

Water-Data Report 2013

11365000 Pit River near Montgomery Creek, CA

Sacramento River Basin

LOCATION.--Lat 40°50'38", long 122°00'05" referenced to North American Datum of 1927, in NE ¼ SW ¼ sec.32, T.35 N., R.1 W., Shasta County, CA, Hydrologic Unit 18020003, Shasta National Forest, on left bank, 0.7 mi downstream from Pit No. 7 Dam and Powerplant, 1.4 mi upstream from Potem Creek, and 4.1 mi west of town of Montgomery Creek.

DRAINAGE AREA.--4,952 mi², excluding Goose Lake Basin.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--October 1944 to current year (monthly discharge only December 1964 to May 1965). Monthly discharge only for some periods, published in WSP 1315-A.

CHEMICAL DATA: Water years 1951, 1953, 1955-81.

WATER TEMPERATURE: Water years 1951, 1954-57, 1959.

REVISED RECORDS.--WSP 1931: Drainage area. WDR CA-86-4: 1983 (instantaneous maximum discharge).

GAGE.--Water-stage recorder. Datum of gage is 1,000.00 ft above NGVD of 1929 (levels by Pacific Gas and Electric Co.). October 1944 to Feb. 17, 1963, at site 0.7 mi upstream at different datum. Feb. 17, 1963, to May 21, 1965, at site 1.5 mi upstream at different datum. May 21, 1965, to June 20, 1981, at site 0.9 mi downstream at datum 36.00 ft higher.

COOPERATION.--Records, including contents at end of month for Pit No. 6 Reservoir (station 11364100), discharge for Pit No. 6 Powerplant (station 11364150), and contents at end of month for Pit No. 7 Reservoir (station 11364700), provided by Pacific Gas and Electric Company, 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 many reservoirs and powerplants, total usable reservoir capacity, 337,000 acre-ft. Many diversions upstream from station for irrigation. Diversion from McCloud River to Iron Canyon Reservoir (station 11363920) began December 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, 73,000 ft³/s, Jan. 24, 1970, gage height, 32.36 ft, site and datum then in use, maximum gage height, 74.65 ft, Feb. 19, 1986; minimum daily, 30 ft³/s, July 12, 27, 1975, result of construction work below Pit No. 7 Powerplant.

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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	2,750	2,570	7,340	3,890	4,580	4,710	4,640	3,030	2,810	2,430	2,580	1,840
2	2,320	2,070	10,900	4,320	5,230	4,650	5,020	2,950	2,460	2,160	2,320	2,630
3	2,110	2,590	8,450	5,480	5,090	4,480	5,120	3,180	3,510	3,170	3,060	3,020
4	2,270	2,660	8,070	3,890	4,400	4,330	4,940	2,510	3,200	1,420	2,240	2,420
5	2,560	2,350	7,610	3,780	3,680	2,720	5,460	2,900	3,150	2,680	3,240	2,470
6	1,450	3,180	7,920	3,690	3,800	4,700	6,530	3,260	2,800	2,800	2,450	2,160
7	2,450	4,420	8,170	2,470	5,150	4,940	6,280	4,180	2,940	3,190	2,320	1,990
8	2,510	3,770	7,850	2,890	4,910	5,310	5,980	2,770	1,820	3,420	2,730	1,910
9	2,040	3,340	7,210	3,650	4,860	4,550	5,770	4,150	2,350	2,170	1,860	2,410
10	2,330	2,110	5,830	3,540	6,000	4,840	5,420	4,560	3,480	3,600	2,340	3,260
11	2,350	2,760	4,610	6,210	5,740	4,830	5,130	3,590	3,040	3,110	2,770	2,590
12	2,850	3,450	4,550	4,100	3,490	3,090	5,260	3,360	2,750	2,470	2,480	2,530
13	2,520	3,780	5,590	5,680	4,760	3,260	4,670	4,200	2,850	3,310	2,580	2,970
14	2,620	3,200	3,410	3,140	3,680	4,900	4,250	2,130	2,840	2,830	2,480	2,460
15	2,390	2,360	3,440	4,090	3,490	4,780	5,020	2,000	2,790	2,850	3,190	3,320
16	2,460	2,090	1,740	3,200	4,680	4,640	4,050	2,180	2,070	2,770	2,710	1,820
17	2,510	2,270	2,750	2,880	3,190	4,770	4,580	2,770	3,480	1,780	2,340	2,300
18	2,660	2,160	3,960	2,560	3,200	4,190	5,160	2,710	2,230	3,120	2,820	2,710
19	2,450	3,030	4,390	2,670	4,390	4,090	3,230	3,070	2,270	1,880	2,820	2,770
20	2,120	5,290	4,550	2,450	3,860	5,020	3,230	3,870	2,660	3,390	2,610	2,780
21	2,250	5,490	6,170	2,650	4,760	3,730	3,200	3,690	2,790	2,910	3,150	2,310
22	2,520	4,680	6,010	3,930	4,640	5,140	4,560	2,710	3,290	3,160	2,800	2,760
23	2,510	3,880	6,990	3,360	4,810	6,070	3,300	2,580	2,380	1,720	2,210	2,890
24	2,800	4,300	6,750	3,790	5,010	4,320	3,250	3,370	3,030	3,210	3,200	2,970
25	3,290	3,120	6,480	2,970	3,870	3,810	3,200	2,760	2,580	2,940	3,590	2,650
26	3,020	4,120	6,710	4,110	4,990	3,920	2,740	3,080	3,770	2,860	5,160	3,410
27	2,940	4,430	2,570	4,430	4,670	4,220	2,590	3,160	3,410	2,540	2,370	3,090
28	3,050	5,520	2,970	3,780	3,480	4,130	3,340	3,310	2,640	2,410	2,390	2,710
29	3,010	5,220	2,270	3,880	---	4,510	3,260	2,970	3,820	2,610	1,160	2,900
30	3,080	6,250	3,100	3,720	---	5,050	2,710	2,500	1,730	2,270	2,110	2,510
31	2,360	---	4,880	4,840	---	4,550	---	2,930	---	2,750	2,090	---
Total	78,550	106,460	173,240	116,040	124,410	138,250	131,890	96,430	84,940	83,930	82,170	78,560
Mean	2,534	3,549	5,588	3,743	4,443	4,460	4,396	3,111	2,831	2,707	2,651	2,619
Max	3,290	6,250	10,900	6,210	6,000	6,070	6,530	4,560	3,820	3,600	5,160	3,410
Min	1,450	2,070	1,740	2,450	3,190	2,720	2,590	2,000	1,730	1,420	1,160	1,820
Ac-ft	155,800	211,200	343,600	230,200	246,800	274,200	261,600	191,300	168,500	166,500	163,000	155,800
Contents, in acre-feet, at end of month for Pit No. 6 Reservoir (station 11364100)												
	15,290	13,812	10,026	12,695	14,657	14,426	12,359	14,409	12,302	13,965	12,569	13,176
Discharge, in acre-feet, for Pit No. 6 Powerplant (station 11364150)												
	160,100	198,300	295,000	212,100	222,900	256,500	237,900	184,000	165,100	163,800	160,800	161,900
Contents, in acre-feet, at end of month for Pit No. 7 Reservoir (station 11364700)												
	32,924	30,136	31,532	32,958	31,718	33,508	31,352	32,778	32,787	32,753	29,400	31,749

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STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1945 - 1965, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	2,643	2,828	3,821	4,320	5,592	5,331	5,711	4,297	3,127	2,376	2,231	2,284
Max	5,999	3,710	9,541	11,240	12,970	8,212	13,350	7,380	5,044	3,037	2,651	2,744
(WY)	(1963)	(1951)	(1956)	(1956)	(1958)	(1956)	(1952)	(1952)	(1953)	(1958)	(1958)	(1959)
Min	2,112	2,232	2,219	2,137	2,500	3,225	3,404	2,299	2,353	1,935	1,971	1,899
(WY)	(1950)	(1950)	(1950)	(1949)	(1948)	(1964)	(1947)	(1947)	(1950)	(1949)	(1947)	(1949)

SUMMARY STATISTICS

	Water Years 1945 - 1965	
Annual mean	3,704	
Highest annual mean	5,529	1956
Lowest annual mean	2,658	1947
Highest daily mean	32,100	Dec 23, 1955
Lowest daily mean	150	Jul 19, 1965
Annual seven-day minimum	1,610	Jul 19, 1965
Maximum peak flow	37,100	Dec 23, 1955
Maximum peak stage	14.12	Dec 23, 1955
Annual runoff (ac-ft)	2,684,000	
10 percent exceeds	6,080	
50 percent exceeds	3,010	
90 percent exceeds	1,740	

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1966 - 2013, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	3,268	3,894	4,699	6,182	6,697	7,590	6,339	5,378	3,921	3,211	3,027	3,024
Max	5,865	8,683	9,814	20,890	18,670	16,030	12,920	11,900	8,911	4,633	4,187	4,257
(WY)	(1997)	(1997)	(1982)	(1970)	(1986)	(1983)	(1982)	(1995)	(1998)	(1998)	(1983)	(1998)
Min	1,995	2,533	2,408	2,632	2,784	3,241	2,626	2,404	2,268	2,291	2,049	1,428
(WY)	(2009)	(1993)	(1991)	(1991)	(1991)	(1977)	(1977)	(1992)	(1992)	(1994)	(1992)	(1966)

SUMMARY STATISTICS

	Calendar Year 2012	Water Year 2013	Water Years 1966 - 2013
Annual total	1,330,139	1,294,870	
Annual mean	3,634	3,548	4,760
Highest annual mean			7,693
Lowest annual mean			2,808
Highest daily mean	10,900	Dec 2	10,900
Lowest daily mean	959	Aug 3	1,160
Annual seven-day minimum	2,030	Aug 2	2,080
Maximum peak flow			19,300
Maximum peak stage			67.07
Annual runoff (ac-ft)	2,638,000	2,568,000	3,448,000
10 percent exceeds	6,110	5,220	8,320
50 percent exceeds	3,070	3,180	3,890
90 percent exceeds	2,210	2,270	2,240

^a Result of construction work below Pit No. 7 Powerplant.

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