



Water-Data Report 2009

11342000 Sacramento River at Delta, CA

Sacramento River Basin

LOCATION.--Lat 40°56'23", long 122°24'58" referenced to North American Datum of 1927, in SW ¼ NW ¼ sec.35, T.36 N., R.5 W., Shasta County, CA, Hydrologic Unit 18020005, U.S. Bureau of Reclamation property, on left bank, 0.2 mi downstream from Dog Creek, 0.6 mi southeast of Delta, 2.8 mi south of Lamoine, 25 mi north of city of Redding, and 29 mi downstream from Lake Siskiyou.

DRAINAGE AREA.--425 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.--October 1944 to current year. Monthly discharge only for some periods, published in WSP 1315-A.

CHEMICAL DATA: Water years 1951-81.

WATER TEMPERATURE: Water years 1951, 1954-57, 1963-79.

REVISED RECORDS.--WSP 1395: 1951 (instantaneous maximum discharge). WDR-CA-94-4: 1993 (peaks above the base).

GAGE.--Water-stage recorder. Datum of gage is 1,075.00 ft above NGVD of 1929 (levels by U.S. Bureau of Reclamation).

REMARKS.--Records good. Some regulation by Lake Siskiyou, capacity, 26,100 acre-ft, since December 1968. Some minor diversions for irrigation upstream from station. See schematic diagram of Pit and McCloud River Basins available from the California Water Science Center.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 69,800 ft³/s, Jan. 16, 1974, gage height, 27.20 ft in gage well, 28.7 ft from floodmarks, from rating curve extended above 19,000 ft³/s, on basis of slope-area measurements at gage height 19.50 ft, and of peak flow; minimum daily, 117 ft³/s, Aug. 5, 6, 12-15, 1977.

PEAK DISCHARGES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 8,000 ft³/s and (or) maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Feb 23	1645	21,800	14.08
Mar 2	0700	*28,600	*15.91

11342000 Sacramento River at Delta, 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	172	2,120	250	365	328	6,750	1,670	1,100	705	344	230	198
2	176	1,770	248	413	308	22,100	1,720	2,090	690	337	229	199
3	251	1,160	245	399	305	11,600	1,630	5,560	695	327	229	197
4	475	1,140	244	361	306	6,860	1,480	4,290	769	321	225	197
5	261	605	242	340	408	4,850	1,400	6,160	762	316	225	196
6	228	476	240	325	1,720	3,860	1,360	4,780	828	313	233	200
7	216	429	240	326	1,010	3,260	1,420	3,850	688	312	264	200
8	210	412	238	341	717	2,910	1,440	3,100	644	311	246	198
9	206	476	237	343	604	2,580	1,820	2,630	612	304	234	196
10	206	399	235	334	519	2,280	1,970	2,330	650	300	227	194
11	209	371	235	336	535	1,840	1,690	2,160	684	295	223	193
12	206	359	236	390	500	1,570	1,530	1,970	677	291	220	191
13	206	351	236	458	667	1,570	1,540	1,760	634	287	218	192
14	207	348	245	457	651	1,600	1,510	1,650	639	283	215	214
15	200	339	256	448	1,100	2,040	1,380	1,650	582	278	216	215
16	200	345	242	434	1,240	5,990	1,280	1,610	548	272	215	204
17	200	321	232	422	1,130	5,260	1,210	1,630	530	267	212	199
18	200	307	239	405	977	3,820	1,290	1,660	509	263	209	196
19	200	300	255	386	904	3,220	1,480	1,600	490	259	208	193
20	200	299	239	372	829	e2,950	1,820	1,360	472	255	206	191
21	199	292	254	361	845	e2,820	2,060	1,230	468	253	205	190
22	196	286	275	402	3,010	e2,700	2,360	1,150	449	251	202	188
23	198	282	259	445	12,500	e2,460	2,380	1,100	442	247	202	188
24	197	278	275	431	7,250	e2,240	2,010	1,060	422	245	203	188
25	200	272	325	438	3,950	e2,060	1,670	988	409	244	202	187
26	200	263	282	414	3,090	1,980	1,510	925	396	242	202	186
27	200	260	269	392	2,430	1,950	1,340	874	386	239	200	184
28	199	256	306	369	2,060	2,110	1,230	843	375	235	201	184
29	199	253	474	345	---	2,110	1,170	805	359	235	206	186
30	200	251	501	337	---	1,820	1,080	762	350	236	201	190
31	469	---	396	366	---	1,690	---	733	---	233	199	---
Total	6,886	15,020	8,450	11,955	49,893	120,850	47,450	63,410	16,864	8,595	6,707	5,834
Mean	222	501	273	386	1,782	3,898	1,582	2,045	562	277	216	194
Max	475	2,120	501	458	12,500	22,100	2,380	6,160	828	344	264	215
Min	172	251	232	325	305	1,570	1,080	733	350	233	199	184
Ac-ft	13,660	29,790	16,760	23,710	98,960	239,700	94,120	125,800	33,450	17,050	13,300	11,570

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1945 - 2009, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	341	734	1,371	1,883	2,318	2,277	2,041	1,756	828	344	239	233
Max	1,837	6,075	5,770	7,162	9,557	7,957	5,606	4,618	3,741	1,198	462	514
(WY)	(1951)	(1974)	(1997)	(1995)	(1958)	(1983)	(2006)	(2006)	(1998)	(1998)	(1983)	(1957)
Min	150	187	197	214	226	243	264	410	229	145	122	154
(WY)	(1945)	(1992)	(1977)	(1991)	(1977)	(1977)	(1977)	(1977)	(1977)	(1977)	(1977)	(1991)

11342000 Sacramento River at Delta, CA—Continued

SUMMARY STATISTICS

	Calendar Year 2008		Water Year 2009		Water Years 1945 - 2009	
Annual total	262,869		361,914			
Annual mean	718		992		1,191	
Highest annual mean					2,715	1983
Lowest annual mean					228	1977
Highest daily mean	4,950	Jan 4	22,100	Mar 2	53,900	Jan 16, 1974
Lowest daily mean	172	Oct 1	172	Oct 1	117	Aug 5, 1977
Annual seven-day minimum	186	Sep 26	186	Sep 23	117	Aug 11, 1977
Maximum peak flow			28,600	Mar 2	69,800	Jan 16, 1974
Maximum peak stage			15.91	Mar 2	27.20	Jan 16, 1974
Annual runoff (ac-ft)	521,400		717,900		862,900	
10 percent exceeds	1,590		2,140		2,700	
50 percent exceeds	378		359		530	
90 percent exceeds	197		200		202	

