



Water-Data Report 2013

11368000 McCloud River above Shasta Lake, CA

Sacramento River Basin

LOCATION.--Lat 40°57'30", long 122°13'07" referenced to North American Datum of 1927, Shasta County, CA, Hydrologic Unit 18020004, unsurveyed, on right bank, just upstream from Shasta Lake, 0.2 mi downstream from Big Bollibokka Creek, and 11.3 mi east of Lamoine.

DRAINAGE AREA.--604 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.--October 1945 to current year. Prior to 1950, published as "above Shasta Reservoir."

CHEMICAL DATA: 1951, 1953-59.

WATER TEMPERATURE: Water years 1951, 1954-59.

REVISED RECORDS.--WSP 1445: 1953 (instantaneous maximum discharge). WSP 1931: Drainage area. WDR CA-94-4: 1993 (peaks above base).

GAGE.--Water-stage recorder. Datum of gage is 1,100.00 ft above NGVD of 1929 (levels by U.S. Bureau of Reclamation).

COOPERATION.--Records were collected by Pacific Gas and Electric Co., under general supervision of the U.S. Geological Survey, in connection with Federal Energy Regulatory Commission project no. 2106.

REMARKS.--Low flow completely regulated by Lake McCloud (station 11367740) 16.5 mi upstream since Nov. 3, 1965. Diversions to Iron Canyon Reservoir (station 11363920) began Dec. 1, 1965. See schematic diagram of Pit River and McCloud River Basins available from the California Water Science Center.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 51,300 ft³/s, Jan. 1, 1997, gage height, 29.00 ft, from rating curve extended above 15,000 ft³/s on basis of slope-area measurement of peak flow; minimum daily, 109 ft³/s, Dec. 16-20, 1971. Minimum prior to regulation by Lake McCloud, 825 ft³/s, Jan. 3, 1950.

PEAK DISCHARGES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 4,500 ft³/s and (or) maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Dec 2	0600	*30,100	*24.98

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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	273	360	11,700	616	674	463	610	404	296	344	279	294
2	273	312	20,200	593	655	470	601	399	295	332	279	294
3	273	302	7,510	575	644	479	582	393	293	329	279	294
4	282	297	3,190	560	636	486	616	389	300	321	278	294
5	295	294	2,950	550	633	511	711	387	294	312	277	294
6	293	294	2,280	545	628	857	864	387	292	307	276	292
7	289	295	1,710	538	655	800	916	393	291	303	276	291
8	289	298	1,230	550	637	717	853	399	289	299	275	290
9	289	305	1,060	616	601	652	781	401	287	296	276	289
10	289	302	942	681	575	607	726	380	285	293	276	286
11	289	301	859	682	555	588	680	376	286	291	275	287
12	291	300	796	650	537	588	645	377	284	289	274	288
13	296	300	728	619	527	599	612	375	281	288	273	287
14	297	299	679	587	524	607	584	372	279	286	271	287
15	293	297	644	564	522	606	564	343	277	282	271	287
16	291	298	653	547	519	593	541	337	275	279	271	287
17	285	542	849	537	520	574	522	337	273	277	270	294
18	321	480	760	534	510	551	506	332	273	275	269	295
19	322	483	692	534	532	538	497	323	274	273	267	291
20	325	1,100	667	537	502	764	484	319	275	271	267	291
21	316	1,950	675	542	486	829	475	312	273	270	269	378
22	369	729	825	553	474	726	461	310	271	268	267	332
23	356	541	1,490	591	473	665	453	309	273	276	266	298
24	411	458	1,500	773	477	628	448	308	347	278	266	293
25	361	414	1,120	854	471	601	440	306	464	278	266	291
26	343	386	951	935	464	594	435	304	897	273	267	290
27	330	363	838	928	457	588	427	315	552	271	264	289
28	317	438	773	855	457	588	422	321	431	271	263	289
29	313	2,050	730	797	---	568	415	308	383	270	262	327
30	308	8,130	683	757	---	547	411	302	359	269	264	467
31	321	---	644	701	---	615	---	299	---	272	283	---
Total	9,600	22,918	70,328	19,901	15,345	18,999	17,282	10,817	9,949	8,943	8,416	9,066
Mean	310	764	2,269	642	548	613	576	349	332	288	271	302
Max	411	8,130	20,200	935	674	857	916	404	897	344	283	467
Min	273	294	644	534	457	463	411	299	271	268	262	286
Ac-ft	19,040	45,460	139,500	39,470	30,440	37,680	34,280	21,460	19,730	17,740	16,690	17,980

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1946 - 1965, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	1,121	1,252	2,080	2,077	2,617	2,177	2,467	1,965	1,460	1,159	1,059	1,020
Max	1,899	2,162	6,513	4,525	7,493	3,966	4,599	2,978	2,248	1,715	1,489	1,395
(WY)	(1951)	(1951)	(1956)	(1953)	(1958)	(1958)	(1963)	(1958)	(1958)	(1958)	(1958)	(1958)
Min	856	870	856	903	1,040	1,265	1,320	1,085	1,069	901	852	839
(WY)	(1950)	(1950)	(1950)	(1949)	(1948)	(1964)	(1964)	(1947)	(1949)	(1950)	(1950)	(1950)

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SUMMARY STATISTICS

Water Years 1946 - 1965		
Annual mean	1,699	
Highest annual mean	2,703	1958
Lowest annual mean	1,213	1950
Highest daily mean	36,100	Dec 21, 1955
Lowest daily mean	825	Jan 3, 1950
Annual seven-day minimum	826	Oct 9, 1950
Maximum peak flow	^a 45,200	Dec 22, 1955
Maximum peak stage	28.20	Dec 22, 1955
Annual runoff (ac-ft)	1,231,000	
10 percent exceeds	2,670	
50 percent exceeds	1,270	
90 percent exceeds	928	

^a From rating curve extended above 6,400 ft³/s on basis of slope-area measurement of peak flow.

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1967 - 2013, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	330	539	922	1,366	1,458	1,566	1,025	742	456	334	293	298
Max	855	4,068	3,681	6,043	5,118	5,825	4,497	2,354	1,379	540	409	408
(WY)	(2009)	(1974)	(1997)	(1970)	(1986)	(1983)	(2006)	(2006)	(1998)	(1998)	(1998)	(2008)
Min	206	227	235	222	232	248	226	232	215	200	192	200
(WY)	(1992)	(1992)	(1977)	(1991)	(1977)	(1977)	(1977)	(1977)	(1977)	(1977)	(1991)	(1991)

SUMMARY STATISTICS

	Calendar Year 2012	Water Year 2013	Water Years 1967 - 2013
Annual total	289,238	221,564	
Annual mean	790	607	775
Highest annual mean			1,720
Lowest annual mean			230
Highest daily mean	20,200	Dec 2	45,000
Lowest daily mean	269	Jan 16	109
Annual seven-day minimum	272	Jan 11	113
Maximum peak flow			51,300
Maximum peak stage		24.98	29.00
Annual runoff (ac-ft)	573,700	439,500	561,100
10 percent exceeds	1,410	776	1,520
50 percent exceeds	400	377	380
90 percent exceeds	279	274	260

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