

11374000 Cow Creek near Millville, CA

Sacramento River Basin

LOCATION.--Lat 40°30'18", long 122°13'55" referenced to North American Datum of 1927, in NE ¼ NW ¼ sec.32, T.31 N., R.3 W., Shasta County, CA, Hydrologic Unit 18020101, on right bank, 2.9 mi upstream from mouth, 4.2 mi southwest of Millville, and 4.3 mi downstream from Little Cow Creek.

DRAINAGE AREA.--425 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.--October 1949 to current year.

CHEMICAL DATA: Water years 1959-66.

WATER TEMPERATURE: Water years 1966-71, 1973-76, 1978-79.

SEDIMENT DATA: Water year 1978.

REVISED RECORDS.--WSP 1931: Drainage area.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 385.7 ft above NGVD of 1929. Prior to June 11, 1987, at datum 3.00 ft higher.

REMARKS.--Records good. Numerous small diversions upstream from station for irrigation. See schematic diagrams of upper Sacramento River Basin and Battle Creek and Cow Creek Basins available from the California Water Science Center.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 48,700 ft³/s, Nov. 16, 1981, gage height, 24.22 ft, present datum; maximum gage height, 24.55 ft, Dec. 27, 1951, present datum; minimum daily, 0.02 ft³/s, July 29, 1977.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of 1937 or 1940 reached a stage of 26.8 ft from floodmarks, present datum; probable backwater effect from high flows on the Sacramento River.

PEAK DISCHARGES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 13,900 ft³/s and (or) maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Dec 2	1030	*27,400	*18.72
Dec 24	0000	19,300	16.00

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DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2012 TO SEPTEMBER 2013
DAILY MEAN VALUES

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	19	165	1,120	582	330	184	1,030	153	82	45	15	13
2	15	144	10,100	506	313	185	678	147	78	42	15	12
3	13	111	2,380	455	301	189	531	144	72	38	16	12
4	12	98	1,980	415	292	197	506	136	61	37	13	13
5	16	92	6,120	390	285	201	1,280	136	57	36	12	14
6	20	89	2,000	373	280	243	1,870	141	58	34	12	12
7	21	89	1,250	362	290	345	1,650	155	55	32	9.9	14
8	24	92	922	367	366	268	1,250	153	49	30	12	15
9	23	103	717	393	300	231	904	145	44	29	15	10
10	25	102	600	592	272	210	712	140	48	29	17	9.5
11	28	102	517	426	255	201	613	127	49	27	16	9.9
12	27	97	807	362	245	199	529	119	50	25	11	12
13	30	104	712	323	234	198	467	115	43	23	14	13
14	34	107	543	294	228	203	421	104	37	21	11	15
15	33	108	483	279	224	211	388	96	40	23	13	13
16	31	107	2,110	270	222	216	358	102	45	24	11	12
17	29	1,020	3,850	272	219	218	325	121	43	20	13	12
18	27	1,580	1,600	270	217	220	299	118	38	21	14	12
19	30	335	1,010	262	231	214	280	103	38	20	13	15
20	35	346	789	254	259	530	264	99	41	19	12	16
21	40	3,140	5,950	248	232	756	250	89	40	19	12	22
22	65	818	10,200	245	220	472	231	87	37	16	15	60
23	143	381	9,570	257	214	377	216	84	38	18	17	48
24	109	266	6,360	689	205	334	208	88	56	19	17	38
25	137	218	3,000	575	198	312	199	84	112	20	14	35
26	104	193	4,230	548	191	306	189	82	192	15	13	38
27	89	175	2,040	564	188	299	177	87	115	19	14	38
28	86	227	1,360	462	185	309	168	140	85	15	13	36
29	85	477	1,090	405	---	307	166	144	62	11	12	38
30	81	3,640	841	371	---	297	161	114	54	14	12	40
31	90	---	684	351	---	1,210	---	93	---	16	10	---
Total	1,521	14,526	84,935	12,162	6,996	9,642	16,320	3,646	1,819	757	413.9	647.4
Mean	49.1	484	2,740	392	250	311	544	118	60.6	24.4	13.4	21.6
Max	143	3,640	10,200	689	366	1,210	1,870	155	192	45	17	60
Min	12	89	483	245	185	184	161	82	37	11	9.9	9.5
Ac-ft	3,020	28,810	168,500	24,120	13,880	19,120	32,370	7,230	3,610	1,500	821	1,280

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1950 - 2013, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	117	429	1,181	1,638	1,608	1,345	858	560	227	63.2	37.0	45.1
Max	1,057	2,539	3,929	5,593	5,636	5,275	3,489	2,375	1,386	324	148	130
(WY)	(1963)	(1982)	(1984)	(1970)	(1998)	(1983)	(2006)	(1998)	(1998)	(1998)	(1998)	(1983)
Min	19.4	58.3	76.1	80.7	103	118	63.0	54.1	13.5	0.63	0.74	3.19
(WY)	(1992)	(1992)	(1991)	(1991)	(1977)	(1977)	(1977)	(1992)	(1992)	(1977)	(1977)	(1992)

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SUMMARY STATISTICS

	Calendar Year 2012		Water Year 2013		Water Years 1950 - 2013	
Annual total	208,184.4		153,385.3			
Annual mean	569		420		672	
Highest annual mean					1,634	1998
Lowest annual mean					66.8	1977
Highest daily mean	10,200	Dec 22	10,200	Dec 22	32,500	Dec 27, 1951
Lowest daily mean	9.4	Sep 25	9.5	Sep 10	0.02	Jul 29, 1977
Annual seven-day minimum	13	Sep 19	12	Sep 6	0.09	Jul 23, 1977
Maximum peak flow			27,400	Dec 2	48,700	Nov 16, 1981
Maximum peak stage			18.72	Dec 2	24.55	Dec 27, 1951
Annual runoff (ac-ft)	412,900		304,200		486,800	
10 percent exceeds	1,430		769		1,610	
50 percent exceeds	134		127		186	
90 percent exceeds	15		14		23	

