



Water-Data Report 2009

01378480 ORADELL RESERVOIR AT ORADELL, NJ

HACKENSACK RIVER BASIN

LOCATION.--Lat 40°57'23", long 74°01'46" referenced to North American Datum of 1983, Oradell Borough, Bergen County, NJ, Hydrologic Unit 02030103, at dam on Hackensack River at Oradell, and 0.8 mi upstream of Hirshfeld Brook.

DRAINAGE AREA.--113 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.--December 1922 to current year.

REVISED RECORDS.--WDR NJ-84-1: Spillway elevation, WDR NJ-89-1: Capacity, WDR NJ-99-1: 1998 (elevation, contents).

GAGE.--Water-stage recorder, owned and operated by United Water New Jersey. Datum of gage is National Geodetic Vertical Datum of 1929.

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

REMARKS.--Reservoir is formed by hollow concrete dam, completed in 1922. Capacity at spillway level, 3,507,000,000 gal, elevation, 23.16 ft. Flow regulated by seven sluice gates (7 by 9 ft). Prior to May 1990, water was released for diversion by United Water New Jersey, 0.6 mi downstream from dam for municipal supply. Water is presently diverted from Oradell Reservoir at Haworth by United Water New Jersey, for municipal supply (see 01378478).

MONTHEND ELEVATION AND CONTENTS

Month	Elevation, feet	Contents, million gallons	Change in contents, equivalent in ft ³ /s
September	20.88	2,915	
October	18.24	2,292	-31.1
November	19.00	2,467	+9.0
December	23.33	3,555	+54.3
CALENDAR YEAR 2008			+2.6
January	21.46	3,059	-24.7
February	20.62	2,851	-11.5
March	17.73	2,177	-33.6
April	19.19	2,511	+17.2
May	20.79	2,892	+19.0
June	22.97	3,456	+29.1
July	22.49	3,328	-6.4
August	21.63	3,102	-11.2
September	15.90	1,781	-68.2
WATER YEAR 2009			-4.8