Water-Data Report 2009

11074000 Santa Ana River below Prado Dam, CA

Santa Ana River Basin

LOCATION.--Lat 33°53′00″, long 117°38′40″ referenced to North American Datum of 1927, Riverside County, CA, Hydrologic Unit 18070203, in La Sierra Grant, on left bank of outlet channel, 2,500 ft downstream from axis of Prado Dam, and 4.5 mi west of Corona.

DRAINAGE AREA.--2,258 mi^2 of which 768 mi^2 probably is noncontributing, above Lake Elsinore.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--May 1930 to November 1939 (irrigation seasons only), March 1940 to current year. Published as "at Santa Fe Railroad Bridge, near Prado" May 1930 to November 1931, as "at Atchison, Topeka, and Santa Fe Railroad Bridge, near Prado" May 1932 to November 1939, and as "below Prado Dam, near Prado" March 1940 to September 1950.

GAGE.--Water-stage recorder and concrete control August 1944 through Apr. 25, 2005, and since Nov. 14, 2005. Datum of gage is approximately 449 ft above NGVD of 1929 (levels by U.S. Army Corps of Engineers). Prior to Mar. 18, 1940, at about same site at various datums. From Apr. 26, 2005, to Nov. 13, 2005, gage was located on right bank of a temporary bypass (diversion) channel, in use during the construction of an improved outlet channel from Prado Dam. Temporary gage was at a different datum. From Nov. 14, 2005 to Oct. 7, 2008, gage was located on right bank of reconstructed outlet channel. Since Oct. 7, 2008, gage is located on left bank of channel.

REMARKS.--Records good except for estimated daily discharges, which are poor. Flow regulated since 1940 by Prado Flood-Control Reservoir, capacity, 196,200 acre-ft. Natural streamflow affected by extensive ground-water withdrawals, diversion for irrigation, discharges of treated effluent, and return flow from irrigated areas. Releases of imported water are made to the basin by the California Water Project at times in some years, via San Antonio Creek from Rialto Pipeline below San Antonio Dam. During the current year, no California Water Project releases were made. See schematic diagram of Santa Ana River Basin available from the California Water Science Center.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 13,200 ft^3/s, Jan. 15, 2005, gage height, 8.73 ft, site and datum then in use, from rating curve extended above 11,600 ft^3/s; minimum daily, 2.4 ft^3/s, July 29 to Aug. 3, Sept. 20, 1978 (result of gate closure).

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Mar. 2, 1938, reached a discharge of 100,000 ft^3/s, on basis of slope-area measurement of peak flow at site 2.5 mi downstream.

11074000 Santa Ana River below Prado Dam, CA—Continued

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009
DAILY MEAN VALUES
[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	122	137	321	487	233	301	256	160	145	110	104	77
2	122	159	387	479	e292	274	379	155	136	108	109	81
3	131	166	381	472	199	324	299	162	135	100	114	77
4	137	200	380	466	205	266	199	159	143	104	102	75
5	141	169	367	478	185	330	179	149	141	103	99	77
6	145	e119	339	491	236	334	175	150	147	107	86	84
7	139	153	299	481	239	335	144	152	151	101	87	85
8	134	142	245	463	258	333	169	142	144	97	91	98
9	120	152	228	440	1,300	331	171	143	145	103	93	92
10	125	159	202	406	1,750	354	178	151	144	97	99	96
11	132	158	212	385	500	379	183	153	147	97	94	95
12	134	175	215	369	512	376	186	151	146	97	92	94
13	130	170	222	370	639	371	188	155	149	99	96	110
14	133	165	227	266	1,110	365	186	156	146	102	98	114
15	134	151	252	219	954	361	165	155	145	90	105	119
16	137	146	387	214	478	366	177	160	131	90	107	111
17	136	144	580	213	1,730	366	170	165	123	91	111	112
18	137	117	2,040	213	912	362	167	173	126	92	111	103
19	141	175	928	212	504	366	163	152	123	101	108	100
20	148	162	467	211	423	346	182	152	127	102	104	110
21	147	162	461	212	419	331	161	150	126	89	104	111
22	142	166	492	213	418	325	157	144	125	88	101	102
23	131	174	409	211	417	314	162	146	124	89	104	106
24	131	178	459	208	410	310	161	144	124	85	107	102
25	132	133	454	209	221	e345	164	141	128	90	98	105
26	133	174	464	238	190	364	163	144	121	96	89	101
27	142	234	462	257	250	367	165	144	118	98	87	109
28	150	238	460	251	294	366	149	136	116	89	87	103
29	141	243	467	250	---	364	150	137	115	96	85	103
30	139	246	473	246	---	371	152	142	118	102	79	107
31	134	---	487	237	---	359	---	146	---	107	84	---
Total	4,200	5,067	13,767	9,867	15,278	10,656	5,500	4,669	4,009	3,020	3,035	2,959
Mean	135	169	444	318	546	344	183	151	134	97.4	97.9	98.6
Max	150	246	2,040	491	1,750	379	379	173	151	110	114	119
Min	120	117	202	208	185	266	144	136	115	85	79	75
Ac-ft	8,330	10,050	27,310	19,570	30,300	21,140	10,910	9,260	7,950	5,990	6,020	5,870

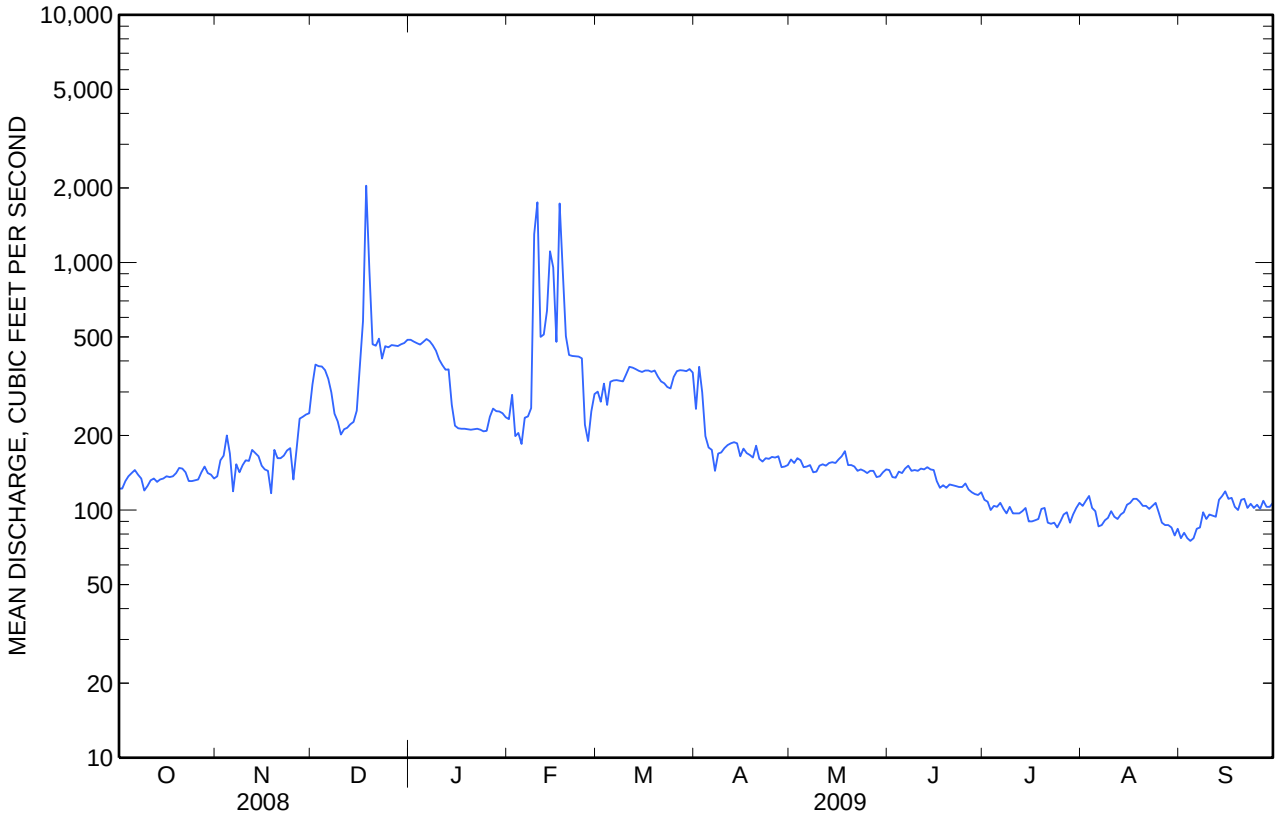
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1941 - 2009, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	130	150	222	369	440	401	265	191	156	128	108	103
Max	910	322	709	3,543	2,733	2,556	1,101	915	736	446	402	372
(WY)	(2005)	(1997)	(1967)	(1993)	(1998)	(1980)	(1980)	(1998)	(1983)	(1998)	(2005)	(1997)
Min	22.4	33.5	39.5	49.2	49.8	54.3	43.3	35.2	29.0	17.7	14.8	16.2
(WY)	(1962)	(1963)	(1963)	(1963)	(1961)	(1961)	(1961)	(1961)	(1961)	(1960)	(1960)	(1960)

11074000 Santa Ana River below Prado Dam, CA—Continued

SUMMARY STATISTICS

	Calendar Year 2008		Water Year 2009		Water Years 1941 - 2009	
Annual total	99,468		82,027			
Annual mean	272		225		221	
Highest annual mean					882	2005
Lowest annual mean					36.4	1961
Highest daily mean	2,570	Jan 28	2,040	Dec 18	11,400	Jan 14, 2005
Lowest daily mean	73	Jul 1	75	Sep 4	2.4	Jul 29, 1978
Annual seven-day minimum	113	Jun 27	79	Aug 30	3.0	Sep 24, 1973
Maximum peak flow			2,350	Feb 9	13,200	Jan 15, 2005
Maximum peak stage			5.81	Feb 9	8.73	Jan 15, 2005
Annual runoff (ac-ft)	197,300		162,700		160,000	
10 percent exceeds	467		418		386	
50 percent exceeds	170		152		138	
90 percent exceeds	126		97		41	



11074000 Santa Ana River below Prado Dam, CA—Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1967 to current year.
CHEMICAL DATA: Water years 1967 to current year.
SPECIFIC CONDUCTANCE: Water years 1968, 1970 to current year.
WATER TEMPERATURE: Water years 1968 (monthly max/min only), 1970 to current year.
BIOLOGICAL DATA: Water years 1975-81.
CHLORIDE: Water year 1971.
SEDIMENT DATA: Water years 1974-94, 1999 to current year.

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: February 1968 to current year.
WATER TEMPERATURE: October 1969 to current year.
CHLORIDE: October 1970 to September 1971.
SUSPENDED-SEDIMENT DISCHARGE: October 1973 to June 1982.

INSTRUMENTATION.--Water-quality monitor recording specific conductance and water temperature since October 1969.

REMARKS.--Specific conductance and water temperature records are affected by releases from Prado Dam. Interruptions in record at times due to malfunction of recording or sensing equipment. Sediment data and a portion of chemical data collected for the National Water-Quality Assessment (NAWQA) Program.
Specific conductance records rated good except for Oct. 1-7, which are rated fair; and Oct. 8 to Dec. 23, which are rated poor.
Water temperature records rated excellent.

EXTREMES FOR PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: Maximum recorded, 1,830 microsiemens, Apr. 30, 1971; minimum recorded, 150 microsiemens, Jan. 5, 2008.
WATER TEMPERATURE: Maximum recorded, 36.0°C, Sept. 4, 1972, Sept. 8, 1984; minimum recorded, 2.5°C, Dec. 30, 1969.
SEDIMENT CONCENTRATION: Maximum daily mean, 2,870 mg/L, Mar. 5, 1978; minimum daily mean, 3 mg/L, Apr. 2, 1980, and several days during 1982.
SEDIMENT LOAD: Maximum daily, 18,900 tons, Mar. 5, 1978; minimum daily, 0.58 ton, Sept. 20, 1978.

EXTREMES FOR CURRENT YEAR.--
SPECIFIC CONDUCTANCE: Maximum recorded, 1,210 microsiemens, Feb. 2; minimum recorded, 355 microsiemens, Feb. 10.
WATER TEMPERATURE: Maximum recorded, 27.1°C, July 20, 22; minimum recorded, 8.6°C, Dec. 18.

11074000 Santa Ana River below Prado Dam, CA—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009

Date	Time	Temperature, air, deg C (00020)	Instantaneous discharge, ft³/s (00061)	Specific conductance, wat unf µS/cm @ 25 degC (00095)	Temperature, water, deg C (00010)	Dissolved solids dried @ 180degC wat flt mg/L (70300)
Oct						
07...	0915	30.0	150	1,050	21.0	630
20...	1015	27.5	150	1,020	19.1	616
Nov						
03...	0940	25.0	174	1,020	19.2	624
14...	0955	31.0	170	1,040	18.1	622
Dec						
08...	1000	16.5	250	1,100	16.6	665
23...	1200	21.5	450	518	10.6	313
Jan						
02...	1035	10.5	484	696	11.1	419
23...	1015	18.0	213	1,110	16.4	677
Feb						
02...	1010	25.0	479	1,150	15.1	707
24...	0945	23.0	411	660	14.6	393
Mar						
06...	0800	19.5	335	750	14.4	455
25...	1000	18.0	358	1,050	17.1	613
Apr						
07...	1115	25.0	115	1,090	19.2	671
21...	1020	32.0	179	1,110	21.6	675
May						
01...	1015	25.5	160	1,070	20.2	642
15...	0955	26.5	157	1,080	22.2	631
Jun						
02...	1015	26.0	140	1,070	22.1	654
29...	0935	27.0	114	1,060	24.6	620
Jul						
07...	1150	24.5	102	1,070	24.2	633
28...	1000	25.5	84	1,120	25.8	655
Aug						
10...	0955	33.0	108	1,040	23.6	616
21...	0930	31.5	112	1,080	23.5	649
Sep						
08...	0925	20.0	100	1,080	23.4	650
24...	0935	26.5	106	986	22.0	592

11074000 Santa Ana River below Prado Dam, CA—Continued

WATER-QUALITY DATA
(NATIONAL WATER-QUALITY ASSESSMENT (NAWQA) PROGRAM)
WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009

Part 1 of 8

[Remark codes: <, less than; E, estimated.]

Date	Time	Barometric pressure, mm Hg (00025)	Temperature, air, deg C (00020)	Instantaneous discharge, ft³/s (00061)	Dissolved oxygen, mg/L (00300)	Dissolved oxygen, percent of saturation (00301)	pH, water, unfltrd field, std units (00400)	Specific conductance, wat unf µS/cm @ 25 degC (00095)	Temperature, water, deg C (00010)	Alkalinity, wat flt inf tit field, mg/L as CaCO3 (39086)	Bicarbonate, wat flt infl pt titr., field, mg/L (00453)	Carbonate, wat flt infl pt titr., field, mg/L (00452)	Chloride, water, fltrd, mg/L (00940)
Oct													
22...	0945	751	29.5	148	8.9	99	8.1	1,050	19.5	210	256	--	121
Nov													
13...	1315	748	27.0	168	10.6	112	8.1	1,020	17.0	205	247	2	117
Dec													
09...	1315	758	--	227	12.0	120	7.9	1,020	15.0	214	261	--	128
Jan													
12...	1545	753	--	362	9.8	94	8.0	1,080	13.0	229	279	--	129
28...	1445	754	23.0	247	10.4	101	8.1	1,050	13.5	216	263	--	121
Feb													
11...	1430	754	17.0	502	9.7	102	7.8	519	17.0	109	133	--	51.2
23...	1345	754	--	422	9.9	96	8.0	658	13.5	140	171	--	66.2
Mar													
09...	1430	751	16.0	327	12.0	122	8.5	820	15.5	167	195	4	96.6
24...	1115	753	21.5	313	9.0	95	8.1	1,030	17.0	225	270	2	124
Apr													
09...	1415	750	--	171	9.2	99	8.1	1,100	18.0	231	276	3	130
24...	1015	751	19.5	164	8.9	100	8.1	1,100	20.0	228	274	2	134
May													
08...	1000	746	27.0	142	10.6	126	8.2	1,080	22.5	194	232	2	134
21...	1430	748	28.5	148	9.8	117	8.1	1,060	23.0	184	219	2	134
Jun													
04...	1200	750	22.0	148	8.8	101	8.0	1,050	21.0	207	248	2	132
17...	1300	748	25.0	122	9.4	111	8.2	1,100	22.5	219	262	2	132
Jul													
15...	1200	750	31.0	93	9.4	116	8.4	1,070	25.0	205	242	4	134
Aug													
10...	1530	748	31.0	93	11.0	135	8.3	1,070	24.5	209	250	3	132
Sep													
01...	1530	747	34.0	78	9.1	115	8.2	1,120	26.0	215	254	4	133

11074000 Santa Ana River below Prado Dam, CA—Continued

WATER-QUALITY DATA
(NATIONAL WATER-QUALITY ASSESSMENT (NAWQA) PROGRAM)
WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009

Part 2 of 8

[Remark codes: <, less than; E, estimated.]

Date	Sulfate water, fltrd, mg/L (00945)	Ammonia water, fltrd, mg/L as N (00608)	Nitrate + nitrite water, fltrd, mg/L as N (00631)	Nitrite water, fltrd, mg/L as N (00613)	Ortho-phos-phate, water, fltrd, mg/L as P (00671)	Phos-phorus, water, unfltrd mg/L as P (00665)	Total nitro-gen, wat unf by anal ysis, mg/L (62855)	1-Naph-thol, water, fltrd 0.7µ GF µg/L (49295)	2,6-Di-ethyl-aniline water, fltrd 0.7µ GF µg/L (82660)	2Chloro -2',6'-diethyl acet-anilide wat flt µg/L (61618)	CIAT, water, fltrd, µg/L (04040)	2-Ethyl-6-methyl-aniline wat flt µg/L (61620)	3,4-Di-chloro-aniline water, fltrd, µg/L (61625)
Oct													
22...	106	.057	4.84	.072	1.29	1.32	5.53	<.04	<.006	<.010	E.010	<.010	E.012
Nov													
13...	99.0	.037	6.18	.031	1.19	1.21	6.84	<.04	<.006	<.010	E.011	<.010	E.003
Dec													
09...	108	.125	5.51	.039	1.04	1.11	6.10	<.04	<.006	<.008	E.012	<.010	E.017
Jan													
12...	108	.038	3.69	.075	.953	1.16	4.68	<.04	<.006	<.010	<.014	<.010	E.016
28...	113	.039	4.59	.049	.991	1.04	5.42	<.04	<.006	<.010	<.014	<.010	E.015
Feb													
11...	54.1	.112	2.32	.045	.487	.56	3.20	<.04	<.006	<.010	<.014	<.010	E.046
23...	64.9	<.020	3.02	.056	.705	.75	3.63	<.04	<.006	<.010	<.014	<.010	E.025
Mar													
09...	92.5	E.011	1.90	.057	.501	.54	2.62	<.04	<.006	<.010	<.014	<.010	E.013
24...	99.9	E.014	2.86	.076	.844	.84	3.37	<.04	<.006	<.010	<.014	<.010	<.004
Apr													
09...	110	.096	4.78	.075	.933	1.02	5.56	<.04	<.006	<.010	E.013	<.010	E.011
24...	114	.067	4.59	.077	.934	1.08	5.09	<.04	<.006	<.010	E.013	<.010	E.015
May													
08...	109	.140	3.77	.086	1.06	1.15	4.55	<.04	<.006	<.010	E.011	<.010	E.019
21...	104	.044	3.52	.072	1.00	1.14	4.42	<.04	<.006	<.010	<.014	<.010	E.015
Jun													
04...	102	.052	4.09	.076	1.04	1.10	4.75	<.04	<.006	<.010	E.011	<.010	E.013
17...	109	<.020	4.17	.031	1.12	1.18	4.70	<.04	<.006	<.010	E.010	<.010	E.010
Jul													
15...	106	<.020	3.69	.076	1.26	1.27	4.39	<.04	<.006	<.010	<.014	<.010	<.010
Aug													
10...	110	E.017	3.90	.064	1.06	1.10	4.50	<.04	<.006	<.010	E.011	<.010	E.012
Sep													
01...	116	<.020	3.53	.053	1.03	1.05	4.14	<.04	<.006	<.010	<.015	<.010	<.004

11074000 Santa Ana River below Prado Dam, CA—Continued

WATER-QUALITY DATA
(NATIONAL WATER-QUALITY ASSESSMENT (NAWQA) PROGRAM)
WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009

Part 3 of 8

[Remark codes: <, less than; E, estimated.]

Date	3,5-Dichloroaniline water, fltrd, µg/L (61627)	4-Chloro-2-methylphenol, wat flt µg/L (61633)	Acetochlor, water, fltrd, µg/L (49260)	Alachlor, water, fltrd, µg/L (46342)	alpha-Endosulfan, water, fltrd, µg/L (34362)	Atrazine, water, fltrd, µg/L (39632)	Azinphosmethyl oxon, water, fltrd, µg/L (61635)	Azinphosmethyl, water, fltrd 0.7µ GF µg/L (82686)	Benfluralin, water, fltrd 0.7µ GF µg/L (82673)	Carbaryl, water, fltrd 0.7µ GF µg/L (82680)	Carbofuran, water, fltrd 0.7µ GF µg/L (82674)	Chlorpyrifos oxon, water, fltrd, µg/L (61636)	Chlorpyrifos water, fltrd, µg/L (38933)
Oct													
22...	<.004	<.005	<.010	<.008	<.006	E.006	<.04	<.120	<.014	<.200	<.060	<.05	<.010
Nov													
13...	<.004	<.005	<.010	<.008	<.008	<.009	<.04	<.120	<.014	E.012	<.060	<.05	<.010
Dec													
09...	<.004	<.005	<.010	<.015	<.006	.009	<.04	<.120	<.014	<.200	<.060	<.05	<.010
Jan													
12...	<.004	<.005	<.010	<.011	<.006	<.007	<.04	<.120	<.014	E.018	<.060	<.05	<.010
28...	<.004	<.005	<.010	<.008	<.006	<.009	<.04	<.120	<.014	E.013	<.060	<.05	<.010
Feb													
11...	<.004	<.005	<.010	<.008	<.006	<.007	<.04	<.120	<.014	E.018	<.060	<.05	<.010
23...	<.004	<.005	<.010	<.008	<.006	<.007	<.04	<.120	<.014	E.011	<.060	<.05	<.010
Mar													
09...	<.004	<.005	<.010	<.008	<.006	<.007	<.04	<.120	<.014	<.200	<.060	<.05	<.010
24...	<.004	<.005	<.010	<.008	<.006	<.007	<.04	<.120	<.014	<.200	<.060	<.05	<.010
Apr													
09...	<.004	<.005	<.010	<.008	<.008	.008	<.04	<.120	<.014	<.200	<.060	<.05	<.010
24...	<.004	<.005	<.010	<.010	<.006	.008	<.04	<.120	<.014	<.200	<.060	<.05	<.010
May													
08...	<.004	<.005	<.010	<.008	<.006	E.007	<.04	<.120	<.014	<.200	<.060	<.05	<.010
21...	<.004	<.005	<.010	<.008	<.006	<.011	<.04	<.120	<.014	<.200	<.060	<.05	<.010
Jun													
04...	<.004	<.005	<.010	<.016	<.006	.010	<.04	<.120	<.014	<.200	<.060	<.05	<.010
17...	<.004	<.005	<.010	<.008	<.006	E.007	<.04	<.120	<.014	<.200	<.060	<.05	<.010
Jul													
15...	<.004	<.005	<.010	<.008	<.008	E.007	<.04	<.120	<.014	<.200	<.060	<.05	<.010
Aug													
10...	<.004	<.005	<.010	<.008	<.006	.012	<.04	<.120	<.014	<.200	<.060	<.05	<.010
Sep													
01...	<.004	<.005	<.010	.014	<.006	<.010	<.04	<.120	<.014	E.025	<.060	<.05	<.010

11074000 Santa Ana River below Prado Dam, CA—Continued

WATER-QUALITY DATA
(NATIONAL WATER-QUALITY ASSESSMENT (NAWQA) PROGRAM)
WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009

Part 4 of 8

[Remark codes: <, less than; E, estimated.]

Date	cis-Permethrin water fltrd 0.7µ GF µg/L (82687)	cis-Propiconazole, water, fltrd, µg/L (79846)	Cyanazine, water, fltrd, µg/L (04041)	Cyfluthrin, water, fltrd, µg/L (61585)	Cypermethrin water, fltrd, µg/L (61586)	DCPA, water, fltrd 0.7µ GF µg/L (82682)	Desulfinylfipronil amide, wat flt µg/L (62169)	Desulfinylfipronil, water, fltrd, µg/L (62170)	Diazinon, water, fltrd, µg/L (39572)	Diazoxon, water, fltrd, µg/L (61638)	Dichlorvos, water, fltrd, µg/L (38775)	Dicrotophos, water, fltrd, µg/L (38454)	Dieldrin, water, fltrd, µg/L (39381)
Oct													
22...	<.014	<.006	<.040	<.016	<.020	E.006	<.029	E.005	<.005	--	<.02	<.08	<.009
Nov													
13...	<.014	<.006	<.040	<.016	<.020	E.005	<.029	E.007	<.005	--	<.02	<.08	<.009
Dec													
09...	<.014	<.006	<.040	<.016	<.020	E.004	E.002	E.006	<.005	--	<.02	<.08	<.009
Jan													
12...	<.014	<.006	<.040	<.016	<.020	.016	E.006	E.007	.017	--	<.02	<.08	<.009
28...	<.014	<.006	<.040	<.016	<.020	E.006	<.029	E.007	<.005	--	<.02	<.08	<.009
Feb													
11...	<.014	E.013	<.040	<.016	<.020	.018	E.007	E.009	<.008	--	<.02	<.08	<.009
23...	<.014	E.009	<.040	<.016	<.020	.012	E.006	E.008	<.005	--	<.02	<.08	<.009
Mar													
09...	<.014	E.012	<.040	<.016	<.020	E.006	E.005	E.007	<.005	--	<.02	<.08	<.009
24...	<.014	<.006	<.040	<.016	<.020	E.005	<.029	E.008	<.005	--	<.02	<.08	<.009
Apr													
09...	<.014	<.006	<.040	<.016	<.020	E.002	<.029	E.006	<.005	--	<.02	<.08	<.009
24...	<.014	<.006	<.040	<.016	<.020	E.003	<.029	E.006	<.010	--	<.02	<.08	<.009
May													
08...	<.014	<.006	<.040	<.016	<.020	E.002	E.005	E.007	<.005	--	<.02	<.08	<.009
21...	<.014	<.006	<.040	<.016	<.020	E.002	<.029	E.006	<.005	--	<.02	<.08	<.009
Jun													
04...	<.014	<.006	<.040	<.016	<.020	<.006	E.004	E.008	<.009	--	<.02	<.08	<.009
17...	<.014	<.006	<.040	<.016	<.020	<.006	E.002	E.005	<.005	--	<.02	<.08	<.009
Jul													
15...	<.014	<.006	<.040	<.016	<.020	E.003	<.029	E.006	<.005	<.01	<.02	<.08	<.009
Aug													
10...	<.014	<.006	<.040	<.016	<.020	E.002	E.005	E.007	<.005	<.01	<.02	<.08	<.009
Sep													
01...	<.014	<.006	<.040	<.016	<.020	E.003	<.029	.012	<.005	<.01	<.02	<.08	<.009

11074000 Santa Ana River below Prado Dam, CA—Continued

WATER-QUALITY DATA
(NATIONAL WATER-QUALITY ASSESSMENT (NAWQA) PROGRAM)
WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009

Part 5 of 8

[Remark codes: <, less than; E, estimated.]

Date	Dimethoate, water, fltrd 0.7µ GF µg/L (82662)	Disulfoton sulfone water, fltrd, µg/L (61640)	Disulfoton, water, fltrd 0.7µ GF µg/L (82677)	Endosulfan sulfate water, fltrd, µg/L (61590)	EPTC, water, fltrd 0.7µ GF µg/L (82668)	Ethion monoxon water, fltrd, µg/L (61644)	Ethion, water, fltrd, µg/L (82346)	Ethoprop, water, fltrd 0.7µ GF µg/L (82672)	Fenamiphos sulfone water, fltrd, µg/L (61645)	Fenamiphos sulfoxide, water, fltrd, µg/L (61646)	Fenamiphos, water, fltrd, µg/L (61591)	Fipronil sulfide water, fltrd, µg/L (62167)	Fipronil sulfone water, fltrd, µg/L (62168)
Oct													
22...	<.006	<.01	<.04	<.022	<.003	<.02	<.012	<.016	<.053	<.08	<.03	E.004	<.024
Nov													
13...	<.006	<.01	<.04	<.022	<.002	<.02	<.012	<.016	<.053	<.08	<.03	E.007	<.024
Dec													
09...	<.006	<.01	<.04	<.022	<.002	<.02	<.012	<.016	<.053	<.08	<.03	E.005	<.024
Jan													
12...	<.006	<.01	<.04	<.022	<.002	<.02	<.012	<.016	<.053	<.08	<.03	E.007	E.008
28...	<.006	<.01	<.04	<.022	<.002	<.02	<.012	<.016	<.053	<.08	<.03	E.007	<.024
Feb													
11...	<.006	<.01	<.04	<.022	<.002	<.02	<.012	<.016	<.053	<.08	<.03	E.007	<.024
23...	<.006	<.01	<.04	<.022	<.002	<.02	<.012	<.016	<.053	<.08	<.03	E.007	E.008
Mar													
09...	<.006	<.01	<.04	<.022	<.002	<.02	<.012	<.016	<.053	<.08	<.03	E.004	<.024
24...	<.006	<.01	<.04	<.022	<.002	<.02	<.012	<.016	<.053	<.08	<.03	E.005	<.024
Apr													
09...	<.006	<.01	<.04	<.022	<.002	<.02	<.012	<.016	<.053	<.08	<.03	E.006	<.024
24...	<.008	<.01	<.04	<.022	<.004	<.02	<.012	<.016	<.053	<.08	<.03	E.004	<.024
May													
08...	<.006	<.01	<.04	<.022	<.003	<.02	<.012	<.016	<.053	<.08	<.03	E.005	<.024
21...	<.006	<.01	<.04	<.022	<.002	<.02	<.012	<.016	<.053	<.08	<.03	<.013	<.024
Jun													
04...	<.006	<.01	<.04	<.022	<.002	<.02	<.012	<.016	<.053	<.08	<.03	E.006	<.024
17...	<.007	<.01	<.04	<.022	<.003	<.02	<.012	<.016	<.053	<.08	<.03	E.003	<.024
Jul													
15...	<.006	<.01	<.04	<.022	<.002	<.02	<.012	<.016	<.053	<.08	<.03	E.004	<.024
Aug													
10...	<.007	<.01	<.04	<.022	<.003	<.02	<.012	<.016	<.053	<.08	<.03	E.005	E.006
Sep													
01...	<.006	<.01	<.04	<.022	<.002	<.02	<.012	<.016	<.053	--	<.03	E.005	<.024

11074000 Santa Ana River below Prado Dam, CA—Continued

WATER-QUALITY DATA
(NATIONAL WATER-QUALITY ASSESSMENT (NAWQA) PROGRAM)
WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009

Part 6 of 8

[Remark codes: <, less than; E, estimated.]

Date	Fipronil, water, fltrd, µg/L (62166)	Fonofos water, fltrd, µg/L (04095)	Hexazinone, water, fltrd, µg/L (04025)	Iprodione, water, fltrd, µg/L (61593)	Isofenphos, water, fltrd, µg/L (61594)	lambda-Cyhalothrin, water, fltrd, µg/L (61595)	Malaoxon, water, fltrd, µg/L (61652)	Malathion, water, fltrd, µg/L (39532)	Metalaxyl, water, fltrd, µg/L (61596)	Methidathion, water, fltrd, µg/L (61598)	Methyl paraoxon, water, fltrd, µg/L (61664)	Methyl parathion, water, fltrd 0.7µ GF µg/L (82667)	Metolachlor, water, fltrd, µg/L (39415)
Oct													
22...	E.005	<.010	<.008	<.014	<.006	<.010	<.080	<.020	<.007	<.006	<.01	<.008	<.014
Nov													
13...	E.008	<.010	<.008	<.014	<.006	<.010	<.080	<.020	<.007	<.006	<.01	<.008	<.014
Dec													
09...	E.005	<.010	<.008	<.014	<.006	<.010	<.080	<.020	<.007	<.006	<.01	<.008	<.014
Jan													
12...	E.009	<.010	.013	<.014	<.006	<.010	<.080	<.020	<.007	<.006	<.01	<.008	<.014
28...	E.011	<.010	.047	<.014	<.006	<.010	<.080	<.020	<.007	<.006	<.01	<.008	<.014
Feb													
11...	E.020	<.010	.497	<.014	<.006	<.010	<.080	.024	<.007	<.006	<.01	<.008	<.014
23...	E.013	<.010	.132	<.014	<.006	<.010	<.080	<.020	<.007	<.006	<.01	<.008	<.014
Mar													
09...	<.040	<.010	.037	<.014	<.006	<.010	<.080	<.020	<.007	<.006	<.01	<.008	<.014
24...	<.040	<.010	.032	<.014	<.006	<.010	<.080	<.020	<.007	<.006	<.01	<.008	<.014
Apr													
09...	<.040	<.010	.017	<.014	<.006	<.010	<.080	<.020	<.007	<.006	<.01	<.008	<.014
24...	E.004	<.010	<.010	<.014	<.006	<.010	<.080	<.020	<.007	<.006	<.01	<.008	<.014
May													
08...	E.006	<.010	<.013	<.014	<.006	<.010	<.080	<.020	<.007	<.006	<.01	<.008	<.014
21...	<.040	<.010	<.008	<.014	<.006	<.010	<.080	<.020	<.007	<.006	<.01	<.008	<.014
Jun													
04...	E.010	<.010	.025	<.014	<.006	<.010	<.080	<.020	<.007	<.006	<.01	<.008	<.014
17...	E.004	<.010	<.011	<.014	<.006	<.010	<.080	<.020	<.007	<.006	<.01	<.008	<.014
Jul													
15...	E.005	<.010	<.008	<.014	<.006	<.010	<.080	<.020	<.007	<.006	<.01	<.008	<.014
Aug													
10...	E.006	<.010	<.008	<.014	<.006	<.010	<.080	<.020	<.030	<.006	<.01	<.008	<.014
Sep													
01...	<.040	<.010	<.008	<.014	<.006	<.010	<.080	<.020	<.007	<.006	<.01	<.008	<.014

11074000 Santa Ana River below Prado Dam, CA—Continued

WATER-QUALITY DATA
(NATIONAL WATER-QUALITY ASSESSMENT (NAWQA) PROGRAM)
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Part 7 of 8

[Remark codes: <, less than; E, estimated.]

Date	Metribuzin, water, fltrd, µg/L (82630)	Molinate, water, fltrd 0.7µ GF µg/L (82671)	Myclobutanil water, fltrd, µg/L (61599)	Oxyfluorfen, water, fltrd, µg/L (61600)	Pendimethalin, water, fltrd 0.7µ GF µg/L (82683)	Phorate oxon, water, fltrd, µg/L (61666)	Phorate water, fltrd 0.7µ GF µg/L (82664)	Phosmet oxon, water, fltrd, µg/L (61668)	Phosmet water, fltrd, µg/L (61601)	Prometon, water, fltrd, µg/L (04037)	Prometryn, water, fltrd, µg/L (04036)	Propanil, water, fltrd 0.7µ GF µg/L (82679)	Propargite, water, fltrd 0.7µ GF µg/L (82685)
Oct													
22...	<.016	<.002	<.010	<.006	<.012	<.03	<.020	<.05	<.200	E.01	<.006	<.014	<.02
Nov													
13...	<.016	<.005	<.010	<.006	<.012	<.03	<.020	<.05	<.200	E.01	<.006	<.014	<.02
Dec													
09...	<.016	<.002	<.010	<.006	<.012	<.03	<.020	<.05	<.200	.01	<.006	<.014	<.02
Jan													
12...	<.016	<.002	<.010	<.006	<.012	<.03	<.020	<.05	<.200	.02	<.006	<.014	<.02
28...	<.016	<.005	<.010	<.006	.018	<.03	<.020	<.05	<.200	.02	<.006	<.014	<.02
Feb													
11...	<.016	<.002	<.010	<.006	.047	<.03	<.020	--	<.200	.02	<.006	<.014	<.02
23...	<.016	<.002	<.010	<.006	<.022	<.03	<.020	<.05	<.200	E.01	<.006	<.014	<.02
Mar													
09...	<.016	<.002	<.010	<.006	<.012	<.03	<.020	<.05	<.200	.02	<.006	<.014	<.02
24...	<.016	<.002	<.010	<.006	<.012	<.03	<.020	<.05	<.200	.02	<.006	<.014	<.02
Apr													
09...	<.016	<.002	<.010	<.006	<.012	<.03	<.020	<.05	<.200	.02	<.006	<.014	<.02
24...	<.016	<.002	<.010	<.006	<.012	<.03	<.020	<.05	<.200	.03	<.006	<.014	<.02
May													
08...	<.016	<.002	<.010	<.006	<.012	<.03	<.020	<.05	<.200	<.01	<.006	<.014	<.02
21...	<.016	<.002	<.010	<.006	<.012	<.03	<.020	--	--	<.01	<.006	<.014	<.02
Jun													
04...	<.016	<.002	<.010	<.006	<.012	<.03	<.020	<.05	<.200	.01	<.006	<.014	<.02
17...	<.016	<.004	<.010	<.006	<.012	<.03	<.020	<.05	<.200	.05	<.006	<.014	<.02
Jul													
15...	<.016	<.002	<.010	<.006	<.012	<.03	<.020	<.05	<.200	.01	<.006	<.014	<.02
Aug													
10...	<.016	<.004	<.010	<.006	<.012	<.04	<.020	<.05	<.200	.02	<.006	<.014	<.02
Sep													
01...	<.016	<.002	<.010	<.006	<.012	<.03	<.020	--	<.200	.02	<.006	<.014	<.02

11074000 Santa Ana River below Prado Dam, CA—Continued

WATER-QUALITY DATA
(NATIONAL WATER-QUALITY ASSESSMENT (NAWQA) PROGRAM)
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Part 8 of 8

[Remark codes: <, less than; E, estimated.]

Date	Propyzamide, water, fltrd 0.7µ GF µg/L (82676)	Simazine, water, fltrd, µg/L (04035)	Tebuconazole, water, fltrd, µg/L (62852)	Tebuthiuron water, fltrd 0.7µ GF µg/L (82670)	Tefluthrin, water, fltrd, µg/L (61606)	Terbufos oxon sulfone water, fltrd, µg/L (61674)	Terbufos, water, fltrd 0.7µ GF µg/L (82675)	Terbuthylazine, water, fltrd, µg/L (04022)	Thiobencarb water, fltrd 0.7µ GF µg/L (82681)	trans-Propiconazole, water, fltrd, µg/L (79847)	Tribuphos, water, fltrd, µg/L (61610)	Trifluralin, water, fltrd 0.7µ GF µg/L (82661)
Oct												
22...	<.004	.022	--	<.02	<.006	<.14	<.02	<.01	<.016	<.02	<.240	<.012
Nov												
13...	<.004	.078	--	<.02	<.010	<.04	<.02	<.01	<.016	<.02	<.035	<.012
Dec												
09...	<.004	.056	--	<.02	<.008	<.28	<.02	<.01	<.016	<.02	<.100	<.012
Jan												
12...	<.008	.075	--	<.03	<.010	<.12	<.02	<.01	<.016	<.02	<.035	<.012
28...	<.004	.218	--	<.02	<.010	<.12	<.02	<.01	<.016	<.02	<.035	<.012
Feb												
11...	<.004	.209	--	<.03	<.010	<.04	<.02	<.01	<.016	E.02	<.035	<.012
23...	<.004	.082	--	.03	<.010	<.04	<.02	<.01	<.016	E.02	<.035	<.012
Mar												
09...	<.004	.061	--	.04	<.010	<.04	<.02	<.01	<.016	E.01	<.035	<.012
24...	<.004	.083	--	<.02	<.010	<.04	<.02	<.01	<.016	<.02	<.035	<.012
Apr												
09...	<.004	.052	--	<.02	<.010	<.04	<.02	<.01	<.016	<.02	<.035	<.012
24...	<.004	.050	--	<.02	<.010	<.04	<.02	<.01	<.016	<.02	<.300	<.012
May												
08...	<.004	.052	--	<.02	<.010	<.15	<.02	<.01	<.016	<.02	<.250	<.012
21...	<.004	.049	--	<.02	<.010	<.04	<.02	<.01	<.016	<.02	<.035	<.012
Jun												
04...	<.004	.071	--	<.02	<.010	<.04	<.02	<.01	<.016	<.02	<.035	<.012
17...	<.004	.031	--	<.02	<.010	<.11	<.02	<.01	<.016	<.02	<.060	<.012
Jul												
15...	<.004	.032	<.02	<.02	<.010	<.04	<.02	<.01	<.016	<.02	<.200	<.012
Aug												
10...	<.004	.025	<.02	<.03	<.010	<.04	<.02	.02	<.016	<.02	<.200	<.012
Sep												
01...	<.004	.027	<.02	<.02	<.010	<.04	<.02	.01	<.016	<.02	<.035	<.012

11074000 Santa Ana River below Prado Dam, CA—Continued

SPECIFIC CONDUCTANCE, WATER, UNFILTERED, MICROSIEMENS PER CENTIMETER AT 25 DEGREES CELSIUS
WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009

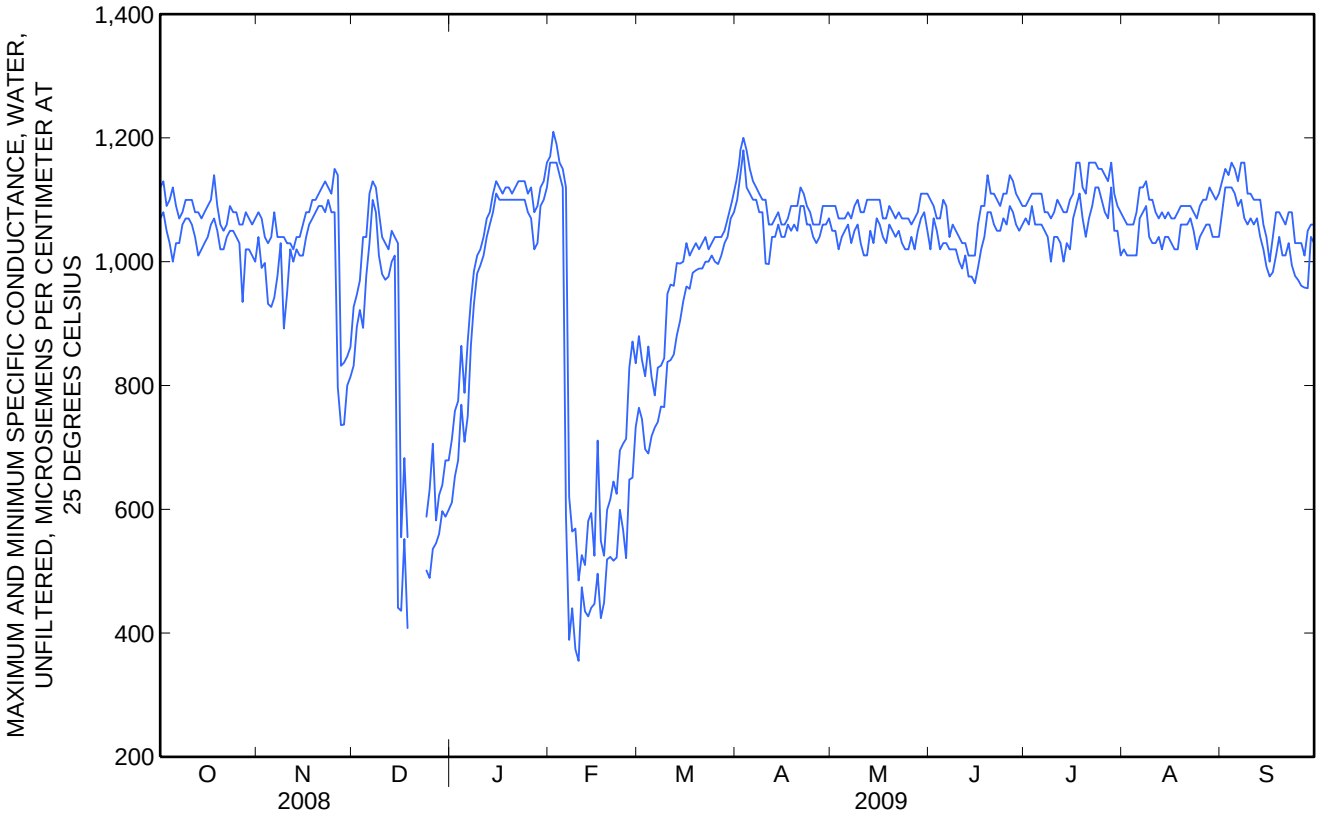
Day	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min
	October		November		December		January		February		March	
1	1,120	1,070	1,080	1,040	927	832	713	611	1,170	1,160	880	764
2	1,130	1,080	1,070	990	947	895	759	653	1,210	1,160	841	746
3	1,090	1,050	1,040	998	970	922	775	679	1,190	1,160	815	697
4	1,100	1,030	1,030	932	1,040	893	864	769	1,160	1,140	863	690
5	1,120	1,000	1,040	927	1,040	977	788	709	1,150	1,120	814	718
6	1,090	1,030	1,080	942	1,110	1,030	871	750	1,120	590	784	732
7	1,070	1,030	1,040	977	1,130	1,100	938	865	620	389	829	741
8	1,080	1,060	1,040	1,030	1,120	1,080	985	932	564	440	832	766
9	1,100	1,070	1,040	892	1,080	1,010	1,010	981	569	374	844	765
10	1,100	1,070	1,030	949	1,040	980	1,020	994	485	355	948	838
11	1,100	1,060	1,030	1,020	1,030	971	1,040	1,010	526	474	963	841
12	1,080	1,040	1,020	1,000	1,020	976	1,070	1,040	510	435	961	850
13	1,080	1,010	1,040	1,020	1,050	1,000	1,080	1,060	581	427	998	881
14	1,070	1,020	1,040	1,010	1,040	1,010	1,110	1,080	594	441	997	904
15	1,080	1,030	1,060	1,010	1,030	441	1,130	1,110	525	447	1,000	936
16	1,090	1,040	1,080	1,040	555	436	1,120	1,100	711	496	1,030	960
17	1,100	1,060	1,080	1,060	683	552	1,110	1,100	549	424	1,010	956
18	1,140	1,070	1,100	1,070	555	408	1,120	1,100	525	449	1,020	982
19	1,090	1,050	1,100	1,080	---	---	1,120	1,100	599	519	1,030	986
20	1,060	1,020	1,110	1,090	---	---	1,110	1,100	616	523	1,020	989
21	1,050	1,020	1,120	1,090	---	---	1,120	1,100	645	517	1,030	989
22	1,060	1,040	1,130	1,080	---	---	1,130	1,100	625	522	1,040	1,000
23	1,090	1,050	1,120	1,100	---	---	1,130	1,100	695	599	1,020	1,000
24	1,080	1,050	1,110	1,080	588	501	1,130	1,100	706	567	1,030	1,010
25	1,080	1,040	1,150	1,080	632	489	1,110	1,080	714	521	1,040	1,000
26	1,060	1,030	1,140	797	706	536	1,120	1,070	829	648	1,040	996
27	1,060	935	832	736	582	545	1,080	1,020	871	651	1,040	1,010
28	1,080	1,020	837	737	623	560	1,090	1,030	836	733	1,050	1,030
29	1,070	1,020	847	800	639	597	1,120	1,090	---	---	1,070	1,040
30	1,060	1,010	862	814	679	588	1,130	1,100	---	---	1,090	1,070
31	1,070	1,000	---	---	679	599	1,160	1,120	---	---	1,110	1,080
Month	1,140	935	1,150	736	---	---	1,160	611	1,210	355	1,110	690

11074000 Santa Ana River below Prado Dam, CA—Continued

SPECIFIC CONDUCTANCE, WATER, UNFILTERED, MICROSIEMENS PER CENTIMETER AT 25 DEGREES CELSIUS
WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009

Day	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min
	April		May		June		July		August		September	
1	1,140	1,100	1,090	1,050	1,100	1,020	1,090	1,070	1,070	1,020	1,130	1,080
2	1,180	1,140	1,090	1,050	1,090	1,070	1,100	1,060	1,060	1,010	1,150	1,120
3	1,200	1,180	1,070	1,020	1,070	1,050	1,110	1,090	1,060	1,010	1,140	1,120
4	1,180	1,120	1,070	1,040	1,070	1,020	1,110	1,060	1,060	1,010	1,160	1,120
5	1,150	1,110	1,070	1,050	1,100	1,030	1,110	1,060	1,080	1,010	1,150	1,110
6	1,130	1,100	1,080	1,060	1,090	1,030	1,110	1,060	1,120	1,070	1,130	1,090
7	1,120	1,100	1,070	1,030	1,040	1,020	1,080	1,050	1,120	1,080	1,160	1,100
8	1,110	1,080	1,090	1,050	1,060	1,020	1,080	1,040	1,130	1,090	1,160	1,070
9	1,100	1,080	1,100	1,060	1,050	1,020	1,070	1,000	1,100	1,040	1,110	1,060
10	1,100	997	1,080	1,030	1,040	1,000	1,080	1,040	1,100	1,030	1,110	1,070
11	1,060	996	1,080	1,010	1,030	989	1,100	1,040	1,080	1,030	1,100	1,060
12	1,060	1,040	1,100	1,010	1,030	1,010	1,090	1,030	1,070	1,040	1,100	1,070
13	1,070	1,040	1,100	1,050	1,010	976	1,080	1,000	1,080	1,020	1,100	1,040
14	1,080	1,060	1,100	1,030	1,010	976	1,080	1,030	1,070	1,040	1,060	1,020
15	1,060	1,040	1,100	1,070	1,010	965	1,100	1,020	1,080	1,040	1,040	992
16	1,060	1,040	1,100	1,060	1,060	990	1,110	1,070	1,070	1,030	1,000	976
17	1,070	1,060	1,070	1,040	1,090	1,020	1,160	1,090	1,070	1,020	1,040	983
18	1,090	1,050	1,070	1,030	1,090	1,040	1,160	1,110	1,080	1,020	1,080	1,010
19	1,090	1,060	1,090	1,060	1,140	1,080	1,120	1,070	1,090	1,060	1,080	1,040
20	1,090	1,050	1,080	1,050	1,110	1,080	1,110	1,040	1,090	1,060	1,070	1,010
21	1,120	1,090	1,070	1,040	1,110	1,060	1,160	1,070	1,090	1,060	1,060	1,010
22	1,110	1,090	1,080	1,050	1,100	1,050	1,160	1,090	1,090	1,070	1,080	1,030
23	1,090	1,060	1,070	1,030	1,090	1,050	1,160	1,120	1,080	1,050	1,080	994
24	1,080	1,060	1,070	1,020	1,110	1,070	1,150	1,120	1,070	1,020	1,030	977
25	1,060	1,040	1,070	1,020	1,110	1,060	1,150	1,100	1,090	1,040	1,030	970
26	1,060	1,030	1,060	1,040	1,140	1,090	1,140	1,080	1,100	1,050	1,030	961
27	1,060	1,040	1,070	1,020	1,130	1,080	1,130	1,070	1,100	1,060	1,010	958
28	1,090	1,060	1,080	1,050	1,110	1,060	1,160	1,120	1,120	1,060	1,050	957
29	1,090	1,060	1,110	1,070	1,100	1,050	1,110	1,050	1,110	1,040	1,060	1,040
30	1,090	1,070	1,110	1,080	1,090	1,060	1,090	1,050	1,100	1,040	1,060	1,030
31	---	---	1,110	1,050	---	---	1,080	1,010	1,110	1,040	---	---
Month	1,200	996	1,110	1,010	1,140	965	1,160	1,000	1,130	1,010	1,160	957

11074000 Santa Ana River below Prado Dam, CA—Continued



11074000 Santa Ana River below Prado Dam, CA—Continued

TEMPERATURE, WATER, DEGREES CELSIUS
WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009

Day	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min
	October		November		December		January		February		March	
1	24.0	23.4	20.8	19.8	16.5	16.3	11.3	10.4	15.2	14.3	15.3	13.9
2	24.1	23.3	20.4	19.8	16.5	16.2	11.6	10.7	15.6	14.3	15.0	14.1
3	23.3	22.1	20.1	18.9	16.6	16.1	11.8	10.9	15.8	14.1	15.5	14.4
4	22.4	21.2	19.5	18.6	16.6	16.1	11.9	11.1	16.0	14.3	14.8	14.3
5	21.5	20.7	19.3	17.1	16.8	15.9	11.4	10.7	16.0	14.5	15.4	14.3
6	21.7	20.8	20.6	16.5	16.3	15.6	11.7	11.0	15.7	14.9	15.4	14.3
7	21.8	21.1	18.0	16.6	16.5	15.6	12.3	11.5	15.0	12.8	15.4	14.2
8	21.8	21.2	18.0	17.2	16.7	16.4	12.5	11.9	13.2	13.0	15.6	14.4
9	21.7	20.8	18.1	17.1	16.7	14.2	12.8	12.2	13.2	11.5	15.7	14.6
10	21.6	20.9	17.5	16.0	14.3	13.5	12.2	11.5	12.5	11.2	15.8	14.6
11	20.9	18.6	17.5	16.0	15.0	13.9	12.9	11.8	12.2	11.8	15.7	14.9
12	18.6	17.2	18.6	17.0	15.2	14.5	13.3	12.3	12.4	11.6	16.1	14.8
13	17.2	15.6	18.8	17.0	15.3	14.7	14.4	13.3	12.6	11.5	16.2	14.8
14	17.4	15.4	18.8	18.0	14.7	13.1	14.9	14.2	12.3	11.9	16.4	15.3
15	18.8	17.4	18.9	17.0	13.7	10.2	14.7	14.0	12.1	11.7	16.3	15.4
16	19.2	18.7	17.9	17.0	11.1	10.2	14.6	13.9	12.5	11.6	16.6	15.5
17	19.1	18.5	18.2	16.9	11.5	10.0	15.4	14.1	12.2	11.5	17.2	15.9
18	19.3	18.9	18.7	16.6	10.0	8.6	15.2	14.5	12.3	11.7	17.5	16.4
19	19.5	18.8	17.9	16.9	9.9	9.6	15.1	14.4	12.7	11.9	17.9	16.7
20	19.6	19.0	18.1	16.4	10.0	9.6	16.1	14.7	13.0	12.0	18.2	17.1
21	19.9	18.7	17.7	16.4	10.0	9.5	16.7	15.6	13.4	12.2	17.9	17.2
22	20.1	19.2	17.9	16.6	10.0	9.6	16.8	16.3	13.1	12.5	17.7	17.0
23	19.3	18.4	17.9	16.8	10.5	9.3	16.7	16.4	13.8	13.0	17.6	16.4
24	18.8	17.9	17.8	16.4	10.4	9.8	16.7	16.3	14.4	13.0	17.8	16.8
25	18.2	17.7	18.9	17.3	11.0	9.9	16.7	15.6	13.6	12.8	17.8	16.9
26	18.4	17.9	18.4	16.6	11.4	9.8	15.9	15.0	14.3	12.8	17.9	16.7
27	19.0	18.3	16.9	16.4	10.5	9.9	15.0	14.1	14.7	13.3	18.1	17.0
28	19.4	18.4	16.9	16.6	10.2	9.8	14.1	13.0	14.8	13.8	18.6	17.4
29	19.8	18.8	16.9	16.4	10.4	9.8	13.2	12.8	---	---	18.8	17.4
30	20.0	18.6	16.5	16.2	11.0	10.3	13.8	13.0	---	---	19.0	17.8
31	20.6	19.7	---	---	11.0	10.2	15.0	13.6	---	---	19.4	17.9
Month	24.1	15.4	20.8	16.0	16.8	8.6	16.8	10.4	16.0	11.2	19.4	13.9

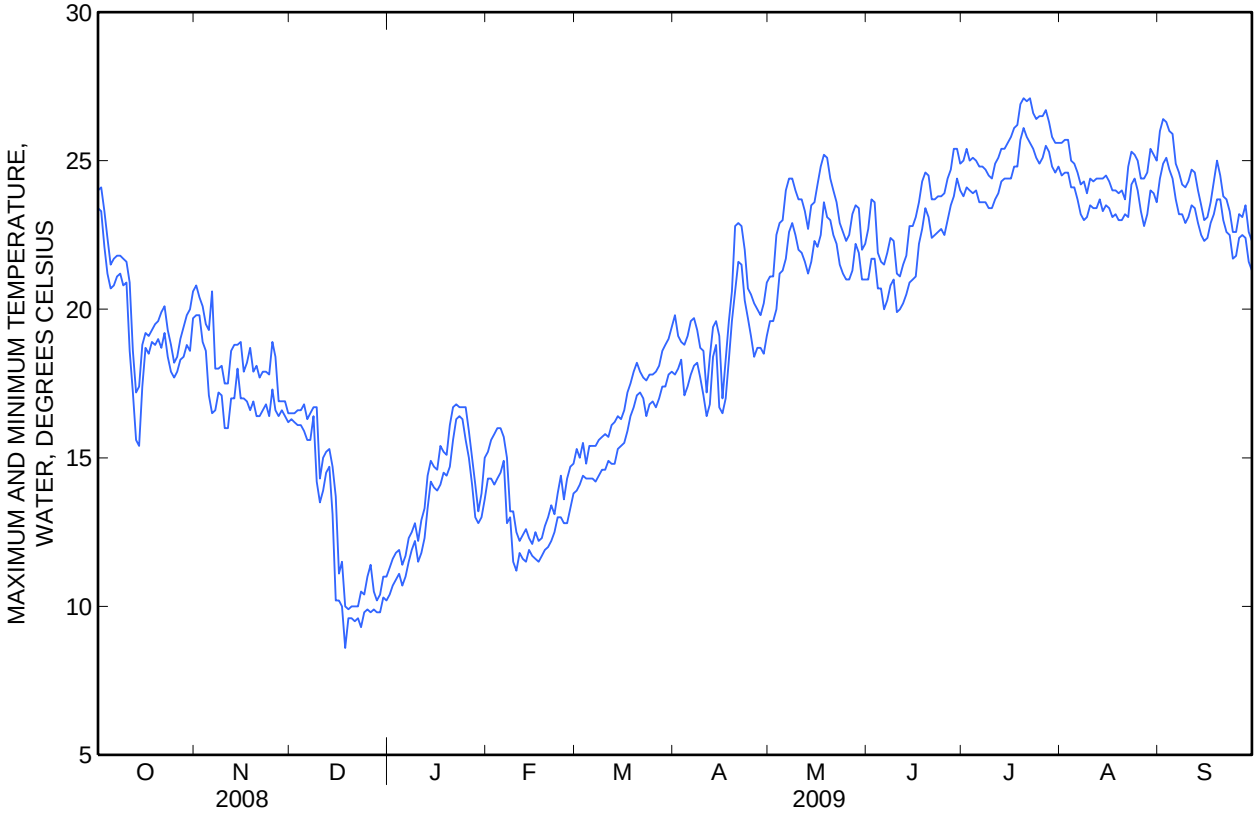
11074000 Santa Ana River below Prado Dam, CA—Continued

TEMPERATURE, WATER, DEGREES CELSIUS
WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009

Day	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min
	April		May		June		July		August		September	
1	19.8	17.8	21.1	19.6	22.7	21.0	25.0	23.8	25.6	24.5	26.0	24.4
2	19.1	18.0	21.1	19.6	23.7	21.7	25.4	24.1	25.7	24.6	26.4	24.9
3	18.9	18.3	22.5	20.0	23.6	21.7	25.0	24.0	25.7	24.6	26.3	25.1
4	18.8	17.1	22.9	21.2	21.9	20.7	25.1	23.9	25.0	24.1	26.0	24.7
5	19.1	17.4	23.0	21.3	21.6	20.7	25.0	24.0	24.9	24.1	25.9	24.4
6	19.6	17.8	24.0	21.7	21.5	20.0	24.8	23.6	24.6	23.7	24.9	23.7
7	19.7	18.1	24.4	22.6	21.9	20.3	24.8	23.6	24.2	23.2	24.6	23.2
8	19.3	18.2	24.4	22.9	22.4	20.8	24.7	23.6	24.3	23.0	24.2	23.2
9	18.7	17.7	24.0	22.5	22.3	21.0	24.5	23.4	23.9	23.1	24.1	22.9
10	18.6	17.1	23.7	22.0	21.2	19.9	24.4	23.4	24.4	23.5	24.3	23.1
11	17.2	16.4	23.7	21.9	21.1	20.0	24.9	23.7	24.3	23.4	24.7	23.5
12	18.4	16.8	23.3	21.6	21.5	20.2	25.1	23.9	24.4	23.4	24.6	23.4
13	19.4	18.4	22.7	21.2	21.8	20.5	25.4	24.3	24.4	23.7	24.0	22.9
14	19.6	18.8	23.5	21.6	22.8	20.9	25.4	24.4	24.4	23.3	23.5	22.5
15	19.1	16.7	23.6	22.3	22.8	21.0	25.6	24.4	24.5	23.5	23.0	22.3
16	17.0	16.5	24.2	22.1	23.1	21.1	25.8	24.4	24.3	23.4	23.1	22.4
17	18.3	17.0	24.8	22.5	23.6	22.2	26.1	24.8	24.0	23.1	23.6	22.9
18	19.6	18.3	25.2	23.6	24.3	22.7	26.2	24.8	24.0	23.2	24.3	23.2
19	20.6	19.6	25.1	23.1	24.6	23.4	26.9	25.7	23.9	23.0	25.0	23.7
20	22.8	20.6	24.4	23.0	24.5	23.1	27.1	26.1	24.0	23.0	24.5	23.7
21	22.9	21.6	24.0	22.5	23.7	22.4	27.0	25.8	23.7	23.2	23.8	23.0
22	22.8	21.5	23.6	22.2	23.7	22.5	27.1	25.6	24.8	23.1	23.7	22.6
23	22.0	20.3	22.9	21.5	23.8	22.6	26.6	25.4	25.3	24.2	23.3	22.5
24	20.7	19.7	22.6	21.2	23.8	22.7	26.4	25.1	25.2	24.4	22.6	21.7
25	20.5	19.1	22.3	21.0	23.9	22.5	26.5	24.9	25.0	24.0	22.6	21.8
26	20.2	18.4	22.5	21.0	24.4	23.0	26.5	25.1	24.4	23.3	23.2	22.4
27	20.0	18.7	23.2	21.3	24.7	23.5	26.7	25.5	24.4	22.8	23.1	22.5
28	19.8	18.7	23.5	22.2	25.4	23.8	26.3	25.3	24.6	23.2	23.5	22.4
29	20.2	18.5	23.4	21.9	25.4	24.4	25.8	24.8	25.4	24.0	22.6	21.6
30	20.9	19.1	22.0	21.0	24.9	24.0	25.6	24.6	25.2	23.9	22.3	21.3
31	---	---	22.2	21.0	---	---	25.6	24.8	25.0	23.6	---	---
Month	22.9	16.4	25.2	19.6	25.4	19.9	27.1	23.4	25.7	22.8	26.4	21.3

	Max	Min
Year	27.1	8.6

11074000 Santa Ana River below Prado Dam, CA—Continued



11074000 Santa Ana River below Prado Dam, CA—Continued

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT
WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009

Date	Time	Instantaneous discharge, ft^3/s (00061)	Temperature, water, deg C (00010)	Suspnd. sedimnt sieve diametr percent <0.0625 mm (70331)	Suspended sediment concentration mg/L (80154)	Suspended sediment discharge, tons/d (80155)
Oct						
22...SS	0945	148	19.5	92	42	17
Nov						
13...SS	1315	168	17.0	94	25	11
Dec						
09...SS	1315	227	15.0	--	46	28
Jan						
12...SS	1545	362	13.0	--	19	19
28...SS	1445	247	13.5	--	12	8.0
Feb						
11...SS	1430	502	12.0	--	47	64
23...SS	1345	422	13.5	--	11	13
Mar						
09...SS	1430	327	15.5	--	2	1.8
24...SS	1115	313	17.0	--	3	2.5
Apr						
09...SS	1415	171	18.0	--	53	24
24...SS	1015	164	20.0	--	44	19
May						
08...SS	1000	142	22.5	--	42	16
21...SS	1430	148	23.0	--	51	20
Jun						
04...SS	1200	148	21.0	--	32	13
17...SS	1300	122	22.5	--	36	12
Jul						
15...SS	1200	93	25.0	--	30	7.5
Aug						
10...SS	1530	93	24.5	--	18	4.5
Sep						
01...SS	1530	78	26.0	--	33	6.9

SS Suspended-sediment data determined from a sample collected and processed according to National Water-Quality Assessment (NAWQA) Program protocol.

11074000 Santa Ana River below Prado Dam, CA—Continued

CROSS SECTION ANALYSES
WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009

Date	Time	Dis-solved oxygen, mg/L (00300)	pH, water, unfltrd field, std units (00400)	Specif-ic conduc-tance, wat unf µS/cm @ 25 degC (00095)	Temper-ature, water, deg C (00010)	Stream width, feet (00004)	Loca-tion in X-sect. looking dwnstrm ft from l bank (00009)
Apr							
21...	1101	--	--	1,110	21.6	32.3	2.30
21...	1102	--	--	1,110	21.6	32.3	5.80
21...	1103	--	--	1,110	21.6	32.3	5.80
21...	1104	--	--	1,110	21.6	32.3	9.80
21...	1105	--	--	1,110	21.6	32.3	9.80
21...	1106	--	--	1,110	21.6	32.3	13.8
21...	1107	--	--	1,110	21.6	32.3	13.8
21...	1108	--	--	1,110	21.5	32.3	17.8
21...	1109	--	--	1,110	21.5	32.3	17.8
21...	1110	--	--	1,110	21.5	32.3	21.8
21...	1111	--	--	1,110	21.5	32.3	21.8
21...	1112	--	--	1,110	21.5	32.3	25.8
21...	1113	--	--	1,110	21.5	32.3	25.8
21...	1114	--	--	1,110	21.6	32.3	29.8
Aug							
10...	1541	10.4	8.2	1,070	24.5	--	--
10...	1548	11.5	8.3	1,070	24.5	30.0	3.00
10...	1550	11.2	8.3	1,070	24.5	30.0	9.00
10...	1554	11.0	8.3	1,070	24.5	30.0	15.0
10...	1555	10.9	8.3	1,070	24.5	30.0	21.0
10...	1558	11.0	8.3	1,070	24.5	30.0	27.0
21...	1031	--	--	1,070	23.6	32.0	3.00
21...	1032	--	--	1,080	23.6	32.0	3.00
21...	1033	--	--	1,080	23.6	32.0	6.00
21...	1034	--	--	1,080	23.6	32.0	6.00
21...	1035	--	--	1,080	23.6	32.0	9.00
21...	1036	--	--	1,080	23.6	32.0	9.00
21...	1037	--	--	1,080	23.6	32.0	12.0
21...	1038	--	--	1,080	23.6	32.0	12.0
21...	1039	--	--	1,080	23.6	32.0	15.0
21...	1040	--	--	1,080	23.6	32.0	15.0
21...	1041	--	--	1,080	23.6	32.0	18.0
21...	1042	--	--	1,080	23.6	32.0	18.0
21...	1043	--	--	1,080	23.6	32.0	21.0
21...	1044	--	--	1,080	23.6	32.0	21.0
21...	1045	--	--	1,070	23.6	32.0	24.0
21...	1046	--	--	1,080	23.6	32.0	24.0
21...	1047	--	--	1,070	23.6	32.0	27.0
21...	1048	--	--	1,070	23.7	32.0	30.0

Note: Instantaneous discharge at the mean time of cross-sectional measurements: Apr. 21, 172 ft^3/s; Aug. 10, 93 ft^3/s; Aug. 21, 108 ft^3/s.