



Water-Data Report 2010

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, West Milford Township, 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 mi².

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, owned and operated by City of Newark, Division of Water Supply. Prior to 2010, staff gage only. 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, 2,964,000,000 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). Unknown amount of water diverted into reservoir from Echo Lake beginning around 1961 (see 01382400).

MONTHEND ELEVATION AND CONTENTS

Month	Elevation, feet	Contents, million gallons	Change in contents, equivalent in ft ³ /s
September	734.15	2,030	
October	735.70	2,176	+7.3
November	736.03	2,212	+1.5
December	738.45	2,455	+12.1
CALENDAR YEAR 2009			0
January	738.35	2,444	-5
February	738.25	2,434	-6
March	739.23	2,534	+5.0
April	738.25	2,434	-5.2
May	736.93	2,308	-6.3
June	735.61	2,186	-6.3
July	734.79	2,100	-4.3
August	734.37	2,061	-1.9
September	734.44	2,068	+4
WATER YEAR 2010			+2