

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 mi².

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.--Elevations and capacity table 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 were 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 monthend contents, 82,750 acre-ft, June 12, elevation, 3,429.50 ft; minimum monthend contents, 46,600 acre-ft, Sept. 29, elevation, 3,418.39 ft.

**MONTHEND ELEVATION AND CONTENTS
SEPTEMBER 2010 TO SEPTEMBER 2011**

Date	Elevation (feet)	Contents (acre-feet)	Change in Contents (acre-feet)
September 30	3,420.10	51,100	--
October 31	3,419.87	50,460	-640
November 30	3,419.67	49,930	-530
December 31	3,419.80	50,270	+340
Calendar Year 2010	--	--	+2,860
January 31	3,420.06	50,980	+710
February 28	3,420.85	53,380	+2,400
March 31	3,422.00	56,880	+3,500
April 30	3,420.29	51,680	-5,200
May 31	3,429.06	80,920	+29,240
June 30	3,429.26	81,700	+780
July 31	3,423.53	61,530	-20,170
August 31	3,420.35	51,860	-9,670
September 30	3,418.41	46,650	-5,210
Water Year 2011	--	--	-4,450