

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)
Mar 16	0300	*9,160	*17.40
Mar 31	1600	6,020	15.51

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DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2011 TO SEPTEMBER 2012
DAILY MEAN VALUES

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	350	332	351	292	519	418	4,700	928	463	367	304	279
2	353	330	348	286	540	400	2,930	877	459	360	304	280
3	353	335	348	285	491	394	2,150	891	457	368	304	279
4	374	340	348	281	451	402	1,820	868	525	364	304	279
5	539	338	339	281	419	414	1,570	798	525	361	303	278
6	402	351	339	281	402	421	1,400	765	473	358	298	277
7	370	343	339	277	415	405	1,250	740	459	353	297	281
8	364	334	334	277	528	396	1,130	716	438	350	296	281
9	362	333	330	276	524	389	1,040	698	429	348	296	281
10	397	329	330	277	522	380	1,010	675	426	347	295	280
11	407	325	330	273	594	438	1,060	654	422	340	290	280
12	373	325	330	273	570	444	1,790	639	418	338	289	278
13	366	325	330	273	555	932	2,690	625	411	338	289	278
14	362	325	327	273	517	1,700	2,230	614	405	337	289	278
15	357	323	341	273	484	3,950	1,820	604	403	325	290	279
16	357	346	316	269	455	7,660	1,630	592	408	323	290	278
17	353	344	285	271	435	5,560	1,540	584	408	325	288	277
18	353	348	277	288	422	2,430	1,480	571	408	327	287	277
19	353	349	277	308	408	1,630	1,400	558	404	324	288	274
20	353	351	277	427	399	1,310	1,350	543	393	320	286	274
21	349	357	277	639	386	1,150	1,330	536	390	316	281	273
22	348	574	275	500	389	1,150	1,300	529	394	315	281	273
23	348	463	273	464	395	1,060	1,250	520	401	314	281	274
24	348	589	273	419	383	993	1,180	519	389	313	281	273
25	348	470	273	453	379	945	1,110	514	380	311	281	273
26	348	414	273	553	368	899	1,440	511	384	310	281	274
27	348	393	273	580	360	1,620	1,230	495	378	308	281	275
28	348	376	278	495	368	3,890	1,120	486	368	306	281	273
29	339	365	279	443	459	2,560	1,040	478	359	306	281	273
30	339	358	332	418	---	4,740	984	474	358	307	281	273
31	339	---	313	409	---	5,520	---	468	---	305	279	---
Total	11,300	11,085	9,615	11,114	13,137	54,600	47,974	19,470	12,535	10,284	8,976	8,302
Mean	365	370	310	359	453	1,761	1,599	628	418	332	290	277
Max	539	589	351	639	594	7,660	4,700	928	525	368	304	281
Min	339	323	273	269	360	380	984	468	358	305	279	273
Ac-ft	22,410	21,990	19,070	22,040	26,060	108,300	95,160	38,620	24,860	20,400	17,800	16,470

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 - 2012, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	331	534	892	1,382	1,478	1,586	1,034	751	459	335	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 2011		Water Year 2012		Water Years 1967 - 2012	
Annual total	309,053		218,392			
Annual mean	847		597		778	
Highest annual mean					1,720	
Lowest annual mean					230	
Highest daily mean	4,340	Mar 26	7,660	Mar 16	45,000	Jan 1, 1997
Lowest daily mean	273	Dec 23	269	Jan 16	109	Dec 16, 1971
Annual seven-day minimum	274	Dec 21	272	Jan 11	113	Dec 15, 1971
Maximum peak flow			9,160	Mar 16	51,300	Jan 1, 1997
Maximum peak stage			17.40	Mar 16	29.00	Jan 1, 1997
Annual runoff (ac-ft)	613,000		433,200		563,800	
10 percent exceeds	1,630		1,140		1,540	
50 percent exceeds	530		360		380	
90 percent exceeds	339		278		260	

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