



Water-Data Report 2008

**14217600 SWIFT RESERVOIR AT COUGAR, WA**

Lower Columbia Basin  
Lewis Subbasin

LOCATION.--Lat 46°03'38", long 122°11'44" referenced to North American Datum of 1927, in NE ¼ SW ¼ sec.28, T.7 N., R.5 E., Skamania County, WA, Hydrologic Unit 17080002, at the intake structure near left bank on Swift Dam on Lewis River, 5.0 mi east of Cougar, and at mile 47.9.

DRAINAGE AREA.--481 mi<sup>2</sup>.

**SURFACE-WATER RECORDS**

PERIOD OF RECORD.--September 1958 to current year.

GAGE.--Water-stage recorder and long distance indicator in powerhouse. Datum of gage is NGVD of 1929 (levels by PacifiCorp).

COOPERATION.--Hourly elevations and capacity table furnished by PacifiCorp. Records reviewed and two inspections made by USGS.

REMARKS.--Reservoir is formed by rock and earthfill dam; storage began Sept. 29, 1958; dam completed in December 1958. Usable capacity, 446,600 acre-ft between elevations 878 ft, lower limit for economic operation, and 1,000.5 ft, maximum operating limit. Dead storage unknown. Figures given herein represent total contents. Water is used by PacifiCorp for power generation.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 759,100 acre-ft, Nov. 15, 1973, elevation 1,000.77 ft; minimum contents since reservoir was first filled, 325,100 acre-ft, May 1, 1967, elevation 883.60 ft.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 755,900 acre-ft, June 21, elevation 1000.06 ft; minimum recorded contents; 423,200 acre-ft, Feb. 24, elevation 915.32 ft.

MONTH-END ELEVATION AND CONTENTS AT 2400  
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008

| Date               | Elevation (feet) | Contents (acre-feet) | Change in contents (acre-feet) |
|--------------------|------------------|----------------------|--------------------------------|
| September 30       | 974.65           | 644,500              | --                             |
| October 31         | 973.07           | 637,800              | -6,700                         |
| November 30        | 975.19           | 646,700              | +8,900                         |
| December 31        | 972.67           | 636,100              | -10,600                        |
| Calendar Year 2007 | --               | --                   | -25,500                        |
| January 31         | 930.59           | 475,200              | -160,900                       |
| February 29        | 916.85           | 428,300              | -46,900                        |
| March 31           | 925.79           | 458,400              | +30,100                        |
| April 30           | 921.23           | 442,900              | -15,500                        |
| May 31             | 996.75           | 740,800              | +297,900                       |
| June 30            | 999.62           | 753,800              | +13,000                        |
| July 31            | 999.18           | 751,800              | -2,000                         |
| August 31          | 998.38           | 748,200              | -3,600                         |
| September 30       | 988.22           | 702,600              | -45,600                        |
| Water Year 2008    | --               | --                   | +58,100                        |