

Water-Data Report 2009

11272500 Merced River near Stevinson, CA

San Joaquin River Basin

LOCATION.--Lat 37°22'15", long 120°55'46" referenced to North American Datum of 1927, in SW ¼ NE ¼ sec.36, T.6 S., R.9 E., Merced County, CA, Hydrologic Unit 18040002, on right bank, 30 ft below Lower Stevinson drain, 4.4 mi upstream from mouth, and 5.3 mi northwest of Stevinson.

DRAINAGE AREA.--1,273 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.--October 1940 to September 1995, October 2001 to current year.

CHEMICAL ANALYSES: Water years 1993-94.

SPECIFIC CONDUCTANCE: Water years 1989-94.

WATER TEMPERATURE: Water years 1989-94.

SEDIMENT DATA: Water years 1993-94.

REVISED RECORDS.--WSP 1930: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is NGVD of 1929. October 1940 to Aug. 15, 1955, at datum 55.74 ft higher; Aug. 16, 1955, to Sept. 30, 1959, at datum 54.74 ft higher.

COOPERATION.--Gage-height record and discharge measurements were furnished by California Department of Water Resources with mean daily discharges computed by U.S. Geological Survey personnel.

REMARKS.--Practically entire flow is diverted upstream from station for irrigation of 120,000 acres during low runoff years. Some return flow enters upstream from station. Flow regulated by three reservoirs, combined capacity, 1,035,000 acre-ft, the largest of which is Lake McClure (station 11269500).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 13,600 ft³/s, Dec. 5, 1950, elevation, 73.79 ft, present datum; no flow July 19 to Aug. 21, 1961, result of temporary dam.

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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	131	285	265	221	240	e224	200	145	168	105	e36	e59
2	132	305	263	219	234	e233	202	180	184	90	58	e67
3	185	304	e247	218	227	e271	179	284	192	88	52	62
4	222	304	e237	217	223	e285	176	281	185	82	e50	56
5	242	307	236	215	222	577	180	240	188	87	e47	e60
6	257	298	234	210	e225	e450	e207	218	205	88	e48	e78
7	252	281	234	191	e227	353	e188	386	229	73	e55	73
8	293	266	234	200	224	322	e214	487	207	84	e47	82
9	268	277	230	194	e217	306	e222	678	195	69	e58	e93
10	319	e265	226	198	215	285	e232	766	163	68	e66	e87
11	344	282	e235	198	210	279	e244	803	152	63	e46	e97
12	348	283	e243	212	207	278	e254	743	143	85	e35	e111
13	339	287	e245	212	213	258	e244	386	141	74	e38	134
14	321	321	e243	217	225	246	e210	251	168	59	e49	127
15	299	315	e244	218	250	249	e195	203	189	e41	e56	127
16	259	304	e251	196	254	255	e199	194	184	e35	e46	125
17	260	302	237	195	259	248	e200	191	156	28	e43	128
18	282	294	229	187	470	238	e201	215	144	e34	e51	115
19	349	281	225	178	434	227	e208	193	130	60	e61	101
20	359	284	221	176	320	227	e195	168	131	45	e80	111
21	392	277	224	181	281	232	e181	155	135	47	e70	99
22	325	287	230	204	272	229	e168	158	144	64	e76	72
23	325	279	238	228	267	221	e177	177	128	57	e100	67
24	328	275	235	236	264	209	172	169	123	e38	e75	78
25	294	275	232	323	254	208	166	140	120	e33	e66	96
26	273	270	234	356	244	210	175	143	120	e35	e58	100
27	286	269	231	283	e233	216	195	139	104	e30	e72	112
28	285	264	225	253	e199	206	173	146	104	e30	e71	114
29	275	262	223	253	---	209	155	139	104	e31	e48	108
30	280	261	219	244	---	191	146	153	88	e33	e51	99
31	279	---	219	239	---	186	---	161	---	e33	e75	---
Total	8,803	8,564	7,289	6,872	7,110	8,128	5,858	8,692	4,624	1,789	1,784	2,838
Mean	284	285	235	222	254	262	195	280	154	57.7	57.5	94.6
Max	392	321	265	356	470	577	254	803	229	105	100	134
Min	131	261	219	176	199	186	146	139	88	28	35	56
Ac-ft	17,460	16,990	14,460	13,630	14,100	16,120	11,620	17,240	9,170	3,550	3,540	5,630

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	366	305	497	706	780	987	1,061	1,298	1,034	379	228	302
Max	2,739	1,314	4,718	4,568	4,695	5,478	4,949	5,792	4,545	3,593	1,192	1,716
(WY)	(1984)	(1970)	(1951)	(1956)	(1983)	(1983)	(1983)	(1952)	(1983)	(1983)	(1983)	(1983)
Min	11.4	69.9	105	109	69.2	94.4	59.7	65.1	19.2	6.18	8.91	11.3
(WY)	(1978)	(1962)	(1962)	(1962)	(1991)	(1977)	(1961)	(1977)	(1977)	(1991)	(1977)	(1977)

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SUMMARY STATISTICS

	Calendar Year 2008		Water Year 2009		Water Years 1941 - 2009	
Annual total	112,567		72,351			
Annual mean	308		198		661	
Highest annual mean					3,155	1983
Lowest annual mean					78.8	1961
Highest daily mean	1,470	Jan 25	803	May 11	12,000	Dec 10, 1950
Lowest daily mean	41	Aug 29	28	Jul 17	0.00	Jul 19, 1961
Annual seven-day minimum	60	Jun 21	32	Jul 25	0.00	Jul 19, 1961
Maximum peak flow			819	May 11	13,600	Dec 5, 1950
Maximum peak stage			59.56	May 11	73.79	Dec 5, 1950
Annual runoff (ac-ft)	223,300		143,500		478,800	
10 percent exceeds	627		300		1,750	
50 percent exceeds	244		208		239	
90 percent exceeds	82		59		99	

