Water-Data Report 2011

11254000 San Joaquin River near Mendota, CA

San Joaquin River Basin

LOCATION.--Lat 36°48′38″, long 120°22′38″ referenced to North American Datum of 1927, in SE ¼ SW ¼ sec.7, T.13 S., R.15 E., Fresno County, CA, Hydrologic Unit 18040001, 2.5 mi below Mendota Dam, and 3.5 mi north of Mendota.

DRAINAGE AREA.--3,940 mi^2.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--October 1939 to September 1954, December 1999 to current year.

REVISED RECORDS.--WDR CA-00-3: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 138.8 ft above NGVD of 1929 (levels by U.S. Bureau of Reclamation). Prior to Nov. 3, 1947, at site 200 ft downstream. Prior to Nov. 4, 1953, at datum 2.00 ft higher.

REMARKS.--Records fair except for estimated daily discharges, which are poor. Flow regulated at Mendota Dam by storage and diversions from Mendota pool of residue of waters released at Friant Dam and imported through Delta-Mendota Canal. Many diversions above station for irrigation.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 11,700 ft^3/s, June 20, 1941, gage height, 13.75 ft, site and datum then in use, maximum gage height, 16.60 ft, Apr. 22, 2006; no flow during December 1999, January 2000, January 2004, January 2006, December 2009, and January 2010.

11254000 San Joaquin River near Mendota, CA—Continued

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011
DAILY MEAN VALUES
[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	338	229	208	1,440	104	617	3,230	2,740	386	848	492	316
2	365	248	195	1,300	168	666	3,410	2,680	429	1,100	493	294
3	392	238	192	967	124	635	3,490	2,420	434	1,200	494	263
4	427	234	192	1,240	151	637	3,550	2,230	412	1,310	503	239
5	448	241	192	1,400	187	625	3,500	2,010	362	1,380	515	263
6	423	251	161	1,380	216	622	3,420	1,700	499	1,320	496	282
7	373	264	124	e1,740	231	555	3,400	1,360	672	1,140	467	268
8	326	274	106	e1,920	247	482	3,510	907	687	989	447	254
9	288	243	97	1,840	256	396	3,520	853	384	1,610	455	250
10	293	222	84	e1,910	228	334	3,570	937	207	2,210	459	257
11	294	218	85	e1,980	244	330	3,450	913	277	2,650	459	246
12	288	219	88	e1,940	269	303	3,260	698	573	2,170	478	241
13	294	225	98	e1,890	283	286	3,210	750	996	923	479	282
14	301	231	92	1,860	284	288	3,220	1,060	983	600	467	336
15	295	232	104	1,640	270	271	3,210	1,000	430	513	484	356
16	271	232	128	1,330	280	246	3,220	844	347	456	461	336
17	240	239	107	1,180	274	229	3,220	821	794	447	466	310
18	219	253	72	921	246	219	3,230	703	1,450	395	550	293
19	240	260	61	516	258	215	3,230	787	1,360	382	554	290
20	265	251	53	153	240	218	3,190	687	1,880	346	519	339
21	264	246	64	127	278	224	3,120	647	1,630	341	560	394
22	265	235	385	142	324	207	3,130	772	1,530	372	599	418
23	269	211	384	137	394	345	3,150	587	1,550	399	606	391
24	271	210	118	137	423	895	3,120	408	1,500	407	604	355
25	259	222	92	140	458	1,590	3,170	303	1,680	407	609	353
26	254	218	75	141	427	2,340	3,080	308	1,950	457	573	333
27	255	213	55	158	440	2,780	3,080	293	2,010	451	498	319
28	248	216	46	155	508	2,960	3,010	263	1,970	469	442	326
29	233	221	97	126	---	2,950	2,620	243	1,630	495	421	345
30	233	217	179	106	---	2,930	2,680	351	890	486	372	340
31	231	---	561	94	---	3,010	---	392	---	477	321	---
Total	9,162	7,013	4,495	30,010	7,812	28,405	97,200	30,667	29,902	26,750	15,343	9,289
Mean	296	234	145	968	279	916	3,240	989	997	863	495	310
Max	448	274	561	1,980	508	3,010	3,570	2,740	2,010	2,650	609	418
Min	219	210	46	94	104	207	2,620	243	207	341	321	239
Ac-ft	18,170	13,910	8,920	59,520	15,500	56,340	192,800	60,830	59,310	53,060	30,430	18,420

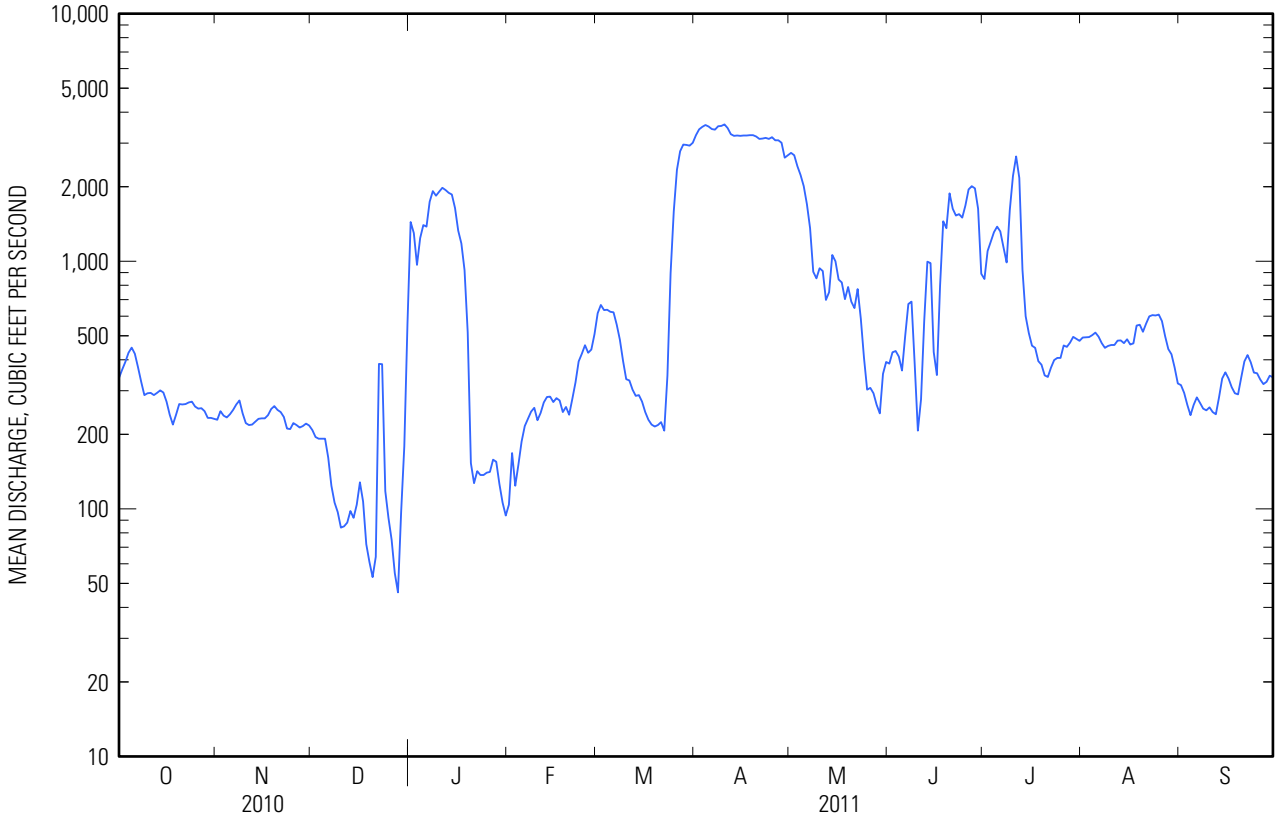
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1940 - 2011, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	211	254	453	799	1,151	1,069	1,403	1,839	1,819	710	363	246
Max	637	1,144	2,548	3,531	5,188	6,187	6,158	8,680	10,340	3,446	562	394
(WY)	(1946)	(1946)	(1951)	(1942)	(1941)	(1943)	(1952)	(1941)	(1941)	(1941)	(1945)	(1945)
Min	29.9	45.6	2.61	14.3	52.7	73.8	162	200	244	327	12.1	9.87
(WY)	(1941)	(1950)	(2004)	(2000)	(1950)	(1948)	(1948)	(1951)	(1948)	(1949)	(1940)	(1940)

11254000 San Joaquin River near Mendota, CA—Continued

SUMMARY STATISTICS

	Calendar Year 2010		Water Year 2011		Water Years 1940 - 2011	
Annual total	169,339.42		296,048			
Annual mean	464		811		878	
Highest annual mean					3,546	1941
Lowest annual mean					188	1950
Highest daily mean	1,120	Jun 10	3,570	Apr 10	11,700	Jun 20, 1941
Lowest daily mean	0.00	Jan 1	46	Dec 28	0.00	Dec 20, 1999
Annual seven-day minimum	3.2	Jan 1	84	Dec 15	0.00	Dec 24, 1999
Maximum peak flow			3,600	Apr 10	11,700	Jun 20, 1941
Maximum peak stage			14.44	Apr 10	16.60	Apr 22, 2006
Annual runoff (ac-ft)	335,900		587,200		636,100	
10 percent exceeds	971		2,660		2,730	
50 percent exceeds	417		392		298	
90 percent exceeds	82		160		82	



WATER-QUALITY RECORDS

PERIOD OF RECORD.--March 2010 to current year.
SEDIMENT DATA: March 2010 to current year.

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT
WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011

Part 1 of 3

[ft^3/s, cubic feet per second; mg/L, milligrams per liter; mm, millimeters; °C, degrees Celsius; A, average]

Sample date-time	Discharge, instantaneous, ft^3/s (00061)	Temperature, water, °C (00010)	Suspended sediment concentration, mg/L (80154)	Suspended sediment discharge, tons per day (80155)	Suspended sediment, sieve diameter, percent smaller than 0.0625 mm (70331)
03-16-2011 1140	242	15.5	27	18	81
03-16-2011 1143	242	15.5	28	18	88
03-16-2011 1145	242	15.5	34	22	78
03-16-2011 1146	242	15.5	35	23	84
03-16-2011 1147	242	15.5	A 29	A 19	A 84
03-16-2011 1148	242	15.5	29	19	80
03-16-2011 1149	242	15.5	28	18	79
03-16-2011 1150	242	15.5	A 29	A 19	A 84
03-16-2011 1151	242	15.5	23	15	91
03-16-2011 1152	242	15.5	26	17	86
03-16-2011 1153	242	15.5	A 29	A 19	A 85
03-16-2011 1154	242	15.5	27	18	84
03-16-2011 1157	242	15.5	31	20	92
03-30-2011 1300	2,930	13.0	46	364	90
03-30-2011 1302	2,930	13.0	46	364	89
03-30-2011 1304	2,930	13.0	48	380	89
03-30-2011 1306	2,930	13.0	49	388	83
03-30-2011 1308	2,930	13.0	65	514	71
03-30-2011 1309	2,930	13.0	A 55	A 435	A 77
03-30-2011 1311	2,930	13.0	A 49	A 388	A 82
03-30-2011 1312	2,930	13.0	65	514	65
03-30-2011 1313	2,930	13.0	A 52	A 411	A 79
03-30-2011 1314	2,930	13.0	55	435	76
03-30-2011 1316	2,930	13.0	51	403	76
03-30-2011 1318	2,930	13.0	45	356	84
04-13-2011 1226	3,200	12.0	45	389	83
04-13-2011 1227	3,200	12.0	40	346	90
04-13-2011 1229	3,200	12.0	56	484	70
04-13-2011 1230	3,200	12.0	43	372	84
04-13-2011 1232	3,200	12.0	46	397	82
04-13-2011 1233	3,200	12.0	A 48	A 415	A 78
04-13-2011 1234	3,200	12.0	48	415	78
04-13-2011 1236	3,200	12.0	A 42	A 363	A 85
04-13-2011 1238	3,200	12.0	A 45	A 389	A 81
04-13-2011 1239	3,200	12.0	47	406	77
04-13-2011 1240	3,200	12.0	37	320	91
04-20-2011 1100	3,200	15.5	41	354	89
04-20-2011 1102	3,200	15.5	47	406	89
04-20-2011 1104	3,200	15.5	49	423	90
04-20-2011 1105	3,200	15.5	A 44	A 380	A 88

11254000 San Joaquin River near Mendota, CA—Continued

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT
WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011

Part 2 of 3

[ft³/s, cubic feet per second; mg/L, milligrams per liter; mm, millimeters; °C, degrees Celsius; A, average]

Sample date-time	Discharge, instantaneous, ft³/s (00061)	Temperature, water, °C (00010)	Suspended sediment concentration, mg/L (80154)	Suspended sediment discharge, tons per day (80155)	Suspended sediment, sieve diameter, percent smaller than 0.0625 mm (70331)
04-20-2011 1106	3,200	15.5	43	372	86
04-20-2011 1108	3,200	15.5	38	328	86
04-20-2011 1109	3,200	15.5	A 45	A 389	A 85
04-20-2011 1110	3,200	15.5	43	372	89
04-20-2011 1112	3,200	15.5	51	441	72
04-20-2011 1114	3,200	15.5	51	441	80
04-20-2011 1115	3,200	15.5	A 46	A 397	A 83
04-20-2011 1116	3,200	15.5	45	389	86
04-20-2011 1118	3,200	15.5	39	337	91
04-27-2011 1120	3,080	14.0	33	274	92
04-27-2011 1122	3,080	14.0	35	291	92
04-27-2011 1124	3,080	14.0	35	291	86
04-27-2011 1125	3,080	14.0	A 35	A 291	A 87
04-27-2011 1126	3,080	14.0	38	316	79
04-27-2011 1128	3,080	14.0	34	283	86
04-27-2011 1129	3,080	14.0	A 36	A 299	A 85
04-27-2011 1130	3,080	14.0	31	258	93
04-27-2011 1132	3,080	14.0	37	308	87
04-27-2011 1134	3,080	14.0	38	316	84
04-27-2011 1135	3,080	14.0	A 37	A 308	A 83
04-27-2011 1136	3,080	14.0	43	358	73
04-27-2011 1138	3,080	14.0	38	316	84
05-11-2011 1035	934	16.0	51	129	92
05-11-2011 1037	934	16.0	53	134	92
05-11-2011 1039	934	16.0	54	136	89
05-11-2011 1040	934	16.0	A 52	A 131	A 91
05-11-2011 1041	934	16.0	54	136	88
05-11-2011 1043	934	16.0	47	119	94
05-11-2011 1044	934	16.0	A 54	A 136	A 87
05-11-2011 1045	934	16.0	49	124	92
05-11-2011 1047	934	16.0	49	124	93
05-11-2011 1049	934	16.0	51	129	88
05-11-2011 1050	934	16.0	A 55	A 139	A 83
05-11-2011 1051	934	16.0	53	134	91
05-11-2011 1053	934	16.0	76	192	63
05-26-2011 1112	317	17.0	34	29	78
05-26-2011 1114	317	17.0	26	22	85
05-26-2011 1115	317	17.0	A 31	A 27	A 77
05-26-2011 1116	317	17.0	32	27	65
05-26-2011 1118	317	17.0	27	23	81

11254000 San Joaquin River near Mendota, CA—Continued

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT
WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011

Part 3 of 3

[ft³/s, cubic feet per second; mg/L, milligrams per liter; mm, millimeters; °C, degrees Celsius; A, average]

Sample date-time	Discharge, instantaneous, ft³/s (00061)	Temperature, water, °C (00010)	Suspended sediment concentration, mg/L (80154)	Suspended sediment discharge, tons per day (80155)	Suspended sediment, sieve diameter, percent smaller than 0.0625 mm (70331)
05-26-2011 1119	317	17.0	A 28	A 24	A 81
05-26-2011 1120	317	17.0	24	21	85
05-26-2011 1122	317	17.0	23	20	92
05-26-2011 1124	317	17.0	29	25	77
05-26-2011 1125	317	17.0	A 26	A 22	A 84
05-26-2011 1126	317	17.0	26	22	80
05-26-2011 1128	317	17.0	27	23	89
06-08-2011 1135	736	18.0	48	95	55
06-08-2011 1137	736	18.0	36	72	71
06-08-2011 1139	736	18.0	28	56	77
06-08-2011 1140	736	18.0	A 36	A 72	A 67
06-08-2011 1141	736	18.0	32	64	78
06-08-2011 1143	736	18.0	38	76	60
06-08-2011 1144	736	18.0	A 39	A 78	A 64
06-08-2011 1145	736	18.0	79	157	33
06-08-2011 1147	736	18.0	27	54	79
06-08-2011 1149	736	18.0	26	52	81
06-08-2011 1150	736	18.0	A 42	A 83	A 61
06-08-2011 1151	736	18.0	44	87	71
06-08-2011 1153	736	18.0	35	70	81

11254000 San Joaquin River near Mendota, CA—Continued

PARTICLE-SIZE DISTRIBUTION OF BED MATERIAL
WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011

Part 1 of 2

[ft³/s, cubic feet per second; mm, millimeters; °C, degrees Celsius; --, no data; <, less than]

Sample date-time	Number of sampling points, count (00063)	Discharge, instanta-neous, ft³/s (00061)	Tempera-ture, water, °C (00010)	Bed sediment, dry sieved, sieve diameter, percent smaller than 0.0625 mm (80164)	Bed sediment, dry sieved, sieve diameter, percent smaller than 0.125 mm (80165)	Bed sediment, dry sieved, sieve diameter, percent smaller than 0.25 mm (80166)	Bed sediment, dry sieved, sieve diameter, percent smaller than 0.5 mm (80167)	Bed sediment, dry sieved, sieve diameter, percent smaller than 1 mm (80168)	Bed sediment, dry sieved, sieve diameter, percent smaller than 2 mm (80169)
03-16-2011 1150	1	241	15.5	< 1	1	9	40	65	80
03-16-2011 1155	1	241	15.5	6	12	25	55	65	72
03-16-2011 1200	1	241	15.5	3	9	18	38	56	71
03-16-2011 1205	1	241	15.5	5	9	21	41	57	74
03-16-2011 1210	1	241	15.5	< 1	4	54	79	87	92
03-30-2011 1340	1	2,930	13.0	< 1	< 1	1	34	82	99
03-30-2011 1343	1	2,930	13.0	< 1	< 1	1	22	64	94
03-30-2011 1346	1	2,930	13.0	< 1	< 1	1	45	89	99
03-30-2011 1349	1	2,930	13.0	< 1	< 1	5	54	90	99
03-30-2011 1352	1	2,930	13.0	< 1	1	23	88	98	100
04-13-2011 1734	1	3,180	12.0	< 1	< 1	< 1	13	74	98
04-13-2011 1737	1	3,180	12.0	< 1	< 1	< 1	11	64	96
04-13-2011 1739	1	3,180	12.0	< 1	< 1	< 1	24	81	99
04-13-2011 1741	1	3,180	12.0	< 1	< 1	1	38	86	99
04-13-2011 1744	1	3,180	12.0	< 1	< 1	13	70	94	99
04-20-2011 1135	1	3,200	15.5	< 1	< 1	1	8	35	78
04-20-2011 1137	1	3,200	15.5	< 1	< 1	1	17	58	92
04-20-2011 1139	1	3,200	15.5	< 1	< 1	< 1	4	56	95
04-20-2011 1141	1	3,200	15.5	< 1	< 1	7	76	97	100
04-20-2011 1143	1	3,200	15.5	22	56	84	94	98	100
04-27-2011 1430	1	3,090	14.0	< 1	< 1	1	6	33	79
04-27-2011 1433	1	3,090	14.0	< 1	< 1	< 1	8	50	90
04-27-2011 1436	1	3,090	14.0	< 1	< 1	1	26	69	94
04-27-2011 1439	1	3,090	14.0	< 1	< 1	1	29	76	98
04-27-2011 1442	1	3,090	14.0	< 1	< 1	10	71	96	99
05-11-2011 1124	1	934	16.0	< 1	< 1	15	76	94	99
05-11-2011 1127	1	934	16.0	< 1	< 1	4	46	82	96
05-11-2011 1130	1	934	16.0	< 1	< 1	1	46	95	100
05-11-2011 1133	1	934	16.0	< 1	< 1	1	9	50	93
05-11-2011 1136	1	934	16.0	< 1	< 1	1	6	43	90
05-26-2011 1230	1	315	17.0	< 1	< 1	< 1	6	41	89
05-26-2011 1232	1	315	17.0	< 1	< 1	< 1	17	69	98
05-26-2011 1234	1	315	17.0	< 1	< 1	1	32	80	99
05-26-2011 1236	1	315	17.0	< 1	< 1	3	52	92	100
05-26-2011 1238	1	315	17.0	< 1	< 1	3	48	85	97
06-08-2011 1030	1	735	18.0	< 1	1	11	51	83	96
06-08-2011 1033	1	735	18.0	< 1	1	15	51	81	96
06-08-2011 1036	1	735	18.0	< 1	< 1	1	36	93	100
06-08-2011 1039	1	735	18.0	< 1	1	2	13	74	95
06-08-2011 1042	1	735	18.0	1	2	5	12	49	89

11254000 San Joaquin River near Mendota, CA—Continued

PARTICLE-SIZE DISTRIBUTION OF BED MATERIAL
WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011

Part 2 of 2

[ft³/s, cubic feet per second; mm, millimeters; °C, degrees Celsius; --, no data; <, less than]

Sample date-time	Bed sediment, dry sieved, sieve diameter, percent smaller than 4 mm (80170)	Bed sediment, dry sieved, sieve diameter, percent smaller than 8 mm (80171)	Bed sediment, dry sieved, sieve diameter, percent smaller than 16 mm (80172)
03-16-2011 1150	88	99	100
03-16-2011 1155	92	100	--
03-16-2011 1200	91	100	--
03-16-2011 1205	93	100	--
03-16-2011 1210	100	--	--
03-30-2011 1340	100	--	--
03-30-2011 1343	100	--	--
03-30-2011 1346	100	--	--
03-30-2011 1349	100	--	--
03-30-2011 1352	--	--	--
04-13-2011 1734	100	--	--
04-13-2011 1737	99	100	--
04-13-2011 1739	100	--	--
04-13-2011 1741	100	--	--
04-13-2011 1744	100	--	--
04-20-2011 1135	97	100	--
04-20-2011 1137	99	100	--
04-20-2011 1139	100	--	--
04-20-2011 1141	--	--	--
04-20-2011 1143	--	--	--
04-27-2011 1430	97	100	--
04-27-2011 1433	99	100	--
04-27-2011 1436	99	100	--
04-27-2011 1439	100	--	--
04-27-2011 1442	100	--	--
05-11-2011 1124	100	--	--
05-11-2011 1127	100	--	--
05-11-2011 1130	--	--	--
05-11-2011 1133	99	100	--
05-11-2011 1136	97	99	100
05-26-2011 1230	99	100	--
05-26-2011 1232	100	--	--
05-26-2011 1234	100	--	--
05-26-2011 1236	--	--	--
05-26-2011 1238	100	--	--
06-08-2011 1030	100	--	--
06-08-2011 1033	100	--	--
06-08-2011 1036	--	--	--
06-08-2011 1039	97	98	100
06-08-2011 1042	97	100	--

11254000 San Joaquin River near Mendota, CA—Continued

PARTICLE-SIZE DISTRIBUTION OF BEDLOAD
WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011

Part 1 of 3

[ft, feet; ft³/s, cubic feet per second; mm, millimeters; °C, degrees Celsius; --, no data; <, less than; A, average]

Sample date-time	Sampling method (82398)	Sampler type (84164)	Bag mesh size, bedload sampler, mm (30333)	Tether line used for collecting sample (yes=1) (04117)	Starting time, 24 hour clock, hour-minute (hhmm) (82073)	Ending time, 24 hour clock, hour-minute (hhmm) (82074)	Rest time on bed for bed load sample, seconds (04120)	Horizontal width of vertical, feet (04121)
03-16-2011 1256	Bedload (SEWI)	BL-3X3 BL-84, Cable	.250	No	1240	1312	120	5.0
03-16-2011 1345	Bedload (SEWI)	BL-3X3 BL-84, Cable	.250	No	1320	1410	120	5.0
03-30-2011 1133	Bedload (SEWI)	BL-3X3 BL-84, Cable	.250	No	1110	1156	120	7.0
03-30-2011 1226	Bedload (SEWI)	BL-3X3 BL-84, Cable	.250	No	1202	1250	120	7.0
04-13-2011 1555	Bedload (SEWI)	BL-3X3 BL-84, Cable	.250	No	1524	1627	120	7.8
04-13-2011 1657	Bedload (SEWI)	BL-3X3 BL-84, Cable	.250	No	1630	1726	120	7.8
04-20-2011 1220	Bedload (SEWI)	BL-3X3 BL-84, Cable	.250	No	1150	1250	120	10.0
04-20-2011 1350	Bedload (SEWI)	BL-3X3 BL-84, Cable	.250	No	1305	1435	120	10.0
04-27-2011 1230	Bedload (SEWI)	BL-3X3 BL-84, Cable	.250	No	1200	1300	120	7.0
04-27-2011 1345	Bedload (SEWI)	BL-3X3 BL-84, Cable	.250	No	1315	1415	120	7.0
05-11-2011 1215	Bedload (SEWI)	BL-3X3 BL-84, Cable	.250	No	1145	1240	120	6.0
05-11-2011 1320	Bedload (SEWI)	BL-3X3 BL-84, Cable	.250	No	1250	1350	120	6.0
05-26-2011 1223	Bedload (SEWI)	BL-3X3 BL-84, Cable	.250	No	1209	1255	120	5.9
05-26-2011 1322	Bedload (SEWI)	BL-3X3 BL-84, Cable	.250	No	1302	1347	120	5.9
06-08-2011 1235	Bedload (SEWI)	BL-3X3 BL-84, Cable	.250	No	1210	1300	120	6.0
06-08-2011 1335	Bedload (SEWI)	BL-3X3 BL-84, Cable	.250	No	1310	1400	120	6.0

11254000 San Joaquin River near Mendota, CA—Continued

PARTICLE-SIZE DISTRIBUTION OF BEDLOAD
WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011

Part 2 of 3

[ft, feet; ft³/s, cubic feet per second; mm, millimeters; °C, degrees Celsius; --, no data; <, less than; A, average]

Sample date-time	Composited samples in cross-sectional bedload measurement, number (04118)	Verticals in composite sample, number (04119)	Number of sampling points, count (00063)	Location in cross section, distance from left bank looking downstream, ft (00009)	Stream width, ft (00004)	Discharge, instantaneous, ft³/s (00061)	Temperature, water, °C (00010)	Bedload sediment discharge, daily average, per unit width of river, composite samples, tons per day per foot of width (04122)	Bedload sediment discharge, tons per day (80225)
03-16-2011 1256	2	16	16	11.0	96.0	239	15.5	.04	A 4.2
03-16-2011 1345	2	16	16	11.0	96.0	239	15.5	.07	A 4.2
03-30-2011 1133	2	21	21	4.00	150	2,930	13.0	.40	A 71
03-30-2011 1226	2	21	21	4.00	150	2,930	13.0	.56	A 71
04-13-2011 1555	2	20	20	3.90	156	3,090	12.0	.56	A 104
04-13-2011 1657	2	20	20	3.90	156	3,190	12.0	.77	A 104
04-20-2011 1220	2	15	15	5.00	150	3,200	15.5	.96	A 117
04-20-2011 1350	2	15	15	5.00	150	3,200	15.5	.60	A 117
04-27-2011 1230	2	21	21	4.00	150	3,080	14.0	.42	A 82
04-27-2011 1345	2	21	21	4.00	150	3,080	14.0	.70	A 82
05-11-2011 1215	2	20	20	10.5	123	931	16.0	.21	A 25
05-11-2011 1320	2	20	20	10.5	123	931	16.0	.21	A 25
05-26-2011 1223	2	20	20	3.00	118	312	17.0	.30	A 37
05-26-2011 1322	2	20	20	3.00	118	312	17.0	.33	A 37
06-08-2011 1235	2	20	20	3.00	120	735	18.0	.18	A 24
06-08-2011 1335	2	20	20	3.00	120	735	18.0	.22	A 24

11254000 San Joaquin River near Mendota, CA—Continued

PARTICLE-SIZE DISTRIBUTION OF BEDLOAD
WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011

Part 3 of 3

[ft, feet; ft³/s, cubic feet per second; mm, millimeters; °C, degrees Celsius; --, no data; <, less than; A, average]

Sample date-time	Bedload sediment, sieve diameter, percent smaller than 0.0625 mm (80226)	Bedload sediment, sieve diameter, percent smaller than 0.125 mm (80227)	Bedload sediment, sieve diameter, percent smaller than 0.25 mm (80228)	Bedload sediment, sieve diameter, percent smaller than 0.5 mm (80229)	Bedload sediment, sieve diameter, percent smaller than 1 mm (80230)	Bedload sediment, sieve diameter, percent smaller than 2 mm (80231)	Bedload sediment, sieve diameter, percent smaller than 4 mm (80232)	Bedload sediment, sieve diameter, percent smaller than 8 mm (80233)	Bedload sediment, sieve diameter, percent smaller than 16 mm (80234)
03-16-2011 1256	< 1	< 1	3	19	30	41	60	96	100
03-16-2011 1345	< 1	< 1	4	22	37	49	67	95	100
03-30-2011 1133	< 1	< 1	4	51	87	99	100	--	--
03-30-2011 1226	< 1	< 1	4	49	86	99	100	--	--
04-13-2011 1555	< 1	< 1	1	30	79	98	100	--	--
04-13-2011 1657	< 1	< 1	1	26	70	86	87	100	--
04-20-2011 1220	< 1	< 1	1	24	71	96	100	--	--
04-20-2011 1350	< 1	< 1	< 1	24	73	96	100	--	--
04-27-2011 1230	< 1	< 1	1	27	67	93	99	100	--
04-27-2011 1345	< 1	< 1	1	30	76	96	100	--	--
05-11-2011 1215	< 1	< 1	1	55	89	98	99	100	--
05-11-2011 1320	< 1	< 1	1	44	87	99	100	--	--
05-26-2011 1223	< 1	< 1	1	52	91	99	100	--	--
05-26-2011 1322	< 1	< 1	1	40	81	97	100	--	--
06-08-2011 1235	< 1	< 1	2	36	75	94	98	99	100
06-08-2011 1335	< 1	< 1	3	46	80	95	98	100	--