



Water-Data Report 2007

06411000 PACTOLA RESERVOIR NEAR SILVER CITY, SD

Cheyenne Basin
Rapid Subbasin

LOCATION.--Lat 44°04'20", long 103°29'17" referenced to North American Datum of 1927, in NE ¼ SW ¼ sec.2, T.1 N., R.5 E., Pennington County, SD, Hydrologic Unit 10120110, in outlet works of dam on Rapid Creek, 3.8 mi east of Silver City.

DRAINAGE AREA.--319 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.--August 1956 to current year (monthend contents only).

GAGE.--Water-stage recorder. Elevations listed to NGVD of 1929 (Bureau of Reclamation datum). Prior to Feb. 18, 1970, nonrecording gage at same site and datum.

COOPERATION.--Records of elevation and contents provided by Bureau of Reclamation.

REMARKS.--Reservoir formed by an earthfill dam completed August 1956. Storage began Aug. 22, 1956. Conservation capacity, 54,955 acre-ft between elevations 4,456.1 ft and 4,580.2 ft. Combined dead (122 acre-ft) and inactive storage (895 acre-ft) below elevation 4,456.1 ft is 1,017 acre-ft. Flood storage capacity, 43,057 acre-ft between elevations 4,580.2 ft and 4,621.5 ft (crest of spillway). Surcharge capacity, 41,892 acre-ft between elevations 4,621.5 ft and 4,651.7 ft (maximum pool elevation). Figures given herein represent contents above elevation 4,456.1 ft. Reservoir provides flood control and water for municipal and irrigation uses.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents observed, 60,088 acre-ft, May 19, 1965, elevation, 4,585.87 ft; minimum observed, 23,000 acre-ft, Jan. 24, 1991, elevation, 4,531.53 ft.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 35,500 acre-ft, June 17, elevation, 4,553.84 ft; minimum, 27,500 acre-ft, Sept. 30, elevation, 4,540.22 ft.

**MONTHEND ELEVATION AND CONTENTS AT 2400 HOURS
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007**

Date	Elevation	Contents (acre feet)	Change in contents (acre-feet)
Sept. 30.....	4,546.97	31,300	--
Oct. 31.....	4,546.96	31,300	0
Nov. 30.....	4,546.91	31,200	-100
Dec. 31.....	4,546.63	31,100	-100
CAL YR 2006	--	--	-4,000
Jan. 31.....	4,546.46	31,000	-100
Feb. 28.....	4,546.46	31,000	0
Mar. 31.....	4,548.70	32,300	+1,300
Apr. 30.....	4,550.31	33,300	+1,000
May 31.....	4,551.66	34,100	¹ +800
June 30.....	4,551.93	34,300	+200
July 31.....	4,544.94	30,100	-4,200
Aug. 31.....	4,541.46	28,100	-2,000
Sept. 30.....	4,540.22	27,500	-600
WTR YR 2007	--	--	² -3,800

¹ Previously published as +1,800 acre-ft

² Previously published as -3,600 acre-ft