



Water-Data Report 2007

01384002 MONKSVILLE RESERVOIR AT MONKS, NJ

PASSAIC RIVER BASIN

LOCATION.--Lat 41°07'21", long 74°17'48" referenced to North American Datum of 1983, Ringwood Borough, Passaic County, NJ, Hydrologic Unit 02030103, at dam on Wanaque River at Monks.

DRAINAGE AREA.--40.4 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.--September 1988 to current year.

GAGE.--Measurement from reference point. Datum of gage is National Geodetic Vertical Datum of 1929.

COOPERATION.--Records provided by North Jersey District Water Supply Commission.

REMARKS.--Reservoir is formed by a roller compacted concrete dam constructed in 1988. Total capacity at spillway level, 7,000,000,000 gal, elevation 400.0 ft. Reservoir used for storage and water released to Wanaque Reservoir. Outflow is controlled by a 60-inch fixed-cone valve in a 72-inch pipe and 10-inch cone valve that can discharge directly into Wanaque Reservoir or into the 72-inch pipe.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents revised, 7,400,000,000 gal, Sep 17-19, 1999, elevation 403.3 ft; minimum, 860,000,000, Sept 28, 1988 (first filling), elevation 339.0 ft.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 7,260,000,000 gal, Apr 17, elevation 401.4 ft; minimum, 5,800,000,000 gal, Dec 12, elevation 392.9 ft.

MONTHEND ELEVATION AND CONTENTS

Month	Elevation, feet	Contents, million gallons	Change in contents, equivalent in ft ³ /s
September	394.6	6,060	
October	397.7	6,600	+26.9
November	396.0	6,310	-15.0
December	394.6	6,080	-11.5
CALENDAR YEAR 2006			-4.4
January	394.1	6,000	-4.0
February	393.6	5,910	-5.0
March	398.2	6,690	+38.9
April	400.2	7,030	+17.5
May	395.5	6,220	-40.4
June	395.7	6,250	+1.5
July	395.9	6,290	+2.0
August	397.6	6,570	+14.0
September	397.4	6,550	-1.0
WATER YEAR 2007			+2.1