

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 and crest-stage gage. 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 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 2008 TO SEPTEMBER 2009
DAILY MEAN VALUES

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	2,010	3,170	1,850	3,310	2,690	9,630	4,930	3,320	2,130	2,980	2,690	2,140
2	1,600	3,250	2,570	3,100	3,520	11,300	4,040	3,690	2,580	2,340	2,560	2,820
3	2,050	2,350	2,230	3,330	3,040	12,100	4,720	4,330	2,670	2,440	2,120	2,620
4	1,970	2,270	3,570	5,300	3,610	12,100	5,140	4,150	2,770	2,290	2,400	2,480
5	1,840	2,530	3,870	3,100	3,950	11,000	4,620	4,930	2,990	2,260	2,440	2,480
6	2,130	2,970	2,560	1,690	3,490	9,750	5,770	4,760	2,270	2,620	2,620	2,300
7	2,040	2,860	2,360	2,600	4,010	9,770	4,830	4,550	3,390	2,320	3,340	2,100
8	2,200	2,800	2,660	2,480	4,110	8,200	2,690	3,810	3,150	2,380	3,620	2,250
9	1,960	3,020	2,810	2,880	4,350	7,590	3,090	4,000	3,810	3,210	1,880	2,630
10	1,190	2,600	2,090	2,580	3,380	7,790	3,480	3,720	3,240	2,580	2,560	2,730
11	1,540	2,740	2,520	2,640	3,380	6,440	3,190	3,920	3,530	2,530	2,410	2,340
12	2,030	3,010	2,400	2,760	3,660	5,550	3,350	3,180	3,550	2,600	2,440	2,070
13	1,690	2,940	2,700	2,900	4,500	6,350	2,810	3,480	3,760	2,110	2,360	2,080
14	1,970	3,210	2,710	2,920	3,770	5,640	3,000	3,180	3,360	2,350	2,180	1,920
15	1,900	3,030	3,020	3,040	4,740	5,350	2,610	3,330	3,340	2,470	2,660	2,080
16	1,900	3,100	2,770	2,640	4,230	8,890	3,030	3,380	2,930	2,850	2,380	2,120
17	2,050	2,920	3,100	2,480	4,900	10,700	3,220	3,030	2,970	2,690	2,600	2,420
18	1,950	3,070	3,260	2,750	4,510	9,530	3,100	3,350	3,190	2,230	2,330	2,380
19	1,740	2,890	3,690	2,730	4,640	7,440	3,060	2,960	3,180	2,630	2,280	2,420
20	1,930	2,580	3,300	3,580	4,450	8,050	3,090	2,560	3,100	2,860	2,350	2,200
21	1,900	3,780	4,990	2,210	4,210	9,860	2,830	2,710	2,670	2,560	2,330	3,030
22	1,980	1,870	3,650	3,060	7,280	9,000	3,090	2,680	2,850	2,590	2,330	2,600
23	1,970	1,910	2,960	2,860	6,630	6,050	3,240	1,450	2,670	2,280	2,300	2,030
24	1,760	2,510	4,030	3,650	11,800	7,360	2,500	1,510	2,770	2,310	2,040	2,430
25	2,050	2,350	3,680	4,230	8,640	8,640	2,820	1,870	3,070	3,050	2,540	2,250
26	2,380	2,850	2,170	3,220	8,360	7,420	2,620	2,180	2,590	2,260	2,390	2,440
27	1,220	2,470	2,270	3,440	8,610	6,880	2,740	2,410	2,340	2,220	2,590	2,490
28	2,120	2,160	3,820	3,420	8,680	7,380	2,670	2,330	3,000	2,370	2,610	2,200
29	2,820	2,550	2,730	4,290	---	6,250	2,460	2,500	2,980	2,550	2,250	2,180
30	2,520	2,520	3,420	3,760	---	4,190	2,940	2,110	2,670	2,660	2,540	2,260
31	3,440	---	2,890	3,010	---	4,720	---	2,310	---	2,240	2,660	---
Total	61,850	82,280	92,650	95,960	143,140	250,920	101,680	97,690	89,520	77,830	76,800	70,490
Mean	1,995	2,743	2,989	3,095	5,112	8,094	3,389	3,151	2,984	2,511	2,477	2,350
Max	3,440	3,780	4,990	5,300	11,800	12,100	5,770	4,930	3,810	3,210	3,620	3,030
Min	1,190	1,870	1,850	1,690	2,690	4,190	2,460	1,450	2,130	2,110	1,880	1,920
Ac-ft	122,700	163,200	183,800	190,300	283,900	497,700	201,700	193,800	177,600	154,400	152,300	139,800
Contents, in acre-feet, at end of month for Pit No. 6 Reservoir	12,100	14,000	14,300	14,500	15,100	14,900	13,800	13,900	14,900	14,500	14,200	14,500
Discharge, in acre-feet, for Pit No. 6 Powerplant	130,800	161,700	184,700	178,100	200,900	355,600	226,200	255,500	173,800	165,500	159,800	147,200
Contents, in acre-feet, at end of month for Pit No. 7 Reservoir	32,700	31,100	33,300	33,000	33,300	32,100	32,000	33,100	33,000	33,300	33,200	33,300

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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 - 2009, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	3,318	3,956	4,732	6,377	6,922	7,741	6,398	5,440	3,927	3,236	3,052	3,044
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 2008	Water Year 2009	Water Years 1966 - 2009
Annual total	1,198,362	1,240,810	
Annual mean	3,274	3,399	4,835
Highest annual mean			7,693 1974
Lowest annual mean			2,808 1992
Highest daily mean	7,010 Mar 2	12,100 Mar 3	53,900 Jan 23, 1970
Lowest daily mean	538 Sep 5	1,190 Oct 10	^a 30 Jul 12, 1975
Annual seven-day minimum	1,200 Sep 4	1,750 Oct 10	939 Sep 5, 1966
Maximum peak flow		15,600 Feb 24	73,000 Jan 24, 1970
Maximum peak stage		65.88 Feb 24	74.65 Feb 19, 1986
Annual runoff (ac-ft)	2,377,000	2,461,000	3,503,000
10 percent exceeds	5,160	5,430	8,410
50 percent exceeds	3,020	2,770	3,930
90 percent exceeds	1,940	2,080	2,210

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

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