



Water-Data Report 2007

**01376700 DEFOREST LAKE AT WEST NYACK, NY**

HACKENSACK RIVER BASIN

LOCATION.--Lat 41°06'22", long 73°57'59" referenced to North American Datum of 1983, Clarkstown Town, Rockland County, NY, Hydrologic Unit 02030103, at dam on Hackensack River, 0.8 mi north of West Nyack.

DRAINAGE AREA.--27.5 mi<sup>2</sup>.

**SURFACE-WATER RECORDS**

PERIOD OF RECORD.--February 1956 to current year.

REVISED RECORDS.--WDR NJ-84-1: Drainage area, WDR NJ-99-1: 1998 (elevation, contents).

GAGE.--Water-stage recorder, owned and operated by United Water New Jersey. Datum of gage is National Geodetic Vertical Datum of 1929.

COOPERATION.--Records provided by United Water New Jersey.

REMARKS.--Reservoir is formed by earthfill dam with sheet piling cutoff and concrete spillway; dam completed and storage began in February 1956. Crest of dam topped by two 50-ft Bascule gates, 5-ft high. Capacity 5,670,000,000 gal, elevation, 85.00 ft, top of Bascule gates. Flow regulated by 12-inch Howell-Bunger valve at elevation, 59.25 ft and 24-inch Howell-Bunger valve at elevation, 61.25 ft. Reservoir used for storage and water released by United Water New Jersey, for municipal water supply.

MONTHEND ELEVATION AND CONTENTS

Month	Elevation, feet	Contents, million gallons	Change in contents, equivalent in ft <sup>3</sup> /s
September	84.88	5,629	
October	85.32	5,775	+7.3
November	85.25	5,723	-2.7
December	85.20	5,738	+7
CALENDAR YEAR 2006			+1
January	85.14	5,718	-1.0
February	85.06	5,691	-1.5
March	85.26	5,757	+3.3
April	85.39	5,799	+2.2
May	84.74	5,587	-10.6
June	83.52	5,195	-20.2
July	81.90	4,692	-25.1
August	80.73	4,337	-17.7
September	78.22	3,594	-38.3
WATER YEAR 2007			-8.6