

RESERVOIRS IN HACKENSACK RIVER BASIN

01376700 DE FOREST LAKE.--Lat 41°06'22", long 73°57'59", Rockland County, NY, Hydrologic Unit 02030103, at dam on Hackensack River, 0.8 mi north of West Nyack, NY.

DRAINAGE AREA.-- 27.5 mi².

PERIOD OF RECORD.-- February 1956 to current year.

REVISED RECORDS.-- WDR NJ-84-1: Drainage area, WDR NJ-99-1: 1998 (elevation, contents).

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

REMARKS.--Reservoir is formed by earthfill dam with sheet piling cutoff and concrete spillway; dam completed and storage began in February 1956. Crest of dam topped by two 50 ft Bascule gates, 5 ft high. Capacity 5,670,000,000 gal, elevation, 85.00 ft, top of Bascule gates. Flow regulated by 12-inch Howell-Bunger valve at elevation, 59.25 ft and 24-inch Howell-Bunger valve at elevation, 61.25 ft. Reservoir used for storage and water released by United Water New Jersey, for municipal water supply.

COOPERATION.--Records provided by United Water New Jersey (formerly Hackensack Water Company).

01376950 LAKE TAPPAN.--Lat 41°01'06", long 74°00'04", Bergen County, NJ, Hydrologic Unit 02030103, at dam on Hackensack River, 0.5 mi north of Old Tappan.

DRAINAGE AREA.-- 49.0 mi².

PERIOD OF RECORD.--October 1966 to current year.

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

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

REMARKS.--Reservoir is formed by earthfill dam, completed in 1966. Capacity, 3,853,000,000 gal, elevation, 55.00 ft at top of Bascule gates. Flow regulated by four Bascule gates and one sluice gate. Water is released for diversion at New Milford (diversion discontinued May 1990) and Haworth by United Water New Jersey, for municipal water supply.

COOPERATION.--Records provided by United Water New Jersey (formerly Hackensack Water Company).

01377450 WOODCLIFF LAKE.--Lat 41°00'46", long 74°02'57", Bergen County, NJ, Hydrologic Unit 02030103, at dam on Pascack Brook, 0.7 mi north of Hillsdale.

DRAINAGE AREA.-- 19.4 mi².

PERIOD OF RECORD.-- December 1929 to current year.

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

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

REMARKS.--Reservoir is formed by earthfill dam, completed about 1905. The dam was modified in 1984, which increased capacity, 871,000,000 gal, elevation, 95.00 ft at top of Bascule gates. Flow is regulated by two Bascule gates 85 ft long and 6 ft high each and one 24-inch ball valve. Water is released for diversion at New Milford (diversion discontinued May 1990) and Haworth by United Water New Jersey, for municipal supply.

COOPERATION.--Records provided by United Water New Jersey (formerly Hackensack Water Company).

01378480 ORADELL RESERVOIR.--Lat 40°57'23", long 74°01'46", Bergen County, NJ, Hydrologic Unit 02030103, at dam on Hackensack River at Oradell.

DRAINAGE AREA.-- 113 mi².

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. Datum of gage is National Geodetic Vertical Datum of 1929.

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, 1 mi downstream from dam for municipal supply. Water is presently diverted from reservoir at Haworth by United Water New Jersey, for municipal supply.

COOPERATION.--Records provided by United Water New Jersey (formerly Hackensack Water Company).

MONTHEND ELEVATION AND CONTENTS, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Elevation (feet)†	Contents (million gallons)	Change in contents (equivalent in ft ³ /s)	Elevation (feet)†	Contents (million gallons)	Change in contents (equivalent in ft ³ /s)
01376700 DE FOREST LAKE				01376950 LAKE TAPPAN		
Sept. 30.....	85.06	5,690		51.22	2,576	
Oct. 31.....	85.14	5,717	+1.3	53.03	3,166	+29.4
Nov. 30.....	85.17	5,727	+5	54.94	3,830	+34.2
Dec. 31.....	85.11	5,708	-9	54.54	3,688	-7.1
CAL YR 2003			+1			-1.4
Jan. 31.....	84.88	5,632	-3.8	53.78	3,421	-13.3
Feb. 29.....	84.95	5,654	+1.2	53.98	3,492	+3.8
Mar. 31.....	85.03	5,680	+1.3	55.25	3,941	+22.4
Apr. 30.....	85.10	5,702	+1.1	55.17	3,913	-1.4
May 31.....	85.02	5,675	-1.3	55.11	3,982	-1.0
June 30.....	84.88	5,631	-2.3	54.15	3,550	-17.6
July 31.....	85.26	5,755	+6.2	55.30	3,962	+20.6
Aug. 31.....	84.91	5,649	-5.3	54.67	3,733	-11.4
Sept. 30.....	85.21	5,791	+7.3	55.32	3,968	+12.1
WTR YR 2004			+4			+5.9

† Elevation at 2400 of the last day of each month.

HACKENSACK RIVER BASIN
RESERVOIRS IN HACKENSACK RIVER BASIN—Continued

MONTHEND ELEVATION AND CONTENTS, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Elevation (feet)†	Contents (million gallons)	Change in contents (equivalent in ft ³ /s)	Elevation (feet)†	Contents (million gallons)	Change in contents (equivalent in ft ³ /s)
01377450 WOODCLIFF LAKE				01378480 ORADELL RESERVOIR		
Sept. 30.....	93.26	774		22.19	3,248	
Oct. 31.....	93.53	789	+7	22.91	3,439	+9.5
Nov. 30.....	91.13	660	-6.7	22.42	3,307	-6.8
Dec. 31.....	89.98	600	-3.0	22.09	3,220	-4.3
CAL YR 2003			-3			+3
Jan. 31.....	89.32	567	-1.6	20.77	2,889	-16.5
Feb. 29.....	90.90	647	+4.3	22.58	3,350	+24.6
Mar. 31.....	90.77	641	-3	22.68	3,376	+1.3
Apr. 30.....	91.02	654	+7	23.28	3,539	+8.4
May 31.....	93.95	812	+7.9	22.95	3,450	-4.4
June 30.....	93.04	762	-2.6	20.41	2,799	-33.6
July 31.....	94.41	838	+3.8	22.85	3,424	+31.2
Aug. 31.....	90.78	641	-9.8	22.47	3,322	-5.1
Sept. 30.....	92.54	735	+4.8	22.64	3,367	+2.3
WTR YR 2004			-2			+5

† Elevation at 2400 of the last day of each month.