



Water-Data Report 2006

**06079500 GIBSON RESERVOIR NEAR AUGUSTA, MT**

Upper Missouri Basin  
Sun Subbasin

LOCATION.--Lat 47°36'09", long 112°45'39" referenced to North American Datum of 1927, in NE ¼ NW ¼ SE ¼ sec.4, T.21 N., R.9 W., Teton County, Hydrologic Unit 10030104, at Gibson Dam on Sun River, 19 mi northwest of Augusta, and at river mile 100.8.

DRAINAGE AREA.--575 mi<sup>2</sup>.

**SURFACE-WATER RECORDS**

PERIOD OF RECORD.--January 1930 to current year. Records prior to October 1940, 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. Nonrecording gage read daily. Records of daily elevations are in files of the USGS Water Science Center located in Helena, Montana.

COOPERATION.--Records furnished by Bureau of Reclamation.

REMARKS.--Elevation of gage is at sea level (levels by Bureau of Reclamation). Reservoir is formed by concrete dam with glory-hole spillway completed in 1929. Elevations are referenced to the National Geodetic Vertical Datum of 1929. Usable capacity is 96,480 acre-ft, between elevation 4,557.5 ft, bottom of outlet, and 4,724.0 ft, top of glory-hole, by capacity table effective Oct. 1, 1997; see previous reports for superseded figures. Water is used for irrigation and recreation.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 116,300 acre-ft, June 8, 1964, elevation, 4,732.23 ft, from floodmark, of which 11,600 acre-ft was uncontrolled storage, by capacity table used Oct. 1, 1965 to July 30, 1975; minimum observed, 11 acre-ft, Oct. 13, 1936, elevation, 4,560.9 ft by capacity table used prior to 1939.

EXTREMES FOR CURRENT YEAR.--Maximum contents observed, 96,390 acre-ft, June 2, elevation, 4,723.93 ft; minimum, 5,080 acre-ft, Oct. 1, elevation, 4,609.22 ft.

**MONTHEND ELEVATION AND CONTENTS AT 2400 HOURS,  
SEPTEMBER 2005 TO SEPTEMBER 2006**

Date	Elevation (feet)	Contents (acre-feet)	Change in Contents (acre-feet)
September 30	4,609.22	5,080	--
October 31	4,611.26	5,720	+640
November 30	4,610.67	5,530	-190
December 31	4,619.39	8,760	+3,230
Calendar Year 2005	--	--	-23,880
January 31	4,626.55	11,910	+3,150
February 28	4,630.49	13,810	+1,900
March 31	4,634.98	16,110	+2,300
April 30	4,687.89	54,560	+38,450
May 31	4,723.60	95,960	+41,400
June 30	4,717.02	87,530	-8,430
July 31	4,654.53	27,480	-60,050
August 31	4,615.45	7,210	-20,270
September 30	4,623.57	10,550	+3,340
Water Year 2006	--	--	+5,470