



Water-Data Report 2007

**01407965 MANASQUAN RESERVOIR NEAR FARMINGDALE, NJ**

MANASQUAN RIVER BASIN

LOCATION.--Lat 40°10'45", long 74°11'39" referenced to North American Datum of 1983, Howell Township, Monmouth County, NJ, Hydrologic Unit 02040301, at dam on Timber Swamp Brook, 1.6 mi southwest of Farmingdale, and 1.2 mi upstream from the Manasquan River.

DRAINAGE AREA.--3.15 mi<sup>2</sup>.

**SURFACE-WATER RECORDS**

PERIOD OF RECORD.--March 1990 to current year.

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

COOPERATION.--Records provided by New Jersey Water Supply Authority.

REMARKS.--Reservoir is formed by an earthfill dam 4,840 ft long, utilizing a soil-bentonite cut-off wall to control water seepage; dam completed in July 1990 with nominal crest elevation 112.0 ft, but filling began earlier. Usable capacity 4,669,700,000 gal (revised) at elevation 103.0 ft, which represents the normal and service spillway elevation; outflow is regulated through an inlet/outlet tower and the reservoir is filled by pumping from the Manasquan River Intake Pumping Station and the Reservoir Pumping Station through 5.25 mi of 66-in. pipeline (see station 01408029). Water is used for municipal supply.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 4,694,000,000 gal, Mar 26, 1993, elevation, 103.1 ft; minimum (after first filling), 3,250,000,000 gal, Oct 8, 2005, elevation 96.31 ft.

EXTREMES FOR CURRENT YEAR.--Maximum contents 4,670,000,000 gal, Mar 17, elevation, 103.00 ft; minimum, 3,600,000,000 gal, Sept 30, elevation, 98.05 ft.

MONTHEND ELEVATION AND CONTENTS

| Month              | Elevation, feet | Contents, million gallons | Change in contents, equivalent in ft <sup>3</sup> /s |
|--------------------|-----------------|---------------------------|--|
| September          | 101.12          | 4,250                     |  |
| October            | 102.44          | 4,540                     | +14.5  |
| November           | 101.93          | 4,420                     | -6.2   |
| December           | 102.32          | 4,510                     | +4.5   |
| CALENDAR YEAR 2006 |                 |                           | -3   |
| January            | 102.53          | 4,560                     | +2.5   |
| February           | 101.93          | 4,420                     | -7.7   |
| March              | 102.62          | 4,580                     | +8.0   |
| April              | 102.77          | 4,610                     | +1.5   |
| May                | 101.39          | 4,310                     | -15.0  |
| June               | 100.74          | 4,170                     | -7.2   |
| July               | 100.58          | 4,130                     | -2.0   |
| August             | 99.92           | 3,990                     | -7.0   |
| September          | 98.05           | 3,600                     | -20.1  |
| WATER YEAR 2007    |                 |                           | -2.8   |