



Water-Data Report 2010

01397050 ROUND VALLEY RESERVOIR AT LEBANON, NJ

RARITAN RIVER BASIN

LOCATION.--Lat 40°36'39", long 74°50'41" referenced to North American Datum of 1983, Clinton Township, Hunterdon County, NJ, Hydrologic Unit 02030105, at South Dam of Round Valley Reservoir on Prescott Brook, 1.8 mi south of Lebanon, 3.2 mi upstream from mouth, and 4.5 mi west of Whitehouse.

DRAINAGE AREA.--5.48 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.--March 1966 to current year.

REVISED RECORDS.--WDR NJ-85-1: 1984. WDR NJ-01-1: 1996 (elevation, contents). WDR NJ-02-1: 2001 (contents), WDR NJ-04-1: (period of record maximum contents)

GAGE.--Nonrecording gage read daily. Datum of gage is National Geodetic Vertical Datum of 1929.

COOPERATION.--Records provided by New Jersey Water Supply Authority.

REMARKS.--Reservoir is formed by earthfill dam at main dam on Prescott Brook and two dams on South Branch Rockaway Creek tributaries at Lebanon; storage began in February 1966. Capacity at spillway level, 55,000,000,000 gal, elevation, 385.00 ft. Reservoir is used primarily for storage and is filled by pumping from South Branch Raritan River at Hamden Pumping Station (see 01396920). Outflow is controlled by operation of gates in pipe in dams. Water is released into South Branch Raritan River, South Branch Rockaway Creek, and Prescott Brook.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents observed, 55,460,000,000 gal, Jun 15, 1975, elevation, 385.63 ft; minimum observed (after first filling), 37,100,000,000 gal, Feb 9, 1981, elevation, 361.30 ft.

EXTREMES FOR CURRENT YEAR.--Maximum contents observed, 55,270,000,000 gal, Mar 16, elevation, 385.27 ft; minimum observed, 48,020,000,000 gal, Sept 27, elevation, 375.52 ft.

MONTHEND ELEVATION AND CONTENTS

Month	Elevation, feet	Contents, million gallons	Change in contents, equivalent in ft ³ /s
September	384.37	54,470	
October	384.42	54,520	+2.5
November	384.30	54,400	-6.2
December	384.74	54,740	+17.0
CALENDAR YEAR 2009			+14.4
January	384.81	54,810	+3.5
February	384.97	54,970	+8.8
March	385.13	55,130	+8.0
April	384.84	54,840	-15.0
May	385.08	55,080	+12.0
June	384.65	54,680	-20.6
July	382.97	53,370	-65.4
August	379.11	50,610	-138
September	375.56	48,060	-131
WATER YEAR 2010			-27.2