



Water-Data Report 2009

01379868 MILL BROOK AT ROUTE 10, AT VICTORY GARDENS, NJ

PASSAIC RIVER BASIN

LOCATION.--Lat 40°52'23", long 74°32'00" referenced to North American Datum of 1983, Randolph Township, Morris County, NJ, Hydrologic Unit 02030103, on upstream right wingwall of bridge on State Route 10, 0.6 mi east of Victory Gardens, 0.7 mi east of Franklin Road, 0.8 mi upstream of mouth, and 1.4 mi southeast of Dover.

DRAINAGE AREA.--4.26 mi².

SURFACE-WATER RECORDS

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

GAGE.--Water-stage recorder, water temperature, and crest-stage gages. Datum of gage is 550 ft NAVD of 1988 (from topographic map).

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

PEAK DISCHARGES FOR JUNE TO SEPTEMBER 2008.--Peak discharges greater than base discharge of 150 ft³/s and (or) maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Sep 6	2045	*314	*8.16
No other peak greater than base discharge			

PEAK DISCHARGES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 150 ft³/s and (or) maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Dec 12	0215	270	7.95
May 7	0445	171	7.32
Jun 9	0400	284	8.02
Jul 2	0700	309	8.14
Aug 2	1430	*336	*8.26

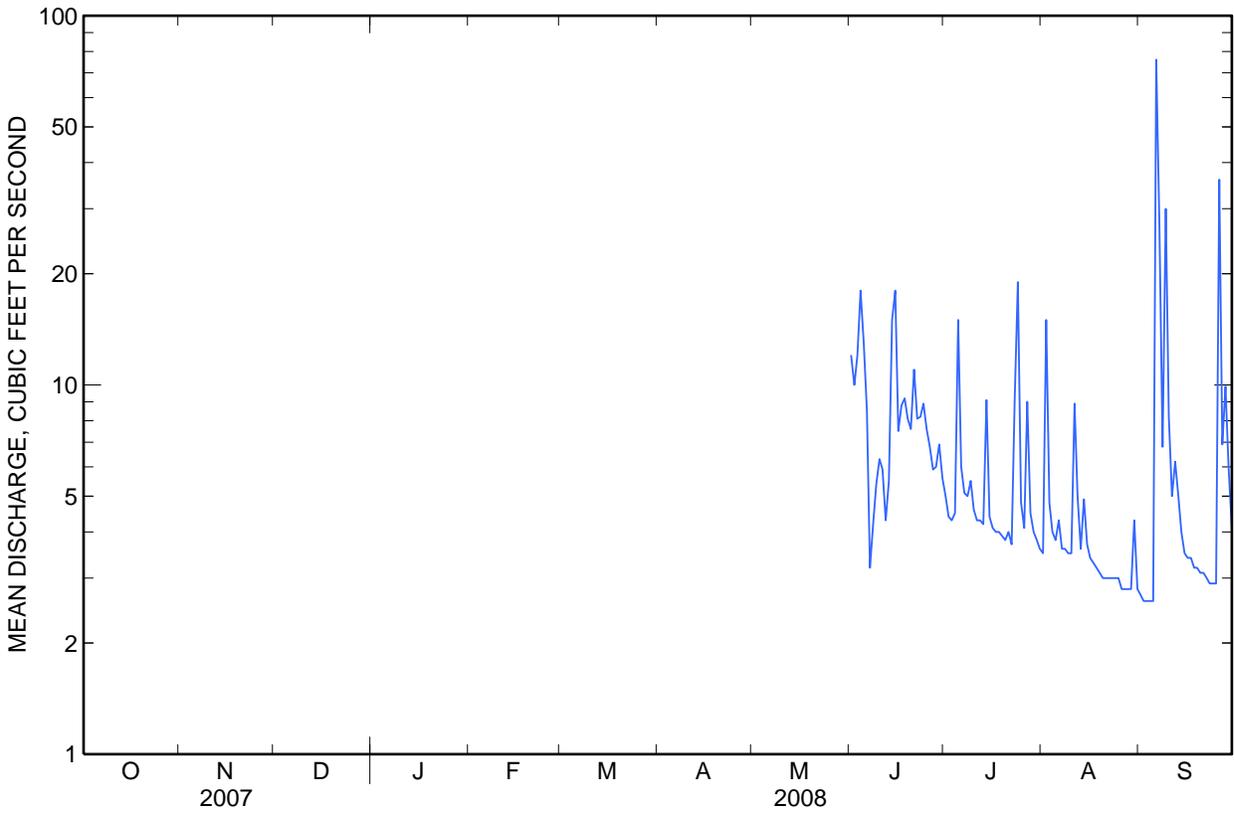
01379868 MILL BROOK AT ROUTE 10, AT VICTORY GARDENS, NJ—Continued

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008
DAILY MEAN VALUES

[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	---	---	---	---	---	---	---	---	12	5.0	3.5	2.7
2	---	---	---	---	---	---	---	---	10	4.4	15	2.6
3	---	---	---	---	---	---	---	---	12	4.3	4.8	2.6
4	---	---	---	---	---	---	---	---	18	4.5	4.0	2.6
5	---	---	---	---	---	---	---	---	13	15	3.8	2.6
6	---	---	---	---	---	---	---	---	8.5	6.0	4.3	76
7	---	---	---	---	---	---	---	---	3.2	5.1	3.6	27
8	---	---	---	---	---	---	---	---	4.2	e5.0	3.6	6.8
9	---	---	---	---	---	---	---	---	5.4	e5.5	3.5	30
10	---	---	---	---	---	---	---	---	6.3	4.6	3.5	8.2
11	---	---	---	---	---	---	---	---	5.9	4.3	8.9	5.0
12	---	---	---	---	---	---	---	---	4.3	4.3	5.0	6.2
13	---	---	---	---	---	---	---	---	e5.5	4.2	3.6	5.0
14	---	---	---	---	---	---	---	---	e15	9.1	4.9	4.0
15	---	---	---	---	---	---	---	---	e18	4.4	3.7	3.5
16	---	---	---	---	---	---	---	---	e7.5	4.1	3.4	3.4
17	---	---	---	---	---	---	---	---	8.8	4.0	3.3	3.4
18	---	---	---	---	---	---	---	---	9.2	4.0	3.2	3.2
19	---	---	---	---	---	---	---	---	8.1	3.9	3.1	3.2
20	---	---	---	---	---	---	---	---	7.6	3.8	3.0	3.1
21	---	---	---	---	---	---	---	---	11	4.0	3.0	3.1
22	---	---	---	---	---	---	---	---	8.1	3.7	3.0	3.0
23	---	---	---	---	---	---	---	---	8.2	9.1	3.0	2.9
24	---	---	---	---	---	---	---	---	8.9	19	3.0	2.9
25	---	---	---	---	---	---	---	---	7.6	4.8	3.0	2.9
26	---	---	---	---	---	---	---	---	6.8	4.1	2.8	36
27	---	---	---	---	---	---	---	---	5.9	9.0	2.8	6.9
28	---	---	---	---	---	---	---	---	6.0	4.5	2.8	9.9
29	---	---	---	---	---	---	---	---	6.9	4.0	2.8	5.9
30	---	---	---	---	---	---	---	---	5.6	3.8	4.3	4.1
31	---	---	---	---	---	---	---	---	---	3.6	2.8	---
Total	---	---	---	---	---	---	---	---	257.5	175.1	125.0	278.7
Mean	---	---	---	---	---	---	---	---	8.58	5.65	4.03	9.29
Max	---	---	---	---	---	---	---	---	18	19	15	76
Min	---	---	---	---	---	---	---	---	3.2	3.6	2.8	2.6

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DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009
DAILY MEAN VALUES

[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	3.7	4.9	17	e12	6.9	6.7	7.5	5.3	5.9	8.0	7.6	5.0
2	3.4	4.5	7.4	12	6.9	e6.9	10	6.1	6.8	81	69	4.7
3	3.3	4.3	6.2	11	7.1	e6.5	32	5.4	10	18	16	4.6
4	3.3	4.2	6.0	10	e6.0	e6.0	16	7.3	18	12	9.1	4.5
5	3.9	4.6	5.7	10	e6.0	e6.4	9.8	7.7	14	10	7.7	4.4
6	3.3	6.9	5.2	9.7	5.7	7.4	12	13	10	9.2	6.9	4.3
7	3.2	4.7	5.1	26	5.5	9.6	9.7	53	7.8	13	6.5	4.2
8	3.1	4.8	e5.0	15	14	8.9	8.2	14	6.8	e9.5	5.9	4.2
9	3.1	4.5	4.9	11	8.7	9.0	7.5	20	70	e8.0	6.2	4.2
10	3.0	4.1	21	9.6	8.4	7.2	7.1	11	14	8.0	6.0	4.0
11	3.0	3.9	50	9.6	12	6.9	8.9	9.8	16	7.9	5.5	6.2
12	3.0	3.8	124	e9.0	16	6.2	7.3	9.4	14	10	11	12
13	3.0	7.7	26	e8.5	11	6.0	6.7	9.1	24	7.5	15	6.4
14	3.1	11	19	e8.0	9.2	6.0	7.0	9.3	19	7.0	8.4	4.9
15	3.1	26	17	e7.0	8.7	5.9	10	9.6	16	e6.5	6.8	4.5
16	3.1	20	16	e6.5	7.8	5.7	7.2	9.4	12	6.6	6.1	4.5
17	3.4	8.9	22	e6.0	7.4	5.7	7.4	13	9.9	8.3	5.5	4.5
18	3.4	7.1	16	e6.4	7.5	5.6	6.8	8.9	39	9.0	5.2	4.3
19	3.5	6.3	16	e6.5	12	6.4	6.1	8.4	18	6.7	5.0	4.1
20	3.5	6.1	13	e6.5	e8.5	5.9	8.4	8.0	23	6.5	4.9	4.0
21	3.7	5.5	12	e6.5	e7.0	5.4	12	7.8	19	10	11	3.6
22	3.8	5.1	e10	e6.5	e7.2	5.4	11	7.5	15	7.1	17	3.6
23	3.8	4.9	10	e6.5	e6.5	5.2	7.5	7.1	12	6.6	8.0	3.5
24	3.8	5.1	28	e6.0	e6.5	5.2	6.5	7.1	11	6.4	6.1	3.6
25	23	17	39	e6.0	e6.5	5.2	5.9	6.7	10	6.1	5.6	3.3
26	18	7.1	17	e5.0	6.3	6.1	5.6	6.8	9.8	6.2	5.2	3.4
27	4.3	5.9	16	e5.9	6.9	7.4	5.2	6.9	9.7	6.5	5.0	10
28	49	5.3	28	15	7.5	5.6	5.1	6.9	8.8	5.5	6.7	4.3
29	16	5.1	18	12	---	8.2	4.6	9.9	8.3	10	9.0	4.0
30	7.6	12	15	7.5	---	7.7	4.9	6.8	8.3	7.0	7.5	3.6
31	5.6	---	14	7.5	---	5.7	---	6.2	---	12	5.3	---
Total	204.0	221.3	609.5	284.7	229.7	202.0	263.9	317.4	466.1	336.1	300.7	142.4
Mean	6.58	7.38	19.7	9.18	8.20	6.52	8.80	10.2	15.5	10.8	9.70	4.75
Max	49	26	124	26	16	9.6	32	53	70	81	69	12
Min	3.0	3.8	4.9	5.0	5.5	5.2	4.6	5.3	5.9	5.5	4.9	3.3

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2008 - 2009, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	6.58	7.38	19.7	9.18	8.20	6.52	8.80	10.2	12.1	8.25	6.87	7.02
Max	6.58	7.38	19.7	9.18	8.20	6.52	8.80	10.2	15.5	10.8	9.70	9.29
(WY)	(2009)	(2009)	(2009)	(2009)	(2009)	(2009)	(2009)	(2009)	(2009)	(2009)	(2009)	(2008)
Min	6.58	7.38	19.7	9.18	8.20	6.52	8.80	10.2	8.58	5.65	4.03	4.75
(WY)	(2009)	(2009)	(2009)	(2009)	(2009)	(2009)	(2009)	(2009)	(2008)	(2008)	(2008)	(2009)

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SUMMARY STATISTICS

	Water Year 2009		Water Years 2008 - 2009	
Annual total	3,577.8			
Annual mean	9.80		9.80	
Highest annual mean			9.80	2009
Lowest annual mean			9.80	2009
Highest daily mean	124	Dec 12	124	Dec 12, 2008
Lowest daily mean	3.0	Oct 10-13	2.6	Many days
Annual seven-day minimum	3.0	Oct 8	2.9	Aug 23, 2008
Maximum peak flow	336	Aug 2	336	Aug 2, 2009
Maximum peak stage	8.26	Aug 2	8.26	Aug 2, 2009
Instantaneous low flow	3.0	Oct 8-14	2.4	Sep 5, 2008
10 percent exceeds	16		16	
50 percent exceeds	7.0		7.0	
90 percent exceeds	4.1		4.1	

