

Water-Data Report 2006

01379790 GREEN POND BROOK AT WHARTON, NJ

PASSAIC RIVER BASIN

LOCATION.--Lat 40°55'04", long 74°35'01" referenced to North American Datum of 1983, Morris County, NJ, Hydrologic Unit 02030103, on left bank 600 ft upstream from bridge on northbound lane of State Route 15, 0.2 mi northwest of Wharton, and 1.7 mi upstream from mouth.

DRAINAGE AREA.--12.6 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.--October 1982 to January 5, 2006 (discontinued).

GAGE.--Water-stage recorder and concrete control. Datum of gage is 680.26 ft above NGVD of 1929 (U.S. Army, Picatinny Arsenal, benchmark).

REMARKS.--Records fair. Some regulation from Lake Picatinny, Picatinny Arsenal sewage treatment plant, and floodgates located about 800 ft upstream from gage. Several measurements of water temperature were made during the year.

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

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	2.4	26	83	38	---	---	---	---	---	---	---	---
2	2.3	22	72	37	---	---	---	---	---	---	---	---
3	2.4	19	60	79	---	---	---	---	---	---	---	---
4	1.9	19	54	70	---	---	---	---	---	---	---	---
5	1.9	18	47	---	---	---	---	---	---	---	---	---
6	2.0	17	41	---	---	---	---	---	---	---	---	---
7	2.6	17	36	---	---	---	---	---	---	---	---	---
8	39	15	31	---	---	---	---	---	---	---	---	---
9	115	15	30	---	---	---	---	---	---	---	---	---
10	54	16	29	---	---	---	---	---	---	---	---	---
11	26	15	27	---	---	---	---	---	---	---	---	---
12	48	14	25	---	---	---	---	---	---	---	---	---
13	81	13	22	---	---	---	---	---	---	---	---	---
14	101	13	20	---	---	---	---	---	---	---	---	---
15	99	12	19	---	---	---	---	---	---	---	---	---
16	86	16	90	---	---	---	---	---	---	---	---	---
17	66	35	82	---	---	---	---	---	---	---	---	---
18	52	25	69	---	---	---	---	---	---	---	---	---
19	42	23	61	---	---	---	---	---	---	---	---	---
20	34	21	54	---	---	---	---	---	---	---	---	---
21	30	21	44	---	---	---	---	---	---	---	---	---
22	29	41	38	---	---	---	---	---	---	---	---	---
23	42	39	33	---	---	---	---	---	---	---	---	---
24	34	35	31	---	---	---	---	---	---	---	---	---
25	58	29	34	---	---	---	---	---	---	---	---	---
26	58	27	54	---	---	---	---	---	---	---	---	---
27	53	24	45	---	---	---	---	---	---	---	---	---
28	48	23	40	---	---	---	---	---	---	---	---	---
29	42	25	44	---	---	---	---	---	---	---	---	---
30	36	98	47	---	---	---	---	---	---	---	---	---
31	30	---	41	---	---	---	---	---	---	---	---	---
Total	1,318.5	733	1,403	---	---	---	---	---	---	---	---	---
Mean	42.5	24.4	45.3	---	---	---	---	---	---	---	---	---
Max	115	98	90	---	---	---	---	---	---	---	---	---
Min	1.9	12	19	---	---	---	---	---	---	---	---	---
Cfsm	3.38	1.94	3.59	---	---	---	---	---	---	---	---	---
In.	3.89	2.16	4.14	---	---	---	---	---	---	---	---	---

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1983 - 2006, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	14.2	20.4	32.2	27.6	27.6	40.8	44.1	29.4	21.8	12.0	11.1	11.1
Max	46.7	46.6	79.4	80.2	49.7	89.2	112	87.0	94.5	61.4	59.7	54.0
(WY)	(1990)	(2004)	(1997)	(1996)	(1996)	(1983)	(1983)	(1989)	(2003)	(1984)	(2000)	(1987)
Min	2.18	2.10	2.29	2.74	3.42	8.05	8.96	9.27	4.90	2.97	2.01	2.43
(WY)	(1999)	(2002)	(1999)	(2002)	(2002)	(2002)	(1985)	(2005)	(1999)	(1999)	(1999)	(2005)

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SUMMARY STATISTICS

	Calendar Year 2005		For October 2005 – January 5, 2006		Water Years 1983 - 2006	
Annual total	9,674.0					
Annual mean	26.5				24.2	
Highest annual mean					40.6	1984
Lowest annual mean					9.61	2002
Highest daily mean	346	Apr 3	115	Oct 9	512	Apr 6, 1984
Lowest daily mean	1.9	Sep 3	1.9	Oct 4, 5	0.54	Sep 5, 1999
Annual seven-day minimum	2.2	Sep 30	45	Oct 1	0.70	Aug 30, 1999
Maximum peak flow			129	Oct 9	572	Apr 5, 1984
Maximum peak stage			3.52	Oct 9	5.11	Apr 5, 1984
Instantaneous low flow			1.6	Oct 5	0.53	Aug 19, 1999
Annual runoff (cfs)	2.10				1.92	
Annual runoff (inches)	28.56				26.06	
10 percent exceeds	61				53	
50 percent exceeds	18				15	
90 percent exceeds	2.6				3.7	

