



Water-Data Report 2009

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.

COOPERATION.--Records are furnished by the Bureau of Indian Affairs.

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 an 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 acre-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 monthend storage at times during several years.

EXTREMES FOR CURRENT YEAR.--Maximum monthend contents observed, 7,160 acre-ft, July 31, elevation, 3,592.65 ft; minimum monthend contents, 470 acre-ft, Sept. 30, elevation, 3,549.81 ft.

**MISSION VALLEY RESERVOIRS, MONTHEND CONTENTS, IN ACRE-FEET
WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009**

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	511	1,520	2,720	2,770	10,520	3,740	4,300	2,290	28,380
November 30	481	2,130	3,930	220	11,520	5,400	7,680	3,520	34,870
December 31	481	1,910	3,930	220	11,520	5,480	6,180	5,910	35,630
January 31	421	2,220	4,160	840	10,720	5,010	5,910	6,020	35,290
February 28	412	1,770	4,000	840	10,720	5,130	6,590	6,020	35,470
March 31	282	2,320	4,020	1,660	10,910	5,150	5,710	7,540	37,590
April 30	210	2,250	990	3,820	14,790	1,560	2,600	10,820	37,030
May 31	340	2,390	4,980	13,140	9,660	4,500	2,710	6,430	44,150
June 30	401	3,300	4,340	21,580	15,450	5,830	2,780	8,970	62,660
July 31	241	2,050	6,310	15,510	8,990	7,160	3,820	3,750	47,820
August 31	158	3,360	2,280	4,570	5,720	3,170	2,060	1,770	23,080
September 30	309	2,700	870	2,850	970	470	1,520	1,420	11,100