



Water-Data Report 2009

**01380900 BOONTON RESERVOIR AT BOONTON, NJ**

PASSAIC RIVER BASIN

LOCATION.--Lat 40°53'43", long 74°23'52" referenced to North American Datum of 1983, Boonton Town, Morris County, NJ, Hydrologic Unit 02030103, at dam on Rockaway River, 0.5 mi south of Boonton, and 2.5 mi upstream of Crooked Brook.

DRAINAGE AREA.--119 mi<sup>2</sup>.

**SURFACE-WATER RECORDS**

PERIOD OF RECORD.--April 1904 to current year.

REVISED RECORDS.--WDR NJ-85-1: 1984, WDR NJ-94-1: 1993.

GAGE.--Hook gage. Datum of gage is National Geodetic Vertical Datum of 1929.

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

REMARKS.--Reservoir is formed by a cyclopean masonry dam with earth wings; dam completed and storage began in 1904. Total capacity at spillway level, 7,620,000,000 gal elevation, 305.25 ft of which 7,366,000,000 gal is usable contents above elevation 259.75 ft, sill of lowest outlet gate. Spillway is topped with two Bascule gates, 2 ft high; prior to 1952, flashboards were used. Flow regulated by Bascule gates, three outlets in gatehouse at head of conduit and by two 48-inch pipes (bottom of sluice pipes at elevation 205 ft). Water is diverted from reservoir for municipal supply of Jersey City (see 01380800).

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 8,580,000,000 gal, May 12, 1998, elevation, 309.50 ft; minimum, 1,445,000,000 gal, Jan. 31, 1981, elevation 274.71 ft.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 7,860,000,000 gal, Dec 13, elevation, 306.75 ft; minimum, 6,558,000,000 gal, Oct 25, elevation, 301.58 ft.

MONTHEND ELEVATION AND CONTENTS

Month	Elevation, feet	Contents, million gallons	Change in contents, equivalent in ft <sup>3</sup> /s
September	303.35	6,999	
October	305.58	7,561	+28.0
November	305.46	7,530	-1.6
December	305.67	7,594	+3.2
CALENDAR YEAR 2008			-4
January	305.40	7,515	-3.9
February	305.37	7,508	-4
March	305.42	7,520	+6
April	305.29	7,487	-1.7
May	305.33	7,497	+5
June	305.44	7,525	+1.4
July	305.52	7,546	+1.0
August	305.29	7,487	-2.9
September	304.54	7,298	-9.7
WATER YEAR 2009			+1.3