

Water-Data Report 2011

06131500 FORT PECK LAKE AT FORT PECK, MT

Fort Peck Lake Basin
Fort Peck Reservoir Subbasin

LOCATION.--Lat 48°00'26", long 106°23'49" referenced to North American Datum of 1927, in sec.14, T.26 N., R.41 E., McCone County, MT, Hydrologic Unit 10040104, in No. 4 emergency gate shaft of Fort Peck Dam on Missouri River at Fort Peck, 2 mi downstream from Bear Creek, 9.5 mi southwest of Nashua, 9.5 mi upstream from Milk River, and at river mile 1,771.6.

DRAINAGE AREA.--57,500 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.--October 1937 to current year. (Monthend contents only, except October 1938 to September 1940, when elevations were included.) Monthend contents for October 1937 to August 1938, published only in Water Supply Paper (WSP) 1309. Daily elevations and contents for May to June 1964, published in WSP 1840-B. Prior to October 1970, published as "Fort Peck Reservoir." Daily elevations are on file at the USGS Water Science Center located in Helena, Montana.

REVISED RECORDS.--WSP 1729: Drainage area.

GAGE.--Water-stage recorder. Prior to May 1, 1941, nonrecording gage at same site and elevation. Elevation of gage is 2095.00 ft, referenced to the National Geodetic Vertical Datum of 1929.

COOPERATION.--Elevations and capacity table furnished by U.S. Army Corps of Engineers.

REMARKS.--Reservoir is formed by earthfill dam completed in 1939; storage began in 1937. The following capacity figures are from capacity table effective July 1, 1973; see previous reports for superseded figures. Total capacity is 18,910,000 acre-ft between elevation 2,095.00 ft, invert of lower ring gates, and 2,250.00 ft, top of 25 ft gates. Elevation of spillway crest is 2,225.00 ft. Normal operating level is 17,930,000 acre-ft, elevation, 2,246.00 ft. Dead storage is 542,800 acre-ft below elevation 2,095.00 ft. Minimum operating level is 4,283,000 acre-ft, elevation, 2,160.00 ft, for on-site power generation. Figures given herein represent total contents; usable contents published in previous water-supply papers for October 1950 to September 1955. Water is used for navigation, recreation, flood control, and power generation. Elevations materially affected by wind.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 19,310,000 acre-ft, July 15-17, 1975, elevation, 2,251.6 ft; minimum since first filling, 5,061,000 acre-ft, Jan. 25, 26, 1956, elevation, 2,167.67 ft, by capacity table used Mar. 1, 1940, to Dec. 31, 1965.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 19,256,000 acre-ft, June 15, elevation, 2,252.30 ft; minimum, 15,243,000 acre-ft, Feb. 12, elevation, 2,235.16.

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

Date	Elevation (feet)	Contents (acre-feet)	Change in Contents (acre-feet)
September 30	2,235.86	15,390,000	--
October 31	2,235.76	15,372,000	-18,000
November 30	2,235.50	15,316,000	-56,000
December 31	2,235.35	15,284,000	-32,000
Calendar Year 2010	--	--	+2,804,000
January 31	2,235.30	15,273,000	-11,000
February 28	2,235.83	15,387,000	+114,000
March 31	2,238.69	16,015,000	+628,000
April 30	2,240.92	16,519,000	+504,000
May 31	2,248.93	18,425,000	+1,906,000
June 30	2,250.74	18,870,000	+445,000
July 31	2,246.58	17,853,000	-1,017,000
August 31	2,241.94	16,755,000	-1,098,000
September 30	2,237.91	15,842,000	-913,000
Water Year 2011	--	--	+452,000