



Water-Data Report 2007

12378200 MCDONALD RESERVOIR NEAR CHARLO, MT

Pend Oreille Basin
Lower Flathead Subbasin

LOCATION.--Lat 47°25'31", long 113°59'27" referenced to North American Datum of 1927, in SE ¼ NE ¼ NE ¼ sec.10, T.19 N., R.19 W., Lake County, MT, Hydrologic Unit 17010212, at outlet works on Post Creek, 9 mi east of Charlo, and at river mile 12.4.

DRAINAGE AREA.--Undetermined.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--December 1939, April 1940, September 1940 to current year.

REMARKS.--McDonald Reservoir is one of a group of eight reservoirs known as the Mission Valley Reservoirs. The reservoirs are located in an area east of and tributary to Flathead River and between Flathead Lake and Jocko River, Lake County, Hydrologic Unit 17010212, and are operated for irrigation. April to July 1948 monthend contents and daily maximum for individual reservoirs, published in Water Supply Paper 1080.

Reservoir is formed by earthfill dam; storage began in 1919. Elevations are referenced to the National Geodetic Vertical Datum of 1929. Usable capacity is 8,220 acre-ft, not including contents of natural lake. Prior to 1993, usable capacity was 8,220 acre-ft and 7,200 ac-ft from 1993 to 2002. Dead storage is unknown.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents observed, 8,330 acre-ft, June 30, 1983, elevation, 3,598.5 ft; no storage Aug. 31, 1961, Aug. 30, 1966, Oct. 31, 1971, Apr. 30, 1972, October 1994 through April 1995, August 1999 to Apr. 30, 2000, December 2001 through February 2002.

EXTREMES FOR CURRENT YEAR.--Maximum contents observed, 8,210 acre-ft, June 30, elevation, 3,597.90 ft; minimum observed, 306 acre-ft, Dec. 31, elevation, 3,548.20 ft.

**MISSION VALLEY RESERVOIRS, MONTHEND CONTENTS, IN ACRE-FEET
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007**

Date	Turtle (12371000)	Lower Crow (12376700)	Mission (12377200)	St. Marys (12377300)	Pablo (12377900)	McDonald (12378200)	Kicking Horse (12378300)	Ninepipe (12378400)	Total of 8
October 31	655	2,300	797	2,720	12,130	396	1,850	890	21,740
November 30	614	2,300	797	250	12,130	396	3,880	2,350	22,720
December 31	661	2,300	842	0	12,130	306	4,300	2,180	22,720
January 31	660	2,190	774	0	11,990	335	4,300	2,070	22,320
February 28	351	2,210	980	0	12,530	335	4,380	2,170	22,960
March 31	312	2,160	1,090	1,490	12,530	450	4,600	2,290	24,920
April 30	288	2,730	1,420	3,180	11,850	697	5,120	3,440	28,720
May 31	744	3,420	5,810	16,930	11,220	4,450	5,710	6,020	54,300
June 30	816	3,390	8,250	22,600	19,670	8,210	7,470	13,410	83,810
July 31	358	2,110	5,040	12,640	10,810	5,150	3,360	4,760	44,230
August 31	165	1,960	1,800	3,730	958	750	1,180	890	11,430
September 30	195	1,420	1,170	3,180	7,140	605	1,720	836	16,270