



Water-Data Report 2013

**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 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, 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 at elevation 738.00 ft. Capacity at spillway level, 2,407,000,000 gal. Storage began May 19, 1961. Spillway equipped with Bascule gate 5-ft high (decommissioned 2001). Storage with gates raised is 2,964,000,000 gal. 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 <sup>3</sup> /s |
|--------------------|-----------------|---------------------------|--|
| September          | 734.20          | 2,045                     |  |
| October            | 735.72          | 2,189                     | +7.2   |
| November           | 734.75          | 2,097                     | -4.7   |
| December           | 738.28          | 2,444                     | +17.3  |
| CALENDAR YEAR 2012 |                 |                           | 0  |
| January            | 738.73          | 2,491                     | +2.3   |
| February           | 738.56          | 2,473                     | -1.0   |
| March              | 738.25          | 2,440                     | -1.6   |
| April              | 738.04          | 2,419                     | -1.1   |
| May                | 738.11          | 2,426                     | +3   |
| June               | 738.04          | 2,419                     | -.4  |
| July               | 736.93          | 2,308                     | -5.5   |
| August             | 736.03          | 2,219                     | -4.4   |
| September          | 735.89          | 2,206                     | -.7  |
| WATER YEAR 2013    |                 |                           | +7   |