



Water-Data Report 2009

06427000 KEYHOLE RESERVOIR NEAR MOORCROFT WY

Belle Fourche Basin
Upper Belle Fourche Subbasin

LOCATION.--Lat 44°22'55", long 104°46'45" referenced to North American Datum of 1927, in NW ¼ NW ¼ sec.27, T.51 N., R.6 E., Crook County, WY, Hydrologic Unit 10120201.

DRAINAGE AREA.--1,953 mi², approximately.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--March 1952 to current year (monthend contents only).

GAGE.--Water-stage recorder. Elevations listed to NGVD of 1929 (Bureau of Reclamation datum). Prior to May 15, 1958, and Oct. 1, 1968, to March 13, 1970, nonrecording gages, and May 15, 1958 to Sept. 30, 1968, water-stage recorder, all at present site and datum.

COOPERATION.--Records of elevation and contents provided by the Bureau of Reclamation. Data available from Bureau of Reclamation at: http://www.usbr.gov/gp-bin/arcweb_keyr.pl; elevation and end of month content data at: http://www.usbr.gov/gp-bin/res070_form.pl?KEYR

REMARKS.--Reservoir is formed by a zoned earth-fill dam completed by the Bureau of Reclamation Oct. 25, 1952. Storage began Feb. 12, 1952. Inactive storage, between elevations 4,036.0 ft and 4,051.0 ft, 6,300 acre-ft. Total active conservation pool below elevation 4,099.3 ft (crest of spillway), 182,100 acre-ft. Dead storage below elevation 4,036.0 ft, 287 acre-ft. Figures given herein represent inactive and active contents above elevation 4,036.0 ft. Capacities adjusted from sediment survey by the United States Bureau of Reclamation in 2004. The reservoir provides flood control and water for irrigation in Wyoming and near Belle Fourche, SD.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 200,744 acre-ft, May 21, 1978, elevation 4,100.38 ft; minimum daily contents (since appreciable storage was attained), 6,030 acre-ft, Mar. 8, 9, 1955, elevation, 4046.35 ft.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 101,100 acre-ft, Apr. 30, elevation 4,088.64 ft; minimum, 80,600 acre-ft, Oct. 19, elevation 4,084.85 ft.

**MONTHEND ELEVATION AND CONTENTS AT 2400 HOURS
WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009**

Date	Elevation	Contents (acre feet)	Change in contents (acre-feet)
Sept. 30	4,084.99	81,300	--
Oct. 31	4,084.92	81,000	-300
Nov. 30	4,085.01	81,400	400
Dec. 31	4,085.02	81,500	100
CAL YR 2008	--	--	29,600
Jan. 31	4,085.29	82,800	1,300
Feb. 28	4,086.21	87,500	4,700
Mar. 31	4,087.01	91,800	4,300
Apr. 30	4,088.64	101,100	9,300
May 31	4,088.53	100,500	-600
June 30	4,088.45	100,000	-500
July 31	4,088.11	98,000	-2,000
Aug. 31	4,087.91	96,900	-1,100
Sept. 30	4,087.47	94,400	-2,500
WTR YR 2009	--	--	13,100