

Water-Data Report 2011

**01398900 NORTH BRANCH RARITAN RIVER AT BEDMINSTER, NJ**

RARITAN RIVER BASIN

LOCATION.--Lat 40°40'58", long 74°38'18" referenced to North American Datum of 1983, Somerset County, NJ, Hydrologic Unit 02030105, at bridge on U.S. Route 202, 700 ft upstream of Mine Brook, 0.4 mi east of Bedminster, and 1.0 mi downstream of Peapack Brook.

DRAINAGE AREA.--40.8 mi<sup>2</sup>.

**SURFACE-WATER RECORDS**

PERIOD OF RECORD.--Miscellaneous measurements, water years 2001-02, 2005-09. Continuous-record gaging station, August 2010 to current year.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 124.12 ft NAVD 88.

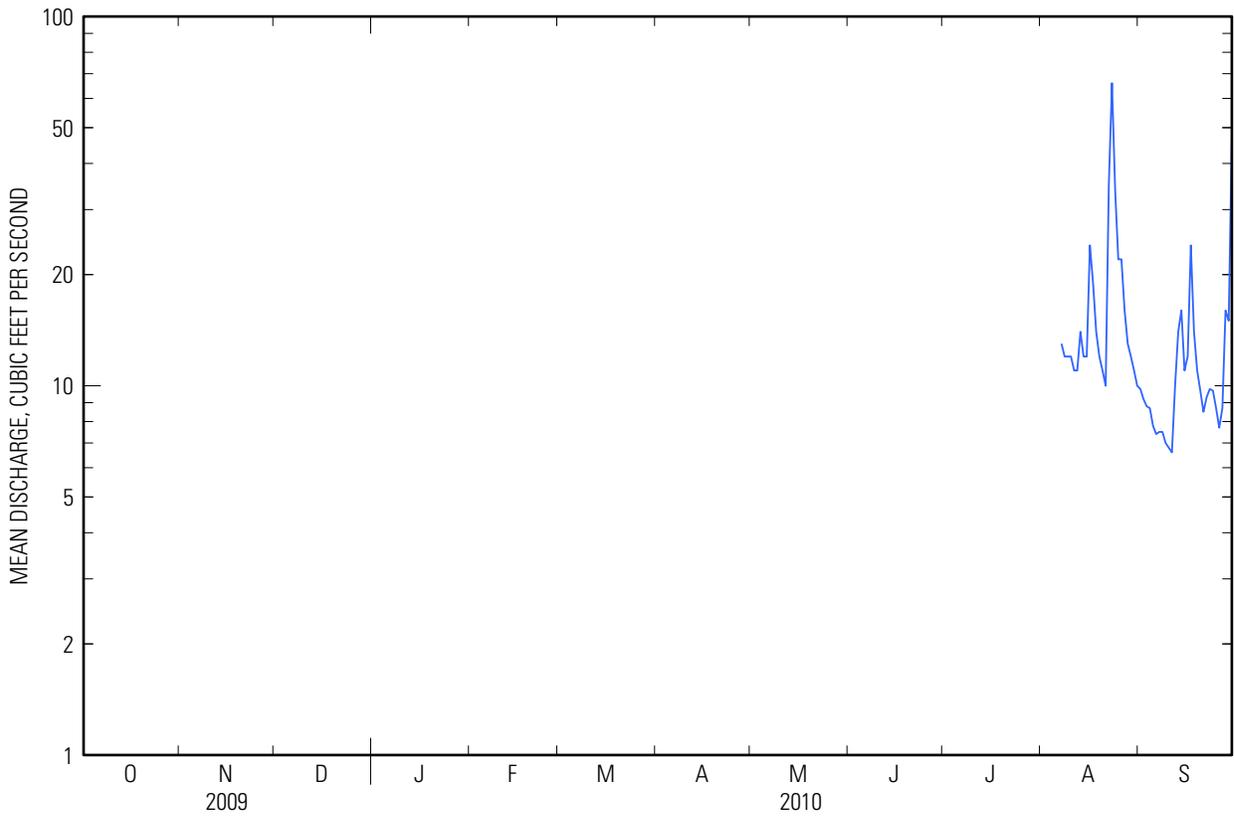
REMARKS.--Records fair, except for estimated daily discharges, which are poor. Several measurements of water temperature were made during the water year. Satellite telemetry at station.

## 01398900 NORTH BRANCH RARITAN RIVER AT BEDMINSTER, NJ—Continued

**DISCHARGE, CUBIC FEET PER SECOND**  
**WATER YEAR OCTOBER 2009 TO SEPTEMBER 2010**  
**DAILY MEAN VALUES**

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	---	---	---	---	---	---	---	---	---	---	---	9.8
2	---	---	---	---	---	---	---	---	---	---	---	9.2
3	---	---	---	---	---	---	---	---	---	---	---	8.8
4	---	---	---	---	---	---	---	---	---	---	---	8.7
5	---	---	---	---	---	---	---	---	---	---	---	7.8
6	---	---	---	---	---	---	---	---	---	---	---	7.4
7	---	---	---	---	---	---	---	---	---	---	13	7.5
8	---	---	---	---	---	---	---	---	---	---	12	7.5
9	---	---	---	---	---	---	---	---	---	---	12	7.0
10	---	---	---	---	---	---	---	---	---	---	12	6.8
11	---	---	---	---	---	---	---	---	---	---	11	6.6
12	---	---	---	---	---	---	---	---	---	---	11	10
13	---	---	---	---	---	---	---	---	---	---	14	14
14	---	---	---	---	---	---	---	---	---	---	12	16
15	---	---	---	---	---	---	---	---	---	---	12	11
16	---	---	---	---	---	---	---	---	---	---	24	12
17	---	---	---	---	---	---	---	---	---	---	19	24
18	---	---	---	---	---	---	---	---	---	---	14	14
19	---	---	---	---	---	---	---	---	---	---	12	11
20	---	---	---	---	---	---	---	---	---	---	11	9.7
21	---	---	---	---	---	---	---	---	---	---	10	8.5
22	---	---	---	---	---	---	---	---	---	---	35	9.3
23	---	---	---	---	---	---	---	---	---	---	66	9.8
24	---	---	---	---	---	---	---	---	---	---	34	9.7
25	---	---	---	---	---	---	---	---	---	---	22	8.7
26	---	---	---	---	---	---	---	---	---	---	22	7.7
27	---	---	---	---	---	---	---	---	---	---	16	8.7
28	---	---	---	---	---	---	---	---	---	---	13	16
29	---	---	---	---	---	---	---	---	---	---	12	15
30	---	---	---	---	---	---	---	---	---	---	11	47
31	---	---	---	---	---	---	---	---	---	---	10	---
<b>Total</b>	---	---	---	---	---	---	---	---	---	---	---	349.2
<b>Mean</b>	---	---	---	---	---	---	---	---	---	---	---	11.6
<b>Max</b>	---	---	---	---	---	---	---	---	---	---	---	47
<b>Min</b>	---	---	---	---	---	---	---	---	---	---	---	6.6

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## 01398900 NORTH BRANCH RARITAN RIVER AT BEDMINSTER, NJ—Continued

**DISCHARGE, CUBIC FEET PER SECOND**  
**WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011**  
**DAILY MEAN VALUES**

[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	722	17	389	27	27	180	127	174	80	31	21	178
2	87	16	135	39	40	133	116	159	73	29	17	153
3	42	16	66	48	52	114	98	147	67	57	15	138
4	31	56	51	32	e36	101	97	209	64	54	19	125
5	35	77	43	30	40	100	102	159	64	35	18	122
6	32	37	37	e25	58	573	94	128	61	30	16	874
7	26	27	34	28	56	894	104	117	58	28	31	728
8	22	24	31	e22	79	284	88	107	54	70	25	1,390
9	20	22	27	e28	e60	221	86	99	57	84	27	458
10	18	21	25	e24	e51	486	79	92	66	37	38	330
11	18	20	27	e24	e39	934	78	86	87	30	21	263
12	27	21	172	e26	e42	367	148	82	67	28	16	222
13	21	19	165	e25	e39	292	350	78	56	25	14	185
14	19	19	67	e22	45	239	158	77	66	24	346	159
15	28	19	46	e27	63	203	125	172	78	22	194	147
16	24	19	44	e28	48	267	410	199	51	21	158	128
17	19	78	39	e25	58	193	870	151	176	20	62	111
18	18	44	36	35	148	165	293	377	72	20	44	102
19	19	28	34	60	174	143	245	282	53	20	103	95
20	18	25	32	51	95	128	217	196	46	18	91	93
21	17	24	31	e39	86	157	180	162	43	18	83	89
22	17	24	30	e28	71	166	156	135	42	17	154	95
23	16	22	29	e32	63	187	291	144	78	16	50	210
24	16	21	28	e31	60	210	206	347	100	15	39	269
25	17	21	27	e34	457	175	189	148	58	27	51	114
26	17	25	e27	e33	202	154	157	127	46	51	58	95
27	19	26	e32	e36	143	142	245	112	41	26	90	85
28	22	23	e30	e33	256	132	471	102	37	21	3,120	175
29	20	22	e29	32	---	123	262	95	36	21	436	200
30	18	21	27	28	---	117	203	117	33	25	280	124
31	18	---	26	e26	---	114	---	89	---	20	215	---
<b>Total</b>	1,443	834	1,816	978	2,588	7,694	6,245	4,669	1,910	940	5,852	7,457
<b>Mean</b>	46.5	27.8	58.6	31.5	92.4	248	208	151	63.7	30.3	189	249
<b>Max</b>	722	78	389	60	457	934	870	377	176	84	3,120	1,390
<b>Min</b>	16	16	25	22	27	100	78	77	33	15	14	85

**STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2010 - 2011, BY WATER YEAR (WY)**

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
<b>Mean</b>	46.5	27.8	58.6	31.5	92.4	248	208	151	63.7	30.3	189	130
<b>Max</b>	46.5	27.8	58.6	31.5	92.4	248	208	151	63.7	30.3	189	249
<b>(WY)</b>	(2011)	(2011)	(2011)	(2011)	(2011)	(2011)	(2011)	(2011)	(2011)	(2011)	(2011)	(2011)
<b>Min</b>	46.5	27.8	58.6	31.5	92.4	248	208	151	63.7	30.3	189	11.6
<b>(WY)</b>	(2011)	(2011)	(2011)	(2011)	(2011)	(2011)	(2011)	(2011)	(2011)	(2011)	(2011)	(2010)

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SUMMARY STATISTICS

	Water Year 2011		Water Years 2010 - 2011	
<b>Annual total</b>	42,426			
<b>Annual mean</b>	116		116	
<b>Highest annual mean</b>			116	2011
<b>Lowest annual mean</b>			116	2011
<b>Highest daily mean</b>	3,120	Aug 28	3,120	Aug 28, 2011
<b>Lowest daily mean</b>	14	Aug 13	6.6	Sep 11, 2010
<b>Annual seven-day minimum</b>	17	Oct 20	7.2	Sep 5, 2010
<b>Maximum peak flow</b>	<sup>a</sup> 6,550	Aug 28	<sup>a</sup> 6,550	Aug 28, 2011
<b>Maximum peak stage</b>	13.07	Aug 28	13.07	Aug 28, 2011
<b>Instantaneous low flow</b>	12	Aug 13	6.4	Sep 11, 2010
<b>10 percent exceeds</b>	229		229	
<b>50 percent exceeds</b>	57		57	
<b>90 percent exceeds</b>	20		20	

<sup>a</sup> From rating extended above 2,700 ft<sup>3</sup>/s.

