



Water-Data Report 2007

**06307000 TONGUE RIVER RESERVOIR NEAR DECKER, MT**

Tongue Basin  
Upper Tongue Subbasin

LOCATION.--Lat 45°07'48", long 106°46'13" referenced to North American Datum of 1927, in SE ¼ SE ¼ NE ¼ sec.13, T.8 W., R.40 E., Big Horn County, MT, Hydrologic Unit 10090101, at dam on Tongue River, 4 mi upstream from Post Creek, 7 mi northeast of Decker, and at river mile 189.1.

DRAINAGE AREA.--1,770 mi<sup>2</sup>.

**SURFACE-WATER RECORDS**

PERIOD OF RECORD.--December 1938 to current year. Record prior to September 1939, published only in Water Supply Paper (WSP) 1309 and those for January, February 1956, published only in WSP 1729.

REVISED RECORDS.--WSP 1309: 1947-50. WSP 1729: 1951, drainage area.

GAGE.--Elevation of gage is 3,374.40 ft referenced to National Geodetic Vertical Datum of 1929 (levels by Bureau of Reclamation). New capacity table effective September 1, 1996.

COOPERATION.--Records furnished by Montana Department of Natural Resources and Conservation.

REMARKS.--Reservoir is formed by earthfill dam with concrete spillway completed in May 1939. Total capacity is 79,070 acre-ft between elevation 3,374.4 ft, bottom of outlet, and 3,428.4 ft, spillway crest. Prior to October 1947, usable contents was 73,950 acre-ft at same elevations, due to sedimentation study. Dead storage is 711 acre-ft below elevation, 3,374.4 ft. Figures given herein represent usable contents. Water is used for irrigation.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents observed, 85,740 acre-ft (flood-surge storage), June 28, 2007, elevation, 3,430.30 ft; no storage October 1939 to February 1940.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 85,740 acre-ft, June 28, elevation, 3,430.30 ft; minimum contents, 42,980 acre-ft, Oct. 1, elevation, 3,417.00 ft.

**MONTHEND ELEVATION AND CONTENTS  
SEPTEMBER 2006 TO SEPTEMBER 2007**

<b>Date</b>	<b>Elevation (feet)</b>	<b>Contents (acre-feet)</b>	<b>Change in Contents (acre-feet)</b>
September 30	3,416.90	42,720	--
October 31	3,418.40	46,630	+3,910
November 30	3,418.80	47,670	+1,040
December 31	3,418.60	47,150	-520
Calendar Year 2006	--	--	+6,430
January 31	3,419.00	48,190	+1,040
February 28	3,420.00	50,790	+2,600
March 31	3,423.50	61,440	+10,650
April 30	3,422.70	59,000	-2,440
May 31	3,428.70	79,500	+20,500
June 30	3,428.40	78,360	-1,140
July 31*	3,426.00	69,880	-8,480
August 31	3,421.20	54,440	-15,440
September 30	3,418.50	46,890	-7,550
Water Year 2007	--	--	+4,170

\* Within 1-2 days of the end of the month.