



Water-Data Report 2010

01382200 OAK RIDGE RESERVOIR AT OAK RIDGE, NJ

PASSAIC RIVER BASIN

LOCATION.--Lat 41°02'26", long 74°30'04" referenced to North American Datum of 1983, Jefferson Township, Morris County, NJ, Hydrologic Unit 02030103, at dam on Pequannock River, 0.9 mi southwest of Oak Ridge.

DRAINAGE AREA.--27.3 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.--October 1923 to current year.

REVISED RECORDS.--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 earthfill dam with concrete-core wall and ogee overflow section; dam constructed between 1880-92; dam raised 10 ft between 1917-19. Capacity at spillway level, 3,895,000,000 gal, elevation, 846.0 ft. Reservoir used for storage and water released for diversion at Macopin Intake Dam on Pequannock River prior to May 21, 1961, and diversion at Charlotteburg Reservoir on Pequannock River since May 21, 1961 (see 01382370), for municipal supply of City of Newark. Outflow is controlled mostly by operation of gates in pipes through dam.

MONTHEND ELEVATION AND CONTENTS

Month	Elevation, feet	Contents, million gallons	Change in contents, equivalent in ft ³ /s
September	843.1	3,489	
October	842.7	3,434	-2.7
November	844.5	3,683	+12.8
December	844.8	3,725	+2.1
CALENDAR YEAR 2009			-3
January	844.8	3,725	0
February	844.8	3,725	0
March	844.8	3,725	0
April	846.1	3,909	+9.5
May	845.9	3,881	-1.4
June	840.5	3,138	-38.3
July	840.8	3,177	+1.9
August	837.8	2,784	-19.6
September	834.0	2,302	-24.9
WATER YEAR 2010			-5.0