



Water-Data Report 2010

01396152 FLANDERS BROOK AT US ROUTE 206, NEAR FLANDERS, NJ

RARITAN RIVER BASIN

LOCATION.--Lat 40°51'21", long 74°42'04" referenced to North American Datum of 1983, Mount Olive Township, Morris County, NJ, Hydrologic Unit 02030105, on upstream left wingwall of bridge on US Route 206 in Flanders, 0.3 mi north of Flanders Netcong Road, 0.8 mi upstream of Drakes Brook, and 1.6 mi east of Mount Olive.

DRAINAGE AREA.--1.97 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.--June 2008 to current year.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 870 ft NAVD 1988 (from topographic map).

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.

PEAK DISCHARGES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 120 ft³/s (revised) and (or) maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Dec 3	0330	128	5.33
Dec 26	2300	124	5.31
Jan 25	1200	332	6.22
Mar 13	2300	*427	6.54
Mar 23	0030	186	5.63

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

[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	1.2	3.1	1.9	6.2	4.7	3.9	16	4.2	2.3	1.2	1.8	0.78
2	1.2	2.3	3.9	5.6	4.5	3.9	13	4.0	2.0	1.2	0.95	0.73
3	1.5	2.1	23	5.1	4.6	4.0	11	19	2.0	1.1	0.85	0.73
4	1.2	2.0	4.0	4.8	4.3	4.0	9.9	5.9	1.9	1.1	0.83	0.72
5	1.2	2.0	3.8	4.5	4.1	4.1	9.0	4.8	1.9	1.1	0.88	0.71
6	1.2	1.9	3.9	4.4	4.1	4.3	8.3	4.5	2.0	1.1	0.91	0.71
7	2.0	1.8	3.4	4.2	3.8	5.1	7.6	4.1	1.9	0.99	0.86	0.72
8	1.2	1.8	3.3	4.2	3.6	6.8	7.2	4.1	1.8	1.0	0.87	0.66
9	1.4	1.7	18	3.8	3.6	8.3	10	3.7	2.9	2.4	0.85	0.64
10	2.3	1.7	7.0	3.6	3.8	7.9	6.6	3.5	3.9	5.9	0.82	0.64
11	1.2	1.7	5.1	3.5	3.6	10	5.9	3.4	2.1	1.8	0.79	0.61
12	1.2	1.6	4.6	3.5	3.4	13	5.4	7.2	1.8	2.5	0.89	1.5
13	1.2	1.7	14	3.3	3.3	130	5.1	4.1	6.3	6.7	0.88	0.99
14	1.2	2.6	8.5	3.3	3.2	85	4.8	3.7	2.7	8.7	0.78	0.82
15	2.2	1.9	7.2	3.3	3.1	35	4.6	3.4	1.8	2.3	1.9	0.69
16	2.6	1.7	5.9	3.4	3.2	22	5.7	3.0	1.6	1.8	1.4	1.3
17	1.8	1.6	5.3	6.3	3.0	17	6.6	2.8	2.8	1.7	0.80	0.82
18	1.4	1.5	4.9	6.3	3.0	14	4.5	8.9	1.8	1.5	0.77	0.69
19	1.3	2.9	4.9	4.0	3.0	11	3.9	4.7	1.7	3.0	0.82	0.66
20	1.2	5.3	4.8	3.6	3.1	9.9	3.8	3.6	1.5	1.6	0.81	0.63
21	1.2	2.1	4.5	3.3	3.0	8.9	3.9	3.2	1.4	1.2	0.79	0.61
22	1.2	1.9	4.3	3.2	2.9	30	4.0	3.1	1.5	1.3	7.3	2.1
23	1.2	1.7	4.1	3.0	4.4	34	3.7	3.4	1.4	1.7	3.0	0.87
24	13	1.7	3.9	3.3	6.4	13	3.5	2.7	1.3	0.98	1.4	0.69
25	3.3	1.8	4.0	71	4.9	11	14	2.4	1.3	1.8	2.1	0.66
26	1.8	1.8	23	11	e4.0	11	16	2.5	1.3	1.1	1.1	0.64
27	3.3	1.7	29	8.2	3.8	8.9	8.0	2.7	1.3	0.97	1.0	1.6
28	12	1.8	9.3	7.1	3.6	8.9	5.5	2.6	4.4	0.95	1.0	1.0
29	3.3	1.7	7.6	5.9	---	36	4.9	2.3	1.4	1.7	0.96	0.79
30	2.5	2.4	6.5	5.3	---	41	4.5	2.3	1.3	0.86	0.88	6.4
31	3.4	---	6.4	4.9	---	20	---	2.3	---	0.89	0.86	---
Total	75.9	61.5	240.0	213.1	106.0	621.9	216.9	132.1	63.3	62.14	39.85	31.11
Mean	2.45	2.05	7.74	6.87	3.79	20.1	7.23	4.26	2.11	2.00	1.29	1.04
Max	13	5.3	29	71	6.4	130	16	19	6.3	8.7	7.3	6.4
Min	1.2	1.5	1.9	3.0	2.9	3.9	3.5	2.3	1.3	0.86	0.77	0.61

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2008 - 2010, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	2.49	2.55	7.86	5.48	3.77	11.7	5.56	3.89	3.19	2.48	1.89	1.78
Max	2.53	3.05	7.98	6.87	3.79	20.1	7.23	4.26	4.81	3.54	3.40	2.80
(WY)	(2009)	(2009)	(2009)	(2010)	(2010)	(2010)	(2010)	(2010)	(2009)	(2009)	(2009)	(2008)
Min	2.45	2.05	7.74	4.09	3.75	3.43	3.90	3.52	2.11	1.91	0.97	1.04
(WY)	(2010)	(2010)	(2010)	(2009)	(2009)	(2009)	(2009)	(2009)	(2010)	(2008)	(2008)	(2010)

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SUMMARY STATISTICS

	Calendar Year 2009		Water Year 2010		Water Years 2008 - 2010	
Annual total	1,345.6		1,863.80			
Annual mean	3.69		5.11		4.45	
Highest annual mean					5.11	2010
Lowest annual mean					3.80	2009
Highest daily mean	32	Aug 2	130	Mar 13	130	Mar 13, 2010
Lowest daily mean	1.1	Sep 21	0.61	Sep 11, 21	0.61	Sep 11, 2010
Annual seven-day minimum	1.2	Sep 19	0.67	Sep 5	0.67	Sep 5, 2010
Maximum peak flow			427	Mar 13	427	Mar 13, 2010
Maximum peak stage			6.54	Mar 13	6.54	Mar 13, 2010
Instantaneous low flow			0.57	Many days	0.57	Many days
10 percent exceeds	5.7		9.1		7.5	
50 percent exceeds	3.0		3.0		3.0	
90 percent exceeds	1.4		0.87		1.2	

