---	---	210	188	216	206	147	130	221	219
20	196	194	---	---	188	165	210	197	154	146	221	218
21	196	195	212	210	198	175	197	171	156	154	218	217
22	196	195	211	209	205	173	202	172	176	155	221	217
23	195	193	210	209	176	172	210	202	199	175	221	216
24	194	193	211	210	172	106	207	199	200	171	218	216
25	194	193	211	210	143	116	203	200	183	80	218	186
26	194	193	211	210	165	143	204	170	106	100	210	187
27	194	192	211	209	166	164	171	145	137	106	211	200
28	195	193	211	210	190	165	161	145	146	137	210	203
29	195	194	211	199	190	74	191	161	160	146	216	210
30	195	193	218	202	143	92	196	186	---	---	216	213
31	195	193	---	---	157	143	190	185	---	---	216	213
MONTH	---	---	---	---	231	74	216	70	204	70	232	151
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	214	205	193	191	179	177	172	171	181	179	181	180
2	207	205	193	191	178	177	172	171	181	179	181	181
3	207	205	192	191	178	176	173	171	182	180	182	181
4	206	204	192	191	176	173	172	171	182	181	183	181
5	208	204	193	190	174	172	172	169	183	182	184	183
6	208	204	192	190	174	173	171	170	183	182	185	183
7	206	203	191	190	174	173	172	171	184	182	185	184
8	206	203	190	189	174	173	172	171	184	182	187	184
9	206	203	190	188	174	170	172	171	185	183	188	187
10	205	202	191	187	173	172	173	171	185	184	188	187
11	204	203	189	186	173	171	173	172	185	184	189	188
12	203	199	188	187	174	173	174	172	184	181	190	188
13	202	198	187	185	174	171	173	172	182	180	189	188
14	199	198	187	184	172	170	173	172	182	181	191	189
15	199	197	185	184	171	169	174	173	181	179	195	188
16	199	197	185	184	171	169	174	173	182	180	205	189
17	199	197	185	183	171	169	174	173	183	181	190	189
18	199	196	185	184	172	171	174	171	183	178	190	189
19	198	196	185	184	173	171	173	172	178	177	189	187
20	197	191	184	177	173	171	173	168	177	175	190	188
21	197	191	179	177	172	171	171	169	177	175	191	189
22	193	190	180	178	172	171	171	170	177	175	191	189
23	194	192	184	178	172	171	171	170	176	175	191	190
24	195	193	187	184	173	171	172	171	177	176	193	191
25	195	194	185	183	172	170	173	172	178	176	193	192
26	195	193	184	178	171	169	173	172	178	177	194	192
27	195	193	180	178	171	170	173	172	179	177	194	193
28	195	193	179	177	171	170	173	172	179	176	196	194
29	194	192	180	178	172	171	179	173	179	177	196	195
30	193	192	179	178	172	171	179	178	180	177	197	195
31	---	---	179	177	---	---	181	179	180	179	---	---
MONTH	214	190	193	177	179	169	181	168	185	175	205	180

11462500 RUSSIAN RIVER NEAR HOPLAND, CA—Continued

TEMPERATURE, WATER, DEGREES CELSIUS, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	19.7	17.7	15.9	14.9	12.7	12.1	10.2	9.1	9.8	9.4	10.9	10.1
2	19.4	18.0	15.5	14.4	12.7	11.8	9.2	8.4	9.7	8.7	11.7	9.4
3	19.8	17.7	16.0	14.9	13.2	12.3	9.0	8.4	9.7	8.6	11.4	10.0
4	20.1	18.5	15.3	14.2	12.5	12.3	9.0	8.7	10.0	9.3	12.0	10.0
5	19.9	17.9	15.6	15.1	12.7	12.4	9.1	8.1	9.8	8.8	12.2	10.6
6	20.1	18.1	15.7	15.4	12.6	12.2	9.8	9.1	10.1	9.1	12.9	11.1
7	20.4	18.4	15.8	15.4	12.2	11.4	9.7	9.5	9.9	8.8	13.6	11.4
8	19.6	17.9	15.7	15.1	11.4	10.2	10.5	9.7	9.8	8.5	14.0	12.2
9	19.7	18.3	15.5	14.5	10.6	10.3	10.0	9.4	9.8	8.6	14.6	12.7
10	18.7	16.9	15.2	14.3	10.6	9.3	10.4	9.4	9.7	8.3	14.5	12.6
11	18.6	16.7	14.8	13.8	10.5	9.5	10.3	10.1	9.9	8.3	14.2	12.4
12	19.3	17.6	14.8	14.1	10.1	9.7	10.4	9.8	10.4	8.5	14.3	12.3
13	18.6	16.9	14.3	13.7	11.3	9.8	11.2	10.4	10.3	9.6	14.3	12.4
14	18.8	17.1	14.8	14.2	11.3	9.8	11.1	9.6	11.2	9.8	14.7	12.8
15	18.2	16.8	14.9	14.3	9.8	8.6	9.9	9.4	11.1	9.9	14.8	12.8
16	---	---	14.6	14.1	9.6	8.9	10.9	9.3	10.5	9.6	14.4	12.8
17	---	---	15.2	14.0	9.6	8.9	11.5	10.9	11.5	10.5	14.8	12.7
18	18.8	17.4	14.1	13.3	9.9	8.8	11.7	11.1	11.7	10.5	14.9	12.9
19	18.4	17.0	14.2	13.6	10.1	9.8	11.9	11.2	10.5	9.7	14.5	12.5
20	19.0	17.4	14.7	13.4	10.3	9.4	11.5	10.4	10.3	9.7	14.4	12.3
21	19.0	17.4	13.4	12.0	10.8	10.2	10.4	9.1	10.2	9.7	14.8	12.9
22	18.3	17.3	12.3	11.4	10.7	10.1	9.7	8.4	10.6	9.8	14.8	13.0
23	18.6	17.2	12.2	11.2	10.8	10.6	10.0	8.9	11.4	10.2	14.7	13.0
24	18.0	16.5	12.2	11.2	10.7	10.3	10.7	9.9	11.5	10.8	13.8	12.4
25	18.2	16.6	12.3	11.1	10.4	9.4	10.3	8.9	11.2	9.8	12.9	11.4
26	18.3	16.8	12.9	11.9	9.6	8.3	9.7	9.2	10.5	9.8	12.0	10.8
27	18.3	16.7	12.0	11.2	9.8	9.2	9.6	9.1	10.8	9.4	13.8	11.6
28	18.3	16.8	12.6	12.0	9.5	8.9	9.5	8.7	10.5	9.5	14.3	12.1
29	17.8	16.6	12.7	12.2	9.8	7.5	10.5	8.9	10.8	9.6	14.8	12.7
30	16.8	15.4	12.6	12.2	9.7	8.9	11.1	10.4	---	---	14.5	13.0
31	16.5	15.6	---	---	10.2	9.5	10.4	8.9	---	---	13.8	11.7
MONTH	---	---	16.0	11.1	13.2	7.5	11.9	8.1	11.7	8.3	14.9	9.4
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	13.5	11.1	15.7	13.1	16.4	13.7	16.7	14.1	19.4	17.2	21.1	18.6
2	13.7	11.3	16.1	13.4	16.5	13.8	16.9	14.0	19.3	17.1	20.7	18.5
3	14.2	11.6	16.4	13.8	16.4	14.0	17.3	14.4	19.7	16.8	20.7	18.0
4	14.1	11.9	16.2	13.7	16.2	13.4	17.5	14.5	20.1	17.4	21.1	18.3
5	13.4	12.1	15.7	13.4	16.1	13.2	17.7	14.7	19.7	17.3	21.2	19.0
6	13.7	11.0	14.7	13.2	16.0	13.2	17.8	14.9	19.8	16.8	21.4	18.9
7	14.1	11.6	14.3	13.3	15.6	12.9	17.7	15.3	20.5	17.4	21.5	19.0
8	14.7	12.1	14.9	12.7	14.6	12.5	17.4	14.9	20.7	18.0	21.7	19.3
9	15.0	12.6	15.5	12.8	15.6	12.2	16.9	14.6	20.8	18.0	21.8	19.4
10	15.2	12.6	15.3	13.1	16.1	13.2	17.1	14.5	20.9	17.6	21.5	19.1
11	14.6	12.6	14.7	12.8	15.7	12.9	17.4	14.6	20.8	17.9	21.9	19.5
12	14.7	12.6	15.4	12.6	16.2	13.4	17.5	14.8	20.7	17.8	22.1	20.4
13	13.8	12.1	15.6	12.9	16.2	13.6	17.5	14.8	20.5	18.0	21.4	19.2
14	13.1	12.3	15.8	13.4	16.5	13.5	17.3	14.7	20.2	17.9	21.4	19.2
15	12.8	11.5	16.0	13.7	16.7	13.8	17.5	14.8	19.8	17.4	21.9	19.6
16	12.8	11.2	15.6	13.4	17.1	14.0	17.9	15.1	19.9	17.3	22.1	20.1
17	13.6	11.5	14.2	12.8	16.4	13.8	18.1	15.6	20.7	17.9	21.8	19.9
18	12.7	11.3	15.6	12.8	16.7	14.0	18.1	15.6	21.0	18.5	20.8	19.4
19	12.1	11.3	15.7	12.9	16.8	14.2	17.8	15.7	20.2	18.7	20.3	18.9
20	13.0	11.7	15.4	12.8	16.7	13.8	18.1	15.2	20.4	17.8	20.5	18.1
21	14.3	12.1	15.7	13.3	16.7	13.8	18.4	15.7	20.4	18.2	20.8	18.5
22	14.4	11.7	14.5	12.8	16.8	14.0	18.8	15.9	19.2	18.0	20.9	18.7
23	15.0	12.4	15.4	12.3	16.5	13.8	18.7	16.0	20.3	17.8	20.8	18.7
24	15.4	12.8	15.8	13.4	16.5	13.7	18.8	16.2	20.7	18.4	21.1	18.9
25	15.8	13.2	16.3	13.8	16.7	13.8	19.0	16.4	20.5	17.8	21.0	18.8
26	16.1	13.4	16.5	13.7	16.9	14.0	19.1	16.2	20.6	18.1	21.1	19.2
27	16.1	13.4	15.3	14.1	16.9	13.9	18.8	16.1	20.8	18.0	20.9	18.9
28	15.9	13.5	15.5	13.3	17.0	14.1	18.7	16.2	20.9	18.4	20.5	19.1
29	15.5	13.0	15.6	12.8	16.9	14.1	19.2	16.7	20.9	18.2	20.4	19.0
30	15.5	12.8	16.0	13.0	16.8	14.1	19.6	17.1	21.0	18.4	20.4	19.0
31	---	---	16.3	13.6	---	---	19.8	17.3	20.8	18.4	---	---
MONTH	16.1	11.0	16.5	12.3	17.1	12.2	19.8	14.0	21.0	16.8	22.1	18.0

11462500 RUSSIAN RIVER NEAR HOPLAND, CA—Continued

TURBIDITY, WATER, MONOCHROME NEAR INFRA-RED LED LIGHT, 780-900 NM, DETECTION ANGLE 90 +/- 2.5 DEGREES, FNU
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	4.8	0.8	5.0	1.4	130	6.1	>1200	58	15	12	110	73
2	4.0	1.1	7.2	1.6	110	18	280	120	1000	13	88	54
3	4.6	0.7	5.4	1.7	18	5.6	140	97	520	130	60	26
4	4.9	0.7	6.1	2.0	8.6	3.4	110	85	130	58	39	18
5	4.6	0.8	5.3	3.1	53	4.8	87	56	62	42	36	16
6	5.9	0.9	6.4	3.1	730	30	69	41	48	34	20	12
7	5.0	0.6	7.8	3.0	420	42	52	37	46	25	17	10
8	6.6	0.6	24	3.3	44	15	52	32	29	22	16	10
9	3.9	0.6	42	10	37	9.0	480	35	32	21	14	9.2
10	3.9	0.9	25	5.0	480	37	240	45	34	24	16	10
11	5.9	1.6	8.3	3.8	170	48	---	---	34	26	15	11
12	8.0	1.7	5.3	3.9	340	27	---	---	30	21	14	10
13	6.4	2.3	7.0	4.2	780	120	---	---	22	19	17	12
14	4.8	2.9	7.0	3.5	960	110	100	27	22	18	15	11
15	4.9	2.4	6.0	3.4	120	39	90	60	170	20	44	11
16	---	---	7.6	3.2	41	28	64	30	>1200	100	65	11
17	---	---	6.3	3.4	33	22	33	22	>1200	400	26	11
18	6.8	1.7	5.8	3.2	23	15	25	19	820	160	16	11
19	3.9	1.8	5.4	3.2	54	11	22	18	190	110	14	10
20	3.9	1.5	5.7	2.6	110	33	24	17	120	81	14	10
21	5.0	1.6	4.8	1.9	46	12	49	20	87	74	12	9.6
22	4.2	1.7	3.7	1.6	120	9.2	39	21	98	71	13	9.5
23	7.6	1.2	3.6	1.7	68	46	22	15	73	49	13	9.9
24	3.8	1.3	4.4	2.0	890	52	26	16	150	37	12	9.8
25	5.9	1.3	4.6	2.0	170	58	20	13	>1200	45	39	10
26	4.7	1.5	5.8	1.9	89	36	35	13	880	210	52	14
27	5.3	2.5	4.9	2.0	60	51	170	26	330	150	17	12
28	5.6	2.2	5.4	2.2	57	23	130	29	170	94	19	9.2
29	8.9	1.9	10	2.8	>1200	21	33	16	110	75	12	8.5
30	4.5	1.1	11	4.4	360	130	24	12	---	---	13	8.4
31	6.1	1.2	---	---	140	68	22	12	---	---	10	8.1
MONTH	---	---	42	1.4	>1200	3.4	---	---	>1200	12	110	8.1
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	12	8.8	16	10	15	8.3	9.0	5.4	---	---	7.9	2.5
2	11	9.0	15	10	12	8.1	8.9	5.2	---	---	7.9	2.5
3	17	8.9	16	9.9	12	7.9	9.8	4.8	---	---	6.2	2.2
4	18	8.7	16	10	13	8.2	9.3	4.7	9.2	1.1	7.5	2.2
5	15	8.7	14	10	17	8.2	10	3.9	11	1.0	6.4	1.0
6	19	8.6	17	10	15	8.3	7.8	3.4	7.1	1.0	8.0	2.3
7	13	8.8	14	9.9	17	7.5	6.8	3.3	8.3	1.0	8.8	2.0
8	13	8.2	14	9.9	13	7.7	7.5	3.1	8.2	1.0	7.3	2.1
9	10	8.1	13	9.8	12	7.9	6.9	3.5	7.4	1.0	6.8	1.8
10	11	8.2	15	9.9	14	8.6	6.3	3.0	5.2	1.1	7.5	1.7
11	12	8.1	16	9.7	12	8.0	7.5	2.8	4.3	1.3	6.1	1.8
12	14	8.2	14	9.4	14	7.7	6.7	2.7	9.7	1.0	5.8	1.8
13	11	8.3	20	9.4	18	8.3	5.5	2.8	9.1	1.0	6.4	1.9
14	11	8.2	15	9.1	14	8.6	7.5	2.6	4.8	1.6	10	1.8
15	12	8.4	13	9.3	14	8.1	6.5	2.6	5.7	1.8	9.8	2.0
16	12	8.4	13	9.6	16	7.5	6.8	2.7	8.3	1.6	7.1	2.0
17	14	8.3	14	9.1	11	7.1	6.0	2.6	9.5	1.1	5.7	1.7
18	11	8.4	17	9.1	11	6.7	8.7	2.9	7.2	1.7	5.3	1.6
19	12	8.9	16	9.1	10	6.1	8.9	3.0	7.4	1.8	7.2	2.0
20	18	9.0	16	10	26	6.0	9.9	3.2	6.7	1.9	7.1	1.6
21	13	9.2	17	10	12	6.8	---	---	8.9	2.1	---	---
23	14	8.4	15	9.2	10	6.1	---	---	7.3	2.1	---	---
24	12	8.4	16	8.9	11	6.0	---	---	6.9	2.2	---	---
25	12	8.7	14	8.7	13	5.7	---	---	8.6	2.1	---	---
26	16	8.6	14	8.5	11	6.2	---	---	6.8	2.2	---	---
27	14	9.8	13	8.4	12	6.0	---	---	5.6	1.9	---	---
28	17	10	16	8.0	10	6.2	---	---	6.2	2.1	6.7	2.2
29	16	10	22	8.5	9.5	5.9	---	---	9.7	2.2	5.8	2.1
30	16	10	13	8.7	12	5.3	---	---	9.6	2.7	6.7	2.0
31	---	---	13	8.0	---	---	---	---	7.1	2.4	---	---
MONTH	19	8.1	22	8.0	26	5.3	---	---	---	---	---	---

> Actual value is known to be greater than the value shown

RUSSIAN RIVER BASIN

11462500 RUSSIAN RIVER NEAR HOPLAND, CA—Continued

CROSS SECTION ANALYSES, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Time	Depth at sample location, feet (81903)	Turb- idity, IR LED light, det ang 90 deg, FNU (63680)	Dis- solved oxygen, mg/L (00300)	Dis- solved oxygen, percent of sat- uration (00301)	pH, water, unfltrd field, std units (00400)	Specif. conduc- tance, wat unf uS/cm 25 degC (00095)	Temper- ature, deg C (00010)	Loca- tion in X-sect. looking dwnstrm ft from l bank (00009)
NOV									
06...*	1418	2.25	3.0	9.5	96	7.9	198	15.7	10.0
06...*	1423	2.50	3.2	9.6	96	7.9	198	15.7	20.0
06...*	1424	2.50	3.4	9.6	96	7.9	198	15.7	30.0
06...*	1425	2.57	3.3	9.6	97	7.9	198	15.7	40.0
06...*	1427	2.78	3.1	9.6	97	7.9	198	15.7	50.0
06...*	1430	2.68	3.2	9.6	97	7.9	198	15.8	60.0
06...*	1432	2.66	3.2	9.6	97	7.9	198	15.8	70.0
06...*	1433	2.87	2.9	9.6	97	7.9	198	15.8	80.0
06...*	1434	3.05	2.9	9.6	97	7.9	198	15.8	90.0
06...*	1436	3.44	2.9	9.6	97	7.9	198	15.8	100
APR									
28...*	1208	.52	10	9.9	97	7.4	195	14.1	10.0
28...*	1209	.75	12	10.0	97	7.4	195	14.1	20.0
28...*	1210	1.41	13	10.0	97	7.4	195	14.1	30.0
28...*	1211	1.99	12	10.0	98	7.4	195	14.1	40.0
28...*	1212	2.50	11	10.0	97	7.4	195	14.1	50.0
28...*	1213	2.68	12	10.0	98	7.4	194	14.2	60.0
28...*	1214	2.70	12	10.0	98	7.4	195	14.2	70.0
28...*	1215	2.93	11	10.0	98	7.4	195	14.2	80.0
28...*	1216	3.82	11	10.0	98	7.4	194	14.2	90.0
28...*	1217	4.25	11	10.0	98	7.4	195	14.2	100
28...*	1218	3.30	13	10.0	98	7.4	194	14.2	110

* Instantaneous discharge at the time of cross-sectional measurement: Nov. 6, 218 ft³/s; Apr. 28, 226 ft³/s.

11463000 RUSSIAN RIVER NEAR CLOVERDALE, CA

LOCATION.—Lat 38°52'46", long 123°03'09", in NW 1/4 NW 1/4 sec.23, T.12 N., R.11 W., [Mendocino County](#), Hydrologic Unit 18010110, on left bank, 0.3 mi downstream from Cummisky Creek, 5.5 mi northwest of Cloverdale, and 28 mi downstream from Coyote Dam.

DRAINAGE AREA.—503 mi².

PERIOD OF RECORD.—July 1951 to current year.

WATER TEMPERATURE: Water years 1964–69, 1994–96.

SEDIMENT DATA: Water years 1964–68, 1994–96.

GAGE.—Water-stage recorder and crest-stage gage. Elevation of gage is 350 ft above NGVD of 1929, from topographic map. Prior to July 30, 1970, at site 0.2 mi upstream at different datum.

REMARKS.—Records good except for estimated daily discharges, which are fair. Diversions for irrigation of about 15,000 acres upstream from station. Flow also affected by diversion into basin (see [REMARKS](#) for East Fork Russian River stations) and since November 1958 by storage in Lake Mendocino. See schematic diagram of [Russian River Basin](#).

EXTREMES FOR PERIOD OF RECORD.—Maximum discharge, 55,200 ft³/s, Dec. 22, 1964, gage height, 31.60 ft, site and datum then in use; minimum daily, 12 ft³/s, Apr. 22, 1977.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	217	205	497	7910	870	3900	390	290	246	227	167	209
2	224	207	664	5740	3130	3250	391	279	236	235	174	203
3	220	217	366	6150	5050	1890	392	279	227	230	161	200
4	208	214	258	5000	4670	1520	379	273	234	240	157	212
5	211	217	340	2320	3530	1310	376	268	239	241	153	202
6	216	218	1530	1840	2350	1150	371	261	243	228	155	206
7	199	196	1630	1730	1700	1020	363	255	249	205	153	199
8	193	244	696	1590	1400	923	359	259	239	206	156	193
9	192	270	570	2370	1270	841	351	263	236	206	152	178
10	184	234	2650	2670	1380	788	346	260	233	199	137	174
11	168	207	2340	1950	1430	731	342	251	239	196	132	167
12	179	200	1200	1650	1290	678	337	249	216	198	148	177
13	194	197	4130	1450	921	657	333	251	220	199	153	187
14	187	199	5560	1410	854	620	332	248	243	203	154	175
15	177	210	2080	2480	1090	581	341	251	237	206	173	177
16	168	213	1160	2310	7180	640	334	251	233	205	180	158
17	150	206	837	1130	21800	567	339	248	227	199	177	160
18	148	202	662	971	14400	513	329	246	219	213	169	153
19	172	200	670	887	6570	485	353	237	215	222	172	177
20	178	198	1370	830	6240	462	413	253	218	220	177	197
21	153	196	1120	920	4840	442	405	256	224	219	183	198
22	155	196	875	1150	4180	429	414	254	224	220	198	193
23	164	196	2500	781	2430	413	374	259	225	220	207	190
24	164	196	8460	792	2050	400	352	237	219	220	204	188
25	161	196	4060	741	9700	469	337	234	217	224	201	176
26	172	196	2460	774	9710	576	327	243	224	225	203	188
27	195	195	3060	1390	6390	537	316	232	226	220	193	188
28	188	196	2510	1840	6690	506	307	236	236	216	177	175
29	189	212	9760	1490	4940	448	302	234	233	194	192	177
30	180	245	6660	913	---	414	295	241	230	174	215	166
31	196	---	4830	887	---	397	---	249	---	171	211	---
TOTAL	5702	6278	75505	64066	138055	27557	10600	7847	6907	6581	5384	5543
MEAN	184	209	2436	2067	4761	889	353	253	230	212	174	185
MAX	224	270	9760	7910	21800	3900	414	290	249	241	215	212
MIN	148	195	258	741	854	397	295	232	215	171	132	153
AC-FT	11310	12450	149800	127100	273800	54660	21030	15560	13700	13050	10680	10990

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1951 - 2004, BY WATER YEAR (WY)

MEAN	242	552	1608	2661	2600	1755	904	401	243	212	218	215
MAX	659	2636	6398	8324	9790	7015	3708	1306	840	336	359	385
(WY)	1963	1984	1965	1995	1998	1983	1982	2003	1998	1998	1961	1974
MIN	34.5	114	97.8	53.7	44.5	97.2	47.3	80.7	99.9	117	118	72.5
(WY)	1978	1992	1991	1977	1977	1977	1977	1977	1988	1988	1988	1977

SUMMARY STATISTICS

FOR 2003 CALENDAR YEAR

FOR 2004 WATER YEAR

WATER YEARS 1951 - 2004

ANNUAL TOTAL	353553	360025										
ANNUAL MEAN	969	984								961		
HIGHEST ANNUAL MEAN										2144		1983
LOWEST ANNUAL MEAN										99.2		1977
HIGHEST DAILY MEAN	9760	Dec 29	21800	Feb 17	42800	Dec 22	1964					
LOWEST DAILY MEAN	148	Oct 18	132	Aug 11	12	Apr 22	1977					
ANNUAL SEVEN-DAY MINIMUM	160	Oct 17	147	Aug 7	16	Apr 16	1977					
MAXIMUM PEAK FLOW			27700	Feb 17	55200	Dec 22	1964					
MAXIMUM PEAK STAGE			19.62	Feb 17	31.60	Dec 22	1964					
ANNUAL RUNOFF (AC-FT)	701300	714100								696200		
10 PERCENT EXCEEDS	2500	2440								2280		
50 PERCENT EXCEEDS	348	242								266		
90 PERCENT EXCEEDS	196	175								156		

11463170 BIG SULPHUR CREEK AT GEYSERS RESORT, NEAR CLOVERDALE, CA

LOCATION.—Lat 38°47'52", long 122°48'05", in NW 1/4 NW 1/4 sec.19, T.11 N., R.8 W., [Sonoma County](#), Hydrologic Unit 18010110, on left bank, 400 ft downstream from unnamed tributary, and 12 mi east of Cloverdale.

DRAINAGE AREA.—13.1 mi².

PERIOD OF RECORD.—October 1980 to current year.

REVISED RECORDS.—WDR CA-98-2: 1995-96(P).

GAGE.—Water-stage recorder. Elevation of gage is 1,430 ft above NGVD of 1929, from topographic map.

REMARKS.—Records good. Diversion for industrial use 150 ft upstream from station when flows are above 10 ft³/s. See schematic diagram of [Russian River Basin](#).

EXTREMES FOR PERIOD OF RECORD.—Maximum discharge, 8,010 ft³/s, Jan. 1, 1997, gage height, 9.78 ft, from rating curve extended above 1,200 ft³/s, on basis of culvert computation of peak flow; minimum daily, 0.08 ft³/s, Aug. 31, 1983.

EXTREMES FOR CURRENT YEAR.—Peak discharges greater than base discharge of 1,000 ft³/s, or maximum:

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Dec. 6	1600	2,480	7.35	Dec. 29	1145	4,240	8.34
Dec. 14	0230	2,060	7.05	Feb. 17	1645	6,380	9.23
Dec. 24	0700	2,370	7.28	Feb. 25	0845	1,790	6.84

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.1	0.94	101	686	9.1	111	13	8.9	3.0	1.8	0.84	0.59
2	0.90	1.0	102	300	165	79	15	8.2	2.9	1.7	0.85	0.60
3	0.90	1.3	25	160	102	55	14	7.9	2.8	1.5	0.84	0.59
4	0.91	1.1	16	101	60	39	14	7.6	2.8	1.5	0.74	0.56
5	0.90	1.2	30	67	41	33	13	7.5	2.7	1.5	0.72	0.58
6	0.89	1.2	461	49	31	29	13	7.4	2.6	1.4	0.71	0.58
7	0.88	2.0	106	50	24	28	12	7.1	2.6	1.4	0.70	0.57
8	0.87	27	26	64	17	27	12	6.9	2.9	1.4	0.70	0.54
9	1.2	51	54	182	14	27	11	6.6	3.0	1.5	0.71	0.55
10	1.0	9.3	285	155	12	28	11	6.5	2.7	1.4	0.70	0.53
11	0.91	4.6	98	100	11	28	10	6.3	2.6	1.3	0.67	0.51
12	0.88	3.4	55	72	9.5	27	10	5.8	2.5	1.2	0.66	0.52
13	0.86	3.1	258	54	9.9	27	9.9	5.5	2.4	1.2	0.67	0.53
14	0.83	4.6	679	44	8.3	26	10	5.3	2.2	1.2	0.68	0.55
15	0.81	16	145	35	8.3	26	11	5.1	2.2	1.1	0.69	0.52
16	0.83	7.0	75	27	476	26	9.8	4.9	2.2	1.1	0.67	0.52
17	0.84	5.1	48	21	2770	24	9.5	4.7	2.3	1.1	0.66	0.53
18	0.84	4.3	32	19	987	23	9.8	4.7	2.3	1.1	0.64	0.53
19	0.83	3.8	39	17	364	22	20	4.5	2.3	1.0	0.64	0.58
20	0.83	3.5	138	15	202	21	34	4.1	2.2	1.0	0.65	0.57
21	0.81	3.2	139	14	130	20	16	4.1	2.1	0.95	0.65	0.54
22	0.79	3.0	78	12	99	19	14	4.0	2.0	0.90	0.67	0.50
23	0.79	2.8	152	11	68	18	13	3.9	2.0	0.89	0.70	0.50
24	0.79	2.8	984	12	127	17	12	3.8	1.9	0.89	0.69	0.48
25	0.75	2.7	337	9.9	609	37	12	3.7	1.9	0.88	0.69	0.48
26	0.78	2.6	182	9.0	425	18	11	3.6	1.8	0.83	0.69	0.48
27	0.81	2.5	122	30	294	20	11	3.4	1.8	0.80	0.66	0.49
28	0.81	2.6	92	15	188	14	10	3.5	1.7	0.82	0.64	0.50
29	0.85	3.1	1420	10	131	13	9.7	3.5	1.7	0.84	0.62	0.54
30	0.87	12	488	10	---	13	9.3	3.3	1.8	0.85	0.62	0.53
31	0.93	---	242	8.5	---	13	---	3.2	---	0.84	0.60	---
TOTAL	26.99	188.74	7009	2359.4	7392.1	908	380.0	165.5	69.9	35.89	21.37	16.09
MEAN	0.87	6.29	226	76.1	255	29.3	12.7	5.34	2.33	1.16	0.69	0.54
MAX	1.2	51	1420	686	2770	111	34	8.9	3.0	1.8	0.85	0.60
MIN	0.75	0.94	16	8.5	8.3	13	9.3	3.2	1.7	0.80	0.60	0.48
AC-FT	54	374	13900	4680	14660	1800	754	328	139	71	42	32

11463170 BIG SULPHUR CREEK AT GEYSERS RESORT, NEAR CLOVERDALE, CA—Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1981 - 2004, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	2.89	23.9	93.1	111	129	92.1	31.6	18.7	6.03	2.73	1.41	1.23
MAX	20.9	146	343	639	571	358	162	81.6	18.0	7.34	2.99	2.90
(WY)	1990	1984	2003	1995	1986	1995	1982	1990	1998	1998	1998	1985
MIN	0.74	1.22	1.81	2.52	7.34	8.57	8.44	4.79	2.33	0.86	0.69	0.54
(WY)	1989	1981	1991	1991	1989	1988	1990	1986	2004	1984	2004	2004

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1981 - 2004	
ANNUAL TOTAL	16440.60		18572.98			
ANNUAL MEAN	45.0		50.7		42.5	
HIGHEST ANNUAL MEAN					101 1995	
LOWEST ANNUAL MEAN					15.5 1994	
HIGHEST DAILY MEAN	1420	Dec 29	2770	Feb 17	3920	Feb 17 1986
LOWEST DAILY MEAN	0.75	Oct 25	0.48	Sep 24	0.08	Aug 31 1983
ANNUAL SEVEN-DAY MINIMUM	0.79	Oct 21	0.49	Sep 22	0.24	Oct 13 1983
MAXIMUM PEAK FLOW			6380	Feb 17	8010	Jan 1 1997
MAXIMUM PEAK STAGE			9.23	Feb 17	9.78	Jan 1 1997
ANNUAL RUNOFF (AC-FT)	32610		36840		30760	
10 PERCENT EXCEEDS	121		102		90	
50 PERCENT EXCEEDS	12		4.1		6.1	
90 PERCENT EXCEEDS	0.91		0.65		0.95	

11463200 BIG SULPHUR CREEK NEAR CLOVERDALE, CA

LOCATION.—Lat 38°49'34", long 122°59'45", in Rincon de Masalacon Grant, [Sonoma County](#), Hydrologic Unit 18010110, on right bank, 900 ft downstream from unnamed tributary, 1.0 mi upstream of Russian River, and 1.8 mi northeast of Cloverdale.

DRAINAGE AREA.—85.5 mi².

PERIOD OF RECORD.—July 1957 to September 1972, October 1989 to current year (since October 1989, low-flow records only).

WATER TEMPERATURE: Water years 1967–68, 1971–72.

TURBIDITY: Water years 1966–68 (partial-record station).

SEDIMENT DATA: Water years 1964–66 (partial-record station), 1967–68.

REVISED RECORDS.—WSP 1929: 1958–60.

GAGE.—Water-stage recorder. Elevation of gage is 350 ft above NGVD of 1929, from topographic map. Prior to September 1972, at site 0.8 mi upstream at different datum.

REMARKS.—Records good except for estimated daily discharges, which are fair. No records computed above 200 ft³/s. Diversions for irrigation and geothermal recharge upstream from station. See schematic diagram of [Russian River Basin](#).

EXTREMES FOR PERIOD OF RECORD.—Maximum discharge (water years 1958–72), 15,700 ft³/s, Dec. 22, 1964, gage height, 15.08 ft, site and datum then in use, from rating curve extended above 5,700 ft³/s, on basis of slope-area measurement at gage height 16.8 ft; minimum daily, 0.90 ft³/s, Aug. 17, 1994.

EXTREMES OUTSIDE PERIOD OF RECORD.—Flood of Dec. 22, 1955, reached a stage of 16.8 ft, from floodmarks, site and datum then in use, discharge, 20,000 ft³/s, by slope-area measurement of peak flow.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.5	5.0	144	---	33	---	87	45	26	13	4.4	1.9
2	4.5	5.5	---	---	74	---	85	43	22	12	4.5	2.2
3	4.6	6.8	132	---	---	---	83	41	21	11	4.2	2.1
4	4.7	6.8	55	---	---	---	80	39	21	9.9	4.0	1.9
5	4.8	6.8	95	---	---	---	79	39	20	8.7	3.4	1.9
6	4.6	7.0	171	---	---	---	77	38	21	6.9	3.1	1.6
7	4.5	7.8	---	---	186	---	75	38	19	7.1	2.9	1.8
8	4.5	163	143	---	129	---	72	39	20	e7.8	2.7	1.5
9	4.5	177	114	---	99	200	69	38	21	e8.2	2.5	2.0
10	4.7	51	---	---	79	189	66	38	20	e8.3	2.3	1.4
11	5.0	19	---	---	64	179	64	37	19	e7.9	2.0	1.6
12	5.0	16	---	---	52	170	63	36	17	e7.2	1.8	1.6
13	5.0	14	---	---	45	162	62	34	16	e6.2	1.7	2.0
14	4.9	15	---	---	40	155	62	32	15	e5.3	1.6	1.4
15	4.8	32	---	196	40	148	65	30	14	4.9	2.0	1.3
16	4.8	28	---	147	161	141	61	29	13	4.7	2.7	1.1
17	4.9	19	---	116	---	136	59	28	13	4.7	1.9	1.1
18	4.9	17	166	95	---	131	61	29	15	4.7	2.1	1.1
19	4.7	16	169	79	---	124	69	30	15	3.9	1.9	1.2
20	4.7	15	---	65	---	119	137	29	15	3.9	2.0	1.3
21	4.6	14	---	51	---	116	84	29	14	3.8	1.8	1.5
22	4.6	13	---	42	---	112	75	28	13	4.0	1.9	1.5
23	4.6	13	---	36	---	108	66	29	13	3.9	2.3	1.4
24	4.8	13	---	44	---	105	62	32	13	3.8	2.4	1.3
25	4.6	13	---	31	---	142	59	29	12	4.4	2.5	1.3
26	4.4	12	---	26	---	132	56	28	12	4.6	2.6	1.7
27	4.3	12	---	96	---	126	53	27	12	3.9	2.1	1.9
28	4.1	12	---	90	---	108	50	27	12	3.7	2.2	2.0
29	4.1	15	---	45	---	99	48	25	12	3.9	2.1	1.8
30	4.2	19	---	42	---	95	46	24	13	3.9	1.8	2.3
31	4.6	---	---	33	---	91	---	24	---	4.3	1.7	---
TOTAL	143.5	763.7	---	---	---	---	2075	1014	489	190.5	77.1	48.7
MEAN	4.63	25.5	---	---	---	---	69.2	32.7	16.3	6.15	2.49	1.62
MAX	5.0	177	---	---	---	---	137	45	26	13	4.5	2.3
MIN	4.1	5.0	---	---	---	---	46	24	12	3.7	1.6	1.1
AC-FT	285	1510	---	---	---	---	4120	2010	970	378	153	97

e Estimated.

11463980 RUSSIAN RIVER AT DIGGER BEND, NEAR HEALDSBURG, CA

LOCATION.—Lat 38°37'59", long 122°51'16", in Sotoyome Grant, [Sonoma County](#), Hydrologic Unit 18010110, on right bank, 1,800 ft downstream from unnamed tributary, and 1.6 mi northeast of Healdsburg.

DRAINAGE AREA.—791 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.—October 1988 to current year (low-flow records only). Records for October 1985 to September 1988 are in the files of the U.S. Geological Survey.

GAGE.—Water-stage recorder. Elevation of gage is 100 ft above NGVD of 1929, from topographic map.

REMARKS.—Records good. No records computed above 400 ft³/s. See schematic diagram of [Russian River Basin](#).

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	189	189	350	---	---	---	---	366	259	215	162	169
2	190	198	---	---	---	---	---	358	253	212	162	167
3	200	209	---	---	---	---	---	352	247	211	162	163
4	199	214	---	---	---	---	---	346	239	211	155	163
5	191	216	393	---	---	---	---	338	241	217	148	167
6	195	221	---	---	---	---	---	333	242	216	142	164
7	196	228	---	---	---	---	---	325	246	207	141	162
8	186	262	---	---	---	---	---	323	244	196	139	157
9	180	---	---	---	---	---	---	321	239	194	141	151
10	180	351	---	---	---	---	---	319	238	195	135	141
11	178	290	---	---	---	---	---	312	234	189	125	136
12	171	259	---	---	---	---	---	305	234	187	119	134
13	177	243	---	---	---	---	---	300	221	185	126	141
14	180	237	---	---	---	---	---	299	226	183	130	146
15	181	246	---	---	---	---	---	294	229	184	135	139
16	173	264	---	---	---	---	---	292	223	184	145	139
17	166	257	---	---	---	---	---	290	219	180	147	130
18	157	245	---	---	---	---	---	288	218	179	142	125
19	157	237	---	---	---	---	---	285	215	187	140	125
20	171	234	---	---	---	---	---	280	212	192	141	142
21	171	229	---	---	---	---	---	285	213	191	146	152
22	159	225	---	---	---	---	---	283	212	188	156	153
23	159	223	---	---	---	---	---	285	212	189	165	152
24	161	222	---	---	---	---	---	282	211	191	167	151
25	160	222	---	---	---	---	---	271	205	195	167	149
26	162	223	---	---	---	---	---	267	203	197	165	145
27	171	221	---	---	---	---	---	396	266	210	195	163
28	179	220	---	---	---	---	---	386	259	212	194	156
29	173	226	---	---	---	---	---	378	258	215	192	149
30	174	251	---	---	---	---	---	373	256	214	176	160
31	175	---	---	---	---	---	---	261	---	165	169	---
TOTAL	5461	---	---	---	---	---	---	9299	6786	5997	4600	4464
MEAN	176	---	---	---	---	---	---	300	226	193	148	149
MAX	200	---	---	---	---	---	---	366	259	217	169	169
MIN	157	---	---	---	---	---	---	256	203	165	119	125
AC-FT	10830	---	---	---	---	---	---	18440	13460	11900	9120	8850

11463980 RUSSIAN RIVER AT DIGGER BEND, NEAR HEALDSBURG, CA—Continued

WATER-QUALITY RECORDS

PERIOD OF DAILY RECORD.—June 2002 to current year.

DISSOLVED OXYGEN: June 2002 to current year.

pH: June 2002 to current year.

SPECIFIC CONDUCTANCE: June 2002 to current year.

WATER TEMPERATURE: June 2002 to current year.

TURBIDITY: June 2002 to current year.

INSTRUMENTATION.—Water-quality monitor since June 2002. Electronic data logger with 15 minute interval.

REMARKS.—Dissolved oxygen records rated excellent except for Dec. 10–17, Jan. 27 to Feb. 20, July 26 to Aug. 3, which are rated good;

Nov. 4–5, Dec. 31 to Jan. 14, Apr. 27 to May 12, Jun. 2–8, Aug. 19 to Sept. 1, Sept. 24–30, which are rated fair; and Nov. 6–19, May 13–26, Jul. 7–21, Sept. 15–23, which are rated poor. pH records are rated excellent except for Oct. 24 to Nov. 4, Dec. 10–17, Jun. 8–24, which are rated good. Specific conductance records are rated excellent except for Oct. 11–24, Nov. 19 to Dec. 10, June 2–8, which are rated good; and Oct. 1–10, which are rated fair. Water temperature records are rated excellent. Turbidity records are rated excellent except for Nov. 20 to Dec. 17, Jan. 14 to Feb. 20, Mar. 5, 6, May 27 to Jun. 2, Jul. 27 to Aug. 3, which are rated good; Feb. 21 to Mar. 4, Sept. 15–23, which are rated fair; and Oct. 1 to Nov. 19, Mar. 7 to May 12, Jun. 8 to Jul. 21, Aug. 19 to Sept. 14, Sept. 24–30, which are rated poor. Interruption in record due to malfunction of recording and (or) sensing equipment.

EXTREME FOR PERIOD OF RECORD.—

DISSOLVED OXYGEN: Maximum recorded, 16.8 mg/L, Aug. 7, 2002; minimum recorded, 6.0 mg/L, Aug. 16, 2002.

pH: Maximum recorded, 9.2 standard units, Sept. 7, 2003; minimum recorded, 7.4 standard units, July 29, 2002, Mar. 1, 4–7, Sept. 5, 2003.

SPECIFIC CONDUCTANCE: Maximum recorded, 300 microsiemens, June 7–10, 2003; minimum recorded, 92 microsiemens, Dec. 16, 2002, Feb. 17, 2004.

WATER TEMPERATURE: Maximum recorded, 28.0°C, July 10, 2002; minimum recorded, 8.5°C, Dec. 20, 2002.

TURBIDITY: Maximum recorded, >1,200 FNU, several days November 2003 to February 2004; minimum recorded, 0.1 FNU, Oct. 29, Nov. 25–26, 2002, Mar. 12–13, 2003, and several days in October and November 2003.

EXTREME FOR CURRENT YEAR.—

DISSOLVED OXYGEN: Maximum recorded, 13.5 mg/L, Nov. 27; minimum recorded, 6.4 mg/L, Aug. 9, 12.

pH: Maximum recorded, 9.0 standard units, July 2, 3; minimum recorded, 7.5 standard units, Oct. 3–9, Dec. 29.

SPECIFIC CONDUCTANCE: Maximum recorded, 293 microsiemens, Mar. 25; minimum recorded, 87 microsiemens, Feb. 17.

WATER TEMPERATURE: Maximum recorded, 27.5°C, Aug. 11; minimum recorded, 7.9°C, Dec. 27.

TURBIDITY: Maximum recorded, >1,200 FNU, several days November to February; minimum recorded, 0.1 FNU, several days in October and November.

> Actual value is known to be greater than value shown.

DISSOLVED OXYGEN, WATER, UNFILTERED, MILLIGRAMS PER LITER, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	---	---	12.8	9.6	10.5	9.4	11.0	10.2	10.8	10.5	10.5	10.2
2	---	---	13.1	10.1	10.2	9.7	11.0	10.7	11.2	10.6	10.5	10.2
3	---	---	12.9	9.9	10.2	9.6	11.4	10.8	11.3	11.1	10.3	10.1
4	---	---	12.9	9.3	10.0	9.4	11.6	11.3	11.2	10.9	---	---
5	---	---	12.1	8.8	10.1	9.4	11.4	10.8	11.3	11.0	---	---
6	---	---	11.7	8.9	9.8	9.3	11.0	10.7	11.1	10.8	---	---
7	---	---	11.4	8.8	10.2	9.6	10.8	10.7	11.1	10.7	10.2	9.6
8	---	---	10.4	8.6	10.3	9.9	10.8	10.7	11.1	10.6	10.0	9.4
9	---	---	9.3	8.6	10.9	10.0	11.4	10.8	10.9	10.5	9.9	9.3
10	---	---	10.3	8.8	11.1	10.7	11.5	11.0	11.0	10.6	9.8	9.3
11	---	---	11.2	9.1	10.9	10.7	11.1	10.9	11.1	10.7	9.9	9.3
12	---	---	11.4	9.1	10.8	10.4	11.1	10.9	11.0	10.6	---	---
13	---	---	11.0	9.2	10.9	10.4	11.2	11.0	10.8	10.6	---	---
14	---	---	11.2	9.3	10.8	10.4	11.1	10.9	10.7	10.3	---	---
15	---	---	11.3	9.3	11.0	10.5	11.3	10.9	10.4	10.2	---	---
16	---	---	11.6	9.5	10.7	10.2	11.4	11.2	11.0	10.3	---	---
17	---	---	12.0	9.5	10.4	10.0	11.4	10.7	10.8	10.5	---	---
18	---	---	12.3	9.5	10.4	9.9	10.9	10.6	10.6	10.1	---	---
19	---	---	12.3	9.5	10.1	10.0	10.9	10.6	10.8	10.5	---	---
20	---	---	12.2	9.0	10.6	10.1	10.9	10.6	10.8	10.5	---	---
21	---	---	12.5	9.3	10.6	10.0	11.2	10.7	10.5	10.3	---	---
22	---	---	12.9	9.8	10.2	9.9	11.8	11.1	10.4	10.3	---	---
23	---	---	13.1	10.1	10.4	9.9	11.8	11.2	10.4	9.9	---	---
24	---	---	13.1	9.9	10.5	10.3	11.3	10.9	10.2	10.0	---	---
25	12.4	9.2	13.2	9.9	10.5	10.4	11.6	11.0	10.6	10.0	10.4	9.2
26	12.2	8.5	13.1	9.8	10.7	10.5	---	---	10.7	10.6	10.8	9.9
27	12.1	8.5	13.5	9.9	11.3	10.6	---	---	10.8	10.5	11.0	9.5
28	11.9	8.4	11.7	9.8	11.1	10.9	11.3	10.8	10.9	10.6	11.0	9.3
29	11.6	7.8	11.4	9.5	11.2	10.7	11.2	10.8	10.8	10.5	11.0	9.2
30	12.2	8.7	11.6	9.5	10.9	10.5	10.8	10.4	---	---	11.1	8.9
31	12.2	9.5	---	---	10.8	10.3	10.9	10.5	---	---	11.6	9.3
MONTH	---	---	13.5	8.6	11.3	9.3	---	---	11.3	9.9	---	---

11463980 RUSSIAN RIVER AT DIGGER BEND, NEAR HEALDSBURG, CA—Continued

DISSOLVED OXYGEN, WATER, UNFILTERED, MILLIGRAMS PER LITER, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	11.8	9.4	10.5	8.0	---	---	11.0	8.0	9.7	7.3	9.8	7.2
2	11.8	9.3	10.4	7.8	---	---	11.3	7.8	9.7	7.1	9.2	6.9
3	11.9	9.1	10.3	7.8	9.9	7.5	11.1	7.5	9.5	7.3	9.3	7.0
4	11.7	8.9	10.2	7.6	10.2	7.6	10.9	7.3	9.2	6.9	9.1	7.2
5	11.9	9.2	10.6	7.9	10.4	7.7	11.0	7.3	9.2	6.7	9.2	7.2
6	12.0	9.4	10.6	8.1	10.4	7.8	11.0	7.3	9.2	7.0	9.2	6.9
7	---	---	10.3	8.1	10.7	8.1	10.6	7.4	9.0	6.7	9.2	6.9
8	---	---	10.8	8.5	10.5	8.5	10.6	7.5	8.8	6.5	9.2	6.9
9	---	---	10.8	8.5	10.6	7.9	10.7	7.6	8.8	6.4	9.1	6.8
10	---	---	10.9	8.5	10.6	7.7	10.9	8.0	8.8	6.6	9.5	6.8
11	---	---	11.0	8.9	10.4	7.5	10.9	7.6	8.8	6.5	9.4	6.9
12	---	---	10.8	8.7	10.4	7.5	10.9	7.4	8.8	6.4	9.5	6.7
13	---	---	10.4	8.3	10.2	7.4	10.8	7.4	8.9	6.7	9.5	7.0
14	---	---	10.2	8.1	10.3	7.3	11.0	7.5	9.1	6.7	9.7	7.1
15	---	---	9.9	7.9	10.2	7.0	11.0	7.7	9.2	7.1	9.2	7.0
16	---	---	10.0	7.9	10.1	6.7	10.9	7.4	9.0	6.9	9.4	7.0
17	---	---	10.0	8.1	10.3	7.0	10.7	7.5	8.9	6.8	9.6	7.0
18	---	---	10.0	8.1	10.5	7.7	10.7	7.5	8.9	6.6	10.1	7.5
19	---	---	9.9	8.1	10.4	7.5	10.8	7.3	8.8	6.5	10.4	8.1
20	---	---	9.8	7.8	10.4	7.4	10.7	7.5	8.8	6.6	10.8	8.6
21	---	---	9.9	7.8	10.4	7.2	---	---	8.7	6.6	10.9	8.9
22	---	---	9.7	7.6	10.4	7.2	---	---	8.8	6.7	11.0	8.9
23	---	---	9.7	7.6	10.4	7.2	---	---	8.7	6.8	10.5	8.3
24	---	---	9.7	7.6	10.5	7.3	---	---	8.7	6.6	10.4	8.0
25	---	---	9.6	7.3	10.4	7.4	---	---	8.7	6.8	10.3	7.9
26	---	---	9.4	7.6	10.4	7.5	---	---	8.9	7.0	10.3	7.8
27	---	---	9.4	7.5	10.5	7.4	10.1	7.3	8.8	7.0	10.2	7.8
28	10.6	7.7	---	---	10.6	7.3	10.0	7.3	8.9	7.1	10.0	7.7
29	10.6	7.8	---	---	10.5	7.3	10.1	7.5	8.9	6.9	10.2	7.9
30	10.6	8.0	---	---	10.8	7.6	9.9	7.5	9.0	7.0	10.7	8.1
31	---	---	---	---	---	---	9.8	7.2	9.2	7.1	---	---
MONTH	---	---	---	---	---	---	---	---	9.7	6.4	11.0	6.7

11463980 RUSSIAN RIVER AT DIGGER BEND, NEAR HEALDSBURG, CA—Continued

PH, WATER, UNFILTERED, FIELD, STANDARD UNITS, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	8.8	7.6	8.6	7.9	8.0	7.8	8.1	7.9	8.0	8.0	7.8	7.8
2	8.7	7.6	8.6	7.9	7.9	7.8	8.0	7.9	8.1	8.0	7.8	7.8
3	8.6	7.5	8.8	8.0	7.9	7.8	8.0	7.9	8.1	8.0	7.8	7.7
4	8.4	7.5	8.8	8.0	7.9	7.8	8.0	8.0	8.1	8.0	---	---
5	8.6	7.5	8.8	8.1	8.0	7.8	8.0	7.8	8.0	8.0	---	---
6	8.5	7.5	8.7	8.0	8.0	7.8	7.9	7.8	8.0	8.0	---	---
7	8.5	7.5	8.6	8.0	8.0	7.9	7.9	7.9	8.0	7.9	---	---
8	8.6	7.5	8.3	7.9	7.9	7.9	7.9	7.9	8.0	7.9	---	---
9	8.5	7.5	8.0	7.9	7.9	7.8	8.0	7.9	8.0	7.9	---	---
10	8.8	7.6	8.2	7.9	8.0	7.8	8.0	7.9	8.0	7.9	---	---
11	8.9	7.9	8.4	7.9	7.9	7.9	7.9	7.9	8.0	8.0	---	---
12	8.9	7.9	8.4	8.0	7.9	7.9	7.9	7.9	8.0	7.9	---	---
13	8.9	7.9	8.3	8.0	8.0	7.8	7.9	7.9	8.0	7.9	---	---
14	8.9	7.9	8.4	8.0	8.0	7.9	7.9	7.8	8.0	7.9	---	---
15	8.9	7.8	8.4	8.0	7.9	7.9	7.9	7.9	8.0	7.9	---	---
16	8.8	7.8	8.5	8.0	7.9	7.9	8.0	7.9	8.0	7.8	---	---
17	8.8	7.7	8.6	8.0	7.9	7.6	7.9	7.8	8.0	7.9	---	---
18	8.8	7.8	8.6	8.0	7.7	7.7	7.9	7.9	8.0	7.6	---	---
19	8.8	7.8	8.4	7.9	7.7	7.7	7.9	7.9	7.9	7.9	---	---
20	8.8	7.7	8.4	7.8	7.8	7.6	7.9	7.9	8.0	7.8	---	---
21	8.8	7.7	8.4	7.8	7.7	7.6	7.9	7.9	7.8	7.8	---	---
22	8.8	7.7	8.4	7.8	7.7	7.7	7.9	7.9	7.8	7.8	---	---
23	8.8	7.8	8.5	7.9	7.8	7.7	7.9	7.9	7.8	7.8	---	---
24	8.7	7.8	8.5	7.9	7.8	7.6	7.9	7.9	7.8	7.8	---	---
25	8.7	7.8	8.5	7.9	7.7	7.6	7.9	7.9	7.9	7.7	8.1	8.0
26	8.8	7.8	8.5	7.8	7.6	7.6	---	---	7.9	7.8	8.1	8.0
27	8.8	7.8	8.5	7.8	7.7	7.6	---	---	7.8	7.8	8.2	7.9
28	8.8	7.8	8.1	7.8	7.7	7.6	8.1	8.0	7.9	7.8	8.2	8.0
29	8.7	7.8	8.1	7.7	7.7	7.5	8.0	8.0	7.8	7.8	8.2	7.9
30	8.7	7.9	8.3	7.8	7.7	7.6	8.0	7.9	---	---	8.2	7.9
31	8.6	7.9	---	---	8.0	7.6	8.0	8.0	---	---	8.3	8.0
MONTH	8.9	7.5	8.8	7.7	8.0	7.5	---	---	8.1	7.6	---	---
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	8.3	8.0	8.3	7.9	8.4	8.0	8.9	8.1	8.5	8.2	8.5	8.0
2	8.3	7.9	8.3	7.8	8.4	8.0	9.0	8.1	8.5	8.2	8.5	8.0
3	8.3	7.9	8.2	7.8	8.4	7.8	9.0	8.2	8.4	8.1	8.5	8.0
4	8.3	7.9	8.3	7.8	8.4	7.8	8.9	8.1	8.5	8.2	8.5	8.0
5	8.3	7.9	8.3	7.9	8.4	7.8	8.9	8.1	8.4	8.1	8.5	7.9
6	8.3	8.0	8.4	7.9	8.4	7.8	8.9	8.1	8.4	8.1	8.4	7.9
7	---	---	8.2	7.9	8.4	7.8	8.8	8.0	8.4	8.0	8.4	7.9
8	---	---	8.3	7.9	8.4	7.8	8.6	7.9	8.4	8.0	8.4	7.9
9	---	---	8.3	7.9	8.4	7.8	8.5	7.9	8.4	8.0	8.4	7.9
10	---	---	8.3	7.9	8.5	7.8	8.7	7.9	8.4	7.9	8.3	7.9
11	---	---	8.3	8.0	8.5	7.9	8.7	8.0	8.4	7.9	8.3	7.9
12	---	---	8.2	7.9	8.5	7.9	8.8	8.1	8.4	7.9	8.4	7.9
13	---	---	8.2	7.9	8.5	7.9	8.8	8.1	8.3	7.9	8.4	8.0
14	---	---	8.1	7.8	8.6	7.9	8.8	8.1	8.3	7.9	8.4	8.0
15	---	---	8.1	7.8	8.6	8.0	8.8	8.1	8.3	7.9	8.5	7.9
16	---	---	8.1	7.8	8.6	8.0	8.8	8.1	8.4	7.9	8.5	8.0
17	---	---	8.1	7.8	8.5	8.0	8.7	8.1	8.4	7.9	8.5	7.9
18	---	---	8.1	7.8	8.6	8.0	8.8	8.1	8.4	7.9	8.5	8.0
19	---	---	8.1	7.8	8.6	8.1	8.8	8.1	8.5	7.9	8.4	8.0
20	---	---	8.1	7.8	8.6	8.1	8.6	8.0	8.5	8.0	8.4	8.0
21	---	---	8.1	7.8	8.7	8.1	8.9	8.0	8.4	8.0	8.4	8.0
22	---	---	8.1	7.8	8.8	8.1	8.9	8.3	8.4	8.0	8.5	8.0
23	---	---	8.1	7.8	8.9	8.2	8.8	8.2	8.4	8.0	8.4	7.8
24	---	---	8.2	7.9	8.8	8.2	8.8	8.2	8.5	8.0	8.5	7.8
25	---	---	8.1	7.8	8.9	8.1	8.8	8.2	8.4	8.0	8.4	7.8
26	---	---	8.2	7.9	8.9	8.1	8.8	8.2	8.4	8.0	8.4	7.8
27	---	---	8.2	7.9	8.9	8.1	8.8	8.2	8.4	8.1	8.4	7.8
28	8.4	7.9	8.3	7.9	8.9	8.1	8.7	8.2	8.4	8.0	8.3	7.7
29	8.3	7.9	8.4	8.0	8.8	8.0	8.7	8.2	8.4	8.0	8.3	7.7
30	8.3	7.9	8.4	8.0	8.8	8.0	8.7	8.2	8.4	8.0	8.5	7.8
31	---	---	8.4	8.0	---	---	8.6	8.2	8.4	8.0	---	---
MONTH	---	---	8.4	7.8	8.9	7.8	9.0	7.9	8.5	7.9	8.5	7.7

11463980 RUSSIAN RIVER AT DIGGER BEND, NEAR HEALDSBURG, CA—Continued

SPECIFIC CONDUCTANCE, WATER, UNFILTERED, MICROSIEMENS PER CENTIMETER AT 25 DEGREES CELSIUS
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	236	227	243	240	248	234	177	110	248	246	196	183
2	231	225	242	237	253	215	158	103	248	145	199	192
3	229	223	237	234	238	216	167	150	147	134	239	199
4	226	222	243	236	254	238	175	167	160	130	248	237
5	230	223	244	240	266	254	215	175	176	160	255	246
6	231	220	244	242	267	164	227	215	194	176	260	254
7	223	217	244	241	170	126	230	227	215	194	266	260
8	223	217	243	230	221	162	231	228	228	215	270	265
9	222	217	284	221	231	167	232	166	237	228	275	270
10	222	217	284	267	189	133	182	158	237	228	278	275
11	224	220	271	265	164	143	208	182	229	222	279	276
12	227	222	273	268	205	162	220	208	226	223	---	---
13	230	225	273	271	210	122	230	220	254	226	---	---
14	229	224	272	268	139	119	236	230	259	254	---	---
15	229	225	270	265	183	120	236	197	260	253	---	---
16	230	227	276	267	217	183	198	195	253	97	---	---
17	233	230	280	273	233	212	253	197	109	87	---	---
18	237	232	275	269	249	233	262	252	158	92	---	---
19	239	236	273	265	256	249	266	261	166	132	---	---
20	240	234	267	264	254	144	270	266	176	165	---	---
21	237	233	266	263	204	149	279	265	188	176	---	---
22	239	236	265	262	234	204	265	230	190	188	---	---
23	242	239	263	260	239	181	260	230	220	190	---	---
24	249	240	262	258	181	110	269	260	228	220	---	---
25	248	244	261	256	161	123	267	265	224	105	293	276
26	248	244	259	256	196	161	---	---	130	111	277	271
27	247	243	258	255	201	190	---	---	160	130	275	267
28	246	239	258	255	199	196	222	187	166	157	275	271
29	242	238	257	253	199	93	204	189	183	166	277	272
30	242	239	253	247	146	95	245	204	---	---	281	277
31	242	240	---	---	173	146	250	245	---	---	283	280
MONTH	249	217	284	221	267	93	---	---	260	87	---	---
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	285	281	285	281	270	267	249	243	259	253	246	244
2	286	284	285	282	269	266	249	243	260	256	246	243
3	284	282	287	283	270	269	248	243	259	255	247	244
4	283	280	287	282	274	270	248	243	260	254	248	245
5	282	280	285	282	273	271	247	241	262	258	249	246
6	282	280	285	281	272	269	245	240	265	260	248	245
7	---	---	284	281	270	266	246	241	266	262	249	245
8	---	---	285	283	267	257	249	243	266	263	250	246
9	---	---	287	284	259	258	251	248	266	264	250	246
10	---	---	287	284	260	258	251	248	267	263	253	248
11	---	---	285	282	260	258	251	249	270	265	254	250
12	---	---	290	283	260	258	254	250	272	268	255	252
13	---	---	290	288	264	260	253	251	271	269	253	251
14	---	---	289	288	265	262	253	250	270	267	253	250
15	---	---	289	288	264	258	252	249	268	265	251	243
16	---	---	289	286	261	257	251	249	265	260	247	245
17	---	---	286	284	260	254	251	249	260	256	252	246
18	---	---	285	283	256	255	251	249	257	255	252	249
19	---	---	286	283	257	255	251	247	257	255	253	251
20	---	---	286	285	258	256	248	244	257	256	252	249
21	---	---	286	282	260	257	246	242	257	255	249	243
22	---	---	282	278	260	256	245	241	255	253	244	242
23	---	---	279	277	259	255	244	241	253	249	243	241
24	---	---	278	276	257	250	243	241	249	246	244	242
25	---	---	281	277	255	250	244	241	247	246	245	243
26	---	---	282	274	255	250	243	239	255	245	247	244
27	---	---	276	274	254	248	242	238	247	245	247	245
28	283	281	275	274	253	246	244	239	249	245	248	245
29	284	282	274	272	251	245	243	240	253	248	248	245
30	284	281	273	271	249	244	249	241	252	250	251	248
31	---	---	272	270	---	---	255	248	250	245	---	---
MONTH	---	---	290	270	274	244	255	238	272	245	255	241

11463980 RUSSIAN RIVER AT DIGGER BEND, NEAR HEALDSBURG, CA—Continued

TEMPERATURE, WATER, DEGREES CELSIUS, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAY	MAX		MIN		MAX		MIN		MAX		MIN		MAX		MIN	
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH					
1	21.4	18.8	14.9	12.5	12.8	12.5	10.5	9.7	10.9	10.0	12.0	10.9				
2	20.1	18.1	13.9	12.3	13.1	12.2	9.8	9.2	10.4	9.4	12.2	10.4				
3	20.6	17.5	15.2	12.6	13.3	12.2	9.3	8.5	10.3	9.0	11.8	10.6				
4	20.9	18.2	14.6	12.6	13.1	12.6	9.3	8.2	11.1	9.6	12.8	10.4				
5	21.2	17.7	14.9	13.5	13.6	12.8	9.8	8.6	10.5	9.5	12.9	11.1				
6	21.9	18.3	15.0	14.1	13.6	12.9	10.4	9.4	10.7	9.6	14.1	11.6				
7	21.8	18.6	15.2	14.4	12.9	11.9	10.8	10.2	10.9	9.2	14.9	12.2				
8	21.5	18.4	15.2	14.6	11.9	10.7	11.3	10.8	10.7	9.0	15.7	12.9				
9	20.2	17.7	15.2	14.1	11.3	9.8	11.1	10.6	11.0	8.9	16.4	13.7				
10	18.7	15.8	15.5	13.9	10.9	9.7	11.3	10.3	11.0	9.0	16.6	14.0				
11	18.9	15.3	15.2	13.2	10.7	9.9	12.0	11.2	11.0	8.8	16.3	13.6				
12	20.0	16.6	15.4	13.3	10.5	9.8	11.5	11.1	11.1	9.0	---	---				
13	19.7	16.3	14.1	13.2	11.1	10.5	12.1	11.4	10.5	9.6	---	---				
14	19.7	16.2	14.6	13.7	11.3	10.1	12.0	11.6	12.1	10.3	---	---				
15	18.9	15.9	14.6	13.8	10.1	9.1	12.0	11.5	12.1	11.2	---	---				
16	19.4	16.0	14.2	13.2	10.2	9.1	11.5	10.8	11.8	10.8	---	---				
17	19.7	16.7	15.6	13.9	10.4	9.3	12.2	10.7	12.1	11.2	---	---				
18	19.8	16.7	15.0	13.1	10.6	9.1	12.6	11.7	12.3	11.7	---	---				
19	19.0	16.3	15.1	13.4	10.5	9.9	12.9	11.6	11.7	10.8	---	---				
20	20.0	16.4	15.3	13.2	10.5	10.1	12.8	11.8	11.1	10.6	---	---				
21	20.3	17.0	13.2	11.3	11.3	10.3	12.4	10.9	11.1	10.6	---	---				
22	19.6	17.0	12.1	10.5	11.3	10.5	11.5	9.5	11.1	10.5	---	---				
23	19.6	16.7	11.6	9.7	11.0	10.6	11.0	8.9	12.2	10.6	---	---				
24	19.4	16.0	11.8	10.0	11.3	11.0	12.1	10.7	12.5	11.3	---	---				
25	19.7	16.1	11.4	9.7	11.1	9.9	11.5	9.8	12.0	10.8	16.1	13.1				
26	19.8	16.3	12.5	10.5	9.9	9.1	---	---	11.2	10.5	13.9	12.1				
27	19.7	16.4	11.6	10.3	9.4	7.9	---	---	11.4	10.0	16.2	13.1				
28	19.6	16.5	12.1	11.2	9.3	8.4	10.4	9.2	11.2	10.0	17.0	13.8				
29	18.6	15.9	12.3	11.9	9.9	8.9	10.9	9.2	11.3	10.2	17.8	14.8				
30	16.3	14.2	12.6	12.0	10.6	9.8	11.5	10.3	---	---	17.0	15.1				
31	15.0	13.6	---	---	10.7	10.1	11.1	9.6	---	---	16.4	13.5				
MONTH	21.9	13.6	15.6	9.7	13.6	7.9	---	---	12.5	8.8	---	---				
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER					
1	16.4	13.3	21.8	17.8	24.9	20.3	24.1	19.8	24.9	21.2	25.6	21.3				
2	17.0	13.8	22.8	18.4	24.7	20.2	25.4	20.4	23.5	21.0	25.1	20.7				
3	17.6	14.4	23.6	19.2	24.4	20.3	26.1	21.3	25.2	20.3	24.3	20.4				
4	16.8	15.0	23.1	19.4	24.6	20.1	26.5	21.9	26.3	21.3	23.6	20.1				
5	15.9	14.6	21.9	18.6	24.6	20.3	26.3	21.8	25.8	21.2	24.9	19.9				
6	16.9	13.4	20.9	18.1	23.6	19.8	26.0	22.0	25.8	20.7	25.3	20.8				
7	---	---	19.1	17.8	22.2	18.6	24.1	21.5	26.8	21.5	25.6	20.8				
8	---	---	20.9	16.8	21.7	17.7	23.6	20.6	27.3	22.2	25.7	21.0				
9	---	---	21.3	17.4	22.8	18.1	21.5	19.9	26.8	22.4	25.6	21.4				
10	---	---	20.4	16.9	23.5	19.1	24.3	18.9	27.1	21.9	25.2	20.7				
11	---	---	20.1	16.2	23.8	19.3	25.5	20.3	27.5	21.8	25.5	20.8				
12	---	---	21.4	16.7	24.1	19.6	25.4	20.8	26.6	22.1	25.4	21.7				
13	---	---	22.3	17.8	24.0	19.6	25.4	21.0	26.1	21.6	24.4	20.6				
14	---	---	22.5	18.2	24.7	20.0	25.5	20.9	24.6	21.3	24.6	20.2				
15	---	---	22.4	18.7	25.9	20.9	26.1	20.8	25.7	20.4	24.8	20.2				
16	---	---	21.8	18.2	25.9	21.6	26.1	21.7	26.2	21.0	25.2	21.1				
17	---	---	21.3	17.9	23.2	20.3	25.4	21.6	26.9	21.8	24.2	20.8				
18	---	---	21.9	17.8	23.4	19.2	27.1	22.2	27.3	22.3	22.1	19.3				
19	---	---	22.5	18.0	24.2	20.1	27.3	22.9	26.0	22.1	21.1	18.3				
20	---	---	22.3	18.4	25.2	20.6	27.0	22.5	26.0	21.5	21.5	17.2				
21	---	---	21.9	18.6	25.5	20.9	27.4	22.5	25.1	21.5	22.0	17.4				
22	---	---	22.2	18.5	25.6	21.1	27.0	22.7	24.5	21.1	22.2	17.7				
23	---	---	22.4	18.3	25.1	20.8	26.1	22.2	25.6	21.5	22.5	18.2				
24	---	---	22.7	18.5	25.4	20.7	25.5	22.1	26.1	21.8	22.7	18.3				
25	---	---	21.9	18.9	25.1	20.9	26.5	22.1	25.8	21.4	22.6	18.5				
26	---	---	22.3	18.8	25.1	20.6	26.9	22.5	25.7	21.2	22.7	18.4				
27	---	---	22.4	19.5	25.6	20.9	26.1	22.1	26.2	21.3	22.3	18.6				
28	21.9	18.2	22.9	19.4	25.6	21.3	25.0	21.7	26.4	21.4	21.1	19.1				
29	21.5	18.0	22.5	18.2	23.7	21.3	24.6	21.2	26.2	21.7	20.6	18.4				
30	21.3	17.4	23.6	18.6	22.5	20.4	25.4	21.1	26.1	21.8	21.1	18.4				
31	---	---	24.6	19.7	---	---	25.3	21.3	25.6	21.7	---	---				
MONTH	---	---	24.6	16.2	25.9	17.7	27.4	18.9	27.5	20.3	25.7	17.2				

11463980 RUSSIAN RIVER AT DIGGER BEND, NEAR HEALDSBURG, CA—Continued

TURBIDITY, WATER, MONOCHROME NEAR INFRA-RED LED LIGHT, 780-900 NM, DETECTION ANGLE 90 +/-2.5 DEGREES, FNU
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	2.8	0.4	2.3	0.2	130	1.7	>1200	210	50	16	310	140
2	4.5	0.5	5.6	0.3	350	52	>1200	210	>1200	19	260	130
3	7.7	0.5	7.2	0.3	66	17	670	180	810	240	220	91
4	3.6	0.4	3.1	0.3	26	5.2	420	130	530	160	99	67
5	4.8	0.3	8.9	0.1	24	3.8	520	100	270	150	76	49
6	4.1	0.3	17	0.1	>1200	8.1	140	91	170	99	59	42
7	4.8	0.2	17	0.2	>1200	180	110	71	140	75	47	33
8	3.3	0.2	550	0.9	180	45	86	62	82	55	38	27
9	2.3	0.2	>1200	7.7	>1200	20	940	58	61	45	32	22
10	2.7	0.4	250	16	>1200	250	750	140	54	43	26	19
11	4.9	0.3	24	3.9	410	140	150	74	55	44	21	17
12	7.0	0.3	20	1.8	150	54	360	57	52	41	---	---
13	9.4	0.4	24	1.0	650	55	69	44	46	34	---	---
14	7.8	0.4	28	1.0	>1200	270	65	36	39	31	---	---
15	8.3	0.4	30	1.2	620	120	100	45	44	30	---	---
16	4.9	0.4	32	1.2	130	58	94	79	>1200	39	---	---
17	2.2	0.2	17	1.1	61	37	80	37	>1200	840	---	---
18	5.3	0.3	8.6	0.7	40	22	39	27	>1200	690	---	---
19	1.9	0.4	4.7	0.7	27	14	31	21	>1200	310	---	---
20	2.7	0.3	4.9	0.6	660	20	30	18	550	210	---	---
21	3.2	0.2	81	0.7	470	70	22	16	350	170	---	---
22	4.6	0.4	97	0.6	73	29	40	17	270	130	---	---
23	1.7	0.5	5.3	0.6	280	24	34	16	300	120	---	---
24	3.8	0.1	3.0	0.5	>1200	180	22	14	380	130	---	---
25	4.3	0.3	4.1	0.5	890	180	18	12	>1200	120	38	2.8
26	7.2	0.1	2.9	0.5	310	110	---	---	>1200	450	40	13
27	6.5	0.2	2.2	0.6	140	100	---	---	940	300	16	6.5
28	4.6	0.1	5.6	0.6	110	81	130	51	490	210	8.9	4.2
29	5.5	0.1	2.5	0.7	>1200	83	98	46	400	160	7.9	2.9
30	7.0	0.1	7.4	0.8	>1200	300	52	25	---	---	5.0	2.2
31	3.7	0.2	---	---	500	210	29	18	---	---	4.2	1.9
MONTH	9.4	0.1	>1200	0.1	>1200	1.7	---	---	>1200	16	---	---
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	4.6	2.0	8.2	1.0	5.5	2.2	8.1	1.7	8.4	1.0	6.1	1.0
2	7.4	2.1	5.0	0.9	5.7	1.8	8.6	1.7	6.3	1.3	5.6	1.1
3	9.4	1.3	7.8	1.1	7.0	2.0	9.5	2.2	7.8	0.9	7.3	0.8
4	16	2.1	4.1	0.9	7.2	2.0	10	1.3	5.6	0.8	8.1	0.7
5	9.4	2.4	8.4	0.8	5.8	1.7	9.7	2.0	6.3	0.7	5.6	0.9
6	9.0	2.0	5.7	1.3	10	2.1	10	1.4	6.1	0.7	4.7	0.8
7	---	---	7.7	1.2	8.5	1.6	8.7	1.2	9.8	0.8	6.5	0.8
8	---	---	7.7	1.3	6.5	1.8	9.7	1.4	6.2	0.6	6.9	0.8
9	---	---	7.8	1.4	7.6	1.8	7.2	1.7	8.8	0.5	6.8	0.8
10	---	---	5.6	1.4	6.8	1.8	8.2	1.4	8.6	0.5	8.2	1.1
11	---	---	5.7	1.4	5.6	1.6	8.3	1.4	7.6	0.4	6.0	0.6
12	---	---	7.6	1.8	6.3	1.7	9.6	1.0	7.5	0.3	5.2	1.0
13	---	---	8.9	2.1	5.1	1.5	9.6	1.0	9.3	0.4	7.6	1.1
14	---	---	8.6	2.4	5.8	1.3	9.9	0.9	4.7	0.4	8.3	0.8
15	---	---	10	2.9	8.5	1.6	9.1	1.0	9.5	0.5	6.5	0.3
16	---	---	9.9	3.1	8.0	1.2	9.9	1.5	8.7	0.4	4.3	0.3
17	---	---	11	3.0	6.9	1.5	8.7	1.5	9.0	0.3	7.1	0.3
18	---	---	23	3.0	5.4	1.5	8.9	1.4	9.1	0.2	6.9	0.3
19	---	---	10	2.9	7.7	1.3	7.6	1.3	4.2	0.5	5.5	0.4
20	---	---	9.7	3.1	7.7	1.6	9.1	1.4	9.2	0.6	6.8	0.4
21	---	---	22	3.3	6.3	1.2	7.5	0.8	7.4	0.6	6.5	0.4
22	---	---	22	3.3	8.8	1.2	4.9	0.8	9.5	0.7	6.6	0.4
23	---	---	9.0	3.2	6.4	1.4	9.7	0.9	8.9	0.7	6.2	0.5
24	---	---	30	3.3	8.7	1.3	8.2	0.8	7.6	0.6	5.1	0.5
25	---	---	9.0	3.3	6.5	1.4	8.2	0.8	7.5	0.7	6.7	0.6
26	---	---	8.5	2.7	7.0	1.4	5.9	0.9	5.2	0.7	5.1	0.7
27	---	---	17	2.5	9.2	1.6	7.0	1.4	6.4	0.5	6.2	0.8
28	5.2	0.8	15	2.9	10	1.5	8.8	1.4	9.4	0.5	6.0	1.0
29	6.5	1.0	8.1	2.7	9.1	1.7	6.1	1.5	5.1	0.4	5.8	1.0
30	4.2	1.0	11	2.4	9.5	1.6	8.3	1.1	4.6	0.6	6.0	0.9
31	---	---	12	2.2	---	---	8.5	1.1	8.0	1.0	---	---
MONTH	---	---	30	0.8	10	1.2	10	0.8	9.8	0.2	8.3	0.3

> Actual value is known to be greater than the value shown

RUSSIAN RIVER BASIN

11463980 RUSSIAN RIVER AT DIGGER BEND, NEAR HEALDSBURG, CA—Continued

CROSS SECTION ANALYSES, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Time	Depth at sample location, feet (81903)	Turb- idity, IR LED light, det ang 90 deg, FNU (63680)	Dis- solved oxygen, mg/L (00300)	Dis- solved oxygen, percent of sat- uration (00301)	pH, water, unfltrd field, std units (00400)	Specif. conduc- tance, wat un- f uS/cm 25 degC (00095)	Temper- ature, deg C (00010)	Loca- tion in X-sect. looking dwnstrm ft from l bank (00009)
NOV									
05...*	1200	2.40	4.3	11.1	108	8.4	241	14.1	8.0
05...*	1202	3.47	.6	11.2	109	8.4	240	14.2	17.0
05...*	1204	3.58	.7	11.3	110	8.4	241	14.2	26.0
05...*	1206	3.80	.7	11.3	110	8.4	240	14.2	35.0
05...*	1208	3.80	.8	11.4	111	8.5	240	14.2	44.0
05...*	1210	3.50	.7	11.4	111	8.5	240	14.2	53.0
05...*	1212	3.10	.7	11.4	111	8.5	240	14.2	62.0
05...*	1214	2.80	.7	11.4	111	8.5	240	14.2	71.0
05...*	1216	2.53	.7	11.3	110	8.4	240	14.2	80.0
05...*	1218	2.14	.7	11.2	109	8.4	241	14.1	89.0
05...*	1220	1.75	.6	11.1	108	8.4	240	14.0	98.0
AUG									
19...*	1518	2.24	1.0	8.7	106	8.4	256	25.6	10.0
19...*	1519	3.61	1.5	8.8	107	8.4	256	25.5	16.0
19...*	1520	3.08	1.3	8.8	107	8.4	256	25.5	22.0
19...*	1521	3.88	1.1	8.8	108	8.4	256	25.5	28.0
19...*	1522	4.18	1.2	9.0	110	8.4	256	25.5	34.0
19...*	1523	4.17	1.0	9.0	110	8.4	256	25.5	40.0
19...*	1524	4.26	.8	9.0	110	8.4	256	25.4	46.0
19...*	1525	4.36	1.0	9.0	110	8.4	256	25.3	52.0
19...*	1526	4.73	.9	9.0	110	8.4	256	25.3	58.0
19...*	1527	2.77	.9	9.0	110	8.4	256	25.2	64.0

* Instantaneous discharge at time of cross-sectional measurements: Nov. 5, 217 ft³/s; Aug. 19, 142 ft³/s.

11464000 RUSSIAN RIVER NEAR HEALDSBURG, CA

LOCATION.—Lat 38°36'48", long 122°50'07", in Sotoyome Grant, [Sonoma County](#), Hydrologic Unit 18010110, on left bank, 2 mi east of Healdsburg, and 3.5 mi upstream from Dry Creek.

DRAINAGE AREA.—793 mi².

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

CHEMICAL DATA: Water years 1951–66, 1980.

WATER TEMPERATURE: Water years 1966–2002.

REVISED RECORDS.—WSP 981: 1942. WSP 1929: Drainage area.

GAGE.—Water-stage recorder. Datum of gage is 77.01 ft above NGVD of 1929.

REMARKS.—Records good. Several diversions for irrigation of about 17,800 acres upstream from station. Flow also affected by diversion into basin (see [REMARKS](#) for East Fork Russian River stations) and since November 1958 by storage in Lake Mendocino, 63 mi upstream. See schematic diagram of [Russian River Basin](#).

EXTREMES FOR PERIOD OF RECORD.—Maximum discharge, 73,000 ft³/s, Jan. 9, 1995, gage height, 26.23 ft, maximum gage height, 30.0 ft, Feb. 28, 1940; minimum daily discharge, 12 ft³/s, June 14, 1988.

EXTREMES OUTSIDE PERIOD OF RECORD.—Flood of December 1937 reached a stage of 30.8 ft, from floodmarks.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	191	185	379	12600	887	5870	597	365	257	212	157	172
2	194	196	1130	10700	2880	5220	577	355	250	209	156	171
3	204	204	740	8170	6190	3590	566	345	244	211	157	165
4	204	209	408	6980	5860	2800	557	338	233	210	150	166
5	200	210	336	4240	4390	2370	549	329	236	217	144	173
6	201	218	1170	2880	3180	2060	542	325	239	217	137	169
7	202	231	3850	2510	2340	1830	537	318	245	207	136	167
8	188	263	1320	2360	1810	1640	537	315	245	193	135	163
9	180	472	872	3410	1520	1490	539	314	237	192	137	156
10	179	390	4590	4970	1450	1360	526	313	235	191	132	146
11	175	302	4280	3210	1470	1250	518	308	230	186	123	138
12	163	262	2320	2540	1410	1160	514	298	230	182	117	133
13	170	245	3700	2140	1130	1090	506	293	217	179	123	138
14	177	239	9040	1880	962	1040	503	292	219	178	127	140
15	178	248	4690	2390	936	978	498	288	227	179	131	134
16	168	267	2410	2800	7650	926	494	287	221	178	141	134
17	158	263	1630	1810	32500	966	475	286	216	175	145	124
18	146	249	1220	1310	33800	868	470	284	214	174	140	119
19	144	243	998	1130	12200	817	469	280	210	184	137	118
20	163	241	2410	1020	9890	776	492	272	206	189	138	133
21	165	235	3680	953	7860	744	472	283	209	190	142	145
22	148	234	1880	1100	6750	719	461	282	208	187	150	149
23	145	233	2830	985	4990	692	454	284	209	186	163	150
24	148	231	14700	858	4110	663	448	283	208	189	166	147
25	146	232	8990	812	15600	697	442	268	202	196	165	145
26	149	232	4810	736	15900	898	442	263	200	198	164	139
27	160	230	4140	1090	11100	814	423	266	205	197	160	146
28	171	232	3930	1800	9220	800	410	259	208	194	154	151
29	166	238	17100	1620	7610	711	389	256	212	192	147	146
30	167	266	15000	1170	---	657	375	252	211	176	157	145
31	166	---	7680	952	---	622	---	256	---	163	171	---
TOTAL	5316	7500	132233	91126	215595	46118	14782	9157	6683	5931	4502	4422
MEAN	171	250	4266	2940	7434	1488	493	295	223	191	145	147
MAX	204	472	17100	12600	33800	5870	597	365	257	217	171	173
MIN	144	185	336	736	887	622	375	252	200	163	117	118
AC-FT	10540	14880	262300	180700	427600	91480	29320	18160	13260	11760	8930	8770

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1940 - 2004, BY WATER YEAR (WY)

MEAN	267	754	2527	4058	4103	2751	1435	573	268	187	184	190
MAX	1605	5293	8945	14490	16450	11810	6592	2080	972	300	331	360
(WY)	1958	1974	1956	1995	1998	1983	1982	2003	1998	1961	1974	1974
MIN	33.7	122	111	90.9	58.7	146	55.7	85.1	81.3	70.5	82.8	67.4
(WY)	1978	1992	1991	1977	1977	1977	1977	1977	1977	1947	1947	1977

SUMMARY STATISTICS

	FOR 2003 CALENDAR YEAR	FOR 2004 WATER YEAR	WATER YEARS 1940 - 2004
ANNUAL TOTAL	557859	543365	
ANNUAL MEAN	1528	1485	1430
HIGHEST ANNUAL MEAN			3277
LOWEST ANNUAL MEAN			101
HIGHEST DAILY MEAN	17100	Dec 29	33800
LOWEST DAILY MEAN	144	Oct 19	117
ANNUAL SEVEN-DAY MINIMUM	151	Oct 18	127
MAXIMUM PEAK FLOW			48500
MAXIMUM PEAK STAGE		20.75	Feb 18
ANNUAL RUNOFF (AC-FT)	1107000	1078000	1036000
10 PERCENT EXCEEDS	4200	3980	3400
50 PERCENT EXCEEDS	509	264	310
90 PERCENT EXCEEDS	181	146	141

11465000 DRY CREEK BELOW WARM SPRINGS DAM, NEAR GEYSERVILLE, CA

LOCATION.—Lat 38°43'11", long 122°59'58", in Tzabaco Grant, [Sonoma County](#), Hydrologic Unit 18010110, on right bank of outlet channel, 500 ft downstream from Warm Springs Dam, 500 ft upstream from county road bridge, and 5.0 mi west of Geyserville.

DRAINAGE AREA.—131 mi².

PERIOD OF RECORD.—October 1939 to September 1942 (published as "Dry Creek near Healdsburg"), October 1981 to current year.

WATER TEMPERATURE: Water years 1981–94.

GAGE.—Water-stage recorder and concrete control. Datum of gage is 188.21 ft above NGVD of 1929 (levels by U.S. Army Corps of Engineers). Prior to Sept. 30, 1942, nonrecording gage at site 500 ft downstream at different datum.

REMARKS.—Records good. Flow affected by storage in Lake Sonoma, capacity, 380,600 acre-ft, beginning October 1983. See schematic diagram of [Russian River Basin](#).

EXTREMES FOR PERIOD OF RECORD.—Maximum discharge, 22,500 ft³/s, Feb. 28, 1940, gage height, 16.9 ft, datum then in use; no flow Oct. 1 to Dec. 8, 1939. Maximum discharge since regulation by Lake Sonoma, 5,590 ft³/s, Feb. 11, 1998, gage height, 10.38 ft; minimum daily, 6.1 ft³/s, Oct. 21, 22, 1983.

EXTREMES OUTSIDE PERIOD OF RECORD.—Flood of December 1937 reached a stage of 21.8 ft from floodmarks, discharge about 25,000 ft³/s.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	116	118	117	126	170	3130	166	90	108	128	104	124
2	116	119	116	870	174	3260	166	91	110	128	101	130
3	116	120	115	1570	1210	2680	164	90	112	127	99	121
4	116	118	115	1590	1890	1580	164	89	111	127	100	115
5	116	118	116	1640	988	771	165	89	110	126	102	115
6	112	117	118	1150	189	407	166	89	108	122	106	116
7	109	117	116	632	189	408	167	87	108	118	109	115
8	109	121	115	421	189	377	147	89	113	121	110	109
9	109	121	118	421	417	321	133	89	119	113	108	100
10	109	120	117	415	561	285	133	90	120	96	106	103
11	109	119	115	416	561	222	136	96	121	95	110	104
12	111	118	116	415	351	176	124	97	120	95	113	110
13	112	116	117	1020	188	169	99	98	120	95	113	111
14	112	116	118	1180	188	168	101	97	120	95	113	111
15	114	116	117	836	188	167	100	97	122	98	114	111
16	118	115	117	411	197	166	101	96	127	101	112	111
17	118	115	117	176	204	166	101	96	126	101	114	111
18	118	115	119	176	189	166	102	96	127	103	113	111
19	118	116	120	173	383	166	109	101	128	102	123	111
20	112	115	121	321	2300	165	85	107	129	101	135	111
21	109	116	120	673	3120	165	123	106	129	102	134	111
22	109	116	120	448	3120	168	151	101	128	102	135	104
23	109	116	122	171	3170	167	122	94	126	101	127	103
24	109	116	126	171	3180	168	102	95	122	101	116	111
25	110	117	121	170	1460	168	103	100	120	101	108	112
26	111	116	121	170	1060	167	143	100	122	102	104	110
27	111	116	121	171	2540	167	172	100	126	102	104	109
28	111	116	121	169	3180	167	168	100	128	102	108	109
29	110	115	130	169	3170	167	129	100	127	103	112	108
30	109	117	123	169	---	166	90	101	128	103	112	108
31	116	---	122	169	---	166	---	104	---	103	106	---
TOTAL	3484	3511	3687	16609	34726	16786	3932	2975	3615	3314	3471	3335
MEAN	112	117	119	536	1197	541	131	96.0	120	107	112	111
MAX	118	121	130	1640	3180	3260	172	107	129	128	135	130
MIN	109	115	115	126	170	165	85	87	108	95	99	100
AC-FT	6910	6960	7310	32940	68880	33300	7800	5900	7170	6570	6880	6610

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1984 - 2004, BY WATER YEAR (WY)

MEAN	87.1	144	188	450	555	429	184	107	112	116	113	97.1
MAX	128	524	1501	1986	2583	1494	948	335	276	274	169	129
(WY)	2003	1984	1984	1997	1998	1995	1995	2003	1998	1987	1987	2002
MIN	7.70	50.8	49.8	49.3	73.3	25.0	23.0	26.1	25.1	27.0	42.0	39.0
(WY)	1984	1986	1986	1986	1988	1985	1985	1985	1985	1985	1985	1985

SUMMARY STATISTICS

	FOR 2003 CALENDAR YEAR	FOR 2004 WATER YEAR	WATER YEARS 1984 - 2004
ANNUAL TOTAL	94333	99445	
ANNUAL MEAN	258	272	214
HIGHEST ANNUAL MEAN			512
LOWEST ANNUAL MEAN			46.0
HIGHEST DAILY MEAN	2990	Jan 1	3260
LOWEST DAILY MEAN	77	Apr 1	85
ANNUAL SEVEN-DAY MINIMUM	78	Apr 1	89
MAXIMUM PEAK FLOW			4080
MAXIMUM PEAK STAGE			9.25
ANNUAL RUNOFF (AC-FT)	187100	197200	154700
10 PERCENT EXCEEDS	498	415	251
50 PERCENT EXCEEDS	116	117	104
90 PERCENT EXCEEDS	88	100	48

11465200 DRY CREEK NEAR GEYSERVILLE, CA

LOCATION.—Lat 38°41'55", long 122°57'25", in Tzabaco Grant, [Sonoma County](#), Hydrologic Unit 18010110, on left bank pier of bridge, 0.3 mi downstream from Pena Creek, 3.0 mi downstream from Warm Springs Dam, and 3 mi west of Geyserville.

DRAINAGE AREA.—162 mi².

PERIOD OF RECORD.—October 1959 to current year.

CHEMICAL DATA: Water years 1971–81.

WATER TEMPERATURE: Water years 1964–86.

SEDIMENT DATA: Water years 1964–87.

TURBIDITY: Water years 1964–86.

REVISED RECORDS.—WDR CA-65-1: 1962(M), 1963(M).

GAGE.—Water-stage recorder. Datum of gage is 156.40 ft above NGVD of 1929. Prior to Oct. 1, 1964, at datum 4.00 ft higher. Oct. 1, 1964, to Apr. 8, 1976, at datum 3.00 ft higher; Apr. 9, 1976, to Sept. 30, 1982, at datum 2.00 ft higher.

REMARKS.—Records good except for estimated daily discharges, which are fair. Small diversions upstream from station for irrigation of about 1,200 acres. Flow affected by storage in Lake Sonoma, 3.0 mi upstream, capacity, 380,600 acre-ft, beginning October 1983. See schematic diagram of [Russian River Basin](#).

EXTREMES FOR PERIOD OF RECORD.—Maximum discharge, 32,400 ft³/s, Jan. 31, 1963, gage height, 20.50 ft, present datum; no flow at times. Maximum discharge since regulation by Lake Sonoma, 7,600 ft³/s, Jan. 8, 1995, gage height, 15.48 ft; minimum daily, 19 ft³/s, Oct. 18–25, 1984.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	114	115	170	1140	207	3740	201	106	119	135	99	117
2	113	116	189	1500	517	3670	201	106	119	135	96	136
3	112	118	143	2430	1590	3030	200	105	116	135	91	126
4	112	115	137	2320	2440	1850	200	104	117	135	93	111
5	112	115	149	2260	1380	927	201	104	117	135	96	110
6	108	116	286	1610	344	583	201	104	116	128	100	111
7	103	120	204	811	310	556	200	102	115	123	102	111
8	103	135	151	585	288	518	177	104	115	126	103	105
9	104	132	177	780	517	455	152	105	120	120	102	92
10	103	127	449	758	701	420	149	107	123	98	99	95
11	103	127	256	640	697	350	149	115	125	97	101	96
12	105	126	189	573	454	286	141	115	130	97	104	103
13	106	121	225	1150	218	257	121	115	134	96	105	105
14	105	125	522	1480	210	255	121	114	132	96	106	104
15	108	125	244	1000	207	242	120	113	131	97	107	104
16	114	124	189	566	1070	243	122	113	140	101	104	105
17	113	126	167	263	3040	236	122	113	142	104	107	104
18	113	127	155	244	1730	233	121	113	143	104	106	106
19	114	127	157	231	977	233	127	114	143	103	116	107
20	e106	127	222	341	2790	214	116	117	143	101	138	105
21	e100	128	245	701	3810	225	136	117	143	101	139	105
22	e100	127	199	554	3750	217	171	115	142	102	139	99
23	e98	126	278	209	3700	206	143	110	138	100	130	88
24	e99	125	1330	205	3680	203	118	111	131	99	111	98
25	99	125	446	198	3090	221	116	114	126	99	98	98
26	99	126	299	195	1760	210	149	115	128	99	93	98
27	100	125	240	210	3090	208	185	115	136	99	92	98
28	100	125	213	211	3770	205	182	116	139	98	96	99
29	101	127	1800	207	3740	204	148	116	138	98	101	99
30	103	129	724	209	---	202	107	116	137	98	101	99
31	109	---	407	205	---	201	---	117	---	98	97	---
TOTAL	3279	3727	10562	23786	50077	20600	4597	3451	3898	3357	3272	3134
MEAN	106	124	341	767	1727	665	153	111	130	108	106	104
MAX	114	135	1800	2430	3810	3740	201	117	143	135	139	136
MIN	98	115	137	195	207	201	107	102	115	96	91	88
AC-FT	6500	7390	20950	47180	99330	40860	9120	6850	7730	6660	6490	6220

e Estimated.

RUSSIAN RIVER BASIN

11465200 DRY CREEK NEAR GEYSERVILLE, CA—Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1960 - 1983, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	22.5	240	610	1178	959	666	345	80.3	23.3	6.01	1.70	1.35
MAX	323	1619	2035	3930	2038	3095	1499	369	76.0	20.9	8.91	8.61
(WY)	1963	1974	1965	1970	1983	1983	1982	1983	1983	1983	1983	1983
MIN	.000	.54	4.31	22.7	27.1	34.1	9.58	5.64	.25	.000	.000	.000
(WY)	1961	1981	1977	1976	1977	1977	1977	1977	1977	1977	1972	1972

SUMMARY STATISTICS

WATER YEARS 1960 - 1983

ANNUAL MEAN	342	
HIGHEST ANNUAL MEAN	790	1983
LOWEST ANNUAL MEAN	8.81	1977
HIGHEST DAILY MEAN	19400	Jan 16 1974
LOWEST DAILY MEAN	.00	Sep 17 1960
ANNUAL SEVEN-DAY MINIMUM	.00	Sep 17 1960
MAXIMUM PEAK FLOW	32400	Jan 31 1963
MAXIMUM PEAK STAGE	20.50	Jan 31 1963
ANNUAL RUNOFF (AC-FT)	247800	
10 PERCENT EXCEEDS	868	
50 PERCENT EXCEEDS	32	
90 PERCENT EXCEEDS	.08	

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1986 - 2004, BY WATER YEAR (WY)

	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
MEAN	94.1	140	222	709	901	638	232	128	130	126	121	103							
MAX	116	459	755	2634	3890	2110	1115	405	379	296	180	137							
(WY)	1997	1987	2003	1997	1998	1995	1995	2003	1998	1987	1987	2002							
MIN	42.2	60.4	88.2	83.0	85.4	86.0	38.5	36.6	91.8	85.6	96.1	44.1							
(WY)	1991	1986	1991	1991	1991	1988	1990	1991	1996	1999	1990	1991							

SUMMARY STATISTICS

FOR 2003 CALENDAR YEAR

FOR 2004 WATER YEAR

WATER YEARS 1986 - 2004

ANNUAL TOTAL	129209		133740	
ANNUAL MEAN	354		365	
HIGHEST ANNUAL MEAN				286
LOWEST ANNUAL MEAN				676
HIGHEST DAILY MEAN	3840	Jan 1	3810	Feb 21
LOWEST DAILY MEAN	67	Sep 25	88	Sep 23
ANNUAL SEVEN-DAY MINIMUM	99	Oct 21	96	Jul 30
MAXIMUM PEAK FLOW			5680	Feb 25
MAXIMUM PEAK STAGE			13.40	Feb 25
ANNUAL RUNOFF (AC-FT)	256300		265300	207100
10 PERCENT EXCEEDS	949		734	481
50 PERCENT EXCEEDS	126		126	114
90 PERCENT EXCEEDS	105		99	84

11465350 DRY CREEK NEAR MOUTH, NEAR HEALDSBURG, CA

LOCATION.—Lat 38°35'15", long 122°51'40", in Sotoyome Grant, [Sonoma County](#), Hydrologic Unit 18010110, on right bank, 0.25 mi upstream from mouth, 0.4 mi downstream from Mill Creek, 13.5 mi downstream from Warm Springs Dam, and 1.7 mi south of Healdsburg.

DRAINAGE AREA.—217 mi².

PERIOD OF RECORD.—November 1980 to current year (low-flow records only).

GAGE.—Water-stage recorder. Elevation of gage is 50 ft above NGVD of 1929, from topographic map.

REMARKS.—Records good except for estimated discharges, which are fair. No records computed above 200 ft³/s. Some diversions for irrigation upstream from station. Flow regulated by Lake Sonoma, 13.5 mi upstream, beginning October 1983. See schematic diagram of [Russian River Basin](#).

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	110	110	---	---	---	---	---	123	106	115	90	94
2	112	115	---	---	---	---	---	117	104	115	90	120
3	112	120	189	---	---	---	---	115	107	113	84	110
4	112	120	157	---	---	---	---	112	107	114	82	102
5	113	120	---	---	---	---	---	111	107	115	83	102
6	110	119	---	---	---	---	---	110	107	113	84	103
7	99	122	---	---	---	---	---	109	109	107	89	103
8	97	e150	---	---	---	---	---	110	109	105	89	97
9	94	e143	---	---	---	---	174	108	115	108	91	88
10	94	e133	---	---	---	---	165	107	115	93	87	89
11	94	e132	---	---	---	---	161	112	115	e81	86	87
12	94	e131	---	---	---	---	157	113	115	e82	90	92
13	98	e123	---	---	---	---	135	113	113	e81	91	93
14	95	123	---	---	---	---	129	112	111	e80	94	94
15	94	123	---	---	---	---	129	110	105	82	96	94
16	107	123	---	---	---	---	128	110	110	86	93	93
17	109	121	---	---	---	---	127	110	118	89	93	91
18	111	121	---	---	---	---	126	108	120	91	93	94
19	113	122	---	---	---	---	151	108	121	90	94	96
20	110	121	---	---	---	---	190	113	122	88	116	96
21	96	121	---	---	---	---	147	114	121	87	121	93
22	94	119	---	---	---	---	185	114	120	86	123	92
23	89	117	---	---	---	---	176	108	117	87	122	79
24	89	117	---	---	---	---	144	106	113	88	109	e87
25	88	117	---	---	---	---	138	107	107	90	96	e91
26	88	117	---	---	---	---	148	109	105	90	88	e92
27	91	117	---	---	---	---	186	108	109	88	84	e91
28	92	117	---	---	---	---	e198	107	114	89	83	e92
29	91	120	---	---	---	---	e195	106	115	89	90	e93
30	93	135	---	---	---	---	131	106	116	89	95	e92
31	97	---	---	---	---	---	---	106	---	89	95	---
TOTAL	3086	3689	---	---	---	---	---	3422	3373	2920	2921	2840
MEAN	99.5	123	---	---	---	---	---	110	112	94.2	94.2	94.7
MAX	113	150	---	---	---	---	---	123	122	115	123	120
MIN	88	110	---	---	---	---	---	106	104	80	82	79
AC-FT	6120	7320	---	---	---	---	---	6790	6690	5790	5790	5630

e Estimated.

11465680 LAGUNA DE SANTA ROSA AT STONY POINT ROAD, NEAR COTATI, CA

LOCATION.—Lat 38°21'08", long 122°44'35", in Llano de Santa Rosa Grant, Sonoma County, Hydrologic Unit 18010110, on right bank, upstream side of Stony Point Road bridge, 300 ft downstream of unnamed tributary, and 1.5 mi west of Rohnert Park.

DRAINAGE AREA.—40.8 mi².

PERIOD OF RECORD.—November 1998 to current year.

GAGE.—Water-stage recorder. Datum of gage is NGVD of 1929.

REMARKS.—Records fair except for estimated daily discharges, which are poor. No regulation or diversion upstream from station. See schematic diagram of Russian River Basin.

EXTREMES FOR PERIOD OF RECORD.—Maximum discharge, 2,850 ft³/s, Feb. 13, 2000, gage height, 87.29 ft, maximum gage height, 87.53 ft, Dec. 13, 2003; no flow Sept. 27, 2002.

EXTREMES FOR CURRENT YEAR.—Peak discharges greater than base discharge of 1,100 ft³/s, or maximum:

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Dec. 29	1145	1,460	86.31	Feb. 16	1500	1,890	87.45
Jan. 1	1230	1,240	85.62	Feb. 25	unknown	e1,200	unknown

e Estimated.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.36	0.52	5.2	570	14	61	5.7	2.4	0.59	e0.04	0.02	e0.00
2	0.37	0.63	39	252	227	55	5.1	2.3	0.56	e0.04	0.01	e0.00
3	0.39	0.79	7.1	133	153	39	4.6	2.2	0.54	e0.03	0.05	e0.00
4	0.41	0.81	0.78	64	64	33	4.3	2.1	0.52	e0.03	0.06	e0.00
5	0.40	0.74	3.6	42	32	29	4.3	2.0	0.50	e0.03	0.04	e0.00
6	0.40	0.83	14	33	22	26	4.6	2.0	0.43	e0.03	0.01	e0.00
7	0.38	0.99	67	41	24	23	4.3	2.0	0.38	0.03	0.00	e0.00
8	0.34	37	2.3	38	17	20	4.0	2.1	0.32	0.05	0.00	e0.00
9	0.31	101	1.5	106	12	21	3.9	2.0	0.30	0.05	0.00	e0.00
10	0.31	27	178	164	10	19	3.8	1.8	0.30	0.05	0.00	e0.00
11	0.33	2.6	50	61	7.6	17	3.7	1.7	0.27	0.02	0.00	e0.00
12	0.32	0.97	20	36	6.2	15	3.7	1.9	0.25	0.01	0.00	e0.00
13	0.31	0.69	26	27	5.5	14	3.8	2.1	0.22	0.00	0.00	e0.00
14	0.28	0.58	62	25	7.5	12	3.6	1.9	0.20	0.00	0.00	e0.00
15	0.27	1.1	30	25	5.8	11	3.2	1.8	0.18	0.00	0.00	e0.00
16	e0.26	1.3	13	20	e873	9.7	3.1	1.5	0.16	0.00	0.00	0.00
17	e0.25	0.85	6.5	17	e685	9.3	3.1	1.3	0.14	0.00	0.00	0.00
18	e0.25	0.69	3.8	14	e420	9.1	8.4	1.2	0.14	0.00	0.00	0.00
19	e0.24	0.66	5.0	12	e140	8.4	25	1.3	0.15	0.00	0.00	0.00
20	e0.24	0.48	55	11	e65	7.6	15	1.4	0.15	0.00	0.00	0.00
21	e0.24	0.43	127	10	e50	7.3	10	1.2	0.13	0.00	0.00	0.00
22	e0.24	0.38	33	8.1	e40	7.7	5.3	1.1	0.11	0.00	0.00	0.00
23	e0.23	0.35	21	7.0	e32	8.2	3.7	1.0	0.11	0.00	0.00	0.00
24	e0.23	0.33	404	11	e70	7.5	3.1	0.90	0.10	0.00	0.00	0.00
25	0.23	0.32	153	11	e600	21	2.9	0.95	0.09	0.00	0.00	0.00
26	0.22	0.31	61	7.7	296	45	2.7	0.91	0.10	0.00	e0.00	0.00
27	0.21	0.30	37	23	e156	16	2.7	0.87	0.08	0.00	e0.00	0.00
28	0.20	0.32	27	29	86	10	2.7	0.84	e0.06	0.03	e0.00	0.00
29	0.20	0.37	833	15	61	7.7	2.7	0.80	e0.05	0.03	e0.00	0.00
30	0.22	0.75	351	13	---	6.9	2.5	0.71	e0.05	0.03	e0.00	0.00
31	0.24	---	71	13	---	6.4	---	0.64	---	0.02	e0.00	---
TOTAL	8.88	184.09	2707.78	1838.8	4181.6	582.8	155.5	46.92	7.18	0.52	0.19	0.00
MEAN	0.29	6.14	87.3	59.3	144	18.8	5.18	1.51	0.24	0.02	0.01	0.00
MAX	0.41	101	833	570	873	61	25	2.4	0.59	0.05	0.06	0.00
MIN	0.20	0.30	0.78	7.0	5.5	6.4	2.5	0.64	0.05	0.00	0.00	0.00
AC-FT	18	365	5370	3650	8290	1160	308	93	14	1.0	0.4	0.00

e Estimated.

11465680 LAGUNA DE SANTA ROSA AT STONY POINT ROAD, NEAR COTATI, CA—Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1999 - 2004, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	2.77	16.4	95.6	61.1	126	41.2	17.0	8.05	1.18	0.59	0.36	0.29
MAX	9.46	48.0	232	127	253	75.8	36.3	31.0	1.94	0.77	0.91	0.92
(WY)	2001	2002	2002	2002	2000	2000	2003	2003	2003	1999	1999	1999
MIN	0.12	3.45	2.28	33.3	28.1	14.3	5.18	0.85	0.24	0.02	0.01	0.00
(WY)	2003	2001	2000	2001	2003	2003	2004	2001	2004	2004	2004	2004

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1999 - 2004	
ANNUAL TOTAL	8392.53		9714.26			
ANNUAL MEAN	23.0		26.5		30.1	
HIGHEST ANNUAL MEAN					40.2	
LOWEST ANNUAL MEAN					14.7	
HIGHEST DAILY MEAN	833	Dec 29	873	Feb 16	1940	Feb 13 2000
LOWEST DAILY MEAN	0.13	Aug 13	0.00	Jul 13	0.00	Sep 27 2002
ANNUAL SEVEN-DAY MINIMUM	0.13	Aug 12	0.00	Jul 13	0.00	Jul 13 2004
MAXIMUM PEAK FLOW			1890	Feb 16	2850	Feb 13 2000
MAXIMUM PEAK STAGE			87.45	Feb 16	87.53	Dec 13 2003
ANNUAL RUNOFF (AC-FT)	16650		19270		21780	
10 PERCENT EXCEEDS	60		50		64	
50 PERCENT EXCEEDS	2.9		0.93		1.5	
90 PERCENT EXCEEDS	0.19		0.00		0.13	

11465700 COLGAN CREEK NEAR SEBASTOPOL, CA

LOCATION.—Lat 38°22'25", long 122°46'02", in Llano de Santa Rosa Grant, [Sonoma County](#), Hydrologic Unit 18010110, on left bank, downstream side of Llano Road bridge, 0.5 mile upstream of Laguna de Santa Rosa, and 3.5 mi southeast of Sebastopol.

DRAINAGE AREA.—6.78 mi².

PERIOD OF RECORD.—November 1998 to current year.

GAGE.—Water-stage recorder and dopler-velocity system. Datum of gage is NGVD of 1929.

REMARKS.—Records poor. No regulation or diversion upstream of station. High flow periods are effected by backwater from Laguna de Santa Rosa. See schematic diagram of [Russian River Basin](#).

EXTREMES FOR PERIOD OF RECORD.—Maximum discharge, 865 ft³/s, Jan. 2, 2002, gage height, 77.24 ft, maximum gage height, 78.02 ft, Feb. 16, 2004; no flow for many days in each year.

EXTREMES FOR CURRENT YEAR.—Peak discharges greater than base discharge of 290 ft³/s, or maximum:

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Dec. 29	1100	616	77.17	Feb. 16	1515	740	78.02
Jan. 1	1130	448	75.90	Feb. 25	1015	507	76.36

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.00	0.00	9.1	198	4.4	14	1.1	0.51	0.21	0.00	0.00	0.01
2	0.00	0.00	11	59	106	9.3	1.0	0.49	0.19	0.00	0.00	0.01
3	0.00	0.00	2.1	23	60	6.2	1.0	0.47	0.18	0.00	0.00	0.01
4	0.00	0.00	0.66	11	17	5.2	0.96	0.45	0.19	0.00	0.00	0.02
5	0.00	0.51	4.8	7.5	7.6	4.7	0.98	0.44	0.18	0.00	0.00	0.02
6	0.00	0.34	11	6.3	5.2	4.1	0.96	0.42	0.16	0.00	0.00	0.02
7	0.00	2.5	7.0	9.6	5.9	3.7	0.88	0.42	0.14	0.00	0.00	0.02
8	0.00	2.6	3.4	7.9	4.1	3.7	0.86	0.40	0.11	0.00	0.00	0.02
9	0.00	9.3	2.6	41	3.6	3.5	0.86	0.37	0.07	0.00	0.00	0.00
10	0.00	2.9	23	37	3.2	3.1	0.82	0.36	0.03	0.00	0.00	0.00
11	0.00	0.59	8.2	13	3.6	2.9	0.81	0.34	0.00	0.01	0.00	0.00
12	0.00	0.45	4.8	8.5	3.7	2.7	0.79	0.31	0.00	0.00	0.00	0.00
13	0.00	0.37	4.5	6.7	3.1	2.9	0.77	0.30	0.00	0.00	0.00	0.00
14	0.00	0.33	8.0	6.4	3.8	2.2	0.75	0.30	0.00	0.00	0.00	0.00
15	0.00	2.0	7.2	5.4	2.9	1.9	0.75	0.29	0.00	0.00	0.00	0.00
16	0.00	1.8	6.0	4.5	331	1.7	0.78	0.28	0.00	0.00	0.00	0.00
17	0.00	0.57	2.9	4.1	299	1.7	1.3	0.28	0.00	0.00	0.00	0.00
18	0.00	0.39	0.82	3.8	203	1.6	2.6	0.27	0.00	0.00	0.00	0.00
19	0.00	0.33	1.7	3.6	46	1.5	3.5	0.27	0.00	0.00	0.00	0.00
20	0.00	0.29	16	3.4	23	1.4	6.5	0.27	0.00	0.00	0.00	0.00
21	0.00	0.26	15	3.3	16	1.4	1.4	0.27	0.00	0.00	0.00	0.00
22	0.00	0.24	6.3	2.9	15	1.3	0.93	0.27	0.00	0.00	0.00	0.00
23	0.00	0.23	5.4	2.4	12	1.3	0.78	0.27	0.00	0.00	0.00	0.00
24	0.00	0.22	122	4.0	10	1.2	0.80	0.27	0.00	0.00	0.00	0.00
25	0.00	0.21	28	2.7	247	13	0.69	0.27	0.00	0.00	0.00	0.00
26	0.00	0.20	11	2.0	121	6.5	0.64	0.27	0.00	0.00	0.00	0.00
27	0.00	0.20	6.1	7.1	59	2.2	0.60	0.27	0.00	0.00	0.02	0.00
28	0.00	0.20	4.3	5.4	18	1.5	0.61	0.26	0.00	0.00	0.02	0.00
29	0.00	0.22	359	3.4	9.6	1.4	0.57	0.24	0.00	0.00	0.01	0.00
30	0.00	1.9	111	3.3	---	1.3	0.54	0.23	0.00	0.00	0.01	0.00
31	0.00	---	15	3.0	---	1.2	---	0.22	---	0.00	0.01	---
TOTAL	0.00	52.55	817.88	499.2	1643.7	110.3	35.53	10.08	1.46	0.01	0.07	0.13
MEAN	0.00	1.75	26.4	16.1	56.7	3.56	1.18	0.33	0.05	0.00	0.00	0.00
MAX	0.00	26	359	198	331	14	6.5	0.51	0.21	0.01	0.02	0.02
MIN	0.00	0.00	0.66	2.0	2.9	1.2	0.54	0.22	0.00	0.00	0.00	0.00
AC-FT	0.00	104	1620	990	3260	219	70	20	2.9	0.02	0.1	0.3

11465700 COLGAN CREEK NEAR SEBASTOPOL, CA—Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1999 - 2004, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	0.46	6.35	30.2	17.4	34.6	10.4	4.27	1.55	0.23	0.04	0.01	0.00
MAX	1.46	23.0	86.8	48.8	62.7	21.3	11.0	5.04	0.47	0.13	0.04	0.01
(WY)	2001	2002	2002	2002	2000	2000	2003	2003	2003	2000	2000	1999
MIN	0.00	0.81	0.30	7.06	5.62	3.56	1.14	0.25	0.05	0.00	0.00	0.00
(WY)	2004	2001	2000	2001	2003	2004	2002	2001	2004	2004	2001	2000

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1999 - 2004	
ANNUAL TOTAL	2053.47		3170.91			
ANNUAL MEAN	5.63		8.66		8.85	
HIGHEST ANNUAL MEAN					14.7	2002
LOWEST ANNUAL MEAN					3.56	2001
HIGHEST DAILY MEAN	359	Dec 29	359	Dec 29	647	Jan 2 2002
LOWEST DAILY MEAN	0.00	Jul 15	0.00	Oct 1	0.00	Jul 16 1999
ANNUAL SEVEN-DAY MINIMUM	0.00	Jul 15	0.00	Oct 1	0.00	Aug 12 1999
MAXIMUM PEAK FLOW			740	Feb 16	865	Jan 2 2002
MAXIMUM PEAK STAGE			78.02	Feb 16	78.02	Feb 16 2004
ANNUAL RUNOFF (AC-FT)	4070		6290		6410	
10 PERCENT EXCEEDS	11		10		13	
50 PERCENT EXCEEDS	0.83		0.29		0.28	
90 PERCENT EXCEEDS	0.00		0.00		0.00	

11465750 LAGUNA DE SANTA ROSA NEAR SEBASTOPOL, CA

LOCATION.—Lat 38°25'32", long 122°49'41", in SE 1/4 NW 1/4 sec.26, T.7 N., R.9 W., [Sonoma County](#), Hydrologic Unit 18010110, on right bank, upstream side of Occidental Road bridge, and 1.6 mi north of Sebastopol.

DRAINAGE AREA.—79.6 mi².

PERIOD OF RECORD.—November 1998 to current year.

GAGE.—Water-stage recorder and dopler-velocity system. Datum of gage is NAVD of 1988.

REMARKS.—Records fair. No regulation or diversion upstream of station. High-flow periods are affected by backwater. See schematic diagram of [Russian River Basin](#).

EXTREMES FOR PERIOD OF RECORD.—Maximum discharge, 5,140 ft³/s, Feb. 13, 2000, maximum gage height, 67.24 ft, Feb. 18, 2004; no flow Oct. 1–3, 2002.

EXTREMES FOR CURRENT YEAR.—Peak discharges greater than base discharge of 1500 ft³/s (revised), or maximum:

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Dec. 30	0145	2,280	65.29	Feb. 25	2100	1,930	a
Feb. 17	0030	3,540	a	Feb. 26	0015	a	62.21
Feb. 18	1415	a	67.24				

a Affected by backwater.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.06	0.91	7.4	647	68	197	15	5.0	1.1	0.07	0.00	0.00
2	0.06	0.94	34	894	212	231	14	4.6	1.0	0.07	0.00	0.00
3	0.07	1.1	85	446	609	163	13	4.3	0.95	0.06	0.00	0.00
4	0.08	1.2	63	272	335	126	12	3.9	0.87	0.05	0.00	0.00
5	0.09	1.3	52	206	194	108	11	3.4	0.80	0.04	0.00	0.00
6	0.11	1.5	81	169	138	96	10	3.1	0.74	0.03	0.00	0.00
7	0.13	1.9	154	164	111	88	10	2.8	0.66	0.03	0.00	0.00
8	0.15	4.2	158	201	94	74	9.5	2.7	0.61	0.02	0.00	0.00
9	0.17	48	117	192	78	67	9.0	2.5	0.58	0.02	0.00	0.00
10	0.19	125	157	528	67	65	8.6	2.2	0.55	0.02	0.00	0.00
11	0.22	84	281	308	62	60	8.3	2.1	0.52	0.02	0.00	0.00
12	0.25	41	205	229	88	57	8.1	1.9	0.47	0.01	0.00	0.00
13	0.28	22	121	170	85	49	7.7	1.8	0.41	0.01	0.00	0.00
14	0.32	14	113	150	76	47	7.4	1.6	0.37	0.01	0.00	0.00
15	0.37	12	186	145	77	40	7.1	1.5	0.33	0.00	0.00	0.00
16	0.41	10	165	120	1030	32	6.9	1.4	0.29	0.00	0.00	0.00
17	0.47	9.4	130	101	2010	35	6.8	1.4	0.27	0.00	0.00	0.00
18	0.54	9.4	79	98	1010	30	6.6	1.4	0.26	0.00	0.00	0.00
19	0.60	8.9	38	92	1190	29	7.9	1.4	0.25	0.00	0.00	0.00
20	0.66	8.1	46	87	503	24	14	1.3	0.24	0.00	0.00	0.00
21	0.72	7.1	311	81	293	16	40	1.2	0.23	0.00	0.00	0.00
22	0.78	6.3	275	80	259	15	32	1.2	0.22	0.00	0.00	0.00
23	0.82	5.7	201	70	241	14	15	1.2	0.21	0.00	0.00	0.00
24	0.83	5.2	386	62	200	13	12	1.2	0.20	0.00	0.00	0.00
25	0.85	5.0	626	66	668	14	9.7	1.2	0.18	0.00	0.00	0.00
26	0.85	4.6	331	62	930	76	8.4	1.2	0.16	0.00	0.00	0.00
27	0.85	4.5	214	87	511	105	7.3	1.2	0.13	0.00	0.00	0.00
28	0.86	4.5	148	165	318	63	6.5	1.2	0.11	0.00	0.00	0.00
29	0.86	4.8	666	117	219	46	5.9	1.2	0.09	0.00	0.00	0.00
30	0.86	5.4	1470	85	---	33	5.4	1.2	0.08	0.00	0.00	0.00
31	0.87	---	572	72	---	28	---	1.2	---	0.00	0.00	---
TOTAL	14.38	457.95	7472.4	6166	11676	2041	335.1	63.5	12.88	0.46	0.00	0.00
MEAN	0.46	15.3	241	199	403	65.8	11.2	2.05	0.43	0.01	0.00	0.00
MAX	0.87	125	1470	894	2010	231	40	5.0	1.1	0.07	0.00	0.00
MIN	0.06	0.91	7.4	62	62	13	5.4	1.2	0.08	0.00	0.00	0.00
AC-FT	29	908	14820	12230	23160	4050	665	126	26	0.9	0.00	0.00

11465750 LAGUNA DE SANTA ROSA NEAR SEBASTOPOL, CA—Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1999 - 2004, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	1.87	35.8	223	183	342	121	45.3	22.7	2.97	1.00	0.39	0.26
MAX	5.56	97.1	523	352	630	210	106	96.5	5.38	2.30	1.32	0.98
(WY)	2001	2002	2003	2003	2000	2000	2003	2003	1999	1999	1999	1999
MIN	0.09	14.1	24.7	93.3	73.2	65.8	9.75	2.05	0.43	0.01	0.00	0.00
(WY)	2002	2001	2001	2000	2002	2004	2001	2004	2004	2004	2004	2004

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1999 - 2004	
ANNUAL TOTAL	32580.75		28239.67			
ANNUAL MEAN	89.3		77.2		78.0	
HIGHEST ANNUAL MEAN					114 2003	
LOWEST ANNUAL MEAN					38.4 2001	
HIGHEST DAILY MEAN	1470	Dec 30	2010	Feb 17	3710	Feb 14 2000
LOWEST DAILY MEAN	0.04	Sep 16	0.00	Jul 15	0.00	Oct 1 2002
ANNUAL SEVEN-DAY MINIMUM	0.04	Sep 16	0.00	Jul 15	0.00	Jul 15 2004
MAXIMUM PEAK FLOW			3540	Feb 17	5140	Feb 13 2000
MAXIMUM PEAK STAGE			67.24	Feb 18	67.24	Feb 18 2004
ANNUAL RUNOFF (AC-FT)	64620		56010		56540	
10 PERCENT EXCEEDS	248		202		198	
50 PERCENT EXCEEDS	9.2		2.6		6.9	
90 PERCENT EXCEEDS	0.07		0.00		0.07	

11465850 SPRING LAKE AT SANTA ROSA, CA

LOCATION.—Lat 38°27'26", long 122°38'59", [Sonoma County](#), Hydrologic Unit 18010110, 100 ft northwest of spillway, in Santa Rosa.

DRAINAGE AREA.—32.7 mi².

PERIOD OF RECORD.—October 1997 to current year.

GAGE.—Water-stage recorder. Datum of gage is NGVD of 1929.

REMARKS.—Reservoir is formed by earth-fill dam, capacity, 3,500 acre-ft. Spring Lake is a flood-control reservoir. Water is diverted from Santa Rosa Creek into Spring Lake during flood events beginning in 1965. Gage is for local flood warning and is operated seasonally from Oct. 1 to Apr. 30. Spillway elevation is 307.07 ft. Figures given represent only those days when the elevation was above 291.50 ft. See schematic diagram of [Russian River Basin](#).

NOTE: There were no days during the 2004 water year when the elevation was above 291.50 ft.

11466050 SANTA ROSA CREEK AT MISSION BOULEVARD, AT SANTA ROSA, CA

LOCATION.—Lat 38°27'28", long 122°40'16", [Sonoma County](#), Hydrologic Unit 18010110, at upstream side of bridge on Mission Boulevard, in Santa Rosa.

DRAINAGE AREA.—34.4 mi².

PERIOD OF RECORD.—November 1997 to current year.

GAGE.—Water-stage recorder. Datum of gage is NGVD of 1929.

REMARKS.—Interruptions in record were due to malfunction of the sensing and (or) recording instruments. Gage is for local flood warning and is operated seasonally from October 1 to April 30. See schematic diagram of [Russian River Basin](#).

ELEVATION ABOVE NGVD 1929, IN FEET, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	---	---	215.9	215.6	---	---	219.3	217.3	216.5	216.2	217.6	217.3
2	---	---	215.9	215.7	---	---	218.1	217.6	217.9	216.4	217.6	217.0
3	---	---	215.8	215.7	216.3	216.0	217.7	217.2	217.6	217.2	217.3	217.0
4	---	---	215.8	215.7	216.3	216.0	217.3	217.0	217.2	216.8	217.3	217.0
5	---	---	215.8	215.8	216.8	216.2	217.2	216.9	217.0	216.7	217.1	216.8
6	---	---	215.8	215.8	218.1	216.3	217.0	216.8	216.9	216.6	217.1	216.8
7	---	---	215.8	215.8	217.1	216.3	217.1	216.9	216.9	216.6	217.2	216.9
8	---	---	215.8	215.8	216.4	216.2	217.0	216.8	216.8	216.5	217.3	216.9
9	216.0	215.7	215.9	215.8	217.7	216.3	218.0	216.9	216.8	216.4	217.3	216.9
10	216.0	215.6	216.0	215.6	218.1	216.9	217.5	217.2	216.6	216.4	217.2	216.8
11	215.9	215.5	216.1	215.7	217.0	216.6	217.2	217.0	216.6	216.3	217.2	216.8
12	215.8	215.5	216.0	215.7	216.8	216.6	217.1	216.9	216.6	216.2	217.1	216.7
13	215.9	215.4	216.0	215.8	216.9	216.6	217.0	216.8	216.5	216.3	217.1	216.6
14	215.8	215.5	216.1	215.9	218.3	216.7	216.9	216.9	216.5	216.3	217.0	216.6
15	215.9	215.5	216.0	215.9	216.9	216.6	216.9	216.7	216.5	216.3	217.0	216.6
16	215.9	215.5	216.1	215.9	216.8	216.5	216.8	216.7	220.6	216.5	217.1	216.6
17	215.9	215.5	216.1	215.9	216.7	216.4	216.8	216.6	220.4	219.0	217.0	216.5
18	215.9	215.5	---	---	216.6	216.3	216.7	216.6	220.2	218.2	216.9	216.5
19	215.9	215.5	---	---	216.9	216.3	216.7	216.5	218.2	217.6	216.9	216.6
20	215.9	215.5	---	---	217.4	216.6	216.7	216.5	217.7	217.5	216.9	216.4
21	215.9	215.5	---	---	217.2	216.6	216.8	216.4	217.6	217.3	216.7	216.5
22	215.9	215.6	---	---	216.8	216.6	216.7	216.4	217.5	217.3	216.8	216.5
23	215.9	215.6	---	---	216.8	216.6	216.6	216.4	217.3	217.0	216.7	216.4
24	215.9	215.4	---	---	219.2	216.8	216.6	216.5	217.2	217.0	216.6	216.3
25	215.8	215.4	---	---	217.7	217.0	216.6	216.3	219.6	217.1	217.5	216.4
26	215.9	215.5	---	---	217.1	216.7	216.5	216.4	218.3	217.9	216.8	216.6
27	215.9	215.5	---	---	216.9	216.6	216.9	216.4	218.0	217.6	216.8	216.5
28	215.8	215.5	---	---	216.8	216.6	216.8	216.6	217.7	217.4	216.8	216.3
29	215.7	215.3	---	---	221.4	216.7	216.7	216.6	217.6	217.3	216.7	216.3
30	215.7	215.5	---	---	220.0	217.8	216.7	216.4	---	---	216.6	216.4
31	215.8	215.6	---	---	217.8	217.3	216.6	216.2	---	---	216.6	216.4
MONTH	---	---	---	---	---	---	219.3	216.2	220.6	216.2	217.6	216.3

11466065 BRUSH CREEK AT SANTA ROSA, CA

LOCATION.—Lat 38°27'18", long 122°40'45", [Sonoma County](#), Hydrologic Unit 18010110, 50 ft upstream of State Highway 12, in Santa Rosa.

DRAINAGE AREA.—10.1 mi².

PERIOD OF RECORD.—November 2002 to current year.

GAGE.—Water-stage recorder. Datum of gage is NGVD of 1929.

REMARKS.—Gage is for local flood management information and is operated seasonally from Oct. 1 to Apr. 30. Interruptions in record were due to malfunction of sensing and (or) recording instruments. See schematic diagram of [Russian River Basin](#).

STREAM ELEVATION ABOVE NGVD 1929, IN FEET, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	209.23	209.19	209.17	209.12	211.02	209.65	214.93	210.17	209.86	209.71	210.81	210.08
2	209.23	209.19	210.51	209.13	210.16	209.74	211.09	210.43	213.29	209.74	210.21	210.04
3	209.24	209.20	210.83	209.37	209.77	209.60	210.44	210.18	211.18	210.29	210.06	209.97
4	209.25	209.20	209.40	209.30	209.88	209.56	210.19	210.06	210.29	210.08	209.99	209.91
5	209.24	209.20	209.34	209.28	211.02	209.79	210.07	209.98	210.09	209.98	209.93	209.84
6	209.24	209.20	209.69	209.28	214.20	209.78	210.00	209.93	210.50	209.94	209.86	209.82
7	209.26	209.20	209.71	209.46	210.64	209.91	210.23	209.99	210.12	209.93	209.83	209.79
8	209.25	209.21	213.37	209.61	209.92	209.77	210.02	209.94	209.94	209.87	209.81	209.76
9	209.25	209.19	210.05	209.65	212.63	209.72	212.83	209.91	209.89	209.82	209.78	209.73
10	209.22	209.16	209.70	209.46	212.82	210.28	210.67	210.21	209.84	209.78	209.75	209.70
11	209.20	209.17	209.49	209.40	211.33	210.05	210.21	210.08	209.80	209.76	209.72	209.68
12	209.19	209.15	209.44	209.37	210.51	209.96	210.10	209.99	209.77	209.73	209.70	209.66
13	209.18	209.12	209.41	209.36	210.55	210.05	210.01	209.94	209.79	209.71	209.68	209.64
14	209.17	209.12	209.98	209.36	212.73	210.23	210.02	209.91	209.76	209.70	209.66	209.62
15	209.20	209.15	209.69	209.51	210.23	209.97	209.94	209.87	209.72	209.68	209.64	209.60
16	209.21	209.17	209.53	209.43	209.99	209.87	209.89	209.84	217.12	209.72	209.63	209.58
17	209.20	209.16	209.49	209.43	209.88	209.79	209.85	209.80	214.50	211.35	209.66	209.58
18	209.20	209.16	209.48	209.40	209.80	209.73	209.81	209.77	212.35	210.62	209.68	209.56
19	209.20	209.16	209.43	209.38	211.04	209.71	209.78	209.74	210.62	210.30	209.58	209.55
20	209.21	209.17	209.42	209.37	212.85	210.10	209.76	209.71	210.31	210.15	209.58	209.54
21	209.21	209.16	209.41	209.36	211.01	210.14	209.73	209.68	210.16	210.05	209.56	209.53
22	209.22	209.18	209.41	209.35	210.15	209.98	209.70	209.66	---	---	209.56	209.53
23	209.23	209.19	209.40	209.35	210.27	209.96	209.77	209.65	---	---	209.55	209.51
24	209.22	209.18	209.39	209.34	215.27	210.27	209.84	209.67	---	---	209.54	209.50
25	209.21	209.16	209.40	209.34	210.58	210.15	209.69	209.64	---	---	211.91	209.50
26	209.20	209.14	209.39	209.35	210.16	209.99	209.66	209.62	212.00	210.64	209.87	209.66
27	209.17	209.10	209.39	209.34	210.01	209.90	210.26	209.65	210.69	210.31	209.83	209.65
28	209.14	209.08	209.44	209.34	209.98	209.85	209.98	209.80	210.32	210.17	209.67	209.61
29	209.12	209.07	209.60	209.37	217.14	209.98	209.82	209.75	210.18	210.08	209.63	209.58
30	209.11	209.06	210.39	209.56	211.59	210.39	209.93	209.75	---	---	209.61	209.56
31	209.15	209.07	---	---	210.39	210.17	209.79	209.72	---	---	209.64	209.53
MONTH	209.26	209.06	213.37	209.12	217.14	209.56	214.93	209.62	---	---	211.91	209.50

11466080 SANTA ROSA CREEK AT ALDERBROOK DRIVE, AT SANTA ROSA, CA

LOCATION.—Lat 38°26'58", long 122°41'50", [Sonoma County](#), Hydrologic Unit 18010110, on upstream side of bridge on Alderbrook Drive, in Santa Rosa.

DRAINAGE AREA.—46 mi².

PERIOD OF RECORD.—October 1997 to current year.

GAGE.—Water-stage recorder. Datum of gage is NGVD of 1929.

REMARKS.—Gage is for local flood warning and is operated seasonally from October 1 to April 30. See schematic diagram of [Russian River Basin](#).

ELEVATION ABOVE NGVD 1929, IN FEET, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	170.0	169.8	170.2	169.9	170.9	170.0	176.5	171.1	170.4	170.2	171.7	171.1
2	188.6	169.8	170.2	169.9	170.4	170.1	172.3	171.6	173.3	170.3	171.2	170.8
3	170.0	169.8	170.6	169.9	170.1	169.9	171.6	171.1	172.0	171.1	171.0	170.7
4	170.0	169.9	170.0	169.8	170.1	169.9	171.1	170.9	171.1	170.8	170.8	170.6
5	170.0	169.8	169.9	169.8	170.8	170.1	171.0	170.7	170.8	170.6	170.7	170.5
6	170.0	169.8	170.1	169.8	173.8	170.1	170.8	170.6	171.0	170.6	170.6	170.4
7	170.0	169.8	170.1	169.9	171.2	170.2	171.0	170.7	170.8	170.5	170.6	170.3
8	170.0	169.8	172.8	169.9	170.2	170.0	170.7	170.6	170.7	170.5	170.5	170.3
9	170.1	169.8	170.5	170.0	172.0	170.1	173.2	170.6	170.8	170.4	170.5	170.2
10	170.1	169.8	170.2	169.9	172.8	170.7	171.5	171.0	170.6	170.4	170.5	170.1
11	170.1	169.8	170.0	169.7	171.2	170.4	171.0	170.8	170.6	170.4	170.4	170.2
12	170.1	169.8	170.0	169.7	170.6	170.3	170.8	170.7	170.6	170.4	170.4	170.1
13	170.1	169.8	169.9	169.8	170.7	170.4	170.7	170.6	170.6	170.4	170.4	170.1
14	170.1	169.8	170.1	169.8	172.8	170.6	170.7	170.6	170.5	170.4	170.3	170.1
15	170.1	169.8	170.1	169.8	170.7	170.3	170.6	170.5	170.5	170.4	170.3	170.0
16	170.1	169.9	170.0	169.8	170.4	170.2	170.6	170.5	179.6	170.4	170.3	169.9
17	170.1	169.8	169.9	169.7	170.3	170.1	170.5	170.4	176.7	173.9	170.3	170.0
18	170.1	169.9	170.0	169.8	170.2	170.0	170.5	170.4	175.7	172.6	170.3	170.0
19	170.1	169.9	170.0	169.7	171.0	170.1	170.4	170.3	172.6	171.6	170.2	170.0
20	170.1	169.8	170.0	169.8	172.3	170.4	170.4	170.3	171.7	171.3	170.2	169.9
21	170.1	169.9	170.0	169.8	171.3	170.4	170.4	170.2	171.3	171.1	170.1	170.0
22	170.1	169.9	170.0	169.8	170.5	170.3	170.3	170.2	171.3	171.0	170.3	170.0
23	170.1	169.8	170.1	169.7	170.5	170.3	170.3	170.2	171.1	170.9	170.2	170.0
24	170.1	169.8	170.0	169.8	176.4	170.5	170.4	170.2	171.0	170.8	170.1	170.0
25	170.1	169.8	170.0	169.8	171.5	170.8	170.3	170.2	177.8	170.8	171.9	170.0
26	170.1	169.8	170.0	169.8	170.8	170.5	170.3	170.2	173.0	172.0	170.4	170.1
27	170.1	169.8	170.0	169.8	170.5	170.3	170.7	170.3	172.1	171.5	170.3	170.1
28	170.1	169.8	170.0	169.9	170.4	170.3	170.6	170.3	171.5	171.2	170.3	170.0
29	170.1	169.9	170.1	169.9	180.0	170.4	170.4	170.3	171.3	171.1	170.2	170.0
30	170.1	169.9	170.5	170.1	174.8	171.8	170.5	170.3	---	---	170.1	169.9
31	170.1	169.9	---	---	171.8	171.2	170.4	170.2	---	---	170.1	170.0
MONTH	188.6	169.8	172.8	169.7	180.0	169.9	176.5	170.2	179.6	170.2	171.9	169.9

11466170 MATANZAS CREEK AT SANTA ROSA, CA

LOCATION.—Lat 38°26'20", long 122°42'05", in Cabeza de Santa Rosa Grant, [Sonoma County](#), Hydrologic Unit 18010110, on downstream side of bridge, on right bank, on Brookwood Avenue, at Santa Rosa.

DRAINAGE AREA.—21.0 mi².

PERIOD OF RECORD.—November 2002 to current year.

GAGE.—Water-stage recorder. Datum of gage is NGVD of 1929.

REMARKS.—Gage is for local flood warning and is normally operated seasonally from Oct. 1 to Apr. 30. See schematic diagram of [Russian River Basin](#).

GAGE HEIGHT, FEET, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	155.25	155.22	155.35	155.29	156.71	155.33	161.89	156.30	155.56	155.43	156.05	155.76
2	155.27	155.23	156.09	155.29	155.83	155.35	158.31	157.11	157.22	155.46	155.79	155.69
3	155.28	155.24	156.04	155.25	155.36	155.29	157.18	156.47	156.71	156.07	155.69	155.64
4	155.28	155.25	155.27	155.23	155.74	155.27	156.47	156.19	156.07	155.83	155.64	155.59
5	155.27	155.24	155.37	155.23	156.73	155.40	156.21	156.04	155.84	155.70	155.60	155.56
6	155.27	155.14	155.55	155.24	157.91	155.36	156.30	155.93	155.97	155.64	155.57	155.54
7	155.48	155.23	155.57	155.28	156.19	155.45	156.47	156.04	155.79	155.64	155.54	155.51
8	155.27	155.24	157.96	155.29	155.46	155.35	156.09	155.88	155.67	155.59	155.52	155.49
9	155.31	155.26	155.64	155.31	157.86	155.33	158.93	155.85	155.59	155.48	155.51	155.47
10	155.31	155.28	155.34	155.26	158.01	156.09	157.49	156.40	155.55	155.48	155.49	155.45
11	155.31	155.29	155.29	155.25	156.40	155.69	156.40	156.11	155.50	155.47	155.47	155.44
12	155.31	155.25	155.28	155.24	156.26	155.55	156.14	155.95	155.50	155.47	155.46	155.42
13	155.31	155.25	155.26	155.24	156.28	155.71	155.95	155.83	155.56	155.45	155.45	155.38
14	155.31	155.28	155.88	155.24	157.06	156.00	155.95	155.81	155.50	155.46	155.42	155.40
15	155.32	155.28	155.35	155.26	156.00	155.57	155.85	155.71	155.47	155.44	155.41	155.34
16	155.31	155.28	155.27	155.24	155.59	155.45	155.76	155.64	164.21	155.45	155.41	155.34
17	155.31	155.28	155.26	155.24	155.47	155.41	155.67	155.57	159.36	157.65	155.40	155.37
18	155.31	155.28	155.27	155.23	155.44	155.38	155.59	155.52	158.47	156.32	155.39	155.31
19	155.31	155.28	155.26	155.24	156.78	155.38	155.55	155.50	156.32	155.99	155.39	155.35
20	155.31	155.25	155.26	155.24	157.82	155.71	155.52	155.48	156.00	155.87	155.36	155.24
21	155.32	155.15	155.26	155.23	157.01	155.93	155.50	155.45	155.87	155.78	155.35	155.32
22	155.31	155.26	155.26	155.24	155.95	155.69	155.47	155.44	155.87	155.78	155.37	155.33
23	155.31	155.27	155.26	155.22	155.90	155.64	155.51	155.43	155.79	155.68	155.37	155.33
24	155.32	155.28	155.27	155.24	160.35	155.90	155.55	155.45	155.87	155.66	155.36	155.33
25	155.32	155.28	155.36	155.24	156.94	156.19	155.46	155.41	163.07	155.66	156.23	155.33
26	155.32	155.23	155.30	155.23	156.23	155.88	155.45	155.40	156.68	156.33	155.65	155.42
27	155.32	155.29	155.27	155.24	155.93	155.71	155.65	155.45	156.39	155.97	155.43	155.39
28	155.32	155.30	155.31	155.24	155.88	155.62	155.64	155.48	155.97	155.84	155.40	155.37
29	155.33	155.21	155.59	155.24	164.96	155.88	155.50	155.45	155.85	155.77	155.38	155.35
30	155.32	155.29	156.30	155.33	159.66	156.73	155.51	155.45	---	---	155.42	155.34
31	155.48	155.27	---	---	156.75	156.28	155.49	155.44	---	---	155.35	155.33
MONTH	155.48	155.14	157.96	155.22	164.96	155.27	161.89	155.40	164.21	155.43	156.23	155.24

11466200 SANTA ROSA CREEK AT SANTA ROSA, CA

LOCATION.—Lat 38°26'12", long 122°43'25", in Cabeza de Santa Rosa Grant, [Sonoma County](#), Hydrologic Unit 18010110, on left bank downstream side of Pierson Street Bridge in Santa Rosa.

DRAINAGE AREA.—53 mi².

PERIOD OF RECORD.—December 1939 to September 1941 and Oct. 1, 2001, to current year (seasonal).

GAGE.—Water-stage recorder and crest-stage gage. Datum of gage is 100.00 ft above NGVD of 1929.

REMARKS.—Records good. Water is diverted from Santa Rosa Creek into Spring Lake, 5.9 mi upstream, during flood events beginning in 1965. Diversions upstream from station for irrigation of about 5,000 acres. See schematic diagram of [Russian River Basin](#).

EXTREMES FOR PERIOD OF RECORD.—Maximum discharge, 9,080 ft³/s, Feb. 27, 1940, gage height, 19.2 ft from floodmarks, from rating curve extended above 5,000 ft³/s, site and datum then in use; minimum daily, no flow Dec. 1–7, 1939.

EXTREMES FOR CURRENT YEAR.—Peak discharges greater than base discharge of 2,200 ft³/s, or maximum:

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Dec. 29	1445	4,140	33.95	Feb. 25	0915	2,950	31.70
Feb. 16	1415	3,930	33.58				

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.6	3.3	63	992	33	199	18	---	---	---	---	---
2	2.9	6.2	40	435	365	150	16	---	---	---	---	---
3	2.9	32	14	239	278	106	16	---	---	---	---	---
4	3.0	5.2	13	165	136	86	17	---	---	---	---	---
5	2.6	4.4	68	127	89	72	16	---	---	---	---	---
6	2.6	7.3	233	106	79	63	15	---	---	---	---	---
7	2.8	14	84	126	74	56	15	---	---	---	---	---
8	2.5	209	24	97	55	51	15	---	---	---	---	---
9	2.6	33	54	357	47	47	14	---	---	---	---	---
10	2.4	15	326	224	41	42	14	---	---	---	---	---
11	2.6	8.2	116	146	37	39	14	---	---	---	---	---
12	2.7	6.7	53	113	34	36	14	---	---	---	---	---
13	2.5	5.3	84	91	33	34	14	---	---	---	---	---
14	2.5	9.8	286	82	32	31	14	---	---	---	---	---
15	2.5	9.4	74	72	29	29	14	---	---	---	---	---
16	2.4	6.2	39	62	1390	27	14	---	---	---	---	---
17	2.5	5.7	28	52	1490	27	15	---	---	---	---	---
18	2.5	5.5	22	42	1090	25	22	---	---	---	---	---
19	2.5	5.2	69	38	417	24	26	---	---	---	---	---
20	2.5	5.0	216	41	278	22	45	---	---	---	---	---
21	2.3	4.6	138	35	215	21	18	---	---	---	---	---
22	2.3	4.5	57	27	198	22	14	---	---	---	---	---
23	2.4	4.5	58	26	156	21	13	---	---	---	---	---
24	2.4	4.5	851	35	136	20	12	---	---	---	---	---
25	2.4	4.8	224	28	1060	90	11	---	---	---	---	---
26	2.3	4.5	103	25	521	40	10	---	---	---	---	---
27	2.3	4.2	59	55	320	31	9.5	---	---	---	---	---
28	2.3	4.4	44	48	220	25	9.1	---	---	---	---	---
29	2.3	5.5	2120	34	178	22	8.7	---	---	---	---	---
30	2.1	35	752	35	---	20	8.6	---	---	---	---	---
31	2.8	---	252	31	---	19	---	---	---	---	---	---
TOTAL	78.0	472.9	6564	3986	9031	1497	461.9	---	---	---	---	---
MEAN	2.52	15.8	212	129	311	48.3	15.4	---	---	---	---	---
MAX	3.0	209	2120	992	1490	199	45	---	---	---	---	---
MIN	2.1	3.3	13	25	29	19	8.6	---	---	---	---	---
AC-FT	155	938	13020	7910	17910	2970	916	---	---	---	---	---

11466320 SANTA ROSA CREEK AT WILLOWSIDE ROAD, NEAR SANTA ROSA, CA

LOCATION.—Lat 38°26'43", long 122°48'22", in NW 1/4 sec.13, T.7 N., R.9 W., [Sonoma County](#), Hydrologic Unit 18010110, on right bank, upstream side of Willowside Road bridge, 1.6 mi upstream of the confluence of Laguna de Santa Rosa, and 5.4 mi west of Santa Rosa.

DRAINAGE AREA.—77.6 mi².

PERIOD OF RECORD.—December 1998 to current year.

REVISED RECORDS.—WRD CA-01-2: 1999–2000 (P).

GAGE.—Water-stage and recorder. Datum of gage is NGVD of 1929.

REMARKS.—Records fair except for estimated daily discharges, which are poor. Backwater conditions from Laguna de Santa Rosa can occur during periods of heavy rainfall. Diversions upstream from station for irrigation of about 5,000 acres. See schematic diagram of [Russian River Basin](#).

EXTREMES FOR PERIOD OF RECORD.—Maximum discharge, 6,090 ft³/s, Dec. 16, 2002, gage height, 71.20 ft, Feb. 16, 2004; minimum daily, 2.2 ft³/s, Sep. 23, 2003.

EXTREMES FOR CURRENT YEAR.—Peak discharges greater than base discharge of 2,000 ft³/s, or maximum:

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Dec. 24	1000	3,180	68.81	Feb. 16	1400	4,890	71.20
Dec. 29	1415	4,700	71.00	Feb. 25	0945	3,850	69.84

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	e3.9	5.1	88	1560	59	258	26	16	8.5	5.5	4.7	4.1
2	3.8	4.5	70	699	532	171	25	15	8.2	5.7	4.8	4.3
3	3.8	41	19	325	381	126	25	15	8.1	5.6	4.7	4.1
4	3.8	9.0	15	195	161	105	26	15	8.1	5.1	4.5	3.8
5	3.8	5.9	95	148	106	91	24	14	7.9	4.8	4.1	3.4
6	3.9	6.5	350	121	95	81	23	14	7.3	4.8	3.9	3.2
7	3.9	20	136	168	96	75	24	14	6.7	4.8	3.8	3.2
8	4.0	367	35	120	74	72	24	14	6.4	5.0	3.7	3.3
9	3.9	60	62	554	65	67	22	14	7.6	4.9	3.6	3.3
10	e3.7	19	430	296	58	62	20	14	7.1	5.0	3.6	3.2
11	e3.8	11	136	169	54	59	20	13	6.7	4.9	3.7	3.2
12	3.9	9.6	57	127	51	55	20	13	6.5	4.6	3.8	3.2
13	e3.9	8.0	98	105	50	52	20	14	6.3	4.5	3.9	3.5
14	e4.0	16	358	100	50	50	20	13	6.0	4.6	4.0	3.4
15	e3.9	19	83	91	46	47	20	12	5.8	4.6	4.0	3.3
16	e3.7	10	46	82	2120	46	19	12	5.8	4.7	4.0	3.5
17	e3.7	8.5	35	75	2310	45	20	12	5.9	4.5	3.8	3.4
18	e4.0	7.9	29	67	1910	43	28	11	6.0	4.5	3.7	3.5
19	e3.9	7.6	103	62	577	42	40	11	6.0	4.3	3.9	6.5
20	4.0	7.3	419	59	317	41	75	11	6.0	4.2	4.1	8.2
21	3.9	6.9	215	51	234	39	27	11	5.7	4.2	4.3	4.1
22	3.9	6.7	71	48	219	39	23	11	5.5	4.3	4.6	3.5
23	4.0	6.7	75	46	174	38	21	11	5.5	4.3	5.3	3.4
24	4.1	6.7	1480	56	164	37	19	11	5.5	4.4	5.2	3.3
25	4.1	6.9	290	46	1570	159	18	11	5.3	4.5	4.4	3.2
26	4.0	6.9	114	43	762	57	17	11	5.1	4.3	4.1	3.2
27	4.0	6.5	75	100	415	40	17	10	5.0	4.1	4.1	3.3
28	3.9	6.8	57	74	253	35	17	10	4.9	4.3	3.9	3.4
29	3.9	8.1	2900	56	191	32	16	9.7	4.9	4.4	4.1	3.5
30	3.9	46	1360	57	---	30	16	9.5	5.3	4.5	4.1	3.6
31	6.8	---	409	51	---	28	---	8.9	---	4.5	4.1	---
TOTAL	123.8	751.1	9710	5751	13094	2122	712	381.1	189.6	144.4	128.5	112.1
MEAN	3.99	25.0	313	186	452	68.5	23.7	12.3	6.32	4.66	4.15	3.74
MAX	6.8	367	2900	1560	2310	258	75	16	8.5	5.7	5.3	8.2
MIN	3.7	4.5	15	43	46	28	16	8.9	4.9	4.1	3.6	3.2
AC-FT	246	1490	19260	11410	25970	4210	1410	756	376	286	255	222

e Estimated.

11466320 SANTA ROSA CREEK AT WILLOWSIDE ROAD, NEAR SANTA ROSA, CA—Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1999 - 2004, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	12.6	61.0	360	196	331	120	55.5	28.0	9.51	5.08	4.31	4.28
MAX	30.3	190	846	355	587	194	121	88.5	15.0	7.24	4.85	6.37
(WY)	2001	2002	2003	2002	1999	2000	2003	2003	2003	2003	2003	2000
MIN	3.23	15.8	13.3	102	70.2	68.5	17.1	8.72	6.32	3.73	4.03	3.56
(WY)	2003	2001	2000	2001	2002	2004	2002	2001	2004	2002	2002	2002

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1999 - 2004	
ANNUAL TOTAL	31789.6		33219.6			
ANNUAL MEAN	87.1		90.8		92.9	
HIGHEST ANNUAL MEAN					134 2003	
LOWEST ANNUAL MEAN					43.2 2001	
HIGHEST DAILY MEAN	2900	Dec 29	2900	Dec 29	3720	Jan 2 2002
LOWEST DAILY MEAN	2.2	Sep 23	3.2	Sep 6	2.2	Sep 23 2003
ANNUAL SEVEN-DAY MINIMUM	2.3	Sep 19	3.2	Sep 6	2.3	Sep 19 2003
MAXIMUM PEAK FLOW			4890	Feb 16	6090	Dec 16 2002
MAXIMUM PEAK STAGE			71.20	Feb 16	71.20	Feb 16 2004
ANNUAL RUNOFF (AC-FT)	63050		65890		67300	
10 PERCENT EXCEEDS	203		165		175	
50 PERCENT EXCEEDS	23		11		10	
90 PERCENT EXCEEDS	3.9		3.8		3.6	

11466500 LAGUNA DE SANTA ROSA NEAR GRATON, CA

LOCATION.—Lat 38°27'10", long 122°50'03", in Molinos Grant, [Sonoma County](#), Hydrologic Unit 18010110, on downstream side of left bank pier of highway bridge, 0.2 mi downstream from Santa Rosa Creek, and 2 mi northeast of Graton.

PERIOD OF RECORD.—February 1940 to September 1949 (contents only), October 1964 to current year.

GAGE.—Water-stage recorder. Datum of gage is NGVD of 1929 (levels by U.S. Army Corps of Engineers). Prior to Dec. 31, 1958, at site 75 ft downstream at same datum.

REMARKS.—The laguna is a natural water channel and overflow basin connecting Santa Rosa Creek, Mark West Creek, and other smaller creeks with the Russian River. During floods, directions of flow may be either to or from the Russian River, and the laguna acts as a natural regulator of floods on the lower Russian River. Figures given represent only those days when the elevation was above 55.0 ft. See schematic diagram of [Russian River Basin](#).

EXTREMES FOR PERIOD OF RECORD.—Maximum elevation, 74.6 ft, Feb. 18, 1986.

EXTREMES FOR CURRENT YEAR.—Maximum elevation recorded, 64.7 ft, February 18.

ELEVATION ABOVE NGVD 1929, FEET, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY OBSERVATION AT 2400 HOURS

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	59.8	---	55.0	---	---	---	---	---	---
2	---	---	---	58.4	55.5	---	---	---	---	---	---	---
3	---	---	---	56.6	55.8	---	---	---	---	---	---	---
4	---	---	---	55.6	55.4	---	---	---	---	---	---	---
5	---	---	---	55.1	---	---	---	---	---	---	---	---
6	---	---	55.0	---	---	---	---	---	---	---	---	---
7	---	---	---	---	---	---	---	---	---	---	---	---
8	---	---	---	---	---	---	---	---	---	---	---	---
9	---	---	---	55.8	---	---	---	---	---	---	---	---
10	---	---	55.1	55.7	---	---	---	---	---	---	---	---
11	---	---	55.0	55.3	---	---	---	---	---	---	---	---
12	---	---	---	55.0	---	---	---	---	---	---	---	---
13	---	---	---	---	---	---	---	---	---	---	---	---
14	---	---	55.1	---	---	---	---	---	---	---	---	---
15	---	---	---	---	---	---	---	---	---	---	---	---
16	---	---	---	---	61.8	---	---	---	---	---	---	---
17	---	---	---	---	63.1	---	---	---	---	---	---	---
18	---	---	---	---	63.8	---	---	---	---	---	---	---
19	---	---	---	---	59.8	---	---	---	---	---	---	---
20	---	---	55.5	---	56.9	---	---	---	---	---	---	---
21	---	---	55.3	---	55.6	---	---	---	---	---	---	---
22	---	---	55.0	---	55.1	---	---	---	---	---	---	---
23	---	---	55.0	---	---	---	---	---	---	---	---	---
24	---	---	58.1	---	---	---	---	---	---	---	---	---
25	---	---	56.8	---	59.3	---	---	---	---	---	---	---
26	---	---	55.6	---	58.4	---	---	---	---	---	---	---
27	---	---	55.1	---	e56.5	---	---	---	---	---	---	---
28	---	---	---	---	55.6	---	---	---	---	---	---	---
29	---	---	62.4	---	55.0	---	---	---	---	---	---	---
30	---	---	60.4	---	---	---	---	---	---	---	---	---
31	---	---	57.6	---	---	---	---	---	---	---	---	---
MAX	---	---	---	---	---	---	---	---	---	---	---	---
MIN	---	---	---	---	---	---	---	---	---	---	---	---

e Estimated.

11467000 RUSSIAN RIVER NEAR GUERNEVILLE, CA
(National Stream-Quality Accounting Network Station)

LOCATION.—Lat 38°30'31", long 122°55'36", in NE 1/4 SE 1/4 sec.26, T.8 N., R.10 W., [Sonoma County](#), Hydrologic Unit 18010110, on right bank, at downstream side of Hacienda Bridge, 0.1 mi upstream from Hobson Creek, and 3.8 mi east of Guerneville.

DRAINAGE AREA.—1,338 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.—October 1939 to current year. Monthly discharge only for some periods, published in WSP 1315-B. Prior to October 1954, published as "at Guerneville."

REVISED RECORDS.—WSP 1395: Drainage area at former site. WSP 1929: Drainage area.

GAGE.—Water-stage recorder. Datum of gage is 20.14 ft above NGVD of 1929. Prior to Oct. 1, 1954, nonrecording gage at bridge 5.3 mi downstream at datum 8.58 ft lower. Oct. 1, 1954, to Oct. 23, 1974, at site 0.7 mi downstream at datum 2.75 ft lower. Supplementary water-stage recorder 2.1 mi downstream used during periods of low flow, 1948–54.

REMARKS.—Records good except for estimated discharges, which are fair. Flow regulated by Lake Mendocino 77 mi upstream, beginning November 1958, and by Lake Sonoma 26 mi upstream, beginning October 1983. Many diversions upstream from station for irrigation of about 29,000 acres. Flow also affected by diversion into basin (see [REMARKS](#) for East Fork Russian River stations), and by diversion for municipal use at Wohler Pumping Plant 4.0 mi upstream beginning in May 1959. See schematic diagram of [Russian River Basin](#).

EXTREMES FOR PERIOD OF RECORD.—Maximum discharge, 102,000 ft³/s, Feb. 18, 1986, gage height, 48.56 ft, from rating curve extended above 57,000 ft³/s, maximum gage height, 49.7 ft, Dec. 23, 1955, site and datum then in use, from floodmarks; minimum daily discharge, 0.75 ft³/s, May 6, 1977.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	189	204	479	17700	1640	11300	962	456	284	211	138	121
2	188	214	1240	22600	3680	10300	926	440	260	205	137	138
3	200	227	1000	e14800	9440	8330	902	420	256	205	117	134
4	200	240	653	e12100	9960	6040	883	412	261	200	117	122
5	202	243	606	8870	7860	4530	860	407	267	205	105	124
6	192	254	988	6270	5000	3580	840	427	262	205	104	117
7	200	271	4310	4900	3690	3120	771	406	257	200	95	117
8	183	369	2010	4400	2880	2800	696	404	242	187	102	118
9	174	564	1310	5530	2520	2540	697	393	246	187	95	103
10	173	475	5390	9170	2580	2300	674	390	242	185	98	109
11	174	421	5470	6300	2550	2130	656	388	239	173	95	92
12	167	389	3240	4840	2440	1940	649	366	241	164	89	89
13	166	368	3290	4070	1990	1790	625	358	229	159	94	135
14	169	359	9740	4210	1740	1680	601	332	219	164	102	104
15	170	366	7120	4070	1630	1580	581	333	218	167	91	98
16	e169	367	3170	4270	10000	1480	576	336	219	156	101	98
17	e162	365	2210	3110	39100	1480	571	335	239	144	98	93
18	e157	350	1710	2320	60100	1380	565	328	222	147	84	89
19	e154	340	1420	2080	35600	1290	608	325	215	162	97	90
20	e182	333	2400	1920	17800	1230	790	330	216	160	108	102
21	187	327	5850	1990	14600	1180	801	326	218	159	109	113
22	178	322	3100	2180	12100	1140	760	344	217	153	123	110
23	181	318	3220	1850	9970	1100	714	321	218	157	137	117
24	e175	316	17000	1630	8500	1050	642	326	214	153	141	110
25	e172	314	16900	1550	20300	1140	595	309	207	159	134	114
26	e175	313	7490	1430	28500	1410	561	302	199	162	127	115
27	e181	310	5170	1860	20500	1290	538	296	195	160	119	119
28	e191	310	4500	2530	16000	1250	534	293	187	154	109	115
29	e178	315	17700	2390	13800	1150	522	274	172	161	102	128
30	e180	338	36100	2040	---	1070	479	286	196	166	103	122
31	e194	---	16100	1720	---	1010	---	276	---	148	117	---
TOTAL	5563	9902	190886	164700	366470	83610	20579	10939	6857	5318	3388	3356
MEAN	179	330	6158	5313	12640	2697	686	353	229	172	109	112
MAX	202	564	36100	22600	60100	11300	962	456	284	211	141	138
MIN	154	204	479	1430	1630	1010	479	274	172	144	84	89
AC-FT	11030	19640	378600	326700	726900	165800	40820	21700	13600	10550	6720	6660

e Estimated.

RUSSIAN RIVER BASIN

11467000 RUSSIAN RIVER NEAR GUERNEVILLE, CA—Continued
(National Stream-Quality Accounting Network Station)

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1940 - 2004, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	300	1140	4127	6858	6934	4505	2231	750	307	180	168	182
MAX	2515	9425	17410	25220	26940	23290	11700	2798	1418	350	308	344
(WY)	1963	1974	1956	1995	1998	1983	1982	1983	1998	1998	1961	1961
MIN	25.3	140	116	127	88.2	201	48.2	39.0	22.6	32.0	36.7	35.9
(WY)	1978	1940	1977	1977	1977	1977	1977	1977	1977	1977	1977	1977

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR	FOR 2004 WATER YEAR	WATER YEARS 1940 - 2004
ANNUAL TOTAL	807484	871568	
ANNUAL MEAN	2212	2381	2287
HIGHEST ANNUAL MEAN			5898 1983
LOWEST ANNUAL MEAN			88.7 1977
HIGHEST DAILY MEAN	36100	Dec 30	60100 Feb 18
LOWEST DAILY MEAN	151	Sep 25	84 Aug 18
ANNUAL SEVEN-DAY MINIMUM	164	Oct 13	94 Aug 12
MAXIMUM PEAK FLOW			63400 Feb 18
MAXIMUM PEAK STAGE			38.17 Feb 18
ANNUAL RUNOFF (AC-FT)	1602000	1729000	1657000
10 PERCENT EXCEEDS	6170	6110	5540
50 PERCENT EXCEEDS	629	332	359
90 PERCENT EXCEEDS	183	115	140

11467000 RUSSIAN RIVER NEAR GUERNEVILLE, CA—Continued
(National Stream-Quality Accounting Network Station)

WATER-QUALITY RECORDS

PERIOD OF RECORD.—Water years 1951 to September 1995, January 2002 to current year.

CHEMICAL DATA: Water years 1951–95. Published as "at Guerneville" in 1961–65.

BIOLOGICAL DATA: Water years 1975–81.

DISSOLVED OXYGEN: Water years 2002 to current year.

pH: Water years 2002 to current year.

SPECIFIC CONDUCTANCE: Water years 1974–81, 2002 to current year.

WATER TEMPERATURE: Water years 1964–82, 2002 to current year.

TURBIDITY: Water years 1967–95, 2002 to current year.

SEDIMENT DATA: Water years 1966–95.

PERIOD OF DAILY RECORD.—

DISSOLVED OXYGEN: January 2002 to current year.

pH: January 2002 to current year.

SPECIFIC CONDUCTANCE: October 1973 to September 1981, January 2002 to current year.

WATER TEMPERATURE: January 1964 to September 1982, January 2002 to current year.

TURBIDITY: January 2002 to current year.

SEDIMENT DATA: October 1969 to September 1986.

INSTRUMENTATION.—Water-quality monitor since January 2002. Specific conductance recorder from October 1973 to September 1981, at site 0.7 mi downstream. Temperature recorder from January 1964 to September 1981. Electronic datalogger with 15 minute interval.

REMARKS.—Dissolved oxygen records are rated excellent except for Oct. 13–15, 31, Feb. 22–26, Mar. 12–15, Apr. 8–13, 16, July 28, Aug. 27–30 which are rated good, Oct. 16–18, Nov. 1, 2, Feb. 27 to Mar. 3, Apr. 17, July 29–31, which are rated fair, and Oct. 19–24, Nov. 3, Apr. 18–22, and Aug. 1, which are rated poor. pH records are rated excellent except for Dec. 31 to Jan. 12, Jan. 29 to Feb. 17, May 28 to June 7, Aug. 19–31, and Sept. 13–27, which are rated good, and Aug. 2–7, which are rated poor. Specific conductance records are rated excellent except for Dec. 21–25, Jan. 6–12, Jan. 29 to Feb. 7, which are rated good, and Dec. 26–29, Feb. 8–17, which are rated fair. Temperature records are rated excellent. Turbidity records are rated good except for Nov. 4–20, Dec. 6–17, May 29 to June 7, and July 7–18, which are rated fair. Interruptions in record are due to malfunction of recording and (or) sensing equipment.

EXTREMES FOR PERIOD OF DAILY RECORD.—

DISSOLVED OXYGEN: Maximum recorded, 15.1 mg/L, Oct. 5, 2002; minimum recorded, 6.0 mg/L, Sept. 25, 2003.

pH: Maximum recorded, 8.8 standard units, Aug. 28, 2002; minimum recorded, 7.2 standard units, Feb. 22, Dec. 15, 17–19, 2002, Mar. 12, 13, 2004.

SPECIFIC CONDUCTANCE: Maximum recorded, 605 microsiemens, Feb. 19, 20, 1977; minimum recorded, 57 microsiemens, Nov. 4, 1973.

WATER TEMPERATURES: Maximum recorded, 29.5°C, June 26, 1973; minimum recorded, 4.5°C, Dec. 15, 1967, Jan. 12, 1968.

TURBIDITY: Maximum recorded, >1,200 FNU, several days in December 2003 and February 2004; minimum recorded, 0.4 FNU, Oct. 27, Nov. 1, 2003.

SEDIMENT CONCENTRATIONS (water years 1970–82): Maximum daily mean, 2,350 mg/L, Jan. 16, 1974; minimum daily mean, 2 mg/L, Dec. 12, 27, 1978, Nov. 15, 16, 25, 26, 1980.

SEDIMENT DISCHARGE (water years 1970–81): Maximum daily, 316,000 tons, Jan. 16, 1974; minimum daily, 0.03 ton, May 6, 1977.

EXTREMES FOR CURRENT YEAR.—

DISSOLVED OXYGEN: Maximum recorded, 13.1 mg/L, Nov. 27; minimum recorded, 7.6 mg/L, Aug. 9.

pH: Maximum recorded, 8.7 standard units, June 22–24; minimum recorded, 7.2 standard units, Mar. 12, 13.

SPECIFIC CONDUCTANCE: Maximum recorded, 291 microsiemens, Apr. 8; minimum recorded, 94 microsiemens, Feb. 17, 18.

WATER TEMPERATURES: Maximum recorded, 26.8°C, July 21; minimum recorded, 8.4°C, Dec. 28.

TURBIDITY: Maximum recorded, >1,200 FNU, several days in December and February; minimum recorded, 0.4 FNU, Oct. 27, Nov. 1.

> Actual value is known to be greater than value shown.

RUSSIAN RIVER BASIN

11467000 RUSSIAN RIVER NEAR GUERNEVILLE, CA—Continued

(National Stream-Quality Accounting Network Station)

DISSOLVED OXYGEN, WATER, UNFILTERED, MILLIGRAMS PER LITER

WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	11.6	8.9	10.6	9.3	10.9	10.5	10.3	9.3	10.9	10.6	10.3	10.0
2	11.7	9.0	10.7	9.5	---	---	10.4	9.9	11.1	10.7	10.2	10.0
3	12.0	9.3	11.1	9.5	---	---	10.5	9.9	11.3	11.0	10.1	---
4	11.8	9.4	10.5	9.5	---	---	10.6	10.4	11.2	10.9	---	---
5	11.9	9.6	10.6	9.6	---	---	10.6	10.2	11.2	10.9	---	9.4
6	11.9	9.6	10.4	9.5	9.4	8.9	10.3	9.9	11.1	10.9	9.6	9.4
7	11.8	9.4	10.0	9.3	9.5	9.0	10.0	9.9	11.2	10.9	9.5	9.2
8	11.7	9.2	9.5	9.0	9.6	9.3	---	---	11.2	10.9	9.5	9.2
9	11.8	9.2	9.3	8.5	9.7	9.4	---	---	11.3	11.0	9.4	9.1
10	11.7	9.4	9.5	9.2	10.2	9.6	---	---	11.4	11.1	9.4	9.1
11	12.1	9.8	9.6	9.3	10.2	10.0	---	---	11.5	11.1	9.5	9.1
12	12.2	9.8	9.6	9.4	10.1	9.7	10.6	---	11.5	11.0	9.5	9.1
13	11.9	9.7	9.6	9.4	10.3	9.7	10.8	10.5	11.2	11.0	9.4	9.2
14	11.8	9.5	9.7	9.4	10.3	10.0	10.9	10.8	11.1	10.8	9.6	9.2
15	11.8	9.4	9.8	9.4	10.5	10.2	11.0	10.7	10.8	10.6	9.6	9.2
16	11.6	9.6	10.2	9.6	10.3	10.1	11.2	10.9	11.2	10.7	9.5	9.2
17	11.4	9.3	10.3	9.7	10.2	9.9	11.0	10.5	10.9	10.3	9.6	9.2
18	11.3	9.2	10.3	9.7	10.0	9.8	10.6	10.4	10.4	10.0	9.5	9.1
19	11.3	9.1	10.6	9.9	9.9	9.8	10.6	10.4	10.0	9.5	9.7	9.2
20	11.0	9.0	10.7	9.9	10.2	9.8	10.5	10.3	10.2	9.5	9.9	9.3
21	10.8	9.1	11.2	10.1	10.1	9.7	---	10.4	10.3	10.1	9.8	9.2
22	10.8	8.9	12.0	10.6	9.7	9.4	---	---	10.3	10.1	10.0	9.2
23	10.7	8.7	12.7	11.5	9.9	9.3	---	10.3	10.5	10.2	10.1	9.2
24	10.6	9.0	12.9	11.7	10.0	9.7	10.3	10.1	10.3	10.1	10.4	9.3
25	10.6	9.0	12.9	11.4	9.7	9.5	10.5	10.1	10.5	10.2	10.2	9.4
26	10.7	9.1	12.8	11.3	9.6	9.4	10.6	10.4	10.2	10.1	10.6	9.7
27	10.3	9.1	13.1	11.5	10.3	9.5	10.6	10.4	10.3	10.1	10.6	9.8
28	10.4	8.8	12.4	11.2	10.4	10.1	11.2	10.6	10.5	10.1	10.6	9.5
29	10.3	8.9	11.7	10.8	10.6	10.2	11.2	10.9	10.4	10.2	10.4	9.3
30	10.3	8.9	11.4	10.8	10.2	9.4	11.0	10.6	---	---	10.4	9.1
31	10.3	9.1	---	---	9.5	9.3	10.9	10.6	---	---	10.7	9.4
MONTH	12.2	8.7	13.1	8.5	---	---	---	---	11.5	9.5	---	---
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	10.7	9.1	10.6	8.7	9.4	8.2	10.1	8.2	10.0	7.8	9.9	8.3
2	10.8	9.1	10.2	8.4	9.3	8.2	10.2	8.2	9.4	7.8	10.1	8.4
3	10.9	9.0	10.0	8.3	9.4	8.1	10.0	8.0	9.3	8.1	10.2	8.4
4	11.0	9.0	10.0	8.1	9.6	8.3	9.7	7.9	9.5	8.2	10.0	8.5
5	11.1	9.3	10.1	8.2	9.6	8.3	10.1	8.0	9.2	8.0	10.4	8.7
6	11.6	9.6	10.1	8.5	9.3	8.2	9.5	8.0	9.2	8.1	10.3	8.4
7	11.5	9.3	10.2	8.7	9.4	8.2	9.4	7.9	9.0	7.8	10.7	8.6
8	11.0	9.7	10.7	9.1	9.4	8.3	9.7	8.0	9.2	7.8	10.9	8.4
9	10.9	9.5	10.6	9.0	---	8.3	9.5	8.0	9.3	7.6	11.1	8.3
10	10.9	9.2	10.6	8.8	---	---	10.2	8.2	9.3	7.8	11.2	8.2
11	10.9	9.2	10.4	8.9	---	---	10.2	8.2	9.5	7.8	10.7	8.2
12	11.1	9.5	10.2	8.7	---	---	10.2	8.2	9.5	7.8	10.7	8.4
13	10.9	9.3	10.1	8.5	---	---	10.0	7.9	9.7	8.0	---	8.2
14	10.5	9.4	10.1	8.3	---	---	10.3	7.8	9.8	8.0	---	---
15	10.8	9.4	10.1	8.3	---	---	10.4	8.2	10.5	8.3	---	---
16	10.7	9.3	10.0	8.1	---	---	10.4	8.4	10.5	8.2	---	---
17	11.2	9.3	10.1	8.2	---	---	10.1	8.4	10.3	8.0	---	---
18	11.8	10.2	10.2	8.3	---	---	10.2	8.3	9.8	8.0	---	---
19	11.9	10.7	10.3	8.5	---	---	10.1	8.5	9.8	7.9	---	---
20	11.6	10.7	10.3	8.2	---	---	9.8	7.9	9.8	8.0	---	---
21	11.2	10.4	10.1	8.5	---	---	9.8	7.9	9.8	8.0	---	---
22	---	9.7	10.2	8.6	---	---	9.8	8.0	10.1	8.1	---	---
23	---	---	10.1	8.3	10.8	---	10.0	8.1	10.4	8.3	---	---
24	---	---	---	8.2	10.8	8.2	10.1	8.0	11.0	8.1	---	---
25	---	---	---	---	10.7	8.2	10.3	8.2	11.0	8.2	---	---
26	10.5	---	---	---	10.3	8.0	10.2	8.0	10.9	8.0	---	---
27	10.0	8.3	---	---	10.1	8.0	10.4	8.0	10.9	8.0	10.1	---
28	10.2	8.5	9.8	---	9.9	8.0	10.5	7.8	10.9	7.9	10.0	8.2
29	10.4	8.4	9.8	8.5	9.6	7.7	10.2	8.1	11.0	7.8	10.0	8.3
30	10.5	8.8	9.7	8.5	9.8	8.1	10.6	8.2	11.2	7.9	10.0	8.4
31	---	---	9.5	8.3	---	---	10.4	7.9	9.8	8.1	---	---
MONTH	---	---	---	---	---	---	10.6	7.8	11.2	7.6	---	---

11467000 RUSSIAN RIVER NEAR GUERNEVILLE, CA—Continued
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PH, WATER, UNFILTERED, FIELD, STANDARD UNITS, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	8.4	7.9	8.3	8.0	8.0	7.9	7.6	7.5	7.8	7.8	7.7	7.7
2	8.4	7.9	8.4	8.0	7.9	7.8	7.6	7.4	7.8	7.5	7.7	7.7
3	8.4	7.9	8.3	7.9	7.9	7.8	7.6	7.4	7.5	7.5	7.7	7.6
4	8.4	7.9	8.1	7.8	---	---	7.6	7.6	7.5	7.5	---	---
5	8.4	7.9	8.1	7.9	---	---	7.6	7.5	7.6	7.5	---	---
6	8.4	7.9	8.1	7.9	7.9	7.6	7.5	7.4	7.5	7.5	7.6	7.6
7	8.4	7.9	8.0	7.8	7.8	7.7	7.5	7.4	7.5	7.4	7.6	7.6
8	8.4	7.9	7.8	7.7	7.7	7.7	7.4	7.4	7.4	7.4	7.7	7.6
9	8.4	7.9	7.7	7.6	7.8	7.7	7.5	7.4	7.4	7.3	7.6	7.4
10	8.4	7.9	7.7	7.7	7.8	7.5	7.5	7.4	7.3	7.3	7.4	7.3
11	8.4	7.9	7.8	7.7	7.7	7.7	7.4	7.4	7.4	7.3	7.3	7.3
12	8.4	7.8	7.7	7.7	7.7	7.6	7.4	7.4	7.4	7.3	7.3	7.2
13	8.4	7.9	7.7	7.6	7.8	7.6	7.4	7.4	7.4	7.3	7.6	7.2
14	8.4	7.8	7.7	7.7	7.8	7.6	7.5	7.4	7.4	7.3	7.6	7.5
15	8.4	7.8	7.8	7.7	7.8	7.7	7.5	7.4	7.4	7.4	7.7	7.6
16	8.3	7.8	7.9	7.8	7.7	7.7	7.5	7.5	7.5	7.4	7.7	7.7
17	8.3	7.8	7.9	7.8	7.7	7.6	7.5	7.4	7.7	7.5	7.8	7.7
18	8.3	7.8	7.9	7.8	7.7	7.6	7.5	7.4	7.6	7.5	7.8	7.7
19	8.3	7.8	8.0	7.7	7.7	7.7	7.5	7.5	7.6	7.4	7.8	7.8
20	8.3	7.8	8.1	7.8	7.8	7.6	7.5	7.5	7.6	7.5	7.8	7.8
21	8.3	7.8	8.3	8.0	7.6	7.5	7.5	7.5	7.7	7.6	7.8	7.8
22	8.3	7.8	8.3	8.1	7.6	7.6	7.6	7.5	7.7	7.6	7.8	7.8
23	8.2	7.7	8.3	8.1	7.6	7.6	7.6	7.4	7.7	7.7	7.9	7.8
24	8.4	7.7	8.3	8.1	7.6	7.4	7.7	7.6	7.7	7.7	7.9	7.8
25	8.4	8.0	8.4	8.1	7.5	7.4	7.7	7.7	7.8	7.6	7.8	7.6
26	8.4	8.0	8.4	8.1	7.4	7.4	7.7	7.7	7.7	7.6	7.8	7.6
27	8.3	8.0	8.5	8.1	7.4	7.4	7.8	7.7	7.7	7.6	7.8	7.7
28	8.4	8.0	8.4	8.0	7.4	7.4	7.8	7.7	7.7	7.6	7.9	7.7
29	8.3	8.0	8.1	8.0	7.4	7.4	7.9	7.7	7.7	7.7	7.9	7.7
30	8.3	8.0	8.1	7.9	7.5	7.4	7.8	7.8	---	---	7.9	7.7
31	8.3	8.0	---	---	7.5	7.4	7.8	7.8	---	---	8.0	7.8
MONTH	8.4	7.7	8.5	7.6	---	---	7.9	7.4	7.8	7.3	---	---
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	8.0	7.9	8.0	7.8	8.1	7.9	8.5	8.0	8.2	7.9	8.5	8.0
2	8.1	7.9	8.0	7.8	8.2	7.9	8.6	8.1	8.3	7.8	8.5	8.0
3	8.1	7.9	8.0	7.8	8.3	8.0	8.6	8.2	8.3	8.0	8.4	8.0
4	8.1	7.8	8.0	7.8	8.3	8.1	8.5	8.2	8.4	8.0	8.4	8.0
5	8.1	7.8	8.0	7.8	8.2	8.0	8.6	8.2	8.3	8.0	8.4	7.9
6	8.1	7.9	8.0	7.8	8.1	7.9	8.6	8.2	8.3	8.1	8.3	7.9
7	8.1	7.8	8.0	7.8	8.2	8.0	8.4	8.1	8.2	8.1	8.4	7.9
8	8.0	7.9	8.0	7.8	8.1	8.0	8.4	8.0	8.2	8.0	8.3	8.0
9	8.0	7.9	8.0	7.8	8.2	7.9	8.3	8.0	8.2	8.1	8.3	7.9
10	8.1	7.9	8.0	7.8	8.2	8.0	8.4	8.0	8.2	8.0	8.3	7.9
11	8.1	7.9	8.1	7.9	8.2	8.0	8.5	8.0	8.2	8.0	8.2	8.0
12	8.1	7.9	8.1	7.9	8.2	8.0	8.6	8.1	8.4	8.0	8.2	8.0
13	8.2	7.9	8.1	7.9	8.2	8.0	8.5	8.0	8.3	8.1	8.5	8.0
14	8.2	8.0	8.1	7.9	8.2	8.0	8.5	8.0	8.2	8.0	8.3	8.0
15	8.2	8.0	8.2	8.0	8.2	8.0	8.5	8.0	8.2	8.0	8.2	8.0
16	8.1	8.0	8.2	7.9	8.3	8.0	8.5	8.0	8.2	7.9	8.2	8.0
17	8.1	8.0	8.2	7.7	8.3	8.0	8.4	8.0	8.3	7.9	8.2	8.0
18	8.1	8.0	8.1	7.7	8.3	8.0	8.4	8.0	8.2	7.9	8.2	8.0
19	8.0	7.9	8.2	7.8	8.4	8.0	8.4	8.0	8.3	7.8	8.2	8.0
20	8.0	7.8	8.1	7.6	8.5	8.0	8.4	8.0	8.3	7.9	8.4	8.0
21	8.1	8.0	8.2	7.7	8.6	8.1	8.4	8.0	8.2	7.9	8.4	8.0
22	8.1	7.9	8.1	7.8	8.7	8.1	8.4	8.0	8.2	7.9	8.4	8.0
23	8.1	7.9	8.1	7.8	8.7	8.1	8.3	8.0	8.3	7.9	8.4	8.0
24	8.1	7.9	8.2	7.8	8.7	8.1	8.3	8.0	8.5	7.9	8.4	8.0
25	8.1	7.9	8.2	8.0	8.6	8.1	8.3	7.9	8.5	8.0	8.4	8.0
26	8.1	7.9	8.2	8.0	8.6	8.0	8.3	7.9	8.4	7.9	8.4	8.0
27	8.1	7.9	8.2	8.0	8.6	8.1	8.3	8.0	8.4	7.9	8.4	8.0
28	8.0	7.9	8.1	8.0	8.6	8.1	8.3	7.9	8.3	7.9	8.4	8.0
29	8.0	7.9	8.1	8.0	8.4	8.0	8.3	7.9	8.4	8.1	8.3	8.0
30	8.0	7.8	8.1	8.0	8.5	8.0	8.3	7.9	8.4	8.1	8.3	8.0
31	---	---	8.1	8.0	---	---	8.3	7.8	8.4	8.0	---	---
MONTH	8.2	7.8	8.2	7.6	8.7	7.9	8.6	7.8	8.5	7.8	8.5	7.9

11467000 RUSSIAN RIVER NEAR GUERNEVILLE, CA—Continued
 (National Stream-Quality Accounting Network Station)

 SPECIFIC CONDUCTANCE, WATER, UNFILTERED, MICROSIEMENS PER CENTIMETER AT 25 DEGREES CELSIUS
 WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	242	236	234	228	280	225	172	114	259	255	184	175
2	236	234	235	227	248	205	152	110	257	183	185	182
3	235	231	270	225	238	231	162	152	184	170	205	184
4	233	230	283	242	---	246	171	162	184	174	---	205
5	235	232	242	229	267	---	191	170	191	183	241	---
6	235	233	229	226	265	219	208	191	206	191	251	242
7	235	234	236	225	230	196	216	208	220	206	255	251
8	242	235	254	231	232	201	221	216	225	219	261	255
9	238	232	241	200	256	232	222	175	231	224	265	260
10	235	232	253	211	254	184	181	171	224	219	268	265
11	235	233	252	244	191	182	215	181	219	216	272	268
12	235	233	245	239	221	189	223	215	223	215	278	272
13	235	232	254	243	234	187	227	214	237	223	278	276
14	236	232	263	254	187	161	217	213	250	237	278	277
15	236	232	270	262	192	159	224	207	250	249	282	276
16	238	231	268	259	227	192	214	205	250	111	282	280
17	234	228	263	259	243	227	248	214	111	94	283	278
18	230	228	267	263	258	243	263	248	110	94	285	272
19	231	228	268	261	264	257	267	263	154	110	286	279
20	230	229	264	259	268	184	270	266	168	154	285	283
21	233	228	264	256	199	166	266	245	178	168	285	284
22	238	233	256	252	252	199	247	239	181	178	285	283
23	234	229	253	250	263	210	255	246	193	181	286	283
24	234	231	251	248	210	133	271	255	198	192	284	283
25	235	233	250	247	174	140	271	269	196	105	290	257
26	235	233	254	248	214	174	271	268	141	113	266	251
27	235	233	249	246	219	213	273	242	155	140	265	262
28	236	232	248	245	215	214	242	211	164	155	274	264
29	239	233	247	245	214	102	224	210	175	164	277	273
30	234	228	252	245	139	97	248	224	---	---	281	277
31	231	228	---	---	169	139	259	248	---	---	283	280
MONTH	242	228	283	200	---	---	273	110	259	94	---	---
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	281	280	286	280	267	262	238	235	235	232	236	227
2	281	280	288	280	269	261	239	236	236	232	236	229
3	281	278	288	281	266	259	240	236	241	233	234	221
4	278	277	288	281	265	257	240	237	248	240	231	222
5	278	276	286	280	261	254	240	236	249	243	225	223
6	278	275	283	278	264	255	239	228	244	242	227	224
7	281	275	282	278	259	252	236	228	246	243	228	223
8	291	275	282	278	260	250	236	234	244	241	229	222
9	281	276	284	278	256	252	239	235	244	240	229	224
10	281	280	283	277	258	250	243	239	244	241	228	223
11	282	280	282	277	275	249	248	243	245	240	232	227
12	281	279	284	276	255	248	250	246	249	243	230	228
13	282	279	282	276	256	247	247	245	245	238	230	222
14	286	282	286	276	255	248	249	246	239	235	240	222
15	285	281	284	276	254	247	248	244	243	238	241	237
16	282	279	282	275	255	249	246	244	244	239	241	233
17	282	279	279	274	250	241	247	243	241	238	234	229
18	280	278	278	272	246	241	246	242	242	238	234	228
19	285	277	280	272	246	241	247	233	242	231	231	229
20	285	249	277	271	246	241	235	232	233	230	229	227
21	272	259	276	270	245	241	240	234	230	224	240	228
22	272	263	275	269	246	241	235	231	226	223	241	238
23	269	264	275	267	245	242	233	231	227	224	241	230
24	277	268	270	263	243	240	232	229	229	225	232	230
25	282	277	268	262	245	239	232	229	236	228	231	224
26	290	278	270	263	247	241	233	230	235	232	228	224
27	290	272	271	264	246	240	233	231	234	231	230	223
28	275	271	271	265	245	239	235	232	235	232	224	222
29	274	270	273	264	245	234	234	228	236	232	229	223
30	283	270	271	264	241	236	231	229	233	228	228	225
31	---	---	272	262	---	---	233	230	229	227	---	---
MONTH	291	249	288	262	275	234	250	228	249	223	241	221

11467000 RUSSIAN RIVER NEAR GUERNEVILLE, CA—Continued
 (National Stream-Quality Accounting Network Station)

TEMPERATURE, WATER, DEGREES CELSIUS, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	19.9	18.0	13.9	12.5	12.3	11.6	10.6	10.2	10.6	10.4	11.7	11.1
2	18.8	17.5	12.8	11.5	12.9	12.3	10.2	9.4	10.4	9.9	11.9	10.9
3	18.8	16.9	13.1	11.5	13.1	12.6	9.6	8.9	10.3	9.4	11.8	10.9
4	19.2	17.3	13.3	11.6	13.0	12.4	9.3	8.5	10.9	9.9	12.3	11.0
5	19.6	17.1	13.4	12.2	13.1	12.5	9.7	8.8	10.9	9.9	12.6	---
6	20.1	17.3	13.8	12.9	13.5	13.1	10.2	9.6	10.6	9.8	13.6	12.2
7	20.4	17.6	14.1	13.5	13.3	12.2	10.6	10.2	10.6	9.6	14.3	12.9
8	20.5	17.8	14.1	13.7	12.2	11.1	11.2	10.6	10.5	9.4	14.9	13.4
9	19.8	17.8	14.3	13.8	11.1	10.6	11.1	10.5	10.6	9.4	15.7	14.2
10	18.9	16.6	14.2	13.5	10.8	10.0	11.1	10.5	10.7	9.6	15.9	14.7
11	18.2	15.5	14.0	13.0	10.8	10.2	11.7	11.1	10.6	9.5	15.6	14.4
12	18.5	15.7	13.8	12.9	10.4	10.0	11.6	11.2	10.8	9.6	15.8	14.3
13	18.7	15.8	13.2	12.7	11.2	10.3	11.8	11.4	10.6	9.9	16.2	14.8
14	18.5	15.9	13.2	12.6	11.2	10.8	11.6	11.2	11.6	10.3	16.5	15.0
15	18.0	15.7	13.6	12.9	10.8	9.5	12.1	11.4	11.9	11.5	16.8	15.4
16	18.0	15.6	13.4	12.8	9.8	9.3	11.7	11.1	11.9	10.9	17.0	15.5
17	18.0	15.8	13.8	12.8	9.8	9.4	11.8	11.0	12.0	11.4	17.1	15.4
18	17.8	15.7	14.0	13.0	9.8	9.2	12.2	11.7	12.1	11.8	17.1	15.6
19	17.7	15.6	13.7	12.8	9.9	9.8	12.4	11.9	12.2	11.5	16.8	15.4
20	17.9	15.6	13.8	12.7	10.4	9.8	12.5	12.0	11.8	11.1	16.7	14.8
21	18.3	15.8	13.0	11.6	10.8	10.2	12.1	11.2	11.2	10.8	17.1	15.6
22	18.3	16.4	11.6	10.4	10.9	10.5	11.2	10.2	11.2	10.8	16.9	15.4
23	18.2	16.3	10.7	9.8	10.8	10.6	10.6	9.8	11.6	10.7	17.1	15.5
24	17.9	15.6	10.4	9.5	11.3	10.8	11.8	10.6	12.0	11.3	16.5	14.9
25	17.5	15.4	10.5	9.4	11.2	10.6	11.3	10.5	11.9	11.2	15.6	13.4
26	17.4	15.3	10.8	9.7	10.6	9.5	10.8	10.4	11.5	11.1	13.4	12.5
27	17.6	15.4	11.0	10.0	9.6	8.5	11.1	10.6	11.4	10.6	15.4	13.0
28	17.6	15.5	11.0	10.3	9.1	8.4	10.8	9.8	11.4	10.6	16.2	14.3
29	17.2	15.4	11.5	10.9	9.9	9.0	10.3	9.8	11.4	10.6	16.9	14.9
30	16.0	14.5	11.9	11.4	10.5	9.8	11.3	10.3	---	---	16.5	15.4
31	14.5	13.1	---	---	10.6	10.2	11.0	10.1	---	---	16.0	14.1
MONTH	20.5	13.1	14.3	9.4	13.5	8.4	12.5	8.5	12.2	9.4	17.1	---
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	15.9	13.8	20.2	18.5	24.0	20.7	22.4	19.7	22.8	20.6	23.9	20.7
2	16.3	14.2	21.2	19.0	24.5	21.1	23.9	19.8	22.2	20.3	24.0	20.4
3	16.7	14.5	22.2	20.0	23.8	21.0	24.7	20.6	22.5	19.4	23.2	20.0
4	16.4	15.1	22.1	20.3	23.5	20.4	25.0	21.4	23.8	20.1	21.9	19.4
5	15.9	14.5	21.2	19.6	23.8	20.4	25.2	21.5	24.0	20.7	22.7	19.2
6	16.0	13.6	20.3	18.9	23.9	20.8	25.0	21.9	24.6	21.0	23.1	19.6
7	16.9	14.4	19.3	18.4	23.1	20.4	23.5	21.7	25.2	21.8	23.3	19.9
8	17.0	15.5	19.1	17.4	22.3	19.3	22.8	20.7	25.3	22.1	23.5	20.0
9	17.5	16.3	20.2	18.1	22.3	18.7	21.6	19.9	24.9	22.3	23.6	20.4
10	18.1	16.9	20.1	18.4	22.8	19.3	22.4	18.9	25.1	22.2	23.0	20.1
11	17.8	16.9	19.6	18.0	23.1	19.7	24.1	19.6	25.4	21.9	23.5	20.5
12	17.5	16.4	20.0	17.7	23.6	19.9	24.6	20.3	24.7	22.4	23.4	20.8
13	17.4	16.4	20.8	18.4	24.1	20.3	24.5	21.0	24.2	21.9	23.1	20.3
14	16.6	15.7	21.2	18.9	24.6	20.7	24.4	20.8	22.7	20.9	23.1	19.6
15	16.0	15.0	21.6	19.2	25.4	21.2	25.0	20.7	23.4	20.8	23.2	20.2
16	15.5	14.8	21.6	19.5	25.2	21.9	25.4	21.3	23.9	20.2	23.2	20.6
17	15.0	14.0	20.9	19.0	22.9	20.4	24.7	21.6	24.7	21.1	22.9	20.4
18	15.0	14.2	20.6	18.5	21.5	19.4	25.5	22.0	25.1	21.8	21.8	20.1
19	14.3	13.8	21.5	19.0	22.7	19.5	25.8	22.4	24.0	21.7	20.4	18.8
20	15.2	13.7	21.2	19.2	24.0	20.2	26.4	22.3	23.5	21.1	19.9	17.0
21	16.7	14.9	20.4	18.9	24.5	20.6	26.8	22.5	22.5	20.6	19.4	16.6
22	16.8	15.2	20.5	18.8	24.7	20.8	26.4	22.7	22.0	20.2	19.8	16.8
23	18.0	15.9	21.3	18.4	24.1	20.9	25.4	22.3	23.1	20.0	20.0	17.2
24	18.9	17.2	21.6	19.2	24.3	20.7	24.3	21.9	23.7	20.2	20.3	17.5
25	19.7	18.1	21.0	19.5	24.9	20.9	25.0	21.5	24.0	20.4	20.4	17.6
26	20.7	18.8	20.9	19.1	25.4	21.4	25.6	21.7	24.3	20.7	20.5	17.7
27	21.0	19.2	21.3	19.3	25.5	21.4	25.3	21.9	24.4	21.1	20.0	17.6
28	20.5	19.3	21.7	19.6	24.9	21.5	24.3	21.6	24.4	21.1	19.3	18.3
29	20.0	18.7	22.2	19.0	23.5	20.9	23.4	20.9	24.4	21.5	18.7	17.8
30	20.0	18.3	22.8	19.3	21.6	20.3	23.4	20.5	24.3	21.7	18.5	17.3
31	---	---	23.4	20.1	---	---	23.5	20.6	24.0	21.1	---	---
MONTH	21.0	13.6	23.4	17.4	25.5	18.7	26.8	18.9	25.4	19.4	24.0	16.6

11467000 RUSSIAN RIVER NEAR GUERNEVILLE, CA—Continued
 (National Stream-Quality Accounting Network Station)

 TURBIDITY, WATER, MONOCHROME NEAR INFRA-RED LED LIGHT, 780-900 NM, DETECTION ANGLE 90 +/- 2.5 DEGREES, FNU
 WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	---	---	2.2	0.4	15	2.1	1050	180	21	14	190	120
2	---	---	2.6	0.5	130	15	1060	230	880	14	150	110
3	---	---	4.5	0.9	110	20	280	180	890	210	130	98
4	---	---	6.9	2.9	40	7.9	210	170	360	150	---	---
5	---	---	5.6	1.6	16	5.9	210	140	180	110	---	---
6	---	---	3.6	1.0	360	6.6	150	100	130	87	75	51
7	---	---	5.4	1.2	>1200	180	110	84	100	58	62	43
8	---	---	15	3.3	290	55	88	58	68	44	49	34
9	---	---	61	13	61	24	300	60	50	35	42	30
10	4.3	1.5	66	23	870	58	400	140	47	32	36	26
11	6.0	1.4	64	8.8	330	130	170	72	44	32	38	25
12	6.7	1.2	11	4.4	150	59	73	58	40	30	36	22
13	8.8	1.4	6.6	2.6	600	47	81	52	38	23	31	19
14	7.7	1.3	6.2	2.5	>1200	260	87	58	27	18	28	18
15	8.8	1.3	7.1	2.5	880	140	100	52	26	17	24	16
16	7.9	1.5	5.1	2.2	150	62	99	81	1010	19	21	15
17	8.1	1.7	5.1	2.5	70	36	86	49	>1200	680	19	15
18	7.8	1.7	6.4	2.2	44	26	55	36	>1200	540	23	13
19	6.0	1.7	4.8	2.0	31	18	42	30	690	260	18	10
20	6.5	1.8	4.2	1.6	260	24	36	25	610	200	18	8.9
21	9.1	1.8	4.7	1.4	440	96	42	25	230	160	14	8.4
22	8.1	1.7	3.3	1.1	99	36	43	31	180	120	12	7.6
23	9.5	1.8	3.4	0.9	150	28	35	21	150	110	13	6.5
24	8.4	1.0	4.0	0.9	>1200	140	26	18	170	99	11	6.6
25	4.0	0.9	3.2	0.8	1030	190	24	16	>1200	130	45	6.5
26	3.5	0.8	2.4	1.0	230	110	19	12	>1200	360	44	20
27	4.0	0.4	3.4	0.7	120	80	46	13	790	210	24	10
28	2.3	0.6	3.8	0.8	110	79	86	40	310	200	14	7.9
29	2.5	0.7	7.1	1.3	>1200	80	91	42	230	140	12	6.5
30	2.8	0.7	9.2	1.8	>1200	280	43	23	---	---	11	6.0
31	1.9	0.5	---	---	340	190	29	17	---	---	12	4.7
MONTH	---	---	66	0.4	>1200	2.1	1060	12	>1200	14	---	---
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	8.2	4.7	8.4	3.1	6.7	2.1	8.9	2.9	9.9	1.2	---	---
2	9.9	4.6	6.9	3.0	8.1	2.1	7.3	2.2	9.0	1.4	---	---
3	7.9	4.3	7.0	3.1	7.3	1.4	8.8	3.4	8.8	3.7	---	---
4	7.7	4.3	7.0	3.3	4.7	2.0	8.5	2.5	8.5	2.6	---	---
5	7.4	3.7	8.6	3.0	6.0	1.7	9.9	2.9	8.4	2.4	---	---
6	7.8	4.1	8.1	3.1	6.9	1.6	8.0	2.3	8.0	3.1	---	---
7	9.8	4.2	8.9	2.8	8.0	1.8	6.2	2.3	8.2	3.7	---	---
8	10	4.7	8.2	3.1	5.3	2.1	7.5	2.2	8.6	3.8	---	---
9	8.4	3.9	8.3	3.1	6.6	1.8	5.5	2.3	8.4	3.2	---	---
10	8.2	3.7	10	3.2	7.8	2.2	5.1	2.1	6.2	2.8	---	---
11	6.5	3.7	6.9	3.2	6.5	2.4	5.1	2.1	8.4	2.2	---	---
12	5.9	3.4	7.4	2.7	5.4	2.8	5.8	2.0	9.5	2.4	---	---
13	6.9	3.3	8.2	3.2	5.5	2.4	6.9	2.1	9.6	3.0	---	---
14	6.8	3.1	6.4	3.5	7.4	3.3	6.9	2.3	7.4	2.9	9.8	2.4
15	5.4	3.1	8.7	3.1	---	---	6.7	2.1	6.6	2.8	9.9	2.5
16	5.5	2.9	5.8	3.1	---	---	7.0	2.1	8.8	2.2	7.9	2.3
17	5.4	2.9	7.7	3.5	---	---	6.7	2.9	9.2	3.0	7.9	2.0
18	5.9	2.9	7.7	3.7	---	---	6.5	3.2	9.4	2.3	9.0	2.4
19	5.8	3.0	9.2	3.1	---	---	6.8	1.1	8.5	2.4	9.8	2.7
20	12	4.6	8.3	3.1	6.9	3.0	9.6	2.3	9.7	3.1	9.9	2.2
21	8.6	4.5	7.7	3.1	6.3	2.9	9.7	2.3	9.8	2.0	9.8	2.4
22	7.7	4.3	6.1	3.1	7.1	2.5	9.9	2.1	9.9	2.0	9.8	2.3
23	6.9	4.2	6.1	3.1	6.2	2.7	9.4	2.3	9.8	2.0	9.7	2.3
24	8.4	3.5	8.2	2.8	8.4	2.8	9.4	2.4	11	2.0	8.1	2.1
25	6.7	3.2	7.4	2.4	8.6	3.1	9.7	2.0	10	2.5	9.6	2.6
26	7.0	3.4	6.9	2.9	8.8	3.2	9.6	2.1	11	2.0	9.1	2.0
27	7.0	3.4	7.1	2.9	8.6	3.4	9.5	2.0	12	2.2	9.5	1.5
28	8.1	4.0	8.0	3.0	9.9	2.8	9.6	2.1	11	2.6	4.7	1.6
29	8.1	4.0	9.1	3.4	9.8	3.3	9.3	2.6	12	2.9	5.9	1.5
30	7.0	3.7	8.3	2.8	8.2	3.2	9.8	2.1	7.1	2.7	6.0	1.5
31	---	---	7.8	2.5	---	---	9.9	2.0	---	---	---	---
MONTH	12	2.9	10	2.4	---	---	9.9	1.1	---	---	---	---

> Actual value is known to be greater than the value shown.

11467000 RUSSIAN RIVER NEAR GUERNEVILLE, CA—Continued

(National Stream-Quality Accounting Network Station)

CROSS SECTION ANALYSES, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Time	Depth at sample location, feet (81903)	Turb- idity, IR LED light, det ang 90 deg, FNU (63680)	Baro- metric pres- sure, mm Hg (00025)	Dis- solved oxygen, mg/L (00300)	Dis- solved oxygen, percent of sat- uration (00301)	pH, water, unfltrd field, std units (00400)	Specif. conduc- tance, wat unf uS/cm 25 degC (00095)	Temper- ature, deg C (00010)	Loca- tion in X-sect. looking dwnstrm ft from l bank (00009)
NOV										
05...*	1347	2.25	3.0	762	10.6	101	8.1	232	13.3	4.00
05...*	1348	2.85	2.7	762	10.6	101	8.1	232	13.3	10.0
05...*	1349	2.78	2.9	762	10.6	101	8.1	232	13.3	16.0
05...*	1350	2.55	3.1	762	10.5	100	8.1	232	13.2	22.0
05...*	1351	2.45	3.2	762	10.5	100	8.1	232	13.2	28.0
05...*	1352	2.38	2.9	762	10.5	101	8.1	232	13.3	34.0
05...*	1353	2.17	2.7	762	10.5	101	8.2	231	13.3	40.0
05...*	1354	1.97	2.7	762	10.5	101	8.1	232	13.3	46.0
05...*	1355	1.45	3.1	762	10.5	101	8.1	232	13.3	52.0
05...*	1356	.70	2.8	762	10.4	100	8.1	232	13.4	58.0
MAY										
27...*	1130	2.92	6.4	761	9.2	101	7.8	267	19.9	4.00
27...*	1131	3.43	6.0	761	9.2	101	7.8	267	19.9	9.00
27...*	1132	3.25	6.5	761	9.1	100	7.8	267	19.9	14.0
27...*	1133	3.17	6.3	761	9.1	100	7.8	267	19.8	19.0
27...*	1134	3.23	6.7	761	9.1	100	7.8	266	19.9	24.0
27...*	1135	3.06	8.7	761	9.1	100	7.8	266	19.9	29.0
27...*	1136	2.84	8.9	761	9.1	100	7.8	267	19.9	34.0
27...*	1137	2.56	9.2	761	9.2	101	7.8	266	20.0	39.0
27...*	1138	2.08	8.4	761	9.2	101	7.8	267	20.0	44.0
27...*	1139	1.47	6.2	761	9.2	101	7.8	266	20.0	49.0

* Instantaneous discharge at time of cross-sectional measurements: Nov. 5, 227 ft³/s; May 27, 290 ft³/s.

11467002 RUSSIAN RIVER AT JOHNSONS BEACH, AT GUERNEVILLE, CA

LOCATION.—Lat 38°30'03", long 122°59'36", in NE 1/4 NW 1/4 sec.32, T.8 N., R.10 W., [Sonoma County](#), Hydrologic Unit 18010110, on downstream side of old Highway 116 bridge, 0.1 mi upstream from Pocket Creek, in Guerneville.

DRAINAGE AREA.—1,353 mi².

PERIOD OF RECORD.—December 1939 to September 1954, published as "at Guerneville" (station 11467000). Oct. 13, 1995, to current year, stage only above 5.61 ft.

GAGE.—Water-stage recorder. Datum of gage is 8.79 ft above NGVD of 1929.

REMARKS.—Interruptions in record when above 5.61 ft were due to malfunction of the sensing and (or) recording instruments. Stage data for the period June 1 to September 30 are affected by summer recreation dam. Flow regulated by Lake Mendocino, 82 mi upstream, and by Lake Sonoma, 31 mi upstream. Many diversions upstream from station for irrigation of about 29,000 acres. Flow also affected by diversion into basin (see REMARKS for East Fork Russian River stations [11461500](#) and [11462000](#)) and by diversion for municipal use. See schematic diagram of [Russian River Basin](#).

EXTREMES FOR PERIOD OUTSIDE OF RECORD.—Maximum elevation, 48.8 ft, Feb. 18, 1986.

EXTREMES FOR PERIOD OF RECORD.—Maximum elevation, 46.87 ft, Feb. 28, 1940.

GAGE HEIGHT, FEET, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	---	---	---	---	---	---	23.38	14.96	6.99	6.89	15.77	14.80
2	---	---	---	---	6.62	---	23.57	18.14	---	6.93	14.80	13.90
3	---	---	---	---	6.28	---	18.14	16.55	---	---	13.90	11.99
4	---	---	---	---	---	---	16.55	14.85	---	---	11.99	10.68
5	---	---	---	---	---	---	14.85	12.05	---	---	10.68	9.60
6	---	---	---	---	7.36	---	12.05	10.58	---	9.85	9.60	8.99
7	---	---	---	---	10.64	7.36	10.58	10.11	9.84	8.99	8.99	8.65
8	---	---	---	---	8.68	6.83	10.12	9.75	8.99	8.40	8.66	8.34
9	---	---	---	---	7.16	6.33	13.51	9.61	8.41	8.11	8.34	8.05
10	---	---	---	---	11.60	7.16	14.18	12.42	8.32	8.25	8.05	7.80
11	---	---	---	---	11.32	10.14	12.42	10.78	8.27	8.22	7.81	7.55
12	---	---	---	---	10.14	8.47	10.78	9.89	8.25	7.85	7.55	7.33
13	---	---	---	---	10.82	8.42	9.89	9.48	7.85	7.29	7.33	7.17
14	---	---	---	---	15.51	10.82	9.83	9.65	7.29	7.05	7.17	7.03
15	---	---	---	---	15.05	9.76	9.91	9.41	7.05	6.95	7.03	6.89
16	---	---	---	---	9.76	8.24	9.89	9.53	23.95	7.01	6.90	6.76
17	---	---	---	---	8.24	7.42	9.53	8.16	32.53	23.95	6.93	6.72
18	---	---	---	---	7.42	6.90	8.17	7.70	35.76	32.53	6.76	6.60
19	---	---	---	---	6.90	6.64	7.71	7.41	33.72	21.57	6.60	6.47
20	---	---	---	---	10.06	6.74	7.42	7.24	21.57	18.01	6.47	6.37
21	---	---	---	---	11.80	9.70	7.60	7.33	18.04	16.17	6.38	6.30
22	---	---	---	---	9.70	8.25	7.88	7.60	16.17	15.09	6.30	6.24
23	---	---	---	---	10.50	7.98	7.60	6.98	15.10	13.32	6.24	6.17
24	---	---	---	---	22.51	10.50	6.98	6.89	13.32	13.00	6.17	6.09
25	---	---	---	---	22.42	14.31	6.90	6.73	25.58	12.99	6.86	6.07
26	---	---	---	---	14.31	10.91	6.74	6.60	25.76	22.28	6.86	6.69
27	---	---	---	---	10.91	10.23	7.86	6.62	22.28	18.45	6.69	6.52
28	---	---	---	---	10.23	9.64	8.39	7.86	18.45	17.63	6.53	6.44
29	---	---	---	---	27.20	9.66	8.31	7.92	17.63	15.77	6.44	6.25
30	---	---	---	---	28.62	22.82	7.92	7.25	---	---	6.25	6.13
31	---	---	---	---	22.82	15.50	7.25	6.99	---	---	6.13	6.03
MONTH	---	---	---	---	---	---	23.57	6.60	---	---	15.77	6.03

11467002 RUSSIAN RIVER AT JOHNSONS BEACH, AT GUERNEVILLE, CA—Continued

GAGE HEIGHT, FEET, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	6.03	5.94	---	---	---	---	8.39	8.28	8.29	8.25	8.42	8.39
2	5.95	5.87	---	---	---	---	8.39	8.36	8.28	8.24	8.47	8.41
3	5.88	5.84	---	---	---	---	8.39	8.33	8.28	8.14	8.47	8.40
4	5.85	5.80	---	---	---	---	8.41	8.36	8.21	8.19	8.43	8.40
5	5.80	5.76	---	---	---	---	8.40	8.37	8.21	8.12	8.41	8.33
6	5.77	5.73	---	---	---	---	8.40	8.37	8.18	8.12	---	---
7	5.73	---	---	---	---	---	8.40	8.37	8.13	8.08	---	---
8	---	---	---	---	---	---	8.38	8.34	8.15	8.08	---	---
9	---	---	---	---	---	---	8.36	8.30	8.15	8.07	---	---
10	---	---	---	---	---	---	8.30	8.22	8.31	8.07	---	---
11	---	---	---	---	---	---	8.22	---	8.34	8.30	---	---
12	---	---	---	---	---	---	---	---	8.33	8.25	---	---
13	---	---	---	---	---	---	---	---	8.35	8.31	---	---
14	---	---	---	---	---	---	---	---	8.40	8.35	---	---
15	---	---	---	---	8.02	---	---	---	8.37	8.30	---	---
16	---	---	---	---	8.33	8.02	8.35	8.25	8.40	8.35	---	---
17	---	---	---	---	8.43	8.29	8.29	8.23	8.43	8.35	---	---
18	---	---	---	---	8.44	8.26	8.28	8.24	8.35	8.31	---	---
19	---	---	---	---	8.40	8.27	8.36	8.25	8.39	8.35	---	---
20	5.88	---	---	---	8.41	8.27	8.36	8.26	8.38	8.35	---	---
21	5.87	5.68	---	---	8.42	8.27	8.35	8.26	8.38	8.34	---	---
22	5.82	---	---	---	8.42	8.22	8.35	8.24	8.42	8.37	---	---
23	5.73	---	---	---	8.38	8.21	8.34	8.28	8.45	8.42	---	---
24	---	---	---	---	8.38	8.21	8.30	8.27	8.46	8.44	---	---
25	---	---	---	---	8.37	8.17	8.34	8.29	8.45	8.39	---	---
26	---	---	---	---	8.36	8.16	8.33	8.30	8.43	8.40	---	---
27	---	---	---	---	8.33	8.17	8.32	8.30	8.41	8.37	---	---
28	---	---	---	---	8.35	8.14	8.32	8.27	8.38	8.34	---	---
29	---	---	---	---	8.23	8.13	8.34	8.29	8.35	8.32	---	---
30	---	---	---	---	8.29	8.20	8.35	8.31	8.36	8.32	---	---
31	---	---	---	---	---	---	8.35	8.27	8.41	8.36	---	---
MONTH	---	---	---	---	---	---	---	---	8.46	8.07	---	---

11467200 AUSTIN CREEK NEAR CAZADERO, CA

LOCATION.—Lat 38°30'24", long 123°04'07", in NE 1/4 SW 1/4 sec.27, T.8 N., R.11 W., [Sonoma County](#), Hydrologic Unit 18010110, on right bank, upstream side of Austin Creek Road bridge, 0.25 mi downstream of confluence with East Austin Creek, and 1.7 mi southeast of Cazadero.

DRAINAGE AREA.—62.8 mi².

PERIOD OF RECORD.—May 1959 to September 1966, and Oct. 1, 2003, to Sept. 30, 2004.

GAGE.—Water-stage recorder and crest-stage gage. Datum of gage is 68.55 ft above NGVD of 1929.

REMARKS.—Records good. No regulation or diversion upstream from station.

EXTREMES FOR PERIOD OF RECORD.—Maximum discharge, 15,100 ft³/s, Feb. 13, 1962, maximum gage height, 18.97 ft, Dec. 29, 2003; no flow, Aug. 19 to Sept. 17, 1959, Sept. 30, 1966.

EXTREMES FOR CURRENT YEAR.—Peak discharges greater than base discharge of 4000 ft³/s, or maximum:

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Dec. 6	1645	4,400	11.40	Jan. 1	0930	10,600	16.59
Dec. 14	0315	5,610	12.44	Feb. 16	1345	11,600	17.49
Dec. 24	0645	11,600	17.47	Feb. 25	0745	7,100	13.75
Dec. 29	1145	13,400	18.97				

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.9	1.6	239	3820	80	411	48	30	12	6.1	2.8	0.99
2	2.0	2.0	220	1370	1090	328	46	30	11	5.9	3.0	1.1
3	2.1	3.4	56	645	802	274	45	30	11	5.5	3.0	0.93
4	2.2	3.3	39	394	432	240	43	29	11	5.2	2.9	0.81
5	2.2	2.5	140	274	288	224	41	29	10	5.1	2.6	0.72
6	2.1	2.6	1100	192	226	207	41	29	9.8	5.0	2.3	0.44
7	2.0	3.3	346	259	211	180	40	29	9.6	4.8	2.3	0.40
8	1.9	54	121	486	176	169	38	29	9.5	5.0	2.3	0.41
9	1.7	43	326	1250	139	157	37	27	9.9	5.6	2.1	0.33
10	1.5	16	1010	864	105	143	36	25	9.6	5.9	2.1	0.25
11	1.4	9.7	410	454	93	134	35	25	9.6	5.5	2.1	0.17
12	1.6	7.5	247	310	84	131	35	25	9.2	4.8	2.0	0.13
13	1.6	6.4	600	238	84	120	34	24	8.7	4.5	1.9	0.05
14	1.7	7.6	2060	197	80	111	35	23	8.3	4.2	1.9	0.00
15	1.7	18	443	162	75	108	36	22	8.1	4.1	2.0	0.00
16	1.6	15	263	134	3890	103	35	21	7.8	3.9	1.9	0.00
17	1.6	11	191	115	5850	95	34	21	7.9	3.7	1.7	0.00
18	1.7	9.0	149	101	2820	97	34	20	8.3	3.4	1.6	0.00
19	1.7	8.0	150	91	1120	76	58	20	8.2	3.3	1.5	0.00
20	1.8	7.4	287	83	592	66	105	19	7.8	3.2	1.5	0.00
21	1.8	6.7	334	76	399	58	58	18	7.4	3.1	1.5	0.42
22	1.8	6.2	237	71	311	60	49	18	7.0	3.0	1.5	0.65
23	1.7	6.1	588	67	249	63	42	18	6.7	2.8	1.6	0.36
24	1.7	5.9	4590	69	312	58	40	18	6.6	2.9	1.6	0.07
25	1.7	5.8	853	61	2770	94	38	17	6.4	3.0	1.5	0.00
26	1.5	5.7	349	58	1180	72	36	17	5.9	2.9	1.3	0.00
27	1.5	5.6	208	169	697	69	34	16	5.6	2.8	1.4	0.04
28	1.5	5.8	159	116	468	60	33	15	5.6	2.7	1.3	0.08
29	1.5	7.1	5880	92	371	56	32	15	5.7	2.8	1.2	0.19
30	1.4	13	1460	85	---	53	31	14	6.0	2.9	0.98	0.56
31	1.4	---	532	76	---	50	---	13	---	2.9	0.90	---
TOTAL	53.5	299.2	23587	12379	24994	4067	1249	686	250.2	126.5	58.28	9.10
MEAN	1.73	9.97	761	399	862	131	41.6	22.1	8.34	4.08	1.88	0.30
MAX	2.2	54	5880	3820	5850	411	105	30	12	6.1	3.0	1.1
MIN	1.4	1.6	39	58	75	50	31	13	5.6	2.7	0.90	0.00
AC-FT	106	593	46780	24550	49580	8070	2480	1360	496	251	116	18

11467200 AUSTIN CREEK NEAR CAZADERO, CA—Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1959 - 2004, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	25.8	129	364	444	605	287	163	37.3	12.2	3.70	1.46	3.18
MAX	159	394	972	831	1133	622	577	86.6	26.8	10.2	3.84	22.2
(WY)	1963	1964	1965	1966	1962	1960	1963	1963	1963	1963	1963	1959
MIN	0.52	3.55	9.74	139	89.4	61.9	24.7	13.6	5.32	1.64	0.34	0.19
(WY)	1966	1960	1960	1962	1964	1964	1964	1964	1959	1961	1959	1965

SUMMARY STATISTICS

FOR 2004 WATER YEAR

WATER YEARS 1959 - 2004

ANNUAL TOTAL	67758.78		
ANNUAL MEAN	185		171
HIGHEST ANNUAL MEAN			222
LOWEST ANNUAL MEAN			85.2
HIGHEST DAILY MEAN	5880	Dec 29	7970
LOWEST DAILY MEAN	0.00	Sep 14	0.00
ANNUAL SEVEN-DAY MINIMUM	0.00	Sep 14	0.00
MAXIMUM PEAK FLOW	13400	Dec 29	15100
MAXIMUM PEAK STAGE	18.97	Dec 29	18.97
ANNUAL RUNOFF (AC-FT)	134400		123800
10 PERCENT EXCEEDS	347		347
50 PERCENT EXCEEDS	16		23
90 PERCENT EXCEEDS	1.4		0.90

11467295 SOUTH FORK GUALALA RIVER ABOVE WHEATFIELD FORK, NEAR ANNAPOLIS, CA

LOCATION.—Lat 38°41'39", long 123°24'33", in SW 1/4 sec. 15, T.10 N., R.14 W., Sonoma County, Hydrologic Unit 18010109, on right bank, 0.8 mi upstream of confluence with Wheatfield Fork Gualala River, and 2.9 mi southwest of Annapolis.

DRAINAGE AREA.—48.2 mi².

PERIOD OF RECORD.—November 2000 to September 2001, October 2003 to September 2004.

WATER TEMPERATURE: Water year 2001.

GAGE.—Water stage recorder and crest stage gage. Elevation of gage is 75 ft above NGVD of 1929, from topographic map.

REMARKS.—No regulation or diversions above gage.

COOPERATION.—Records collected by California Department of Water Resources, under general supervision of the U. S. Geological Survey.

EXTREMES FOR PERIOD OF RECORD.—Maximum discharge, 8,950 ft³/s, Dec. 24, 2003, gage height, 16.24 ft, from rating curve extended above 4,000 ft³/s; no flow for parts of most years.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.3	0.57	35	2370	112	340	40	21	6.3	2.5	0.81	0.04
2	1.5	1.3	256	860	741	288	37	20	5.9	2.5	1.0	0.03
3	1.8	2.3	96	427	954	226	34	19	5.4	2.7	1.1	0.02
4	1.8	1.9	45	259	637	189	32	18	5.1	2.5	1.1	0.02
5	1.8	1.8	94	185	408	160	30	17	5.0	2.2	1.0	0.01
6	1.8	1.4	618	144	300	138	29	16	4.8	2.0	0.90	0.00
7	1.8	2.1	464	155	251	122	27	16	4.8	1.9	0.94	0.00
8	1.8	15	171	262	197	109	26	17	4.8	1.9	0.85	0.00
9	2.1	26	203	1030	163	98	25	15	4.7	2.0	0.78	0.00
10	2.7	17	655	755	138	89	24	14	4.4	2.1	0.79	0.00
11	2.8	10	452	400	119	80	23	13	4.4	2.2	0.67	0.00
12	2.9	5.0	336	277	105	74	22	13	4.3	2.1	0.62	0.00
13	2.8	3.0	835	208	99	68	21	12	4.3	2.0	0.54	0.00
14	2.6	3.9	1690	171	106	63	22	12	4.1	1.8	0.60	0.00
15	2.4	7.0	393	147	103	58	23	11	3.8	1.7	0.59	0.00
16	2.2	21	203	121	2580	53	21	10	3.6	1.5	0.49	0.00
17	2.0	16	130	102	3520	50	20	10	3.5	1.4	0.42	0.00
18	1.9	10	90	88	1780	47	20	9.8	3.5	1.3	0.34	0.00
19	1.8	7.5	71	76	694	44	25	9.7	3.6	1.1	0.26	0.00
20	1.7	5.5	168	67	407	41	194	9.4	3.8	1.1	0.23	0.00
21	1.6	3.9	280	58	274	39	130	9.3	3.8	0.98	0.29	0.00
22	1.5	3.1	159	49	211	38	94	9.1	3.6	0.84	0.33	0.00
23	1.4	2.4	348	44	167	36	65	8.9	3.4	0.84	0.29	0.00
24	0.92	1.9	3340	55	246	34	50	8.6	3.2	0.91	0.27	0.00
25	0.29	2.0	619	46	1960	61	41	8.1	3.0	0.90	0.21	0.00
26	0.08	1.9	221	40	859	99	35	8.0	2.9	0.82	0.15	0.00
27	0.08	1.9	110	426	564	105	30	8.0	2.6	0.82	0.10	0.00
28	0.10	2.0	72	322	377	79	27	8.0	2.4	0.88	0.08	0.00
29	0.31	3.4	2640	191	286	60	25	7.6	2.3	0.90	0.08	0.00
30	0.27	6.6	913	155	---	51	22	7.0	2.3	0.95	0.06	0.00
31	0.26	---	375	125	---	44	---	6.6	---	0.88	0.05	---
TOTAL	48.31	187.37	16082	9615	18358	2983	1214	372.1	119.6	48.22	15.94	0.12
MEAN	1.56	6.25	519	310	633	96.2	40.5	12.0	3.99	1.56	0.51	0.00
MAX	2.9	26	3340	2370	3520	340	194	21	6.3	2.7	1.1	0.04
MIN	0.08	0.57	35	40	99	34	20	6.6	2.3	0.82	0.05	0.00
AC-FT	96	372	31900	19070	36410	5920	2410	738	237	96	32	0.2

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2001 - 2004, BY WATER YEAR (WY)

	2001	2002	2003	2004	2001	2002	2003	2004	2001	2002	2003	2004
MEAN	1.56	6.25	264	192	476	151	147	42.9	13.6	6.00	3.22	2.27
MAX	1.56	6.25	519	310	633	203	381	111	33.6	14.8	9.06	6.80
(WY)	2004	2004	2004	2004	2004	2003	2003	2003	2003	2003	2003	2003
MIN	1.56	6.25	8.53	74.4	314	96.2	18.9	6.18	3.14	1.56	0.09	0.00
(WY)	2004	2004	2001	2001	2001	2004	2001	2001	2001	2004	2001	2001

SUMMARY STATISTICS

FOR 2004 WATER YEAR

WATER YEARS 2001 - 2004

ANNUAL TOTAL	49043.66	
ANNUAL MEAN	134	134
HIGHEST ANNUAL MEAN		134
LOWEST ANNUAL MEAN		134
HIGHEST DAILY MEAN	3520	3520
LOWEST DAILY MEAN	0.00	0.00
ANNUAL SEVEN-DAY MINIMUM	0.00	0.00
MAXIMUM PEAK FLOW	8950	8950
MAXIMUM PEAK STAGE	16.24	16.24
ANNUAL RUNOFF (AC-FT)	97280	97080
10 PERCENT EXCEEDS	307	307
50 PERCENT EXCEEDS	8.4	8.4
90 PERCENT EXCEEDS	0.09	0.09

11468000 NAVARRO RIVER NEAR NAVARRO, CA

LOCATION.—Lat 39°10'14", long 123°40'01", in SE 1/4 sec.7, T.15 N., R.16 W., Mendocino County, Hydrologic Unit 18010108, on left bank, 2.8 mi downstream from North Fork, 5.3 mi upstream from mouth, and 6.7 mi west of Navarro.

DRAINAGE AREA.—303 mi².

PERIOD OF RECORD.—October 1950 to current year.

CHEMICAL ANALYSIS: Water years 1959–66, 1973–79.

WATER TEMPERATURE: Water years 1965–79, 1999–2003.

SEDIMENT DATA: Water years 1999–2003.

REVISED RECORDS.—WSP 1445: 1954(M). WSP 1929: Drainage area.

GAGE.—Water-stage recorder and crest-stage gage. Datum of gage is 4.79 ft above NGVD of 1929. Prior to Oct. 1, 1969, at site 0.1 mi upstream at datum 0.14 ft lower. Oct. 1, 1969 to Sep. 30, 1998, at site 0.1 mi downstream at datum 2.00 ft lower.

REMARKS.—Records good except for estimated daily discharges, which are fair. Minor diversion upstream from station at discharges above 200 ft³/s for irrigation.

EXTREMES FOR PERIOD OF RECORD.—Maximum discharge, 64,500 ft³/s, Dec. 22, 1955, gage height, 40.60 ft, site and datum then in use, from rating curve extended above 19,000 ft³/s, on basis of slope-area measurement of peak flow; minimum daily, 0.23 ft³/s, July 13, 1977.

EXTREMES OUTSIDE PERIOD OF RECORD.—Flood of December 1937 reached a stage of 38.2 ft, from floodmarks.

EXTREMES FOR CURRENT YEAR.—Peak discharges greater than base discharge of 7,000 ft³/s, or maximum:

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Dec. 29	1630	11,600	22.59	Feb. 25	1430	11,100	22.07
Feb. 17	2215	32,000	32.51				

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.9	7.7	50	5070	371	1770	172	84	37	15	5.1	3.6
2	7.7	7.8	269	3810	1140	1480	163	78	36	14	4.7	3.7
3	7.5	9.9	194	2370	3130	1200	156	76	34	13	4.7	3.5
4	7.2	11	105	1590	2680	1030	150	76	32	13	4.6	3.5
5	7.6	12	86	1170	1740	887	144	e71	30	13	4.5	3.0
6	7.7	13	442	921	1250	772	140	e69	29	12	4.6	2.6
7	8.4	13	1020	806	1050	687	136	e67	27	12	4.6	2.5
8	8.1	17	366	765	841	613	131	e69	27	11	4.6	2.4
9	7.7	85	214	1240	712	539	127	e67	28	10	4.5	2.5
10	7.5	99	1250	1730	607	481	123	e64	27	9.6	4.2	e2.4
11	7.5	48	1270	1200	519	434	118	e62	27	9.9	3.9	e2.4
12	7.5	33	743	959	452	393	112	e60	26	10	4.7	e2.3
13	7.6	27	1640	804	398	362	110	61	25	9.9	4.8	e2.2
14	7.9	25	3430	709	370	328	111	58	25	9.5	4.8	e2.2
15	7.8	29	1390	681	534	295	118	57	24	9.4	4.7	e2.3
16	7.8	42	754	592	3020	275	120	55	24	8.7	4.6	e2.4
17	7.9	40	501	515	17000	259	126	55	23	8.1	4.2	e2.6
18	7.6	33	365	455	13300	244	120	55	21	7.9	4.6	e11
19	7.4	29	291	405	4580	230	119	54	21	7.7	4.7	e9.2
20	7.9	27	457	366	2890	218	145	52	20	7.9	4.3	e4.1
21	8.2	25	377	329	2060	208	171	51	20	7.6	4.3	3.7
22	7.8	23	306	295	1640	199	162	51	20	7.6	4.2	3.2
23	7.5	22	282	273	1380	193	140	51	19	7.5	4.5	2.9
24	7.0	21	2900	312	1400	183	125	49	18	6.9	4.4	2.5
25	6.8	21	2220	293	5780	198	117	48	17	6.7	3.8	2.9
26	7.0	21	1250	262	6670	314	108	46	17	6.4	3.6	2.7
27	7.3	21	832	285	4680	276	100	44	16	6.0	3.6	3.0
28	7.7	22	619	437	3010	253	94	43	15	6.2	3.5	3.2
29	7.7	26	5880	397	2160	221	91	42	15	5.9	3.0	3.2
30	7.8	36	4170	401	---	202	87	40	16	5.6	2.9	3.7
31	7.8	---	2030	392	---	188	---	38	---	5.6	2.9	---
TOTAL	236.8	846.4	35703	29834	85364	14932	3836	1793	716	283.6	132.1	101.4
MEAN	7.64	28.2	1152	962	2944	482	128	57.8	23.9	9.15	4.26	3.38
MAX	8.4	99	5880	5070	17000	1770	172	84	37	15	5.1	11
MIN	6.8	7.7	50	262	370	183	87	38	15	5.6	2.9	2.2
AC-FT	470	1680	70820	59180	169300	29620	7610	3560	1420	563	262	201

e Estimated.

NAVARRO RIVER BASIN

11468000 NAVARRO RIVER NEAR NAVARRO, CA—Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1951 - 2004, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	36.9	255	993	1661	1510	1045	486	145	53.6	21.1	11.2	9.83
MAX	367	2033	4396	6496	5546	4280	2517	645	261	74.0	31.7	32.6
(WY)	1958	1974	1965	1995	1998	1983	1982	2003	1998	1998	1998	1957
MIN	2.39	9.06	18.5	24.0	58.6	69.8	34.2	14.1	4.23	0.62	0.67	1.33
(WY)	2003	1991	1977	1991	1977	1988	1977	1977	1977	1977	1977	1991

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1951 - 2004	
ANNUAL TOTAL	178925.1		173778.3			
ANNUAL MEAN	490		475		515	
HIGHEST ANNUAL MEAN					1310	
LOWEST ANNUAL MEAN					25.0	
HIGHEST DAILY MEAN	6400	Apr 29	17000	Feb 17	45100	Jan 16 1974
LOWEST DAILY MEAN	6.8	Sep 27	2.2	Sep 13	0.23	Jul 13 1977
ANNUAL SEVEN-DAY MINIMUM	7.2	Sep 23	2.3	Sep 10	0.28	Jul 8 1977
MAXIMUM PEAK FLOW			32000	Feb 17	64500	Dec 22 1955
MAXIMUM PEAK STAGE			32.51	Feb 17	40.60	Dec 22 1955
ANNUAL RUNOFF (AC-FT)	354900		344700		373000	
10 PERCENT EXCEEDS	1310		1240		1230	
50 PERCENT EXCEEDS	121		42		60	
90 PERCENT EXCEEDS	7.9		4.2		7.4	

11468092 BIG RIVER BELOW TWO LOG CREEK, NEAR COMPTCHE, CA

LOCATION.—Lat 39°19'06", long 123°36'49", in NW 1/4 sec. SE 1/4 sec. 23, T.17 N., R.16 W., Mendocino County, Hydrologic Unit 18010108, on right bank, 150 ft downstream of Two Log Creek, 3.8 mi northwest of Comptche.

DRAINAGE AREA.—88.7 mi².

PERIOD OF RECORD.—May 2001 to September 2002, October 2003 to September 2004.

GAGE.—Water-stage recorder. Elevation of gage is 120 ft above NGVD of 1929, from topographic map.

REMARKS.—Records good. Partial record only, May 30 to Sept. 30. No regulation or diversion above station.

COOPERATION.—Records collected by California State Department of Water Resources, under general supervision of the U.S. Geological Survey.

EXTREMES FOR PERIOD OF RECORD.—Maximum discharge, 5,120 ft³/s, Feb. 17, 2004, gage height, 14.71 ft; minimum daily discharge, 1.1 ft³/s, several days in September 2001.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	e4.4	e2.4	34	2360	249	821	70	41	21	12	3.7	2.0
2	e4.4	e3.1	49	1970	535	665	66	39	20	11	3.7	1.9
3	e4.5	e5.0	37	1310	2100	533	62	38	19	11	3.8	1.9
4	e4.8	e6.1	28	951	1740	445	58	37	19	9.9	3.8	2.0
5	e4.8	e5.5	61	713	1070	380	55	36	18	9.4	3.6	2.0
6	e4.7	e5.5	238	560	780	320	54	36	18	8.9	3.3	2.0
7	e4.4	e6.2	351	468	655	273	51	36	18	8.3	3.2	1.9
8	e4.4	e10	177	381	539	241	49	38	18	8.0	3.1	1.8
9	e4.0	e23	111	387	460	214	48	35	17	7.9	3.1	1.7
10	e3.6	e28	451	478	391	194	46	34	17	8.0	2.9	1.7
11	e3.6	e16	702	431	326	178	44	32	16	7.5	2.8	1.8
12	e3.4	e11	483	386	269	163	43	32	16	7.1	2.6	1.9
13	e3.4	e8.5	1680	323	222	148	43	31	16	6.9	2.5	2.0
14	e3.6	e11	1810	309	184	133	44	30	16	6.7	2.5	1.9
15	e3.5	e37	832	323	311	114	51	29	15	6.7	2.6	1.9
16	e3.2	30	468	289	1790	103	53	29	14	6.5	2.6	2.0
17	e3.4	22	303	252	4100	95	48	29	14	6.1	2.5	2.0
18	e3.6	17	210	215	3530	89	46	29	14	5.6	2.4	2.0
19	e3.7	15	174	182	2020	83	49	28	14	5.1	2.3	2.1
20	e3.8	13	209	156	1320	77	66	27	14	5.0	2.3	2.2
21	e3.7	12	175	133	994	72	123	27	13	5.1	2.3	2.4
22	e3.6	11	148	104	793	69	137	27	13	4.9	2.4	2.4
23	e3.6	11	132	89	642	68	102	27	13	4.7	2.5	2.4
24	e3.5	11	791	114	625	64	82	26	13	4.6	2.6	2.3
25	e3.3	11	988	101	1710	83	70	25	13	4.5	2.6	2.2
26	e3.1	12	673	84	2450	116	60	25	12	4.3	2.4	2.2
27	e2.7	12	453	141	2130	141	53	24	11	4.3	2.3	2.2
28	e2.7	11	332	312	1380	119	49	23	11	4.0	2.3	2.3
29	e2.4	19	2190	280	1010	97	47	23	11	3.8	2.2	2.4
30	e2.0	34	1800	290	---	87	44	22	12	3.8	2.1	2.4
31	e2.2	---	1030	268	---	77	---	21	---	3.8	2.0	---
TOTAL	112.0	419.3	17120	14360	34325	6262	1813	936	456	205.4	85.0	61.9
MEAN	3.61	14.0	552	463	1184	202	60.4	30.2	15.2	6.63	2.74	2.06
MAX	4.8	37	2190	2360	4100	821	137	41	21	12	3.8	2.4
MIN	2.0	2.4	28	84	184	64	43	21	11	3.8	2.0	1.7
AC-FT	222	832	33960	28480	68080	12420	3600	1860	904	407	169	123

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2001 - 2004, BY WATER YEAR (WY)

MEAN	2.82	74.7	796	488	785	211	66.1	30.1	12.5	6.43	2.85	1.98
MAX	3.61	136	1039	512	1184	220	71.9	30.2	15.2	8.57	3.93	2.60
(WY)	2004	2002	2002	2002	2004	2002	2002	2004	2004	2002	2002	2002
MIN	2.02	14.0	552	463	372	202	60.4	30.0	7.58	4.08	1.88	1.29
(WY)	2002	2004	2004	2004	2002	2004	2004	2002	2001	2001	2001	2001

SUMMARY STATISTICS

FOR 2004 WATER YEAR

WATER YEARS 2001 - 2004

ANNUAL TOTAL	76155.6		
ANNUAL MEAN	208	205	
HIGHEST ANNUAL MEAN		208	2004
LOWEST ANNUAL MEAN		201	2002
HIGHEST DAILY MEAN	4100	4100	Feb 17 2004
LOWEST DAILY MEAN	1.7	1.1	Sep 4 2001
ANNUAL SEVEN-DAY MINIMUM	1.8	1.1	Sep 3 2001
MAXIMUM PEAK FLOW	5120	5120	Feb 17 2004
MAXIMUM PEAK STAGE	14.71	14.71	Feb 17 2004
ANNUAL RUNOFF (AC-FT)	151100	148200	
10 PERCENT EXCEEDS	580	631	
50 PERCENT EXCEEDS	24	26	
90 PERCENT EXCEEDS	2.4	2.4	

e Estimated.

11468500 NOYO RIVER NEAR FORT BRAGG, CA

LOCATION.—Lat 39°25'42", long 123°44'12", in NE 1/4 sec.15, T.18 N., R.17 W., Mendocino County, Hydrologic Unit 18010108, on right bank, 0.7 mi downstream from South Fork, and 3.5 mi east of Fort Bragg.

DRAINAGE AREA.—106 mi².

PERIOD OF RECORD.—August 1951 to current year.

CHEMICAL ANALYSES: Water years 1959–66, 1977.

WATER TEMPERATURE: Water years 1966 to February 1979.

REVISED RECORDS.—WSP 1929: Drainage area.

GAGE.—Water-stage recorder. Datum of gage is 11.73 ft above NGVD of 1929.

REMARKS.—Records good. No regulation or diversion upstream from station.

EXTREMES FOR PERIOD OF RECORD.—Maximum discharge, 26,600 ft³/s, Mar. 29, 1974, gage height, 27.14 ft, from rating curve extended above 4,500 ft³/s, on basis of slope-conveyance study; minimum daily, 0.79 ft³/s, Sept. 8, 1977.

EXTREMES FOR CURRENT YEAR.—Peak discharges greater than base discharge of 2,400 ft³/s, or maximum:

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Dec. 14	0800	2,510	11.42	Jan. 1	1500	4,230	14.93
Dec. 29	1500	4,020	14.53	Feb. 17	1900	7,340	19.53

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.5	3.7	28	2540	171	611	95	55	28	15	5.6	3.2
2	5.5	4.3	31	1880	325	522	92	52	27	14	5.9	3.2
3	5.6	6.0	25	1110	1300	432	88	50	26	13	5.7	2.9
4	5.9	7.0	21	728	1290	361	85	49	26	13	5.4	2.8
5	5.8	6.4	38	524	762	308	83	47	25	12	5.4	2.8
6	5.8	6.5	202	392	530	275	81	46	25	11	5.1	2.7
7	5.5	7.0	221	319	440	234	78	45	25	11	5.0	2.7
8	5.5	10	99	273	357	211	76	45	23	10	4.8	2.8
9	5.2	22	69	332	307	191	74	43	23	10	4.8	2.6
10	4.8	26	251	423	266	177	72	42	23	9.9	4.7	2.5
11	4.8	16	437	359	229	164	70	41	22	9.7	4.5	2.5
12	4.6	11	377	297	206	155	68	40	22	9.7	4.3	2.5
13	4.6	9.1	1690	248	191	142	67	40	21	9.9	4.1	2.4
14	4.8	11	1820	230	183	131	68	39	21	10	4.0	2.4
15	4.7	34	715	228	209	123	71	38	21	10	4.0	2.4
16	4.5	31	369	212	987	117	70	37	20	9.8	4.3	2.9
17	4.6	22	221	197	4750	114	66	37	19	9.3	4.2	3.2
18	4.8	18	155	182	3750	110	64	37	18	9.2	4.0	6.8
19	4.9	14	129	169	1640	107	67	36	18	8.7	4.0	5.6
20	5.0	13	138	158	983	103	81	35	19	8.4	4.0	3.4
21	4.9	11	123	148	713	100	103	35	19	8.1	3.9	3.3
22	4.8	10	111	137	569	98	118	35	18	7.3	3.8	3.2
23	4.8	9.7	103	130	470	96	99	35	18	6.7	4.0	3.1
24	4.7	9.4	645	138	443	94	88	34	17	6.7	4.0	3.0
25	4.5	9.3	719	135	1050	103	80	33	16	6.4	4.0	2.9
26	4.4	11	483	126	1730	116	74	32	16	6.1	3.9	2.8
27	4.0	11	337	142	1600	139	68	31	10	5.9	3.6	2.7
28	4.0	10	244	192	1050	127	64	31	11	5.6	3.5	2.9
29	3.8	16	2360	185	755	113	61	30	14	5.4	3.2	3.0
30	3.4	25	1770	191	---	107	58	29	15	5.2	3.3	3.2
31	3.6	---	862	179	---	100	---	28	---	5.5	3.2	---
TOTAL	149.3	400.4	14793	12504	27256	5781	2329	1207	606	282.5	134.2	92.4
MEAN	4.82	13.3	477	403	940	186	77.6	38.9	20.2	9.11	4.33	3.08
MAX	5.9	34	2360	2540	4750	611	118	55	28	15	5.9	6.8
MIN	3.4	3.7	21	126	171	94	58	28	10	5.2	3.2	2.4
AC-FT	296	794	29340	24800	54060	11470	4620	2390	1200	560	266	183

11468500 NOYO RIVER NEAR FORT BRAGG, CA—Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1952 - 2004, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	15.8	110	420	651	565	436	213	79.2	34.4	14.4	7.87	6.29
MAX	166	750	2293	1890	2114	1406	877	377	170	32.0	17.7	12.7
(WY)	1963	1974	1965	1953	1958	1983	1963	1990	1993	1953	1953	1983
MIN	2.83	5.29	9.25	16.6	18.1	32.4	11.7	9.50	3.88	1.90	1.35	2.16
(WY)	2002	1960	1977	1977	1977	1988	1977	1977	1977	1977	1977	1970

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1952 - 2004	
ANNUAL TOTAL	77937.4		65534.8			
ANNUAL MEAN	214		179		212	
HIGHEST ANNUAL MEAN					484	
LOWEST ANNUAL MEAN					10.9	
HIGHEST DAILY MEAN	3360	Apr 29	4750	Feb 17	20500	Dec 22 1964
LOWEST DAILY MEAN	3.4	Oct 30	2.4	Sep 13	0.79	Sep 8 1977
ANNUAL SEVEN-DAY MINIMUM	3.8	Oct 27	2.5	Sep 9	1.0	Aug 16 1977
MAXIMUM PEAK FLOW			7340	Feb 17	26600	Mar 29 1974
MAXIMUM PEAK STAGE			19.53	Feb 17	27.14	Mar 29 1974
ANNUAL RUNOFF (AC-FT)	154600		130000		153200	
10 PERCENT EXCEEDS	557		434		530	
50 PERCENT EXCEEDS	59		28		33	
90 PERCENT EXCEEDS	5.5		3.8		5.1	

11468900 MATTOLE RIVER NEAR ETTERSBERG, CA

LOCATION.— Lat 40°08'22", long 123°59'25", in NW 1/4, SE 1/4 sec. 6, T.4 S., R.2 E., [Humboldt County](#), Hydrologic Unit 18010107, 0.04 mi downstream of Bear Creek, and 0.3 mi east of Ettersburg, on left bank, upstream side of Ettersburg Honeydew Road.

DRAINAGE AREA.—58.1 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.—June 2001 to current year.

REVISED RECORDS.—WDR CA-03-2: (P).

GAGE.—Water stage recorder. Datum of gage is 625.92 ft above NGVD of 1929.

REMARKS.—Records good. No regulation or diversion upstream.

EXTREMES FOR PERIOD OF RECORD.—Maximum discharge, 12,100 ft³/s, Dec. 16, 2002, gage height, 24.53 ft; minimum daily, 3.7 ft³/s, Oct. 10, 11, 2002.

EXTREMES FOR CURRENT YEAR.—Peak discharges greater than base discharge of 4,000 ft³/s, or maximum:

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Dec. 14	0130	6,560	19.93	Jan. 1	0945	8,920	22.06
Dec. 29	0800	5,850	19.15	Feb. 17	0415	7,160	20.50

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6.1	6.0	287	5770	535	949	237	165	50	26	11	5.0
2	6.0	6.4	315	3040	1160	811	213	152	49	25	11	5.1
3	6.0	9.3	223	1880	2160	677	194	142	48	25	12	4.7
4	6.0	8.2	166	1270	1600	582	179	133	47	24	11	4.6
5	5.8	7.6	522	930	1060	506	167	127	46	22	11	4.5
6	5.4	11	1760	745	870	453	156	119	45	22	11	4.4
7	5.3	30	860	639	783	409	148	127	44	21	11	4.3
8	5.2	134	545	633	662	374	138	114	43	20	10	4.2
9	5.3	121	432	832	565	334	131	106	43	21	9.3	4.0
10	5.3	46	1020	914	487	294	124	100	42	21	9.1	4.0
11	5.3	23	1000	789	435	263	117	96	41	20	9.0	4.1
12	5.4	17	1250	794	393	237	112	92	40	20	8.6	4.3
13	5.4	13	4520	817	370	214	111	89	39	19	8.0	4.3
14	5.1	24	4230	747	341	197	141	85	38	18	7.8	4.3
15	4.9	210	1630	671	425	181	185	81	36	18	8.0	4.2
16	5.0	171	908	582	1810	170	153	78	36	18	7.8	4.2
17	5.3	132	625	513	5740	159	133	76	35	17	7.6	4.5
18	5.6	78	472	457	3450	151	137	76	35	17	7.2	4.7
19	5.8	58	538	410	1870	141	211	73	36	16	6.8	5.7
20	5.9	54	683	377	1260	134	397	70	34	16	6.6	6.2
21	5.8	47	535	340	926	128	1350	68	32	16	6.5	6.0
22	5.7	42	444	300	737	123	789	65	32	14	6.8	5.5
23	5.4	40	481	287	600	116	532	63	31	14	7.4	5.2
24	5.3	38	1420	340	644	122	426	62	30	13	7.4	5.1
25	5.2	37	1130	275	956	247	359	60	30	13	7.2	5.0
26	5.1	39	848	265	2100	359	299	58	29	13	7.2	4.9
27	5.0	36	649	925	1830	784	253	57	28	12	6.8	4.8
28	5.0	35	575	880	1260	466	221	59	27	12	6.2	4.9
29	5.1	56	4070	659	958	370	199	57	26	12	5.6	5.1
30	5.4	90	2120	669	---	340	180	53	27	12	5.4	5.3
31	6.2	---	1460	568	---	274	---	51	---	11	5.1	---
TOTAL	169.3	1619.5	35718	28318	35987	10565	7992	2754	1119	548	255.4	143.1
MEAN	5.46	54.0	1152	913	1241	341	266	88.8	37.3	17.7	8.24	4.77
MAX	6.2	210	4520	5770	5740	949	1350	165	50	26	12	6.2
MIN	4.9	6.0	166	265	341	116	111	51	26	11	5.1	4.0
AC-FT	336	3210	70850	56170	71380	20960	15850	5460	2220	1090	507	284

11468900 MATTOLE RIVER NEAR ETTERSBERG, CA—Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2001 - 2004, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	7.26	173	1633	1162	810	430	419	170	41.1	17.2	9.11	5.51
MAX	11.7	409	2157	1294	1241	550	849	356	56.7	19.0	12.3	7.28
(WY)	2002	2002	2003	2003	2004	2003	2003	2003	2003	2001	2003	2003
MIN	4.61	54.0	1152	913	430	341	141	65.8	29.3	14.0	6.93	4.65
(WY)	2003	2004	2004	2004	2003	2004	2002	2002	2002	2002	2002	2002

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 2001 - 2004	
ANNUAL TOTAL	146084.9		125188.3			
ANNUAL MEAN	400		342		406	
HIGHEST ANNUAL MEAN					486	
LOWEST ANNUAL MEAN					342	
HIGHEST DAILY MEAN	4520	Dec 13	5770	Jan 1	6980	Dec 28 2002
LOWEST DAILY MEAN	4.9	Oct 15	4.0	Sep 9	3.7	Oct 10 2002
ANNUAL SEVEN-DAY MINIMUM	5.2	Oct 23	4.2	Sep 7	4.0	Oct 7 2002
MAXIMUM PEAK FLOW			8920	Jan 1	12100	Dec 16 2002
MAXIMUM PEAK STAGE			22.06	Jan 1	24.53	Dec 16 2002
ANNUAL RUNOFF (AC-FT)	289800		248300		294200	
10 PERCENT EXCEEDS	1070		910		1060	
50 PERCENT EXCEEDS	118		61		72	
90 PERCENT EXCEEDS	6.0		5.3		5.4	

11468900 MATTOLE RIVER NEAR ETTERSBERG, CA—Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.—Water year 2001 to current year.

WATER TEMPERATURE: Water year 2001 to current year.

PERIOD OF DAILY RECORD.—

WATER TEMPERATURE: June 2001 to current year.

INSTRUMENTATION.—Water temperature recorder since June 21, 2001.

REMARKS.—Records rated excellent.

EXTREMES FOR PERIOD OF DAILY RECORD.—

WATER TEMPERATURE: Maximum recorded, 28.1°C, July 25, 26, 2004; minimum recorded, 4.3°C, Nov. 23, 25, 2004.

EXTREMES FOR CURRENT YEAR.—

WATER TEMPERATURE: Maximum recorded, 28.1°C, July 25, 26; minimum recorded, 4.3°C, Nov. 23, 25.

TEMPERATURE, WATER, DEGREES CELSIUS, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	19.4	14.6	11.4	8.3	9.7	8.7	10.1	9.6	9.2	8.5	10.1	9.0
2	18.8	14.7	9.5	8.2	10.9	9.7	9.6	9.2	9.4	7.7	10.2	8.4
3	19.2	15.1	10.1	8.3	11.3	10.3	9.2	8.8	10.1	9.1	9.7	8.3
4	18.7	15.3	9.5	7.7	10.8	9.9	9.0	8.6	9.9	9.2	9.9	8.4
5	18.9	14.3	11.1	8.8	11.4	10.8	8.8	8.1	9.8	8.8	10.0	8.6
6	19.0	14.3	10.5	9.8	11.5	11.0	9.5	8.7	9.6	9.1	11.1	9.3
7	18.8	14.6	10.8	10.0	11.0	9.9	10.0	9.1	9.5	8.6	11.2	8.7
8	17.9	13.7	10.8	10.3	9.9	9.2	10.7	10.0	8.7	7.7	11.5	9.2
9	17.0	13.9	11.5	10.4	9.2	9.1	10.3	9.7	8.6	7.5	12.4	9.9
10	16.4	13.0	12.2	10.5	10.3	9.2	10.5	10.0	8.5	7.2	12.7	10.0
11	15.8	11.7	11.7	9.3	10.0	9.6	10.5	9.9	8.1	6.7	12.3	9.4
12	16.5	12.9	11.6	9.2	10.9	9.6	10.6	9.6	8.2	6.7	12.2	9.1
13	16.1	11.5	9.5	8.1	11.4	10.9	10.8	10.4	8.4	7.4	12.4	9.2
14	15.8	11.3	10.0	8.9	11.0	10.2	11.0	10.6	9.5	8.4	12.5	9.4
15	14.3	11.0	10.1	9.5	10.3	9.6	11.2	10.4	9.5	9.2	12.8	9.4
16	16.4	12.4	10.4	9.7	9.7	9.2	10.4	9.6	10.1	9.3	13.2	9.6
17	16.4	11.9	11.0	9.9	9.2	8.5	10.3	9.9	10.7	10.1	13.4	9.7
18	16.4	13.7	10.6	9.3	8.5	7.5	11.0	10.2	10.6	9.7	13.2	9.9
19	16.6	13.4	10.5	8.7	9.4	8.1	10.7	10.2	10.4	9.4	12.9	9.5
20	17.6	13.7	10.1	8.5	10.4	9.4	10.2	8.7	10.4	9.1	12.8	8.8
21	17.5	13.7	8.7	7.1	10.2	9.4	8.7	7.7	10.2	9.3	12.9	9.6
22	16.5	13.7	7.4	5.5	9.5	8.8	7.7	6.9	10.2	9.4	13.6	10.0
23	16.5	13.1	6.6	4.3	10.1	9.3	8.1	6.9	10.5	9.5	14.0	10.6
24	15.8	11.5	6.8	4.5	10.5	9.9	9.6	8.1	10.4	9.4	11.9	10.2
25	15.9	11.8	5.9	4.3	9.9	8.8	8.5	7.3	9.9	9.4	10.6	9.0
26	15.8	11.8	7.9	5.8	8.8	8.0	8.2	7.2	9.7	9.2	9.9	8.8
27	15.8	11.7	6.8	5.7	8.2	7.5	9.7	8.2	10.2	9.4	11.9	9.3
28	16.0	11.9	7.9	6.4	8.5	7.6	9.9	9.5	10.0	8.8	12.5	9.5
29	14.8	12.9	8.1	7.7	10.4	8.5	10.4	9.7	9.4	8.5	12.5	9.5
30	13.2	11.1	8.8	7.9	10.0	9.5	10.2	9.0	---	---	11.8	9.9
31	12.8	10.4	---	---	9.9	9.6	9.0	7.9	---	---	11.6	8.7
MONTH	19.4	10.4	12.2	4.3	11.5	7.5	11.2	6.9	10.7	6.7	14.0	8.3

11468900 MATTOLE RIVER NEAR ETTERSBERG, CA—Continued

TEMPERATURE, WATER, DEGREES CELSIUS, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	11.4	7.7	15.7	11.0	19.9	13.9	24.4	17.6	26.2	20.4	23.6	18.7
2	11.9	8.1	16.6	11.5	20.8	14.3	23.9	17.5	25.5	20.5	22.1	17.3
3	12.7	8.5	16.9	12.2	21.2	15.1	24.5	18.3	25.6	19.0	22.0	16.7
4	12.9	9.1	16.7	12.0	21.6	15.8	25.3	18.4	25.3	19.4	22.7	16.8
5	11.7	10.2	16.4	12.2	21.4	15.6	26.0	18.7	23.5	19.0	23.7	17.4
6	12.0	9.1	15.1	11.4	20.4	15.0	26.0	19.3	22.5	18.5	23.9	17.7
7	13.3	8.9	14.4	11.8	18.5	15.1	25.2	19.7	25.4	17.9	23.2	17.9
8	14.2	9.6	15.1	11.1	18.9	14.3	24.9	18.5	26.2	19.4	23.2	17.9
9	14.8	10.2	15.2	11.4	20.7	15.1	24.1	17.9	26.5	19.9	22.6	17.5
10	15.1	10.4	15.5	11.4	20.5	15.7	23.9	17.5	26.8	19.7	22.2	16.9
11	14.6	10.6	14.3	11.8	20.2	14.7	24.3	17.1	27.2	20.4	23.2	17.8
12	14.3	11.0	16.1	10.6	20.9	14.4	24.7	18.0	27.4	21.2	22.7	18.6
13	12.3	10.4	16.4	11.0	21.5	15.0	25.3	18.5	27.1	21.2	21.6	17.6
14	12.0	10.2	17.0	11.9	21.7	15.7	25.3	19.3	26.3	20.5	21.2	16.9
15	11.9	9.4	17.6	12.8	22.3	15.5	24.9	18.5	25.3	19.1	22.1	16.9
16	12.8	9.0	17.5	12.4	23.7	16.5	25.4	18.8	25.4	18.7	22.0	18.1
17	11.1	9.2	14.4	13.1	23.3	17.4	25.5	20.3	25.5	19.4	20.4	17.4
18	10.0	8.7	15.3	12.0	23.0	17.4	24.2	20.0	26.2	19.7	19.5	16.2
19	10.1	8.8	17.2	11.4	23.4	17.5	25.9	19.8	26.5	20.4	19.3	15.8
20	10.3	9.5	16.5	12.5	23.5	17.1	25.8	19.5	26.5	20.7	19.2	14.3
21	11.4	9.8	18.7	13.5	23.5	16.9	26.8	19.7	25.8	20.3	19.4	13.7
22	12.2	9.0	17.8	14.2	23.3	16.7	27.3	20.5	23.5	20.4	19.7	13.9
23	12.9	9.6	18.4	13.1	23.0	16.3	27.7	21.3	23.2	19.3	20.2	14.4
24	13.9	10.1	19.0	12.9	23.2	17.6	27.6	21.3	24.6	19.5	20.2	14.8
25	14.7	10.8	19.7	13.6	23.4	16.7	28.1	21.5	21.7	19.4	20.2	15.2
26	15.3	11.4	20.6	14.3	23.3	17.3	28.1	21.4	23.1	17.3	19.5	14.8
27	15.7	11.6	18.3	15.8	23.1	17.3	27.9	21.2	24.0	17.4	19.5	14.4
28	15.3	11.6	17.2	14.6	24.5	17.4	27.1	21.2	25.0	18.1	19.5	15.7
29	14.8	10.6	18.4	12.5	24.2	18.5	26.7	20.5	25.1	19.0	19.3	15.1
30	15.3	10.7	19.4	13.0	24.1	18.0	26.4	20.2	24.6	19.0	18.8	14.0
31	---	---	19.8	13.8	---	---	26.2	20.2	23.7	18.2	---	---
MONTH	15.7	7.7	20.6	10.6	24.5	13.9	28.1	17.1	27.4	17.3	23.9	13.7

CROSS-SECTIONAL DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Time	Depth at sample location, feet (81903)	Temperature, water, deg C (00010)	Location in X-sect. looking downstrm ft from l bank (00009)
OCT				
03...*	1502	2.00	17.2	10.0
03...*	1503	2.30	17.2	20.0
03...*	1504	2.50	17.3	35.0
03...*	1505	2.00	17.4	50.0
03...*	1506	1.50	17.4	60.0
MAY				
05...*	1356	.55	16.1	6.00
05...*	1357	1.50	15.4	18.0
05...*	1358	2.00	15.3	30.0
05...*	1359	2.55	15.2	42.0
05...*	1400	2.01	15.2	54.0

* Instantaneous discharge at time of cross-section measurements: Oct. 3, 6.0 ft³/s; May 5, 128 ft³/s.

11469000 MATTOLE RIVER NEAR PETROLIA, CA

LOCATION.—Lat 40°18'48", long 124°16'56", in SE 1/4 NW 1/4 sec.10, T.2 S., R.2 W., [Humboldt County](#), Hydrologic Unit 18010107, on downstream side of bridge, on left bank, 0.2 mi downstream from Mill Creek, 0.8 mi south of Petrolia, and 0.6 mi upstream from North Fork.

DRAINAGE AREA.—245 mi².

PERIOD OF RECORD.—October 1911 to December 1913, October 1950 to current year. Monthly discharge only for some periods, published in WSP 1315-B.

CHEMICAL ANALYSES: Water years 1959–79.

WATER TEMPERATURE: Water years 1966–78, 2001–03 (storm season only).

SEDIMENT DATA: Water years 2001–03 (storm season only).

REVISED RECORDS.—WSP 1285: 1912–13. WSP 1929: Drainage area.

GAGE.—Water-stage recorder and crest-stage gage. Elevation of gage is 49.91 ft above NGVD of 1929. November 1911 to December 1913, nonrecording gages at several sites upstream within 0.3 mi of present site at various datums. Dec. 11, 1950, to July 14, 1955, at site 0.3 mi upstream at datum 7.48 ft higher. July 15, 1955, to Oct. 26, 1967, at site 0.4 mi downstream at different datum. Oct. 27, 1967, to Oct. 30, 1996, at site 1.1 mi upstream at datum 7.00 ft higher.

REMARKS.—Records fair. Diversions for irrigation of about 350 acres upstream from station.

EXTREMES FOR PERIOD OF RECORD.—Maximum discharge, 90,400 ft³/s, Dec. 22, 1955, gage height, 36.60 ft, site and datum then in use, from rating curve extended above 26,000 ft³/s, on basis of slope-area measurement of peak flow; minimum daily, 14 ft³/s, Sept. 26–30, and several days in October 2002.

EXTREMES FOR CURRENT YEAR.—Peak discharges greater than base discharge of 15,000 ft³/s, or maximum:

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Dec. 14	0330	20,800	21.80	Jan. 1	1330	24,200	22.58
Dec. 29	0900	21,300	21.94	Feb. 17	1130	27,400	23.35

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	29	28	860	15500	1650	3520	587	481	157	71	32	24
2	29	30	1390	10700	3380	2980	590	454	153	68	32	22
3	29	38	783	5940	6090	2390	586	436	149	65	33	21
4	29	39	588	4190	4810	2030	557	421	146	59	33	21
5	28	38	2350	3220	3520	1870	543	411	143	55	32	21
6	28	41	6820	2580	2850	1680	505	392	141	51	33	20
7	28	72	3800	2340	2560	1480	482	399	138	47	33	20
8	28	379	2270	2790	2110	1340	455	384	137	46	32	19
9	27	538	1700	4260	1810	1230	465	353	138	46	31	19
10	27	331	3410	4710	1570	1140	462	340	136	45	30	18
11	27	179	3810	3630	1390	1050	448	324	130	44	29	18
12	27	112	3240	3290	1260	971	441	311	124	44	27	18
13	28	83	9750	3320	1180	896	433	296	119	44	27	18
14	27	91	13500	2810	1190	811	471	289	112	42	27	18
15	27	541	5270	2500	1380	743	584	275	106	42	26	18
16	27	458	3270	2160	5120	689	567	264	102	41	26	18
17	28	410	2310	1870	21600	641	520	260	100	40	26	19
18	28	287	1800	1650	13500	602	514	268	97	40	26	20
19	28	211	1790	1480	6400	567	716	252	97	39	26	21
20	28	179	2300	1360	4560	539	1230	241	95	38	26	21
21	28	150	1910	1220	3490	514	2650	236	90	37	26	22
22	28	127	1640	1110	2720	492	2030	224	88	37	26	22
23	28	111	1720	1060	2210	473	1240	216	87	35	27	22
24	27	101	4940	1200	2430	462	965	207	85	34	28	21
25	27	98	4070	1050	3910	681	811	199	82	35	28	21
26	26	103	3070	977	7260	767	706	190	80	34	29	20
27	26	97	2460	2550	6340	1160	632	183	77	33	28	20
28	26	90	2260	2780	4780	848	575	186	76	32	26	21
29	26	101	13300	2070	3910	669	542	182	74	33	25	21
30	26	211	6900	2080	---	652	511	171	73	32	24	21
31	26	---	4660	1810	---	598	---	163	---	32	24	---
TOTAL	851	5274	117941	98207	124980	34485	21818	9008	3332	1341	878	605
MEAN	27.5	176	3805	3168	4310	1112	727	291	111	43.3	28.3	20.2
MAX	29	541	13500	15500	21600	3520	2650	481	157	71	33	24
MIN	26	28	588	977	1180	462	433	163	73	32	24	18
AC-FT	1690	10460	233900	194800	247900	68400	43280	17870	6610	2660	1740	1200

11469000 MATTOLE RIVER NEAR PETROLIA, CA—Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1912 - 2004, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	213	1352	2971	3608	3116	2246	1201	543	207	81.1	48.9	57.2
MAX	1900	7159	8340	8928	10710	7929	5225	1842	1058	191	164	237
(WY)	1951	1974	1956	1970	1958	1983	1963	1960	1993	1993	1983	1977
MIN	16.2	41.8	39.7	135	243	187	166	151	68.9	31.3	22.9	17.1
(WY)	2003	1960	1977	1977	1977	1988	1988	1970	1977	1977	1977	2002

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1912 - 2004	
ANNUAL TOTAL	503198		418720			
ANNUAL MEAN	1379		1144		1297	
HIGHEST ANNUAL MEAN					2642	
LOWEST ANNUAL MEAN					157	
HIGHEST DAILY MEAN	13700	Jan 13	21600	Feb 17	55200	Dec 22 1964
LOWEST DAILY MEAN	26	Oct 26	18	Sep 10	14	Sep 26 2002
ANNUAL SEVEN-DAY MINIMUM	26	Oct 25	18	Sep 10	14	Sep 26 2002
MAXIMUM PEAK FLOW			27400	Feb 17	90400	Dec 22 1955
MAXIMUM PEAK STAGE			23.35	Feb 17	36.60	Dec 22 1955
ANNUAL RUNOFF (AC-FT)	998100		830500		939500	
10 PERCENT EXCEEDS	3790		3300		3380	
50 PERCENT EXCEEDS	426		211		270	
90 PERCENT EXCEEDS	28		26		35	

WATER RESOURCES DATA—CALIFORNIA, WATER YEAR 2004

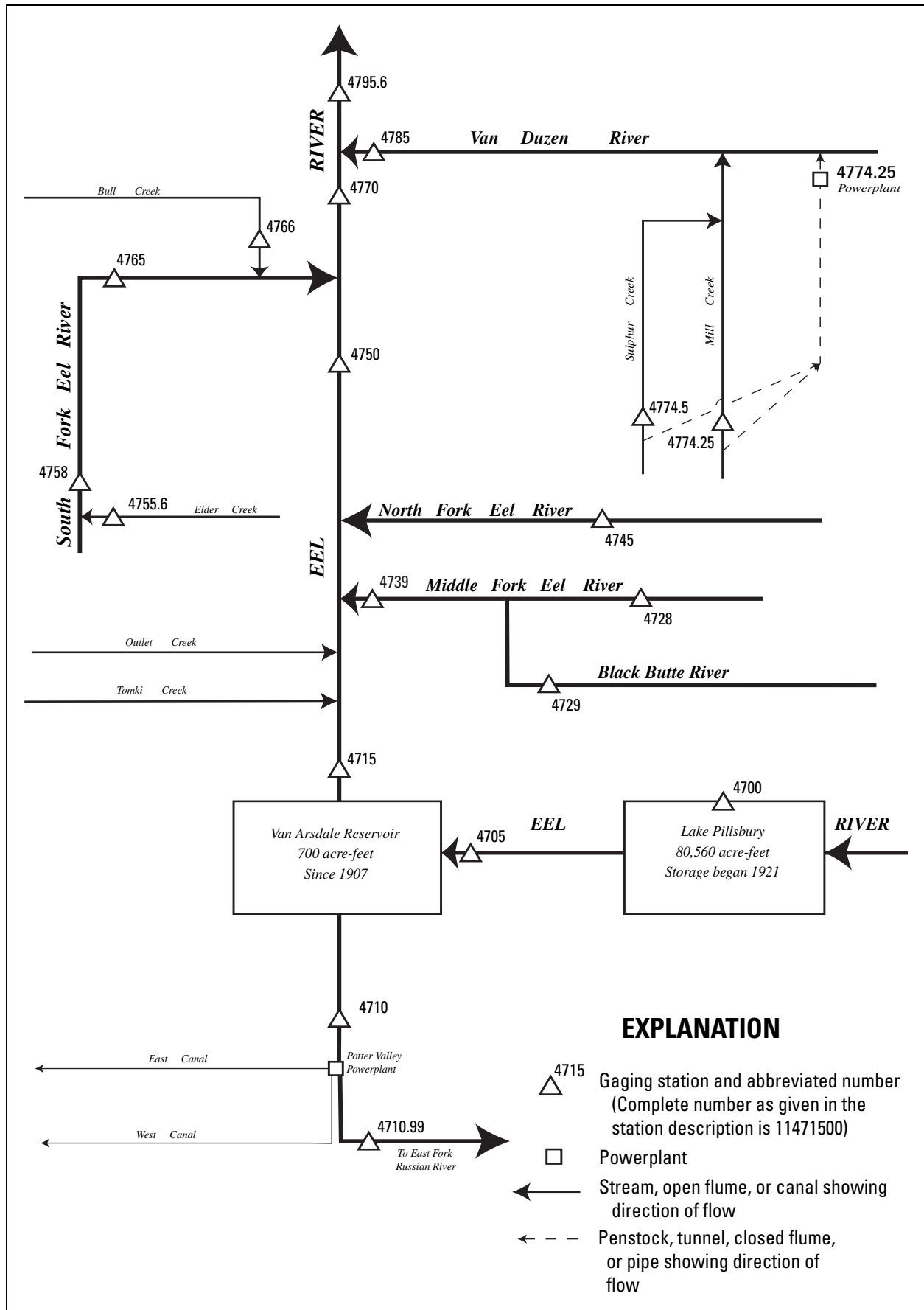


Figure 23. Diversions and storage in Eel River Basin.

11470000 LAKE PILLSBURY NEAR POTTER VALLEY, CA

LOCATION.—Lat 39°24'30", long 122°57'30", on line between secs.14 and 23, T.18 N., R.10 W., Lake County, Hydrologic Unit 18010103, Mendocino National Forest, at Scott Dam, near right bank of Eel River, 0.3 mi downstream from Rice Fork, and 10.2 mi northeast of town of Potter Valley.

DRAINAGE AREA.—289 mi².

PERIOD OF RECORD.—October 1922 to September 1928 (daily gage heights only), October 1928 to current year. Monthend contents only for some periods, published in WSP 1315-B. Prior to October 1953, published as "at Hullville."

WATER TEMPERATURE: Water years 1966–68.

GAGE.—Water-stage recorder and nonrecording gage. Datum of gage is 81.7 ft below NGVD of 1929 (river-profile survey). Prior to Jan. 26, 1950, nonrecording gage at same site and datum.

REMARKS.—Reservoir is formed by concrete overflow-type dam; storage began in December 1921. Beginning Oct. 1, 1985, capacity based on 1984 resurvey. Usable capacity, 80,560 acre-ft, between gage heights 1,822.4 ft, sill of outlet gate, and 1,910.0 ft, top of spillway gates; dead storage, 87 acre-ft. Water is released down Eel River to Van Arsdale Reservoir, most of which is diverted through tunnel to Potter Valley Powerplant (station 11477100); part is then used for irrigation and remainder flows into East Fork Russian River. Records given, including extremes, represent total contents at 2400 hours. See schematic diagram of [Eel River Basin](#).

COOPERATION.—Records collected by Pacific Gas & Electric Co., under general supervision of the U.S. Geological Survey, in connection with Federal Energy Regulatory Commission project no. 77.

EXTREMES FOR PERIOD OF RECORD.—Maximum contents, 95,600 acre-ft, May 13, 16, 1925, gage height, 1,910.8 ft, maximum gage height, 1,911.84 ft, Dec. 22, 1964, from floodmarks; minimum contents, 10 acre-ft, Dec. 9, 10, 1931, gage height, 1,822.5 ft.

Capacity table (elevation, in feet, and contents in acre-feet)
(Based on table provided by Pacific Gas & Electric Co., dated April 1984)

1,822.4	87	1,840	2,463	1,865	13,701	1,890	41,811
1,824	153	1,845	3,391	1,870	17,664	1,895	50,179
1,827	333	1,850	5,710	1,875	22,451	1,900	59,469
1,830	626	1,855	7,831	1,880	28,071	1,905	69,675
1,835	1,371	1,860	10,456	1,885	34,474	1,910	80,643

RESERVOIR STORAGE, ACRE FEET, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAILY OBSERVATION AT 2400 HOURS

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	44300	32800	27400	64000	60100	62000	70900	78200	75200	67900	59700	50100
2	43700	32700	28500	62600	61900	61800	71300	78400	74900	67700	59400	49800
3	43100	32400	28400	61700	61700	61500	71700	78400	74600	67400	59000	49400
4	42600	32200	28300	61200	61300	61300	72000	78500	74300	67200	58700	49100
5	42000	32000	29200	60900	60900	61200	72300	78600	74000	66900	58400	48800
6	41500	31900	35900	60700	60800	61100	72600	78700	73800	66700	58100	48500
7	41100	31700	38400	60800	60700	61100	72900	78700	73500	66400	57800	48200
8	40700	31900	39000	61500	60500	61200	73200	78800	73300	66200	57500	47900
9	40300	32300	39400	62800	60300	61200	73400	78700	73100	66000	57200	47500
10	39800	32300	41400	62400	60300	61100	73700	78800	72900	65800	56800	47200
11	39300	32100	42700	61800	60100	61000	73900	78700	72600	65500	56500	46900
12	38800	31800	44600	61400	60100	60800	74000	78600	72400	65300	56200	46600
13	38400	31400	50800	61200	60000	60700	74200	78600	72200	65000	55900	46300
14	37900	31000	61300	61200	60000	60600	74400	78500	72000	64800	55600	46000
15	37400	30900	61500	61100	61300	60600	74500	78400	71800	64600	55300	45700
16	36900	30500	60900	60900	67900	60500	74600	78300	71500	64300	55000	45400
17	36500	30100	60400	60700	73600	60500	74700	78200	71300	64100	54700	45100
18	36100	29600	60200	60500	66900	60700	74900	78100	71100	63900	54400	44800
19	35800	29000	60600	60400	64300	61400	75300	78000	70800	63700	54000	44500
20	35500	28500	61500	60300	63100	62200	75900	77900	70500	63400	53700	44200
21	35300	28000	61200	60200	62400	63000	76400	77900	70300	63100	53400	43900
22	35100	27500	60700	60100	62000	63800	76800	77800	70100	62800	53100	43600
23	34800	27000	61400	60000	61600	64600	77000	77700	69800	62500	52800	43400
24	34600	26600	64700	60000	61600	65200	77200	77500	69500	62200	52500	43100
25	34400	26100	62700	59900	65100	66300	77400	77200	69200	61900	52200	42800
26	34200	25700	61700	59900	65100	67200	77500	77000	69000	61600	51900	42500
27	33900	25300	61000	60600	63500	68100	77700	76700	68700	61300	51600	42200
28	33700	24900	60800	60500	62600	68800	77900	76400	68600	60900	51300	41900
29	33500	25000	65300	60300	62100	69500	78000	76100	68300	60600	51000	41600
30	33200	25400	63000	60300	---	70000	78100	75800	68100	60300	50700	41400
31	33000	---	62000	60100	---	70500	---	75500	---	60000	50400	---
TOTAL	1167400	888600	1584900	1890000	1811800	1959500	2244400	2414700	2147400	1990000	1704800	1368400
MEAN	37658	29620	51126	60968	62476	63210	74813	77894	71580	64194	54994	45613
MAX	44300	32800	65300	64000	73600	70500	78100	78800	75200	67900	59700	50100
MIN	33000	24900	27400	59900	60000	60500	70900	75500	68100	60000	50400	41400
a	1883.92	1877.71	1901.30	1900.34	1901.32	1905.39	1908.88	1907.72	1904.26	1900.28	1895.12	1889.71
b	-11900	-7600	+36600	-1900	+2000	+8400	+7600	-2600	-7400	-8100	-9600	-9000

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

11470500 EEL RIVER BELOW SCOTT DAM, NEAR POTTER VALLEY, CA

LOCATION.—Lat 39°24'29", long 122°58'29", in SE 1/4 sec.15, T.18 N., R.10 W., [Lake County](#), Hydrologic Unit 18010103, Mendocino National Forest, on left bank, 0.4 mi upstream from Soda Creek, 0.7 mi downstream from Scott Dam, and 9.7 mi northeast of town of Potter Valley.

DRAINAGE AREA.—290 mi².

PERIOD OF RECORD.—October 1922 to current year. Monthly discharge only for some periods, published in WSP 1315-B. Prior to October 1929, published as "South Eel River at Hullville," and October 1929 to September 1953, "at Hullville."

REVISED RECORDS.—WSP 1315-B: 1923(M), 1938(M). WSP 1395: Drainage area.

GAGE.—Water-stage recorder. Elevation of gage is 1,740 ft above NGVD of 1929, from topographic map. Prior to Dec. 15, 1930, at datum 3.00 ft higher.

REMARKS.—Flow regulated by Lake Pillsbury (station 11470000) 0.7 mi upstream. No diversion upstream from station. See schematic diagram of [Eel River Basin](#).

COOPERATION.—Records collected by Pacific Gas & Electric Co., under general supervision of the U.S. Geological Survey, in connection with Federal Energy Regulatory Commission project no. 77.

EXTREMES FOR PERIOD OF RECORD.—Maximum discharge, 56,300 ft³/s, Dec. 22, 1964, gage height, 24.24 ft, from floodmarks, from rating curve extended above 37,000 ft³/s; minimum daily, 0.1 ft³/s, Sept. 8, 1924.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	294	122	209	3580	707	2000	228	180	258	140	160	151
2	304	123	223	3570	1160	1920	221	179	248	147	164	153
3	305	122	271	2140	1810	1640	217	180	236	152	153	156
4	298	122	280	1500	1520	1480	216	178	222	149	156	156
5	277	122	276	1240	1300	1380	218	177	214	147	152	157
6	244	122	211	1080	1150	1310	218	177	198	139	151	156
7	208	122	281	1080	1100	1280	218	176	179	131	152	156
8	196	124	283	1220	997	1320	218	176	175	129	156	156
9	217	124	284	1760	907	1360	218	175	173	127	157	156
10	232	139	317	2670	810	1350	219	175	172	125	154	156
11	238	176	372	2000	736	1280	220	190	171	123	153	156
12	242	210	368	1580	674	1200	220	199	170	130	154	156
13	245	242	359	1410	627	1120	220	200	167	138	154	156
14	248	249	367	1320	604	1070	221	201	161	129	153	156
15	249	256	368	1330	870	1030	221	202	157	122	153	155
16	249	271	365	1230	5210	999	221	199	151	121	153	153
17	234	271	693	1120	19700	959	221	198	157	122	153	145
18	190	273	852	1020	16100	748	220	200	161	128	153	145
19	175	273	701	936	6720	366	211	197	161	135	153	145
20	148	273	1370	858	4000	268	195	196	160	137	153	144
21	128	277	1550	772	2750	223	185	195	158	141	153	148
22	121	274	1270	687	2110	222	207	196	154	169	153	147
23	124	273	1170	621	1720	227	219	196	162	154	153	147
24	125	272	4640	617	1640	231	205	229	154	146	152	147
25	125	268	4370	584	4060	236	208	285	147	147	152	151
26	126	256	2220	534	6640	239	211	264	151	151	152	153
27	126	231	1460	735	4870	243	202	278	154	157	151	153
28	126	214	1170	1020	3100	230	194	275	155	155	151	153
29	125	213	4000	904	2260	224	184	258	159	152	151	153
30	124	206	4940	824	---	225	177	257	145	154	151	150
31	124	---	2470	751	---	227	---	254	---	148	151	---
TOTAL	6167	6220	37710	40693	95852	26607	6353	6442	5230	4345	4757	4566
MEAN	199	207	1216	1313	3305	858	212	208	174	140	153	152
MAX	305	277	4940	3580	19700	2000	228	285	258	169	164	157
MIN	121	122	209	534	604	222	177	175	145	121	151	144
AC-FT	12230	12340	74800	80710	190100	52770	12600	12780	10370	8620	9440	9060

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1923 - 2004, BY WATER YEAR (WY)

MEAN	219	276	768	1300	1446	1052	657	339	200	175	177	207
MAX	361	1851	4945	5687	6624	4536	3357	1184	717	329	334	336
(WY)	1963	1974	1965	1970	1986	1983	1982	1983	1998	1959	1959	1996
MIN	19.1	13.3	27.6	35.8	7.28	11.8	15.4	34.4	50.3	64.5	65.0	34.4
(WY)	1978	1934	1960	1944	1977	1977	1977	1977	1977	1977	1977	1977

SUMMARY STATISTICS

	FOR 2003 CALENDAR YEAR	FOR 2004 WATER YEAR	WATER YEARS 1923 - 2004
ANNUAL TOTAL	250090	244942	
ANNUAL MEAN	685	669	564
HIGHEST ANNUAL MEAN			1443
LOWEST ANNUAL MEAN			85.4
HIGHEST DAILY MEAN	8370	Jan 13	19700
LOWEST DAILY MEAN	121	Oct 22	121
ANNUAL SEVEN-DAY MINIMUM	122	Nov 1	122
MAXIMUM PEAK FLOW			28200
MAXIMUM PEAK STAGE		16.60	Feb 17
ANNUAL RUNOFF (AC-FT)	496100	485800	408600
10 PERCENT EXCEEDS	1570	1420	1150
50 PERCENT EXCEEDS	313	214	232
90 PERCENT EXCEEDS	157	140	94

11471000 POTTER VALLEY POWERHOUSE INTAKE NEAR POTTER VALLEY, CA

LOCATION.—Lat 39°22'00", long 123°07'35", in SW 1/4 SW 1/4 sec.31, T.18 N., R.11 W., [Mendocino County](#), Hydrologic Unit 18010103, in penstock of powerhouse of Pacific Gas & Electric Co., 1.5 mi southwest of Van Arsdale Dam, and 3.2 mi northwest of town of Potter Valley.

PERIOD OF RECORD.—December 1909 to current year. Prior to October 1922, monthly discharge only, published in WSP 1315-B. Prior to October 1931, published as "Snow Mountain Water and Power Co.'s Tailrace near Potter Valley." October 1931 to September 1984, published as "Potter Valley Powerhouse Tailrace near Potter Valley."

SEDIMENT DATA: Water years 1964–68.

REVISED RECORDS.—WSP 1395: 1950. WDR CA-89-2: 1988.

GAGE.—Acoustic flowmeter in penstock of powerplant. Elevation of gage is 1,440 ft above NGVD of 1929, from topographic map. Prior to Dec. 11, 1985, water-stage recorder and Parshall flume. See WSP 1929 for history of changes prior to Apr. 12, 1950.

REMARKS.—Water is diverted from Eel River above Van Arsdale Dam. After passing through powerhouse, part is used for irrigation in Potter Valley and remainder flows into East Fork Russian River. See schematic diagram of [Eel River Basin](#).

COOPERATION.—Records collected by Pacific Gas & Electric Co., under general supervision of the U.S. Geological Survey, in connection with Federal Energy Regulatory Commission project no. 77.

EXTREMES FOR PERIOD OF RECORD (Since 1922).—Maximum daily discharge, 351 ft³/s, Oct. 31, 1982; no flow at times in several years.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	283	95	224	276	298	298	197	134	133	135	135	134
2	291	97	200	298	298	298	194	135	142	127	135	135
3	296	94	230	297	298	298	193	140	137	130	135	135
4	292	92	282	297	292	298	193	139	137	131	135	135
5	276	93	299	296	298	298	193	134	136	129	135	134
6	248	96	264	296	298	297	192	134	150	122	135	135
7	208	97	286	300	297	297	191	134	137	110	135	135
8	187	115	296	299	299	297	191	133	135	107	135	135
9	198	125	300	299	299	297	190	135	130	104	135	134
10	213	118	270	298	298	297	188	132	128	104	135	135
11	217	123	297	298	298	297	188	131	133	107	135	135
12	219	119	297	298	298	297	187	145	137	105	135	135
13	217	147	296	298	299	297	187	146	141	107	135	137
14	219	162	294	297	298	297	187	156	136	110	135	137
15	219	196	296	298	298	297	191	156	136	109	135	134
16	221	202	299	297	234	299	191	155	132	105	135	135
17	214	239	299	297	32	300	190	155	129	105	135	138
18	182	255	299	297	0.00	299	185	155	130	106	135	149
19	152	261	299	298	103	298	184	154	134	104	135	153
20	138	250	299	298	298	297	175	153	138	105	135	149
21	108	217	298	299	298	282	175	151	137	110	135	137
22	95	191	298	298	297	278	179	151	135	126	135	137
23	93	189	298	298	297	280	176	151	131	145	135	135
24	89	186	209	298	297	262	162	139	142	133	135	132
25	95	188	247	298	277	221	149	162	131	135	135	133
26	94	185	298	298	51	264	155	139	129	135	135	138
27	94	169	299	298	122	172	146	133	134	135	135	138
28	95	164	298	299	300	197	149	133	141	135	135	138
29	94	187	170	298	299	197	146	133	145	135	135	138
30	95	190	144	298	---	197	139	133	138	135	135	137
31	95	---	299	298	---	197	---	133	---	135	135	---
TOTAL	5537	4842	8484	9212	7371.00	8500	5363	4414	4074	3721	4185	4112
MEAN	179	161	274	297	254	274	179	142	136	120	135	137
MAX	296	261	300	300	300	300	197	162	150	145	135	153
MIN	89	92	144	276	0.00	172	139	131	128	104	135	132
AC-FT	10980	9600	16830	18270	14620	16860	10640	8760	8080	7380	8300	8160

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1910 - 2004, BY WATER YEAR (WY)

MEAN	186	194	210	223	241	245	229	212	176	157	153	178
MAX	321	311	311	316	325	330	330	330	325	314	320	314
(WY)	1991	1963	1982	1982	1982	1998	1998	1982	1982	1953	1953	1967
MIN	0.00	9.70	3.10	15.4	11.8	0.00	18.9	39.0	38.5	11.0	2.29	2.67
(WY)	1960	1934	1934	1944	1977	1950	1977	1977	1920	1920	1920	1920

SUMMARY STATISTICS

FOR 2003 CALENDAR YEAR

FOR 2004 WATER YEAR

WATER YEARS 1910 - 2004

ANNUAL TOTAL	76671.42	69815.00		
ANNUAL MEAN	210	191	200	
HIGHEST ANNUAL MEAN			305	1967
LOWEST ANNUAL MEAN			84.0	1920
HIGHEST DAILY MEAN	312	Apr 18	300	Dec 9
LOWEST DAILY MEAN	0.03	Jan 18	0.00	Feb 18
ANNUAL SEVEN-DAY MINIMUM	0.03	Jan 18	93	Oct 23
ANNUAL RUNOFF (AC-FT)	152100	138500	145200	
10 PERCENT EXCEEDS	298	298	312	
50 PERCENT EXCEEDS	226	154	215	
90 PERCENT EXCEEDS	103	110	62	

11471099 POTTER VALLEY POWERHOUSE TAILRACE NEAR POTTER VALLEY, CA

LOCATION.—Lat 39°21'42", long 123°07'38", in SW 1/4 NW 1/4 sec.6, T.17 N., R.11 W., Mendocino County, Hydrologic Unit 18010110, 100 ft downstream from powerhouse of Pacific Gas and Electric Co., 1.8 mi southwest of Van Arsdale Dam, and 2.9 mi northwest of town of Potter Valley.

PERIOD OF RECORD.—October 1987 to current year. October 1931 to September 1984, record published for Potter Valley Powerhouse Intake (station 11471000) not equivalent because diversion for irrigation is included.

GAGE.—Discharge computed as difference between Potter Valley Powerhouse Intake (station 11471000) and the combined flows of Potter Valley Irrigation District East Canal (station 11471105) and Potter Valley Irrigation District West Canal (station 11471106). Elevation of tailrace is 1,020 ft above NGVD of 1929, from topographic map.

REMARKS.—Flow represents inflow into the Russian River Basin after passing through powerhouse. See schematic diagrams of Russian River and Eel River Basins.

COOPERATION.—Records collected by Pacific Gas and Electric Co., under general supervision of the U.S. Geological Survey, in connection with Federal Energy Regulatory Commission project no. 77.

EXTREMES FOR PERIOD OF RECORD.—Maximum daily discharge, 335 ft³/s, Mar. 19, 20, 22, 23, 1998; no flow Apr. 4, 5, July 18–20, 1990; Nov. 15–19, 1993; and many days in 1995 and 2001.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	267	87	224	276	298	298	197	99	87	89	90	91
2	275	89	200	298	298	298	194	99	92	82	100	92
3	285	87	230	297	298	298	193	104	88	85	103	94
4	281	87	282	297	292	298	193	104	88	86	95	99
5	268	88	299	296	298	298	193	99	87	84	101	101
6	243	91	264	296	298	297	192	98	99	82	90	100
7	201	92	286	300	297	297	191	90	89	84	85	96
8	181	110	296	299	299	297	191	86	87	81	85	95
9	188	116	300	299	299	297	190	90	85	79	85	95
10	204	110	270	298	298	297	188	88	83	79	85	98
11	212	117	297	298	298	297	188	84	87	82	85	101
12	212	115	297	298	298	297	187	96	90	81	86	101
13	205	139	296	298	299	297	187	98	93	99	92	103
14	202	153	294	297	298	297	187	107	89	89	93	99
15	202	190	296	298	298	297	191	107	89	74	92	90
16	209	200	299	297	234	299	191	112	86	76	90	90
17	204	236	299	297	32	300	190	123	83	76	90	94
18	173	252	299	297	0.00	299	184	115	84	76	88	103
19	142	258	299	297	103	298	180	107	84	75	87	113
20	128	247	299	297	298	297	170	106	88	76	87	121
21	98	215	298	298	298	282	171	105	88	80	89	112
22	79	189	298	297	297	278	178	113	87	95	91	113
23	77	187	298	297	297	280	175	116	84	114	91	100
24	74	184	209	297	297	262	161	106	93	103	91	93
25	79	186	247	297	277	221	148	129	84	93	89	90
26	78	183	298	297	51	264	154	118	81	85	90	90
27	78	168	299	297	122	172	140	112	85	88	94	92
28	84	163	298	298	300	197	124	118	90	90	88	99
29	90	186	170	297	299	197	112	114	95	90	86	100
30	83	190	144	298	---	197	104	111	90	90	86	99
31	87	---	299	298	---	197	---	100	---	87	89	---
TOTAL	5189	4715	8484	9201	7371.00	8500	5244	3254	2635	2650	2793	2964
MEAN	167	157	274	297	254	274	175	105	87.8	85.5	90.1	98.8
MAX	285	258	300	300	300	300	197	129	99	114	103	121
MIN	74	87	144	276	0.00	172	104	84	81	74	85	90
AC-FT	10290	9350	16830	18250	14620	16860	10400	6450	5230	5260	5540	5880

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1988 - 2004, BY WATER YEAR (WY)

	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
MEAN	176	180	193	201	226	249	200	176	138	102	103	145					
MAX	311	291	296	297	319	329	327	316	307	160	151	286					
(WY)	1991	1998	2002	2004	1996	1998	1998	1993	1998	1993	1996	1996					
MIN	79.3	90.1	46.5	35.8	45.0	51.4	53.7	87.4	59.0	50.5	47.4	57.8					
(WY)	1989	1988	2001	1991	1991	1995	1990	2002	1994	2001	2001	2001					

SUMMARY STATISTICS

	FOR 2003 CALENDAR YEAR	FOR 2004 WATER YEAR	WATER YEARS 1988 - 2004
ANNUAL TOTAL	73383.00	63000.00	
ANNUAL MEAN	201	172	174
HIGHEST ANNUAL MEAN			248
LOWEST ANNUAL MEAN			82.8
HIGHEST DAILY MEAN	311	Apr 15	335
LOWEST DAILY MEAN	0.00	Jan 18	0.00
ANNUAL SEVEN-DAY MINIMUM	0.00	Jan 18	0.00
ANNUAL RUNOFF (AC-FT)	145600	125000	125900
10 PERCENT EXCEEDS	296	298	316
50 PERCENT EXCEEDS	215	126	135
90 PERCENT EXCEEDS	96	85	67

11471500 EEL RIVER AT VAN ARSDALE DAM, NEAR POTTER VALLEY, CA

LOCATION.—Lat 39°23'19", long 123°06'54", in NE 1/4 sec.30, T.18 N., R.11 W., [Mendocino County](#), Hydrologic Unit 18010103, on left bank, 1,000 ft downstream from Van Arsdale Dam, and 4.6 mi north of town of Potter Valley.

DRAINAGE AREA.—349 mi².

PERIOD OF RECORD.—November 1909 to September 1922 (combined monthly discharge only, of Eel River at this station and Snow Mountain Water and Power Co.'s tailrace near Potter Valley), October 1922 to current year. Monthly discharge only for some periods, published in WSP 1315-B. Prior to October 1929, published as "South Eel River at Van Arsdale Dam, near Potter Valley."

REVISED RECORDS.—WSP 1315-B: 1913, 1920–23, 1925–27. WSP 1395: 1923(M), 1938. WDR CA-04-2: 2001.

GAGE.—Water-stage recorder. Elevation of gage is 1,400 ft above NGVD of 1929, from topographic map. Nov. 18, 1909, to Mar. 3, 1927, recorder in reservoir 800 ft upstream from Van Arsdale Dam at different datum. Oct. 1, 1927, to Feb. 28, 1937, nonrecording gage at present site and datum.

REMARKS.—Flow regulated by Lake Pillsbury (station 11470000) 11 mi upstream. Low flows may be further regulated at Van Arsdale Dam by calibrated gates in dam and fish ladder. Water is diverted from Van Arsdale Reservoir through tunnel to Potter Valley Powerhouse Intake (station 11471000), after which part is used for irrigation and remainder flows into East Fork Russian River ([see station 11471099](#)). Records given represent flow only in Eel River. See schematic diagram of [Eel River Basin](#).

COOPERATION.—Records collected by Pacific Gas and Electric Co., under general supervision of the U.S. Geological Survey, in connection with Federal Energy Regulatory Commission project no. 77.

EXTREMES FOR PERIOD OF RECORD.—Maximum discharge, 64,100 ft³/s, Dec. 22, 1964, gage height, 33.9 ft, from floodmarks; no flow at times.

REVISIONS.—Revised figures of daily discharge for October, November, and December 2000, superseding those published in the report for 2001 are given below.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAILY MEAN VALUES

(REVISED)

DAY	OCT	NOV	DEC
1	7.8	111	70
2	9.0	104	70
3	10	70	70
4	12	94	70
5	15	104	70
6	17	100	70
7	19	100	70
8	21	87	70
9	21	100	70
10	25	97	70
11	27	82	70
12	24	71	70
13	22	57	70
14	27	44	70
15	28	54	70
16	28	35	72
17	16	35	84
18	16	35	91
19	16	35	86
20	32	35	98
21	35	35	99
22	32	35	85
23	35	35	73
24	44	35	70
25	82	35	70
26	115	35	70
27	66	35	70
28	57	35	70
29	62	32	70
30	94	32	70
31	111	---	70
TOTAL	1125.8	1794	2298
MEAN	36.3	59.8	74.1
MAX	115	111	99
MIN	7.8	32	70
AC-FT	2230	3560	4560

		Total	Mean
2000	Calendar Year	136965.4	374
2001	Water Year	30176.6	82.7

11471500 EEL RIVER AT VAN ARSDALE DAM, NEAR POTTER VALLEY, CA—Continued

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	12	37	102	4010	395	1970	113	109	121	20	15	16
2	12	27	103	3480	1040	1850	107	109	118	19	16	16
3	12	33	103	2040	2010	1530	105	109	106	19	16	16
4	15	38	105	1350	1570	1290	109	109	106	19	16	14
5	15	36	177	983	1140	1120	109	109	81	17	16	14
6	20	35	481	796	909	1010	109	109	67	18	15	14
7	23	36	312	839	825	950	108	109	67	18	15	14
8	26	35	129	1020	701	974	108	109	65	18	15	14
9	27	54	98	1860	603	1000	108	109	66	17	15	14
10	31	87	406	2820	515	992	108	109	67	16	15	14
11	32	107	375	2060	441	900	108	109	67	15	15	14
12	37	108	351	1540	378	808	108	107	49	15	15	14
13	37	109	771	1220	333	734	108	98	45	15	15	14
14	37	109	1270	1050	310	676	108	98	44	15	15	14
15	37	109	1570	1050	631	637	108	96	35	15	15	14
16	37	110	1200	921	5440	605	108	98	33	14	14	14
17	38	109	781	783	19100	569	107	98	30	14	13	20
18	38	110	553	671	17300	463	108	99	29	15	14	15
19	38	110	459	586	7550	129	109	111	27	18	13	15
20	35	110	1120	518	4080	109	109	112	26	19	13	15
21	37	108	1350	439	2690	109	109	112	26	19	13	15
22	37	109	959	364	2010	109	110	122	23	14	13	15
23	38	102	847	306	1610	106	110	112	30	14	12	15
24	37	106	4640	299	1550	106	110	119	30	14	12	14
25	37	91	3970	269	3980	109	110	123	28	17	12	15
26	38	78	1990	225	7560	112	110	130	24	17	13	15
27	37	72	1210	422	5430	225	110	115	20	17	13	15
28	38	61	851	676	3190	155	109	116	18	14	13	15
29	37	65	4540	572	2240	126	109	118	18	15	12	15
30	37	102	4690	505	---	120	110	118	19	15	12	15
31	37	---	2280	438	---	116	---	115	---	14	13	---
TOTAL	969	2403	37793	34112	95531	19709	3262	3416	1485	506	434	444
MEAN	31.3	80.1	1219	1100	3294	636	109	110	49.5	16.3	14.0	14.8
MAX	38	110	4690	4010	19100	1970	113	130	121	20	16	20
MIN	12	27	98	225	310	106	105	96	18	14	12	14
AC-FT	1920	4770	74960	67660	189500	39090	6470	6780	2950	1000	861	881

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1923 - 2004, BY WATER YEAR (WY)

MEAN	12.9	125	726	1396	1534	1031	546	185	30.1	5.95	5.84	5.62
MAX	153	2389	5249	6293	8904	5492	3863	1174	366	25.3	54.1	27.9
(WY)	1963	1974	1965	1970	1986	1983	1982	1983	1998	1999	1980	1959
MIN	0.86	1.30	1.78	2.00	3.62	2.00	2.00	2.00	1.07	1.06	1.09	1.10
(WY)	1953	1953	1937	1924	1977	1924	1924	1924	1931	1931	1931	1931

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1923 - 2004	
ANNUAL TOTAL	197354.1		200064			
ANNUAL MEAN	541		547		458	
HIGHEST ANNUAL MEAN					1546	
LOWEST ANNUAL MEAN					3.46	
HIGHEST DAILY MEAN	5840	Jan 13	19100	Feb 17	49500	Dec 22 1964
LOWEST DAILY MEAN	1.4	Sep 30	12	Oct 1	0.00	Sep 13 1953
ANNUAL SEVEN-DAY MINIMUM	5.3	Aug 23	12	Aug 23	0.16	Dec 5 1965
MAXIMUM PEAK FLOW			26200		64100	
MAXIMUM PEAK STAGE			23.96		33.90	
ANNUAL RUNOFF (AC-FT)	391500		396800		331900	
10 PERCENT EXCEEDS	1650		1280		1090	
50 PERCENT EXCEEDS	145		106		10	
90 PERCENT EXCEEDS	6.1		14		2.0	

11472160 WILLITS CREEK ABOVE LAKE EMILY, NEAR WILLITS, CA

LOCATION.—Lat 39°26'58", long 123°23'49", in NE 1/4 NE 1/4 sec.3, T.18 N., R.14 W., Mount Diablo Meridian, Mendocino County, Hydrologic Unit 18010103, on left bank, upstream side of Poppy Drive, 1.2 mi upstream of Lake Emily Dam, and 3.7 mi northwest of Willits.

DRAINAGE AREA.—3.72 mi².

PERIOD OF RECORD.—October 1, 2003, to September 30, 2004.

GAGE.—Water-stage recorder. Datum of gage is 1,580 ft above NGVD of 1929, from topographic map.

REMARKS.—Record is good except for estimated discharges, which are fair. No regulation or diversion above gage. See schematic diagram of Eel River Basin.

EXTREMES FOR PERIOD OF RECORD.—Maximum discharge, 182 ft³/s, Feb. 17, 2004, gage height, 2.54 ft, from rating extended above 126 ft³/s; minimum daily, 0.02 ft³/s, several days in October 2003 and September 2004.

EXTREMES FOR CURRENT YEAR.—Peak discharges greater than base discharge of 125 ft³/s, or maximum:

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Dec. 29	0845	150	2.35	Feb. 17	1545	182	2.54
Jan. 1	0900	138	2.27				

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	e0.03	0.03	2.3	82	10	29	3.8	2.5	0.78	0.39	0.14	0.04
2	e0.03	0.06	2.1	65	24	25	3.6	2.4	0.75	0.37	0.14	0.05
3	0.03	0.08	1.2	45	56	22	3.3	2.2	0.73	0.35	0.15	0.04
4	0.03	0.06	1.2	32	44	19	3.1	2.1	0.72	0.35	0.15	0.04
5	0.03	0.08	4.2	24	30	17	2.9	2.0	0.69	0.32	0.14	0.03
6	0.03	0.12	19	20	24	14	2.8	1.9	0.68	0.31	0.14	0.03
7	0.03	0.17	12	18	21	13	2.5	2.0	0.68	0.30	0.14	0.02
8	0.03	0.49	6.4	15	19	11	2.4	1.9	0.67	0.29	0.12	0.02
9	0.03	0.58	4.4	17	16	9.9	2.2	1.7	0.68	0.30	0.11	0.02
10	0.02	0.36	25	19	14	8.8	2.1	1.7	0.66	0.30	0.11	0.02
11	0.02	0.26	23	18	12	7.8	2.0	1.6	0.63	0.29	0.10	0.02
12	0.02	0.23	36	16	11	7.0	1.9	1.4	0.61	0.27	0.10	0.02
13	0.02	0.22	84	13	9.6	6.4	1.9	1.3	0.59	0.26	0.09	0.02
14	0.02	0.51	74	13	8.8	5.7	2.3	1.3	0.57	0.26	0.09	0.02
15	0.02	2.1	29	12	11	5.3	2.4	1.2	0.56	0.25	0.10	0.02
16	0.02	0.72	17	11	55	4.9	2.2	1.2	0.53	0.24	0.09	0.02
17	0.02	0.76	12	10	133	4.7	2.1	1.2	0.51	0.24	0.08	0.02
18	0.02	0.51	9.1	9.4	91	4.4	2.1	1.2	0.49	0.23	0.07	0.02
19	0.03	0.40	8.5	8.5	54	4.1	3.0	1.1	0.47	0.22	0.07	0.04
20	0.03	0.36	10	7.7	36	3.8	5.1	1.1	0.46	0.22	0.07	0.04
21	0.03	0.34	9.0	6.9	27	3.8	10	1.1	0.45	0.22	0.06	0.04
22	0.02	0.32	7.6	6.2	23	3.6	9.4	1.1	0.44	0.20	0.06	0.04
23	0.03	0.32	7.0	5.9	19	3.4	7.1	1.1	0.44	0.19	0.08	0.03
24	0.02	0.32	39	6.3	19	3.3	5.8	1.0	0.43	0.18	0.08	0.03
25	0.02	0.33	32	5.7	47	4.4	5.0	0.96	0.43	0.18	0.08	0.03
26	0.02	0.35	23	5.4	75	4.8	4.3	0.92	0.41	0.17	0.09	0.03
27	0.02	0.32	17	9.7	66	7.8	3.9	0.89	0.40	0.16	0.08	0.02
28	0.02	0.33	14	13	45	5.9	3.5	0.92	0.40	0.15	0.06	0.03
29	0.02	1.7	87	12	33	5.0	3.1	0.87	0.39	0.14	0.05	0.03
30	0.02	1.6	59	12	---	4.5	2.8	0.84	0.40	0.15	0.05	0.03
31	0.02	---	35	11	---	4.1	---	0.81	---	0.15	0.04	---
TOTAL	0.75	14.03	710.0	549.7	1033.4	273.4	108.6	43.51	16.65	7.65	2.93	0.86
MEAN	0.02	0.47	22.9	17.7	35.6	8.82	3.62	1.40	0.56	0.25	0.09	0.03
MAX	0.03	2.1	87	82	133	29	10	2.5	0.78	0.39	0.15	0.05
MIN	0.02	0.03	1.2	5.4	8.8	3.3	1.9	0.81	0.39	0.14	0.04	0.02
AC-FT	1.5	28	1410	1090	2050	542	215	86	33	15	5.8	1.7

e Estimated.

11472160 WILLITS CREEK ABOVE LAKE EMILY, NEAR WILLITS, CA—Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2003 - 2004, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	0.02	0.47	22.9	17.7	35.6	8.82	3.62	1.40	0.56	0.25	0.09	0.03
MAX	0.02	0.47	22.9	17.7	35.6	8.82	3.62	1.40	0.56	0.25	0.09	0.03
(WY)	2004	2004	2004	2004	2004	2004	2004	2004	2004	2004	2004	2004
MIN	0.02	0.47	22.9	17.7	35.6	8.82	3.62	1.40	0.56	0.25	0.09	0.03
(WY)	2004	2004	2004	2004	2004	2004	2004	2004	2004	2004	2004	2004

SUMMARY STATISTICS

FOR 2004 WATER YEAR

WATER YEARS 2003 - 2004

ANNUAL TOTAL	2761.48		
ANNUAL MEAN	7.55	7.55	
HIGHEST ANNUAL MEAN		7.55	2004
LOWEST ANNUAL MEAN		7.55	2004
HIGHEST DAILY MEAN	133	Feb 17	133 Feb 17 2004
LOWEST DAILY MEAN	0.02	Oct 10	0.02 Oct 10 2003
ANNUAL SEVEN-DAY MINIMUM	0.02	Oct 10	0.02 Oct 10 2003
MAXIMUM PEAK FLOW	182	Feb 17	182 Feb 17 2004
MAXIMUM PEAK STAGE	2.54	Feb 17	2.54 Feb 17 2004
ANNUAL RUNOFF (AC-FT)	5480		5470
10 PERCENT EXCEEDS	22		22
50 PERCENT EXCEEDS	0.88		0.88
90 PERCENT EXCEEDS	0.03		0.03

11472800 MIDDLE FORK EEL RIVER ABOVE BLACK BUTTE RIVER, NEAR COVELO, CA

LOCATION.—Lat 39°49'45", long 123°04'11", in SE 1/4 SE 1/4 sec.22, T.23 N., R.11 W., Mendocino County, Hydrologic Unit 18010104, on left bank, 1.2 mi upstream from Black Butte River, and 9.8 mi northeast of Covelo.

DRAINAGE AREA.—204 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.—October 1967 to September 1970, October 2001 to current year.

GAGE.—Water-stage recorder. Datum of gage is 1,446.47 ft above NGVD of 1929. Prior to Oct. 31, 1968, at datum 5.0 ft higher. Oct. 31, 1968, to September 1970 at different datum.

REMARKS.—Records good. No regulation or diversion upstream from station.

EXTREMES FOR PERIOD OF RECORD.—Maximum discharge, 48,400 ft³/s, Jan. 23, 1970, gage height, 16.08 ft, from rating curve extended above 10,000 ft³/s, at datum then in use, maximum gage height, 24.10 ft, Feb. 17, 2004; minimum daily, 3.5 ft³/s, Sept. 13–20, 1970.

EXTREMES FOR CURRENT YEAR.—Peak discharges greater than base discharge of 10,000 ft³/s, or maximum:

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Dec. 6	1515	11,100	19.17	Feb. 17	1700	21,800	24.10
Dec. 14	0200	14,500	20.76				

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.4	7.3	1030	1570	906	1300	944	591	172	44	11	6.0
2	7.4	7.7	739	1210	1160	1190	832	609	167	43	11	5.9
3	7.5	9.9	372	928	1130	1070	775	653	155	40	11	5.7
4	7.5	9.3	272	776	1010	953	837	634	146	37	10	5.8
5	7.3	9.2	1640	663	930	945	890	572	140	34	9.9	5.7
6	7.3	9.2	6590	629	880	906	880	523	131	32	9.8	5.6
7	7.2	10	3200	704	809	1130	838	504	125	30	9.8	5.5
8	7.1	15	1320	1540	722	1730	816	538	117	29	9.6	5.4
9	6.9	99	848	3350	660	2320	812	464	118	28	9.0	5.3
10	6.9	109	814	2820	608	2530	791	442	106	27	8.7	5.2
11	7.0	44	792	1910	587	2200	779	401	99	26	8.3	5.1
12	6.9	31	2270	1580	585	2140	737	359	94	25	8.1	5.2
13	7.0	27	8380	1640	573	2130	705	338	90	23	7.9	5.1
14	6.9	27	8170	1930	548	2190	623	330	86	22	7.6	5.2
15	6.9	145	2860	2370	683	2290	611	338	81	21	7.3	5.2
16	6.9	121	1660	1810	4930	2260	568	330	76	20	7.2	5.2
17	7.1	268	1170	1450	17000	2130	548	310	73	19	7.2	5.0
18	7.1	126	917	1260	11300	2110	519	307	71	19	7.1	5.0
19	7.0	75	1280	1170	5760	1900	533	283	67	18	7.0	5.2
20	7.0	65	2750	1070	3490	1580	839	309	63	18	6.8	5.6
21	7.0	60	1540	941	2520	1590	976	297	59	17	6.7	5.7
22	6.9	44	1160	831	1940	1620	916	271	57	17	6.7	5.6
23	6.9	36	1100	763	1560	1600	753	252	54	16	7.0	5.4
24	6.9	32	4010	988	1380	1320	720	234	53	15	7.2	5.3
25	6.9	29	2530	884	2120	1250	737	216	50	15	7.2	5.2
26	6.8	28	1620	773	2520	1000	798	208	48	14	7.4	5.0
27	6.7	27	1190	1320	1850	1110	803	226	46	13	7.4	5.0
28	6.7	25	974	1290	1460	1250	797	230	44	13	7.0	4.9
29	6.7	392	2610	1100	1270	1370	668	217	43	12	6.6	4.8
30	6.7	847	1830	1130	---	1390	598	191	43	12	6.3	4.9
31	7.1	---	1300	996	---	1140	---	179	---	11	6.2	---
TOTAL	217.6	2734.6	66938	41396	70891	49644	22643	11356	2674	710	250.0	159.7
MEAN	7.02	91.2	2159	1335	2445	1601	755	366	89.1	22.9	8.06	5.32
MAX	7.5	847	8380	3350	17000	2530	976	653	172	44	11	6.0
MIN	6.7	7.3	272	629	548	906	519	179	43	11	6.2	4.8
AC-FT	432	5420	132800	82110	140600	98470	44910	22520	5300	1410	496	317

11472800 MIDDLE FORK EEL RIVER ABOVE BLACK BUTTE RIVER, NEAR COVELO, CA—Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1968 - 2004, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	13.9	219	2147	3199	1596	1118	920	703	131	24.2	12.7	7.64
MAX	28.4	576	3910	5112	2848	1601	1639	1651	317	46.1	24.2	11.6
(WY)	1970	2002	2002	1970	1968	2004	1969	2003	1969	1969	1968	1968
MIN	4.37	63.1	513	1335	770	733	234	205	46.2	15.0	7.40	4.57
(WY)	2003	1968	1968	2004	2003	1970	1970	2002	1970	2002	1970	1970

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1968 - 2004	
ANNUAL TOTAL	348252.5		269613.9			
ANNUAL MEAN	954		737		841	
HIGHEST ANNUAL MEAN					1066	
LOWEST ANNUAL MEAN					565	
HIGHEST DAILY MEAN	11200	Jan 13	17000	Feb 17	33600	Jan 20 1969
LOWEST DAILY MEAN	6.7	Oct 27	4.8	Sep 29	3.5	Sep 13 1970
ANNUAL SEVEN-DAY MINIMUM	6.8	Oct 24	5.0	Sep 24	3.5	Sep 13 1970
MAXIMUM PEAK FLOW			21800	Feb 17	48400	Jan 23 1970
MAXIMUM PEAK STAGE			24.10	Feb 17	24.10	Feb 17 2004
ANNUAL RUNOFF (AC-FT)	690800		534800		609400	
10 PERCENT EXCEEDS	2500		1840		2090	
50 PERCENT EXCEEDS	373		212		177	
90 PERCENT EXCEEDS	7.6		6.7		7.2	

11472800 MIDDLE FORK EEL RIVER ABOVE BLACK BUTTE RIVER, NEAR COVELO, CA—Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.—November 1964 to September 1966, October 2002 to current year.

WATER TEMPERATURE: May to November 1966, October 1967 to September 1970, October 2002 to current year.

TURBIDITY: Water year 1968 (partial-record station).

SEDIMENT DATA: October 1967 to September 1970.

PERIOD OF DAILY RECORD.—

WATER TEMPERATURE: May 1966 to September 1970.

SEDIMENT DATA: Water year 1968, December 1966 to September 1970.

REMARKS.—Records rated excellent.

EXTREMES FOR PERIOD OF DAILY RECORD.—

WATER TEMPERATURE: Maximum recorded, 34.5°C, July 26, 1973; minimum recorded, 0.0°C, on many days in 1965–69, 1971, 1973, 1975.

EXTREMES FOR CURRENT YEAR.—

WATER TEMPERATURE: Maximum recorded, 27.4°C, July 26; minimum recorded 3.4°C, Dec. 27.

TEMPERATURE, WATER, DEGREES CELSIUS, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	19.5	17.2	11.0	9.4	7.4	7.0	6.1	4.8	5.8	4.8	6.8	5.8
2	19.1	16.9	10.1	9.2	8.2	7.2	5.1	4.4	5.8	4.9	7.2	5.1
3	19.3	16.7	10.8	9.1	8.0	7.3	4.7	3.5	5.9	4.6	6.7	5.1
4	19.7	17.7	10.2	8.7	7.8	7.1	5.0	4.1	6.5	5.3	7.5	5.1
5	19.8	17.5	11.0	9.4	8.4	7.8	4.8	4.1	6.4	4.9	7.0	5.6
6	19.7	17.2	10.7	10.0	8.7	8.2	5.6	4.8	6.2	5.7	8.1	6.0
7	19.5	17.2	11.3	10.5	8.2	6.7	5.8	5.1	5.8	4.8	8.9	6.2
8	18.9	16.7	11.1	10.6	6.7	5.7	6.1	5.0	5.5	4.0	8.5	6.2
9	18.1	16.3	10.6	9.5	6.0	5.7	6.0	4.7	5.7	4.1	8.8	6.4
10	16.6	14.5	10.0	8.6	5.9	5.1	6.6	5.5	5.8	4.0	8.3	6.0
11	16.0	13.7	9.5	8.0	5.9	5.2	6.7	5.7	6.0	4.2	8.4	6.0
12	16.4	14.1	9.6	8.0	6.5	5.5	6.7	5.7	5.9	4.4	8.9	6.3
13	15.8	13.3	9.7	7.9	7.6	6.0	6.8	5.8	5.4	4.8	9.0	6.5
14	15.8	13.3	9.7	9.2	7.4	6.0	7.0	6.3	6.4	5.2	9.2	6.8
15	15.0	13.3	9.3	8.4	6.0	5.2	6.7	5.8	6.4	5.9	9.3	6.8
16	15.8	13.2	8.6	8.1	6.0	5.2	6.5	5.3	6.6	6.0	9.2	6.8
17	16.3	13.9	9.2	8.3	6.1	5.1	6.4	5.2	6.7	6.3	9.4	6.6
18	16.2	14.2	8.6	7.3	6.2	5.1	7.3	6.2	7.2	6.4	9.3	7.0
19	16.1	14.0	9.2	7.7	6.3	5.7	6.6	5.4	6.9	6.4	8.8	6.5
20	16.6	14.3	9.7	8.2	7.1	6.2	6.4	5.1	7.2	6.0	9.5	6.7
21	16.5	14.1	8.3	6.6	6.9	5.9	5.6	4.6	6.7	6.1	9.6	7.4
22	15.7	14.2	6.6	5.4	6.6	5.6	5.1	3.9	6.9	6.3	10.2	7.7
23	15.8	13.7	5.8	4.5	6.9	6.5	5.5	3.7	7.6	6.2	9.5	7.5
24	15.3	13.0	6.0	4.7	7.1	6.5	6.2	5.3	7.0	6.2	8.3	7.3
25	15.5	13.1	5.8	4.5	6.5	5.6	5.6	4.0	6.5	5.5	7.9	5.7
26	15.8	13.5	7.3	5.5	5.6	4.3	4.9	4.0	5.5	5.1	5.9	5.2
27	15.9	13.7	6.4	5.2	4.3	3.4	5.8	4.9	6.9	5.3	8.8	5.8
28	16.1	13.8	7.3	6.2	4.2	3.7	6.0	4.5	6.8	5.0	9.5	6.2
29	15.6	13.5	8.0	6.9	6.0	4.0	6.8	5.1	6.8	5.2	9.9	7.1
30	13.5	12.2	7.4	6.8	6.4	5.2	6.5	5.6	---	---	9.4	7.7
31	12.3	10.8	---	---	6.4	6.0	5.6	4.2	---	---	8.6	6.2
MONTH	19.8	10.8	11.3	4.5	8.7	3.4	7.3	3.5	7.6	4.0	10.2	5.1

11472800 MIDDLE FORK EEL RIVER ABOVE BLACK BUTTE RIVER, NEAR COVELO, CA—Continued

TEMPERATURE, WATER, DEGREES CELSIUS, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	8.8	5.8	13.7	10.2	19.1	14.5	22.7	20.2	25.8	22.6	23.7	21.2
2	9.1	6.2	14.3	10.8	19.2	14.9	22.9	19.7	25.7	22.5	22.7	20.4
3	10.4	7.0	14.9	11.5	19.7	15.5	23.6	20.2	25.4	22.0	22.1	19.5
4	10.9	7.9	14.2	11.0	20.2	15.5	24.8	21.3	25.1	21.7	22.3	19.3
5	10.1	8.2	13.6	10.5	20.1	15.9	25.3	22.2	24.2	21.4	22.6	19.8
6	10.8	8.0	13.3	10.8	19.8	15.7	25.9	22.9	24.4	20.7	23.1	20.1
7	10.6	7.6	12.1	10.5	18.8	15.3	25.4	22.9	25.1	21.1	23.2	20.3
8	11.4	8.2	12.2	9.8	16.6	13.6	25.3	22.7	25.6	21.7	23.2	20.5
9	11.7	8.6	13.1	9.6	17.9	13.0	24.8	22.6	25.6	22.3	23.0	20.3
10	11.6	8.6	12.9	10.4	18.7	13.6	24.2	21.7	25.7	22.0	22.4	19.9
11	11.5	8.6	12.8	9.6	18.8	14.2	24.3	21.4	25.6	22.1	22.6	19.9
12	11.3	8.5	13.7	9.9	19.7	14.8	24.4	21.6	26.0	22.4	22.3	20.4
13	10.6	9.2	14.5	11.0	20.4	15.5	24.1	21.3	25.9	22.7	21.8	19.4
14	9.3	8.1	15.0	11.3	20.9	16.3	24.0	21.2	25.5	22.6	21.4	18.8
15	9.7	6.9	16.1	12.5	21.8	16.8	24.1	20.9	25.2	22.2	21.5	18.7
16	8.7	7.1	15.0	12.0	22.6	17.7	24.5	21.2	24.6	21.5	21.3	19.0
17	9.2	7.0	13.4	11.8	23.2	18.7	24.9	21.9	24.6	21.4	20.4	18.9
18	8.0	7.1	13.9	11.5	23.0	18.9	24.7	22.0	25.2	21.8	19.5	17.9
19	7.7	6.9	15.1	11.2	22.7	18.9	23.8	21.8	25.2	22.4	18.3	16.9
20	8.1	7.2	13.3	11.1	22.3	18.5	24.8	21.1	25.7	22.6	17.9	15.4
21	9.9	7.3	14.7	11.1	22.7	18.6	25.9	22.2	25.4	22.8	17.9	15.2
22	10.2	6.3	15.5	11.7	23.0	19.1	26.6	22.9	24.2	22.6	18.4	15.6
23	11.3	7.7	15.5	12.0	23.0	19.6	27.1	23.4	24.0	21.5	18.8	16.0
24	12.2	8.8	15.5	12.2	22.6	19.1	26.7	23.7	24.4	21.8	19.4	16.6
25	13.1	9.6	16.0	12.4	22.5	19.1	27.2	23.6	23.1	21.2	19.3	16.9
26	13.2	10.2	18.0	13.1	22.4	19.1	27.4	23.9	23.2	20.2	18.6	16.9
27	13.3	9.9	17.2	15.0	22.7	18.9	27.2	23.8	23.3	19.8	18.9	16.5
28	12.6	9.9	15.9	13.9	22.4	20.2	26.8	23.4	23.6	20.2	18.8	16.6
29	12.3	9.0	16.2	12.0	22.8	20.1	26.8	23.4	23.8	20.7	19.0	16.7
30	12.9	9.4	17.6	12.9	22.6	20.0	26.6	23.4	23.9	21.1	19.1	16.8
31	---	---	18.5	14.2	---	---	26.1	23.1	23.9	21.1	---	---
MONTH	13.3	5.8	18.5	9.6	23.2	13.0	27.4	19.7	26.0	19.8	23.7	15.2

CROSS-SECTION ANALYSIS, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Time	Depth at sample location, feet (81903)	Temperature, water, deg C (00010)	Location in X-sect. looking dwnstrm 1 bank (00009)
AUG 2004				
10...	1220	.37	23.6	1.30
10...	1225	.40	23.5	3.50
10...	1230	.43	23.5	5.90
10...	1235	.41	23.6	8.30
10...	1240	.40	23.7	10.7
10...	1245	.44	23.8	13.3
10...	1250	.30	24.0	18.3

* Instantaneous discharge at time of cross-sectional measurement: Aug. 10, 8.86 ft³/s.

11472900 BLACK BUTTE RIVER NEAR COVELO, CA

LOCATION.—Lat 39°49'15", long 123°04'50", in SE 1/4 sec.28, T.23 N., R.11 W., Mendocino County, Hydrologic Unit 18010104, on right bank 10 ft upstream from old highway bridge abutment, 0.5 mi upstream from mouth, and 9.5 mi east of Covelo.

DRAINAGE AREA.—162 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.—Occasional low-flow measurements, water years 1951–56, and annual maximum, water years 1954–57, October 1958 to September 1975, October 2001 to current year.

REVISIONS (WATER YEARS).—WSP 1715: 1959(M).

GAGE.—Water-stage recorder. Datum of gage is 1,450.20 ft above NGVD of 1929. Sept. 10, 1953, to Sept. 30, 1957, crest-stage gage only at same site at different datum. Oct. 1, 1958, to Sep. 22, 1964, water-stage recorder at site 0.1 mi upstream at same datum. December 1964 to September 1975 at same site 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 Eel River Basin.

EXTREMES FOR PERIOD OF RECORD.—Maximum discharge, 29,000 ft³/s, Dec. 22, 1964, gage height, 26.4 ft, from floodmarks at site and datum then in use; minimum daily, 0.76 ft³/s, Sept. 27, 2002.

EXTREMES OUTSIDE PERIOD OF RECORD.—Flood of Dec. 11, 1947, reached a stage of 36.2 ft, from floodmarks at crest-stage site (discharge, 26,000 ft³/s).

EXTREMES FOR CURRENT YEAR.—Peak discharges greater than base discharge of 7,500 ft³/s, or maximum:

Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Feb. 17	1730	14,200	18.34

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.9	4.8	420	1430	294	783	387	190	56	26	e6.1	3.8
2	2.9	5.1	315	910	684	740	352	187	53	23	e6.0	3.7
3	3.0	5.8	129	580	667	677	360	186	50	19	e5.9	3.7
4	3.1	6.0	76	426	543	593	344	182	47	18	e5.7	3.7
5	3.0	5.8	325	343	447	583	341	173	44	16	e5.5	3.5
6	3.1	5.9	1580	319	432	582	329	164	42	15	e5.2	3.4
7	3.1	6.2	945	389	421	663	323	161	41	14	e5.0	3.3
8	3.2	13	319	745	360	789	317	163	42	14	e4.8	3.2
9	3.3	78	176	1520	315	864	318	147	50	14	e4.6	3.2
10	3.4	56	349	1390	279	829	298	143	43	13	4.6	3.1
11	3.4	22	362	878	258	755	297	137	39	13	4.5	3.1
12	3.5	15	1130	688	240	742	288	129	37	12	4.5	3.1
13	3.5	12	3020	629	222	684	271	122	34	12	4.5	3.0
14	3.5	12	3010	670	207	694	272	115	32	11	4.2	3.2
15	3.5	81	915	769	346	721	267	110	30	11	4.2	3.3
16	3.6	44	483	604	3370	689	262	106	28	10	4.2	3.3
17	3.5	69	326	497	10800	655	258	102	26	10	4.4	3.2
18	3.6	35	241	433	5590	641	238	101	25	9.6	4.5	3.1
19	3.5	22	392	397	2400	619	238	102	24	9.5	4.5	3.3
20	3.5	18	1010	354	1500	576	294	102	23	9.5	4.6	3.6
21	3.6	17	589	302	1110	545	308	110	22	9.2	4.4	4.1
22	3.6	14	417	261	876	553	277	99	21	8.7	4.3	4.0
23	3.6	12	489	238	698	543	256	89	21	8.2	4.8	3.8
24	3.7	11	2370	315	608	479	267	83	20	7.8	5.1	3.5
25	3.6	10	1330	259	1620	528	234	78	19	7.4	5.1	3.5
26	3.6	10	699	225	2130	482	238	74	18	7.1	5.2	3.5
27	3.6	10	458	395	1370	571	239	70	18	6.6	5.3	3.3
28	3.6	9.6	357	390	997	504	231	72	18	6.5	4.9	3.1
29	3.6	220	2640	315	812	479	217	72	24	e6.3	4.3	3.1
30	3.7	235	1340	370	---	456	199	64	26	e6.3	4.1	3.2
31	4.1	---	752	316	---	429	---	60	---	e6.2	3.9	---
TOTAL	106.4	1065.2	26964	17357	39596	19448	8520	3693	973	359.9	148.9	101.9
MEAN	3.43	35.5	870	560	1365	627	284	119	32.4	11.6	4.80	3.40
MAX	4.1	235	3020	1520	10800	864	387	190	56	26	6.1	4.1
MIN	2.9	4.8	76	225	207	429	199	60	18	6.2	3.9	3.0
AC-FT	211	2110	53480	34430	78540	38580	16900	7330	1930	714	295	202

e Estimated.

EEL RIVER BASIN

11472900 BLACK BUTTE RIVER NEAR COVELO, CA—Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1959 - 2004, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	21.9	160	691	975	722	602	489	289	69.7	18.1	6.73	4.65
MAX	231	1183	3542	2876	1434	1628	1273	783	207	39.4	12.7	10.9
(WY)	1963	1974	1965	1970	1968	1975	1963	2003	1967	1975	1975	1972
MIN	1.28	4.69	10.0	91.6	250	160	167	67.8	21.8	5.40	1.42	0.98
(WY)	2003	1960	1960	1960	1964	1964	1970	2002	2002	2002	2002	2002

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1959 - 2004	
ANNUAL TOTAL	152769.5		118333.3			
ANNUAL MEAN	419		323		336	
HIGHEST ANNUAL MEAN					624	
LOWEST ANNUAL MEAN					124	
HIGHEST DAILY MEAN	4800	Jan 13	10800	Feb 17	25000	Dec 22 1964
LOWEST DAILY MEAN	2.9	Sep 28	2.9	Oct 1	0.76	Sep 27 2002
ANNUAL SEVEN-DAY MINIMUM	2.9	Sep 27	3.0	Oct 1	0.84	Sep 23 2002
MAXIMUM PEAK FLOW			14200	Feb 17	29000	Dec 22 1964
MAXIMUM PEAK STAGE			18.34	Feb 17	26.40	Dec 22 1964
ANNUAL RUNOFF (AC-FT)	303000		234700		243600	
10 PERCENT EXCEEDS	1170		743		790	
50 PERCENT EXCEEDS	166		72		76	
90 PERCENT EXCEEDS	3.6		3.5		4.2	

11472900 BLACK BUTTE RIVER NEAR COVELO, CA—Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.—November 1964 to September 1966, November 2001 to current year.

SPECIFIC CONDUCTANCE: October 1966 to September 1968.

WATER TEMPERATURE: May 1964 to September 1975, November 2001 to current year.

SEDIMENT DATA: Water year 1966 (partial-record station), December 1966 to September 1973.

TURBIDITY: Water years 1966–68 (partial-record station).

PERIOD OF DAILY RECORD.—

SPECIFIC CONDUCTANCE: October 1966 to September 1968.

WATER TEMPERATURE: May 1964 to September 1975, November 2001 to current year.

SEDIMENT DATA: Water year 1966 (partial-record station), December 1966 to September 1973.

REMARKS.—Records excellent except for March 7–30, April 21 to May 5, which are good; May 6–25, which are fair; and May 26 to June 9, which are poor. Interruptions in record were due to malfunction of sensing and (or) recording instruments.

EXTREMES FOR PERIOD OF DAILY RECORD.—

WATER TEMPERATURE: Maximum recorded, 34.5°C, July 26, 1973; minimum recorded, 0.0°C, many days in 1965–69, 1971, 1973, 1975.

EXTREMES FOR CURRENT YEAR.—

WATER TEMPERATURE: Maximum recorded, 29.8°C, Aug. 9; minimum recorded 2.6°C, Dec. 27.

TEMPERATURE, WATER, DEGREES CELSIUS, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	21.6	15.7	11.9	7.4	8.0	7.1	6.0	4.5	5.8	4.2	7.1	5.9
2	21.0	15.7	9.5	7.4	8.8	7.2	4.6	3.8	5.7	4.7	7.2	5.0
3	21.6	15.6	11.0	7.5	8.4	7.2	3.9	2.7	6.2	4.5	6.3	4.7
4	22.0	17.2	10.2	6.1	8.1	6.7	4.1	2.9	6.9	5.3	7.3	4.8
5	21.8	16.5	11.1	8.0	9.3	8.1	4.1	2.8	6.4	4.3	6.9	5.2
6	22.0	15.5	9.7	8.5	9.5	8.5	5.1	4.0	6.4	5.1	8.2	5.8
7	22.0	16.2	11.1	9.3	8.5	6.7	6.1	4.7	5.7	4.1	8.9	5.9
8	21.0	15.0	10.7	9.9	6.7	5.2	7.0	5.6	5.3	3.2	9.0	6.3
9	20.3	15.3	9.9	8.9	5.9	5.4	6.5	5.2	5.8	3.3	9.5	6.9
10	18.6	12.6	9.8	7.7	6.9	5.7	6.4	5.1	5.8	3.1	8.9	6.6
11	17.9	11.8	9.5	6.7	6.3	5.2	6.2	5.0	6.0	3.2	8.9	6.2
12	18.6	13.0	9.6	6.7	7.0	5.4	6.8	5.1	6.5	3.6	9.5	6.6
13	17.4	11.6	9.6	6.4	7.8	6.6	6.6	5.4	5.4	4.0	9.6	6.7
14	17.4	11.5	9.4	8.6	7.8	5.3	7.2	6.0	7.0	4.7	10.0	7.2
15	15.7	10.9	9.2	8.5	5.3	4.3	7.1	6.1	6.5	5.9	10.1	7.3
16	17.8	11.5	9.3	8.1	5.4	4.2	6.3	4.9	7.0	6.1	10.2	7.1
17	18.1	12.4	10.1	8.2	5.5	4.1	6.3	4.6	7.4	6.9	10.2	7.0
18	17.5	12.3	9.0	6.8	5.4	4.1	7.3	6.0	7.2	6.7	10.4	7.5
19	17.0	12.1	9.6	7.0	6.6	5.2	6.6	5.6	6.9	6.1	9.7	6.8
20	18.2	12.5	10.7	8.1	7.1	6.1	6.0	5.0	7.2	5.9	10.3	6.9
21	17.8	11.9	8.3	6.0	6.7	5.4	5.3	3.8	6.7	5.9	10.7	7.6
22	16.0	12.3	6.2	4.1	6.7	5.0	4.5	2.9	7.0	6.1	11.3	8.1
23	17.3	12.0	5.5	2.9	7.3	6.3	5.2	2.8	7.4	6.3	10.5	7.9
24	16.5	11.0	5.8	3.1	7.4	6.7	6.6	5.2	7.0	6.2	9.2	7.3
25	17.1	11.7	5.0	3.0	6.7	5.2	5.2	3.5	6.5	6.1	8.5	6.5
26	17.1	12.0	7.5	4.8	5.2	3.6	4.8	3.4	6.2	5.6	6.9	5.8
27	17.3	12.2	6.0	3.7	3.7	2.6	6.2	4.8	6.7	5.3	10.0	6.3
28	17.3	12.3	7.0	5.5	4.1	2.7	5.8	4.1	6.7	5.1	10.6	6.5
29	16.6	12.0	8.2	7.0	6.2	4.1	6.4	4.4	6.8	5.1	10.8	7.4
30	13.9	9.8	8.2	7.2	6.0	4.7	6.7	5.2	---	---	9.9	8.2
31	12.1	9.5	---	---	6.3	5.7	5.2	3.5	---	---	10.2	7.0
MONTH	22.0	9.5	11.9	2.9	9.5	2.6	7.3	2.7	7.4	3.1	11.3	4.7

11472900 BLACK BUTTE RIVER NEAR COVELO, CA—Continued

TEMPERATURE, WATER, DEGREES CELSIUS, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	9.8	6.0	17.3	11.3	23.5	16.5	25.0	19.3	---	---	26.8	19.4
2	10.3	6.4	18.2	11.9	23.6	16.7	26.9	18.0	---	---	25.8	18.2
3	11.5	7.0	19.0	13.0	24.0	17.8	---	---	---	---	25.6	17.2
4	12.2	8.0	18.4	12.7	24.9	17.6	---	---	---	---	26.2	17.4
5	10.8	8.5	17.4	12.2	24.7	18.2	---	---	26.9	19.4	26.3	17.6
6	11.9	8.2	17.0	12.2	24.1	17.5	---	---	27.9	18.8	26.7	17.4
7	12.1	8.0	14.3	11.7	22.7	17.0	---	---	29.5	19.7	26.7	17.4
8	13.1	8.5	16.1	11.3	20.5	14.8	---	---	29.6	19.7	26.7	18.2
9	13.5	9.1	16.9	10.7	21.7	14.5	---	---	29.8	20.0	26.4	18.3
10	13.5	9.1	16.2	11.7	22.1	14.6	---	---	29.0	18.9	25.6	17.6
11	13.3	9.2	16.6	10.6	22.2	14.7	---	---	28.8	19.4	25.8	17.8
12	13.4	9.2	17.3	10.6	23.4	15.4	---	---	29.6	19.7	26.0	19.3
13	11.9	10.1	18.1	11.6	24.2	16.1	---	---	29.5	20.5	25.0	17.4
14	10.8	9.0	18.6	12.1	25.2	17.0	---	---	28.9	20.6	24.9	17.0
15	10.1	7.8	19.8	13.9	26.1	17.4	---	---	28.6	20.3	24.8	17.1
16	10.0	7.8	18.7	13.2	26.9	18.2	---	---	28.0	19.2	25.1	17.8
17	11.0	7.8	16.3	13.1	27.5	19.0	---	---	28.4	19.7	22.8	17.1
18	9.1	7.3	18.1	12.8	27.7	19.3	---	---	29.2	20.6	22.7	16.3
19	8.9	7.4	18.2	12.3	27.9	18.7	---	---	28.6	20.3	19.9	15.6
20	9.8	8.0	16.9	12.8	27.0	17.8	---	---	29.6	21.1	21.0	12.9
21	11.8	8.6	18.8	12.1	27.7	18.4	---	---	28.9	20.6	21.0	12.5
22	12.5	7.0	19.1	12.7	27.7	18.8	---	---	24.9	21.2	21.6	13.2
23	13.7	8.3	19.5	13.6	27.6	19.2	---	---	26.8	19.5	21.8	13.5
24	14.9	9.6	19.5	13.8	28.2	18.2	---	---	28.0	20.8	22.4	14.0
25	15.9	10.6	19.9	13.9	27.9	17.9	---	---	24.1	19.3	22.2	14.1
26	16.2	11.5	22.2	15.0	28.1	17.2	---	---	26.5	18.0	19.6	14.6
27	16.5	11.3	20.6	17.4	28.8	17.5	---	---	26.8	18.1	21.5	13.3
28	16.0	11.4	19.1	16.2	28.3	19.0	---	---	27.4	18.1	21.8	13.6
29	15.5	10.4	20.3	13.1	26.8	18.7	---	---	27.5	18.3	21.9	14.9
30	16.5	10.6	21.8	14.7	26.1	19.5	---	---	27.0	18.8	21.9	15.2
31	---	---	22.9	16.1	---	---	---	---	27.2	18.7	---	---
MONTH	16.5	6.0	22.9	10.6	28.8	14.5	---	---	---	---	26.8	12.5

CROSS-SECTION ANALYSES, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Time	Depth at sample location, feet (81903)	Temperature, water, deg C (00010)	Location in X-sect. looking downstrm ft from 1 bank (00009)
FEB				
05...*	1008	1.91	4.8	100
05...*	1013	1.46	4.8	80.0
05...*	1020	1.61	4.8	60.0
05...*	1025	2.02	4.8	40.0
05...*	1033	1.45	4.9	20.0
05...*	1043	1.40	4.9	.00

* Instantaneous discharge at time of the cross-sectional measurement: Feb. 5, 465 ft³/s.

11473900 MIDDLE FORK EEL RIVER NEAR DOS RIOS, CA

LOCATION.—Lat 39°42'23", long 123°19'27", in NE 1/4 SE 1/4 sec.5, T.21 N., R.13 W., [Mendocino County](#), Hydrologic Unit 18010104, on right bank, 0.6 mi upstream from Eastman Creek, 1.9 mi upstream from mouth, and 1.7 mi southeast of Dos Rios.

DRAINAGE AREA.—745 mi².

PERIOD OF RECORD.—October 1965 to current year.

CHEMICAL DATA: Water years 1959–66

SPECIFIC CONDUCTANCE: October 1966 to September 1967.

WATER TEMPERATURE: Water years 1958–83.

SEDIMENT RECORDS: Water years 1966–76.

GAGE.—Water-stage recorder and crest-stage gage. Datum of gage is 901.58 ft above NGVD of 1929.

REMARKS.—Records good except for estimated daily discharges, which are fair. No regulation or diversion upstream from station. See schematic diagram of [Eel River Basin](#).

EXTREMES FOR PERIOD OF RECORD.—Maximum discharge, 135,000 ft³/s, Jan. 1, 1997, gage height, 31.46 ft, from rating curve extended above 52,000 ft³/s, maximum gage height, 32.86 ft, Jan. 4, 1966; minimum daily, 0.39 ft³/s, Sept. 1, 1994.

EXTREMES FOR CURRENT YEAR.—Peak discharges greater than base discharge of 25,000 ft³/s, or maximum:

Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Feb. 17	1730	59,700	21.46

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	14	9.3	1950	e7570	2110	3800	1650	964	271	86	16	5.3
2	13	10	1870	e5410	4360	3480	1490	979	259	88	15	4.9
3	13	13	963	e3500	4960	2940	1380	1010	246	84	14	4.8
4	13	15	603	e2600	3660	2620	1390	995	230	76	14	4.3
5	13	19	2120	e2350	3010	2490	1440	918	212	71	14	4.1
6	13	18	10500	1980	2690	2360	1440	811	200	70	15	4.2
7	12	19	7150	2320	2730	2410	1380	744	191	60	13	4.2
8	12	32	2800	2870	2350	2880	1330	823	187	51	13	4.1
9	12	165	1750	6000	2150	3350	1310	701	238	48	13	4.1
10	11	364	3320	6010	1990	3660	1280	639	202	46	12	3.8
11	11	176	2900	4200	1880	3220	1250	599	178	42	12	3.7
12	11	108	3000	3370	1810	3040	1210	543	166	41	11	3.8
13	11	84	12100	3170	1730	2960	1170	507	157	41	9.8	3.7
14	11	78	14400	3310	1690	2900	1090	485	150	37	8.8	3.6
15	10	305	e5160	4190	2390	2980	1100	478	145	36	8.2	3.5
16	9.7	402	e3030	3300	12800	2960	1030	470	138	34	7.7	3.7
17	9.5	411	e2280	2780	43000	2790	1010	452	131	32	7.4	4.1
18	9.5	350	e1920	2480	25400	2730	943	448	122	30	7.1	4.4
19	9.5	194	e1810	2310	10700	2630	951	439	116	31	7.1	5.3
20	9.7	149	4690	2160	7130	2330	1510	442	110	32	7.1	5.8
21	9.5	141	2840	1980	5300	2260	1570	460	104	31	6.9	5.3
22	9.2	123	2200	1810	4260	2250	1600	437	100	29	6.4	5.1
23	9.2	100	2150	1700	3490	2300	1320	407	95	23	6.4	5.8
24	9.2	86	8280	1970	3350	2060	1220	383	90	22	6.2	6.4
25	9.0	77	5970	1870	8150	2080	1180	358	86	20	6.2	6.2
26	9.1	75	e3250	1700	11700	2150	1220	338	81	22	7.1	6.0
27	9.1	71	e2440	2550	7540	2050	1260	337	78	19	7.5	6.1
28	9.0	67	e2220	3020	4980	2120	1260	339	76	18	7.6	6.2
29	9.0	283	e9310	2330	3880	2040	1100	348	77	17	7.7	6.1
30	8.8	1610	e5940	2400	---	2040	996	312	83	16	7.2	5.1
31	8.9	---	3650	2240	---	1850	---	287	---	16	6.0	---
TOTAL	327.9	5554.3	132566	95450	191190	81730	38080	17453	4519	1269	300.4	143.7
MEAN	10.6	185	4276	3079	6593	2636	1269	563	151	40.9	9.69	4.79
MAX	14	1610	14400	7570	43000	3800	1650	1010	271	88	16	6.4
MIN	8.8	9.3	603	1700	1690	1850	943	287	76	16	6.0	3.5
AC-FT	650	11020	262900	189300	379200	162100	75530	34620	8960	2520	596	285

e Estimated.

11473900 MIDDLE FORK EEL RIVER NEAR DOS RIOS, CA—Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1966 - 2004, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	87.8	1068	2602	4287	3580	3361	2071	1259	403	80.8	24.6	21.6
MAX	475	6823	7477	13540	12870	8622	6632	3852	1868	316	63.9	172
(WY)	1980	1974	1997	1970	1986	1983	1982	1983	1998	1998	1998	1986
MIN	5.11	26.9	30.5	94.3	172	384	333	241	75.6	13.2	4.33	1.04
(WY)	1995	1996	1977	1977	1977	1977	1977	1977	2001	1977	1994	1994

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1966 - 2004	
ANNUAL TOTAL	712539.2		568583.3			
ANNUAL MEAN	1952		1554		1563	
HIGHEST ANNUAL MEAN					3351	
LOWEST ANNUAL MEAN					121	
HIGHEST DAILY MEAN	20500	Jan 13	43000	Feb 17	81200	Jan 1 1997
LOWEST DAILY MEAN	8.8	Oct 30	3.5	Sep 15	0.39	Sep 1 1994
ANNUAL SEVEN-DAY MINIMUM	9.0	Oct 25	3.7	Sep 10	0.42	Aug 28 1994
MAXIMUM PEAK FLOW			59700	Feb 17	135000	Jan 1 1997
MAXIMUM PEAK STAGE			21.46	Feb 17	32.86	Jan 4 1966
ANNUAL RUNOFF (AC-FT)	1413000		1128000		1132000	
10 PERCENT EXCEEDS	5200		3480		3890	
50 PERCENT EXCEEDS	799		344		344	
90 PERCENT EXCEEDS	14		7.0		14	

11474500 NORTH FORK EEL RIVER NEAR MINA, CA

LOCATION.—Lat 39°56'15", long 123°20'45", in SW 1/4 sec.8, T.24 N., R.13 W., Mendocino County, Hydrologic Unit 18010105, on right bank, 0.2 mi upstream from county road bridge, 1.4 mi upstream from Asbill Creek, and 2 mi south of Mina.

DRAINAGE AREA.—248 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.—August 1953 to September 1976, October 2001 to current year.

GAGE.—Water-stage recorder. Datum of gage is 1,016.8 ft above NGVD of 1929. Aug. 27, 1953, to Jan. 15, 1954, water-stage recorder and Jan. 16 to June 22, 1954, nonrecording gage, at site 0.4 mi downstream at different datums. June 23, 1954, to Dec. 21, 1964, water-stage recorder and Feb. 7 to July 8, 1965, non-recording gage at site 0.2 mi downstream at different datums. July 9, 1965, to Aug. 20, 1967, water-stage recorder at site 0.6 mi downstream at datum 15.1 ft lower.

REMARKS.—Records good except for estimated discharges, which are fair. No regulation or diversion above station.

EXTREMES FOR PERIOD OF RECORD.—Maximum discharge, 133,000 ft³/s, Dec. 22, 1964, gage height, 34.5 ft, from floodmarks, present site, different datum, from rating curve extended above 12,000 ft³/s, on basis of slope-area measurement of maximum flow; minimum, 0.08 ft³/s, several days in October 2002.

EXTREMES FOR CURRENT YEAR.—Peak discharges greater than base discharge of 9,000 ft³/s, or maximum:

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Dec. 6	1430	9,300	14.57	Dec. 29	0945	12,800	16.07
Dec. 14	0330	14,700	16.77	Feb. 17	1445	24,400	19.90

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.4	2.0	922	5510	817	2020	276	127	33	11	2.7	0.57
2	1.4	2.4	719	3580	2510	1780	250	118	31	10	2.7	0.53
3	1.5	3.6	264	2150	2870	1440	229	110	29	10	2.6	0.41
4	1.6	3.8	154	1530	2090	1240	212	103	27	9.8	3.0	0.41
5	1.6	3.7	723	1200	1610	1090	198	98	25	9.2	2.2	0.41
6	1.5	3.6	4400	1100	1410	959	187	92	24	8.5	1.9	0.41
7	1.5	3.8	2620	1860	1410	878	173	88	24	7.8	1.7	0.42
8	1.5	7.4	1220	3160	1160	852	164	104	24	7.4	1.5	0.36
9	1.5	193	753	4640	1000	796	156	86	24	7.0	1.4	0.36
10	1.4	200	2490	3540	870	728	149	79	26	6.7	1.3	0.35
11	1.4	54	2450	2230	770	631	141	77	24	6.5	1.2	0.31
12	1.5	29	3450	1710	689	565	131	71	23	6.3	1.1	0.31
13	1.5	21	7280	1520	623	510	128	65	22	6.0	0.98	0.29
14	1.6	19	7350	1720	592	461	137	61	21	5.7	0.90	0.29
15	1.6	308	2490	1850	839	418	195	58	21	5.4	0.84	0.31
16	1.6	186	1400	1380	5800	379	178	56	19	5.2	0.76	0.29
17	1.6	235	943	1100	17600	346	160	55	18	4.9	0.69	0.29
18	1.7	128	698	895	9940	315	155	60	17	4.7	0.66	0.30
19	1.7	68	968	761	4380	283	171	61	16	4.7	0.65	0.31
20	1.8	47	2510	659	2700	256	483	61	15	4.7	0.64	0.33
21	1.8	38	1260	557	1900	239	631	61	15	4.6	0.59	0.29
22	1.7	30	895	476	1570	226	526	57	14	4.5	0.59	0.29
23	1.7	26	1150	428	1320	214	355	50	14	4.2	0.63	0.29
24	1.7	22	4780	696	1390	196	277	47	14	3.9	0.62	0.31
25	1.7	20	3370	555	4480	363	235	44	13	3.7	0.64	0.32
26	1.8	20	1970	470	7330	698	204	41	12	3.5	0.65	0.33
27	1.9	21	1280	1510	4340	905	176	39	12	3.3	0.60	0.32
28	1.8	21	1020	1520	2670	564	162	38	12	3.1	0.56	0.34
29	1.8	439	7270	1030	1910	450	151	40	12	3.0	0.54	0.47
30	1.8	767	4160	1080	---	378	139	37	11	2.9	0.58	0.56
31	1.9	---	2210	929	---	332	---	35	---	2.7	0.60	---
TOTAL	50.5	2922.3	73169	51346	86590	20512	6729	2119	592	180.9	36.02	10.78
MEAN	1.63	97.4	2360	1656	2986	662	224	68.4	19.7	5.84	1.16	0.36
MAX	1.9	767	7350	5510	17600	2020	631	127	33	11	3.0	0.57
MIN	1.4	2.0	154	428	592	196	128	35	11	2.7	0.54	0.29
AC-FT	100	5800	145100	101800	171800	40690	13350	4200	1170	359	71	21

11474500 NORTH FORK EEL RIVER NEAR MINA, CA—Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1954 - 2004, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	63.5	438	1596	1873	1638	1184	675	237	44.3	10.8	4.17	4.01
MAX	746	2637	7834	3948	5335	3493	2466	905	104	28.3	10.4	24.5
(WY)	1963	1974	1965	1965	1958	1975	1963	1967	1958	1958	1976	1957
MIN	0.09	4.52	30.1	224	242	160	102	55.9	18.2	3.09	0.48	0.13
(WY)	2003	1960	1960	1976	1971	1965	1970	1959	1959	2002	2002	2002

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1954 - 2004	
ANNUAL TOTAL	282723.7		244257.50			
ANNUAL MEAN	775		667		644	
HIGHEST ANNUAL MEAN					1181 1965	
LOWEST ANNUAL MEAN					281 1976	
HIGHEST DAILY MEAN	8570	Mar 15	17600	Feb 17	90000	Dec 22 1964
LOWEST DAILY MEAN	1.2	Sep 30	0.29	Sep 13	0.08	Oct 2 2002
ANNUAL SEVEN-DAY MINIMUM	1.3	Sep 26	0.30	Sep 12	0.08	Oct 10 2002
MAXIMUM PEAK FLOW			24400	Feb 17	133000	Dec 22 1964
MAXIMUM PEAK STAGE			19.90	Feb 17	34.50	Dec 22 1964
ANNUAL RUNOFF (AC-FT)	560800		484500		466300	
10 PERCENT EXCEEDS	2320		1900		1640	
50 PERCENT EXCEEDS	186		54		82	
90 PERCENT EXCEEDS	1.8		0.60		2.6	

11474500 NORTH FORK EEL RIVER NEAR MINA, CA—Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.—Water years 1966–67, 1973 to October 1976, January 2002 to current year.

WATER TEMPERATURE: Water years 1973–75, January 2002 to current year.

SEDIMENT DATA: Water years 1966–67, 1973 to October 1976.

TURBIDITY: Water year 1967.

PERIOD OF DAILY RECORD.—

WATER TEMPERATURE: October 1972 to August 1975, January 2002 to current year.

SEDIMENT DATA: October 1972 to September 1975.

REVISED RECORDS.—WDR CA-74-P2: 1973.

INSTRUMENTATION.—Temperature recorder since January 2002 provides 15 minute data.

REMARKS.—Record is excellent.

EXTREMES FOR PERIOD OF RECORD.—

WATER TEMPERATURES: Maximum recorded, 31.0°C, July 25, 2004; minimum recorded, 2.0°C, Jan. 31, 2002.

SEDIMENT CONCENTRATIONS: Maximum daily, 5,050 mg/L, Jan. 16, 1974; minimum daily, 1 mg/L, many days 1972–75.

SEDIMENT DISCHARGE: Maximum daily, 426,000 tons, Jan. 16, 1974; minimum daily, 0 tons, many days 1973–75.

EXTREMES FOR CURRENT YEAR.—

WATER TEMPERATURES: Maximum recorded, 31.0°C, July 25; minimum recorded, 4.5°C, Jan. 23.

TEMPERATURE, WATER, DEGREES CELSIUS, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	21.3	17.0	10.8	8.7	9.5	9.0	7.6	6.4	7.2	6.0	8.3	7.6
2	20.5	16.7	10.2	8.8	10.3	9.2	6.4	6.0	7.3	6.6	8.5	6.6
3	20.9	16.5	10.9	9.2	10.3	9.2	6.0	5.2	7.7	6.5	7.8	6.8
4	21.1	17.5	10.2	8.7	9.6	9.0	6.3	5.3	8.2	7.2	8.9	7.0
5	21.1	17.0	11.1	9.6	10.2	9.4	6.0	5.2	7.8	6.8	8.2	7.2
6	20.6	16.5	11.6	10.3	10.9	10.2	6.7	5.8	7.5	7.1	10.0	7.6
7	20.5	16.5	12.6	10.8	10.5	8.9	7.2	6.2	7.2	6.4	10.9	8.1
8	19.9	16.1	12.1	11.3	8.9	7.5	8.0	7.2	6.8	5.5	11.2	8.7
9	19.2	16.0	11.3	10.6	7.5	7.3	7.8	7.2	7.0	5.0	12.2	9.5
10	17.7	13.9	11.2	9.5	8.1	7.1	8.3	7.1	7.1	5.0	12.0	9.7
11	16.8	13.0	11.2	9.7	8.0	7.1	8.3	7.2	7.3	5.2	11.8	9.0
12	17.6	14.1	10.9	9.2	8.8	7.6	8.1	7.2	7.2	5.3	12.0	9.4
13	16.4	12.8	10.7	8.9	10.0	8.8	8.4	7.7	6.5	5.7	12.3	9.9
14	16.0	12.1	10.8	10.2	9.8	8.0	8.8	8.2	8.0	6.3	13.0	10.1
15	15.3	12.2	10.4	9.3	8.1	7.0	8.8	8.3	7.9	7.6	13.3	10.2
16	16.1	12.3	9.9	9.1	7.3	6.7	8.5	7.6	8.8	7.5	13.6	10.4
17	16.0	12.7	10.8	9.8	7.0	6.3	7.8	6.9	9.7	8.8	13.8	10.6
18	16.1	13.1	10.5	9.0	6.8	5.8	9.0	7.7	9.4	8.6	13.8	11.1
19	15.8	13.1	10.5	9.2	7.5	6.3	9.3	8.4	8.6	7.5	13.5	10.7
20	16.9	13.8	10.8	9.3	8.6	7.5	8.5	7.2	8.7	7.7	13.7	10.3
21	16.6	13.6	9.7	8.3	8.5	7.4	7.2	5.8	8.5	7.8	13.9	11.1
22	15.9	13.7	8.3	6.6	7.7	6.8	6.2	5.0	8.8	8.1	14.9	11.8
23	16.5	13.9	6.8	5.4	8.5	7.4	5.9	4.5	9.5	8.2	15.3	12.8
24	15.4	12.5	7.0	5.2	8.8	8.2	7.3	5.9	9.0	8.1	13.7	12.0
25	15.3	12.2	6.5	5.3	8.2	7.2	6.8	5.4	8.3	7.6	12.3	9.2
26	15.4	12.4	7.8	6.5	7.2	5.6	5.8	4.9	7.7	7.2	9.2	8.5
27	15.4	12.5	7.1	5.9	5.6	4.8	7.1	5.8	8.3	7.1	11.5	8.6
28	15.6	12.7	7.8	6.9	5.7	5.2	7.4	6.7	8.3	7.0	12.9	9.7
29	16.0	13.0	8.8	7.8	7.5	5.6	8.3	7.1	8.4	7.8	13.5	10.6
30	13.4	11.2	9.5	8.5	7.8	6.5	8.3	7.3	---	---	12.9	11.5
31	12.0	10.3	---	---	7.8	7.4	7.3	6.2	---	---	12.9	9.8
MONTH	21.3	10.3	12.6	5.2	10.9	4.8	9.3	4.5	9.7	5.0	15.3	6.6

11474500 NORTH FORK EEL RIVER NEAR MINA, CA—Continued

TEMPERATURE, WATER, DEGREES CELSIUS, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	12.6	8.9	19.7	15.5	24.3	19.8	28.0	22.6	29.3	23.2	27.5	21.1
2	13.0	9.1	20.5	15.9	25.2	20.1	27.8	22.3	29.0	23.2	26.1	20.5
3	14.2	10.1	21.2	17.2	25.4	21.0	28.0	22.6	29.0	22.8	25.4	18.6
4	14.8	11.6	20.9	16.9	25.6	20.7	28.6	22.5	28.0	22.2	26.1	18.6
5	13.7	12.2	21.1	17.2	25.5	20.9	29.1	23.1	26.5	22.6	26.6	19.2
6	14.6	11.2	20.2	16.8	24.9	20.8	29.8	24.2	27.3	21.1	26.9	19.4
7	15.4	12.2	18.6	16.6	22.8	20.1	28.7	23.6	28.0	21.8	26.8	19.2
8	16.2	12.8	18.2	14.9	22.3	18.2	28.1	22.6	28.9	22.6	26.5	19.2
9	16.9	13.1	18.6	14.5	23.4	18.8	27.1	22.2	28.8	23.0	26.2	19.3
10	17.5	13.6	18.4	15.3	24.2	19.8	27.2	21.8	29.2	22.6	25.6	18.8
11	17.1	13.9	18.1	15.0	24.0	19.6	27.3	21.3	28.8	23.0	26.2	19.3
12	17.2	14.2	19.7	15.1	24.4	19.4	27.9	22.0	29.4	22.9	26.7	21.2
13	15.7	14.2	20.7	16.2	25.1	20.4	28.0	22.1	29.8	23.0	25.6	19.2
14	14.4	12.8	20.9	16.6	25.4	20.5	27.8	22.0	29.4	22.9	25.1	17.9
15	12.8	11.6	21.2	17.5	25.7	19.9	28.0	21.9	28.8	23.0	25.2	17.8
16	14.3	11.3	21.4	17.7	26.9	20.6	28.1	22.0	28.2	21.6	25.8	19.5
17	14.0	11.2	19.5	17.7	28.1	22.6	28.8	23.0	28.1	21.6	23.8	18.5
18	12.9	10.9	19.2	16.4	28.2	22.8	26.7	23.3	28.6	21.9	23.2	17.4
19	11.5	10.4	20.4	15.7	27.8	22.3	27.9	22.5	29.3	22.7	21.1	17.2
20	11.0	10.1	21.0	17.4	27.3	21.8	28.9	22.7	29.7	23.1	21.7	14.6
21	12.2	9.8	21.6	17.6	27.4	21.9	29.4	22.9	29.4	22.8	22.0	14.4
22	13.4	9.7	21.3	18.0	27.0	21.5	30.1	23.7	27.4	23.4	22.4	14.9
23	14.7	10.5	21.3	17.4	26.7	21.5	30.6	24.2	28.1	22.6	22.6	15.0
24	16.3	11.6	21.6	17.7	27.2	21.7	30.4	24.4	28.7	23.0	23.0	15.8
25	17.7	13.1	22.7	18.2	27.1	21.4	31.0	24.8	26.3	22.0	22.6	15.6
26	18.6	14.6	23.9	19.4	26.8	21.4	30.9	25.0	26.8	20.0	21.7	16.0
27	18.9	14.9	23.7	21.0	27.1	21.2	30.5	24.7	27.5	19.8	22.6	15.6
28	18.7	15.3	21.9	19.1	26.0	21.5	30.1	24.2	27.9	20.2	22.4	15.7
29	18.5	14.5	21.7	17.5	27.8	22.6	30.0	24.1	28.2	20.9	22.4	16.9
30	18.9	14.7	23.0	18.2	28.4	22.2	29.8	24.1	27.7	21.0	22.4	17.0
31	---	---	24.1	19.5	---	---	29.4	23.7	27.3	20.8	---	---
MONTH	18.9	8.9	24.1	14.5	28.4	18.2	31.0	21.3	29.8	19.8	27.5	14.4

CROSS-SECTION ANALYSIS, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Time	Depth at sample location, feet (81903)	Temperature, water, deg C (00010)	Location in X-sect. looking dwnstrm ft from l bank (00009)
MAR 2004				
24...*	1340	1.23	12.7	4.00
24...*	1345	2.12	12.7	14.0
24...*	1350	1.89	12.7	24.0
24...*	1355	2.62	12.8	30.0
24...*	1400	2.66	12.7	34.0
24...*	1405	2.21	12.7	38.0
24...*	1410	.72	12.7	46.0
24...*	1415	1.13	12.7	53.0
24...*	1420	.87	12.7	65.0

* Instantaneous discharge at time of the cross-sectional measurement: Mar. 24, 198 ft³/s.

11475000 EEL RIVER AT FORT SEWARD, CA

LOCATION.—Lat 40°13'05", long 123°37'54", in SE 1/4 NE 1/4 sec.8, T.3 S., R.5 E., Humboldt County, Hydrologic Unit 18010105, on right bank, at downstream side of bridge, 1.0 mi southeast of Fort Seward, 1.9 mi upstream from Dobbyn Creek, and 11.8 mi northeast of Garberville.

DRAINAGE AREA.—2,107 mi².

PERIOD OF RECORD.—September 1955 to current year. Prior to October 1965, published as "at Alderpoint."

CHEMICAL ANALYSES: Water years 1972–75, 1977.

WATER TEMPERATURE: Water years 1961–79.

TURBIDITY: Water years 1966–68, 1971–73.

SEDIMENT DATA: Water years 1966–79.

GAGE.—Water-stage recorder and crest-stage gage. Datum of gage is 217.26 ft above NGVD of 1929. Prior to Dec. 22, 1964, at site 7.5 mi upstream at datum 46.55 ft higher. Feb. 2, to Sept. 30, 1965, at site 7.7 mi upstream at datum 49.42 ft higher.

REMARKS.—Records good. Flow slightly regulated by Lake Pillsbury (station 11470000) 99 mi upstream and by diversion through Potter Valley Powerhouse Intake (station 11471000). See schematic diagram of [Eel River Basin](#).

EXTREMES FOR PERIOD OF RECORD.—Maximum discharge, 561,000 ft³/s, Dec. 22, 1964, gage height, 82.6 ft, from floodmarks, present site and datum, 87.2 ft, from floodmarks, site and datum then in use, from rating curve extended above 110,000 ft³/s, on basis of slope-area measurement at gage height 72.5 ft; minimum daily, 1.2 ft³/s, Sept. 13, 1977.

EXTREMES FOR CURRENT YEAR.—Peak discharges greater than base discharge of 41,000 ft³/s, or maximum:

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Dec. 14	1000	52,900	26.43	Feb. 17	2015	156,000	42.37
Dec. 29	1815	52,400	26.34	Feb. 26	1915	50,300	25.95

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	29	59	2970	32600	4940	13900	2870	1600	579	141	35	24
2	30	61	3920	29700	8620	13000	2630	1530	550	138	35	24
3	29	67	2160	19600	18500	10700	2460	1510	530	137	34	23
4	29	71	1330	13600	14000	8890	2350	1510	513	134	33	22
5	28	75	2030	9910	10300	7600	2330	1460	482	131	31	21
6	28	82	13700	7900	8270	6720	2330	1360	452	119	32	20
7	29	91	19700	8310	8080	6130	2280	1270	420	109	32	19
8	34	124	8090	9600	6750	6140	2200	1240	393	98	33	21
9	37	196	4290	15400	5740	6480	2150	1300	374	92	33	23
10	37	670	8950	18300	4990	6760	2100	1140	428	88	32	23
11	34	672	11100	13800	4430	6370	2040	1080	403	85	31	22
12	33	422	8020	10700	4040	5840	1990	1020	362	84	30	22
13	34	295	28100	9190	3730	5530	1930	960	343	83	30	22
14	41	272	42100	8440	3530	5260	1900	909	327	81	29	22
15	47	479	18600	10200	4020	5120	1930	869	306	77	27	22
16	53	1210	11100	8540	21200	5040	1950	838	293	73	25	22
17	58	881	7040	7140	107000	4830	1850	830	282	69	23	22
18	63	896	4850	6110	107000	4590	1780	823	264	67	23	22
19	64	685	3980	5370	43500	4360	1780	803	251	65	24	23
20	66	510	9270	4830	26500	3720	2460	780	236	63	25	24
21	64	425	7480	4330	19200	3350	3280	799	226	61	25	25
22	62	387	5570	3860	15200	3210	3660	782	213	58	25	27
23	62	358	4700	3540	12400	3190	2800	740	205	57	25	29
24	60	322	19200	4040	11400	3050	2390	690	197	60	24	29
25	59	295	23600	4140	21500	3040	2210	655	190	58	25	27
26	58	281	14500	3580	45200	4570	2090	627	179	55	25	23
27	58	274	9360	5080	35500	4450	2040	659	168	51	25	22
28	58	260	6610	9230	22400	4350	1970	651	160	47	25	23
29	64	342	31900	6510	16800	3630	1900	668	154	42	25	23
30	61	2010	32200	5870	---	3420	1720	657	149	40	24	21
31	61	---	18400	5690	---	3190	---	604	---	37	25	---
TOTAL	1470	12772	384820	305110	614740	176430	67370	30364	9629	2500	870	692
MEAN	47.4	426	12410	9842	21200	5691	2246	979	321	80.6	28.1	23.1
MAX	66	2010	42100	32600	107000	13900	3660	1600	579	141	35	29
MIN	28	59	1330	3540	3530	3040	1720	604	149	37	23	19
AC-FT	2920	25330	763300	605200	1219000	349900	133600	60230	19100	4960	1730	1370

EEL RIVER BASIN

11475000 EEL RIVER AT FORT SEWARD, CA—Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1955 - 2004, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	343	2773	9086	13130	12720	9542	5224	2340	697	145	52.3	51.6
MAX	4938	18740	56050	43180	47700	30660	23040	7963	4194	510	199	359
(WY)	1963	1974	1965	1995	1986	1995	1982	2003	1993	1998	1983	1986
MIN	20.5	49.4	45.5	222	434	1071	476	356	131	18.4	3.27	7.53
(WY)	1965	1960	1977	1991	1977	1988	1977	1977	1977	1977	1977	2002

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR	FOR 2004 WATER YEAR	WATER YEARS 1955 - 2004
ANNUAL TOTAL	2006915	1606767	
ANNUAL MEAN	5498	4390	4643
HIGHEST ANNUAL MEAN			10350
LOWEST ANNUAL MEAN			260
HIGHEST DAILY MEAN	58100	Apr 29	107000
LOWEST DAILY MEAN	28	Oct 5	19
ANNUAL SEVEN-DAY MINIMUM	29	Sep 30	21
MAXIMUM PEAK FLOW			156000
MAXIMUM PEAK STAGE			42.37
ANNUAL RUNOFF (AC-FT)	3981000	3187000	3363000
10 PERCENT EXCEEDS	15700	11200	11900
50 PERCENT EXCEEDS	1750	669	725
90 PERCENT EXCEEDS	40	25	34

11475560 ELDER CREEK NEAR BRANSCOMB, CA
(Hydrologic Benchmark Station)

LOCATION.—Lat 39°43'47", long 123°38'34", in NW 1/4 NE 1/4 sec.29, T.22 N., R.16 W., [Mendocino County](#), Hydrologic Unit 18010106, on right bank, 0.2 mi upstream from mouth, and 5.3 mi north of Branscomb.

DRAINAGE AREA.—6.50 mi².

PERIOD OF RECORD.—October 1967 to current year.

PRECIPITATION DATA: Water years 1989–96.

CHEMICAL DATA: Water year 1968 to March 1996.

SEDIMENT DATA: Water year 1969 to March 1996.

WATER TEMPERATURE: Water years 1968–79.

GAGE.—Water-stage recorder and crest-stage gage. Datum of gage is 1,391.08 ft above NGVD of 1929.

REMARKS.—Records good. No regulation; small diversion upstream from station for domestic use. See schematic diagram of [Eel River Basin](#).

EXTREMES FOR PERIOD OF RECORD.—Maximum discharge, 2,480 ft³/s, Dec. 30, 1996, gage height, 9.88 ft, from rating curve extended above 700 ft³/s, on basis of slope-area measurements at gage heights 9.40 and 11.41 ft; minimum daily, 0.27 ft³/s, Sept. 10–15, 1981.

EXTREMES OUTSIDE PERIOD OF RECORD.—Flood of Dec. 22, 1964, reached a stage of 11.41 ft, from floodmarks, discharge, 3,660 ft³/s, by slope-area measurement of peak flow.

EXTREMES FOR CURRENT YEAR.—Peak discharges greater than base discharge of 400 ft³/s, or maximum:

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Dec. 14	0100	672	6.68	Jan. 1	0815	469	6.16
Dec. 29	0700	448	6.10	Feb. 17	1545	770	6.90

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.0	1.1	10	312	32	75	12	11	4.9	2.7	1.2	0.67
2	1.0	1.3	10	233	49	65	11	11	4.8	2.6	1.2	0.68
3	1.0	1.6	7.5	137	83	56	11	10	4.7	2.6	1.3	0.70
4	1.0	1.3	6.8	91	87	49	11	10	4.6	2.5	1.2	0.69
5	0.98	1.3	19	71	71	43	10	9.6	4.5	2.4	1.2	0.67
6	0.96	1.5	104	57	59	38	10	9.3	4.5	2.3	1.2	0.66
7	0.95	2.0	61	52	49	34	9.7	9.3	4.4	2.2	1.2	0.63
8	0.94	3.1	36	60	42	30	9.4	8.8	4.4	2.2	1.1	0.59
9	0.96	7.1	28	79	37	27	9.1	8.6	4.3	2.2	1.1	0.60
10	0.96	4.7	65	85	33	24	8.8	8.3	4.2	2.2	1.0	0.59
11	0.98	2.8	66	75	30	22	8.7	8.1	4.1	2.2	0.99	0.62
12	0.98	2.1	82	64	27	21	8.5	7.7	4.0	2.1	0.93	0.64
13	0.97	1.9	311	53	24	19	8.5	7.4	3.9	2.0	0.91	0.65
14	0.95	4.7	374	51	23	18	9.4	7.2	3.8	1.9	0.90	0.66
15	0.95	16	129	47	28	17	9.9	7.0	3.6	1.9	0.93	0.65
16	0.94	6.9	74	43	99	16	8.8	6.9	3.6	1.9	0.93	0.66
17	0.97	6.2	51	39	460	15	8.5	6.9	3.5	1.8	0.91	0.67
18	0.99	4.9	40	36	395	14	8.6	6.8	3.4	1.8	0.88	0.66
19	1.0	4.1	37	32	198	13	11	6.6	3.4	1.8	0.85	0.87
20	1.0	3.7	35	29	114	13	17	6.4	3.3	1.8	0.82	0.85
21	0.97	3.2	30	26	82	12	30	6.3	3.2	1.8	0.79	0.82
22	0.96	2.9	27	24	65	12	27	6.1	3.1	1.7	0.84	0.78
23	1.0	2.7	26	23	53	11	23	6.0	3.1	1.6	0.89	0.74
24	0.98	2.6	74	22	52	11	20	5.8	3.0	1.5	0.85	0.71
25	0.96	2.5	78	20	77	16	18	5.6	3.0	1.5	0.86	0.68
26	0.94	2.5	68	19	193	15	16	5.4	3.0	1.4	0.88	0.63
27	0.94	2.4	54	37	186	18	15	5.3	2.9	1.4	0.84	0.63
28	0.92	2.3	47	42	115	15	13	5.4	2.8	1.3	0.77	0.63
29	0.93	4.6	281	37	84	14	13	5.2	2.8	1.4	0.71	0.65
30	0.96	5.8	192	37	---	13	12	5.1	2.8	1.3	0.69	0.66
31	1.0	---	112	33	---	13	---	5.0	---	1.3	0.65	---
TOTAL	30.04	109.8	2535.3	1966	2847	759	387.9	228.1	111.6	59.3	29.52	20.34
MEAN	0.97	3.66	81.8	63.4	98.2	24.5	12.9	7.36	3.72	1.91	0.95	0.68
MAX	1.0	16	374	312	460	75	30	11	4.9	2.7	1.3	0.87
MIN	0.92	1.1	6.8	19	23	11	8.5	5.0	2.8	1.3	0.65	0.59
AC-FT	60	218	5030	3900	5650	1510	769	452	221	118	59	40

11475560 ELDER CREEK NEAR BRANSCOMB, CA—Continued
(Hydrologic Benchmark Station)

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1968 - 2004, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	2.04	18.2	53.5	72.1	62.6	52.6	26.1	11.9	5.65	2.34	1.30	1.05
MAX	8.72	132	192	210	173	147	91.9	40.8	31.6	5.84	2.49	2.36
(WY)	1980	1974	1997	1970	1986	1983	1982	2003	1993	1993	1990	1986
MIN	0.57	0.99	1.04	2.32	3.40	5.45	3.01	2.13	1.35	0.67	0.48	0.51
(WY)	2003	1996	1977	1977	1977	1988	1977	1977	1977	1977	1977	1988

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1968 - 2004	
ANNUAL TOTAL	11759.86		9083.90			
ANNUAL MEAN	32.2		24.8		25.7	
HIGHEST ANNUAL MEAN					54.4 1974	
LOWEST ANNUAL MEAN					2.12 1977	
HIGHEST DAILY MEAN	384	Apr 29	460	Feb 17	1620	Jan 1 1997
LOWEST DAILY MEAN	0.65	Sep 27	0.59	Sep 8	0.27	Sep 10 1981
ANNUAL SEVEN-DAY MINIMUM	0.68	Sep 22	0.62	Sep 7	0.27	Sep 9 1981
MAXIMUM PEAK FLOW			770 Feb 17		2480 Dec 30 1996	
MAXIMUM PEAK STAGE			6.90 Feb 17		9.88 Dec 30 1996	
ANNUAL RUNOFF (AC-FT)	23330		18020		18580	
10 PERCENT EXCEEDS	78		65		67	
50 PERCENT EXCEEDS	10		5.4		5.3	
90 PERCENT EXCEEDS	0.97		0.85		0.91	

11475800 SOUTH FORK EEL RIVER AT LEGGETT, CA

LOCATION.—Lat 39°52'29", long 123°43'10", in NE 1/4 SE 1/4 sec.3, T.23 N., R.17 W., Mendocino County, Hydrologic Unit 18010106, on right bank, near Standish Hickey State Park, 0.2 mi upstream from Rock Creek, and 0.7 mi northwest of Leggett.

DRAINAGE AREA.—248 mi².

PERIOD OF RECORD.—October 1965 to June 1995, October 1997 to April 1999 (seasonal), October 1999 to current year. Stage only July 1995 to September 1997.

CHEMICAL ANALYSES: Water year 1977.

WATER TEMPERATURE: Water year 1966 to June 1979.

GAGE.—Water-stage recorder and crest-stage gage. Datum of gage is 684.72 ft above NGVD of 1929. Prior to July 29, 1988, at datum 8.60 ft higher. July 30, 1988, to July 28, 2003, at datum 6.60 ft higher. Datum lowered July 28, 2003 due to channel scour.

REMARKS.—Records poor. No regulation or diversion upstream from station. See schematic diagram of [Eel River Basin](#).

EXTREMES FOR PERIOD OF RECORD.—Maximum discharge, 72,700 ft³/s, Jan. 4, 1966, gage height, 27.4 ft, from floodmarks, present datum, from rating curve extended above 21,000 ft³/s, on basis of slope-area measurement at gage height 28.13 ft; minimum daily, 7.3 ft³/s, Aug. 4–6, 12, 1977.

EXTREMES OUTSIDE PERIOD OF RECORD.—Flood of Dec. 22, 1964, reached a stage of 28.13 ft, from floodmarks, present datum, discharge, 78,700 ft³/s, by slope-area measurement of peak flow.

EXTREMES FOR CURRENT YEAR.—Peak discharges greater than base discharge of 8,500 ft³/s, or maximum:

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Dec. 14	0345	15,500	18.59	Jan. 1	unknown	16,500	19.00
Dec. 29	0845	15,000	18.38	Feb. 17	1745	17,900	19.58

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	18	18	599	e11000	1050	2290	412	326	136	69	30	19
2	18	19	604	e6580	2300	1950	380	305	132	67	30	19
3	19	23	285	e4370	3930	1610	361	291	128	65	29	19
4	18	21	193	e3110	3130	1400	340	277	125	63	29	18
5	18	23	1080	e2400	2380	1210	324	268	122	59	29	17
6	18	27	3910	e1910	1880	1100	312	260	120	56	30	17
7	18	33	2510	e1560	1620	999	299	259	118	53	30	16
8	18	52	1330	1700	1290	926	288	258	116	52	29	15
9	18	149	824	2480	1090	852	278	246	115	51	28	15
10	17	160	2150	2520	932	775	267	235	114	51	26	15
11	17	86	2460	2010	808	714	254	229	111	51	25	15
12	18	57	2950	1660	712	665	249	221	107	49	24	16
13	17	44	9820	1390	638	615	250	212	104	47	24	16
14	17	48	10200	1430	586	570	278	205	100	46	24	15
15	17	608	3870	1490	1030	531	360	198	97	45	24	15
16	17	306	2340	1230	4360	502	314	192	94	44	23	15
17	17	214	1670	1070	12600	478	279	187	91	42	22	15
18	17	159	1300	940	9860	451	266	193	89	42	21	16
19	18	115	1180	828	4560	420	294	186	89	41	21	20
20	18	93	1780	736	3010	388	610	180	88	41	21	19
21	18	77	1230	649	2280	375	1330	176	85	40	21	19
22	18	65	1030	575	1850	360	1170	173	82	39	22	18
23	18	58	1010	538	1500	341	846	170	80	37	23	18
24	18	53	3810	683	1640	321	685	162	79	36	22	17
25	17	50	3020	570	3150	458	581	157	78	35	23	18
26	17	50	2220	501	7070	750	509	152	76	34	24	18
27	17	48	1710	1660	5000	989	457	148	74	32	23	18
28	17	46	1420	1860	3190	721	418	151	71	31	22	18
29	17	135	9430	1350	2410	577	384	154	69	31	21	18
30	17	345	5710	1300	---	528	354	148	69	30	20	19
31	18	---	3830	1120	---	467	---	141	---	30	19	---
TOTAL	545	3182	85475	61220	85856	24333	13149	6460	2959	1409	759	513
MEAN	17.6	106	2757	1975	2961	785	438	208	98.6	45.5	24.5	17.1
MAX	19	608	10200	11000	12600	2290	1330	326	136	69	30	20
MIN	17	18	193	501	586	321	249	141	69	30	19	15
AC-FT	1080	6310	169500	121400	170300	48260	26080	12810	5870	2790	1510	1020

e Estimated.

EEL RIVER BASIN

11475800 SOUTH FORK EEL RIVER AT LEGGETT, CA—Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1966 - 2004, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	64.4	691	1651	2317	2167	1742	821	304	125	48.9	28.6	28.2
MAX	272	4050	6072	7278	7294	5515	3528	1140	630	129	65.4	87.8
(WY)	1980	1974	1984	1970	1986	1983	1982	2003	1993	1993	1993	1986
MIN	12.3	40.2	32.9	98.1	137	147	78.4	59.5	26.7	9.96	9.67	10.7
(WY)	2002	1994	1977	1977	1977	1988	1977	1977	1977	1977	1977	1992

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1966 - 2004	
ANNUAL TOTAL	361162		285860			
ANNUAL MEAN	989		781		795	
HIGHEST ANNUAL MEAN					1778	
LOWEST ANNUAL MEAN					69.5	
HIGHEST DAILY MEAN	10200	Dec 14	12600	Feb 17	49800	Jan 4 1966
LOWEST DAILY MEAN	17	Oct 10	15	Sep 8	7.3	Aug 4 1977
ANNUAL SEVEN-DAY MINIMUM	17	Oct 10	15	Sep 8	7.5	Jul 31 1977
MAXIMUM PEAK FLOW			17900	Feb 17	72700	Jan 4 1966
MAXIMUM PEAK STAGE			19.58	Feb 17	27.40	Jan 4 1966
ANNUAL RUNOFF (AC-FT)	716400		567000		575800	
10 PERCENT EXCEEDS	2770		2240		2050	
50 PERCENT EXCEEDS	285		156		139	
90 PERCENT EXCEEDS	18		18		21	

11476500 SOUTH FORK EEL RIVER NEAR MIRANDA, CA

LOCATION.—Lat 40°10'55", long 123°46'30", in NW 1/4 sec.30, T.3 S., R.4 E., Humboldt County, Hydrologic Unit 18010106, on right bank, 0.5 mi upstream from Rocky Glen Creek, 20 mi upstream from mouth, and 4.3 mi southeast of Miranda.

DRAINAGE AREA.—537 mi².

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

TEMPERATURE DATA: Water years 1960–83.

SEDIMENT DATA: Water year 1981.

REVISED RECORDS.—WSP 1395: Drainage area. WSP 2129: 1955.

GAGE.—Water-stage recorder and crest-stage gage. Datum of gage is 217.57 ft above NGVD of 1929. Prior to Nov. 2, 1940, nonrecording gage at site 200 ft upstream at datum 0.8 ft higher. Nov. 2, 1940, to Oct. 31, 1944, nonrecording gage at present site and datum.

REMARKS.—Records fair. Occasional storage and release for recreational use during summer months at Benbow Reservoir, capacity, 1,060 acre-ft, 16 mi upstream. No diversion upstream from station. See schematic diagram of Eel River Basin.

EXTREMES FOR PERIOD OF RECORD.—Maximum discharge, 199,000 ft³/s, Dec. 22, 1964, gage height, 46.0 ft, from floodmarks, from rating curve extended above 53,000 ft³/s, on basis of slope-area measurement at gage height 42.7 ft; minimum daily, 10 ft³/s, Aug. 30, 1964.

EXTREMES FOR CURRENT YEAR.—Peak discharges greater than base discharge of 15,000 ft³/s, or maximum:

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Dec. 14	0845	29,000	19.83	Feb. 17	2030	46,600	24.33
Jan. 1	1800	32,500	20.78	Feb. 26	1645	18,800	16.62

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	32	32	701	22300	2050	5050	832	559	200	91	33	27
2	31	32	1150	15900	4310	4300	787	521	192	87	33	26
3	31	35	757	9670	8700	3440	740	489	188	84	33	25
4	31	44	545	6510	7310	2940	700	462	183	82	32	24
5	31	44	1180	4690	5250	2510	661	443	175	80	32	24
6	31	43	5580	3610	4180	2160	630	424	171	77	32	24
7	32	52	5640	3260	3790	1890	602	415	165	74	32	24
8	31	93	2570	3510	3110	1680	572	412	162	72	33	23
9	31	169	1590	5380	2660	1520	544	392	159	70	34	23
10	31	291	3720	5830	2310	1380	515	371	154	68	33	23
11	30	186	4250	4280	2030	1270	485	357	150	66	32	23
12	31	118	3490	3700	1840	1170	465	343	144	65	31	23
13	31	87	16400	3250	1680	1100	454	328	140	63	30	22
14	30	80	22300	2930	1580	1030	479	314	134	53	30	22
15	30	265	8410	3090	1750	966	579	301	127	50	29	21
16	30	692	4850	2560	8380	920	565	291	123	51	29	21
17	31	359	3370	2290	34900	885	507	289	104	50	29	21
18	31	259	2530	2000	28700	844	471	300	55	50	29	22
19	31	186	2330	1790	13100	803	497	290	77	50	28	23
20	32	147	3170	1580	7920	762	749	277	81	49	28	21
21	32	124	2470	1410	5600	733	1450	266	83	33	28	21
22	32	105	1970	1300	4330	710	1800	257	89	28	28	21
23	32	91	1850	1180	3520	680	1260	250	92	28	28	59
24	31	83	5700	1440	3490	666	1020	246	93	28	26	113
25	31	79	5710	1320	7780	838	904	236	91	29	27	65
26	31	77	4210	1190	16600	1270	827	227	90	31	27	34
27	31	74	3280	2450	13200	1440	767	222	90	32	26	23
28	31	72	2800	3880	8420	1330	707	222	89	32	26	22
29	30	103	19500	2660	6080	1040	651	224	88	32	26	21
30	30	369	12900	2510	---	987	603	216	89	33	26	22
31	31	---	7210	2290	---	904	---	206	---	32	27	---
TOTAL	961	4391	162133	129760	214570	47218	21823	10150	3778	1670	917	863
MEAN	31.0	146	5230	4186	7399	1523	727	327	126	53.9	29.6	28.8
MAX	32	692	22300	22300	34900	5050	1800	559	200	91	34	113
MIN	30	32	545	1180	1580	666	454	206	55	28	26	21
AC-FT	1910	8710	321600	257400	425600	93660	43290	20130	7490	3310	1820	1710

11476500 SOUTH FORK EEL RIVER NEAR MIRANDA, CA—Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1940 - 2004, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	246	1407	4123	5375	4816	3516	1830	699	297	110	59.1	58.2
MAX	3332	10130	17260	17530	16640	13000	8425	2370	1754	276	131	221
(WY)	1963	1974	1965	1970	1986	1983	1982	1990	1993	1993	1983	1986
MIN	17.3	25.0	74.6	207	284	304	176	122	52.7	20.4	18.0	19.9
(WY)	2003	1940	1977	1977	1977	1988	1977	1977	1977	1977	1977	2002

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1940 - 2004	
ANNUAL TOTAL	712266		598234			
ANNUAL MEAN	1951		1635		1867	
HIGHEST ANNUAL MEAN					4393	
LOWEST ANNUAL MEAN					156	
HIGHEST DAILY MEAN	22300	Dec 14	34900	Feb 17	161000	Dec 22 1964
LOWEST DAILY MEAN	30	Oct 11	21	Sep 15	10	Aug 30 1964
ANNUAL SEVEN-DAY MINIMUM	30	Oct 10	21	Sep 15	14	Jul 30 1977
MAXIMUM PEAK FLOW			46600	Feb 17	199000	Dec 22 1964
MAXIMUM PEAK STAGE			24.33	Feb 17	46.00	Dec 22 1964
ANNUAL RUNOFF (AC-FT)	1413000		1187000		1352000	
10 PERCENT EXCEEDS	5340		4290		4860	
50 PERCENT EXCEEDS	545		232		340	
90 PERCENT EXCEEDS	32		28		43	

11476600 BULL CREEK NEAR WEOTT, CA

LOCATION.—Lat 40°21'05", long 124°00'10", in SW 1/4 NW 1/4 sec.30, T.1 S., R.2 E., [Humboldt County](#), Hydrologic Unit 18010106, on left bank, 0.2 mi downstream from Albee Creek, 4.5 mi northwest of Weott, and 4.6 mi upstream from mouth.

DRAINAGE AREA.—28.1 mi².

PERIOD OF RECORD.—October 1960 to current year.

CHEMICAL ANALYSES: Water year 1977.

WATER TEMPERATURE: Water years 1976–79.

SEDIMENT DATA: Water years 1960–80.

GAGE.—Water-stage recorder and crest-stage gage. Datum of gage is 269.36 ft above NGVD of 1929. Prior to Dec. 22, 1964, water-stage recorder, and Jan. 14 to Aug. 10, 1965, nonrecording gage at site 150 ft downstream at datum 8.90 ft lower.

REMARKS.—Records poor. Minor diversions upstream from station for domestic and recreational use. See schematic diagram of [Eel River Basin](#).

EXTREMES FOR PERIOD OF RECORD.—Maximum discharge, 7,830 ft³/s, Dec. 31, 1996, gage height, 12.84 ft, maximum gage height, 20.6 ft³/s, Dec. 22, 1964, site and datum then in use; minimum daily, 0.20 ft³/s, Oct. 8, 9, 2002.

EXTREMES FOR CURRENT YEAR.—Peak discharges greater than base discharge of 1,700 ft³/s, or maximum:

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Dec. 13	2345	1,720	6.18	Feb. 17	1330	3,950	8.44

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.1	1.6	71	1060	125	365	48	44	15	6.8	2.4	0.78
2	1.1	1.7	64	821	259	288	46	42	14	6.7	2.4	0.77
3	1.2	1.9	41	645	349	244	44	41	14	6.4	2.3	0.79
4	1.2	1.9	40	448	318	210	42	40	13	6.2	2.1	0.76
5	1.2	1.9	114	327	274	179	41	38	13	6.0	2.2	0.73
6	1.2	2.2	418	262	249	155	40	37	13	5.5	2.2	0.71
7	1.2	7.5	236	239	229	134	39	38	13	5.2	2.1	0.68
8	1.2	36	163	316	201	119	38	34	12	5.2	2.0	0.65
9	1.2	52	153	407	178	107	37	33	13	5.0	1.7	0.64
10	1.3	25	295	415	161	98	36	32	12	4.9	1.6	0.63
11	1.3	12	284	355	145	90	35	31	12	4.9	1.5	0.58
12	1.3	8.4	331	325	129	82	34	29	11	4.7	1.5	0.57
13	1.3	6.6	776	294	124	75	34	27	11	4.6	1.5	0.57
14	1.3	15	978	261	122	69	40	26	10	4.6	1.4	0.55
15	1.3	47	502	235	129	65	44	25	10	4.5	1.4	0.54
16	1.3	32	352	208	335	61	40	24	9.7	4.2	1.3	0.51
17	1.3	26	267	186	e2660	57	40	25	9.3	4.0	1.2	0.52
18	1.4	18	220	165	e2010	54	40	27	9.1	3.9	1.2	0.63
19	1.4	14	226	149	e1160	51	48	23	9.0	3.8	1.1	0.67
20	1.5	14	212	134	753	48	65	22	8.7	3.7	1.1	0.70
21	1.5	11	171	122	504	46	99	21	8.7	3.6	0.99	0.72
22	1.5	9.8	146	112	345	44	86	20	8.7	3.4	0.99	0.68
23	1.5	8.6	166	110	260	42	77	19	8.6	3.1	1.3	0.62
24	1.5	7.9	408	109	250	43	71	19	8.3	2.9	1.4	0.61
25	1.5	7.7	354	98	738	73	65	18	8.0	2.8	1.4	0.58
26	1.5	8.3	313	94	1410	69	60	17	7.7	2.7	1.4	0.58
27	1.5	7.1	275	127	949	69	56	17	7.5	2.6	1.4	0.57
28	1.5	6.8	279	127	650	58	53	18	7.4	2.4	1.1	0.58
29	1.5	12	760	119	472	53	49	16	7.0	2.3	0.98	0.58
30	1.6	18	568	133	---	58	46	16	6.9	2.3	0.88	0.60
31	1.6	---	515	126	---	51	---	15	---	2.3	0.82	---
TOTAL	42.0	421.9	9698	8529	15488	3157	1493	834	310.6	131.2	46.86	19.10
MEAN	1.35	14.1	313	275	534	102	49.8	26.9	10.4	4.23	1.51	0.64
MAX	1.6	52	978	1060	2660	365	99	44	15	6.8	2.4	0.79
MIN	1.1	1.6	40	94	122	42	34	15	6.9	2.3	0.82	0.51
AC-FT	83	837	19240	16920	30720	6260	2960	1650	616	260	93	38

e Estimated.

EEL RIVER BASIN

11476600 BULL CREEK NEAR WEOTT, CA—Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1961 - 2004, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	11.7	102	267	327	305	230	119	41.2	16.6	6.39	3.26	2.67
MAX	160	683	780	901	1056	717	526	137	88.0	14.5	10.0	12.8
(WY)	1963	1974	1997	1978	1986	1983	1963	1963	1993	1993	1983	1986
MIN	0.29	3.61	3.67	10.5	13.8	16.0	11.2	10.3	4.84	1.81	0.70	0.31
(WY)	2003	1994	1977	1977	1977	1988	1988	1988	1977	1977	1992	2002

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1961 - 2004	
ANNUAL TOTAL	44967.18		40170.66			
ANNUAL MEAN	123		110		119	
HIGHEST ANNUAL MEAN					287	
LOWEST ANNUAL MEAN					9.72	
HIGHEST DAILY MEAN	1000	Apr 29	2660	Feb 17	4900	Jan 16 1974
LOWEST DAILY MEAN	0.74	Sep 25	0.51	Sep 16	0.20	Oct 8 2002
ANNUAL SEVEN-DAY MINIMUM	0.77	Sep 20	0.55	Sep 11	0.21	Oct 5 2002
MAXIMUM PEAK FLOW			3950		7830	
MAXIMUM PEAK STAGE			8.44		20.60	
ANNUAL RUNOFF (AC-FT)	89190		79680		85860	
10 PERCENT EXCEEDS	336		314		318	
50 PERCENT EXCEEDS	38		18		22	
90 PERCENT EXCEEDS	1.3		1.1		1.8	

11477000 EEL RIVER AT SCOTIA, CA

LOCATION.—Lat 40°29'30", long 124°05'55", in SW 1/4 sec.5, T.1 N., R.1 E., Humboldt County, Hydrologic Unit 18010105, near center of span in left pier of A.S. Murphy Memorial Bridge on State Highway 283, 0.5 mi north of Scotia, and 6 mi upstream from Van Duzen River.

DRAINAGE AREA.—3,113 mi².

PERIOD OF RECORD.—October 1910 to current year. Monthly discharge only for some periods and yearly estimates for 1915–16, published in WSP 1315-B.

CHEMICAL DATA: Water years 1952–75, 1977, 1979–95.

BIOLOGICAL DATA: Water years 1979–81.

SEDIMENT DATA: Water years 1955–95, 1998.

SPECIFIC CONDUCTANCE: Water years 1979–81.

WATER TEMPERATURE: Water years 1958–82.

REVISED RECORDS.—WSP 931: 1938. WSP 1315-B: 1914–15(M), 1917(M), 1927–28(M), 1936(M), 1939(M). WSP 1345: Drainage area. WSP 1715: 1959.

GAGE.—Water-stage recorder and crest-stage gage. Datum of gage is 35.50 ft above NGVD of 1929. Prior to Dec. 12, 1940, nonrecording gage at same site and datum.

REMARKS.—Records good. Low flow slightly regulated by Lake Pillsbury (station 11470000) 138 mi upstream since December 1921 and by diversion through Potter Valley Powerhouse Intake (station 11471000). See schematic diagram of [Eel River Basin](#).

EXTREMES FOR PERIOD OF RECORD.—Maximum discharge, 752,000 ft³/s, Dec. 23, 1964, gage height, 72.0 ft, from floodmarks, from rating curve extended above 220,000 ft³/s, on basis of maximum flow at upstream stations; minimum observed, 12 ft³/s, Aug. 12–14, 1924.

EXTREMES FOR CURRENT YEAR.—Peak discharges greater than base discharge of 72,000 ft³/s, or maximum:

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Dec. 14	1500	100,000	30.76	Feb. 18	0215	217,000	45.26
Jan. 2	0145	100,000	30.80	Feb. 27	0100	92,800	29.82

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	97	128	4400	59300	10100	22300	4960	2620	991	317	102	64
2	92	135	6820	73600	13700	21000	4500	2580	950	309	108	57
3	92	151	5200	40900	33500	17500	4160	2470	920	301	108	56
4	93	155	3110	26300	29800	15000	3910	2410	889	299	111	57
5	94	156	3540	19300	21100	13200	3760	2370	853	288	116	60
6	92	167	15200	15300	16400	11900	3700	2250	811	280	121	62
7	93	195	39000	14100	15700	10700	3630	2140	769	266	128	62
8	92	353	17100	16000	13500	10100	3490	2070	731	251	138	62
9	91	729	9240	24600	11600	10200	3360	2050	705	236	147	58
10	91	849	12600	32700	10100	10200	3250	1980	679	224	154	56
11	96	1430	22500	24800	8860	10000	3130	1830	726	212	160	58
12	97	1220	16400	19400	7940	9100	3030	1740	692	202	164	57
13	96	855	48000	16900	7250	8540	2920	1650	641	191	169	57
14	95	656	86300	14700	6830	8050	2920	1570	605	189	170	55
15	95	756	43100	16400	6630	7680	3010	1490	581	187	171	53
16	97	1650	21100	15200	22200	7440	3170	1440	547	170	177	53
17	104	2320	14400	13000	136000	7180	3010	1430	528	161	182	54
18	111	1740	10700	11300	173000	6820	2870	1520	500	154	179	57
19	115	1650	8670	9890	79000	6530	2780	1430	438	150	181	60
20	124	1310	13200	8840	43600	6000	3550	1370	414	141	173	62
21	129	1070	14500	7970	29500	5300	5830	1330	401	136	170	64
22	130	910	11100	7090	23000	4990	7280	1330	393	135	166	64
23	126	812	9320	6470	19100	4840	5950	1280	394	121	156	64
24	129	729	21500	7270	17300	4820	4740	1230	385	109	148	65
25	128	656	42700	7680	27800	4870	4150	1170	379	e100	130	94
26	125	624	26500	6720	79300	7070	3780	1110	368	e100	114	147
27	122	586	17600	8110	73000	7780	3540	1090	356	99	102	116
28	119	553	13200	16300	41200	7870	3340	1110	344	97	93	96
29	117	570	50500	13400	27800	6560	3210	1100	333	98	88	80
30	121	1260	71500	11700	---	5980	3010	1090	329	99	77	73
31	128	---	34900	11600	---	5600	---	1050	---	100	69	---
TOTAL	3331	24375	713900	576840	1004810	285120	113940	51300	17652	5722	4272	2023
MEAN	107	812	23030	18610	34650	9197	3798	1655	588	185	138	67.4
MAX	130	2320	86300	73600	173000	22300	7280	2620	991	317	182	147
MIN	91	128	3110	6470	6630	4820	2780	1050	329	97	69	53
AC-FT	6610	48350	1416000	1144000	1993000	565500	226000	101800	35010	11350	8470	4010

e Estimated.

EEL RIVER BASIN

11477000 EEL RIVER AT SCOTIA, CA—Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1911 - 2004, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	642	4983	14280	20110	20040	14240	8843	3692	1264	338	149	140
MAX	10910	38690	84420	69950	77680	51150	39190	12130	7511	920	422	735
(WY)	1963	1974	1965	1970	1958	1983	1982	2003	1993	1993	1983	1986
MIN	50.5	59.3	168	659	389	946	703	278	75.7	25.1	22.1	19.4
(WY)	1930	1930	1977	1977	1920	1924	1924	1924	1924	1924	1924	1924

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1911 - 2004	
ANNUAL TOTAL	3394337		2803285			
ANNUAL MEAN	9300		7659		7337	
HIGHEST ANNUAL MEAN					17300	
LOWEST ANNUAL MEAN					563	
HIGHEST DAILY MEAN	95400	Jan 1	173000	Feb 18	648000	Dec 23 1964
LOWEST DAILY MEAN	91	Oct 9	53	Sep 15	12	Aug 12 1924
ANNUAL SEVEN-DAY MINIMUM	92	Oct 4	55	Sep 12	14	Aug 10 1924
MAXIMUM PEAK FLOW			217000	Feb 18	752000	Dec 23 1964
MAXIMUM PEAK STAGE			45.26	Feb 18	72.00	Dec 23 1964
INSTANTANEOUS LOW FLOW					10	Aug 12 1924
ANNUAL RUNOFF (AC-FT)	6733000		5560000		5316000	
10 PERCENT EXCEEDS	25000		19900		18000	
50 PERCENT EXCEEDS	3060		1220		1390	
90 PERCENT EXCEEDS	125		93		102	

11478500 VAN DUZEN RIVER NEAR BRIDGEVILLE, CA

LOCATION.—Lat 40°28'50", long 123°53'23", in NE 1/4 SE 1/4 sec.12, T.1 N., R.2 E., **Humboldt County**, Hydrologic Unit 18010105, on left bank, at downstream side of bridge on State Highway 36, 0.9 mi upstream from Grizzly Creek, and 5 mi west of Bridgeville.

DRAINAGE AREA.—222 mi².

PERIOD OF RECORD.—October 1950 to current year.

CHEMICAL DATA: Water years 1958–81.

WATER TEMPERATURE: Water years 1955–79.

TURBIDITY: Water years 1964–67.

SEDIMENT DATA: Water years 1955–67.

REVISED RECORDS.—WSP 1735: Drainage area.

GAGE.—Water-stage recorder and crest-stage gage. Datum of gage is 358.18 ft above NGVD of 1929. Prior to Oct. 1, 1965, at site 2.4 mi upstream at different datum.

REMARKS.—Records fair. No storage or large diversion upstream from station. See schematic diagram of [Eel River Basin](#).

EXTREMES OUTSIDE PERIOD OF RECORD.—Peak of Jan. 21, 1943, had a discharge estimate of 22,900 ft³/s, based on method in WRI 77-21.

EXTREMES FOR PERIOD OF RECORD.—Maximum discharge, 48,700 ft³/s, Dec. 22, 1964, gage height, 24.0 ft, from floodmarks, present site and datum, from rating curve extended above 20,000 ft³/s, on basis of slope-area measurement at gage height 21.3 ft, former site and datum; minimum daily, 3.3 ft³/s, Sept. 26, 2002.

EXTREMES FOR CURRENT YEAR.—Peak discharges greater than base discharge of 15,000 ft³/s, or maximum:

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Dec. 14	0145	18,000	11.41	Feb. 17	1430	26,000	14.37

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6.2	8.1	929	6260	1310	1750	510	291	75	26	10	6.2
2	6.3	9.4	927	3810	2740	1580	447	272	72	24	10	5.9
3	6.4	14	431	2380	2700	1320	402	256	68	23	9.5	5.8
4	6.6	15	285	1820	2200	1160	372	240	65	22	9.7	5.7
5	6.7	15	802	1480	1740	1070	346	228	61	23	9.7	5.6
6	6.7	13	6070	1400	1580	1010	330	215	58	26	9.4	5.6
7	6.7	15	3450	1760	1600	958	311	207	57	24	9.4	5.6
8	6.6	34	1910	3350	1320	1050	293	212	57	22	9.3	5.1
9	6.5	102	1250	5350	1140	1050	282	193	56	22	9.1	5.0
10	6.4	171	1870	4050	1000	1010	269	185	55	21	8.5	4.8
11	6.4	109	2120	2540	895	893	258	178	53	20	7.8	4.9
12	6.5	69	4180	2110	812	810	248	168	51	20	7.3	5.0
13	6.5	50	10300	2110	745	745	240	155	49	19	6.9	5.0
14	6.5	43	9790	2140	739	689	256	145	46	18	6.6	4.9
15	6.7	149	3560	2250	764	643	390	137	45	18	6.3	5.1
16	6.8	262	2340	1750	4810	605	404	131	43	17	6.2	5.1
17	6.7	298	1820	1450	22100	561	346	128	41	16	6.5	5.1
18	6.8	204	1550	1250	11700	530	306	155	39	16	6.2	5.3
19	7.0	132	1620	1150	4520	494	321	139	37	16	6.1	6.0
20	6.9	103	3070	1050	2700	435	865	127	35	16	6.2	6.8
21	6.7	89	1920	927	1920	405	1820	127	34	15	6.0	7.0
22	6.9	76	1580	824	1580	390	1240	126	34	15	6.2	7.1
23	6.6	64	1500	794	1320	378	890	113	34	14	6.6	6.5
24	6.5	55	4170	1390	1330	358	717	107	33	12	7.5	6.0
25	6.7	53	3240	1110	3690	474	605	101	32	12	8.7	5.6
26	6.7	61	2160	941	7290	872	517	94	30	11	9.1	5.4
27	6.5	62	1640	1770	3890	1170	451	88	29	11	9.5	5.1
28	6.5	55	1420	1910	2400	892	402	93	29	10	9.4	5.1
29	6.5	90	6950	1470	1820	725	357	95	28	10	8.7	5.2
30	6.5	443	4010	1730	---	692	318	86	27	10	7.7	5.4
31	7.3	---	2510	1530	---	604	---	80	---	10	6.7	---
TOTAL	205.3	2863.5	89374	63856	92355	25323	14513	4872	1373	539	246.8	166.9
MEAN	6.62	95.5	2883	2060	3185	817	484	157	45.8	17.4	7.96	5.56
MAX	7.3	443	10300	6260	22100	1750	1820	291	75	26	10	7.1
MIN	6.2	8.1	285	794	739	358	240	80	27	10	6.0	4.8
AC-FT	407	5680	177300	126700	183200	50230	28790	9660	2720	1070	490	331

EEL RIVER BASIN

11478500 VAN DUZEN RIVER NEAR BRIDGEVILLE, CA—Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1951 - 2004, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	136	857	1917	2265	2045	1595	919	438	137	35.3	16.4	18.7
MAX	1464	5476	6046	6608	6232	5015	3255	1139	821	98.0	82.4	144
(WY)	1963	1974	1956	1995	1958	1995	1963	1953	1993	1953	1983	1986
MIN	4.48	16.8	18.8	1.03	1.56	1.72	1.31	1.09	40.4	12.2	5.88	3.89
(WY)	2003	1960	1977	1977	1977	1988	1977	1985	1987	1977	2002	2002

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1951 - 2004	
ANNUAL TOTAL	343003.8		295687.5			
ANNUAL MEAN	940		808		860	
HIGHEST ANNUAL MEAN					1610	
LOWEST ANNUAL MEAN					95.7	
HIGHEST DAILY MEAN	10300	Dec 13	22100	Feb 17	33900	Dec 22 1964
LOWEST DAILY MEAN	6.0	Sep 29	4.8	Sep 10	3.3	Sep 26 2002
ANNUAL SEVEN-DAY MINIMUM	6.2	Sep 26	5.0	Sep 8	3.5	Sep 23 2002
MAXIMUM PEAK FLOW			26000	Feb 17	48700	Dec 22 1964
MAXIMUM PEAK STAGE			14.37	Feb 17	24.00	Dec 22 1964
ANNUAL RUNOFF (AC-FT)	680300		586500		623300	
10 PERCENT EXCEEDS	2500		2110		2140	
50 PERCENT EXCEEDS	291		108		178	
90 PERCENT EXCEEDS	7.0		6.4		11	

11479560 EEL RIVER AT FERNBRIDGE, CA

LOCATION.—Lat 40°36'57", long 124°12'06", in SW 1/4 NE 1/4 sec.29, T.3 N., R.1 W., [Humboldt County](#), Hydrologic Unit 18010105, on right bank, downstream from bridge on county road, and at Fernbridge.

DRAINAGE AREA.—3,614 mi².

PERIOD OF RECORD.—October 1989 to current year. Records prior to October 1989 are in the files of the California Department of Water Resources.

GAGE.—Water-stage recorder. Datum of gage is 3.64 ft above NGVD of 1929.

REMARKS.—Data is collected for flood-warning purposes only. Gage heights published above 0.52 ft. See schematic diagram of [Eel River Basin](#).

EXTREMES FOR PERIOD OF RECORD.—Maximum gage height, 25.31 ft, Jan. 9, 1995.

GAGE HEIGHT, FEET, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	---	---	---	---	2.63	0.82	14.61	7.56	4.15	3.75	7.10	6.61
2	---	---	---	---	3.12	2.63	14.88	10.89	6.88	3.71	6.64	6.19
3	---	---	---	---	2.93	1.95	10.89	8.21	9.03	6.88	6.19	5.48
4	---	---	---	---	1.95	1.30	8.21	6.58	8.53	7.10	5.48	4.97
5	---	---	---	---	2.29	1.24	6.58	5.49	7.10	5.86	4.97	4.54
6	---	---	---	---	7.47	2.29	5.49	4.80	5.86	5.24	4.55	4.22
7	---	---	---	---	10.21	7.33	5.00	4.68	5.53	5.17	4.23	3.94
8	---	---	---	---	7.33	4.63	5.92	5.00	5.17	4.46	3.95	3.84
9	0.65	---	---	---	4.63	3.28	8.28	5.75	4.46	3.96	3.92	3.83
10	---	---	---	---	5.60	3.28	8.64	7.84	3.96	3.55	3.92	3.81
11	---	---	0.56	---	6.99	5.60	7.84	6.40	3.55	3.20	3.94	3.65
12	0.82	---	0.58	---	7.15	5.26	6.40	5.72	3.21	2.93	3.69	3.43
13	---	---	---	---	12.97	7.15	5.87	5.19	2.95	2.77	3.48	3.28
14	---	---	---	---	14.90	12.97	5.20	4.87	2.88	2.61	3.31	3.14
15	---	---	---	---	13.70	7.62	5.55	5.05	2.73	2.54	3.17	3.03
16	---	---	1.10	---	7.62	5.69	5.46	4.73	11.12	2.55	3.10	2.95
17	---	---	1.15	0.97	5.69	4.46	4.73	4.20	22.50	11.12	3.02	2.86
18	---	---	0.97	0.71	4.46	3.64	4.21	3.81	22.98	17.37	2.90	2.76
19	---	---	0.76	0.63	3.64	3.31	3.84	3.51	17.37	11.53	2.82	2.66
20	---	---	0.63	---	5.70	3.44	3.60	3.24	11.53	8.77	2.68	2.46
21	---	---	0.54	---	5.76	4.47	3.30	2.97	8.77	7.28	2.46	2.27
22	---	---	0.51	---	4.47	3.79	3.06	2.72	7.28	6.38	2.29	2.20
23	---	---	0.58	---	3.95	3.40	2.80	2.61	6.38	5.67	2.22	2.14
24	---	---	0.95	---	9.32	3.45	3.54	2.78	5.68	5.53	2.23	2.12
25	0.79	---	1.23	---	10.11	8.47	3.41	3.11	10.64	5.58	2.35	2.04
26	0.96	---	1.25	---	8.47	6.32	3.12	2.75	14.69	10.64	3.26	2.35
27	1.14	---	0.60	---	6.32	5.00	4.72	2.75	14.64	11.15	3.36	3.26
28	1.23	---	---	---	5.00	4.16	5.83	4.72	11.15	8.50	3.38	3.10
29	0.94	---	---	---	14.85	4.47	5.45	4.37	8.50	7.10	3.10	2.68
30	0.70	---	0.82	---	14.96	10.36	4.58	4.27	---	---	2.77	2.68
31	---	---	---	---	10.36	7.57	4.54	4.15	---	---	2.70	2.48
MONTH	---	---	---	---	14.96	0.82	14.88	2.61	22.98	2.54	7.10	2.04

11480390 MAD RIVER ABOVE RUTH RESERVOIR, NEAR FOREST GLEN, CA

LOCATION.—Lat 40°17'04", long 123°20'03", in NW 1/4 NE 1/4 sec.24, T.2 S., R.7 E., [Trinity County](#), Hydrologic Unit 18010102, Six Rivers National Forest, on left bank, on downstream side of Zenia Road Bridge, 500 ft downstream from unnamed creek, 0.4 mile downstream from Tompkins Creek, and 6.1 mi southwest of Forest Glen.

DRAINAGE AREA.—93.8 mi².

PERIOD OF RECORD.—June 1980 to current year. Discharge measurements only September to December 1971, July 1972, June to September 1977.

REVISED RECORDS.—WDR CA-80-2: Drainage area.

GAGE.—Water-stage recorder and crest-stage gage. Elevation of gage is 2,700 ft above NGVD of 1929, from topographic map. June 28 to Sept. 30, 1990, nonrecording gage 400 ft upstream at different datum.

REMARKS.—Records good. No regulation or diversion upstream from station.

EXTREMES FOR PERIOD OF RECORD.—Maximum discharge, 15,000 ft³/s, Feb. 17, 1986, gage height, 11.39 ft in gage, 12.94 ft from crest-stage gage, from rating curve extended above 5,000 ft³/s, maximum gage height, 13.10 ft, Jan. 20, 1993; no flow at times each year.

EXTREMES FOR CURRENT YEAR.—Peak discharges greater than base discharge of 3,000 ft³/s, or maximum:

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Dec. 14	0345	3,640	8.07	Feb. 17	1830	8,500	10.89

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.00	0.00	211	1280	382	789	150	75	22	4.1	0.00	0.00
2	0.00	0.00	207	953	794	743	136	70	20	3.8	0.00	0.00
3	0.00	0.00	96	613	930	607	125	66	19	3.6	0.00	0.00
4	0.00	0.00	64	463	789	503	114	62	18	3.4	0.00	0.00
5	0.00	0.00	270	369	628	434	106	60	17	3.1	0.00	0.00
6	0.00	0.00	1280	331	533	383	100	57	16	2.9	0.00	0.00
7	0.00	0.00	894	534	470	354	92	58	15	2.6	0.00	0.00
8	0.00	0.00	478	1080	397	357	86	61	15	2.5	0.00	0.00
9	0.00	0.56	297	1750	336	340	80	55	15	2.3	0.00	0.00
10	0.00	0.10	450	1450	286	308	75	52	14	2.2	0.00	0.00
11	0.00	0.00	652	954	249	271	70	50	14	2.2	0.00	0.00
12	0.00	0.00	1060	768	218	241	67	48	13	2.0	0.00	0.00
13	0.00	0.00	2530	697	196	214	65	45	12	1.8	0.00	0.00
14	0.00	0.00	2210	723	182	189	73	43	12	1.7	0.00	0.00
15	0.00	0.57	878	780	276	171	97	40	11	1.6	0.00	0.00
16	0.00	4.9	542	623	1900	156	95	38	9.9	1.5	0.00	0.00
17	0.00	32	384	502	6520	144	86	38	9.1	1.4	0.00	0.00
18	0.00	30	286	412	4540	134	82	38	8.3	1.3	0.00	0.00
19	0.00	18	325	346	1950	124	97	37	7.6	1.3	0.00	0.00
20	0.00	12	795	293	1180	115	148	39	7.1	1.2	0.00	0.00
21	0.00	8.8	517	245	853	107	306	41	6.6	1.1	0.00	0.00
22	0.00	6.4	386	208	670	102	236	38	6.2	0.99	0.00	0.00
23	0.00	4.8	340	188	549	97	179	34	5.8	0.85	0.00	0.00
24	0.00	4.0	882	258	510	95	150	32	5.4	0.88	0.00	0.00
25	0.00	3.4	878	224	1090	147	130	30	5.1	0.66	0.00	0.00
26	0.00	2.9	625	207	2110	234	115	29	4.8	0.49	0.00	0.00
27	0.00	2.6	458	669	1380	353	103	27	4.6	0.34	0.00	0.00
28	0.00	2.5	365	703	940	274	95	27	4.5	0.18	0.00	0.00
29	0.00	103	1900	529	733	222	87	27	4.4	0.09	0.00	0.00
30	0.00	242	1250	504	---	192	81	25	4.3	0.05	0.00	0.00
31	0.00	---	773	428	---	170	---	23	---	0.02	0.00	---
TOTAL	0.00	478.53	22283	19084	31591	8570	3426	1365	326.7	52.15	0.00	0.00
MEAN	0.00	16.0	719	616	1089	276	114	44.0	10.9	1.68	0.00	0.00
MAX	0.00	242	2530	1750	6520	789	306	75	22	4.1	0.00	0.00
MIN	0.00	0.00	64	188	182	95	65	23	4.3	0.02	0.00	0.00
AC-FT	0.00	949	44200	37850	62660	17000	6800	2710	648	103	0.00	0.00

MAD RIVER BASIN

11480390 MAD RIVER ABOVE RUTH RESERVOIR, NEAR FOREST GLEN, CA—Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1980 - 2004, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	4.79	152	480	626	643	483	258	114	41.9	6.56	1.02	0.79
MAX	57.6	741	1684	1887	2136	1299	878	385	229	25.0	4.87	12.2
(WY)	1990	1985	1997	1995	1986	1995	1982	2003	1993	1993	1993	1986
MIN	0.00	0.00	8.08	28.5	85.3	38.6	32.0	20.4	4.25	1.15	0.00	0.00
(WY)	1988	1994	1991	1991	1991	1988	1988	1987	2001	2001	1984	1984

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1980 - 2004	
ANNUAL TOTAL	105917.97		87176.38			
ANNUAL MEAN	290		238		233	
HIGHEST ANNUAL MEAN					419	
LOWEST ANNUAL MEAN					51.4	
HIGHEST DAILY MEAN	2530	Dec 13	6520	Feb 17	10300	Jan 1 1997
LOWEST DAILY MEAN	0.00	Aug 25	0.00	Oct 1	0.00	Oct 8 1980
ANNUAL SEVEN-DAY MINIMUM	0.00	Aug 25	0.00	Oct 1	0.00	Sep 11 1982
MAXIMUM PEAK FLOW			8500	Feb 17	15000	Feb 17 1986
MAXIMUM PEAK STAGE			10.89	Feb 17	13.10	Jan 20 1993
ANNUAL RUNOFF (AC-FT)	210100		172900		168500	
10 PERCENT EXCEEDS	866		726		627	
50 PERCENT EXCEEDS	85		27		33	
90 PERCENT EXCEEDS	0.00		0.00		0.00	

11480400 RUTH RESERVOIR NEAR FOREST GLEN, CA

LOCATION.—Lat 40°22'08", long 123°25'56", in NW 1/4 NW 1/4 sec.19, T.1 S., R.7 E., Trinity County, Hydrologic Unit 18010102, Six Rivers National Forest, near center of Robert W. Matthews Dam on Mad River, and 5.6 mi west of Forest Glen.

DRAINAGE AREA.—121 mi².

PERIOD OF RECORD.—October 1966 to current year. Records prior to October 1966 in files of Humboldt Bay Municipal Water District.

GAGE.—Water-stage recorder. Datum of gage is NGVD of 1929 (levels by Humboldt Bay Municipal Water District).

REMARKS.—Reservoir is formed by earthfill dam; storage began July 1961. Total capacity, 48,000 acre-ft, elevation, 2,654.0 ft, crest of spillway. Minimum pool capacity, 7,810 acre-ft, elevation, 2,600 ft. Water is released down Mad River for municipal use. Records given represent total contents at 2400 hours.

COOPERATION.—Since Apr. 1, 2004, records provided by Humboldt Bay Municipal Water District, under general supervision of the U.S. Geological Survey. Contents not rounded to U.S. Geological Survey standards.

EXTREMES FOR PERIOD OF RECORD.—Maximum contents, 68,000 acre-ft, Feb. 17, 1986, elevation, 2,667.06 ft; minimum, 11,700 acre-ft, Oct. 24–28, 1977; minimum elevation, 2,607.13 ft, Oct. 28, 1977.

Capacity table (elevation, in feet, and contents, in acre-feet)
(Based on table provided by Humboldt Bay Municipal Water District dated 1977)

2,600	7,807	2,620	18,403	2,640	33,988	2,655	49,162
2,605	10,205	2,625	21,505	2,645	38,557	2,660	55,304
2,610	12,603	2,630	25,471	2,650	43,855	2,664	60,217
2,615	15,323	2,635	29,435				

RESERVOIR STORAGE, ACRE FEET, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAILY OBSERVATION AT 2400 HOURS

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	33231	29301	27643	50598	49223	50316	48167	48231	46588	44395	40538	36346
2	33131	29221	28024	51286	49198	50254	48104	48262	46557	44268	40379	36191
3	32994	29126	28293	50746	50033	50107	48092	48358	46514	44226	40252	36091
4	32894	28999	28674	50046	50267	49861	48029	48453	46451	44088	40072	35990
5	32730	28967	28650	49554	50169	49579	47913	48421	46397	44035	39934	35845
6	32639	28904	29221	49210	49861	49370	47648	48199	46334	43939	39775	35726
7	32475	28888	32730	49110	49616	49247	47415	47860	46239	43780	39669	35608
8	32393	28777	34697	49493	49419	49131	47521	47553	46207	43706	39542	35444
9	32220	28888	35326	50930	49174	49078	47584	47213	46164	43526	39394	35326
10	32084	28753	35608	51937	49046	48962	47659	46959	46101	43420	39256	35262
11	32020	28650	36509	51937	48930	48909	47701	46896	46006	43314	39108	35116
12	31838	28547	37511	50709	48771	48835	47711	46938	45984	43208	38938	35016
13	31710	28452	39701	50303	48633	48697	47754	46949	45910	43092	38832	34888
14	31583	28341	45910	50132	48623	48612	47860	46980	45846	42975	38652	34725
15	31455	28309	50230	50144	48527	48517	47913	46917	45815	42848	38476	34597
16	31355	28222	50230	50144	49223	48453	47976	46949	45741	42700	38367	34278
17	31246	28150	49689	49874	52674	48347	47881	46949	45688	42604	38230	34133
18	31146	28055	49284	49567	57870	48273	47998	46906	45571	42477	38094	33996
19	30982	27976	48941	49321	54873	48178	48029	46927	45518	42339	37994	33860
20	30864	27913	49110	49161	52576	48051	48061	46927	45444	42223	37839	33741
21	30809	27825	49751	48919	51274	47913	48411	46959	45370	42117	37693	33659
22	30654	27714	49493	48813	50549	47764	48453	46927	45253	42021	37575	33513
23	30518	27653	49174	48633	50132	47616	48358	46927	45168	41873	37447	33422
24	30408	27540	49131	48580	49640	47436	48252	46896	45105	41735	37320	33295
25	30272	27476	50402	48602	49395	47253	48167	46896	44988	41566	37192	33140
26	30153	27421	50439	48602	51237	47266	48051	46853	44882	41449	37047	33040
27	30026	27262	49972	48559	51679	47521	48040	46811	44777	41333	36946	32940
28	29889	27230	49468	49530	50795	47924	47669	46768	44724	41153	36837	32803
29	29744	27373	49296	49702	50119	48199	47680	46758	44628	41026	36701	32648
30	29616	27302	52134	49518	---	48294	47754	46705	44512	40856	36564	32521
31	29452	---	51335	49419	---	48231	---	46684	---	40729	36436	---
MAX	33231	29301	52134	51937	57870	50316	48453	48543	46588	44395	40538	36346
MIN	29452	27301	27643	48559	48527	47253	47415	46684	44512	40729	36436	32521
a	2635.02	2632.31	2656.77	2655.47	2655.78	2654.13	2653.68	2652.67	2650.62	2647.05	2642.69	2638.39
b	-4348	-2150	+24033	-1916	+700	-1888	-477	-1070	-2172	-3783	-4293	-3915

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

11480410 MAD RIVER BELOW RUTH RESERVOIR, NEAR FOREST GLEN, CA

LOCATION (REVISED).—Lat 40°22'16", long 123°26'06", in SW 1/4 SW 1/4 sec.18, T.1 S., R.7 E., Trinity County, Hydrologic Unit 18010102, Six Rivers National Forest, on left bank, at Robert W. Matthews Dam, and 5.8 mi west of Forest Glen.

DRAINAGE AREA.—121 mi².

PERIOD OF RECORD.—October 1980 to current year.

GAGE.—Ultrasonic flow meter and Ogee spillway. October 1980 to April 2004, water-stage recorder and crest-stage gage. Elevation of gage is 2,560 ft above NGVD of 1929, from topographic map.

REMARKS.—Flow regulated by Ruth Reservoir (station 11480400).

COOPERATION.—Since Apr. 1, 2004, records collected by Humboldt Bay Municipal Water District, under general supervision of the U.S. Geological Survey.

EXTREMES FOR PERIOD OF RECORD.—Maximum discharge, 17,800 ft³/s, Feb. 17, 1986, gage height, 17.61 ft, from floodmarks, from rating curve extended above 8,800 ft³/s; minimum daily, 5.6 ft³/s, Mar. 2, 1991.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	58	57	64	1490	555	e762	249	96	43	50	71	63
2	58	57	58	1590	704	e742	244	95	43	50	63	65
3	58	63	58	1140	1050	1020	243	46	43	50	63	62
4	57	67	79	825	1060	801	243	43	41	50	73	62
5	57	67	58	637	921	694	204	92	38	50	64	62
6	60	67	58	535	777	613	243	216	38	50	63	62
7	57	67	111	589	687	549	146	245	44	50	64	59
8	57	67	246	952	601	518	73	245	44	54	63	54
9	57	67	247	1850	525	499	73	244	44	57	61	54
10	57	67	125	2100	466	465	73	204	45	57	58	54
11	57	67	249	1580	416	429	74	95	45	57	58	54
12	57	66	248	1200	372	388	75	52	45	69	58	54
13	57	66	258	1050	344	357	84	52	45	66	58	54
14	57	66	547	972	318	327	95	52	45	57	58	54
15	57	66	1120	1030	210	279	126	52	45	54	58	54
16	61	66	916	931	1220	287	162	52	45	52	58	54
17	61	68	655	781	5920	270	164	52	45	50	72	54
18	61	66	515	662	7000	255	134	52	45	50	62	56
19	61	67	431	565	3690	245	246	52	45	50	58	55
20	61	67	722	492	2160	244	253	52	45	51	58	60
21	61	67	748	430	1470	244	229	51	43	53	58	60
22	61	67	611	378	1100	220	296	51	39	50	58	60
23	60	67	525	340	880	244	288	51	76	56	62	60
24	57	67	878	344	781	243	270	50	39	59	64	60
25	57	66	1210	337	e464	243	253	44	41	59	63	60
26	57	66	1030	321	e1120	243	180	43	47	63	63	60
27	57	66	787	482	e1280	244	125	43	51	64	63	60
28	57	66	619	753	e928	246	98	43	53	64	63	60
29	57	66	2460	747	e683	237	86	43	43	64	63	60
30	57	67	2150	689	---	261	93	43	59	64	64	59
31	57	---	1500	627	---	256	---	43	---	64	63	---
TOTAL	1804	1976	19283	26419	37702	12425	5122	2594	1364	1734	1925	1745
MEAN	58.2	65.9	622	852	1300	401	171	83.7	45.5	55.9	62.1	58.2
MAX	61	68	2460	2100	7000	1020	296	245	76	69	73	65
MIN	57	57	58	321	210	220	73	43	38	50	58	54
AC-FT	3580	3920	38250	52400	74780	24640	10160	5150	2710	3440	3820	3460

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1981 - 2004, BY WATER YEAR (WY)

MEAN	81.6	134	496	773	836	671	359	161	82.2	61.1	75.1	80.3
MAX	118	607	1780	2490	2993	1990	1426	542	408	89.3	103	101
(WY)	1984	1985	1997	1995	1986	1995	1982	2003	1993	1987	1990	1986
MIN	55.5	24.5	8.35	8.02	7.61	24.4	28.0	44.5	38.2	42.5	44.6	54.1
(WY)	2003	1993	1987	1992	1991	1988	1988	2001	1991	1982	1998	1998

SUMMARY STATISTICS

	FOR 2003 CALENDAR YEAR	FOR 2004 WATER YEAR	WATER YEARS 1981 - 2004
ANNUAL TOTAL	140320	114093	
ANNUAL MEAN	384	312	315
HIGHEST ANNUAL MEAN			591
LOWEST ANNUAL MEAN			68.7
HIGHEST DAILY MEAN	3440	7000	13600
LOWEST DAILY MEAN	39	38	5.6
ANNUAL SEVEN-DAY MINIMUM	39	41	6.0
MAXIMUM PEAK FLOW		8680	17800
MAXIMUM PEAK STAGE		unknown	17.61
ANNUAL RUNOFF (AC-FT)	278300	226300	228500
10 PERCENT EXCEEDS	1020	808	760
50 PERCENT EXCEEDS	76	66	87
90 PERCENT EXCEEDS	46	50	41

e Estimated.

11481000 MAD RIVER NEAR ARCATA, CA

LOCATION.—Lat 40°54'35", long 124°03'35", in NW 1/4 NW 1/4 sec.15, T.6 N., R.1 E., [Humboldt County](#), Hydrologic Unit 18010102, on right bank, 100 ft upstream from bridge on U.S. Highway 299, 1.0 mi downstream from Warren Creek, and 2.8 mi northeast of Arcata.

DRAINAGE AREA.—485 mi².

PERIOD OF RECORD.—October 1910 to September 1913, August 1950 to current year. Monthly discharge only for some periods, published in WSP 1315-B.

CHEMICAL ANALYSES: Water years 1959–81.

WATER TEMPERATURE: Water years 1958–79.

TURBIDITY: Water years 1971–74.

SEDIMENT DATA: Water years 1955–74.

REVISED RECORDS.—WSP 2129: 1965(M).

GAGE.—Water-stage recorder and crest-stage gage. Datum of gage is 10.79 ft above NGVD of 1929. December 1910 to September 1913, nonrecording gage at site 0.1 mi upstream at different datum. Aug. 15, 1950, to July 23, 1956, water-stage recorder at site 0.6 mi upstream at datum 11.00 ft higher. July 24, 1956, to Aug. 10, 1992, water-stage recorder at different datums, at present site.

REMARKS.—Records good. Flow regulated by Ruth Reservoir (station 11480400), 68 mi upstream, beginning in July 1961. Water is diverted 0.5 mi upstream from station for municipal supply and industrial use in Humboldt Bay area.

EXTREMES FOR PERIOD OF RECORD.—Maximum discharge, 81,000 ft³/s, Dec. 22, 1964, gage height, 30.7 ft, prior datum, from high-water profile and flood-routing study; minimum daily, 0.10 ft³/s, Aug. 29, 1977.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	39	43	548	8080	2750	3940	1080	412	149	57	41	38
2	40	63	861	7370	3700	3650	969	386	142	57	41	36
3	40	90	460	5020	4620	3170	894	366	136	58	45	33
4	41	74	316	3610	4000	2750	834	349	130	56	39	34
5	42	64	317	2780	3310	2470	794	299	120	53	38	35
6	42	64	2880	2360	3040	2260	725	288	119	48	42	40
7	43	61	2450	2420	3560	2110	723	384	114	47	43	35
8	45	84	2070	3180	2760	2100	646	463	114	43	43	31
9	45	161	1390	5620	2310	2060	506	443	115	42	40	34
10	40	154	1390	5600	2010	1950	456	442	111	45	39	33
11	41	124	2280	4220	1790	1760	422	434	106	51	42	34
12	44	92	3870	3430	1600	1600	397	342	101	52	40	34
13	44	80	13900	3440	1450	1450	384	260	97	52	39	35
14	40	75	9570	3200	1350	1310	414	229	93	52	41	34
15	43	195	5300	3780	1250	1190	591	214	90	51	40	35
16	45	251	3730	3110	3270	1080	667	204	86	47	37	35
17	40	315	2820	2580	23600	1030	707	200	82	45	35	37
18	40	265	2270	2220	23300	967	660	259	80	46	35	40
19	38	180	2070	2050	12200	908	596	262	79	45	37	45
20	36	160	3230	1890	7400	847	880	225	79	43	38	46
21	37	154	2750	1670	5250	808	2790	213	76	39	37	43
22	38	143	2340	1460	4060	785	2300	209	75	36	44	40
23	38	133	2100	1380	3450	746	1680	196	73	36	49	38
24	38	125	3240	3280	3150	741	1340	179	69	35	53	37
25	38	119	4590	2520	4300	805	1120	171	69	33	54	35
26	40	156	3790	2000	9850	1210	950	161	60	38	55	35
27	36	190	2960	2930	8220	1670	780	162	56	38	51	35
28	35	163	2490	3990	5750	1500	617	210	59	39	44	35
29	37	243	8860	3200	4370	1230	539	218	67	38	39	35
30	37	719	7820	3730	---	1350	453	180	57	38	37	34
31	40	---	4750	3440	---	1290	---	160	---	41	37	---
TOTAL	1242	4740	107412	105560	157670	50737	25914	8520	2804	1401	1295	1091
MEAN	40.1	158	3465	3405	5437	1637	864	275	93.5	45.2	41.8	36.4
MAX	45	719	13900	8080	23600	3940	2790	463	149	58	55	46
MIN	35	43	316	1380	1250	741	384	160	56	33	35	31
AC-FT	2460	9400	213100	209400	312700	100600	51400	16900	5560	2780	2570	2160

MAD RIVER BASIN

11481000 MAD RIVER NEAR ARCATA, CA—Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1911 - 1960, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	313	1081	2997	4588	4164	2438	1716	1167	358	97.2	40.3	39.3
MAX	2303	2903	9335	9175	9830	5054	3450	2669	1311	210	68.2	128
(WY)	1951	1954	1956	1953	1958	1957	1958	1953	1953	1953	1953	1912
MIN	22.0	32.0	136	852	1232	1028	489	277	104	36.6	19.2	18.2
(WY)	1953	1960	1960	1960	1955	1955	1951	1954	1959	1959	1959	1951

SUMMARY STATISTICS

WATER YEARS 1911 - 1960

ANNUAL MEAN	1573
HIGHEST ANNUAL MEAN	2377 1958
LOWEST ANNUAL MEAN	943 1955
HIGHEST DAILY MEAN	63100 Dec 22 1955
LOWEST DAILY MEAN	17 Sep 8 1951
ANNUAL SEVEN-DAY MINIMUM	17 Sep 4 1959
MAXIMUM PEAK FLOW	77800 Dec 22 1955
MAXIMUM PEAK STAGE	27.30 Dec 22 1955
ANNUAL RUNOFF (AC-FT)	1139000
10 PERCENT EXCEEDS	4010
50 PERCENT EXCEEDS	400
90 PERCENT EXCEEDS	31

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1963 - 2004, BY WATER YEAR (WY)

MEAN	187	1189	2812	3533	3081	2783	1719	683	224	58.3	44.3	61.1
MAX	2255	6671	10400	8847	9796	7150	6253	2119	1721	152	123	392
(WY)	1963	1974	1965	1970	1986	1975	1963	2003	1993	1964	1983	1986
MIN	21.3	52.6	29.8	135	138	194	165	122	31.2	8.40	7.04	15.0
(WY)	1993	1994	1977	1977	1977	1988	1988	1968	1974	1977	1977	1992

SUMMARY STATISTICS

FOR 2003 CALENDAR YEAR

FOR 2004 WATER YEAR

WATER YEARS 1963 - 2004

ANNUAL TOTAL	558428	468386	
ANNUAL MEAN	1530	1280	1358
HIGHEST ANNUAL MEAN			2478 1974
LOWEST ANNUAL MEAN			151 1977
HIGHEST DAILY MEAN	13900 Dec 13	23600 Feb 17	58000 Dec 22 1964
LOWEST DAILY MEAN	31 Aug 26	31 Sep 8	0.10 Aug 29 1977
ANNUAL SEVEN-DAY MINIMUM	35 Sep 19	34 Sep 8	0.63 Aug 23 1977
MAXIMUM PEAK FLOW		29400 Feb 17	81000 Dec 22 1964
MAXIMUM PEAK STAGE		18.67 Feb 17	30.70 Dec 22 1964
ANNUAL RUNOFF (AC-FT)	1108000	929000	983800
10 PERCENT EXCEEDS	4300	3580	3720
50 PERCENT EXCEEDS	548	192	272
90 PERCENT EXCEEDS	40	37	32

11481200 LITTLE RIVER NEAR TRINIDAD, CA

LOCATION.—Lat 41°00'40", long 124°04'50", in NE 1/4 sec.8, T.7 N., R.1 E., Humboldt County, Hydrologic Unit 18010102, on right bank, 0.5 mi upstream from Coon Creek, 4.7 mi southeast of Trinidad, and 9.1 mi north of Arcata.

DRAINAGE AREA.—40.5 mi².

PERIOD OF RECORD.—October 1955 to current year. Prior to October 1971, published as "at Crannell."

REVISED RECORDS.—WSP 2129: 1956–60. WDR CA-78-2: Drainage area.

GAGE.—Water-stage recorder and crest-stage gage. Datum of gage is 17.62 ft above NGVD of 1929.

REMARKS.—Records good except for daily discharges below 15 ft³/s, which are fair. No storage or diversion upstream from station.

EXTREMES FOR PERIOD OF RECORD.—Maximum discharge, 9,830 ft³/s, Mar. 18, 1975, gage height, 14.19 ft, from rating curve extended above 3,100 ft³/s, on basis of slope-area measurement at gage height 14.08 ft; minimum daily, 1.8 ft³/s, Sept. 25–29, 1991.

EXTREMES OUTSIDE PERIOD OF RECORD.—Flood of Jan. 17, 18, 1953, reached a stage of 15.7 ft, observed by an employee of Hammond Lumber Co.

EXTREMES FOR CURRENT YEAR.—Peak discharges greater than base discharge of 3,000 ft³/s, or maximum:

Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Dec. 13	0100	4,810	9.47

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.2	3.8	56	1020	292	295	86	49	19	11	6.2	4.3
2	4.3	4.4	45	785	367	245	74	45	18	11	6.3	4.0
3	4.3	6.1	31	582	333	206	66	43	18	10	6.3	3.9
4	4.3	5.7	26	452	274	183	61	42	18	10	6.0	3.8
5	4.4	6.3	76	347	229	166	56	41	18	9.8	5.9	3.7
6	4.3	7.1	496	282	298	149	53	38	18	9.0	6.1	3.7
7	4.3	8.0	219	250	419	131	49	38	18	8.7	6.3	3.5
8	4.0	20	233	222	298	119	46	37	18	8.4	5.8	3.3
9	4.3	36	139	207	233	109	43	34	18	8.2	5.2	3.4
10	4.3	18	136	185	192	101	40	33	17	8.0	4.9	3.4
11	4.1	8.9	360	167	166	94	37	33	17	8.0	4.9	3.3
12	4.5	6.7	839	162	146	87	36	30	16	7.9	4.8	3.3
13	4.5	5.7	2460	152	135	82	36	29	15	8.0	4.5	3.1
14	4.1	6.0	1280	187	127	75	49	27	15	8.2	4.4	3.1
15	4.0	49	465	296	119	70	122	26	14	8.0	4.5	3.1
16	4.0	28	280	222	958	66	86	25	14	7.6	4.5	3.1
17	4.0	54	198	181	1500	63	65	27	14	7.6	4.0	3.2
18	4.0	23	154	163	1150	60	59	34	14	7.0	3.9	4.3
19	4.2	15	185	150	591	56	66	27	15	6.8	3.8	7.4
20	4.3	26	245	137	376	52	132	25	14	6.6	3.8	6.6
21	4.3	23	174	122	289	49	413	24	14	6.5	3.8	4.7
22	4.2	19	139	110	238	48	239	23	14	6.4	5.7	4.1
23	4.3	14	132	142	202	47	159	22	14	6.2	7.4	4.0
24	4.3	11	278	514	211	46	123	21	14	6.2	7.3	3.8
25	4.2	11	434	292	242	67	101	20	13	6.3	7.1	3.8
26	3.8	23	311	223	1140	140	84	19	12	6.1	7.8	3.7
27	3.5	23	212	505	831	181	72	20	11	5.9	6.3	3.8
28	3.4	16	187	446	476	117	66	36	11	5.7	5.1	3.8
29	3.5	60	1920	348	338	91	61	26	11	5.7	4.5	4.2
30	3.5	79	722	475	---	119	54	22	11	5.7	4.3	4.3
31	3.6	---	400	374	---	106	---	20	---	5.9	4.2	---
TOTAL	127.0	616.7	12832	9700	12170	3420	2634	936	453	236.4	165.6	117.7
MEAN	4.10	20.6	414	313	420	110	87.8	30.2	15.1	7.63	5.34	3.92
MAX	4.5	79	2460	1020	1500	295	413	49	19	11	7.8	7.4
MIN	3.4	3.8	26	110	119	46	36	19	11	5.7	3.8	3.1
AC-FT	252	1220	25450	19240	24140	6780	5220	1860	899	469	328	233

LITTLE RIVER BASIN

11481200 LITTLE RIVER NEAR TRINIDAD, CA—Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1956 - 2004, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	25.4	154	319	341	296	250	141	74.4	31.9	12.9	8.10	7.53
MAX	202	849	1083	1145	816	819	521	271	168	31.4	23.3	28.4
(WY)	1963	1974	1965	1970	1986	1975	1963	1960	1993	1983	1983	1986
MIN	3.15	4.62	7.45	28.2	19.7	35.5	22.1	21.9	12.2	6.12	3.59	3.35
(WY)	2003	1994	1977	1977	1977	1988	1977	1987	1966	1959	1959	2001

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1956 - 2004	
ANNUAL TOTAL	53706.0		43408.4			
ANNUAL MEAN	147		119		138	
HIGHEST ANNUAL MEAN					240	
LOWEST ANNUAL MEAN					23.8	
HIGHEST DAILY MEAN	2460	Dec 13	2460	Dec 13	7860	Mar 18 1975
LOWEST DAILY MEAN	3.4	Oct 28	3.1	Sep 13	1.8	Sep 25 1991
ANNUAL SEVEN-DAY MINIMUM	3.6	Oct 26	3.2	Sep 11	1.9	Sep 24 1991
MAXIMUM PEAK FLOW			4810		9830	
MAXIMUM PEAK STAGE			9.47		14.19	
ANNUAL RUNOFF (AC-FT)	106500		86100		99810	
10 PERCENT EXCEEDS	368		298		359	
50 PERCENT EXCEEDS	45		23		35	
90 PERCENT EXCEEDS	4.3		4.0		5.7	

11481500 REDWOOD CREEK NEAR BLUE LAKE, CA

LOCATION.—Lat 40°54'22", long 123°48'51", in SE 1/4 NE 1/4 sec.15, T.6 N., R.3 E., Humboldt County, Hydrologic Unit 18010102, on right bank, 400 ft upstream from Lupton Creek, and 9.1 mi east of town of Blue Lake.

DRAINAGE AREA.—67.7 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.—June 1953 to September 1958, October 1972 to September 1993, October 1997 to current year.

REVISED RECORDS.—WDR CA-78-2: Drainage area.

GAGE.—Water-stage recorder and crest-stage gage. Elevation of gage is 850 ft above NGVD of 1929, from topographic map.

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

EXTREMES FOR PERIOD OF RECORD.—Maximum discharge, 12,200 ft³/s, Mar. 18, 1975, gage height, 13.70 ft, from rating curve extended above 6,400 ft³/s; minimum daily, 0.69 ft³/s, Sept. 30, 1993.

EXTREMES FOR CURRENT YEAR.—Peak discharges greater than base discharge of 2,300 ft³/s, or maximum:

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Dec. 13	0145	4,440	8.37	Feb. 17	1115	4,440	8.37
Dec. 29	0745	2,340	6.29				

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.7	4.3	143	1310	501	691	173	103	45	17	6.0	3.0
2	3.7	5.4	135	871	729	606	157	96	43	16	6.0	3.0
3	3.7	13	74	594	715	513	146	91	41	16	6.0	3.0
4	3.7	8.2	58	465	620	443	140	88	39	16	5.8	3.1
5	3.4	7.5	120	388	529	392	134	86	37	15	6.3	2.8
6	3.2	6.4	609	382	518	361	128	81	38	14	7.0	2.6
7	3.1	5.9	376	442	539	342	121	79	41	13	7.6	2.3
8	3.3	9.0	302	549	467	358	116	75	42	13	6.7	2.1
9	3.6	29	184	726	416	369	111	71	39	12	5.4	2.0
10	3.8	19	207	651	373	349	107	75	38	13	4.7	2.0
11	4.3	11	274	496	340	315	102	73	37	13	4.4	2.1
12	5.6	8.4	1270	467	314	287	99	70	35	12	3.9	2.2
13	6.0	7.3	2480	478	292	263	98	64	34	12	3.6	2.6
14	5.4	7.1	1330	515	284	241	118	61	32	11	3.3	3.0
15	4.5	68	614	541	284	224	161	58	30	11	3.3	2.9
16	4.3	46	386	429	1020	215	142	56	29	11	3.5	3.0
17	4.3	76	281	359	3670	205	131	56	26	11	3.4	3.3
18	4.4	34	225	332	2460	195	125	70	24	10	3.3	4.6
19	4.3	22	257	329	1320	181	125	62	24	10	3.2	6.2
20	4.3	25	423	316	922	164	204	58	22	10	2.9	6.7
21	3.9	22	274	281	722	158	529	55	21	e9.7	2.6	5.5
22	3.8	18	218	251	613	155	363	54	22	7.9	2.9	4.4
23	3.9	15	205	278	528	148	259	52	22	7.5	5.8	3.7
24	4.6	14	517	622	495	144	215	49	22	6.9	7.9	3.3
25	4.5	15	466	457	951	179	185	46	21	6.5	7.2	3.3
26	3.7	42	340	387	1670	205	164	44	19	6.1	9.4	3.6
27	3.1	31	266	622	1190	278	148	48	20	5.9	7.3	3.7
28	2.8	23	238	585	858	217	136	77	19	5.5	5.8	3.5
29	2.8	78	1490	498	695	196	122	68	18	5.1	4.6	3.2
30	3.2	127	790	697	---	219	112	54	18	5.8	3.9	3.4
31	4.0	---	563	586	---	199	---	49	---	5.9	3.4	---
TOTAL	122.9	797.5	15115	15904	24035	8812	4871	2069	898	328.8	157.1	100.1
MEAN	3.96	26.6	488	513	829	284	162	66.7	29.9	10.6	5.07	3.34
MAX	6.0	127	2480	1310	3670	691	529	103	45	17	9.4	6.7
MIN	2.8	4.3	58	251	284	144	98	44	18	5.1	2.6	2.0
AC-FT	244	1580	29980	31550	47670	17480	9660	4100	1780	652	312	199

e Estimated.

REDWOOD CREEK BASIN

11481500 REDWOOD CREEK NEAR BLUE LAKE, CA—Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1954 - 2004, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	33.6	228	449	504	563	463	295	156	64.5	20.4	9.15	8.12
MAX	226	1179	1563	1628	1479	1306	748	392	253	46.4	27.4	29.2
(WY)	1974	1974	1956	1956	1958	1975	1982	2003	1993	1993	1983	1986
MIN	1.82	15.2	12.3	31.3	42.2	81.5	62.6	53.0	22.3	9.21	3.14	1.72
(WY)	2003	1977	1977	1977	1977	1988	1988	1992	1987	2002	1992	2002

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1954 - 2004	
ANNUAL TOTAL	87433.9		73210.4			
ANNUAL MEAN	240		200		231	
HIGHEST ANNUAL MEAN					423	
LOWEST ANNUAL MEAN					44.2	
HIGHEST DAILY MEAN	2480	Dec 13	3670	Feb 17	8360	Mar 18 1975
LOWEST DAILY MEAN	2.3	Sep 27	2.0	Sep 9	0.69	Sep 30 1993
ANNUAL SEVEN-DAY MINIMUM	2.7	Sep 24	2.2	Sep 6	0.94	Sep 23 2002
MAXIMUM PEAK FLOW			4440	Dec 13	12200	Mar 18 1975
MAXIMUM PEAK STAGE			8.37	Dec 13	13.70	Mar 18 1975
INSTANTANEOUS LOW FLOW			1.6	Sep 9	1.6	Sep 9 2004
ANNUAL RUNOFF (AC-FT)	173400		145200		167600	
10 PERCENT EXCEEDS	618		543		592	
50 PERCENT EXCEEDS	101		49		73	
90 PERCENT EXCEEDS	3.9		3.4		5.8	

11481500 REDWOOD CREEK NEAR BLUE LAKE, CA—Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.—Water years 1973 to current year.

CHEMICAL DATA: Water years 1974–75.

WATER TEMPERATURE: Water years 1973–92, 2001–02.

SEDIMENT DATA: Water years 1973–92, 2001–02, October 2002 to current year (storm season only).

PERIOD OF DAILY RECORD.—

WATER TEMPERATURE: October 1972 to September 1992 (storm season only).

SUSPENDED-SEDIMENT DISCHARGE: October 1972 to September 1992, October 2000 to April 2002.

EXTREMES FOR PERIOD OF DAILY RECORD.—

WATER TEMPERATURE: Maximum recorded, 33.5°C, Aug. 2, 1977; minimum recorded, 0.5°C, Jan. 9, 1997.

SEDIMENT CONCENTRATION: Maximum daily mean, 11,200 mg/L, Mar. 18, 1975; minimum daily mean, 0 mg/L, at times in several years.

SEDIMENT LOAD: Maximum daily, 276,000 tons, Mar. 18, 1975; minimum daily, 0 ton, at times in several years.

REMARKS.—Periodic total load sampling above 1,000 ft³/s.

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Time	Instantaneous discharge, cfs (00061)	Temperature, water, deg C (00010)	Suspended sediment concentration, mg/L (80154)	Suspended sediment discharge, tons/d (80155)	Suspended sediment sieve diameter percent <.063mm (70331)	Suspended sediment sieve diameter percent <.125mm (70332)	Suspended sediment sieve diameter percent <.25mm (70333)	Suspended sediment sieve diameter percent <.5 mm (70334)	Suspended sediment sieve diameter percent <1 mm (70335)	Suspended sediment sieve diameter percent <2 mm (70336)
DEC											
13...	1310	1890	9.5	493	2520	66	74	82	88	94	100
29...	1445	1470	7.0	340	1350	51	59	68	79	93	100

PARTICLE-SIZE DISTRIBUTION OF BEDLOAD, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Time	Sampling method, code (82398)	Sampler type, code (84164)	Bag mesh size, bedload sampler mm (30333)	Tether line used in sampling (yes=1) code (04117)	Starting time, 24 hour clock, hr:min (82073)	Ending time, 24 hour clock, hr:min (82074)	Rest time on bed for bed load sample, seconds (04120)	Horizontal width of vertical, feet (04121)
DEC									
13...	1400	1000	1100	.250	0	1345	1415	15	4.0
13...	1435	1000	1100	.250	0	1420	1450	15	4.0
29...	1145	1000	1100	.250	0	1130	1205	15	4.0
29...	1225	1000	1100	.250	0	1210	1245	15	4.0

Date	Compstd samples in x-sec bedload measmt number (04118)	Verticals in composit sample, number (04119)	Number of samplings, points, count (00063)	Location in X-sect. looking downstrm ft from l bank (00009)	Instantaneous discharge, cfs (00061)	Temperature, water, deg C (00010)	Bedload sediment discharge, average unit, cmposit t/d/ft (04122)	Bedload sediment discharge, tons/d (80225)
DEC								
13...	2	23	23	2.00	1820	9.5	7.91	686
13...	2	23	23	2.00	1780	9.5	7.17	686
29...	2	20	20	2.00	1550	7.0	19.2	1560
29...	2	20	20	2.00	1490	7.0	19.2	1560

Date	Bedload sediment, sieve diameter percent <.5 mm (80229)	Bedload sediment, sieve diameter percent <1 mm (80230)	Bedload sediment, sieve diameter percent <2 mm (80231)	Bedload sediment, sieve diameter percent <4 mm (80232)	Bedload sediment, sieve diameter percent <8 mm (80233)	Bedload sediment, sieve diameter percent <16 mm (80234)	Bedload sediment, sieve diameter percent <32 mm (80235)	Bedload sediment, sieve diameter percent <64 mm (80236)
DEC								
13...	4	14	33	50	62	75	86	100
13...	4	12	30	58	80	92	95	100
29...	5	21	45	65	78	89	97	100
29...	5	23	54	80	88	92	96	100

11482500 REDWOOD CREEK AT ORICK, CA

LOCATION.—Lat 41°17'58", long 124°03'00", in NE 1/4 NE 1/4 sec.34, T.11 N., R.1 E., [Humboldt County](#), Hydrologic Unit 18010102, on right bank, on U.S. Highway 101, 0.8 mi north of Orick, 300 ft downstream from Prairie Creek, and 3.7 mi upstream from mouth.

DRAINAGE AREA.—277 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.—September 1911 to September 1913, October 1953 to current year. Monthly discharge only for some periods, published in WSP 1315-B.

REVISED RECORDS.—WSP 1315-B: 1912–13.

GAGE.—Water-stage recorder and crest-stage gage. Datum of gage is 5.16 ft above NGVD of 1929. Sept. 10, 1911, to Aug. 9, 1913, nonrecording gage at different datum. October 1953 to Apr. 16, 1987, at site 0.9 mi downstream at same datum. May 7 to Aug. 3, 1987, nonrecording gage at same site and datum.

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

EXTREMES FOR PERIOD OF RECORD.—Maximum discharge, 50,500 ft³/s, Dec. 22, 1964, former site, from outside high-water marks, maximum gage height, 28.22 ft, Jan. 1, 1997; minimum daily, 2.1 ft³/s, Oct. 20–22, 1987.

EXTREMES OUTSIDE PERIOD OF RECORD.—Flood of Jan. 18, 1953, reached a stage of 23.95 ft, former site, from floodmarks, discharge, 50,000 ft³/s.

EXTREMES FOR CURRENT YEAR.—Peak discharges greater than base discharge of 9,000 ft³/s, or maximum:

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Dec. 13	0745	17,300	22.21	Feb. 17	1700	11,000	19.93
Dec. 29	1515	10,100	19.53				

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.6	6.3	303	6120	2410	2990	574	439	162	70	22	14
2	7.5	6.4	297	6040	2770	2620	531	412	156	68	22	12
3	7.6	8.1	208	4420	2950	2210	498	393	151	66	22	11
4	7.6	10	148	3410	2510	1860	471	378	147	63	20	9.4
5	7.9	20	531	2780	2080	1600	450	368	141	60	21	8.5
6	8.0	22	2750	2430	2020	1430	435	351	138	55	21	7.9
7	8.1	26	1710	2490	2580	1260	417	345	139	52	23	7.2
8	8.2	62	1470	2470	2130	1150	399	338	139	49	23	6.7
9	8.6	119	830	2590	1770	1090	382	315	138	47	20	6.3
10	8.2	98	737	2450	1520	1020	363	311	133	46	19	5.8
11	7.9	66	1590	1960	1300	951	346	309	129	45	17	5.4
12	8.4	43	3220	1740	1140	882	334	295	124	45	15	5.2
13	8.5	30	13500	1660	1050	822	327	278	120	44	14	4.7
14	8.4	24	9220	1670	998	769	372	266	116	44	13	4.2
15	8.0	166	4530	2000	932	723	593	254	112	43	12	3.8
16	8.4	195	2750	1630	3110	686	519	245	108	43	11	3.6
17	8.5	235	2150	1370	9760	657	452	240	104	41	9.9	3.4
18	8.2	178	1770	1230	8910	631	426	257	101	39	9.1	4.7
19	8.0	105	1580	1170	5610	604	430	250	99	37	8.5	8.7
20	8.1	123	2100	1110	3920	571	593	231	97	36	8.1	11
21	8.0	105	1540	1020	3050	542	1940	223	97	34	7.6	13
22	8.0	88	1180	927	2540	525	1610	217	97	33	15	12
23	8.6	69	983	935	2230	512	1100	210	97	32	28	11
24	8.5	57	1620	2330	2110	490	881	199	95	30	24	9.4
25	7.9	50	2340	1910	2480	527	750	191	90	29	28	8.6
26	7.3	69	1880	1510	6170	746	660	182	86	27	37	7.8
27	7.0	87	1440	3210	5960	963	592	173	81	25	31	7.1
28	6.8	79	1240	3310	4220	757	550	206	78	24	26	6.9
29	6.6	119	7610	2580	3220	635	510	215	75	22	22	7.1
30	6.4	442	5680	3110	---	670	471	189	71	21	18	7.6
31	6.5	---	3450	2850	---	642	---	171	---	21	15	---
TOTAL	243.3	2707.8	80357	74432	91450	31535	17976	8451	3421	1291	582.2	234.0
MEAN	7.85	90.3	2592	2401	3153	1017	599	273	114	41.6	18.8	7.80
MAX	8.6	442	13500	6120	9760	2990	1940	439	162	70	37	14
MIN	6.4	6.3	148	927	932	490	327	171	71	21	7.6	3.4
AC-FT	483	5370	159400	147600	181400	62550	35660	16760	6790	2560	1150	464

11482500 REDWOOD CREEK AT ORICK, CA—Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1911 - 2004, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	142	999	2150	2510	2217	1902	1199	622	247	84.2	40.1	36.6
MAX	1559	5219	8981	6041	6320	5565	4026	1732	1213	194	91.6	149
(WY)	1963	1974	1965	1956	1986	1975	1963	1912	1993	1993	1968	1986
MIN	2.91	35.3	42.1	180	190	297	251	188	77.3	35.7	9.89	4.44
(WY)	1988	1960	1977	1977	1977	1988	1988	1987	1987	1987	1992	1992

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1911 - 2004	
ANNUAL TOTAL	377177.5		312680.3			
ANNUAL MEAN	1033		854		1008	
HIGHEST ANNUAL MEAN					1726	
LOWEST ANNUAL MEAN					192	
HIGHEST DAILY MEAN	13500	Dec 13	13500	Dec 13	43200	Dec 22 1964
LOWEST DAILY MEAN	6.3	Nov 1	3.4	Sep 17	2.1	Oct 20 1987
ANNUAL SEVEN-DAY MINIMUM	6.6	Oct 27	4.2	Sep 12	2.2	Oct 17 1987
MAXIMUM PEAK FLOW			17300	Dec 13	50500	Dec 22 1964
MAXIMUM PEAK STAGE			22.21	Dec 13	28.22	Jan 1 1997
ANNUAL RUNOFF (AC-FT)	748100		620200		730100	
10 PERCENT EXCEEDS	2790		2520		2700	
50 PERCENT EXCEEDS	303		180		304	
90 PERCENT EXCEEDS	8.5		8.0		24	

11482500 REDWOOD CREEK AT ORICK, CA—Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.—Water years 1955–56, 1959 to September 1980, October 1981 to current year.

CHEMICAL DATA: Water years 1959–66, 1973–81.

WATER TEMPERATURE: Water years 1966–92, 2001.

SEDIMENT DATA: Water years 1955–56, 1970–81 (daily), 1982–92, 2001 (storm season only), 1993–2000, October 2001 to current year (periodic).

PERIOD OF DAILY RECORD.—

WATER TEMPERATURE: October 1965 to September 1970.

SUSPENDED-SEDIMENT DISCHARGE: March 1970 to September 1981 (daily), October 1981 to September 1992, October 2000 to April 2001 (storm season only).

EXTREMES FOR PERIOD OF DAILY RECORD.—

SEDIMENT CONCENTRATION: Maximum daily mean, 9,610 mg/L, Mar. 18, 1975; minimum daily mean, 0 mg/L, Nov. 10–12, 1986, Apr. 20, 29, 30, 1987, several days during 1989–90, many days during 1991 and 2001.

SEDIMENT LOAD: Maximum daily, 1,070,000 tons, Mar. 18, 1975; minimum daily, 0 ton, Nov. 10–12, 1986, Apr. 20, 29, 30, 1987, several days during 1989–90, many days during 1991 and 2001

REMARKS.—Periodic total load sampling above 5,000 ft³/s.

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Time	Instantaneous discharge, cfs (00061)	Temperature, water, deg C (00010)	Suspended sediment concentration mg/L (80154)	Suspended sediment discharge, tons/d (80155)	Suspended sediment, sieve diameter percent <.063mm (70331)
DEC 30...	1400	5100	8.5	254	3500	62
FEB 19...	1315	5480	9.5	261	3860	64

Date	Suspnd. sediment, sieve diameter percent <.125mm (70332)	Suspnd. sediment, sieve diameter percent <.25mm (70333)	Suspnd. sediment, sieve diameter percent <.5 mm (70334)	Suspnd. sediment, sieve diameter percent <1 mm (70335)	Suspnd. sediment, sieve diameter percent <2 mm (70336)	Suspnd. sediment, sieve diameter percent <4mm (69314)
DEC 30...	72	81	96	99	100	--
FEB 19...	71	78	88	93	98	100

11482500 REDWOOD CREEK AT ORICK, CA—Continued

PARTICLE-SIZE DISTRIBUTION OF BEDLOAD, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Time	Sam- pling method, code (82398)	Sampler type, code (84164)	Bag mesh size, bedload sampler mm (30333)	Tether line used in sampling (yes=1) code (04117)	Startng time, 24 hour clock, hr:min (82073)	Ending time, 24 hour clock, hr:min (82074)	Rest time on bed for bed load sample, seconds (04120)	Hori- zontal width of verti- cal, feet (04121)
DEC									
30...	1110	1000	1100	.250	0	1050	1130	10	10.0
30...	1150	1000	1100	.250	0	1135	1205	10	10.0
FEB									
19...	1025	1000	1100	.250	0	1010	1040	10	10.0
19...	1100	1000	1100	.250	0	1045	1115	15	10.0

Date	Compstd samples in x-sec bedload measmnt number (04118)	Verti- cals in com- posite sample, number (04119)	Number of sam- pling points, count (00063)	Loca- tion in X-sect. Instan- taneous dis- locking dwnstrm ft from l bank (00009)	Instan- taneous dis- charge, cfs (00061)	Temper- ature, water, deg C (00010)	Bedload sedimnt dschrge average unit cmposit t/d/ft (04122)	Bedload sediment dis- charge, tons/d (80225)
DEC								
30...	2	22	22	5.00	5490	8.5	21.7	4220
30...	2	22	22	5.00	5360	8.5	16.8	4220
FEB								
19...	2	22	22	5.00	5690	9.5	11.0	1840
19...	2	22	22	5.00	5700	9.5	5.69	1840

Date	Bedload sedi- ment, sieve diametr percent <.5 mm (80229)	Bedload sedi- ment, sieve diametr percent <1 mm (80230)	Bedload sedi- ment, sieve diametr percent <2 mm (80231)	Bedload sedi- ment, sieve diametr percent <4 mm (80232)	Bedload sedi- ment, sieve diametr percent <8 mm (80233)	Bedload sedi- ment, sieve diametr percent <16 mm (80234)	Bedload sedi- ment, sieve diametr percent <32 mm (80235)	Bedload sedi- ment, sieve diametr percent <64 mm (80236)
DEC								
30...	7	14	26	50	72	90	99	100
30...	9	22	36	51	68	86	96	100
FEB								
19...	7	18	33	56	75	93	100	--
19...	8	19	31	47	65	85	100	--

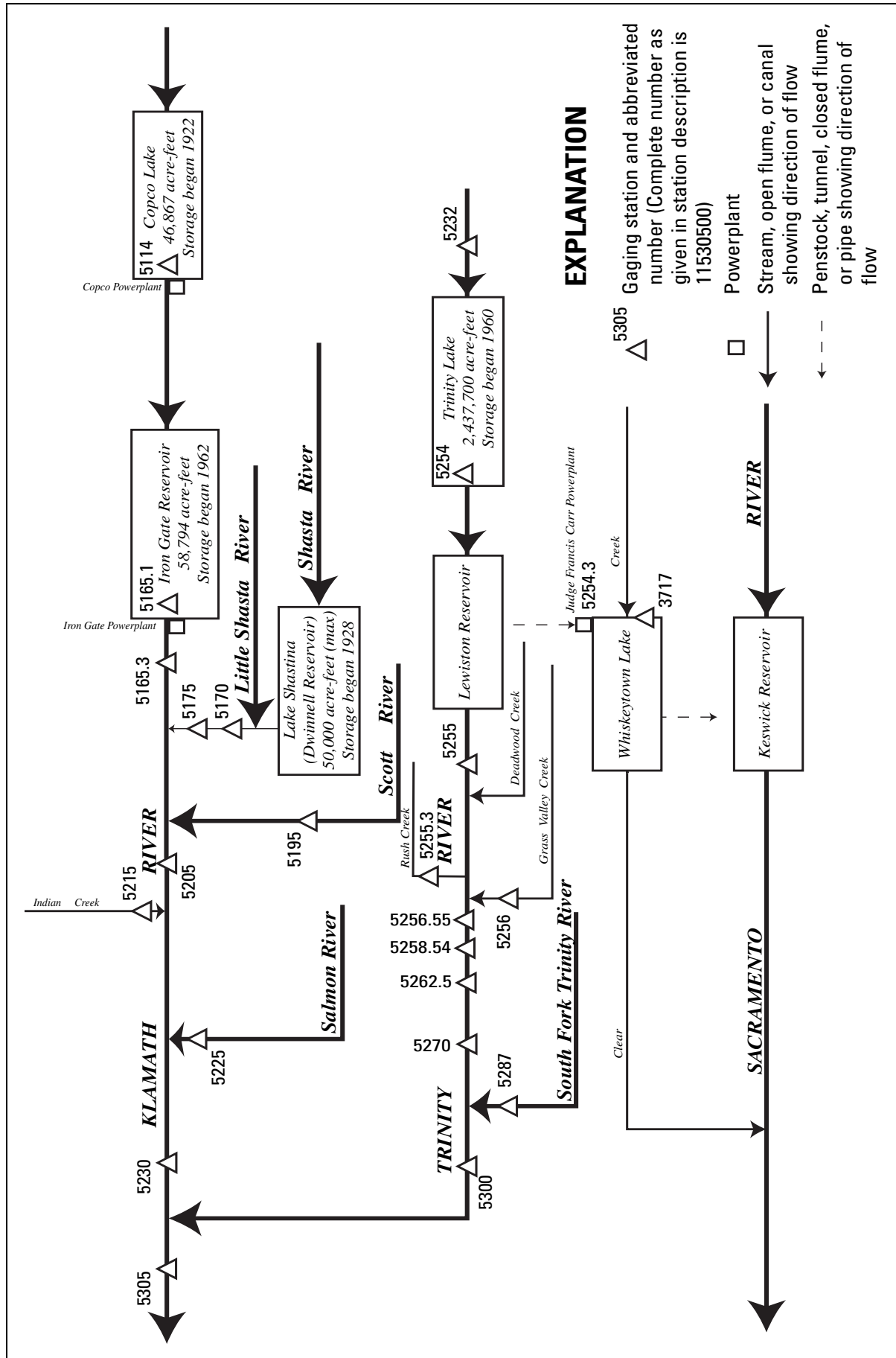


Figure 24. Diversions and storage in Klamath River and Trinity River Basins

RESERVOIRS IN KLAMATH RIVER BASIN, CA

11511400 COPCO LAKE NEAR COPCO

LOCATION.—Lat 41°58'46", long 122°20'00", in SE 1/4 SW 1/4 sec.29, T.48 N., R.4 W., [Siskiyou County](#), Hydrologic Unit 18010206, 12.7 mi northeast of Hornbrook.

DRAINAGE AREA.—4,300 mi², approximately (not including Lost River, Butte Creek, or Lower Klamath Lake Basins).

PERIOD OF RECORD.—October 1967 to current year (monthend contents only).

GAGE.—Pressure device and telemark read once daily. Datum of gage is NGVD of 1929 (levels by PacifiCorp, formerly Pacific Power and Light Co.). Monthend contents computed from capacity table provided by Pacific Power and Light Co., dated Aug. 25, 1964.

REMARKS.—Lake is formed by gravity-type dam completed in 1922. Usable capacity, 17,107 acre-ft, between elevations 2,607.5 ft, top of tainter gates, and 2,588.5 ft, invert to powerplant intake. Dead storage, 29,760 acre-ft, below elevation 2,588.5 ft. Figures given represent total contents at 0800 hours. Lake is used for power generation. See schematic diagram of [Klamath River and Trinity River Basins](#).

COOPERATION.—Records were provided by PacifiCorp, formerly Pacific Power & Light Co., in connection with Federal Energy Regulatory Commission project no. 2082. Contents not rounded to U.S. Geological Survey standards.

EXTREMES (at 0800) FOR PERIOD OF RECORD.—Maximum contents, 46,869 acre-ft, July 26, 2004, elevation, 2,607.50 ft; minimum since first filling, 30,360 acre-ft, Aug. 19, 1971, elevation, 2,589.24 ft.

EXTREMES (at 0800) FOR CURRENT YEAR.—Maximum contents, 46,869 acre-ft, July 26, elevation, 2,607.50 ft; minimum, 39,338 acre-ft, Jan. 8, elevation, 2,599.60. ft.

11516510 IRON GATE RESERVOIR NEAR HORN BROOK

LOCATION.—Lat 41°55'58", long 122°26'06", in SW 1/4 SW 1/4 sec.9, T.47 N., R.5 W., [Siskiyou County](#), Hydrologic Unit 18010206, 6.6 mi northeast of Hornbrook.

DRAINAGE AREA.—4,573 mi², approximately (not including Lost River, Butte Creek, or Lower Klamath Lake Basins).

PERIOD OF RECORD.—October 1967 to current year (monthend contents only).

GAGE.—Pressure device and telemark read once daily. Datum of gage is NGVD of 1929 (levels by PacifiCorp, formerly Pacific Power and Light Co.). Monthend contents computed from capacity table provided by Pacific Power and Light Co., dated Feb. 15, 1960.

REMARKS.—Reservoir is formed by earth and rockfill dam completed in 1962. Usable capacity, 58,387 acre-ft, between elevations 2,328.0 ft, crest of spillway, and 2,184.75 ft, invert to diversion tunnel. Dead storage, 407 acre-ft. Normal operating pool is from elevations 2,305.0 ft, capacity, 39,963 acre-ft, to 2,328.0 ft, capacity, 58,794 acre-ft. Figures given represent total contents at 0800 hours. Reservoir is used for power generation and recreation. See schematic diagram of [Klamath River and Trinity River Basins](#).

COOPERATION.—Records were provided by PacifiCorp, formerly Pacific Power and Light Co., in connection with Federal Energy Regulatory Commission project no. 2082. Contents not rounded to U.S. Geological Survey standards.

EXTREMES (at 0800) FOR PERIOD OF RECORD.—Maximum contents, 61,797 acre-ft, Jan. 1, 1997, elevation, 2,330.98 ft; minimum since first filling, 50,103 acre-ft, Dec. 9, 1968, elevation, 2,318.40 ft.

EXTREMES (at 0800) FOR CURRENT YEAR.—Maximum contents, 59,653 acre-ft, Feb. 18, elevation, 2,328.87 ft; minimum, 54,456 acre-ft, Jan. 6, elevation, 2,323.40 ft.

MONTHEND ELEVATION AND CONTENTS AT 0800 HOURS, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Elevation (ft)	Contents (acre-ft)	Change in contents (acre-ft)	Elevation (ft)	Contents (acre-ft)	Change in contents (acre-ft)
	11511400 COPCO LAKE			11516510 IRON GATE RESERVOIR		
Sept. 30	2,606.24	45,622	—	2,325.67	56,555	—
Oct. 31	2,601.62	41,211	-4,411	2,324.94	55,872	-683
Nov. 30	2,604.42	43,859	+2,648	2,324.70	55,651	-221
Dec. 31	2,603.70	43,170	-689	2,326.04	56,903	+1,252
CAL YR 2003	—	—	+95	—	—	-2,097
Jan. 31	2,602.90	42,414	-756	2,324.50	55,464	-1,439
Feb. 29	2,604.10	43,554	+1,140	2,328.11	58,899	+3,435
Mar. 31	2,603.90	43,361	-193	2,328.23	59,020	+121
Apr. 30	2,605.60	44,998	+1,637	2,324.52	55,483	-3,537
May 31	2,606.17	45,554	+556	2,326.12	56,981	+1,498
June 30	2,606.90	46,272	+718	2,326.70	57,533	+552
July 31	2,606.60	45,976	-296	2,326.78	57,610	+77
Aug. 31	2,606.70	46,074	+98	2,326.20	57,056	-554
Sept. 30	2,606.40	45,779	-295	2,323.90	54,912	-2,144
WTR YR 2004	—	—	+157	—	—	-1,643

11516530 KLAMATH RIVER BELOW IRON GATE DAM, CA

LOCATION.—Lat 41°55'41", long 122°26'35", in SE 1/4 NE 1/4 sec.17, T.47 N., R.5 W., Siskiyou County, Hydrologic Unit 18010206, on left bank, 0.1 mi downstream from Bogus Creek, 0.6 mi downstream from Iron Gate Dam, and 5.9 mi northeast of Hornbrook.

DRAINAGE AREA.—4,630 mi², approximately (not including Lost River, Butte Creek, or Lower Klamath Lake Basins).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.—October 1960 to current year.

GAGE.—Water-stage recorder. Datum of gage is 2,162.44 ft above NGVD of 1929 (levels by PacifiCorp, formerly Pacific Power & Light Co.).

REMARKS.—Records excellent. Flow regulated by Upper Klamath Lake, capacity, 523,700 acre-ft; Iron Gate Reservoir (station 11516510), other smaller reservoirs and diversions upstream from station. See schematic diagram of [Klamath River and Trinity River Basins](#).

EXTREMES FOR PERIOD OF RECORD.—Maximum discharge, 29,400 ft³/s, Dec. 22, 1964, gage height, 13.63 ft, from rating curve extended above 15,000 ft³/s on basis of slope-area measurement of peak flow; minimum daily, 389 ft³/s, Aug. 25–28, 1992.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1370	1370	1650	1350	1310	2340	2060	1610	1160	740	618	908
2	1370	1370	1650	1440	1310	2270	2030	1600	1160	713	615	908
3	1370	1370	1630	1720	1310	2190	2010	1600	1160	716	616	908
4	1370	1370	1630	1690	1310	2130	2010	1600	1150	711	615	909
5	1370	1350	1640	1570	1310	2140	2000	1610	1150	710	617	913
6	1360	1360	1650	1470	1310	2080	2010	1570	1150	710	616	913
7	1360	1360	1650	1400	1310	2050	2020	1550	1030	707	615	913
8	1360	1350	1640	1320	1310	2080	1990	1420	1010	707	615	913
9	1370	1360	1630	1350	1310	2120	1820	1300	1010	710	615	913
10	1370	1350	1630	1320	1310	2070	1780	1260	1010	712	615	912
11	1370	1360	1630	1310	1310	2070	1780	1260	1010	717	615	911
12	1370	1350	1640	1300	1320	2060	1780	1260	1010	719	615	913
13	1360	1360	1640	1310	1320	2060	1790	1260	1010	714	617	910
14	1360	1360	1660	1310	1320	2030	1790	1260	1010	712	620	913
15	1360	1360	1640	1310	1310	2040	1790	1260	1020	711	623	913
16	1360	1350	1640	1360	1330	2150	1770	1180	915	660	678	917
17	1370	1360	1640	1480	2220	2230	1760	1160	820	621	710	921
18	1360	1360	1640	1520	4110	2230	1760	1180	810	624	710	919
19	1360	1360	1630	1380	3540	2230	1760	1170	808	629	710	919
20	1360	1360	1530	1320	3170	2220	1770	1170	807	633	710	915
21	1370	1360	1380	1310	3020	2240	1720	1160	802	622	712	913
22	1370	1360	1320	1300	2850	2230	1710	1150	805	614	717	913
23	1360	1360	1310	1310	2630	2230	1710	1150	808	616	713	913
24	1370	1360	1310	1310	2370	2220	1710	1150	802	615	896	913
25	1370	1360	1310	1310	2320	2220	1710	1150	807	619	1080	913
26	1370	1360	1310	1310	2260	2210	1670	1150	805	627	1320	912
27	1370	1360	1310	1310	2050	2220	1670	1160	805	623	1320	912
28	1370	1360	1320	1310	2050	2210	1670	1160	803	629	1210	911
29	1370	1360	1320	1310	2070	2220	1660	1150	805	625	1040	909
30	1370	1480	1320	1310	---	2220	1670	1150	815	627	929	908
31	1370	---	1320	1310	---	2220	---	1150	---	623	911	---
TOTAL	42360	40910	47220	42630	55670	67230	54380	39960	28267	20716	23613	27378
MEAN	1366	1364	1523	1375	1920	2169	1813	1289	942	668	762	913
MAX	1370	1480	1660	1720	4110	2340	2060	1610	1160	740	1320	921
MIN	1360	1350	1310	1300	1310	2030	1660	1150	802	614	615	908
AC-FT	84020	81140	93660	84560	110400	133400	107900	79260	56070	41090	46840	54300

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1961 - 2004, BY WATER YEAR (WY)

MEAN	1605	2026	2598	2888	3040	3540	2958	2127	1153	795	971	1272
MAX	3353	5254	6735	9553	9150	10780	6922	5559	3289	1429	1208	2052
(WY)	1985	1985	1984	1997	1965	1972	1971	1998	1998	1982	1965	1965
MIN	852	873	889	888	525	511	572	512	506	428	398	538
(WY)	1982	1992	1992	1992	1992	1992	1994	1992	1992	1992	1992	1992

SUMMARY STATISTICS

FOR 2003 CALENDAR YEAR

FOR 2004 WATER YEAR

WATER YEARS 1961 - 2004

ANNUAL TOTAL	542851	490334	
ANNUAL MEAN	1487	1340	2076
HIGHEST ANNUAL MEAN			3657
LOWEST ANNUAL MEAN			641
HIGHEST DAILY MEAN	4180	Mar 28	4110
LOWEST DAILY MEAN	723	Jul 16	614
ANNUAL SEVEN-DAY MINIMUM	730	Jul 16	615
MAXIMUM PEAK FLOW			4380
MAXIMUM PEAK STAGE			6.12
ANNUAL RUNOFF (AC-FT)	1077000	972600	1504000
10 PERCENT EXCEEDS	2650	2070	4010
50 PERCENT EXCEEDS	1360	1320	1390
90 PERCENT EXCEEDS	873	710	734

11517000 SHASTA RIVER NEAR MONTAGUE, CA

LOCATION.—Lat 41°42'33", long 122°32'13", in SE 1/4 NE 1/4 sec.33, T.45 N., R.6 W., Siskiyou County, Hydrologic Unit 18010207, on right bank, 1.0 mi below Little Shasta River, 17 mi downstream from Lake Shastina, and 2.2 mi southeast of Montague.

DRAINAGE AREA.—673 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.—August 1911 to September 1913, September 1916 to June 1922, April 1923 to September 1933, October 2001 to current year.

GAGE.—Water-stage recorder and concrete control. Elevation of gage is 2,458 ft above NGVD of 1929, from topographic map.

REMARKS.—Records fair. Low flow completely regulated by Lake Shastina (formerly Lake Dwinnell) beginning in 1928; storage limited to 50,000 acre-ft. Many diversions upstream from station for irrigation. See schematic diagram of [Klamath River and Trinity River Basins](#).

EXTREMES FOR PERIOD OF RECORD.—Maximum discharge, 5,700 ft³/s, Feb. 11, 1925, gage height, 14.9 ft, site and datum then in use; minimum daily, 0.10 ft³/s, Apr. 7, 8, 1918.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	127	135	185	198	186	281	183	61	53	52	22	52
2	158	150	180	217	184	362	178	59	58	62	27	43
3	153	158	177	208	187	332	160	60	56	58	52	39
4	139	e166	172	192	197	283	139	60	54	58	55	42
5	140	e167	172	187	188	266	129	60	59	63	51	46
6	140	e169	181	189	187	264	115	55	55	60	47	50
7	140	e172	186	194	189	256	101	57	49	38	48	51
8	140	e180	184	190	188	256	80	63	51	39	45	52
9	140	e185	180	191	187	261	68	68	52	38	44	49
10	136	e171	178	195	189	257	59	88	57	37	38	42
11	140	e169	176	195	190	252	51	104	62	30	39	51
12	145	e166	175	190	188	247	49	100	70	30	29	62
13	148	e164	175	187	186	234	56	113	81	29	31	64
14	146	e161	196	185	182	229	54	119	68	29	41	68
15	e145	e163	193	187	181	226	59	109	50	31	42	61
16	e146	e163	184	186	184	223	77	110	45	34	40	59
17	e146	e162	179	183	447	217	81	105	43	35	42	68
18	e142	e161	177	181	711	214	80	126	49	31	45	72
19	e141	162	181	182	618	211	98	162	45	35	48	76
20	e140	164	179	184	329	210	128	158	42	40	54	82
21	e138	167	178	183	267	205	127	144	38	49	61	86
22	e139	166	176	181	253	204	135	137	38	46	66	87
23	e141	168	175	181	240	201	148	133	36	37	70	92
24	e142	182	175	194	231	198	103	110	43	32	73	98
25	e141	180	186	195	237	193	93	72	42	30	75	86
26	e141	172	183	188	385	191	88	51	40	32	72	88
27	e140	170	179	202	433	188	67	47	42	26	67	89
28	140	171	178	192	284	186	65	60	43	24	66	86
29	136	172	181	189	266	182	67	51	45	28	67	89
30	130	185	190	192	---	185	76	51	51	27	73	96
31	133	---	189	191	---	185	---	56	---	31	68	---
TOTAL	4373	5021	5600	5909	7694	7199	2914	2749	1517	1191	1598	2026
MEAN	141	167	181	191	265	232	97.1	88.7	50.6	38.4	51.5	67.5
MAX	158	185	196	217	711	362	183	162	81	63	75	98
MIN	127	135	172	181	181	182	49	47	36	24	22	39
AC-FT	8670	9960	11110	11720	15260	14280	5780	5450	3010	2360	3170	4020

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1912 - 2004, BY WATER YEAR (WY)

MEAN	131	193	218	218	262	216	146	115	71.3	35.0	34.9	71.4
MAX	151	380	536	453	623	491	348	308	218	148	135	147
(WY)	1928	1927	1927	1921	1921	1921	1927	1913	1913	1913	1913	1912
MIN	96.8	96.8	130	136	139	129	14.9	12.2	9.36	8.77	10.7	32.6
(WY)	1930	1930	1933	1933	1933	1924	1924	1924	1924	1924	1924	2002

SUMMARY STATISTICS

	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1912 - 2004	
ANNUAL TOTAL	55973		47791			
ANNUAL MEAN	153		131		142	
HIGHEST ANNUAL MEAN					254	
LOWEST ANNUAL MEAN					86.7	
HIGHEST DAILY MEAN	429	Jan 1	711	Feb 18	2780	Nov 30 1926
LOWEST DAILY MEAN	45	Jul 8	22	Aug 1	0.10	Apr 7 1918
ANNUAL SEVEN-DAY MINIMUM	53	Sep 5	26	Jul 27	3.1	Jun 18 1924
MAXIMUM PEAK FLOW			799		5700	
MAXIMUM PEAK STAGE			4.45		14.90	
ANNUAL RUNOFF (AC-FT)	111000		94790		102900	
10 PERCENT EXCEEDS	234		204		262	
50 PERCENT EXCEEDS	164		139		135	
90 PERCENT EXCEEDS	63		42		17	

e Estimated.

11517000 SHASTA RIVER NEAR MONTAGUE, CA—Continued

TEMPERATURE, WATER, DEGREES CELSIUS, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	17.0	14.0	9.5	7.0	9.0	8.0	6.5	5.5	8.0	6.5	9.0	6.0
2	17.5	14.0	9.0	7.0	8.5	7.0	5.5	4.0	7.0	6.0	9.0	6.0
3	17.0	14.0	9.5	7.5	10.5	8.0	5.5	4.0	8.0	5.5	8.5	7.5
4	16.5	14.0	9.0	7.5	10.0	8.5	7.0	5.0	9.5	7.0	9.5	7.0
5	17.0	14.0	9.5	7.5	9.5	8.5	7.0	5.5	9.0	7.5	9.0	8.0
6	17.0	14.0	9.0	8.0	9.5	8.5	7.0	5.5	9.0	7.0	10.5	8.0
7	17.0	14.0	10.0	8.0	9.0	8.0	7.0	6.0	8.5	7.0	12.5	9.5
8	16.5	13.5	10.5	9.0	8.0	6.5	7.5	6.5	8.5	6.5	13.0	11.0
9	15.5	13.0	9.5	8.0	7.5	6.5	8.5	7.0	9.0	6.0	14.0	11.5
10	14.5	11.5	10.0	8.0	7.0	6.0	7.5	6.5	9.0	6.5	13.5	11.5
11	13.0	10.5	10.5	8.0	8.5	6.5	8.0	6.5	9.0	6.5	13.0	11.0
12	13.0	9.5	10.5	8.0	8.5	7.5	8.0	6.5	9.5	6.5	13.5	11.0
13	13.0	9.5	9.5	7.0	8.0	7.0	9.0	7.0	8.0	6.5	14.0	11.5
14	13.5	10.0	9.0	7.0	8.0	7.0	9.0	7.5	8.0	6.0	14.5	12.0
15	12.0	10.0	9.5	8.0	8.0	7.0	9.5	8.5	9.0	7.0	14.5	12.0
16	13.0	9.5	9.5	8.5	8.0	6.5	10.0	8.5	8.5	7.0	14.5	11.5
17	14.5	10.5	10.0	8.0	8.0	6.0	8.5	7.5	7.5	6.0	14.5	11.5
18	14.0	11.0	10.0	8.0	8.0	6.0	9.0	7.0	11.0	5.0	14.5	12.0
19	14.0	12.0	10.5	7.5	8.0	6.0	9.0	7.5	9.5	4.5	13.5	11.0
20	14.5	11.5	10.5	8.5	8.0	7.0	9.5	7.5	9.0	7.5	14.0	11.0
21	14.5	11.5	9.0	7.5	8.0	7.0	8.5	6.5	9.5	8.5	15.5	11.5
22	14.5	12.0	8.5	6.5	8.5	7.5	8.0	5.5	9.0	8.0	16.0	13.0
23	14.5	12.0	7.5	5.0	8.5	7.5	7.0	5.5	10.5	8.0	16.0	13.0
24	13.0	10.5	7.5	5.0	8.5	7.0	8.5	6.0	10.5	8.0	14.0	12.0
25	12.5	9.5	7.5	5.5	8.0	6.5	8.0	6.0	8.5	7.5	12.0	9.0
26	13.0	9.5	8.5	6.5	7.0	5.5	7.0	6.0	8.0	7.0	10.0	8.0
27	13.5	10.0	7.0	5.5	7.0	5.0	6.5	5.5	9.0	6.5	13.0	9.0
28	14.0	10.5	8.0	6.0	6.5	5.0	8.5	6.0	10.0	8.0	14.5	10.5
29	13.5	11.0	8.0	7.5	5.0	3.5	10.0	7.5	10.5	9.0	15.0	12.0
30	12.0	9.5	9.0	7.5	6.0	3.5	10.0	7.5	---	---	13.0	10.0
31	10.5	8.0	---	---	7.0	6.0	8.0	7.0	---	---	12.5	9.0
MONTH	17.5	8.0	10.5	5.0	10.5	3.5	10.0	4.0	11.0	4.5	16.0	6.0
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	13.0	10.0	20.5	14.5	22.0	16.5	---	---	---	---	23.0	18.0
2	14.0	10.5	21.0	15.5	22.5	17.0	---	---	---	---	21.5	15.0
3	16.5	11.5	22.0	16.5	23.0	19.0	---	---	---	---	20.5	13.5
4	17.0	13.0	21.0	16.5	23.5	19.0	---	---	---	---	21.0	14.5
5	17.0	13.0	20.5	15.5	22.5	19.0	---	---	---	---	21.0	15.5
6	17.5	13.0	19.0	15.0	21.0	17.0	---	---	---	---	21.0	16.0
7	17.5	12.5	16.0	13.5	19.5	16.0	---	---	---	---	21.0	16.5
8	18.0	11.5	17.0	13.0	18.5	14.5	---	---	---	---	21.5	16.0
9	18.5	12.5	16.0	13.5	17.5	14.5	---	---	---	---	21.5	16.0
10	18.5	13.0	15.5	12.5	20.5	15.0	---	---	---	---	23.5	15.5
11	18.0	13.0	16.0	12.0	21.0	15.5	---	---	---	---	20.5	16.5
12	18.0	13.5	18.0	11.5	20.5	15.5	---	---	---	---	20.0	17.5
13	16.0	12.5	19.5	13.0	22.5	16.5	---	---	---	---	19.0	16.0
14	14.5	12.0	21.0	14.0	22.5	17.5	---	---	---	---	17.0	14.5
15	13.0	10.5	20.5	15.5	---	---	---	---	---	---	18.0	14.5
16	13.5	10.0	20.5	14.5	---	---	---	---	---	---	17.5	14.5
17	14.5	10.5	18.0	14.5	---	---	---	---	---	---	16.5	14.5
18	13.0	11.0	15.5	13.5	---	---	---	---	24.5	19.0	15.5	12.5
19	11.5	9.0	18.5	13.0	---	---	---	---	24.5	19.5	15.0	13.0
20	12.5	9.5	20.0	15.0	---	---	---	---	24.0	20.0	15.0	12.0
21	13.5	10.0	20.5	15.0	---	---	---	---	23.0	20.0	15.0	11.5
22	16.0	10.0	20.5	15.5	---	---	---	---	21.5	18.5	16.5	12.0
23	17.5	11.5	20.0	14.5	---	---	---	---	18.5	16.5	17.5	13.0
24	18.5	12.0	20.5	14.5	---	---	---	---	19.0	16.0	17.5	13.5
25	20.0	13.0	23.5	15.5	---	---	---	---	19.0	16.0	17.5	13.5
26	22.0	14.0	23.0	15.5	---	---	---	---	19.0	16.0	17.0	13.5
27	21.5	15.5	18.0	16.0	---	---	---	---	20.0	15.5	17.5	13.0
28	19.5	14.0	18.5	14.5	---	---	---	---	20.5	16.5	17.0	13.0
29	19.0	13.0	19.5	12.5	---	---	---	---	21.5	17.5	17.0	13.5
30	20.0	13.5	20.5	14.5	---	---	---	---	21.5	18.0	17.0	13.0
31	---	---	21.5	16.0	---	---	---	---	21.0	18.0	---	---
MONTH	22.0	9.0	23.5	11.5	---	---	---	---	---	---	23.5	11.5

KLAMATH RIVER BASIN

11517000 SHASTA RIVER NEAR MONTAGUE, CA—Continued

CROSS-SECTIONAL DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Time	Depth at sample locati- on, feet (81903)	Temper- ature, water, deg C (00010)	Loca- tion in X-sect. looking dwnstrm ft from l bank (00009)
MAY				
05...*	1015	1.44	16.0	12.0
05...*	1020	1.50	16.0	24.0
05...*	1025	1.86	16.0	28.0
05...*	1030	1.74	16.0	34.0
05...*	1035	1.42	16.0	42.0
SEP				
14...*	0950	1.28	14.1	5.00
14...*	0955	1.08	14.1	15.0
14...*	1000	1.30	14.1	25.0
14...*	1005	1.58	14.1	35.0
14...*	1010	1.44	14.1	45.0

* Instantaneous discharge at the time of the cross-sectional measurements: May 5, 62 ft³/s; Sep. 14, 70 ft³/s.

11517500 SHASTA RIVER NEAR YREKA, CA

LOCATION.—Lat 41°49'23", long 122°35'40", in SE 1/4 NE 1/4 sec.24, T.46 N., R.7 W., [Siskiyou County](#), Hydrologic Unit 18010207, on right bank, 24 mi downstream from Lake Shastina, 0.5 mi upstream from mouth, and 7 mi north of Yreka.

DRAINAGE AREA.—793 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.—October 1933 to December 1941, December 1944 to current year.

REVISED RECORDS.—WSP 1929: Drainage area.

GAGE.—Water-stage recorder and concrete control. Elevation of gage is 2,000 ft above NGVD of 1929, from topographic map. Prior to Nov. 2, 1933, nonrecording gage at same site and datum.

REMARKS.—Records fair. Low flow completely regulated by Lake Shastina (formerly Lake Dwinnell) beginning in 1928; storage limited to 50,000 acre-ft. Small powerplant, 5.6 miles upstream, has operated intermittently since summer of 1987. Many diversions upstream from station for irrigation. See schematic diagram of [Klamath River and Trinity River Basins](#).

EXTREMES FOR PERIOD OF RECORD.—Maximum discharge, 21,500 ft³/s, Dec. 22, 1964, gage height, 12.92 ft, in gage well, 13.85 ft, from floodmarks, from rating curve extended above 4,100 ft³/s, on basis of slope-area measurement of peak flow; minimum daily, 1.5 ft³/s, Aug. 24, 1981, July 17, 1985.

EXTREMES FOR CURRENT YEAR.—Peak discharges greater than base discharge of 630 ft³/s, or maximum:

Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Feb. 17	2230	1,130	5.69

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	118	148	200	240	220	391	222	84	71	68	21	60
2	154	155	194	273	214	511	201	74	80	72	15	48
3	164	167	187	255	214	448	175	75	76	63	30	42
4	153	178	181	225	224	404	166	73	66	69	45	39
5	147	178	177	214	221	362	159	75	61	70	46	41
6	147	177	191	212	215	347	154	72	71	73	39	49
7	147	177	201	218	219	337	142	71	71	49	36	52
8	147	178	199	232	218	326	115	78	74	39	38	48
9	147	191	194	234	214	331	112	86	71	40	38	47
10	146	200	189	240	216	330	98	112	73	37	30	45
11	145	191	185	236	215	319	79	139	76	34	28	42
12	150	185	181	226	214	312	78	130	79	26	26	48
13	154	181	185	222	213	302	87	129	89	27	18	57
14	159	179	221	220	207	292	84	137	87	26	23	61
15	154	176	220	226	204	284	95	132	69	25	35	67
16	156	176	207	228	208	281	121	133	60	25	37	66
17	155	177	195	225	671	268	154	119	56	26	36	69
18	153	177	190	220	944	260	140	153	50	26	36	73
19	151	176	192	218	776	261	142	200	55	25	38	77
20	149	174	195	216	510	258	164	184	55	31	42	83
21	147	174	187	215	389	253	163	169	50	40	50	90
22	149	174	185	213	351	251	152	152	46	44	54	94
23	150	174	183	210	325	244	167	145	45	44	60	96
24	152	179	186	217	310	238	144	129	44	27	65	98
25	153	193	192	228	312	235	116	90	48	30	67	96
26	153	182	197	221	404	226	124	66	47	30	68	94
27	153	174	187	227	512	221	96	67	47	27	66	97
28	153	175	184	226	398	220	90	74	47	22	64	97
29	153	177	191	219	346	218	87	76	50	22	64	95
30	148	196	199	225	---	219	87	73	56	19	66	100
31	145	---	207	226	---	229	---	74	---	16	67	---
TOTAL	4652	5339	5982	7007	9684	9178	3914	3371	1870	1172	1348	2071
MEAN	150	178	193	226	334	296	130	109	62.3	37.8	43.5	69.0
MAX	164	200	221	273	944	511	222	200	89	73	68	100
MIN	118	148	177	210	204	218	78	66	44	16	15	39
AC-FT	9230	10590	11870	13900	19210	18200	7760	6690	3710	2320	2670	4110

KLAMATH RIVER BASIN

11517500 SHASTA RIVER NEAR YREKA, CA—Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1934 - 2004, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	151	195	277	337	340	313	202	140	102	45.0	39.0	74.0
MAX	351	361	1223	1234	1002	946	753	678	564	147	111	182
(WY)	1963	1985	1965	1997	1958	1983	1974	1998	1998	1995	1941	1978
MIN	90.7	117	120	110	133	97.7	31.8	24.5	17.9	10.1	8.35	26.7
(WY)	1989	1937	1937	1937	1934	1977	1992	1992	1955	1960	1939	1981

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1934 - 2004	
ANNUAL TOTAL	67485		55588			
ANNUAL MEAN	185		152		184	
HIGHEST ANNUAL MEAN					364	
LOWEST ANNUAL MEAN					77.9	
HIGHEST DAILY MEAN	683	Jan 1	944	Feb 18	10400	Dec 23 1964
LOWEST DAILY MEAN	41	Jul 14	15	Aug 2	1.5	Aug 24 1981
ANNUAL SEVEN-DAY MINIMUM	49	Jul 13	20	Jul 27	5.5	Aug 9 1939
MAXIMUM PEAK FLOW			1130	Feb 17	21500	Dec 22 1964
MAXIMUM PEAK STAGE			5.69	Feb 17	12.92	Dec 22 1964
INSTANTANEOUS LOW FLOW					1.5	Aug 24 1981
ANNUAL RUNOFF (AC-FT)	133900		110300		133400	
10 PERCENT EXCEEDS	320		252		348	
50 PERCENT EXCEEDS	177		150		152	
90 PERCENT EXCEEDS	62		39		26	

11519500 SCOTT RIVER NEAR FORT JONES, CA

LOCATION.—Lat 41°38'27", long 123°00'50", in NE 1/4 NE 1/4 sec.29, T.44 N., R.10 W., [Siskiyou County](#), Hydrologic Unit 18010208, on right bank, 1.8 mi upstream from Snow Creek, and 9.0 mi west of Fort Jones.

DRAINAGE AREA.—653 mi².

PERIOD OF RECORD.—October 1941 to current year. Monthly discharge only October to December 1941, published in WSP 1315-B.

CHEMICAL DATA: Water years 1959–79.

SEDIMENT DATA: Water years 1955–56.

REVISED RECORDS.—WSP 1445: 1942–43(M), 1946(M), 1948. WSP 1715: 1951–52(M). WSP 1929: Drainage area.

GAGE.—Water-stage recorder and crest-stage gage. Datum of gage is 2,623.80 ft above NGVD of 1929 (levels by U.S. Army Corps of Engineers). Prior to Oct. 1, 1966, water-stage recorder 400 ft downstream at datum 2.00 ft higher.

REMARKS.—Records good. Diversions for irrigation of about 30,000 acres upstream from station. See schematic diagram of [Klamath River and Trinity River Basins](#).

EXTREMES FOR PERIOD OF RECORD.—Maximum discharge, 54,600 ft³/s, Dec. 22, 1964, gage height, 25.34 ft, from floodmarks, from rating curve extended above 15,000 ft³/s, on basis of slope-area measurement at 21.40 ft, site and datum then in use; minimum daily, 3.4 ft³/s, Sept. 20–22, 2001.

EXTREMES FOR CURRENT YEAR.—Peak discharges greater than base discharge of 2,700 ft³/s, or maximum:

Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Feb. 18	0830	7,500	13.50

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	53	89	169	342	545	1050	1140	1100	684	184	24	8.6
2	53	89	172	387	538	1030	1050	1230	701	155	25	8.6
3	54	89	170	355	519	949	979	1360	731	142	27	11
4	53	89	170	329	473	895	992	1470	764	121	23	11
5	52	91	184	308	454	856	1110	1400	762	111	20	12
6	55	92	445	296	445	829	1220	1260	719	98	19	12
7	56	95	650	298	443	807	1270	1210	649	87	17	11
8	58	103	425	355	423	846	1220	1180	599	82	17	11
9	57	122	318	641	406	961	1210	1060	527	79	19	9.7
10	58	154	271	884	392	1130	1240	1040	468	78	17	9.3
11	58	143	243	738	382	1170	1230	987	431	72	16	11
12	61	132	233	630	375	1160	1270	884	413	73	13	12
13	62	126	575	648	372	1170	1330	833	398	73	10	12
14	64	123	982	707	366	1210	1230	833	388	71	9.8	12
15	67	121	704	822	363	1280	1120	860	380	71	10	12
16	66	122	500	828	462	1320	1020	893	363	64	11	13
17	69	116	388	756	2410	1320	935	893	360	61	10	13
18	71	114	325	680	5850	1370	869	921	324	59	8.3	14
19	74	114	283	628	2860	1470	818	880	312	59	8.2	15
20	73	111	308	591	1950	1330	811	869	297	60	7.8	16
21	73	114	311	552	1520	1300	795	869	288	55	7.2	17
22	71	113	282	510	1270	1480	751	869	268	51	7.5	18
23	70	110	268	482	1110	1640	717	842	251	50	7.8	17
24	70	108	561	529	1010	1570	706	778	234	49	9.1	17
25	71	109	665	533	1110	1450	742	722	207	44	9.5	17
26	80	101	470	485	1680	1340	869	733	187	47	9.7	18
27	82	97	375	483	1420	1190	1150	839	169	43	8.9	19
28	87	99	333	505	1170	1090	1390	939	160	39	9.4	20
29	99	106	349	476	1050	1050	1220	851	157	35	9.7	21
30	88	138	330	555	---	1210	1090	740	175	32	11	23
31	87	---	302	585	---	1270	---	706	---	29	9.5	---
TOTAL	2092	3330	11761	16918	31368	36743	31494	30051	12366	2274	411.4	421.2
MEAN	67.5	111	379	546	1082	1185	1050	969	412	73.4	13.3	14.0
MAX	99	154	982	884	5850	1640	1390	1470	764	184	27	23
MIN	52	89	169	296	363	807	706	706	157	29	7.2	8.6
AC-FT	4150	6610	23330	33560	62220	72880	62470	59610	24530	4510	816	835

11519500 SCOTT RIVER NEAR FORT JONES, CA—Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1942 - 2004, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	105	324	794	1070	1148	1048	1029	1139	712	185	62.3	52.5
MAX	941	1628	5003	4417	4793	2825	2217	2426	1801	769	269	228
(WY)	1963	1974	1965	1974	1958	1972	1952	1958	1975	1983	1983	1983
MIN	4.14	10.7	52.7	80.9	99.0	83.3	55.1	121	49.6	7.97	5.52	4.43
(WY)	2002	1995	1995	1977	1977	1977	1977	1977	2001	2001	2001	2001

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1942 - 2004	
ANNUAL TOTAL	272693		179229.6			
ANNUAL MEAN	747		490		636	
HIGHEST ANNUAL MEAN					1496	
LOWEST ANNUAL MEAN					74.9	
HIGHEST DAILY MEAN	4150	Jan 14	5850	Feb 18	39500	Dec 23 1964
LOWEST DAILY MEAN	39	Aug 28	7.2	Aug 21	3.4	Sep 20 2001
ANNUAL SEVEN-DAY MINIMUM	41	Aug 27	8.0	Aug 18	3.6	Sep 18 2001
MAXIMUM PEAK FLOW			7500	Feb 18	54600	Dec 22 1964
MAXIMUM PEAK STAGE			13.50	Feb 18	25.34	Dec 22 1964
ANNUAL RUNOFF (AC-FT)	540900		355500		461100	
10 PERCENT EXCEEDS	1790		1210		1540	
50 PERCENT EXCEEDS	470		321		303	
90 PERCENT EXCEEDS	52		13		44	

11520500 KLAMATH RIVER NEAR SEIAD VALLEY, CA

LOCATION.—Lat 41°51'14", long 123°13'52", in SW 1/4 SW 1/4 sec.3, T.46 N., R.12 W., Siskiyou County, Hydrologic Unit 18010206, Klamath National Forest, on left bank, 0.4 mi upstream from Bittenbender Creek, 1.4 mi downstream from Grider Creek, 2.2 mi west of Seiad Valley, and 55 mi downstream from Iron Gate Dam.

DRAINAGE AREA.—6,940 mi², approximately (not including Lost River, Butte Creek, or Lower Klamath Lake Basins).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.—October 1912 to September 1925, July 1951 to current year. Monthly discharges only for some periods, published in WSP 1315-B.

GAGE.—Water-stage recorder and crest-stage gage. Elevation of gage is 1,320 ft above NGVD of 1929, from river-profile map. November 1912 to June 1925, nonrecording gage at site 3.5 mi upstream at different datum.

REMARKS.—Records excellent. Low flow regulated considerably by reservoirs and powerplants upstream from station. Large diversions upstream from station for irrigation. See schematic diagram of [Klamath River and Trinity River Basins](#).

EXTREMES FOR PERIOD OF RECORD.—Maximum discharge, 165,000 ft³/s, Dec. 23, 1964, gage height, 33.75 ft, from floodmarks, from rating curve extended above 49,000 ft³/s, on basis of slope-area measurements at gage heights 20.1 and 29.2 ft; minimum daily, 320 ft³/s, Nov. 25, 1917.

EXTREMES OUTSIDE PERIOD OF RECORD.—Flood of 1927 reached a peak stage of 22 ft, from information furnished by local residents.

EXTREMES FOR CURRENT YEAR.—Peak discharges greater than base discharge of 10,000 ft³/s, or maximum:

Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Feb. 18	1300	17,600	11.66

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1630	1660	2110	2430	e2950	5110	4660	3980	2590	1360	724	1000
2	1640	1680	2150	2620	e2800	5620	4360	4100	2610	1210	712	983
3	1620	1710	2130	2620	e2700	5110	4240	4320	2650	1180	732	978
4	1610	1720	2130	2650	e2650	4800	4230	4490	2650	1150	742	981
5	1600	1720	2240	2490	2620	4620	4380	4420	2620	1110	733	985
6	1600	1710	2760	2350	2580	4520	4530	4190	2570	1080	732	993
7	1600	1710	2880	2300	2580	4390	4610	4040	2440	1050	730	996
8	1590	1730	2570	2450	2520	4520	4570	3950	2270	1000	723	988
9	1600	1770	2370	2900	2470	4910	4450	3610	2180	988	715	989
10	1610	1780	2290	3360	2430	5230	4350	3440	2090	976	708	981
11	1610	1780	2250	3010	2400	5190	4320	3370	2040	971	697	977
12	1620	1760	2300	2800	2380	5140	4380	3190	2010	958	697	986
13	1630	1730	3160	2810	2370	5130	4460	3080	1980	938	687	1000
14	1630	1730	3980	2970	2360	5140	4350	3080	1970	932	678	1010
15	1620	1740	3230	3330	2340	5200	4190	3110	1930	914	693	1020
16	1630	1740	2750	3390	2680	5250	4000	3130	1890	912	698	1020
17	1650	1740	2550	3270	7900	5400	3890	3020	1750	845	756	1030
18	1650	1730	2440	3220	16400	5440	3740	3130	1650	814	776	1050
19	1630	1730	2400	3010	11200	5560	3660	3140	1600	821	771	1060
20	1640	1750	2430	2840	8320	5330	3730	3070	1570	829	768	1080
21	1640	1740	2270	2720	6980	5240	3780	3070	1540	822	773	1080
22	1640	1740	2120	2610	6160	5480	3610	3030	1510	807	789	1080
23	1640	1730	2040	e2450	5600	5710	3550	2970	1480	792	830	1070
24	1640	1730	2360	e2350	5150	5560	3520	2860	1440	777	854	1080
25	1650	1750	2720	e2500	5090	5380	3510	2740	1400	779	1020	1070
26	1650	1750	2390	e2450	6400	5180	3690	2700	1370	785	1320	1060
27	1650	1730	2230	e2500	6050	4910	4070	2850	1340	771	1450	1060
28	1650	1730	2160	e2700	5380	4720	4420	3050	1310	749	1420	1060
29	1650	1790	2300	e2800	4990	4650	4190	2920	1310	745	1270	1050
30	1650	1900	2210	e2800	---	4850	3960	2710	1360	737	1110	1050
31	1650	---	2190	e3050	---	4910	---	2630	---	731	1020	---
TOTAL	50520	52210	76110	85750	136450	158200	123400	103390	57120	28533	26328	30767
MEAN	1630	1740	2455	2766	4705	5103	4113	3335	1904	920	849	1026
MAX	1650	1900	3980	3390	16400	5710	4660	4490	2650	1360	1450	1080
MIN	1590	1660	2040	2300	2340	4390	3510	2630	1310	731	678	977
AC-FT	100200	103600	151000	170100	270600	313800	244800	205100	113300	56600	52220	61030

e Estimated.

11520500 KLAMATH RIVER NEAR SEIAD VALLEY, CA—Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1913 - 2004, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	2091	2983	4497	5733	6120	6435	5880	5082	3209	1646	1402	1635
MAX	4490	7654	20280	21500	17980	19120	13940	10700	7980	3908	2778	3000
(WY)	1963	1985	1965	1965	1958	1972	1974	1956	1953	1913	1913	1925
MIN	1047	1200	1395	1408	1466	1145	1132	1285	819	598	436	604
(WY)	1992	1995	1995	1992	1992	1977	1977	1992	1992	1992	1992	1992

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1913 - 2004	
ANNUAL TOTAL	1146201		928778			
ANNUAL MEAN	3140		2538		3881	
HIGHEST ANNUAL MEAN					7434	
LOWEST ANNUAL MEAN					1151	
HIGHEST DAILY MEAN	9970	Jan 14	16400	Feb 18	115000	Dec 23 1964
LOWEST DAILY MEAN	982	Jul 30	678	Aug 14	320	Nov 25 1917
ANNUAL SEVEN-DAY MINIMUM	1030	Jul 19	694	Aug 10	417	Aug 18 1992
MAXIMUM PEAK FLOW			17600	Feb 18	165000	Dec 23 1964
MAXIMUM PEAK STAGE			11.66	Feb 18	33.75	Dec 23 1964
ANNUAL RUNOFF (AC-FT)	2273000		1842000		2812000	
10 PERCENT EXCEEDS	5860		4870		8000	
50 PERCENT EXCEEDS	2300		2200		2690	
90 PERCENT EXCEEDS	1200		830		1190	

11521500 INDIAN CREEK NEAR HAPPY CAMP, CA

LOCATION.—Lat 41°50'07", long 123°22'55", in SW 1/4 SW 1/4 sec.26, T.17 N., R.7 E., Siskiyou County, Hydrologic Unit 18010209, on right bank, 0.2 mi upstream from Slater Creek, 3.0 mi north of Happy Camp, and 3.5 mi upstream from mouth.

DRAINAGE AREA.—120 mi².

PERIOD OF RECORD.—September 1911 to September 1921 (fragmentary), December 1956 to current year. Monthly discharge only for some periods, published in WSP 1315-B.

REVISED RECORDS.—WSP 1635: 1957–58.

GAGE.—Water-stage recorder. Datum of gage is 1,198.37 ft above NGVD of 1929. Prior to December 1956, nonrecording gages at sites 1.0 mi upstream at different datums. December 1956 to Sept. 20, 1969, water-stage recorder at site 0.8 mi upstream at different datum.

REMARKS.—Records good. Small diversions upstream and at station for irrigation. See schematic diagram of [Klamath River and Trinity River Basins](#).

EXTREMES FOR PERIOD OF RECORD.—Maximum discharge, 39,000 ft³/s, Dec. 22, 1964, gage height, 24.3 ft, from floodmarks, present site and datum; 36.59 ft from floodmarks in gage well, from rating curve extended above 6,000 ft³/s, on basis of slope-area measurement at gage height 29.0 ft, previous site and datum; minimum daily, 21 ft³/s, Sept. 12, 1977.

EXTREMES OUTSIDE PERIOD OF RECORD.—Flood of Dec. 21, 1955, reached a stage of 29.0 ft, at 1956–69 site and datum, from floodmarks, discharge, 23,000 ft³/s, on basis of slope-area measurement of peak flow.

EXTREMES FOR CURRENT YEAR.—Peak discharges greater than base discharge of 3,100 ft³/s, or maximum:

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Dec. 13	2330	4,000	9.39	Feb. 17	1730	4,460	9.76

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	41	41	178	493	658	839	763	701	296	112	54	44
2	40	43	153	488	661	773	698	734	301	107	54	44
3	40	47	141	455	628	712	676	738	297	103	53	44
4	40	47	190	418	581	657	717	686	283	100	53	44
5	40	49	481	387	545	631	752	629	267	95	53	43
6	40	51	1010	377	545	612	737	566	261	92	54	43
7	40	54	478	346	548	621	726	573	250	89	54	41
8	40	61	304	758	519	747	720	568	249	87	52	39
9	40	81	233	923	495	958	737	512	236	85	50	38
10	41	66	210	954	473	1050	755	483	226	83	49	38
11	42	57	193	763	457	999	769	469	219	82	48	38
12	46	53	374	678	448	997	778	443	211	80	48	38
13	44	52	2780	779	447	1020	728	433	205	77	47	39
14	42	51	1860	891	472	1040	675	437	200	75	46	41
15	42	69	769	1090	508	1060	640	452	189	73	46	40
16	44	75	532	930	1630	1040	581	443	188	72	46	41
17	44	99	437	790	3370	1040	539	429	182	70	46	41
18	43	75	379	690	3090	1050	510	434	173	70	45	46
19	42	65	359	671	1770	1000	511	409	166	70	45	50
20	45	73	420	657	1290	884	698	402	158	69	44	50
21	45	68	391	603	1050	893	891	401	151	67	44	47
22	43	60	359	552	906	990	762	394	147	65	46	45
23	42	57	353	538	813	1010	686	370	142	63	54	43
24	42	56	985	642	806	943	670	352	135	60	55	42
25	40	56	752	590	1060	934	697	347	129	59	53	42
26	40	60	541	548	1320	872	837	360	124	58	55	41
27	40	59	456	558	1120	863	913	381	121	57	51	41
28	40	56	418	549	939	843	842	410	116	56	49	41
29	40	146	460	575	837	879	695	359	116	55	47	41
30	40	208	406	853	---	967	658	325	116	54	45	40
31	41	---	388	765	---	861	---	308	---	54	44	---
TOTAL	1289	2035	16990	20311	27986	27785	21361	14548	5854	2339	1530	1265
MEAN	41.6	67.8	548	655	965	896	712	469	195	75.5	49.4	42.2
MAX	46	208	2780	1090	3370	1060	913	738	301	112	55	50
MIN	40	41	141	346	447	612	510	308	116	54	44	38
AC-FT	2560	4040	33700	40290	55510	55110	42370	28860	11610	4640	3030	2510

KLAMATH RIVER BASIN

11521500 INDIAN CREEK NEAR HAPPY CAMP, CA—Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1957 - 2004, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	76.6	298	610	751	815	779	662	546	259	99.0	59.3	51.0
MAX	414	1498	3156	2230	2820	1896	1372	1368	579	204	100	102
(WY)	1963	1974	1965	1970	1958	1972	1966	1969	1975	1983	1983	1978
MIN	29.2	45.6	45.7	50.5	87.1	170	198	144	63.6	36.5	25.3	24.6
(WY)	2002	1960	1977	1977	1977	1977	2001	2001	2001	1977	2001	2001

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1957 - 2004	
ANNUAL TOTAL	166199		143293			
ANNUAL MEAN	455		392		416	
HIGHEST ANNUAL MEAN					817	
LOWEST ANNUAL MEAN					83.7	
HIGHEST DAILY MEAN	2780	Dec 13	3370	Feb 17	30700	Dec 22 1964
LOWEST DAILY MEAN	40	Oct 2	38	Sep 9	21	Sep 12 1977
ANNUAL SEVEN-DAY MINIMUM	40	Oct 2	39	Sep 7	22	Sep 8 1977
MAXIMUM PEAK FLOW			4460	Feb 17	39000	Dec 22 1964
MAXIMUM PEAK STAGE			9.76	Feb 17	24.30	Dec 22 1964
ANNUAL RUNOFF (AC-FT)	329700		284200		301200	
10 PERCENT EXCEEDS	1040		897		957	
50 PERCENT EXCEEDS	343		250		205	
90 PERCENT EXCEEDS	44		42		46	

11522500 SALMON RIVER AT SOMES BAR, CA

LOCATION.—Lat 41°22'40", long 123°28'35", in SW 1/4 NE 1/4 sec.3, T.11 N., R.6 E., [Siskiyou County](#), Hydrologic Unit 18010210, Klamath National Forest, on left bank at Somes Bar, and 1.0 mi upstream from mouth.

DRAINAGE AREA.—751 mi².

PERIOD OF RECORD.—September 1911 to September 1915, October 1927 to current year. Monthly discharge only for some periods, published in WSP 1315-B.

CHEMICAL ANALYSES: Water years 1959–64.

WATER TEMPERATURE: Water year 1966 to May 1979.

SEDIMENT DATA: Water years 1955–56.

REVISED RECORDS.—WSP 1285: 1912, 1914, 1915(M), 1946(M), 1948(M). WDR CA-72-1: 1970–71(P).

GAGE.—Water-stage recorder and crest-stage gage. Datum of gage is 482.97 ft above NGVD of 1929. Prior to October 1927, nonrecording gage at different datum. October 1927 to Dec. 22, 1964, water-stage recorder at site 0.5 mi upstream at datum 6.54 ft higher.

REMARKS.—Records good. No storage or large diversion upstream from station. See schematic diagram of [Klamath River and Trinity River Basins](#).

EXTREMES FOR PERIOD OF RECORD.—Maximum discharge, 133,000 ft³/s, Dec. 22, 1964 (result of failure of upstream debris dam), gage height, 46.6 ft, present site and datum, from floodmarks, from rating curve extended above 33,000 ft³/s; minimum daily, 60 ft³/s, Sept. 21–24, 2001.

EXTREMES FOR CURRENT YEAR.—Peak discharges greater than base discharge of 10,000 ft³/s, or maximum:

Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Feb. 17	2115	18,800	12.66

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	167	162	745	2230	2520	3570	3180	3450	2090	921	318	182
2	166	175	625	2380	2480	3380	2970	3760	2250	848	308	179
3	167	199	535	1740	2360	3160	2870	3950	2320	805	315	177
4	166	197	552	1430	2200	2950	3030	3980	2280	784	308	177
5	161	209	1320	1250	2030	2780	3280	3620	2170	760	301	174
6	159	207	3480	1190	1980	2650	3370	3280	1990	737	302	167
7	159	215	2100	1330	1910	2600	3350	3240	1780	718	304	161
8	159	245	1310	2100	1790	2980	3290	3170	1630	670	292	160
9	159	341	935	3530	1700	3650	3360	2850	1440	645	276	157
10	161	295	795	3440	1620	4020	3420	2750	1400	619	266	153
11	167	251	771	2730	1560	3820	3490	2560	1390	585	260	151
12	181	232	1120	2430	1540	3830	3570	2380	1360	566	250	153
13	181	223	5060	2710	1530	3890	3590	2360	1370	543	242	156
14	177	220	4940	3140	1500	3970	3240	2430	1380	518	235	160
15	172	289	2480	3890	1480	4090	3040	2570	1340	500	231	160
16	173	320	1680	3290	2530	4130	2790	2630	1380	489	229	157
17	172	387	1340	2750	11500	4100	2600	2540	1440	482	228	155
18	170	335	1190	2400	12900	4210	2460	2520	1350	481	223	182
19	165	287	1160	2250	7690	4210	2360	2350	1330	481	217	194
20	165	347	1580	2150	5680	3710	2600	2360	1200	494	212	198
21	165	329	1400	1990	4600	3750	2930	2510	1170	468	206	189
22	162	288	1220	1830	3930	4060	2760	2500	1170	442	214	178
23	160	263	1120	1750	3430	4280	2660	2380	1180	423	260	169
24	160	253	1990	2170	3150	3930	2680	2240	1120	407	269	162
25	158	251	2190	2060	3550	3770	2840	2190	1040	392	256	158
26	154	265	1730	1960	5190	3470	3350	2330	964	383	260	154
27	152	253	1410	2280	5060	3360	4070	2650	916	363	242	153
28	152	245	1280	2490	4150	3240	4190	2810	906	347	223	150
29	151	507	2100	2420	3630	3310	3420	2390	956	334	208	149
30	151	1050	1780	2840	---	3780	3220	2150	996	325	195	149
31	158	---	1460	2750	---	3510	---	2140	---	316	187	---
TOTAL	5070	8840	51398	72900	105190	112160	93980	85040	43308	16846	7837	4964
MEAN	164	295	1658	2352	3627	3618	3133	2743	1444	543	253	165
MAX	181	1050	5060	3890	12900	4280	4190	3980	2320	921	318	198
MIN	151	162	535	1190	1480	2600	2360	2140	906	316	187	149
AC-FT	10060	17530	101900	144600	208600	222500	186400	168700	85900	33410	15540	9850

KLAMATH RIVER BASIN

11522500 SALMON RIVER AT SOMES BAR, CA—Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1912 - 2004, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	338	1075	2170	2958	2967	2941	2998	3100	1900	617	261	200
MAX	2297	5961	10480	11260	11190	9615	5741	6174	4354	1906	839	528
(WY)	1963	1974	1965	1970	1958	1972	1938	1938	1953	1953	1983	1983
MIN	102	130	175	190	255	448	710	786	402	146	81.6	80.2
(WY)	2002	1937	1937	1937	1977	1977	1977	1977	1992	1931	1931	2001

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1912 - 2004	
ANNUAL TOTAL	740284		607533			
ANNUAL MEAN	2028		1660		1788	
HIGHEST ANNUAL MEAN					3754	
LOWEST ANNUAL MEAN					339	
HIGHEST DAILY MEAN	12800	Mar 26	12900	Feb 18	100000	Dec 22 1964
LOWEST DAILY MEAN	151	Oct 29	149	Sep 29	60	Sep 21 2001
ANNUAL SEVEN-DAY MINIMUM	154	Oct 25	154	Sep 24	61	Sep 18 2001
MAXIMUM PEAK FLOW			18800	Feb 17	133000	Dec 22 1964
MAXIMUM PEAK STAGE			12.66	Feb 17	46.60	Dec 22 1964
ANNUAL RUNOFF (AC-FT)	1468000		1205000		1295000	
10 PERCENT EXCEEDS	4610		3620		4200	
50 PERCENT EXCEEDS	1380		1340		1020	
90 PERCENT EXCEEDS	174		165		178	

11523000 KLAMATH RIVER AT ORLEANS, CA

LOCATION.—Lat 41°18'13", long 123°32'00", in SW 1/4 NE 1/4 sec.31, T.11 N., R.6 E., Humboldt County, Hydrologic Unit 18010209, Six Rivers National Forest, on right bank at Orleans, 25 ft upstream from highway bridge, and 0.2 mi downstream from Cheenitch Creek.

DRAINAGE AREA.—8,475 mi², not including Lost River or Lower Klamath Lake Basins.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.—October 1927 to current year. Monthly discharge only for some periods, published in WSP 1315-B. Prior to October 1965, published as "at Somesbar."

REVISED RECORDS.—WSP 1565: 1935(M), 1949.

GAGE.—Water-stage recorder and crest-stage gage. Datum of gage is 353.98 ft above NGVD of 1929. Prior to Oct. 1, 1965, at site 6.7 mi upstream at different datum. Oct. 1, 1965, to July 14, 1992, water-stage recorder at datum 2.00 ft higher, at present site.

REMARKS.—Records good. Flow considerably regulated by reservoirs and powerplants upstream from station. Large diversions upstream from station for irrigation. See schematic diagram of [Klamath River and Trinity River Basins](#).

EXTREMES FOR PERIOD OF RECORD.—Maximum discharge, 307,000 ft³/s, Dec. 22, 1964, gage height, 76.5 ft, from floodmarks, site and datum then in use, from rating curve extended above 80,000 ft³/s, on basis of slope-conveyance study, gage height, 59.4 ft; minimum daily, 320 ft³/s, Aug. 25, Sept. 1, 1931.

EXTREMES FOR CURRENT YEAR.—Peak discharges greater than base discharge of 40,000 ft³/s, or maximum:

Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Feb. 18	0600	63,500	20.13

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2110	2180	3740	8290	11200	15700	12900	11600	6550	2990	1500	1620
2	2120	2220	3750	9450	10800	15600	12000	12100	6700	2880	1490	1600
3	2160	2280	3500	7360	10300	14600	11500	12600	6830	2700	1480	1580
4	2170	2280	3560	6570	9430	13600	11700	12600	6760	2640	1490	1590
5	2160	2340	6200	5960	8680	12900	12100	12100	6560	2560	1490	1590
6	2150	2310	13000	5590	8370	12400	12300	11200	6320	2490	1490	1590
7	2140	2350	8740	5970	8410	12100	12400	10900	5970	2420	1500	1590
8	2140	2400	6520	9470	7860	12900	12300	10800	5650	2340	1480	1580
9	2150	2600	4930	13900	7440	14800	12300	9840	5210	2260	1460	1580
10	2160	2520	4460	14400	7060	16100	12200	9140	4970	2210	1430	1580
11	2170	2440	4290	12200	6800	15700	12300	8770	4820	2170	1420	1570
12	2200	2390	5230	10500	6630	15500	12400	8270	4700	2130	1400	1570
13	2210	2350	23100	11200	6540	15500	12400	8010	4620	2070	1390	1590
14	2190	2350	24500	12400	6630	15500	11800	8030	4590	2020	1370	1610
15	2190	2520	12400	15800	6650	15700	11400	8280	4480	1980	1350	1610
16	2190	2610	8280	14100	12000	15700	10500	8380	4450	1940	1360	1620
17	2200	2800	6570	12200	38900	15700	9840	8130	4390	1930	1370	1630
18	2200	2620	5760	10900	56000	15800	9350	8160	4110	1860	1420	1690
19	2190	2480	5400	10300	37000	15800	9110	7940	3960	1830	1430	1740
20	2200	2560	6550	9850	26300	14700	10500	7820	3760	1830	1420	1750
21	2200	2550	6020	9090	20700	14300	13100	7990	3660	1810	1410	1740
22	2190	2460	5330	8320	17700	15100	11900	7940	3590	1780	1420	1720
23	2180	2410	4960	7850	15800	15800	10900	7640	3540	1740	1500	1700
24	2170	2390	9140	9440	14900	15100	10600	7280	3430	1700	1560	1700
25	2180	2400	10400	9070	15600	14800	10700	7070	3270	1650	1590	1700
26	2170	2450	8130	8520	22000	14400	11800	7150	3140	1640	1730	1680
27	2170	2430	6610	9900	22000	14100	13200	7680	3050	1630	2010	1670
28	2160	2390	5840	10800	18100	13600	13700	8280	2990	1590	2030	1670
29	2170	2930	8190	10600	16000	13500	12200	7760	3010	1550	1960	1680
30	2170	4320	7160	12500	---	14500	11400	7000	3060	1530	1820	1670
31	2180	---	6170	12600	---	13900	---	6730	---	1510	1690	---
TOTAL	67340	75330	238430	315100	455800	455400	350800	277190	138140	63380	47460	49210
MEAN	2172	2511	7691	10160	15720	14690	11690	8942	4605	2045	1531	1640
MAX	2210	4320	24500	15800	56000	16100	13700	12600	6830	2990	2030	1750
MIN	2110	2180	3500	5590	6540	12100	9110	6730	2990	1510	1350	1570
AC-FT	133600	149400	472900	625000	904100	903300	695800	549800	274000	125700	94140	97610

KLAMATH RIVER BASIN

11523000 KLAMATH RIVER AT ORLEANS, CA—Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1928 - 2004, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	2967	5885	10570	13740	14030	13870	12660	10970	6451	2789	2039	2183
MAX	9876	22080	48770	51290	53740	42600	26860	25320	16900	7226	3666	3807
(WY)	1963	1974	1965	1997	1986	1972	1974	1938	1953	1953	1953	1953
MIN	1354	1930	2288	2334	2630	2806	3065	3081	1626	755	549	790
(WY)	1993	1988	1937	1937	1977	1977	1977	1992	1992	1931	1931	1992

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1928 - 2004	
ANNUAL TOTAL	3066830		2533580			
ANNUAL MEAN	8402		6922		8152	
HIGHEST ANNUAL MEAN					17030	
LOWEST ANNUAL MEAN					2520	
HIGHEST DAILY MEAN	39600	Jan 14	56000	Feb 18	240000	Dec 23 1964
LOWEST DAILY MEAN	1870	Aug 31	1350	Aug 15	320	Aug 25 1931
ANNUAL SEVEN-DAY MINIMUM	1890	Aug 27	1380	Aug 11	453	Aug 1 1931
MAXIMUM PEAK FLOW			63500		307000	
MAXIMUM PEAK STAGE			20.13		76.50	
ANNUAL RUNOFF (AC-FT)	6083000		5025000		5906000	
10 PERCENT EXCEEDS	17400		14400		17900	
50 PERCENT EXCEEDS	5980		5220		4850	
90 PERCENT EXCEEDS	2070		1590		1860	

11523200 TRINITY RIVER ABOVE COFFEE CREEK, NEAR TRINITY CENTER, CA

LOCATION.—Lat 41°06'41", long 122°42'16", in SW 1/4 NW 1/4 sec.32, T.38 N., R.7 W., Trinity County, Hydrologic Unit 18010211, Shasta National Forest, on left bank, 24 ft upstream from State Highway No. 3 Bridge, 1.8 mi upstream from Coffee Creek, and 8.6 mi north of Trinity Center.

DRAINAGE AREA.—149 mi².

PERIOD OF RECORD.—September 1957 to current year.

REVISED RECORDS.—WDR CA-85-2: 1982(M). WDR CA-97-2: 1982(M).

GAGE.—Water-stage recorder and crest-stage gage. Datum of gage is 2,536.93 ft above NGVD of 1929. Prior to Oct. 1, 1978, water-stage recorder at site 0.2 mi downstream at datum 3.57 ft lower.

REMARKS.—Records good. No regulation or diversion upstream from station. See schematic diagram of [Klamath River and Trinity River Basins](#).

EXTREMES FOR PERIOD OF RECORD.—Maximum discharge, 26,500 ft³/s, Jan. 16, 1974, gage height, 12.96 ft, site and datum then in use, from rating curve extended above 4,500 ft³/s, on basis of slope-area measurement of peak flow, maximum gage height, 16.82 ft, Jan. 1, 1997, present datum; minimum daily, 16 ft³/s, Sept. 11–14, 1977.

EXTREMES OUTSIDE PERIOD OF RECORD.—Flood of Dec. 22, 1955, reached a stage of 10.5 ft, previous site and datum, from floodmarks, discharge, 11,400 ft³/s.

EXTREMES FOR CURRENT YEAR.—Peak discharges greater than base discharge of 2,300 ft³/s, or maximum:

Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Feb. 17	1700	9,380	11.89

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	26	40	269	233	244	534	1010	1320	603	159	58	e39
2	29	46	246	216	251	481	879	1480	638	151	60	e38
3	31	52	215	191	242	447	933	1660	657	142	62	e38
4	33	51	186	181	233	429	1150	1600	645	138	60	e37
5	35	52	329	172	225	446	1290	1440	592	129	57	e37
6	36	55	1340	171	225	459	1280	1310	520	120	59	e36
7	38	75	618	183	221	533	1270	1190	455	116	56	e35
8	40	270	349	284	214	797	1260	1060	397	111	53	e35
9	40	232	268	429	211	1140	1320	945	353	109	49	e34
10	41	139	239	408	211	1350	1330	917	342	109	50	e34
11	42	104	214	366	219	1250	1330	787	333	105	49	e33
12	43	92	206	337	232	1310	1360	709	323	102	48	e32
13	42	83	281	383	243	1350	1370	718	328	94	50	e32
14	41	94	881	442	253	1400	1200	775	323	89	50	e32
15	42	124	409	500	278	1480	981	873	309	88	49	e33
16	42	116	294	464	716	1460	832	871	308	85	42	e34
17	43	112	245	404	5760	1480	726	830	288	82	46	e37
18	41	101	224	369	3590	1570	650	875	272	81	46	e41
19	41	94	230	360	1690	1500	633	775	259	82	45	e47
20	40	103	252	346	1150	1260	676	768	240	82	44	e47
21	39	90	237	329	895	1410	694	779	225	77	46	e47
22	39	81	225	311	792	1610	656	807	219	72	46	e46
23	38	74	309	301	703	1670	666	763	213	70	52	e45
24	38	73	1240	292	730	1470	742	705	197	68	54	46
25	37	70	645	268	854	1240	902	704	185	68	52	45
26	36	69	411	255	903	989	1240	769	177	66	51	42
27	36	66	310	253	710	871	1610	859	169	64	e49	41
28	36	67	269	236	591	834	1580	765	168	64	e46	41
29	37	120	259	229	531	981	1280	639	168	62	e42	39
30	37	203	239	251	---	1400	1210	598	167	57	e40	38
31	40	---	216	250	---	1200	---	601	---	60	e39	---
TOTAL	1179	2948	11655	9414	23117	34351	32060	28892	10073	2902	1550	1161
MEAN	38.0	98.3	376	304	797	1108	1069	932	336	93.6	50.0	38.7
MAX	43	270	1340	500	5760	1670	1610	1660	657	159	62	47
MIN	26	40	186	171	211	429	633	598	167	57	39	32
AC-FT	2340	5850	23120	18670	45850	68140	63590	57310	19980	5760	3070	2300

e Estimated.

11523200 TRINITY RIVER ABOVE COFFEE CREEK, NEAR TRINITY CENTER, CA—Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1958 - 2004, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	73.7	201	334	469	572	680	869	1057	505	131	55.1	43.9
MAX	447	1664	1726	1899	2248	1641	1558	2414	2159	778	205	134
(WY)	1963	1974	1965	1974	1958	1995	2000	1983	1998	1983	1983	1978
MIN	24.3	37.4	34.1	35.9	47.2	60.0	137	204	95.7	29.0	20.9	23.3
(WY)	1992	1977	1977	1977	1977	1977	1977	1977	1977	1977	1977	1994

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1958 - 2004	
ANNUAL TOTAL	198055		159302			
ANNUAL MEAN	543		435		415	
HIGHEST ANNUAL MEAN					851	
LOWEST ANNUAL MEAN					66.2	
HIGHEST DAILY MEAN	2980	Mar 15	5760	Feb 17	18900	Jan 16 1974
LOWEST DAILY MEAN	22	Sep 23	26	Oct 1	16	Sep 11 1977
ANNUAL SEVEN-DAY MINIMUM	24	Sep 23	33	Oct 1	16	Sep 8 1977
MAXIMUM PEAK FLOW			9380	Feb 17	26500	Jan 16 1974
MAXIMUM PEAK STAGE			11.89	Feb 17	16.82	Jan 1 1997
ANNUAL RUNOFF (AC-FT)	392800		316000		300600	
10 PERCENT EXCEEDS	1310		1260		1060	
50 PERCENT EXCEEDS	311		231		175	
90 PERCENT EXCEEDS	38		39		37	

11525400 TRINITY LAKE NEAR LEWISTON, CA

LOCATION.—Lat 40°48'05", long 122°45'44", in NW 1/4 SW 1/4 sec.15, T.34 N., R.8 W., Trinity County, Hydrologic Unit 18010211, Trinity National Forest, Whiskeytown–Shasta–Trinity National Recreation Area, on side of intake structure of Trinity Dam on Trinity River, and 9 mi north of Lewiston.

DRAINAGE AREA.—692 mi².

PERIOD OF RECORD.—November 1960 to current year. From October 1963 to September 1997 published as "Clair Engle Lake near Lewiston".

GAGE.—Water-stage recorder. Datum of gage is 2,389.95 ft above NGVD of 1929 (levels by U.S. Bureau of Reclamation). Prior to Jan. 4, 1962, nonrecording gage at same site and datum. Contents based on capacity table provided by U.S. Bureau of Reclamation, dated April 1962.

REMARKS.—Lake is formed by an earthfill dam completed in November 1960. Storage began Nov. 23, 1960. Usable capacity, 2,437,700 acre-ft, between elevations 1,995.5 ft, elevation of invert of river outlets, and 2,370.0 ft, crest of glory hole spillway. Dead storage, 10,000 acre-ft. Operating pool is from elevation 2,145.0 ft, capacity, 312,621 acre-ft, to 2,370.0 ft, capacity, 2,447,700 acre-ft. Figures given represent total contents at 2400 hours. Lake is used for power generation, flood control, and recreation. See schematic diagram of [Klamath River and Trinity River Basins](#).

COOPERATION.—Records were provided by U.S. Bureau of Reclamation, not rounded to U.S. Geological Survey standards.

EXTREMES (at 2400 HOURS) FOR PERIOD OF RECORD.—Maximum contents, 2,588,000 acre-ft, Jan. 19, 1974, elevation, 2,378.32 ft; minimum since first filling, 222,400 acre-ft, Nov. 9, 1977, elevation, 2,120.22 ft.

EXTREMES (at 2400 HOURS) FOR CURRENT YEAR.—Maximum contents, 2,269,649 acre-ft, May 12, 13, elevation, 2,358.88 ft; minimum, 1,590,953 acre-ft, Sept. 30, elevation, 2,310.59 ft.

Capacity table (elevation, in feet, and contents, in acre-feet)
(Based on table provided by U.S. Bureau of Reclamation, dated April 1962)

2,100	162,231	2,190	529,611	2,310	1,583,586	2,380	2,616,989
2,140	292,859	2,250	955,140				

RESERVOIR STORAGE, ACRE-FEET, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAILY OBSERVATION AT 2400 HOURS

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1874393	1728523	1702259	1809301	1892210	2110504	2153360	2229619	2188730	2048953	1872866	1732484
2	1867889	1727862	1704090	1812150	1895283	2113046	2155781	2235163	2186445	2042631	1866783	1724957
3	1862082	1727994	1705660	1814049	1897798	2114393	2158504	2242097	2184921	2036474	1861391	1719172
4	1856566	1726146	1706445	1815134	1900313	2110504	2162438	2248278	2182788	2030316	1856016	1714702
5	1850240	1723378	1709061	1815541	1902557	2104670	2166987	2253841	2179893	2024183	1850790	1710369
6	1844059	1721143	1720880	1815812	1904804	2099452	2171693	2257555	2176096	2017612	1845977	1706576
7	1838037	1719434	1729843	1817576	1907052	2094983	2176703	2260811	2172300	2011787	1841869	1702389
8	1831607	1719303	1733540	1820570	1908878	2090811	2181569	2263447	2168049	2004952	1837490	1697813
9	1825475	1720092	1734993	1826293	1910563	2087984	2185531	2265618	2163648	1997404	1833111	1693128
10	1818935	1719040	1736842	1832563	1911968	2087539	2189949	2267634	2158958	1989582	1829018	1688442
11	1812557	1716674	1738297	1837627	1913794	2085313	2193149	2269339	2154419	1983080	1824930	1684153
12	1806859	1714702	1739756	1842006	1915623	2084868	2195590	2269649	2149729	1978035	1820434	1679232
13	1800773	1712205	1742674	1846114	1917317	2085462	2197272	2269649	2145355	1972124	1815541	1675089
14	1794695	1710369	1752630	1850515	1919435	2086500	2199566	2269184	2141134	1965670	1811200	1671339
15	1789840	1709061	1757826	1855741	1922541	2091556	2201859	2266393	2136612	1959646	1806317	1667861
16	1786344	1709061	1760758	1860561	1933293	2097962	2202777	2261586	2132396	1954356	1801718	1664126
17	1782714	1709323	1762356	1864847	1980053	2104520	2203388	2256159	2128041	1949505	1799962	1660647
18	1778950	1709585	1763023	1868580	2031049	2111251	2202624	2250905	2123385	1944511	1799017	1656412
19	1773992	1709715	1764222	1871898	2049836	2118431	2203235	2245651	2118431	1939396	1798342	1652055
20	1768371	1709715	1766363	1874393	2058521	2124136	2204306	2240552	2113046	1934570	1797801	1648083
21	1762623	1709846	1768371	1875783	2064134	2129843	2205529	2235471	2107961	1929603	1796046	1643996
22	1756627	1709061	1769575	1877172	2068272	2136461	2206599	2229927	2102432	1924941	1791050	1639789
23	1751564	1707884	1771851	1878145	2071228	2140380	2206140	2225001	2097217	1920000	1783790	1635581
24	1745725	1706445	1781773	1879257	2074926	2142792	2207058	2219477	2091407	1914918	1776000	1631641
25	1739888	1704613	1789033	1880230	2083978	2145807	2208740	2214106	2084868	1909861	1770111	1626568
26	1734465	1702389	1792940	1881342	2094536	2146712	2211344	2209504	2078487	1904383	1764890	1621241
27	1732616	1700558	1795641	1882732	2101389	2146561	2215794	2206140	2072706	1899755	1759692	1614049
28	1732088	1699250	1798612	1884121	2105418	2145958	2220704	2202930	2066942	1894725	1754762	1606238
29	1730899	1699381	1803744	1885789	2106465	2144903	2223313	2199413	2061030	1889415	1750102	1598457
30	1729843	1700558	1805639	1887878	---	2148069	2226232	2195896	2055135	1883566	1745460	1590953
31	1729051	---	1806181	1890114	---	2151696	---	2192387	---	1878562	1739093	---
a	2321.34	2319.17	2327.11	2333.22	2348.17	2351.18	2356.07	2353.86	2344.71	2332.39	2322.10	2310.59
b	-152152	-28493	+105623	+83933	+216351	+45231	+74536	-33845	-137252	-176573	-139469	-148140
MAX	1874393	1728523	1806181	1890114	2106465	2151696	2226232	2269649	2188730	2048953	1872866	1732484
MIN	1729051	1699250	1702259	1809301	1892210	2084868	2153360	2192387	2055135	1878562	1739093	1590953
CAL YR 2003 b	-231041											
CAL YR 2004 b	+290250											

a Elevation, in feet, at end of month.

b Change in contents, in acre-feet.

11525500 TRINITY RIVER AT LEWISTON, CA

LOCATION.—Lat 40°43'10", long 122°48'09", in SW 1/4 NW 1/4 sec.17, T.33 N., R.8 W., [Trinity County](#), Hydrologic Unit 18010211, on right bank, 400 ft upstream from Deadwood Creek, 0.8 mi downstream from Lewiston Diversion Dam, and 0.8 mi northeast of Lewiston.

DRAINAGE AREA.—719 mi².

PERIOD OF RECORD.—August 1911 to current year.

CHEMICAL DATA: Water years 1951–81.

WATER TEMPERATURE: Water years 1952–55, 1958–83.

SEDIMENT DATA: Water years 1955–61.

REVISED RECORDS.—WSP 331: 1911–12. WSP 1181: 1949. WSP 1929: Drainage area.

GAGE.—Water-stage recorder. Datum of gage is 1,815.95 ft above NGVD of 1929. See WSP 1929 for history of changes prior to July 7, 1964.

REMARKS.—Records good. Flow completely regulated by Trinity Lake (station 11525400) beginning in November 1960 and Lewiston Lake, capacity, 14,660 acre-ft, when diversion to Judge Francis Carr Powerplant (station 11525430) began in April 1963. Small diversions above head of Trinity Lake for irrigation, power, placer mining, and domestic use between Trinity Dam and station at Lewiston. See schematic diagram of [Klamath River and Trinity River Basins](#).

EXTREMES FOR PERIOD OF RECORD.—Maximum discharge, 71,600 ft³/s, Dec. 22, 1955, gage height, 27.3 ft, from floodmarks, site and datum then in use; minimum daily, 28 ft³/s, July 30, 1924. Since completion of Trinity Dam in 1960, maximum discharge, 14,400 ft³/s, Jan. 18, 1974, gage height, 10.41 ft; minimum daily, 100 ft³/s, Apr. 14, 1976.

EXTREMES OUTSIDE PERIOD OF RECORD.—Flood of December 1861 reached a stage of 21.6 ft, from floodmarks, at site 1.1 mi downstream at different datum, discharge not determined.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	445	291	308	304	318	2110	321	313	4180	2050	495	1340
2	448	293	307	310	320	2120	321	314	3950	2030	498	1350
3	451	294	306	324	321	2120	319	313	3650	2050	500	1310
4	450	293	307	323	319	2120	318	314	3400	2050	495	1330
5	446	296	307	321	316	2120	319	1120	3020	2040	495	1200
6	448	296	311	326	317	2100	321	2440	3030	2040	495	1180
7	459	293	307	309	316	2110	321	2610	2990	2020	493	1130
8	462	295	309	280	315	2100	320	2440	2980	2010	493	1180
9	460	292	311	302	320	2120	317	2470	2730	2000	496	1120
10	462	288	314	303	327	2100	317	2560	2680	1650	497	1120
11	462	288	314	302	327	2060	318	2540	2520	1480	495	1050
12	462	288	320	300	326	1740	320	2870	2510	1280	494	808
13	462	289	322	299	325	1280	319	3110	2360	1070	496	506
14	462	286	300	296	326	904	320	3960	2330	1000	504	437
15	464	292	296	301	325	512	323	4790	2280	892	513	443
16	324	294	303	303	332	303	309	6170	2100	823	505	445
17	303	296	316	302	486	295	302	6200	1930	728	545	446
18	303	307	317	299	817	297	303	6170	1920	674	573	447
19	303	308	318	299	902	310	302	6040	1910	602	466	451
20	304	306	317	298	2000	313	303	5950	1950	560	458	448
21	303	309	314	299	2120	313	302	5940	2000	552	456	452
22	303	312	313	320	2110	315	304	5950	2000	495	548	458
23	298	313	314	319	2110	316	301	5980	2010	495	1600	447
24	289	311	316	321	2110	316	300	5950	1990	498	1700	432
25	290	309	316	319	2120	313	301	5930	2000	497	1630	431
26	291	311	317	319	2120	311	299	5550	2020	498	1490	430
27	288	317	316	321	2120	322	309	5240	2020	498	1560	433
28	287	314	316	322	2110	321	312	5000	2000	498	1520	433
29	289	312	307	318	2100	321	313	4560	2030	496	1500	433
30	290	309	303	320	---	324	313	4460	2080	493	1450	433
31	293	---	302	319	---	322	---	4410	---	493	1450	---
TOTAL	11601	9002	9644	9598	28375	32628	9367	121664	74570	34562	24910	22123
MEAN	374	300	311	310	978	1053	312	3925	2486	1115	804	737
MAX	464	317	322	326	2120	2120	323	6200	4180	2050	1700	1350
MIN	287	286	296	280	315	295	299	313	1910	493	456	430
AC-FT	23010	17860	19130	19040	56280	64720	18580	241300	147900	68550	49410	43880

11525530 RUSH CREEK NEAR LEWISTON, CA

LOCATION.—Lat 40°43'29", long 122°50'01", in SE 1/4 SW 1/4 sec.12, T.33 N., R.9 W., [Trinity County](#), Hydrologic Unit 18010211, on left bank, 0.1 mi downstream from Snow Gulch, 0.3 mi upstream of confluence with Trinity River, and 2.3 mi northwest of Lewiston.

DRAINAGE AREA.—22.3 mi².

PERIOD OF RECORD.—October 2002 to current year.

GAGE.—Water-stage recorder. Datum of gage is 1,837 ft above NGVD of 1929.

REMARKS.—No diversions. See schematic diagram of [Klamath River and Trinity River Basins](#).

COOPERATION.—Records were collected by Hoopa Valley Tribal Fisheries, under general supervision of the U.S. Geological Survey.

EXTREMES FOR PERIOD OF RECORD.—Maximum discharge, 1,940 ft³/s, Feb. 17, 2004, gage height, 4.87 ft; minimum daily, 1.8 ft³/s, Sept. 25–29, 2003, and several days during September 2004.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.0	3.9	39	53	59	132	64	91	49	12	2.9	1.8
2	2.0	4.9	29	50	66	123	59	107	53	12	2.9	1.9
3	2.1	5.9	21	41	72	104	59	123	54	11	3.1	1.9
4	2.1	5.6	21	36	71	90	70	108	51	10	3.0	1.9
5	2.1	5.4	76	32	65	76	75	87	45	10	3.0	1.9
6	2.1	5.5	193	31	63	65	73	79	40	10	2.8	1.9
7	2.1	7.1	75	35	59	64	75	77	33	9.4	2.8	1.8
8	2.1	16	41	62	53	78	76	69	25	8.4	2.7	1.8
9	2.2	22	32	126	49	96	79	59	23	7.9	2.6	1.8
10	2.3	12	30	132	45	100	80	57	25	7.3	2.4	1.8
11	2.4	8.0	28	111	43	93	78	49	27	6.7	2.3	1.8
12	2.4	6.8	36	97	42	96	82	46	27	6.3	2.2	1.8
13	2.5	6.5	81	99	41	100	e82	52	29	5.9	2.1	1.9
14	2.5	7.0	178	112	42	103	69	58	29	5.6	2.1	2.0
15	2.5	12	68	119	48	106	61	64	26	5.3	2.1	2.1
16	2.5	11	47	102	223	105	55	59	30	5.1	2.1	2.1
17	2.5	12	36	87	909	104	51	52	28	4.8	2.1	2.1
18	2.6	10	31	75	495	111	48	46	27	4.7	2.1	2.2
19	2.6	9.1	35	69	234	106	51	45	26	4.9	2.1	2.4
20	2.6	12	59	64	173	96	60	51	22	5.0	2.1	2.6
21	2.6	10	47	58	139	97	61	55	22	4.5	2.0	2.6
22	2.6	8.1	40	52	112	111	55	52	22	4.1	2.0	2.6
23	2.7	7.3	40	48	90	111	54	49	21	3.9	2.3	2.5
24	2.8	6.8	118	50	79	89	59	46	19	3.7	2.4	2.4
25	2.8	6.6	84	45	130	90	73	48	16	3.6	2.5	2.3
26	2.7	6.5	61	43	210	71	97	59	15	3.4	2.6	2.3
27	2.8	6.2	48	46	173	66	123	64	15	3.3	2.6	2.3
28	2.8	6.3	42	45	129	60	109	60	15	3.1	2.4	2.3
29	2.9	26	42	46	105	62	80	42	14	3.0	2.2	2.4
30	3.3	37	36	60	---	85	78	42	13	3.0	1.9	2.4
31	3.6	---	33	62	---	75	---	45	---	3.0	1.9	---
TOTAL	77.8	303.5	1747	2088	4019	2865	2136	1941	841	190.9	74.3	63.6
MEAN	2.51	10.1	56.4	67.4	139	92.4	71.2	62.6	28.0	6.16	2.40	2.12
MAX	3.6	37	193	132	909	132	123	123	54	12	3.1	2.6
MIN	2.0	3.9	21	31	41	60	48	42	13	3.0	1.9	1.8
AC-FT	154	602	3470	4140	7970	5680	4240	3850	1670	379	147	126

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2003 - 2004, BY WATER YEAR (WY)

	2003	2004	2004	2004	2004	2004	2004	2004	2004	2004	2004	2004
MEAN	2.51	10.1	56.4	67.4	139	92.4	71.2	82.4	40.9	7.98	3.26	2.23
MAX	2.51	10.1	56.4	67.4	139	92.4	71.2	102	53.7	9.80	4.13	2.34
(WY)	2004	2004	2004	2004	2004	2004	2004	2003	2003	2003	2003	2003
MIN	2.51	10.1	56.4	67.4	139	92.4	71.2	62.6	28.0	6.16	2.40	2.12
(WY)	2004	2004	2004	2004	2004	2004	2004	2004	2004	2004	2004	2004

SUMMARY STATISTICS

FOR 2004 WATER YEAR

WATER YEARS 2003 - 2004

ANNUAL TOTAL	16347.1		
ANNUAL MEAN	44.7	44.7	
HIGHEST ANNUAL MEAN		44.7	2004
LOWEST ANNUAL MEAN		44.7	2004
HIGHEST DAILY MEAN	909	909	Feb 17 2004
LOWEST DAILY MEAN	1.8	1.8	Sep 25 2003
ANNUAL SEVEN-DAY MINIMUM	1.8	1.8	Sep 6 2004
MAXIMUM PEAK FLOW	1940	1940	Feb 17 2004
MAXIMUM PEAK STAGE	4.87	4.87	Feb 17 2004
ANNUAL RUNOFF (AC-FT)	32420	32360	
10 PERCENT EXCEEDS	102	102	
50 PERCENT EXCEEDS	32	32	
90 PERCENT EXCEEDS	2.1	2.1	

e Estimated.

11525600 GRASS VALLEY CREEK AT FAWN LODGE, NEAR LEWISTON, CA

LOCATION.—Lat 40°40'35", long 122°49'46", in SW 1/4 NE 1/4 sec.36, T.33 N., R.9 W., Trinity County, Hydrologic Unit 18010211, on right bank, 0.1 mi upstream from Phillips Gulch, and 2.5 mi southwest of Lewiston.

DRAINAGE AREA.—30.8 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.—November 1975 to current year.

REVISED RECORDS.—WDR CA-86-2: 1983(M). WDR CA-94-2: 1993(P). WDR CA-97-2: 1983(P).

GAGE.—Water-stage recorder. Datum of gage is 2,049.73 ft above NGVD of 1929 (California State Highway Department Benchmark).

REMARKS.—Records fair. Minor regulation by Buckhorn Reservoir since 1990, capacity, 1,090 acre-ft; small pumping diversions upstream from station. See schematic diagram of Klamath River and Trinity River Basins.

EXTREMES FOR PERIOD OF RECORD.—Maximum discharge, 3,500 ft³/s, Feb. 28, 1983, gage height, 10.11 ft, from rating curve extended above 700 ft³/s, on basis of slope-area measurement of peak flow; minimum daily, 3.8 ft³/s, July 29, 1994.

EXTREMES FOR CURRENT YEAR.—Peak discharges greater than base discharge of 220 ft³/s, or maximum:

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Dec. 24	0815	323	4.68	Feb. 25	1315	362	4.90
Feb. 17	1745	1,100	6.59				

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	15	16	39	73	56	168	76	60	34	21	13	11
2	15	16	39	63	59	152	74	59	33	21	13	11
3	15	18	31	58	58	140	73	59	33	21	13	12
4	15	18	29	53	57	131	72	58	32	20	13	12
5	15	18	31	51	56	124	72	57	31	20	13	12
6	15	17	64	49	56	118	71	56	30	19	13	11
7	15	17	57	50	55	113	70	56	30	18	13	11
8	15	32	44	61	54	111	69	56	30	17	13	11
9	15	46	42	94	53	110	68	53	30	17	13	11
10	15	31	42	96	52	108	67	52	30	17	12	11
11	16	24	40	84	51	104	66	51	29	17	12	11
12	16	22	42	78	50	102	65	50	28	17	12	11
13	16	21	54	77	49	101	65	49	27	16	12	11
14	16	22	105	86	49	100	65	48	27	16	12	12
15	16	25	57	91	50	98	65	47	26	16	12	12
16	16	23	49	84	215	97	66	47	25	15	12	12
17	16	22	45	77	721	95	64	47	24	15	12	12
18	15	22	42	73	457	94	62	46	24	15	12	12
19	15	21	47	71	283	93	70	45	24	15	12	12
20	15	21	61	69	213	90	92	44	23	15	11	12
21	15	21	51	66	182	88	77	44	23	15	11	12
22	15	21	48	63	165	89	71	44	22	14	12	12
23	15	21	60	61	151	88	69	43	22	14	12	12
24	15	21	209	61	143	87	67	42	22	14	12	12
25	15	21	125	58	258	95	65	40	21	14	12	12
26	15	21	91	57	279	90	65	39	21	13	12	12
27	15	21	74	58	217	86	64	37	21	13	12	12
28	16	21	68	56	184	82	63	37	21	13	12	12
29	16	27	69	55	165	81	62	37	24	13	12	12
30	16	32	59	63	---	84	61	36	22	13	11	12
31	16	---	56	58	---	80	---	34	---	13	11	---
TOTAL	476	679	1870	2094	4438	3199	2056	1473	789	497	377	350
MEAN	15.4	22.6	60.3	67.5	153	103	68.5	47.5	26.3	16.0	12.2	11.7
MAX	16	46	209	96	721	168	92	60	34	21	13	12
MIN	15	16	29	49	49	80	61	34	21	13	11	11
AC-FT	944	1350	3710	4150	8800	6350	4080	2920	1560	986	748	694

KLAMATH RIVER BASIN

11525600 GRASS VALLEY CREEK AT FAWN LODGE, NEAR LEWISTON, CA—Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1976 - 2004, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	13.1	23.2	44.4	77.9	104	109	73.6	55.0	33.5	18.3	12.4	11.6
MAX	20.8	70.4	220	332	493	531	186	174	121	54.1	30.6	23.0
(WY)	1999	1985	1984	1995	1998	1983	1983	1983	1998	1998	1998	1983
MIN	6.94	8.88	8.20	10.2	9.10	13.8	12.3	15.1	9.64	5.85	4.95	6.50
(WY)	1992	1991	1991	1991	1991	1977	1977	1977	1977	1977	1977	1994

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1976 - 2004	
ANNUAL TOTAL	21239		18298			
ANNUAL MEAN	58.2		50.0		48.7	
HIGHEST ANNUAL MEAN					136	
LOWEST ANNUAL MEAN					10.2	
HIGHEST DAILY MEAN	389	Apr 29	721	Feb 17	2420	Mar 2 1983
LOWEST DAILY MEAN	15	Aug 31	11	Aug 20	3.8	Jul 29 1994
ANNUAL SEVEN-DAY MINIMUM	15	Sep 13	11	Sep 6	4.0	Jul 25 1994
MAXIMUM PEAK FLOW			1100	Feb 17	3500	Feb 28 1983
MAXIMUM PEAK STAGE			6.59	Feb 17	10.11	Feb 28 1983
ANNUAL RUNOFF (AC-FT)	42130		36290		35260	
10 PERCENT EXCEEDS	120		94		105	
50 PERCENT EXCEEDS	46		33		23	
90 PERCENT EXCEEDS	15		12		9.4	

11525600 GRASS VALLEY CREEK AT FAWN LODGE, NEAR LEWISTON, CA—Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.—Water years 1976 to current year.

WATER TEMPERATURE: Water years 1976–2002.

SEDIMENT DATA: Water years 1976–2002 (daily), water years 2003 to current year (storm season only).

PERIOD OF DAILY RECORD.—November 1975 to September 2002.

SUSPENDED-SEDIMENT DISCHARGE: November 1975 to September 2002.

REVISED RECORDS.—WDR CA-01-04: 2001 (monthly totals for the Summary of Water and Sediment Discharge).

REMARKS.—Zero bed load observed at flows less than 76 ft³/s. Record is collected for hydrologic and sediment-transport correlation studies with Grass Valley Creek near Lewiston (station 11525630).

EXTREMES FOR PERIOD OF DAILY RECORD.—

SEDIMENT CONCENTRATION (water years 1976–2002): Maximum daily mean, 9,550 mg/L, Mar. 2, 1983; minimum daily mean, 0 mg/L, several days in most years.

SEDIMENT LOAD (water years 1976–2002): Maximum daily, 65,200 tons, Mar. 2, 1983; minimum daily, 0 ton, several days in most years.

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Time	Instantaneous discharge, cfs (00061)	Temperature, water, deg C (00010)	Suspended sediment concentration mg/L (80154)	Suspended sediment load, tons/d (80155)	Suspended sediment, sieve diametr percent <.063mm (70331)	
NOV							
06...	0920	17	7.0	1	.05	--	
DEC							
05...	1400	32	8.0	2	.17	--	
24...	0925	313	6.0	122	103	21	
24...	0930	313	6.0	143	121	--	
JAN							
12...	0945	78	4.5	2	.42	--	
FEB							
06...	0915	55	5.0	2	.30	--	
17...	1000	719	7.0	1350	2620	20	
17...	1005	719	7.0	1660	3220	17	
17...	1010	719	7.0	1540	2980	--	
26...	0905	290	5.5	138	108	14	
26...	0910	290	5.5	189	148	10	
26...	0915	290	5.5	77	60	--	
MAR							
09...	0945	109	7.5	17	5.0	29	
09...	0950	109	7.5	19	5.6	--	
APR							
01...	0940	77	6.0	1	.21	--	
MAY							
04...	0955	60	11.5	2	.32	--	
Date		Suspnd. sediment, sieve diametr percent <.125mm (70332)	Suspnd. sediment, sieve diametr percent <.25mm (70333)	Suspnd. sediment, sieve diametr percent <.5 mm (70334)	Suspnd. sediment, sieve diametr percent <1 mm (70335)	Suspnd. sediment, sieve diametr percent <2 mm (70336)	Suspnd. sediment, sieve diametr percent <4mm (69314)
NOV							
06...		--	--	--	--	--	--
DEC							
05...		--	--	--	--	--	--
24...		31	46	68	86	100	--
24...		--	--	--	--	--	--
JAN							
12...		--	--	--	--	--	--
FEB							
06...		--	--	--	--	--	--
17...		27	37	52	71	89	100
17...		23	32	44	66	86	100
17...		--	--	--	--	--	--
26...		20	26	36	56	75	100
26...		14	19	26	40	70	100
26...		--	--	--	--	--	--
MAR							
09...		--	--	--	--	--	--
09...		--	--	--	--	--	--
APR							
01...		--	--	--	--	--	--
MAY							
04...		--	--	--	--	--	--

11525600 GRASS VALLEY CREEK AT FAWN LODGE, NEAR LEWISTON, CA—Continued

PARTICLE-SIZE DISTRIBUTION OF SURFACE BED MATERIAL, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Time	Number of sam-pling points, count (00063)	Instan-taneous dis-charge, cfs (00061)	Temper-ature, water, deg C (00010)	Bed sedi-ment, dry svd sve dia percent <.125mm (80165)	Bed sedi-ment, dry svd sve dia percent <.25mm (80166)	Bed sedi-ment, dry svd sve dia percent <.5 mm (80167)
APR							
01...	1000	1	77	6.0	1	2	6
01...	1005	1	77	6.0	--	--	--
01...	1010	1	77	6.0	--	--	1
MAY							
04...	1000	1	60	11.5	--	--	1
04...	1005	1	60	11.5	--	--	--
04...	1010	1	60	11.5	1	2	6

Date	Bed sedi-ment, dry svd sve dia percent <1 mm (80168)	Bed sedi-ment, dry svd sve dia percent <2 mm (80169)	Bed sedi-ment, dry svd sve dia percent <4 mm (80170)	Bed sedi-ment, dry svd sve dia percent <8 mm (80171)	Bed sedi-ment, dry svd sve dia percent <16 mm (80172)	Bed sedi-ment, dry svd sve dia percent <32 mm (80173)	Bed sedi-ment, dry svd sve dia percent <64 mm (80174)
APR							
01...	12	23	41	51	62	87	100
01...	1	2	6	10	18	33	100
01...	3	8	18	25	33	69	100
MAY							
04...	3	8	19	30	40	100	--
04...	1	3	5	6	34	84	100
04...	12	22	38	48	59	69	100

PARTICLE-SIZE DISTRIBUTION OF BEDLOAD, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Time	Sam-pling method, code (82398)	Sam-pler type, code (84164)	Bag mesh size, bedload sampler mm (30333)	Tether line used in sampling (yes=1) code (04117)	Startng time, 24 hour clock, hr:min (82073)	Ending time, 24 hour clock, hr:min (82074)	Rest time on bed for bed load sample, seconds (04120)	Hori-zontal width of verti-cal, feet (04121)
DEC									
24...	0950	1000	1100	.250	0	0945	0955	30	2.0
24...	1005	1000	1100	.250	0	1000	1015	30	2.0
FEB									
26...	0945	1000	1100	.250	0	0935	0955	30	2.0
26...	1000	1000	1100	.250	0	0955	1005	30	2.0
MAR									
09...	1000	1000	1120	.250	0	0955	1005	30	1.0
09...	1010	1000	1120	.250	0	1005	1015	30	1.0

Date	Compstd samples in x-sec bedload measmnt number (04118)	Verti-cals in com-posite sample, number (04119)	Number of sam-pling points, count (00063)	Loca-tion in X-sect. looking dwnstrm ft from bank (00009)	Instan-taneous dis-charge, cfs (00061)	Temper-ature, water, deg C (00010)	Bedload sedimnt dschrge average unit t/d/ft (04122)	Bedload sedi-ment dis-charge, tons/d (80225)
DEC								
24...	2	13	13	8.00	309	6.0	.16	3.5
24...	2	13	13	8.00	303	6.0	.11	3.5
FEB								
26...	2	12	12	10.0	285	5.5	.64	11
26...	2	12	12	10.0	282	5.5	.24	11
MAR								
09...	2	12	12	7.00	112	7.5	.05	1.3
09...	2	12	12	7.00	109	7.5	.17	1.3

11525600 GRASS VALLEY CREEK AT FAWN LODGE, NEAR LEWISTON, CA—Continued

PARTICLE-SIZE DISTRIBUTION OF BEDLOAD, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Bedload sedi- ment, sieve diametr percent <.25mm (80228)	Bedload sedi- ment, sieve diametr percent <.5 mm (80229)	Bedload sedi- ment, sieve diametr percent <1 mm (80230)	Bedload sedi- ment, sieve diametr percent <2 mm (80231)	Bedload sedi- ment, sieve diametr percent <4 mm (80232)	Bedload sedi- ment, sieve diametr percent <8 mm (80233)	Bedload sedi- ment, sieve diametr percent <16 mm (80234)	Bedload sedi- ment, sieve diametr percent <32 mm (80235)
DEC								
24...	7	29	51	73	94	100	--	--
24...	5	24	44	65	90	99	100	--
FEB								
26...	1	6	19	47	87	98	98	100
26...	2	7	19	49	88	99	100	--
MAR								
09...	1	5	17	42	85	100	--	--
09...	--	2	9	34	83	100	--	--

11525630 GRASS VALLEY CREEK NEAR LEWISTON, CA

LOCATION.—Lat 40°41'12", long 122°51'36", in NW 1/4 SW 1/4, sec.26, T.33 N., R.9 W., Trinity County, Hydrologic Unit 18010211, on right bank, 0.2 mi downstream from unnamed tributary, 0.5 mi upstream from the confluence with Trinity River, and 3.2 mi southwest of Lewiston.

DRAINAGE AREA.—36.8 mi².

PERIOD OF RECORD.—March 2003 to current year (storm season only).

SEDIMENT DATA: March 2003 to current year (storm season only).

REMARKS.—Zero bed load observed at flows less than 58 ft³/s. Record is collected for hydrologic and sediment-transport correlation studies with Grass Valley Creek at Fawn Lodge, near Lewiston (station 11525600).

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Time	Instantaneous discharge, cfs (00061)	Temperature, water, deg C (00010)	Suspended sediment concentration mg/L (80154)	Suspended sediment load, tons/d (80155)	Suspended sediment, sieve diameter percent <.063mm (70331)	
NOV							
06...	1045	15	7.0	1	.04	--	
DEC							
05...	1220	31	8.0	4	.33	--	
24...	1215	236	7.0	124	79	14	
24...	1220	236	7.0	96	61	--	
JAN							
12...	1120	90	5.0	3	.73	--	
FEB							
06...	1045	60	5.0	4	.65	--	
17...	1230	1050	7.0	926	2630	34	
17...	1235	1050	7.0	915	2590	34	
17...	1240	1050	7.0	893	2530	--	
26...	1115	350	5.5	59	56	42	
26...	1120	350	5.5	58	55	41	
26...	1125	350	5.5	48	45	--	
MAR							
09...	1145	112	8.0	7	2.1	65	
09...	1150	112	8.0	5	1.5	--	
APR							
01...	1130	76	8.0	3	.62	--	
MAY							
04...	1125	55	13.5	4	.59	--	
Date		Suspnd. sediment, sieve diameter percent <.125mm (70332)	Suspnd. sediment, sieve diameter percent <.25mm (70333)	Suspnd. sediment, sieve diameter percent <.5 mm (70334)	Suspnd. sediment, sieve diameter percent <1 mm (70335)	Suspnd. sediment, sieve diameter percent <2 mm (70336)	Suspnd. sediment, sieve diameter percent <4mm (69314)
NOV							
06...		--	--	--	--	--	--
DEC							
05...		--	--	--	--	--	--
24...	20	28	40	56	78	100	
24...		--	--	--	--	--	--
JAN							
12...		--	--	--	--	--	--
FEB							
06...		--	--	--	--	--	--
17...	43	57	72	86	94	100	
17...	47	61	78	92	100	--	
17...		--	--	--	--	--	--
26...	54	68	84	100	--	--	
26...	50	64	82	100	--	--	
26...		--	--	--	--	--	--
MAR							
09...		--	--	--	--	--	--
09...		--	--	--	--	--	--
APR							
01...		--	--	--	--	--	--
MAY							
04...		--	--	--	--	--	--

11525630 GRASS VALLEY CREEK NEAR LEWISTON, CA—Continued

PARTICLE-SIZE DISTRIBUTION OF SURFACE BED MATERIAL, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Time	Number of sam-pling points, count (00063)	Instan-taneous dis-charge, cfs (00061)	Temper-ature, water, deg C (00010)	Bed sedi-ment, dry svd sve dia <.125mm (80165)	Bed sedi-ment, dry svd sve dia <.25mm (80166)	Bed sedi-ment, dry svd sve dia <.5 mm (80167)
APR							
01...	1220	1	76	8.0	--	--	--
01...	1225	1	76	8.0	1	2	4
01...	1230	1	76	8.0	--	1	5
MAY							
04...	1135	1	55	13.5	--	--	--
04...	1140	1	55	13.5	--	--	2
04...	1145	1	55	13.5	--	1	4

Date	Bed sedi-ment, dry svd sve dia <1 mm (80168)	Bed sedi-ment, dry svd sve dia <2 mm (80169)	Bed sedi-ment, dry svd sve dia <4 mm (80170)	Bed sedi-ment, dry svd sve dia <8 mm (80171)	Bed sedi-ment, dry svd sve dia <16 mm (80172)	Bed sedi-ment, dry svd sve dia <32 mm (80173)	Bed sedi-ment, dry svd sve dia <64 mm (80174)
APR							
01...	1	6	18	24	29	54	100
01...	9	18	32	39	48	79	100
01...	15	28	38	44	48	75	100
MAY							
04...	2	7	14	18	22	46	100
04...	4	8	16	20	30	61	100
04...	10	24	39	45	54	100	--

PARTICLE-SIZE DISTRIBUTION OF BEDLOAD, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Time	Sam-pling method, code (82398)	Sam-pler type, code (84164)	Bag mesh size, bedload sampler mm (30333)	Tether line used in sam-pling (yes=1) code (04117)	Startng time, 24 hour clock, hr:min (82073)	Ending time, 24 hour clock, hr:min (82074)	Rest time on bed for bed load sample, seconds (04120)	Hori-zontal width of verti-cal, feet (04121)	Compstd samples in x-sec bedload measmnt number (04118)
DEC										
24...	1240	1000	1100	.250	0	1230	1245	30	1.0	2
24...	1300	1000	1100	.250	0	1250	1305	30	1.0	2
FEB										
26...	1145	1000	1100	.250	0	1140	1150	30	2.0	2
26...	1155	1000	1100	.250	0	1150	1200	30	2.0	2
APR										
01...	1145	1000	1120	.250	0	1140	1150	30	1.0	2
01...	1205	1000	1120	.250	0	1200	1210	30	1.0	2

Date	Verti-cals in com-posite sample, number (04119)	Number of sam-pling points, count (00063)	Loca-tion in X-sect. looking downstrm ft from l bank (00009)	Instan-taneous dis-charge, cfs (00061)	Temper-ature, water, deg C (00010)	Bedload sedimnt dschrge average unit t/d/ft (04122)	Bedload sedi-ment dis-charge, tons/d (80225)	Bedload sedi-ment, sieve diametr percent <.063mm (80226)	Bedload sedi-ment, sieve diametr percent <.125mm (80227)
DEC									
24...	14	14	4.00	228	7.0	.81	11	--	--
24...	14	14	4.00	228	7.0	.80	11	--	--
FEB									
26...	8	8	4.00	350	5.5	.02	.32	--	1
26...	8	8	4.00	350	5.5	.02	.32	1	2
APR									
01...	19	19	8.00	76	8.0	.06	1.0	--	--
01...	19	19	8.00	76	8.0	.05	1.0	--	--

11525630 GRASS VALLEY CREEK NEAR LEWISTON, CA—Continued

PARTICLE-SIZE DISTRIBUTION OF BEDLOAD, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Bedload sedi- ment, sieve diametr percent <.125mm (80227)	Bedload sedi- ment, sieve diametr percent <.25mm (80228)	Bedload sedi- ment, sieve diametr percent <.5 mm (80229)	Bedload sedi- ment, sieve diametr percent <1 mm (80230)	Bedload sedi- ment, sieve diametr percent <2 mm (80231)	Bedload sedi- ment, sieve diametr percent <4 mm (80232)	Bedload sedi- ment, sieve diametr percent <8 mm (80233)	Bedload sedi- ment, sieve diametr percent <16 mm (80234)
DEC								
24...	--	1	6	13	34	77	94	100
24...	--	1	7	25	67	96	100	--
FEB								
26...	1	21	62	81	89	96	100	--
26...	2	22	63	88	96	100	--	--
APR								
01...	--	--	5	27	75	98	100	--
01...	--	--	7	31	76	96	100	--

11525655 TRINITY RIVER BELOW LIMEKILN GULCH, NEAR DOUGLAS CITY, CA

LOCATION.—Lat 40°40'21", long 122°55'07", in SW 1/4 NW 1/4 sec.32, T.33 N., R.9 W., [Trinity County](#), Hydrologic Unit 18010211, on left bank, 1.8 mi northeast of Douglas City, 2.3 mi downstream from Limekiln Gulch, and 11.3 mi downstream from Lewiston diversion dam.

DRAINAGE AREA.—812 mi².

PERIOD OF RECORD.—April 1981 to September 1991, October 2002 to current year.

WATER TEMPERATURE: Water years 1981–91.

SEDIMENT DATA: Water years 1981–91.

GAGE.—Water-stage recorder and crest-stage gage. Datum of gage is 1,650 ft above NGVD of 1929.

REMARKS.—Flow regulated by Trinity Lake (station 11525400) and transbasin diversion to Judge Francis Carr powerplant (station 11525430). Small diversion for irrigation upstream from station. See schematic diagram of [Klamath River and Trinity River Basins](#).

COOPERATION.—Records were collected by Hoopa Valley Tribal Fisheries, under general supervision of the U.S. Geological Survey.

EXTREMES FOR PERIOD OF RECORD.—Maximum discharge, 8,070 ft³/s, June 12, 1983, gage height, 10.45 ft; minimum daily, 228 ft³/s, June 15, 1990.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	441	290	398	493	459	2710	461	438	4410	2160	451	1430
2	447	300	389	485	490	2660	453	455	4100	2120	458	1430
3	451	304	361	451	501	2590	445	467	3690	2140	460	1390
4	451	299	358	427	488	2530	454	458	3520	2130	454	1400
5	445	300	418	411	470	2500	463	1080	3200	2130	454	1290
6	446	302	663	409	471	2460	460	2590	3190	2130	455	1250
7	460	304	481	422	462	2450	459	2840	3160	2110	453	1210
8	466	331	380	441	444	2420	456	2670	3140	2090	451	1250
9	461	388	358	668	434	2460	454	2660	2930	2090	453	1210
10	468	332	364	696	434	2450	455	2770	2870	1760	455	1200
11	467	307	358	600	427	2420	453	2740	2710	1570	453	1140
12	469	301	392	554	418	2110	457	3000	2690	1370	451	930
13	465	301	500	540	414	1660	452	3260	2520	1160	452	603
14	466	300	796	570	416	1270	440	4020	2490	1090	459	467
15	469	320	465	609	426	855	438	4890	2440	977	474	477
16	349	321	399	561	924	572	421	6480	2260	888	466	478
17	301	317	388	521	2720	523	400	6430	2090	762	491	479
18	301	325	372	488	2500	523	393	6280	2060	685	548	481
19	299	327	385	467	1720	527	403	6170	2040	594	419	486
20	299	325	467	452	2550	515	455	6080	2070	540	401	484
21	299	326	419	435	2660	505	430	6080	2120	519	398	489
22	298	327	393	439	2590	521	416	6090	2120	468	427	498
23	294	326	407	432	2540	527	406	6120	2120	453	1610	488
24	282	325	717	441	2510	504	405	6110	2110	454	1720	464
25	284	322	585	421	2820	517	415	6100	2110	453	1660	462
26	284	323	489	420	3050	485	436	5790	2120	455	1620	461
27	281	327	444	446	2880	479	466	5510	2120	457	1650	465
28	278	328	425	442	2700	466	470	5260	2110	457	1600	468
29	284	367	442	445	2600	464	437	4830	2130	454	1570	470
30	285	398	399	477	---	495	429	4690	2170	451	1530	471
31	290	---	389	474	---	480	---	4640	---	451	1530	---
TOTAL	11580	9663	13801	15137	41518	41648	13182	126998	78810	35568	24473	23821
MEAN	374	322	445	488	1432	1343	439	4097	2627	1147	789	794
MAX	469	398	796	696	3050	2710	470	6480	4410	2160	1720	1430
MIN	278	290	358	409	414	464	393	438	2040	451	398	461
AC-FT	22970	19170	27370	30020	82350	82610	26150	251900	156300	70550	48540	47250

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1981 - 2004, BY WATER YEAR (WY)

	342	425	754	739	816	1359	741	1237	1084	657	496	435
MEAN	374	1002	2670	3001	2449	6446	3109	4097	4644	1147	789	802
(WY)	2004	1984	1984	1984	1983	1983	1983	2004	1983	2004	2004	2003
MIN	304	318	318	315	320	371	381	361	338	323	310	303
(WY)	1989	2003	1991	1991	1991	1985	1990	1985	1990	1988	1988	1988

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR	FOR 2004 WATER YEAR	WATER YEARS 1981 - 2004
ANNUAL TOTAL	320729	436199	
ANNUAL MEAN	879	1192	769
HIGHEST ANNUAL MEAN			2022
LOWEST ANNUAL MEAN			371
HIGHEST DAILY MEAN	2910	May 2	8020
LOWEST DAILY MEAN	278	Oct 28	228
ANNUAL SEVEN-DAY MINIMUM	283	Oct 24	237
MAXIMUM PEAK FLOW		6570	8070
MAXIMUM PEAK STAGE		9.27	10.45
ANNUAL RUNOFF (AC-FT)	636200	865200	557400
10 PERCENT EXCEEDS	2060	2730	1650
50 PERCENT EXCEEDS	506	470	437
90 PERCENT EXCEEDS	327	327	318

11525854 TRINITY RIVER AT DOUGLAS CITY, CA

LOCATION.—Lat 40°38'50", long 122°57'17", in SW 1/4 NW 1/4 sec.12, T.32 N., R.10 W., Trinity County, Hydrologic Unit 18010211, on right bank, 0.5 mi downstream of Reading Creek, 1.4 mi downstream from Weaver Creek, and 0.75 mi southwest of Douglas City.

DRAINAGE AREA.—931 mi².

PERIOD OF RECORD.—October 2002 to current year.

GAGE.—Water-stage recorder and crest-stage gage. Datum of gage is 1,597 ft above NGVD of 1929.

REMARKS.—Flow regulated by Trinity Lake (station 11525400) and transbasin diversion to Judge Francis Carr powerplant (station 11525430). Small diversion for irrigation upstream from station. See schematic diagram of [Klamath River and Trinity River Basins](#).

COOPERATION.—Records were collected by Hoopa Valley Tribal Fisheries, under general supervision of the U.S. Geological Survey.

EXTREMES FOR PERIOD OF RECORD.—Maximum discharge, 9,540 ft³/s, Feb. 17, 2004, gage height, 10.56 ft; minimum daily, 277 ft³/s, Nov. 26, 2002.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	444	300	489	869	683	3100	673	599	4500	1940	467	1260
2	446	307	477	784	778	2950	659	614	4130	1890	472	1250
3	449	324	417	665	812	2750	648	630	3620	1910	475	1220
4	451	314	404	614	756	2660	655	627	3400	1910	470	1240
5	446	315	476	584	706	2580	661	997	2990	1900	469	1150
6	442	317	906	576	701	2520	658	2330	2950	1890	472	1100
7	461	321	714	628	694	2490	655	2600	2930	1880	469	1070
8	464	373	533	855	656	2490	649	2500	2910	1870	467	1090
9	462	469	484	1370	633	2520	648	2460	2690	1870	467	1070
10	466	382	494	1280	620	2530	646	2560	2610	1590	469	1060
11	468	337	487	1040	603	2490	642	2530	2470	1410	466	1010
12	469	325	585	934	590	2200	643	2760	2440	1240	465	854
13	468	321	852	909	581	1810	641	3040	2280	1050	464	584
14	468	320	1510	973	584	1470	626	3770	2260	990	468	456
15	470	350	728	1040	604	1130	620	4730	2210	898	485	459
16	381	350	587	934	2210	894	610	6290	2050	822	478	461
17	309	343	541	842	6760	837	581	6330	1900	725	489	462
18	309	347	506	765	4770	850	568	6180	1860	660	554	464
19	308	346	535	721	2580	829	588	6070	1850	601	443	468
20	307	343	763	689	2910	795	658	5930	1860	558	424	468
21	308	343	634	654	2890	777	625	6070	1910	535	421	470
22	306	343	572	635	2720	792	599	5990	1900	500	427	476
23	305	341	577	619	2600	803	582	6050	1910	480	1330	470
24	293	339	1390	642	2570	768	577	6070	1890	479	1490	447
25	294	335	985	606	3340	803	582	6060	1890	478	1450	446
26	295	335	758	596	4030	749	601	5770	1890	476	1400	445
27	292	338	654	647	3440	718	630	5570	1900	476	1430	448
28	288	340	609	662	2980	692	640	5380	1890	475	1390	449
29	292	391	631	676	2760	683	605	4970	1910	472	1370	449
30	294	463	571	754	---	719	592	4790	1930	468	1340	451
31	298	---	558	723	---	699	---	4730	---	468	1340	---
TOTAL	11753	10372	20427	24286	56561	48098	18762	124997	72930	32911	22821	21747
MEAN	379	346	659	783	1950	1552	625	4032	2431	1062	736	725
MAX	470	469	1510	1370	6760	3100	673	6330	4500	1940	1490	1260
MIN	288	300	404	576	581	683	568	599	1850	468	421	445
AC-FT	23310	20570	40520	48170	112200	95400	37210	247900	144700	65280	45270	43140

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2003 - 2004, BY WATER YEAR (WY)

	2003	2004	2003	2004	2003	2004	2003	2004	2003	2004	2003	2004
MEAN	381	346	787	953	1297	1127	740	3373	2218	1081	717	750
MAX	382	346	916	1123	1950	1552	854	4032	2431	1101	736	775
(WY)	2003	2003	2003	2003	2004	2004	2003	2004	2004	2003	2004	2003
MIN	379	346	659	783	621	702	625	2714	2006	1062	697	725
(WY)	2004	2004	2004	2004	2003	2003	2004	2003	2003	2004	2003	2004

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR	FOR 2004 WATER YEAR	WATER YEARS 2003 - 2004
ANNUAL TOTAL	365456	465665	
ANNUAL MEAN	1001	1272	1148
HIGHEST ANNUAL MEAN			1272
LOWEST ANNUAL MEAN			1023
HIGHEST DAILY MEAN	3340	May 2	6760
LOWEST DAILY MEAN	288	Oct 28	277
ANNUAL SEVEN-DAY MINIMUM	293	Oct 24	285
MAXIMUM PEAK FLOW		9540	Feb 17
MAXIMUM PEAK STAGE		10.56	Feb 17
ANNUAL RUNOFF (AC-FT)	724900	923600	831700
10 PERCENT EXCEEDS	2180	2900	2560
50 PERCENT EXCEEDS	688	656	663
90 PERCENT EXCEEDS	345	345	341

11526250 TRINITY RIVER AT JUNCTION CITY, CA

LOCATION.—Lat 40°43'43", long 123°03'39", in NE 1/4 SW 1/4 sec.12, T.33 N., R.11 W., [Trinity County](#), Hydrologic Unit 18010211, on left bank, 1.3 mi downstream of Oregon Gulch, 0.4 mi upstream of Canyon Creek, and 0.5 mi southwest of Junction City.

DRAINAGE AREA.—1,057 mi².

PERIOD OF RECORD.—October 2002 to current year.

GAGE.—Water-stage recorder. Datum of gage is 1,445 ft above NGVD of 1988.

REMARKS.—Flow regulated by Trinity Lake (station 11525400) and transbasin diversion to Judge Francis Carr powerplant (station 11525430). Small diversion for irrigation upstream from station. See schematic diagram of [Klamath River and Trinity River Basins](#).

COOPERATION.—Records were collected by Hoopa Valley Tribal Fisheries, under general supervision of the U.S. Geological Survey.

EXTREMES FOR PERIOD OF RECORD.—Maximum discharge, 14,900 ft³/s, Feb. 17, 2004, gage height, 13.34 ft; minimum daily, 288 ft³/s, Oct. 27, 2003.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	454	303	589	1220	1070	4310	883	698	4620	2180	496	1390
2	456	310	624	1260	1150	4140	854	709	4340	2110	503	1360
3	459	345	508	1030	1240	3870	826	722	3900	2130	506	1340
4	460	e344	472	897	1180	3690	826	724	3710	2130	502	1350
5	456	e338	573	832	1110	3530	829	962	3350	2120	500	1270
6	452	e338	1190	839	1080	3420	821	2560	3260	2110	502	1200
7	468	e345	1120	885	1080	3340	814	2920	3240	2090	501	1170
8	473	e415	727	1140	1000	3320	799	2830	3210	2090	498	1180
9	472	e515	618	2190	952	3370	794	2780	3030	2090	496	1180
10	474	e452	625	2320	914	3400	786	2910	2920	1820	498	1140
11	479	e386	620	1900	881	3310	774	2890	2790	1590	495	1110
12	480	e363	700	1680	855	3020	770	3040	2730	1390	493	969
13	480	e356	1190	1570	837	2570	768	3370	2600	1180	491	663
14	480	343	2470	1650	847	2140	754	3900	2530	1090	493	490
15	482	380	1240	1880	869	1730	747	4920	2480	986	510	486
16	419	390	897	1680	3350	1380	751	6160	2320	897	508	483
17	318	378	758	1470	10100	1240	714	6390	2160	798	501	484
18	314	377	677	1300	8840	1210	694	6200	2080	714	594	486
19	311	378	669	1220	4850	1200	714	6160	2060	651	486	489
20	308	371	1070	1160	4450	1120	886	6080	2070	602	451	494
21	309	371	916	1070	4300	1080	835	6070	2130	567	449	494
22	309	368	802	987	4010	1090	777	6070	2110	544	449	501
23	310	366	768	949	3780	1100	740	6090	2120	509	1280	500
24	294	364	2110	977	3660	1050	718	6070	2110	506	1650	473
25	295	359	1730	921	4460	1090	712	6060	2100	505	1640	468
26	295	358	1220	875	5550	1060	720	5840	2110	503	1570	469
27	288	359	1030	950	5020	988	745	5590	2110	503	1600	470
28	294	363	964	976	4400	941	769	5380	2100	502	1550	472
29	330	415	945	1010	4050	917	719	5060	2130	499	1520	471
30	301	549	804	1130	---	945	700	4850	2160	497	1480	473
31	297	---	781	1140	---	926	---	4750	---	497	1480	---
TOTAL	12017	11299	29407	39108	85885	66497	23239	128755	80580	36400	24692	23525
MEAN	388	377	949	1262	2962	2145	775	4153	2686	1174	797	784
MAX	482	549	2470	2320	10100	4310	886	6390	4620	2180	1650	1390
MIN	288	303	472	832	837	917	694	698	2060	497	449	468
AC-FT	23840	22410	58330	77570	170400	131900	46090	255400	159800	72200	48980	46660

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2003 - 2004, BY WATER YEAR (WY)

	2003	2004	2003	2004	2003	2004	2003	2004	2003	2004	2003	2004
MEAN	380	376	1198	1629	1966	1574	1048	3624	2402	1160	763	807
MAX	388	377	1448	1997	2962	2145	1322	4153	2686	1174	797	830
(WY)	2004	2004	2003	2003	2004	2004	2003	2004	2004	2004	2004	2003
MIN	372	375	949	1262	936	1003	775	3095	2118	1145	729	784
(WY)	2003	2003	2004	2004	2003	2003	2004	2003	2003	2003	2003	2004

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 2003 - 2004	
ANNUAL TOTAL	454054		561404			
ANNUAL MEAN	1244		1534		1410	
HIGHEST ANNUAL MEAN					1534	
LOWEST ANNUAL MEAN					1285	
HIGHEST DAILY MEAN	5210	Jan 13	10100	Feb 17	10100	Feb 17 2004
LOWEST DAILY MEAN	288	Oct 27	288	Oct 27	288	Oct 27 2003
ANNUAL SEVEN-DAY MINIMUM	298	Oct 22	298	Oct 22	298	Oct 22 2003
MAXIMUM PEAK FLOW			14900	Feb 17	14900	Feb 17 2004
MAXIMUM PEAK STAGE			13.34	Feb 17	13.34	Feb 17 2004
ANNUAL RUNOFF (AC-FT)	900600		1114000		1021000	
10 PERCENT EXCEEDS	2450		3730		3210	
50 PERCENT EXCEEDS	964		924		952	
90 PERCENT EXCEEDS	378		378		363	

e Estimated.

11527000 TRINITY RIVER NEAR BURNT RANCH, CA

LOCATION.—Lat 40°47'20", long 123°26'20", in S 1/2 sec.19, T.5 N., R.7 E., Trinity County, Hydrologic Unit 18010211, Trinity National Forest, on left bank, 500 ft upstream from Cedar Flat Creek, 700 ft upstream from highway bridge at Cedar Flat, and 2.3 mi southeast of town of Burnt Ranch.

DRAINAGE AREA.—1,439 mi².

PERIOD OF RECORD.—October 1931 to September 1940, October 1956 to current year. Monthly discharge only for some periods, published in WSP 1315-B.

CHEMICAL ANALYSES: Water years 1959–66.

WATER TEMPERATURE: Water years 1962–64, 1967, 1969–83.

SEDIMENT DATA: Water year 1968 (partial-record station).

REVISED RECORDS.—WDR CA-78-2: 1975(M). WSP 1929: Drainage area.

GAGE.—Water-stage recorder and crest-stage gage. Datum of gage is 944.05 ft above NGVD of 1929. Oct. 1, 1931, to Jan. 19, 1940, at site 2 mi upstream at different datum.

REMARKS.—Records excellent. Flow regulated since November 1960 by Trinity Lake (station 11525400), 64 mi upstream, and by transbasin diversion to Judge Francis Carr Powerplant (station 11525430) since April 1963. Small diversions upstream from station for irrigation. See schematic diagram of [Klamath River and Trinity River Basins](#).

EXTREMES FOR PERIOD OF RECORD.—Maximum discharge, 81,500 ft³/s, Feb. 25, 1958, gage height, 30.50 ft, from rating curve extended above 40,000 ft³/s, on basis of slope-area measurement at gage height 43.2 ft; minimum daily, 93 ft³/s, Sept. 13, 1939.

EXTREMES OUTSIDE PERIOD OF RECORD.—Flood of Dec. 22, 1955, reached a stage of 43.2 ft, from floodmarks, discharge, 172,000 ft³/s, on basis of slope-area measurement of peak flow.

EXTREMES FOR CURRENT YEAR.—Peak discharges greater than base discharge of 12,000 ft³/s, or maximum:

Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Feb. 17	2315	29,500	18.31

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	481	367	1070	1860	2360	6080	2220	1850	5190	2550	592	1420
2	482	378	1050	2410	2360	5990	2080	1960	4990	2350	592	1360
3	486	416	836	1860	2470	5600	2000	2060	4640	2360	594	1350
4	488	403	744	1580	2370	5290	2060	2110	4460	2340	589	1340
5	485	402	1100	1420	2210	5050	2150	1940	4120	2350	582	1310
6	481	402	2910	1340	2110	4890	2170	3140	3850	2340	582	1210
7	484	415	2770	1400	2110	4790	2110	3920	3790	2330	582	1190
8	491	466	1580	1720	1960	5090	2070	3840	3610	2260	577	1160
9	494	646	1180	3710	1850	5400	2080	3580	3420	2220	570	1190
10	492	632	1090	4450	1760	5630	2070	3610	3220	2080	568	1150
11	500	501	1070	3690	1690	5410	2040	3560	3150	1820	566	1130
12	501	460	1130	3240	1660	5170	2030	3510	3070	1650	563	1090
13	502	444	2630	3250	1630	4820	2040	3900	3020	1440	559	811
14	502	439	5460	3510	1640	4450	1900	4120	2950	1300	558	584
15	500	479	3060	4100	1660	4160	1790	5430	2890	1200	563	538
16	502	521	2000	3660	3970	3820	1720	6340	2810	1100	570	532
17	404	548	1560	3120	17900	3550	1620	6790	2710	1030	563	532
18	379	537	1340	2720	18600	3550	1510	6630	2550	929	604	534
19	376	509	1240	2530	9420	3450	1490	6570	2540	872	603	537
20	373	513	1890	2400	7450	3050	1760	6490	2420	810	520	544
21	372	523	1820	2200	6690	2920	1920	6500	2490	752	510	544
22	371	493	1550	2010	6020	2990	1840	6510	2510	728	507	546
23	370	476	1420	1880	5540	3130	1730	6520	2540	666	840	547
24	368	468	3320	2000	5240	2860	1730	6490	2530	654	1590	534
25	362	463	3620	1930	6050	2710	1800	6460	2430	648	1650	519
26	360	459	2560	1820	8210	2580	1970	6370	2380	638	1570	516
27	361	454	1980	1910	7970	2340	2190	6300	2350	630	1590	515
28	358	454	1670	1900	6790	2240	2270	6080	2360	620	1560	516
29	357	519	1740	1960	6040	2280	1950	5680	2460	614	1530	515
30	357	1080	1480	2330	---	2570	1820	5320	2440	606	1490	517
31	363	---	1360	2530	---	2450	---	5260	---	599	1470	---
TOTAL	13402	14867	58230	76440	145730	124310	58130	148840	93890	42486	25804	24781
MEAN	432	496	1878	2466	5025	4010	1938	4801	3130	1371	832	826
MAX	502	1080	5460	4450	18600	6080	2270	6790	5190	2550	1650	1420
MIN	357	367	744	1340	1630	2240	1490	1850	2350	599	507	515
AC-FT	26580	29490	115500	151600	289100	246600	115300	295200	186200	84270	51180	49150

11527000 TRINITY RIVER NEAR BURNT RANCH, CA—Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1932 - 1960, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	499	1192	1654	2936	5702	5569	5831	5674	3161	878	305	241
MAX	2732	4893	6426	6192	24270	10110	10090	11840	7076	2362	835	497
(WY)	1958	1938	1938	1958	1958	1938	1938	1958	1958	1958	1958	1958
MIN	138	209	253	311	831	2487	3319	1955	808	273	123	111
(WY)	1933	1937	1937	1937	1937	1935	1932	1939	1934	1934	1939	1932

SUMMARY STATISTICS

WATER YEARS 1932 - 1960

ANNUAL MEAN	2784
HIGHEST ANNUAL MEAN	6557 1958
LOWEST ANNUAL MEAN	1409 1939
HIGHEST DAILY MEAN	65600 Feb 19 1958
LOWEST DAILY MEAN	93 Sep 13 1939
ANNUAL SEVEN-DAY MINIMUM	95 Oct 1 1931
MAXIMUM PEAK FLOW	81500 Feb 25 1958
MAXIMUM PEAK STAGE	30.50 Feb 25 1958
ANNUAL RUNOFF (AC-FT)	2017000
10 PERCENT EXCEEDS	7120
50 PERCENT EXCEEDS	1240
90 PERCENT EXCEEDS	198

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1964 - 2004, BY WATER YEAR (WY)

MEAN	484	1055	2160	3307	3242	3406	2470	2406	1650	776	501	465
MAX	804	3570	8745	12220	10190	13770	8146	6343	7006	1988	1087	858
(WY)	1980	1974	1965	1997	1983	1983	1974	1983	1983	1998	1983	2003
MIN	298	375	274	322	373	512	530	547	449	200	189	230
(WY)	1965	1977	1977	1977	1977	1977	1977	1977	1977	1977	1977	1964

SUMMARY STATISTICS

FOR 2003 CALENDAR YEAR

FOR 2004 WATER YEAR

WATER YEARS 1964 - 2004

ANNUAL TOTAL	782255	826910	
ANNUAL MEAN	2143	2259	1821
HIGHEST ANNUAL MEAN			4816 1983
LOWEST ANNUAL MEAN			372 1977
HIGHEST DAILY MEAN	10800 Jan 14	18600 Feb 18	53300 Jan 1 1997
LOWEST DAILY MEAN	357 Oct 29	357 Oct 29	165 Aug 24 1966
ANNUAL SEVEN-DAY MINIMUM	360 Oct 25	360 Oct 25	170 Aug 21 1966
MAXIMUM PEAK FLOW		29500 Feb 17	78100 Dec 22 1964
MAXIMUM PEAK STAGE		18.31 Feb 17	29.82 Dec 22 1964
ANNUAL RUNOFF (AC-FT)	1552000	1640000	1319000
10 PERCENT EXCEEDS	4560	5270	3940
50 PERCENT EXCEEDS	1730	1820	1010
90 PERCENT EXCEEDS	480	483	367

11528700 SOUTH FORK TRINITY RIVER BELOW HYAMPOM, CA

LOCATION.—Lat 40°39'00", long 123°29'35", in NW 1/4 SW 1/4 sec.10, T.3 N., R.6 E., Trinity County, Hydrologic Unit 18010212, Trinity National Forest, on left bank, 0.3 mi downstream from Big Creek, 3.0 mi northwest of Hyampom, and 3.5 mi downstream from Hayfork Creek.

DRAINAGE AREA.—764 mi².

PERIOD OF RECORD.—October 1965 to current year.

CHEMICAL ANALYSES: Water year 1977.

WATER TEMPERATURE: Water years 1966–79, 1981–82.

SEDIMENT DATA: Water years 1967–70, 1981–82.

GAGE.—Water-stage recorder and crest-stage gage. Datum of gage is 1,211.37 ft above NGVD of 1929. Oct. 1, 1965, to Aug. 24, 2000, at datum 3.00 ft higher.

REMARKS.—Records good. No regulation or diversion upstream from station. See schematic diagram of [Klamath River and Trinity River Basins](#).

EXTREMES FOR PERIOD OF RECORD.—Maximum discharge, 75,000 ft³/s, Feb. 17, 1986, gage height, 28.47 ft, present datum, from rating curve extended above 15,000 ft³/s, on basis of slope-area measurement of peak flow, maximum gage height, 31.00 ft, Jan. 26, 1983, present datum; minimum daily, 12 ft³/s, Aug. 19, 20, 2001.

EXTREMES OUTSIDE PERIOD OF RECORD.—Flood of Dec. 22, 1964, reached a stage of 33.45 ft, present datum, from floodmarks, discharge, 88,000 ft³/s, on basis of flood-routing study.

EXTREMES FOR CURRENT YEAR.—Peak discharges greater than base discharge of 8,600 ft³/s, or maximum:

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Dec. 14	0645	9,960	12.59	Feb. 26	1300	9,860	12.28
Feb. 17	2015	42,400	23.41				

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	65	74	831	3550	2630	4810	1770	933	403	167	67	45
2	66	81	1010	3620	2890	4550	1680	906	391	162	70	44
3	67	100	659	2610	3190	4090	1620	884	379	156	74	44
4	69	104	483	2110	3000	3690	1580	867	365	149	73	43
5	69	114	735	1830	2730	3420	1550	849	352	139	70	43
6	68	118	2900	1750	2590	3240	1510	820	343	132	68	43
7	63	125	3420	1890	2540	3160	1460	813	339	124	67	43
8	62	187	1940	2800	2320	3430	1410	820	335	119	68	42
9	63	342	1420	6190	2160	3740	1370	776	330	115	65	41
10	66	461	1290	6470	2020	3820	1330	745	325	113	62	41
11	70	329	1400	4840	1900	3490	1300	725	313	110	59	40
12	73	242	1700	4190	1830	3250	1270	697	304	107	56	40
13	74	201	5850	4320	1820	3090	1250	670	294	103	53	42
14	72	182	7680	4480	1810	2960	1260	644	284	100	51	42
15	71	238	3940	5010	1800	2860	1300	623	272	96	50	43
16	71	318	2470	4360	7190	2770	1230	609	261	92	49	43
17	73	296	1800	3670	30000	2670	1220	596	251	90	48	45
18	75	261	1460	3190	24600	2580	1170	605	239	86	49	46
19	76	231	1350	2990	12100	2480	1160	584	231	87	48	47
20	74	211	2920	2860	8550	2280	1290	575	222	85	47	51
21	72	195	2450	2590	6440	2190	1450	568	214	84	45	54
22	70	180	1940	2300	4970	2150	1380	540	208	80	45	54
23	71	171	1760	2110	4220	2090	1260	519	201	87	47	53
24	70	166	3900	2360	3870	1980	1190	505	196	95	51	52
25	71	167	4200	2270	5370	2060	1140	488	188	89	53	51
26	73	168	3020	2090	9070	2220	1100	472	182	85	56	49
27	73	166	2290	2480	7840	2180	1070	461	176	81	57	49
28	74	163	1900	3010	5870	2100	1040	464	174	78	56	48
29	75	208	2820	2740	4980	2010	1000	455	171	74	53	48
30	72	515	2770	2930	---	1990	966	438	170	72	51	48
31	71	---	2240	2860	---	1880	---	420	---	69	48	---
TOTAL	2179	6314	74548	100470	170300	89230	39326	20071	8113	3226	1756	1374
MEAN	70.3	210	2405	3241	5872	2878	1311	647	270	104	56.6	45.8
MAX	76	515	7680	6470	30000	4810	1770	933	403	167	74	54
MIN	62	74	483	1750	1800	1880	966	420	170	69	45	40
AC-FT	4320	12520	147900	199300	337800	177000	78000	39810	16090	6400	3480	2730

11528700 SOUTH FORK TRINITY RIVER BELOW HYAMPOM, CA—Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1966 - 2004, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	116	682	2037	3595	3472	3306	1878	1022	458	178	88.0	73.4
MAX	351	3475	8338	11740	12770	9027	4989	2701	1660	406	227	185
(WY)	1980	1974	1997	1970	1986	1995	1982	1983	1993	1998	1983	1983
MIN	27.4	72.9	86.8	144	218	365	224	199	91.1	33.0	16.1	17.0
(WY)	1988	1988	1977	1977	1977	1977	1977	1977	1977	1977	2001	2001

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1966 - 2004	
ANNUAL TOTAL	572006		516907			
ANNUAL MEAN	1567		1412		1400	
HIGHEST ANNUAL MEAN					3049	
LOWEST ANNUAL MEAN					131	
HIGHEST DAILY MEAN	13300	Jan 13	30000	Feb 17	59200	Jan 16 1974
LOWEST DAILY MEAN	62	Oct 8	40	Sep 11	12	Aug 19 2001
ANNUAL SEVEN-DAY MINIMUM	66	Sep 27	41	Sep 8	13	Aug 16 2001
MAXIMUM PEAK FLOW			42400	Feb 17	75000	Feb 17 1986
MAXIMUM PEAK STAGE			23.41	Feb 17	31.00	Jan 26 1983
ANNUAL RUNOFF (AC-FT)	1135000		1025000		1014000	
10 PERCENT EXCEEDS	4200		3510		3550	
50 PERCENT EXCEEDS	831		446		406	
90 PERCENT EXCEEDS	74		51		64	

11530000 TRINITY RIVER AT HOOPA, CA

LOCATION.—Lat 41°03'00", long 123°40'15", in SE 1/4 NW 1/4 sec.25, T.8 N., R.4 E., **Humboldt County**, Hydrologic Unit 18010211, in Hoopa Valley Indian Reservation, on left bank, 0.1 mi upstream from Supply Creek, 0.1 mi downstream from Hospital Creek, and in the town of Hoopa.

DRAINAGE AREA.—2,853 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.—October 1911 to January 1914, October 1916 to September 1918, October 1931 to current year. Monthly discharge only for some periods, published in WSP 1315-B. Published as "near Hoopa" 1931–60.

REVISED RECORDS.—WSP 1565: 1913. WDR CA-77-2: Drainage area.

GAGE.—Water-stage recorder and crest-stage gage. Datum of gage is 274.82 ft above NGVD of 1929. Prior to October 1931, nonrecording gage at site 0.4 mi upstream at different datum. October 1931 to Dec. 22, 1964, water-stage recorder at site 2.5 mi upstream at datum 31.67 ft higher.

REMARKS.—Records good. Flow regulated since November 1960 by Trinity Lake (station 11525400) 84 mi upstream, and by transbasin diversion to Judge Francis Carr Powerplant (station 11525430) since April 1963. Small diversions upstream from station for irrigation. See schematic diagram of [Klamath River and Trinity River Basins](#).

EXTREMES FOR PERIOD OF RECORD.—Maximum discharge, 231,000 ft³/s, Dec. 22, 1964, gage height, 57.0 ft, present site and datum, from floodmarks, from rating curve extended above 123,000 ft³/s; minimum daily, 162 ft³/s, Oct. 4, 1931.

EXTREMES FOR CURRENT YEAR.—Peak discharges greater than base discharge of 30,000 ft³/s, or maximum:

Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Feb. 18	0045	78,400	35.61

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	707	580	2560	8570	8110	15300	5820	4030	5950	2940	840	1560
2	707	598	3000	10900	8140	14800	5460	4100	5750	2840	838	1470
3	713	668	2420	7950	8900	13300	5210	4160	5420	2780	837	1470
4	717	682	1890	6640	8410	12200	5150	4180	5150	2760	841	1440
5	712	675	2130	5860	7800	11200	5170	3970	4830	2750	829	1450
6	708	675	5910	5330	7430	10600	5170	4470	4470	2730	828	1360
7	703	685	9020	5620	7380	10100	5020	5470	4390	2720	830	1320
8	716	802	5520	6390	6960	10800	4900	5540	4240	2650	824	1290
9	717	1140	3870	12900	6630	11900	4830	5150	4080	2590	805	1310
10	721	1390	3440	16300	6310	12500	4780	5060	3830	2540	785	1290
11	729	1180	3700	13100	6080	11700	4700	4990	3770	2230	778	1280
12	744	940	4750	11000	5890	11000	4620	4840	3670	2040	769	1240
13	745	840	15100	11200	5740	10300	4560	5080	3630	1840	761	1110
14	738	800	20000	11800	5730	9580	4490	5230	3530	1640	748	880
15	737	934	12000	13700	5630	9110	4460	6210	3470	1560	743	725
16	742	1100	7580	12300	10200	8580	4260	6920	3420	1440	754	713
17	705	1250	5930	10300	51100	8150	4100	7550	3300	1350	752	708
18	618	1170	4930	9010	62200	8000	3880	7480	3110	1250	746	725
19	607	1020	4450	8350	35100	7790	3790	7390	3090	1210	821	743
20	601	974	6440	7980	24800	7260	4180	7300	2980	1140	728	748
21	595	977	6680	7480	19800	6940	5450	7300	2970	1080	685	752
22	595	919	5640	6920	16400	6900	5400	7250	3020	1030	678	749
23	590	868	5000	6540	14200	6980	4820	7230	3030	980	692	750
24	590	841	7950	7490	12700	6690	4560	7190	3020	936	1550	742
25	583	832	11600	7320	14500	6530	4480	7140	2920	923	1750	722
26	579	853	8340	6870	24400	6790	4570	7080	2860	906	1730	712
27	574	849	6780	7810	24600	6640	4760	7010	2830	890	1700	708
28	572	829	5950	8940	19300	6400	4790	6910	2820	878	1700	705
29	572	1060	7910	8230	16100	6290	4410	6590	2900	866	1640	709
30	564	2080	7890	8780	---	6440	4110	6130	2900	857	1610	710
31	567	---	6490	9330	---	6260	---	6040	---	848	1570	---
TOTAL	20468	28211	204870	280910	450540	287030	141900	184990	111350	53194	31162	30091
MEAN	660	940	6609	9062	15540	9259	4730	5967	3712	1716	1005	1003
MAX	745	2080	20000	16300	62200	15300	5820	7550	5950	2940	1750	1560
MIN	564	580	1890	5330	5630	6260	3790	3970	2820	848	678	705
AC-FT	40600	55960	406400	557200	893600	569300	281500	366900	220900	105500	61810	59690

11530000 TRINITY RIVER AT HOOPA, CA—Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1912 - 1960, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	926	2578	6468	9239	11830	10400	10170	8663	4755	1635	650	508
MAX	5405	9589	28060	30140	50380	26370	19320	16700	9875	4265	1365	1248
(WY)	1951	1938	1956	1956	1958	1938	1938	1938	1953	1941	1953	1912
MIN	260	373	531	647	2433	3815	4790	3000	1378	466	249	213
(WY)	1933	1940	1937	1937	1937	1955	1944	1934	1934	1918	1934	1934

SUMMARY STATISTICS

WATER YEARS 1912 - 1960

ANNUAL MEAN	5618
HIGHEST ANNUAL MEAN	12270 1958
LOWEST ANNUAL MEAN	2630 1934
HIGHEST DAILY MEAN	158000 Dec 22 1955
LOWEST DAILY MEAN	162 Oct 4 1931
ANNUAL SEVEN-DAY MINIMUM	164 Oct 1 1931
MAXIMUM PEAK FLOW	a190000 Dec 22 1955
MAXIMUM PEAK STAGE	36.90 Dec 22 1955
ANNUAL RUNOFF (AC-FT)	4070000
10 PERCENT EXCEEDS	12700
50 PERCENT EXCEEDS	3070
90 PERCENT EXCEEDS	442

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1964 - 2004, BY WATER YEAR (WY)

	812	2930	7114	10890	10090	9923	6502	4772	2803	1266	764	684
MEAN	812	2930	7114	10890	10090	9923	6502	4772	2803	1266	764	684
MAX	1805	12900	29710	32090	28810	32240	16040	12020	9731	3233	1681	1309
(WY)	1980	1974	1965	1970	1986	1983	1983	1983	1998	1983	1983	1983
MIN	472	679	529	745	891	1608	1325	1204	746	338	270	336
(WY)	1988	1991	1977	1977	1977	1977	1977	1977	1977	1977	1977	1969

SUMMARY STATISTICS

FOR 2003 CALENDAR YEAR

FOR 2004 WATER YEAR

WATER YEARS 1964 - 2004

ANNUAL TOTAL	1975170	1824716	
ANNUAL MEAN	5411	4986	4858
HIGHEST ANNUAL MEAN			11350 1983
LOWEST ANNUAL MEAN			786 1977
HIGHEST DAILY MEAN	38000 Jan 14	62200 Feb 18	168000 Dec 22 1964
LOWEST DAILY MEAN	564 Oct 30	564 Oct 30	244 Aug 23 1977
ANNUAL SEVEN-DAY MINIMUM	573 Oct 26	573 Oct 26	246 Aug 18 1977
MAXIMUM PEAK FLOW		78400 Feb 18	231000 Dec 22 1964
MAXIMUM PEAK STAGE		35.61 Feb 18	57.00 Dec 22 1964
ANNUAL RUNOFF (AC-FT)	3918000	3619000	3519000
10 PERCENT EXCEEDS	12400	10700	11300
50 PERCENT EXCEEDS	3980	3880	2180
90 PERCENT EXCEEDS	717	713	600

a From rating curve extended above 56,000 ft³/s.

11530000 TRINITY RIVER AT HOOPA, CA—Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.—Water years 1960–79, 1998 to current year.

CHEMICAL ANALYSES: Water years 1951–81, 2002.

DISSOLVED OXYGEN: Water years 2002–03.

pH: Water years 2002–03.

SPECIFIC CONDUCTANCE: Water years 2002–03.

WATER TEMPERATURE: Water years 1957–83, 1998 to current year.

SEDIMENT DATA: Water years 1955–79.

PERIOD OF DAILY RECORD.—

DISSOLVED OXYGEN: June 2002 to October 2002 (seasonal only).

pH: June 2002 to October 2002 (seasonal only).

SPECIFIC CONDUCTANCE: June 2002 to October 2002 (seasonal only).

WATER TEMPERATURE: November 1956 to September 1983, July 1998 to current year.

SEDIMENT DATA: November 1956 to September 1979.

INSTRUMENTATION.—Temperature recorder since July 1998.

REMARKS.—Water temperature record rated excellent.

EXTREMES FOR PERIOD OF DAILY RECORD.—

DISSOLVED OXYGEN: Maximum recorded, 14.5 mg/L, Aug. 5, 2002; minimum recorded, 7.0 mg/L, Sept. 3, 2002.

pH: Maximum recorded, 8.7 standard units, several days during 2002; minimum recorded, 7.7 standard units, Sept. 17, 2002.

SPECIFIC CONDUCTANCE: Maximum recorded, 166 microsiemens, Oct. 28, 2002; minimum recorded, 127 microsiemens, July 21, 2002.

WATER TEMPERATURE: Maximum recorded, 26.0°C, July 25, 26, 2001, July 25–28, 2004; minimum recorded, 2.0°C, Dec. 23, 24, 1998.

EXTREME FOR CURRENT YEAR.—

WATER TEMPERATURE: Maximum recorded, 26.0°C, July 25–28; minimum recorded, 5.0°C, Dec. 29, 30.

TEMPERATURE, WATER, DEGREES CELSIUS, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	18.5	17.0	11.5	10.0	9.0	8.5	7.0	6.5	7.5	7.0	9.0	8.5
2	18.5	17.0	10.5	9.5	9.0	8.5	6.5	6.0	7.5	7.0	9.0	8.0
3	18.5	17.0	10.5	9.5	10.0	9.0	6.5	6.0	7.5	7.0	8.5	8.0
4	18.5	17.0	10.0	9.5	10.0	9.5	6.5	6.0	8.5	7.5	9.0	8.0
5	18.5	17.0	10.5	9.5	10.0	10.0	6.5	6.0	8.0	7.5	8.5	8.5
6	18.0	16.5	10.0	9.5	10.0	9.5	6.5	6.5	8.0	7.5	10.0	8.5
7	18.5	17.0	10.5	10.0	9.5	9.0	7.0	6.5	8.0	7.0	10.0	9.0
8	17.5	16.5	11.0	10.5	9.0	8.5	7.0	7.0	8.0	7.0	10.0	9.5
9	17.0	15.5	11.5	10.5	8.5	7.5	7.0	6.5	7.5	7.0	10.5	9.5
10	16.0	14.5	11.5	11.0	8.0	7.5	7.5	7.0	7.0	6.5	10.5	10.0
11	15.0	14.0	11.5	11.0	8.0	7.5	8.0	7.5	7.0	6.5	10.0	9.5
12	15.0	13.5	11.5	10.5	8.0	7.5	7.5	7.5	7.0	6.5	10.5	9.5
13	15.0	14.0	11.0	10.0	8.5	8.0	8.0	7.5	7.0	6.5	10.5	9.5
14	14.5	13.5	10.5	10.0	8.5	7.5	8.5	8.0	7.5	7.0	11.0	9.5
15	14.0	13.0	10.5	10.0	7.5	7.5	8.5	8.0	8.0	7.5	11.0	9.5
16	14.5	13.0	10.5	10.5	7.5	7.0	8.5	8.0	8.0	8.0	11.0	10.0
17	14.5	13.5	11.0	10.5	7.5	7.0	8.0	8.0	8.5	8.0	11.0	10.0
18	15.5	14.0	11.0	10.5	7.0	6.5	8.5	8.0	8.5	8.5	11.5	10.0
19	15.5	14.0	11.0	10.0	7.0	6.5	9.0	8.5	8.5	8.0	11.5	10.0
20	16.0	14.5	10.5	10.0	7.5	7.0	8.5	8.0	8.5	8.5	11.0	9.5
21	16.5	14.5	10.0	9.5	8.0	7.5	8.0	7.0	8.5	8.0	11.5	10.0
22	16.0	14.5	9.5	8.5	8.0	7.5	7.0	6.0	9.0	8.5	12.0	10.5
23	16.0	14.5	8.5	7.0	8.5	8.0	6.0	6.0	9.0	8.5	12.5	11.5
24	15.5	13.5	7.5	7.0	8.5	8.0	7.0	6.0	9.5	9.0	11.5	10.5
25	15.0	13.5	7.0	6.5	8.0	7.5	7.0	6.5	9.0	8.5	10.5	9.5
26	15.0	13.0	8.0	6.5	7.5	6.5	6.5	6.0	8.5	8.0	9.5	8.5
27	14.5	13.0	7.5	7.0	6.5	6.0	6.5	6.0	8.5	8.0	10.5	8.5
28	14.5	13.0	8.0	7.0	6.0	5.5	7.0	6.5	8.5	8.5	11.5	9.5
29	14.5	12.5	8.5	8.0	5.5	5.0	8.0	7.0	8.5	8.5	12.0	10.5
30	13.0	11.5	9.0	8.5	6.0	5.0	8.0	7.5	---	---	11.5	11.0
31	12.5	11.0	---	---	6.5	6.0	7.5	7.0	---	---	11.5	10.0
MONTH	18.5	11.0	11.5	6.5	10.0	5.0	9.0	6.0	9.5	6.5	12.5	8.0

11530000 TRINITY RIVER AT HOOPA, CA—Continued

TEMPERATURE, WATER, DEGREES CELSIUS, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	11.0	9.5	15.5	13.5	15.5	13.0	19.0	17.0	24.5	22.5	19.5	17.5
2	11.0	9.0	16.0	13.5	16.0	13.5	19.5	17.0	24.5	22.5	19.0	17.0
3	12.0	9.5	16.5	14.0	16.5	14.0	19.5	17.0	24.0	22.0	18.5	16.5
4	12.5	10.5	16.0	14.0	16.5	14.0	20.0	17.5	23.5	22.0	18.0	16.0
5	12.0	11.5	16.0	14.0	16.0	14.0	20.5	18.0	22.5	21.5	18.5	16.5
6	13.0	11.0	15.5	14.0	16.0	14.0	20.5	18.0	22.0	20.5	18.5	16.5
7	13.0	11.5	15.0	13.0	15.5	14.0	20.5	18.0	23.5	21.0	18.5	17.0
8	13.5	11.5	13.5	12.0	15.0	13.0	20.0	18.0	24.0	21.5	18.5	17.0
9	14.0	11.5	13.5	12.0	15.5	13.5	19.5	17.5	24.5	22.0	18.5	17.0
10	14.0	12.0	13.5	12.0	15.5	14.0	19.0	17.0	25.0	22.5	18.5	16.5
11	14.0	12.0	14.0	12.0	16.0	13.5	19.5	16.5	25.5	23.0	18.5	17.0
12	13.5	12.0	15.0	12.0	16.5	14.0	20.5	17.5	25.5	23.5	18.5	17.5
13	13.0	12.0	15.0	13.0	17.0	14.5	20.5	18.0	25.5	23.5	18.5	17.5
14	12.5	11.5	15.0	12.5	18.0	15.0	21.0	18.5	25.0	23.5	18.5	17.0
15	12.0	10.5	15.0	13.0	18.0	15.5	21.0	18.5	24.0	22.5	19.0	17.0
16	11.5	10.5	14.5	13.0	19.0	16.0	21.5	19.0	23.5	21.5	20.0	18.0
17	11.5	10.0	13.0	12.0	19.0	16.5	22.5	20.5	24.0	21.5	19.0	18.5
18	11.5	10.0	13.0	11.5	19.5	17.0	22.0	21.0	24.0	22.0	18.5	17.5
19	10.5	10.0	13.5	11.5	19.0	17.0	22.5	20.5	24.5	22.0	17.5	16.5
20	10.0	9.5	13.5	12.0	19.0	16.5	23.0	21.0	25.0	22.5	17.5	16.0
21	10.5	9.5	14.0	12.0	19.0	16.5	23.5	21.5	25.0	23.0	17.5	16.0
22	12.0	10.0	13.0	12.5	18.5	17.0	24.0	22.0	23.5	22.5	17.5	16.0
23	13.0	11.0	14.0	12.0	19.0	17.0	25.0	23.0	22.5	21.5	18.0	16.0
24	14.0	11.5	14.0	12.0	19.0	17.0	25.5	23.5	22.0	21.0	18.5	16.5
25	15.0	12.5	14.5	12.5	19.0	17.0	26.0	23.5	21.0	18.5	18.5	17.0
26	15.5	13.0	15.0	12.5	19.0	16.5	26.0	23.5	19.0	17.0	18.5	17.0
27	16.0	13.5	14.0	12.5	19.5	16.5	26.0	23.5	19.5	17.0	18.5	17.0
28	15.5	13.5	13.0	12.0	19.5	17.0	26.0	23.5	19.5	17.0	18.5	16.5
29	15.0	13.0	14.0	12.0	19.5	17.5	25.5	23.5	20.0	17.5	18.0	17.0
30	15.0	12.5	15.0	12.5	19.5	17.0	25.0	23.0	20.0	17.5	18.0	16.5
31	---	---	15.5	13.0	---	---	24.5	22.5	20.0	17.5	---	---
MONTH	16.0	9.0	16.5	11.5	19.5	13.0	26.0	16.5	25.5	17.0	20.0	16.0

CROSS-SECTIONAL DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Time	Depth at sample location, feet (81903)	Temperature, water, deg C (00010)	Location in X-sect. looking downstrm ft from l bank (00009)
APR				
07...*	0910	5.10	11.3	16.0
07...*	0915	11.2	11.2	48.0
07...*	0920	8.80	11.2	80.0
07...*	0925	5.60	11.2	112
07...*	0930	2.00	11.3	144

* Instantaneous discharge at the time of the cross-sectional measurement: Apr. 7, 5020 ft³/s.

11530500 KLAMATH RIVER NEAR KLAMATH, CA

LOCATION.—Lat 41°30'40", long 123°58'42", in SW 1/4 sec.17, T.13 N., R.2 E., [Del Norte County](#), Hydrologic Unit 18010209, on right bank, 2.8 mi upstream from Turwar Creek, and 3.3 mi southeast of Klamath.

DRAINAGE AREA.—12,100 mi², approximately (not including Lost River or Lower Klamath Lake Basins).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.—October 1910 to December 1926 (published as "near Requa"), October 1950 to September 1994, October 1995 to September 1997 (stage only), and October 1997 to current year. Monthly discharge only for some periods, published in WSP 1315-B.

REVISED RECORDS.—WSP 1285: 1951(P). WSP 1445: 1918–20. WDR CA-81-2: 1980.

GAGE.—Water-stage recorder and crest-stage gage. Datum of gage is NGVD of 1929. Prior to June 1926, nonrecording gage at site 2.6 mi upstream at different datum. Oct. 1, 1950, to Oct. 2, 1975, water-stage recorder at site 2.6 mi upstream at datum 5.60 ft above NGVD of 1929. Oct. 2, 1975, to Sept. 30, 2003, water-stage recorder at site 2.6 mi downstream.

REMARKS.—Records fair. Medium and low flows considerably regulated by reservoirs and powerplants upstream from station and by transbasin diversion (from Trinity River) to Judge Francis Carr Powerplant (station 11525430) since April 1963. Large diversions for irrigation upstream from station. See schematic diagram of [Klamath River and Trinity River Basins](#).

EXTREMES FOR PERIOD OF RECORD.—Maximum discharge, 557,000 ft³/s, Dec. 23, 1964, gage height, 55.3 ft, current datum, from floodmarks, from rating curve extended above 230,000 ft³/s, on basis of flood-routing study; minimum daily, 1,310 ft³/s, Sept. 4, 1977.

EXTREMES OUTSIDE PERIOD OF RECORD.—Flood of December 1861 reached a stage of 60 ft, site and datum then in use, discharge 450,000 ft³/s; flood of February 1881 reached a discharge of 360,000 ft³/s; flood of February 1890 reached a stage of 63 ft, site and datum then in use, discharge 425,000 ft³/s. Maximum discharges for 1927 and 1932–50, determined from upstream stations, are published in WSP 1686, Part 11, Volume 2.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3010	2950	8310	26200	28000	43700	22400	17500	13700	6570	2740	3770
2	3020	3020	8480	35200	26600	42200	20600	18000	13500	6530	2740	3630
3	3060	3210	8000	26900	27400	38800	19400	18500	13400	6170	2740	3520
4	3120	3300	7230	21300	25400	35200	19100	18700	13000	6060	2770	3480
5	3120	3350	9920	18300	23100	32300	19400	18200	12500	5950	2790	3500
6	3090	3370	22100	16300	21700	30400	19700	17200	11900	5840	2800	3460
7	3070	3410	27100	16600	22700	28800	19600	18000	11500	5710	2840	3350
8	3060	3600	19100	19600	20900	29400	19100	18300	11100	5590	2850	3310
9	3070	4340	13500	31600	19400	32600	18900	17100	10500	5390	2810	3280
10	3090	4760	11400	39600	18100	35300	18800	16000	9870	5290	2750	3300
11	3110	4530	11600	35000	17100	34500	18800	15500	9560	5050	2630	3250
12	3190	4020	16000	29100	16300	32800	18600	14900	9330	4730	2570	3220
13	3230	3710	63900	28500	15800	31700	18500	14500	9140	4480	2530	3180
14	3210	3590	74600	30200	15700	30800	18400	14600	8970	4200	2490	2920
15	3180	4150	43500	37200	15400	30200	18600	15400	8840	4000	2450	2670
16	3190	4890	25100	35500	21600	29500	17500	16500	8670	3840	2460	2540
17	3200	5610	18200	30200	94600	28800	16300	17800	8530	3720	2490	2550
18	3110	5210	14800	26100	174000	28500	15500	17700	8150	3590	2510	2620
19	3050	4510	13200	23900	112000	28100	15100	17500	7850	3430	2630	2810
20	3030	4420	15100	22700	74300	26200	17000	17000	7590	3380	2660	2860
21	3040	4450	16800	21100	59000	24700	26500	17000	7360	3330	2490	2830
22	3020	4240	14300	19200	49400	24900	25200	17000	7340	3220	2440	2800
23	3000	3980	12700	17900	42800	25900	20800	16700	7330	3130	2540	2780
24	2980	3840	16600	21700	38500	25200	19000	16300	7230	2990	2960	2730
25	2970	3810	29600	22100	38200	24700	18500	15900	7010	2930	3880	2700
26	2950	4070	23600	20200	61100	26200	19000	15800	6730	2880	4130	2660
27	2930	4100	18400	24800	71400	26300	20500	16000	6570	2870	4260	2620
28	2920	3920	15600	30100	56900	24700	21200	16700	6450	2840	4530	2590
29	2920	4360	28700	27400	47300	23500	19700	16400	6470	2780	4440	2590
30	2910	8060	29200	29100	---	24700	18000	14800	6580	2760	4210	2590
31	2930	---	20800	31200	---	24400	---	14100	---	2740	3950	---
TOTAL	94780	124780	657440	814880	1254700	925000	579700	515600	276670	131990	93080	90110
MEAN	3057	4159	21210	26280	43270	29840	19320	16630	9222	4258	3003	3004
MAX	3230	8060	74600	39600	174000	43700	26500	18700	13700	6570	4530	3770
MIN	2910	2950	7230	16300	15400	23500	15100	14100	6450	2740	2440	2540
AC-FT	188000	247500	1304000	1616000	2489000	1835000	1150000	1023000	548800	261800	184600	178700

11530500 KLAMATH RIVER NEAR KLAMATH, CA—Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1911 - 1962, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	4987	11130	19480	27730	37540	27340	27710	23170	13830	5921	3383	3339
MAX	18950	30460	72580	83550	123200	53280	48860	37250	29580	12370	5871	5107
(WY)	1951	1921	1956	1953	1958	1957	1952	1952	1953	1953	1953	1912
MIN	2700	3502	4138	7454	6263	6916	6270	3975	2106	1731	1567	1860
(WY)	1920	1960	1960	1924	1920	1924	1924	1924	1924	1924	1918	1918

SUMMARY STATISTICS

WATER YEARS 1911 - 1962

ANNUAL MEAN	17010
HIGHEST ANNUAL MEAN	33360 1958
LOWEST ANNUAL MEAN	5156 1924
HIGHEST DAILY MEAN	378000 Dec 22 1955
LOWEST DAILY MEAN	1340 Jul 31 1924
ANNUAL SEVEN-DAY MINIMUM	1440 Jul 30 1924
MAXIMUM PEAK FLOW	a425000 Dec 22 1955
MAXIMUM PEAK STAGE	b49.7 Dec 22 1955
ANNUAL RUNOFF (AC-FT)	12320000
10 PERCENT EXCEEDS	37300
50 PERCENT EXCEEDS	10200
90 PERCENT EXCEEDS	2860

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1963 - 2004, BY WATER YEAR (WY)

MEAN	4754	13960	25970	33570	33350	33520	25720	19450	11160	4667	3125	3219
MAX	17830	55620	87770	97760	102700	82410	60400	40080	30060	12220	6599	5923
(WY)	1963	1974	1965	1970	1986	1983	1974	1983	1998	1983	1983	1983
MIN	2134	3236	3942	4212	4231	6954	5448	5638	3630	1782	1441	1977
(WY)	1995	1988	1977	1977	1977	1977	1977	1977	1977	1977	1977	1991

SUMMARY STATISTICS

FOR 2003 CALENDAR YEAR

FOR 2004 WATER YEAR

WATER YEARS 1963 - 2004

ANNUAL TOTAL	6173420	5558650	
ANNUAL MEAN	16910	15190	17470
HIGHEST ANNUAL MEAN			36100 1983
LOWEST ANNUAL MEAN			4036 1977
HIGHEST DAILY MEAN	98500 Jan 14	174000 Feb 18	420000 Dec 23 1964
LOWEST DAILY MEAN	2910 Oct 30	2440 Aug 22	1310 Sep 4 1977
ANNUAL SEVEN-DAY MINIMUM	2930 Oct 26	2500 Aug 12	1370 Aug 18 1977
MAXIMUM PEAK FLOW		195000 Feb 18	557000 Dec 23 1964
MAXIMUM PEAK STAGE		32.95 Feb 18	55.30 Dec 23 1964
ANNUAL RUNOFF (AC-FT)	12240000	11030000	12660000
10 PERCENT EXCEEDS	36800	30200	39200
50 PERCENT EXCEEDS	13100	11600	9540
90 PERCENT EXCEEDS	3070	2810	2830

a From rating curve extended above 140,000 ft³/s on basis of flood-routing study.
 b From floodmarks, site and datum then in use.

KLAMATH RIVER BASIN

11530500 KLAMATH RIVER NEAR KLAMATH, CA—Continued

TEMPERATURE, WATER, DEGREES CELSIUS, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAY	MAX		MIN		MAX		MIN		MAX		MIN		MAX		MIN	
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH					
1	19.3	17.8	12.4	11.1	9.2	8.6	7.2	6.8	8.6	8.2	9.4	9.1				
2	18.8	17.6	11.5	10.5	9.5	9.0	7.1	6.2	8.6	8.4	9.3	8.8				
3	18.4	17.2	10.9	10.2	10.0	9.4	6.6	6.2	8.6	8.3	9.3	9.0				
4	18.1	17.2	10.6	10.0	10.4	9.7	6.8	6.5	9.2	8.6	9.4	8.7				
5	18.4	17.4	11.0	10.0	10.3	10.1	6.7	6.4	9.0	8.7	9.5	9.2				
6	18.5	17.3	10.8	10.4	10.1	9.8	6.9	6.7	8.8	8.5	10.1	9.2				
7	18.6	17.7	10.8	10.3	9.8	9.3	7.3	6.9	8.6	8.2	10.7	9.9				
8	18.5	17.0	10.9	10.5	9.3	8.7	7.4	7.2	8.4	8.0	10.9	10.1				
9	17.4	16.5	11.6	10.7	8.8	8.2	7.3	7.1	8.2	7.7	11.2	10.4				
10	17.1	15.8	12.3	11.2	8.8	8.1	7.4	7.1	8.0	7.4	11.2	10.4				
11	16.6	14.9	12.5	11.6	8.4	8.1	7.7	7.3	7.9	7.2	11.0	10.2				
12	15.6	14.6	12.1	11.5	8.9	8.2	7.6	7.4	8.0	7.3	10.9	10.1				
13	15.5	14.2	11.8	10.8	9.2	8.9	8.1	7.3	7.7	7.5	11.0	10.2				
14	15.1	14.0	11.6	11.0	9.0	8.7	8.5	8.1	8.2	7.5	11.2	10.3				
15	15.0	13.7	11.0	10.6	8.8	8.3	8.6	8.3	8.7	8.1	11.3	10.4				
16	15.2	13.8	10.7	10.5	8.3	7.9	8.6	8.3	8.8	8.7	11.4	10.4				
17	15.5	14.0	11.1	10.5	7.9	7.7	8.6	8.2	8.8	8.6	11.3	10.4				
18	15.5	14.9	11.3	10.5	7.8	7.4	8.6	8.3	9.1	8.8	11.4	10.5				
19	15.6	14.8	11.1	10.5	7.6	7.4	9.0	8.6	9.1	8.8	11.4	10.7				
20	16.4	15.3	11.0	10.5	7.7	7.5	8.9	8.6	9.0	8.8	11.1	10.3				
21	16.5	15.5	10.8	10.0	8.3	7.7	8.6	7.9	9.0	8.9	11.3	10.4				
22	16.5	15.6	10.1	9.3	8.4	8.1	8.0	7.2	9.3	9.0	11.6	10.8				
23	16.5	15.6	9.3	8.3	8.6	8.2	7.2	6.8	9.6	9.3	12.4	11.5				
24	16.2	14.9	8.4	7.8	8.7	8.4	7.4	6.9	9.7	9.5	11.8	11.3				
25	15.7	14.6	8.1	7.5	8.4	7.9	7.6	7.3	9.6	9.3	11.3	10.2				
26	15.2	14.2	8.0	7.4	7.9	7.0	7.3	7.0	9.3	8.9	10.2	9.1				
27	14.9	14.0	7.8	7.3	7.0	6.5	7.5	7.0	9.0	8.7	9.9	8.8				
28	14.8	13.9	8.4	7.7	6.5	6.4	8.0	7.5	9.4	8.9	11.0	9.7				
29	14.7	14.0	8.6	8.4	6.9	6.4	8.6	8.0	9.4	9.2	11.4	10.6				
30	14.0	13.1	8.8	8.4	6.9	6.3	8.9	8.6	---	---	11.6	11.2				
31	13.2	12.4	---	---	6.9	6.5	8.6	8.2	---	---	11.3	10.6				
MONTH	19.3	12.4	12.5	7.3	10.4	6.3	9.0	6.2	9.7	7.2	12.4	8.7				
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER					
1	10.8	9.9	14.2	12.9	16.3	15.0	20.8	20.0	23.4	22.5	21.6	20.2				
2	10.9	9.9	14.7	13.3	16.9	15.5	21.6	19.8	23.2	21.7	21.1	20.0				
3	11.5	10.2	15.0	13.9	17.1	16.0	21.5	20.0	23.5	22.0	20.8	19.4				
4	12.0	11.2	14.3	13.8	17.9	16.5	22.2	20.0	23.4	21.9	20.6	19.1				
5	12.0	11.5	14.7	13.5	17.0	16.2	22.8	20.2	22.5	21.4	20.7	19.2				
6	11.9	11.2	14.7	13.5	16.8	16.0	23.2	20.8	22.3	21.2	20.8	19.4				
7	12.6	11.7	14.0	13.2	16.8	15.9	23.0	20.9	22.7	21.0	20.9	19.5				
8	12.9	11.8	13.7	12.9	16.0	14.9	22.7	20.6	23.3	21.9	20.8	19.6				
9	13.2	12.1	12.9	12.6	15.5	14.8	22.1	20.1	23.4	22.4	20.7	19.5				
10	13.4	12.2	13.3	12.4	16.0	14.7	21.8	19.8	23.8	22.6	20.6	19.3				
11	13.2	12.4	13.2	12.6	17.1	15.3	21.5	19.3	23.7	22.5	20.4	19.3				
12	12.8	12.2	14.0	12.4	17.5	15.7	21.8	19.4	23.7	22.5	20.6	19.6				
13	12.5	11.8	14.6	13.2	18.1	16.3	21.8	20.1	23.8	22.5	20.3	19.2				
14	11.8	11.1	14.9	13.8	18.8	16.8	22.0	20.4	23.3	22.3	20.1	18.8				
15	11.1	10.8	14.8	13.9	19.5	17.2	22.6	20.4	23.6	22.4	20.0	19.1				
16	11.3	10.4	15.1	14.2	20.2	17.8	22.8	20.8	23.2	21.9	20.6	19.7				
17	11.3	10.3	14.6	13.4	19.9	18.4	23.1	21.0	23.3	22.0	20.2	19.2				
18	10.8	10.5	13.6	13.2	19.6	18.6	22.9	21.2	23.3	22.1	19.2	18.4				
19	10.8	10.4	13.9	12.9	20.4	18.9	23.2	21.5	23.3	22.0	18.7	17.9				
20	10.5	9.8	13.9	13.2	19.9	19.0	23.6	21.8	23.7	22.4	18.2	17.2				
21	10.0	9.6	14.0	13.6	19.5	18.5	23.6	21.7	23.7	22.6	18.0	16.9				
22	10.9	9.4	14.1	13.7	18.9	18.3	24.1	22.2	23.2	22.1	17.9	16.9				
23	12.0	10.6	14.7	13.6	19.2	18.1	24.4	22.7	22.2	21.8	18.0	17.1				
24	12.9	11.6	15.0	13.8	20.2	19.0	24.4	22.9	22.0	21.6	18.3	17.4				
25	13.8	12.3	15.5	14.2	20.8	18.9	24.5	23.2	22.0	20.8	18.2	17.6				
26	14.3	12.9	15.9	14.7	20.8	19.1	24.6	23.3	21.6	20.4	18.6	17.3				
27	14.6	13.4	15.7	14.8	21.2	19.1	24.7	23.5	21.8	19.9	18.6	17.6				
28	14.3	13.4	14.8	13.8	21.6	19.3	24.6	23.6	22.1	19.9	18.5	17.8				
29	13.8	12.6	14.6	13.2	21.4	19.6	24.4	23.3	22.2	20.3	18.4	17.5				
30	13.8	12.4	15.1	13.7	21.0	19.7	24.2	23.3	22.0	20.3	18.2	17.2				
31	---	---	16.0	14.5	---	---	24.1	22.9	21.8	20.4	---	---				
MONTH	14.6	9.4	16.0	12.4	21.6	14.7	24.7	19.3	23.8	19.9	21.6	16.9				

11530500 KLAMATH RIVER NEAR KLAMATH, CA—Continued

CROSS-SECTIONAL DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Time	Depth at sample locati- on, feet (81903)	Temper- ature, water, deg C (00010)	Loca- tion in X-sect. looking dwnstrm ft from l bank (00009)
DEC				
02...*	1030	4.67	9.0	50.0
02...*	1031	7.95	8.9	140
02...*	1032	9.59	8.9	230
02...*	1033	4.67	9.0	320
02...*	1034	3.00	9.0	415
AUG				
10...*	1030	1.00	22.8	47.0
10...*	1031	2.50	22.8	140
10...*	1032	8.08	22.8	233
10...*	1033	3.81	22.8	327
10...	1034	2.00	22.8	420
SEP				
08...*	1205	1.00	20.0	40.0
08...*	1206	2.86	20.0	125
08...*	1207	6.63	20.0	200
08...*	1208	6.14	20.0	290
08...*	1209	3.68	20.0	370

* Instantaneous discharge at time of the cross-sectional measurements: Dec. 2, 8,560 ft³/s; Aug. 10, 2,720 ft³/s; Sep. 8, 3,290 ft³/s

11532500 SMITH RIVER NEAR CRESCENT CITY, CA

LOCATION.—Lat 41°47'30", long 124°04'30", in SW 1/4 SW 1/4 sec.9, T.16 N., R.1 E., Del Norte County, Hydrologic Unit 18010101, Redwood National Park, on right bank, opposite mouth of Cedar Creek, 1.6 mi downstream from South Fork, and 7 mi east of Crescent City.

DRAINAGE AREA.—614 mi².

PERIOD OF RECORD.—October 1931 to current year. Monthly discharge only for some periods, published in WSP 1315-B.

CHEMICAL DATA: Water years 1952–93

BIOLOGICAL DATA: Water years 1978–81

SPECIFIC CONDUCTANCE: Water years 1979–81

WATER TEMPERATURE: Water years 1966–81

SEDIMENT DATA: Water years 1955–56, 1977–93.

REVISED RECORDS.—WSP 1929: Drainage area.

GAGE.—Water-stage recorder and crest-stage gage. Datum of gage is 79.26 ft above NGVD of 1929. Prior to Oct. 9, 1991, at site 1.1 mi upstream at datum 10.35 ft higher.

REMARKS.—Records good. No regulation or diversion upstream from station.

EXTREMES FOR PERIOD OF RECORD.—Maximum discharge, 228,000 ft³/s, Dec. 22, 1964, gage height, 48.5 ft, from floodmarks, from rating curve extended above 110,000 ft³/s, on basis of slope-area measurement at gage height 39.51 ft, former site and datum; minimum daily, 160 ft³/s, Oct. 24, 25, 1964.

EXTREMES OUTSIDE PERIOD OF RECORD.—Flood of Nov. 30, 1926, reached a stage of 41.40 ft, at datum 10.35 ft higher, from floodmarks, discharge, 166,000 ft³/s, from rating extension above 39.51 ft.

EXTREMES FOR CURRENT YEAR.—Peak discharges greater than base discharge of 36,000 ft³/s, or maximum:

Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Dec. 13	1030	81,000	25.56

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	227	216	1840	15700	6810	8100	3530	2710	966	483	308	263
2	225	228	1740	12700	7030	7390	3110	2520	924	478	309	259
3	224	286	2240	8880	6820	6100	2820	2390	893	468	313	253
4	223	274	2450	7150	5600	5190	2620	2220	859	461	307	250
5	222	292	7920	6060	4730	4660	2460	2090	832	449	312	248
6	220	292	15300	5520	4960	4480	2300	1940	836	433	316	245
7	225	337	9370	6510	6860	4210	2160	1900	861	423	329	242
8	226	535	7700	11500	5770	4240	2050	1910	889	414	316	240
9	235	775	4670	12500	4820	4290	1970	1740	846	410	300	239
10	237	595	3860	11500	4170	4050	1910	1660	803	410	290	238
11	236	446	4800	8630	3710	3630	1860	1630	768	409	287	237
12	261	364	12200	7170	3370	3380	1800	1550	739	406	281	240
13	258	322	64600	7130	3130	3140	1750	1450	716	399	277	241
14	239	304	32500	6990	3190	2930	2610	1400	700	395	272	245
15	231	692	13200	7820	3730	2770	5600	1350	672	389	273	242
16	242	1420	8300	6380	10900	2650	5040	1320	648	382	273	246
17	245	2270	6050	5290	26400	2530	3790	1270	627	379	269	250
18	236	1130	4960	4830	24900	2430	3350	1310	613	373	266	287
19	235	865	4590	4820	13900	2300	3950	1250	604	374	264	368
20	248	1730	5330	4670	9420	2110	13000	1200	588	372	260	345
21	251	1190	4560	4130	7240	2020	26300	1150	583	364	256	297
22	239	905	3870	3640	5940	2010	13500	1130	580	356	274	273
23	237	735	3480	3680	5080	1970	8620	1100	577	346	332	262
24	236	653	6760	6080	5370	2060	6520	1050	564	338	330	255
25	225	647	9050	5460	6380	2530	5440	1010	549	332	327	250
26	217	1570	6770	4680	14300	5570	4890	978	528	328	363	249
27	213	1470	5170	11800	15400	9930	4370	994	521	322	326	247
28	210	1040	4750	10600	10400	6440	3810	1300	512	317	293	244
29	208	1670	23600	8250	7840	5060	3280	1290	497	313	278	242
30	210	2480	14400	10200	---	4690	2930	1110	492	311	269	242
31	217	---	9150	8680	---	4120	---	1030	---	306	264	---
TOTAL	7158	25733	305180	238950	238170	126980	147340	46952	20787	11940	9134	7739
MEAN	231	858	9845	7708	8213	4096	4911	1515	693	385	295	258
MAX	261	2480	64600	15700	26400	9930	26300	2710	966	483	363	368
MIN	208	216	1740	3640	3130	1970	1750	978	492	306	256	237
AC-FT	14200	51040	605300	474000	472400	251900	292200	93130	41230	23680	18120	15350

11532500 SMITH RIVER NEAR CRESCENT CITY, CA—Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1932 - 2004, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	987	4496	7591	8554	7507	6431	4374	2738	1255	528	337	331
MAX	11770	23620	21740	21930	22680	15760	11960	7550	3876	1217	715	1471
(WY)	1951	1974	1997	1953	1986	1938	1982	1933	1937	1947	1947	1978
MIN	185	200	264	767	1076	1602	1406	835	524	336	226	198
(WY)	1965	1937	1977	1977	1977	1988	1977	1947	1987	1987	1959	1939

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1932 - 2004	
ANNUAL TOTAL	1357449		1186063			
ANNUAL MEAN	3719		3241		3745	
HIGHEST ANNUAL MEAN					7027	
LOWEST ANNUAL MEAN					975	
HIGHEST DAILY MEAN	64600	Dec 13	64600	Dec 13	180000	Dec 22 1964
LOWEST DAILY MEAN	208	Oct 29	208	Oct 29	160	Oct 24 1964
ANNUAL SEVEN-DAY MINIMUM	213	Oct 26	213	Oct 26	163	Oct 20 1964
MAXIMUM PEAK FLOW			81000	Dec 13	228000	Dec 22 1964
MAXIMUM PEAK STAGE			25.56	Dec 13	48.50	Dec 22 1964
INSTANTANEOUS LOW FLOW			203	Oct 30	203	Oct 30 2003
ANNUAL RUNOFF (AC-FT)	2693000		2353000		2713000	
10 PERCENT EXCEEDS	9430		8140		8840	
50 PERCENT EXCEEDS	1640		1140		1560	
90 PERCENT EXCEEDS	240		242		264	

11532650 SMITH RIVER NEAR FORT DICK, CA

LOCATION.—Lat 41°52'51", long 124°08'07", in SW 1/4 NW 1/4 sec.12, T.17 N., R.1 W., Del Norte County, Hydrologic Unit 18010101, on right bank, 10 ft upstream from bridge on U.S. Highway 101, 0.2 mi downstream from Hutsinpillar Creek, and 1.2 mi northeast of Fort Dick.

DRAINAGE AREA.—672 mi².

PERIOD OF RECORD.—October 1989 to current year. Records prior to October 1989 in files of the California Department of Water Resources.

GAGE.—Water-stage recorder. Datum of gage is NGVD of 1929.

REMARKS.—Data is collected for flood-warning purposes.

EXTREMES FOR PERIOD OF RECORD.—Maximum gage height, 34.12 ft, Jan. 8, 1990.

GAGE HEIGHT, FEET, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	12.53	12.49	12.52	12.50	14.56	14.36	20.82	17.53	17.10	16.61	17.42	17.01
2	12.54	12.52	12.57	12.51	14.42	14.25	19.94	18.22	17.07	16.56	17.31	16.78
3	12.53	12.52	12.70	12.57	15.07	14.23	18.22	17.31	17.04	16.56	16.78	16.38
4	12.54	12.52	12.71	12.64	15.07	14.70	17.32	16.84	16.56	16.16	16.38	16.06
5	12.53	12.52	12.71	12.64	17.66	14.84	16.84	16.45	16.16	15.87	16.07	15.94
6	12.53	12.51	12.71	12.69	21.67	17.51	16.45	16.33	16.65	15.79	15.95	15.83
7	12.53	12.52	12.88	12.70	18.04	17.46	16.88	16.38	16.94	16.65	15.83	15.69
8	12.54	12.52	13.43	12.88	18.02	16.51	18.88	16.88	16.68	16.26	15.78	15.69
9	12.56	12.54	13.58	13.42	16.51	15.84	18.98	18.31	16.27	15.92	15.81	15.71
10	12.57	12.55	13.42	13.17	15.85	15.52	18.55	17.88	15.92	15.66	15.73	15.55
11	12.58	12.54	13.17	12.97	16.24	15.59	17.88	17.08	15.66	15.46	15.55	15.39
12	12.63	12.57	12.97	12.84	22.98	16.07	17.08	16.84	15.46	15.30	15.40	15.26
13	12.63	12.59	12.84	12.76	29.15	22.98	16.96	16.75	15.30	15.20	15.27	15.15
14	12.60	12.56	12.76	12.73	28.14	20.37	17.11	16.68	15.32	15.20	15.16	15.05
15	12.56	12.54	13.78	12.74	20.37	18.08	17.27	16.89	15.54	15.27	15.05	14.96
16	12.58	12.55	14.40	13.74	18.08	16.94	16.90	16.42	20.98	15.50	14.97	14.89
17	12.59	12.57	15.03	14.33	16.96	16.32	16.42	16.06	22.85	20.00	14.90	14.83
18	12.58	12.56	14.33	13.66	16.32	15.95	16.07	16.01	22.51	20.37	14.83	14.76
19	12.58	12.55	13.78	13.50	16.18	15.81	16.06	16.00	20.37	18.33	14.77	14.67
20	12.60	12.56	14.54	13.78	16.30	16.08	16.03	15.87	18.34	17.31	14.68	14.56
21	12.60	12.58	14.16	13.79	16.08	15.74	15.88	15.62	17.32	16.72	14.58	14.54
22	12.58	12.55	13.79	13.53	15.74	15.46	15.63	15.41	16.72	16.33	14.57	14.53
23	12.58	12.55	13.54	13.37	15.47	15.35	16.02	15.34	16.34	16.00	14.55	14.47
24	12.57	12.54	13.37	13.28	17.51	15.37	16.59	16.02	16.41	15.99	14.71	14.46
25	12.56	12.52	13.38	13.24	17.68	17.23	16.55	16.13	17.32	16.26	15.66	14.51
26	12.53	12.51	14.41	13.38	17.23	16.45	16.13	15.92	20.19	17.32	17.37	15.62
27	12.52	12.50	14.40	13.95	16.45	15.98	19.72	16.01	20.19	18.82	18.24	17.24
28	12.51	12.49	13.95	13.65	16.19	15.91	18.99	17.57	18.82	17.61	17.24	16.29
29	12.52	12.49	15.03	13.63	23.13	16.19	17.57	17.07	17.61	17.01	16.30	15.96
30	12.52	12.48	15.09	14.56	21.36	18.18	18.25	17.09	---	---	16.08	15.89
31	12.52	12.50	---	---	18.18	17.53	17.93	17.09	---	---	15.90	15.58
MONTH	12.63	12.48	15.09	12.50	29.15	14.23	20.82	15.34	22.85	15.20	18.24	14.46

11532650 SMITH RIVER NEAR FORT DICK, CA—Continued

GAGE HEIGHT, FEET, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAY	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	15.60	15.34	15.06	14.93	13.71	13.62	13.02	12.99	12.68	12.64	12.57	12.55
2	15.35	15.14	14.94	14.82	13.65	13.58	13.00	12.98	12.68	12.65	12.58	12.54
3	15.16	15.01	14.86	14.73	13.61	13.55	12.99	12.96	12.69	12.65	12.56	12.52
4	15.02	14.90	14.76	14.66	13.58	13.51	12.98	12.95	12.68	12.64	12.55	12.52
5	14.92	14.82	14.68	14.56	13.54	13.48	12.97	12.92	12.68	12.64	12.54	12.51
6	14.83	14.72	14.58	14.47	13.53	13.48	12.95	12.90	12.69	12.66	12.53	12.50
7	14.73	14.63	14.53	14.44	13.56	13.49	12.94	12.89	12.72	12.67	12.53	12.50
8	14.65	14.56	14.57	14.42	13.60	13.52	12.92	12.87	12.72	12.65	12.52	12.49
9	14.58	14.51	14.45	14.31	13.55	13.48	12.92	12.86	12.66	12.62	12.51	12.49
10	14.53	14.47	14.35	14.28	13.48	13.44	12.90	12.86	12.63	12.60	12.51	12.48
11	14.49	14.43	14.32	14.25	13.44	13.39	12.90	12.85	12.63	12.59	12.51	12.48
12	14.45	14.38	14.28	14.16	13.40	13.36	12.89	12.85	12.62	12.57	12.51	12.49
13	14.44	14.34	14.19	14.10	13.37	13.33	12.88	12.83	12.61	12.57	12.52	12.49
14	15.48	14.42	14.13	14.06	13.34	13.31	12.86	12.82	12.60	12.57	12.53	12.50
15	16.49	15.48	14.08	14.02	13.32	13.27	12.86	12.81	12.60	12.56	12.53	12.50
16	16.49	15.79	14.04	13.98	13.28	13.24	12.84	12.80	12.60	12.57	12.53	12.51
17	15.79	15.40	14.01	13.94	13.25	13.21	12.84	12.80	12.59	12.56	12.58	12.51
18	15.40	15.30	14.03	13.94	13.23	13.19	12.84	12.79	12.59	12.55	12.68	12.55
19	15.76	15.39	14.01	13.91	13.22	13.18	12.83	12.78	12.58	12.54	12.83	12.67
20	21.64	15.75	13.93	13.87	13.20	13.16	12.81	12.77	12.56	12.54	12.84	12.72
21	23.06	20.41	13.89	13.83	13.18	13.15	12.80	12.75	12.56	12.53	12.73	12.63
22	20.41	18.09	13.85	13.80	13.17	13.15	12.79	12.74	12.64	12.54	12.67	12.57
23	18.10	17.06	13.83	13.76	13.17	13.14	12.77	12.72	12.78	12.63	12.61	12.56
24	17.08	16.49	13.78	13.72	13.16	13.12	12.75	12.70	12.78	12.72	12.59	12.54
25	16.51	16.16	13.74	13.68	13.14	13.10	12.74	12.70	12.75	12.71	12.58	12.53
26	16.19	15.94	13.70	13.64	13.11	13.07	12.73	12.68	12.82	12.73	12.57	12.53
27	15.97	15.70	13.77	13.63	13.08	13.06	12.71	12.67	12.80	12.68	12.57	12.52
28	15.72	15.44	14.11	13.74	13.07	13.03	12.70	12.66	12.70	12.62	12.56	12.52
29	15.45	15.20	14.09	13.87	13.05	13.01	12.69	12.65	12.63	12.59	12.55	12.51
30	15.22	15.04	13.89	13.75	13.03	13.00	12.69	12.64	12.60	12.57	12.55	12.50
31	---	---	13.77	13.68	---	---	12.68	12.64	12.59	12.56	---	---
MONTH	23.06	14.34	15.06	13.63	13.71	13.00	13.02	12.64	12.82	12.53	12.84	12.48

As the number of streams on which streamflow information is likely to be desired far exceeds the number of stream-gaging stations feasible to operate at one time, the U.S. Geological Survey collects limited streamflow data at sites other than stream-gaging stations. When limited streamflow data are collected on a systematic basis over a period of years for use in hydrologic analyses, the site at which the data are collected is called a partial-record station. Data collected at these partial-record stations are usable in low- or flood-flow analyses, depending on the type of data collected.

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. Discharge measurements made at miscellaneous sites are given in separate tables.

Low-flow partial-record stations

Measurements of streamflow in the area covered by this volume made at low-flow partial-record stations are given in the following table. The column headed "Period of record" shows the water years in which measurements were made at the same or practically the same site.

Discharge measurements made at low-flow partial-record stations during water year 2004

Station No.	Station name	Location	Drainage area (mi ²)	Period of record	Measurements	
					Date	Discharge (ft ³ /s)
KLAMATH RIVER BASIN						
11525520	Deadwood Creek at Lewiston, CA	Lat 40°43'02", long 122°48'04", in SW 1/4 NW 1/4 sec.17, T.33 N., R.8 W., Trinity County , Hydrologic Unit 18010211, 300 ft upstream from mouth and 0.7 mi northeast of Lewiston.	9.10	a1965–75, 1976–2004	01-09-04	38.9
					02-20-04	40.1
					03-17-04	10.7
					04-07-04	5.38

Special study and miscellaneous sites

Discharge measurements in the following table were made at special study and miscellaneous sites throughout the area covered by this volume.

Discharge measurements made at special study and miscellaneous sites during water year 2004

Stream	Tributary to	Location	Drainage area (mi ²)	Measured previously (water year)	Measurements	
					Date	Discharge (ft ³ /s)
SALINAS RIVER BASIN						
11151870	Salinas River	Lat 36°14'15", long 121°28'50", in NE 1/4 SE 1/4 sec.36, T.19 S., R.4 E., Monterey County , Hydrologic Unit 18060005, on right bank, 0.6 mi downstream from Rocky Creek, and 14.5 mi southwest of Greenfield.	113	1962–2004	12-05-03	18.0
	Arroyo Seco near Greenfield, CA				01-05-04	164
					02-02-04	48.1
					03-03-04	305
					04-08-04	54.9
					04-23-04	42.8
					05-27-04	18.2

a Published as a miscellaneous measurement.

REVISION OF RECORDS FOR DISCONTINUED STATIONS

Crest-Stage Partial-Record Stations

The following table contains revisions to annual maximum discharges for discontinued crest-stage stations previously published in U.S. Geological Survey Open-File Report: Floods from Small Drainage Areas in California: A Compilation of Peak Data, October 1958 to September 1973; by Arvi O. Waananen; published December 12, 1973. 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. The years given in the period of record represent water years for which the annual maximum was obtained.

Station no.	Station name	Location	Drainage area (mi ²)	Period of record (water year)	Date	Annual maximum	
						Gage height (ft)	Discharge (ft ³ /s)
EEL RIVER BASIN							
11470700	Alder Creek near Potter Valley, CA	Lat 39°23'20", long 123°02'37", in NE 1/4 sec. 26, T.18 N., R.11 W., Lake County, Hydrologic Unit 18010103, at culvert on Valley Lake-Pillsbury Road, 5.8 mi northeast of Potter Valley.	1.39	1963-73	12-22-64	unknown	unknown
KLAMATH RIVER BASIN							
11527550	Panther Creek near Denny, CA	Lat 40°54'25", long 123°25'40", Trinity County, Hydrologic Unit 18010211, at culvert on New River Road, Trinity National Forest, 3.3 mi southwest of Denny.	5.66	1961-69	12-22-64	unknown	e1,720

e Estimated.

KLAMATH RIVER BASIN

11516750 SHASTA RIVER NEAR EDGEWOOD, CA—Continued

PH, WATER, WHOLE, FIELD, STANDARD UNITS, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	9.0	7.8	8.9	7.9	---	---	---	---	---	---	---	---
2	8.9	7.8	8.9	7.9	---	---	---	---	---	---	---	---
3	8.9	7.8	8.9	7.9	---	---	---	---	---	---	---	---
4	8.9	7.8	8.9	7.9	---	---	---	---	---	---	---	---
5	8.9	7.8	9.0	7.8	---	---	---	---	---	---	---	---
6	8.9	7.8	8.8	7.9	---	---	---	---	---	---	---	---
7	8.9	7.8	9.0	7.9	---	---	---	---	---	---	---	---
8	8.9	7.8	8.0	7.9	---	---	---	---	---	---	---	---
9	8.9	7.8	8.3	8.0	---	---	---	---	---	---	---	---
10	8.9	7.8	8.5	8.0	---	---	---	---	---	---	---	---
11	8.7	7.8	8.6	7.9	---	---	---	---	---	---	---	---
12	8.8	7.8	8.6	8.0	---	---	---	---	---	---	---	---
13	8.8	7.8	8.6	8.0	---	---	---	---	---	---	---	---
14	8.9	7.8	8.6	8.0	---	---	---	---	---	---	---	---
15	8.7	7.8	8.6	8.0	---	---	---	---	---	---	---	---
16	8.9	7.8	8.6	8.0	---	---	---	---	---	---	---	---
17	8.9	7.8	8.8	8.0	---	---	---	---	---	---	---	---
18	9.0	7.8	8.8	8.0	---	---	---	---	---	---	---	---
19	9.0	7.8	8.8	7.9	---	---	---	---	---	---	---	---
20	9.0	7.8	8.8	7.9	---	---	---	---	---	---	---	---
21	9.0	7.8	8.8	7.9	---	---	---	---	---	---	---	---
22	9.0	7.8	8.8	8.0	---	---	---	---	---	---	---	---
23	9.0	7.8	8.9	8.0	---	---	---	---	---	---	---	---
24	9.0	7.9	8.8	8.0	---	---	---	---	---	---	---	---
25	9.0	7.9	8.9	8.0	---	---	---	---	---	---	---	---
26	9.0	7.9	8.9	8.0	---	---	---	---	---	---	---	---
27	9.0	7.8	9.0	8.0	---	---	---	---	---	---	---	---
28	9.0	7.8	9.0	8.0	---	---	---	---	---	---	---	---
29	9.0	7.8	8.4	8.0	---	---	---	---	---	---	---	---
30	9.0	7.9	8.8	8.1	---	---	---	---	---	---	---	---
31	8.9	7.9	---	---	---	---	---	---	---	---	---	---
MONTH	9.0	7.8	9.0	7.8	---	---	---	---	---	---	---	---

SPECIFIC CONDUCTANCE, MICROSIEMENS/CM AT 25 DEG. C, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

	OCTOBER	NOVEMBER	DECEMBER	JANUARY	FEBRUARY	MARCH
1	219	201	171	165	---	---
2	210	201	170	165	---	---
3	208	200	176	167	---	---
4	206	197	178	169	---	---
5	204	197	180	174	---	---
6	205	197	177	172	---	---
7	205	196	178	170	---	---
8	206	194	194	171	---	---
9	205	196	195	180	---	---
10	200	187	201	192	---	---
11	187	180	200	194	---	---
12	186	179	199	190	---	---
13	184	177	199	190	---	---
14	183	178	203	185	---	---
15	183	178	205	192	---	---
16	182	176	192	188	---	---
17	183	175	194	187	---	---
18	179	169	194	187	---	---
19	176	170	191	185	---	---
20	181	172	188	183	---	---
21	181	172	192	185	---	---
22	181	171	194	181	---	---
23	177	170	182	175	---	---
24	176	169	184	177	---	---
25	175	169	183	175	---	---
26	173	167	182	175	---	---
27	177	169	181	172	---	---
28	176	168	181	172	---	---
29	174	168	221	172	---	---
30	173	166	220	201	---	---
31	172	166	---	---	---	---
MONTH	219	166	221	165	---	---

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Conversion Factors

Multiply	By	To obtain
Length		
inch (in.)	2.54×10^1	millimeter (mm)
	2.54×10^{-2}	meter
foot (ft)	3.048×10^{-1}	meter (m)
mile (mi)	1.609×10^0	kilometer (km)
Area		
acre	4.047×10^3	square meter (m ²)
	4.047×10^{-1}	square hectometer (hm ²)
	4.047×10^{-3}	square kilometer (km ²)
square mile (mi ²)	2.590×10^0	square kilometer (km ²)
Volume		
gallon (gal)	3.785×10^0	liter (L)
	3.785×10^{-3}	cubic meter (m ³)
	3.785×10^0	cubic decimeter (dm ³)
million gallons (Mgal)	3.785×10^3	cubic meter (m ³)
	3.785×10^{-3}	cubic hectometer (hm ³)
cubic foot (ft ³)	2.832×10^{-2}	cubic meter (m ³)
	2.832×10^1	cubic decimeter (dm ³)
cubic-foot-per-second-per-day [(ft ³ /s/d)]	2.447×10^3	cubic meter (m ³)
	2.447×10^{-3}	cubic hectometer (hm ³)
acre-foot (acre-ft)	1.223×10^3	cubic meter (m ³)
	1.223×10^{-3}	cubic hectometer (hm ³)
	1.223×10^{-6}	cubic kilometer (km ³)
Flow rate		
cubic foot per second (ft ³ /s)	2.832×10^1	liter (L/s)
	2.832×10^{-2}	cubic meter per second (m ³ /s)
	2.832×10^1	cubic decimeter per second (dm ³ /s)
gallon per minute (gal/min)	6.309×10^{-2}	liter per second (L/s)
	6.309×10^{-5}	cubic meter per second (m ³ /s)
	6.309×10^{-2}	cubic decimeter per second (dm ³ /s)
million gallons per day (Mgal/d)	4.381×10^{-2}	cubic meter per second
	4.381×10^1	cubic decimeter per second (dm ³ /s)
Mass		
ton, short (2,000 lb)	9.072×10^{-1}	megagram (Mg) or metric ton

Temperature in degrees Celsius (°C) may be converted to degrees Fahrenheit (°F) as follows:

$$^{\circ}\text{F} = (1.8 \times ^{\circ}\text{C}) + 32$$

