

Water-Data Report 2006

01399100 MIDDLE BROOK AT BURNT MILLS, NJ

RARITAN RIVER BASIN

LOCATION.--Lat 40°38'58", long 74°40'54" referenced to North American Datum of 1983, Bedminster Township, Somerset County, NJ, Hydrologic Unit 02030105, on right bank just upstream of low dam, 1,200 ft upstream of bridge on River Road East (Cutting Whitney Road), 2,400 ft downstream of Hoopstick Brook, 1.2 mi northeast of Burnt Mills, and 2.2 mi west of Pluckemin.

DRAINAGE AREA.--6.67 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.--Low-flow partial-record station, water years 1964 to 1967, 1975. Continuous record June 26 to Sept. 30, 2006

GAGE.--Two water-stage recorders at concrete dam with stainless-steel v-notch in the center. Datum of gage is 95 ft NAVD of 1988 from topographic map. Several measurements of water temperature were made during the year. Satellite gage-height telemetry at station.

REMARKS.--Records fair. Flow past station may be affected by irrigation pumpage upstream of gage.

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DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2005 TO SEPTEMBER 2006
DAILY MEAN VALUES
 [e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	---	---	---	---	---	---	---	---	---	6.0	1.2	1.4
2	---	---	---	---	---	---	---	---	---	4.7	1.1	190
3	---	---	---	---	---	---	---	---	---	6.2	0.93	40
4	---	---	---	---	---	---	---	---	---	3.8	1.1	6.3
5	---	---	---	---	---	---	---	---	---	129	0.80	4.2
6	---	---	---	---	---	---	---	---	---	13	0.62	4.5
7	---	---	---	---	---	---	---	---	---	e7.5	0.69	3.0
8	---	---	---	---	---	---	---	---	---	e6.5	0.71	2.4
9	---	---	---	---	---	---	---	---	---	e5.5	0.52	2.0
10	---	---	---	---	---	---	---	---	---	e9.2	0.58	1.8
11	---	---	---	---	---	---	---	---	---	2.9	0.77	1.5
12	---	---	---	---	---	---	---	---	---	3.5	0.48	1.3
13	---	---	---	---	---	---	---	---	---	9.4	0.40	1.2
14	---	---	---	---	---	---	---	---	---	3.7	0.38	8.7
15	---	---	---	---	---	---	---	---	---	3.5	0.50	39
16	---	---	---	---	---	---	---	---	---	3.1	0.63	8.5
17	---	---	---	---	---	---	---	---	---	2.4	0.37	e4.7
18	---	---	---	---	---	---	---	---	---	2.2	0.31	e3.3
19	---	---	---	---	---	---	---	---	---	5.0	0.30	e2.6
20	---	---	---	---	---	---	---	---	---	2.1	0.38	e2.2
21	---	---	---	---	---	---	---	---	---	1.9	0.34	e1.9
22	---	---	---	---	---	---	---	---	---	11	0.24	e1.9
23	---	---	---	---	---	---	---	---	---	8.6	0.19	e2.0
24	---	---	---	---	---	---	---	---	---	2.9	0.28	e1.7
25	---	---	---	---	---	---	---	---	---	2.2	0.29	e1.3
26	---	---	---	---	---	---	---	---	---	1.9	3.8	e1.1
27	---	---	---	---	---	---	---	---	7.7	1.7	4.1	1.0
28	---	---	---	---	---	---	---	---	331	3.7	5.4	0.99
29	---	---	---	---	---	---	---	---	17	2.5	6.6	1.6
30	---	---	---	---	---	---	---	---	8.2	1.6	5.8	1.7
31	---	---	---	---	---	---	---	---	---	1.3	2.0	---
Total	---	---	---	---	---	---	---	---	---	268.5	41.81	343.79
Mean	---	---	---	---	---	---	---	---	---	8.66	1.35	11.5
Max	---	---	---	---	---	---	---	---	---	129	6.6	190
Min	---	---	---	---	---	---	---	---	---	1.3	0.19	0.99
Cfsm	---	---	---	---	---	---	---	---	---	1.30	0.20	1.72
In.	---	---	---	---	---	---	---	---	---	1.50	0.23	1.92

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2006 - 2006, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	---	---	---	---	---	---	---	---	---	8.66	1.35	11.5
Max	---	---	---	---	---	---	---	---	---	8.66	1.35	11.5
(WY)	(---	(---	(---	(---	(---	(---	(---	(---	(---	(2006)	(2006)	(2006)
Min	---	---	---	---	---	---	---	---	---	8.66	1.35	11.5
(WY)	(---	(---	(---	(---	(---	(---	(---	(---	(---	(2006)	(2006)	(2006)

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SUMMARY STATISTICS

	Jun 26 - Sep 30, 2006		Period of Record	
Highest daily mean	331	Jun 28	331	Jun 28, 2006
Lowest daily mean	0.19	Aug 23	0.19	Aug 23, 2006
Maximum peak flow	^a 1,670	Jun 28	^a 1,670	Jun 28, 2006
Maximum peak stage	9.94	Jun 28	9.94	Jun 28, 2006
Instantaneous low flow	0.16	Aug 23	0.003	Aug 26, 1964

^a From rating curve extended above 630 ft³/s.

