Water-Data Report 2008

01383000 GREENWOOD LAKE AT AWOSTING, NJ

PASSAIC RIVER BASIN

LOCATION.--Lat 41°09′42″, long 74°20′00″ referenced to North American Datum of 1983, West Milford Township, Passaic County, NJ, Hydrologic Unit 02030103, in gatehouse near right end of Greenwood Lake Dam on Wanaque River at Awosting.

DRAINAGE AREA.--27.1 mi^2.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--June 1898 to November 1903, June 1907 to current year (gage heights only prior to October 1953).

REVISED RECORDS.--WDR NJ-94-1: 1993, WDR NJ-97-1: 1995-96.

GAGE.--Water-stage recorder. Datum of gage is 608.86 ft above National Geodetic Vertical Datum of 1929 (levels from New Jersey Geological Survey benchmark). Prior to Oct 1, 1931, staff gage on former railroad bridge at site 100 ft upstream at datum 89.75 ft lower.

REMARKS.--Reservoir is formed by earthfill dam with concrete spillway; dam completed about 1837 and reconstruction completed in 1928 with crest of spillway 0.25 ft lower. Usable capacity, 6,860,000,000 gal between gage heights -4.00 ft, sill of gate, and 10.00 ft, crest of spillway. Dead storage, 7,140,000,000 gal. Outflow mostly regulated by two gates, 3.5 by 5.0 ft. Records given herein represent usable capacity. Lake used for recreation. Diversions by North Jersey District Water Supply Commission from Upper Greenwood Lake enter via Green Brook.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 9,528,000,000 gal, Oct 9-14, 1903, gage height , 14.25 ft, present datum; minimum, 3,160,000,000 gal, several days in November 1900, gage height, 3.50 ft, present datum.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 7,644,000,000 gal, Mar 9, gage height, 11.26 ft; minimum, 6,537,000,000 gal, Oct 8, gage height, 9.47 ft.

MONTHEND ELEVATION AND CONTENTS

Month	Elevation, feet	Contents, million gallons	Change in contents, equivalent in ft^3/s
September	9.61	6,622	
October	10.26	7,021	+19.9
November	10.36	7,083	+3.2
December	10.63	7,251	+8.4
CALENDAR YEAR 2007			+13.1
January	10.18	6,972	-13.9
February	10.39	7,102	+6.9
March	10.27	7,027	-3.7
April	10.26	7,021	-0.3
May	10.31	7,052	+1.5
June	10.01	6,866	-9.6
July	9.98	6,848	-0.9
August	9.81	6,744	-5.2
September	10.20	6,984	+12.4
WATER YEAR 2008			+1.5