



Water-Data Report 2006

**01382380 CHARLOTTEBURG RESERVOIR AT CHARLOTTEBURG, NJ**

PASSAIC RIVER BASIN

LOCATION.--Lat 41°01'34", long 74°25'29" referenced to North American Datum of 1983, Passaic County, NJ, Hydrologic Unit 02030103, at dam on Pequannock River in Charlotteburg, 1.1 mi upstream from Macopin River, and 1.5 mi south of Newfoundland.

DRAINAGE AREA.--56.2 mi<sup>2</sup>.

**SURFACE-WATER RECORDS**

PERIOD OF RECORD.--May 1961 to current year.

REVISED RECORDS.--WRD NJ-74: Station number, WDR NJ-99-1: 1998 (elevation, contents).

GAGE.--Water-stage recorder. Datum of gage is National Geodetic Vertical Datum of 1929.

COOPERATION.--Records provided by City of Newark, Division of Water Supply.

REMARKS.--Reservoir is formed by concrete-masonry dam and earth embankment with concrete spillway. Capacity at spillway level, 2,407,000,000 gal at elevation 738.00 ft; storage began May 19, 1961. Spillway equipped with Bascule gate 5-ft high (decommissioned 2001). No dead storage. Outflow is controlled by sluice and formerly by Bascule gates. Water diverted from reservoir since May 21, 1961, for municipal supply of City of Newark (see 01382370).

MONTH-END ELEVATION AND CONTENTS

Month	Elevation, feet	Contents, million gallons	Change in contents, equivalent in ft <sup>3</sup> /s
September	736.95	2,298	
October	738.25	2,434	+6.8
November	738.95	2,509	+3.9
December	738.55	2,466	-2.1
CALENDAR YEAR 2005			+1
January	738.50	2,460	-3
February	738.20	2,428	-1.8
March	736.50	2,254	-8.7
April	738.20	2,428	+9.0
May	738.10	2,418	-5
June	738.65	2,477	+3.0
July	736.35	2,239	-11.9
August	737.20	2,324	+4.2
September	737.35	2,339	+8
WATER YEAR 2006			+2