

**06065000 HAUSER LAKE NEAR HELENA, MT**

Upper Missouri Basin  
Upper Missouri Subbasin

LOCATION.--Lat 46°45'58", long 111°53'10" referenced to North American Datum of 1927, in SE ¼ SW ¼ sec.29, T.12 N., R.2 W., Lewis and Clark County, MT, Hydrologic Unit 10030101, at Hauser Dam on Missouri River, 1.6 mi downstream from Prickly Pear Creek, 13 mi northeast of Helena, and at river mile 2,226.4.

DRAINAGE AREA.--16,876 mi<sup>2</sup>.

**SURFACE-WATER RECORDS**

PERIOD OF RECORD.--January 1936 to current year. Records prior to October 1939, published only in Water Supply Paper (WSP) 1309. April to July 1953 scattered daily elevations and contents, published in WSP 1320-B. May to June 1964 daily elevations and contents, published in WSP 1840-B. Monthend contents prior to May 1945 include contents of Lake Helena, excluded thereafter. Records of daily elevations are in files of the USGS Water Science Center located in Helena, Montana.

REVISED RECORDS.--WSP 1729: 1949-57.

GAGE.--Elevation of gage is at sea level (levels by the Montana Power Company).

COOPERATION.--Elevations and capacity table furnished by PPL EnergyPlus, LLC.

REMARKS.--Reservoir is formed by concrete dam completed in 1907; separated from Lake Helena in April 1945. Elevations are referenced to the National Geodetic Vertical Datum of 1929. Usable contents is 61,870 acre-ft, between elevation 3,617.00 ft, bottom of tunnel, and 3,635.00 ft top of flashboards. Dead storage is 46,810 acre-ft below elevation 3,617.00 ft. Prior to Nov. 28, 1949, usable capacity was 52,090 acre-ft at elevation 3,635.00 ft, decrease caused by construction of Canyon Ferry Dam in backwater of Hauser Dam. Storage is not normally drawn below 3,621.00 ft, 8,870 acre-ft. Capacity above elevation 3,625.0 updated in 1990. Figures given herein represent usable contents. Water is used for power and recreation.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents observed, 66,040 acre-ft, Mar. 14, 2003, elevation, 3,635.70 ft; no storage Jan. 31, Feb. 29, 1936.

EXTREMES FOR CURRENT YEAR.--Maximum contents observed, 63,840 acre-ft, Nov. 21, elevation, 3,635.33 ft; minimum observed, 59,040 acre-ft, Mar. 2-4, elevation, 3,634.50.

**MONTHEND ELEVATION AND CONTENTS AT 2400 HOURS,  
SEPTEMBER 2010 TO SEPTEMBER 2011**

<b>Date</b>	<b>Elevation (feet)</b>	<b>Contents (acre-feet)</b>	<b>Change in Contents (acre-feet)</b>
September 30	3,635.27	63,480	--
October 31	3,635.28	63,540	+60
November 30	3,635.20	63,060	-480
December 31	3,634.60	59,610	-3,450
Calendar Year 2010	--	--	-1,690
January 31	3,634.61	59,670	+60
February 28	3,634.60	59,610	-60
March 31	3,634.77	60,570	+960
April 30	3,635.19	63,000	+2,430
May 31	3,635.21	63,120	+120
June 30	3,635.12	62,580	-540
July 31	3,635.18	62,940	+360
August 31	3,635.18	62,940	0
September 30	3,634.92	61,420	-1,520
Water Year 2011	--	--	-2,060