

**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 mi<sup>2</sup>, 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 ft<sup>3</sup>/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 ft<sup>3</sup>/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 2011 TO SEPTEMBER 2012**  
**DAILY MEAN VALUES**

[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	3,030	3,900	3,570	1,710	2,470	2,670	9,020	4,750	3,590	2,210	4,410	2,350
2	2,680	4,820	4,600	2,270	2,970	2,710	8,430	4,820	2,680	3,040	1,830	2,330
3	3,060	4,250	3,990	1,240	3,330	3,160	7,260	4,800	2,590	3,150	959	1,890
4	3,200	3,860	3,340	2,880	2,550	3,170	6,540	4,090	2,630	1,770	2,260	2,380
5	2,810	3,670	3,320	3,000	3,070	3,050	6,380	5,960	4,590	2,770	2,560	2,210
6	2,860	3,590	3,120	2,910	2,980	2,820	7,220	6,350	4,310	2,630	2,320	2,260
7	2,780	3,910	2,820	2,550	2,610	2,820	5,510	5,940	6,790	2,780	2,330	2,750
8	3,210	3,600	3,210	3,590	3,070	2,930	5,840	2,920	1,840	2,730	1,950	2,550
9	2,560	2,960	2,930	3,130	3,080	2,710	5,640	2,970	1,950	3,160	2,460	2,530
10	2,840	3,260	3,170	3,240	3,000	2,820	5,810	4,520	2,110	3,180	e2,260	2,340
11	2,860	3,840	3,310	2,790	3,200	2,890	6,970	4,410	3,590	3,300	2,670	2,500
12	3,760	3,350	3,670	3,040	3,330	3,270	3,420	4,420	3,620	2,950	2,640	2,970
13	4,340	3,050	3,030	3,560	3,440	4,200	4,870	3,940	1,330	2,260	2,030	2,940
14	3,880	3,000	2,480	3,240	3,240	7,070	6,240	4,860	2,550	2,160	2,700	2,710
15	2,340	3,140	2,500	3,140	3,260	8,150	5,770	4,430	2,310	1,330	3,560	2,330
16	2,460	3,120	2,790	2,920	3,290	10,500	4,970	3,680	2,410	2,080	2,640	2,460
17	3,210	3,070	2,520	3,190	3,260	9,890	4,980	2,880	1,780	2,300	3,230	2,650
18	2,880	2,820	2,440	3,250	3,260	8,320	4,500	4,100	2,830	2,560	2,480	3,390
19	2,880	3,750	2,620	3,760	3,330	7,060	4,750	2,950	3,150	3,760	2,370	2,340
20	3,320	3,540	5,090	4,580	3,590	5,430	5,550	3,440	3,010	2,790	2,540	2,730
21	3,010	2,590	6,270	3,870	3,210	5,360	4,750	4,020	2,550	2,470	2,650	2,990
22	3,060	2,590	1,730	4,430	3,030	5,990	4,430	3,400	2,930	1,620	2,850	2,810
23	3,270	3,190	1,590	6,090	3,210	7,050	4,730	4,180	2,190	3,570	3,290	2,930
24	3,600	3,100	2,190	5,080	3,400	5,640	4,270	2,390	1,990	2,880	2,810	3,410
25	3,300	3,010	2,600	3,230	2,980	5,750	5,060	2,690	3,070	2,640	2,000	1,460
26	3,610	3,810	3,020	3,540	3,240	4,760	3,620	2,170	3,090	2,370	2,000	2,330
27	3,390	2,950	4,440	3,190	3,700	5,680	4,020	2,370	3,350	2,530	3,120	3,140
28	3,470	2,950	4,030	2,430	3,160	6,910	5,250	2,470	3,410	1,970	4,220	2,830
29	3,010	3,480	1,980	2,940	3,320	7,150	6,020	3,380	2,510	2,490	2,620	2,180
30	3,200	2,860	2,240	2,990	---	8,070	4,140	3,190	2,650	2,550	1,920	2,240
31	3,440	---	1,390	3,480	---	9,430	---	2,980	---	3,790	2,390	---
<b>Total</b>	97,320	101,030	96,000	101,260	91,580	167,430	165,960	119,470	87,400	81,790	80,069	76,930
<b>Mean</b>	3,139	3,368	3,097	3,266	3,158	5,401	5,532	3,854	2,913	2,638	2,583	2,564
<b>Max</b>	4,340	4,820	6,270	6,090	3,700	10,500	9,020	6,350	6,790	3,790	4,410	3,410
<b>Min</b>	2,340	2,590	1,390	1,240	2,470	2,670	3,420	2,170	1,330	1,330	959	1,460
<b>Ac-ft</b>	193,000	200,400	190,400	200,800	181,600	332,100	329,200	237,000	173,400	162,200	158,800	152,600
<b>Contents, in acre-feet, at end of month for Pit No. 6 Reservoir (station 11364100)</b>												
	14,461	14,441	11,703	13,669	10,917	14,971	15,396	13,462	14,642	11,142	12,912	14,973
<b>Discharge, in acre-feet, for Pit No. 6 Powerplant (station 11364150)</b>												
	189,500	194,500	185,700	193,900	188,700	305,100	295,300	225,300	171,500	164,100	148,500	149,800
<b>Contents, in acre-feet, at end of month for Pit No. 7 Reservoir (station 11364700)</b>												
	33,083	32,923	26,582	23,144	32,134	33,284	31,782	33,105	33,107	33,365	30,151	28,001

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

SUMMARY STATISTICS

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

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1966 - 2012, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
<b>Mean</b>	3,283	3,901	4,680	6,234	6,745	7,657	6,381	5,427	3,944	3,222	3,035	3,032
<b>Max</b>	5,865	8,683	9,814	20,890	18,670	16,030	12,920	11,900	8,911	4,633	4,187	4,257
<b>(WY)</b>	(1997)	(1997)	(1982)	(1970)	(1986)	(1983)	(1982)	(1995)	(1998)	(1998)	(1983)	(1998)
<b>Min</b>	1,995	2,533	2,408	2,632	2,784	3,241	2,626	2,404	2,268	2,291	2,049	1,428
<b>(WY)</b>	(2009)	(1993)	(1991)	(1991)	(1991)	(1977)	(1977)	(1992)	(1992)	(1994)	(1992)	(1966)

SUMMARY STATISTICS

	Calendar Year 2011	Water Year 2012	Water Years 1966 - 2012
<b>Annual total</b>	1,778,200	1,266,239	
<b>Annual mean</b>	4,872	3,460	4,786
<b>Highest annual mean</b>			7,693
<b>Lowest annual mean</b>			2,808
<b>Highest daily mean</b>	15,400	Mar 16	10,500
<b>Lowest daily mean</b>	1,390	Dec 31	959
<b>Annual seven-day minimum</b>	2,630	Dec 13	1,960
<b>Maximum peak flow</b>			15,500
<b>Maximum peak stage</b>			65.85
<b>Annual runoff (ac-ft)</b>	3,527,000	2,512,000	3,467,000
<b>10 percent exceeds</b>	8,420	5,450	8,360
<b>50 percent exceeds</b>	3,920	3,080	3,910
<b>90 percent exceeds</b>	2,730	2,260	2,240

<sup>a</sup> Result of construction work below Pit No. 7 Powerplant.

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