



Water-Data Report 2009

01403600 GREEN BROOK AT ROCK AVENUE, AT PLAINFIELD, NJ

RARITAN RIVER BASIN

LOCATION.--Lat 40°36'07", long 74°27'27" referenced to North American Datum of 1983, Green Brook Township, Somerset County, NJ, Hydrologic Unit 02030105, on downstream left wingwall of bridge on Rock Avenue in Plainfield, 0.3 mi north of West Front Street, and 0.6 mi south of U.S. Route 22.

DRAINAGE AREA.--18.2 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.--Annual maximum, water years 1972-79, 1992 to current year. Miscellaneous measurements, water years 1972-74, 1979, 1992, 2000-02, 2005-06.

REVISED RECORDS.--WDR NJ-05-1: 1972(M), 1973(M), 1974(M), 1975(M), 1976(M), 1977(M), 1978(M), 1979(M).

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 43.85 ft above NGVD of 1929.

REMARKS.--Satellite telemetry at station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 10,400 ft³/s (based on contracted opening and flow-over-road; determination at bridge on Madison Avenue 1.1 mi downstream; adjusted for change in drainage area), Aug 2, 1973, gage height, 13.6 ft (from high-water mark; adjusted to current datum).

PEAK DISCHARGES FOR CURRENT YEAR.--Maximum discharge, 2,050 ft³/s, Dec 12 at 0245, gage height, 7.82 ft.