



Water-Data Report 2007

01480300 WEST BRANCH BRANDYWINE CREEK NEAR HONEY BROOK, PA

Lower Delaware Basin
Brandywine-Christina Subbasin

LOCATION.--Lat 40°04'22", long 75°51'40" referenced to North American Datum of 1927, Chester County, PA, Hydrologic Unit 02040205, on right bank 100 ft upstream from bridge on SR 4007 at Birdell, 0.4 mi downstream from Two Log Run, and 3.0 mi southeast of Honey Brook.

DRAINAGE AREA.--18.7 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.--June 1960 to current year.

REVISED RECORDS.--WDR PA-73-1: 1972(P). WDR PA-99-1: 1972, 1973, 1975, 1976, 1978, 1979, 1982, 1984, 1985, 1987-89, 1996, 1997 (P).

GAGE.--Water-stage recorder and crest-stage gage. Prior to July 1990, water-stage recorder at site 130 ft downstream on right bank at same datum. Datum of gage is 591.20 ft above National Geodetic Vertical Datum of 1929. Satellite and landline telemetry at station.

COOPERATION.--Station established and maintained by the U.S. Geological Survey in cooperation with the Pennsylvania Department of Environmental Protection and Chester County Water Resources Authority.

REMARKS.--Records fair, except those less than 10 ft³/s, and those for estimated daily discharges, which are poor. Some regulation at low flow by pumpage from the Northwestern Chester County Wastewater Treatment plant. Several measurements of water temperature were made during the year.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 500 ft³/s and (or) maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Nov 8	1500	798	6.57
Nov 16	2300	1,240	7.40
Jan 1	1115	1,130	7.34
Mar 2	0915	*1,790	*8.31
Apr 15	1315	809	6.76
Apr 27	0630	599	6.10

Minimum discharge, 5.2 ft³/s, Sept. 21, 27, 29, 30, gage height, 0.92 ft.

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DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007
DAILY MEAN VALUES

[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	12	14	21	340	16	115	20	26	13	11	9.9	8.3
2	12	24	20	46	17	751	22	25	13	12	9.5	8.1
3	12	17	17	29	16	63	20	22	16	11	9.1	7.7
4	10	14	17	25	14	33	27	21	27	16	8.3	8.2
5	10	13	16	32	e12	24	24	20	17	95	7.9	7.8
6	15	14	16	35	e12	e17	20	19	14	103	9.2	7.6
7	12	15	17	27	e11	e15	18	19	13	18	8.8	7.8
8	11	279	15	194	e12	e13	17	20	13	14	9.4	7.0
9	10	47	14	42	e13	e13	18	19	12	14	14	6.8
10	10	25	15	29	e12	18	17	19	11	16	23	7.3
11	10	20	15	24	e12	27	17	18	13	18	9.8	10
12	11	20	17	25	e11	21	45	17	12	13	8.7	9.1
13	9.6	24	18	29	e11	21	25	21	14	12	8.6	7.6
14	9.1	28	18	33	e13	22	20	17	14	11	8.2	7.3
15	8.9	22	17	31	e15	28	428	17	12	11	8.0	6.9
16	9.4	166	15	27	e15	69	429	22	12	11	8.0	6.5
17	19	167	14	22	e13	37	105	23	11	10	8.5	6.8
18	23	29	15	21	e11	28	46	18	11	14	7.6	6.7
19	13	24	14	22	e12	28	38	16	11	13	7.8	6.6
20	25	22	14	19	14	168	33	16	88	12	13	6.5
21	16	20	14	17	20	67	29	15	16	9.9	46	6.2
22	12	19	17	19	39	53	26	15	13	9.4	60	6.1
23	11	37	140	20	53	81	25	14	12	9.7	15	6.0
24	11	36	26	20	27	60	24	14	11	9.8	13	6.1
25	11	23	32	20	18	33	21	14	13	9.7	11	6.2
26	11	20	63	e18	19	28	22	13	13	9.3	19	6.0
27	13	20	27	17	48	27	252	17	12	11	11	6.0
28	128	21	21	19	64	24	49	34	23	15	10	6.2
29	26	21	20	18	---	21	35	16	23	25	9.6	5.5
30	17	20	18	17	---	21	29	15	13	14	9.3	5.7
31	16	---	17	16	---	21	---	14	---	11	8.9	---
Total	524.0	1,221	720	1,253	550	1,947	1,901	576	496	568.8	410.1	210.6
Mean	16.9	40.7	23.2	40.4	19.6	62.8	63.4	18.6	16.5	18.3	13.2	7.02
Max	128	279	140	340	64	751	429	34	88	103	60	10
Min	8.9	13	14	16	11	13	17	13	11	9.3	7.6	5.5
Cfsm	0.90	2.18	1.24	2.16	1.05	3.36	3.39	0.99	0.88	0.98	0.71	0.38
In.	1.04	2.43	1.43	2.49	1.09	3.87	3.78	1.15	0.99	1.13	0.82	0.42

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1960 - 2007, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	19.0	25.5	30.3	35.2	36.9	41.6	33.1	24.9	23.9	20.1	12.9	17.9
Max	83.1	58.6	107	136	85.1	110	83.8	74.6	96.6	106	41.8	63.1
(WY)	(2006)	(1973)	(1997)	(1996)	(1979)	(1994)	(1983)	(1989)	(1972)	(1984)	(2004)	(1960)
Min	5.74	6.59	7.65	7.03	6.55	14.1	11.0	8.84	6.46	3.79	2.34	3.62
(WY)	(1965)	(2002)	(1999)	(1981)	(2002)	(2002)	(2002)	(1963)	(1963)	(1963)	(2002)	(1964)

01480300 WEST BRANCH BRANDYWINE CREEK NEAR HONEY BROOK, PA—Continued

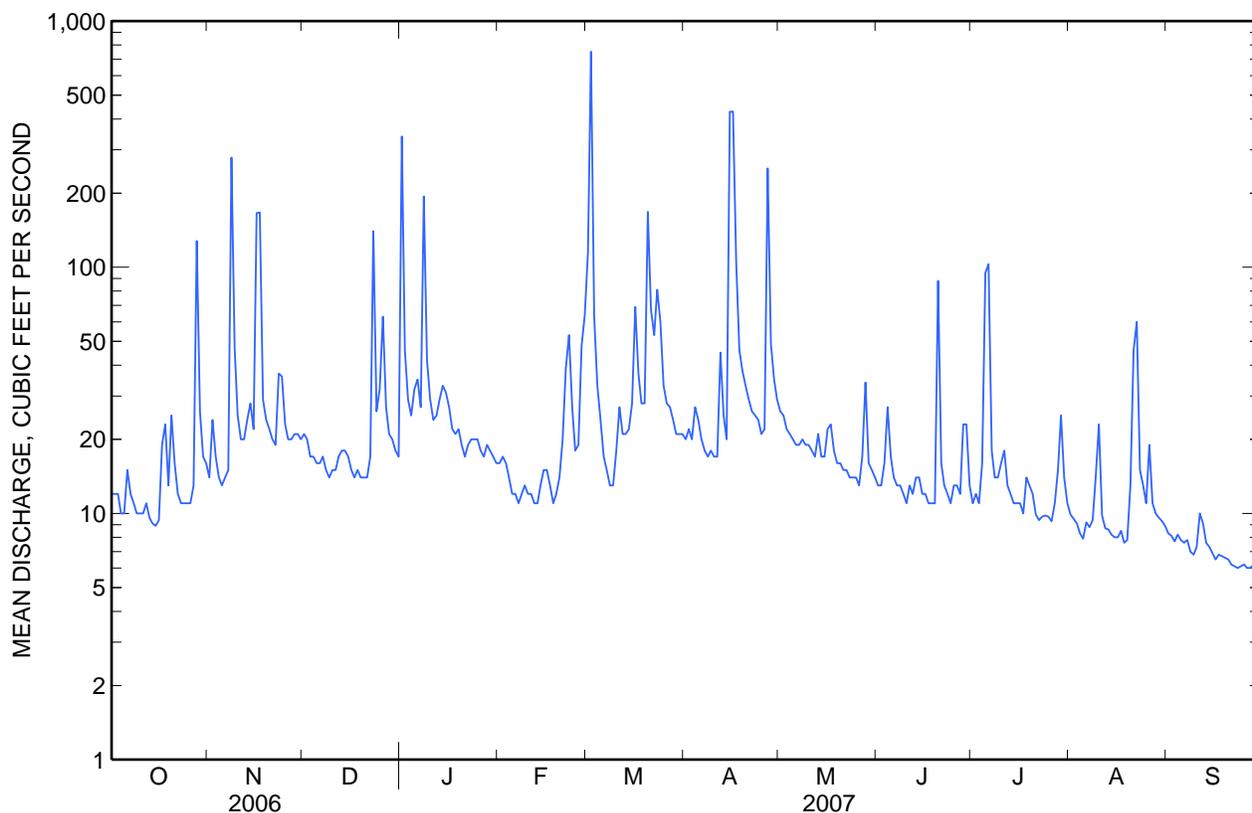
SUMMARY STATISTICS

	Calendar Year 2006		Water Year 2007		Water Years 1960 - 2007	
Annual total	9,361.2		10,377.5			
Annual mean	25.6		28.4		26.7	
Highest annual mean					46.3	1984
Lowest annual mean					9.24	2002
Highest daily mean	409	Jun 27	751	Mar 2	1,620	Oct 8, 2005
Lowest daily mean	5.8	Aug 18	5.5	Sep 29	1.0	Aug 21, 2002
Annual seven-day minimum	5.9	Aug 17	6.0	Sep 24	1.2	Aug 16, 2002
Maximum peak flow			^a 1,790	Mar 2	^a 3,800	Jan 19, 1996
Maximum peak stage			8.31 Mar 2		11.62 Jan 19, 1996	
Instantaneous low flow			5.2 Sep 21 ^b		0.83 Aug 14, 2002 ^c	
Annual runoff (cfsm)	1.37		1.52		1.43	
Annual runoff (inches)	18.62		20.64		19.37	
10 percent exceeds	36		38		41	
50 percent exceeds	17		16		15	
90 percent exceeds	9.0		8.6		6.8	

^a From rating curve extended above 1,000 ft³/s on basis of runoff comparison with nearby stations.

^b Also Sep 27, 29, 30.

^c Also Aug 19, 20, 2002.



01480300 WEST BRANCH BRANDYWINE CREEK NEAR HONEY BROOK, PA—Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water year 1965 to current year.

PERIOD OF DAILY RECORD.--

TURBIDITY: November 2006 to current year.

REMARKS.--Turbidity record poor. Interruptions in the record due to malfunction of the equipment. Water-quality samples were collected as part of the Chester County Biological Monitoring project.

TURBIDITY, WATER, UNFILT, NEAR IR LED LIGHT, 780-900 NM, DETECT ANG. 90 DEG, FORMAZIN NEPHELOMETRIC UNITS
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
	October			November			December			January		
1	---	---	---	---	---	---	26	3.0	5.7	---	---	---
2	---	---	---	---	---	---	39	7.0	20	---	---	---
3	---	---	---	---	---	---	8.0	5.0	6.0	---	---	---
4	---	---	---	---	---	---	6.0	4.0	4.8	9.0	7.0	7.8
5	---	---	---	---	---	---	7.0	4.0	5.3	18	7.0	11
6	---	---	---	---	---	---	7.0	4.0	4.6	17	13	15
7	---	---	---	---	---	---	6.0	4.0	4.6	170	10	22
8	---	---	---	440	3.0	110	11	4.0	5.5	---	---	---
9	---	---	---	53	12	23	6.0	4.0	4.7	32	8.0	16
10	---	---	---	14	6.0	9.0	7.0	4.0	4.4	12	6.0	8.1
11	---	---	---	9.0	5.0	7.5	6.0	4.0	4.9	7.0	5.0	5.9
12	---	---	---	9.0	6.0	7.4	8.0	5.0	5.5	8.0	5.0	6.2
13	---	---	---	15	6.0	8.2	8.0	3.0	5.0	9.0	5.0	6.4
14	---	---	---	20	9.0	12	7.0	3.0	4.8	11	7.0	8.1
15	---	---	---	17	10	12	6.0	3.0	4.6	9.0	5.0	7.1
16	---	---	---	620	12	130	6.0	3.0	4.3	8.0	5.0	5.9
17	---	---	---	370	20	84	8.0	4.0	5.0	8.0	5.0	5.2
18	---	---	---	20	10	13	6.0	3.0	4.5	6.0	4.0	5.1
19	---	---	---	15	8.0	10	6.0	3.0	4.5	7.0	5.0	5.6
20	---	---	---	12	8.0	9.6	5.0	3.0	4.1	8.0	4.0	5.1
21	---	---	---	26	10	13	5.0	3.0	4.1	27	5.0	7.4
22	---	---	---	27	10	16	36	3.0	7.0	6.0	4.0	4.9
23	---	---	---	120	10	47	260	21	81	7.0	5.0	5.5
24	---	---	---	98	44	60	21	7.0	11	9.0	5.0	5.8
25	---	---	---	55	17	25	55	5.0	15	7.0	5.0	5.5
26	---	---	---	19	5.0	9.8	52	12	27	24	5.0	6.5
27	---	---	---	11	2.0	5.2	12	7.0	8.8	6.0	5.0	5.0
28	---	---	---	6.0	2.0	3.7	8.0	6.0	6.9	7.0	5.0	5.7
29	---	---	---	7.0	3.0	4.2	7.0	5.0	6.2	7.0	6.0	6.2
30	---	---	---	7.0	3.0	4.4	8.0	5.0	5.9	---	---	---
31	---	---	---	---	---	---	9.0	5.0	5.9	15	5.0	7.4
Month	---	---	---	---	---	---	260	3.0	9.4	---	---	---

01480300 WEST BRANCH BRANDYWINE CREEK NEAR HONEY BROOK, PA—Continued

TURBIDITY, WATER, UNFILT, NEAR IR LED LIGHT, 780-900 NM, DETECT ANG. 90 DEG, FORMAZIN NEPHELOMETRIC UNITS
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
	February			March			April			May		
1	32	6.0	10	---	---	---	---	---	---	11	6.0	8.5
2	8.0	5.0	5.7	---	---	---	---	---	---	12	7.0	9.4
3	29	5.0	7.4	---	---	---	---	---	---	12	6.0	9.1
4	21	0.0	8.1	---	---	---	---	---	---	12	6.0	9.4
5	31	0.0	11	---	---	---	---	---	---	14	7.0	10
6	19	4.0	7.7	---	---	---	---	---	---	17	7.0	11
7	22	10	13	16	7.0	10	---	---	---	17	1.0	9.0
8	58	5.0	16	13	6.0	8.8	---	---	---	13	3.0	6.7
9	11	7.0	9.2	14	6.0	9.0	---	---	---	10	4.0	7.1
10	15	9.0	11	25	7.0	14	8.0	3.0	4.3	12	5.0	8.4
11	---	---	---	22	13	18	---	---	---	12	7.0	9.1
12	---	---	---	19	10	14	55	7.0	28	20	6.0	10
13	18	16	17	12	8.0	10	16	5.0	7.6	20	7.0	12
14	20	5.0	13	15	9.0	11	8.0	4.0	5.6	15	6.0	10
15	11	5.0	6.3	37	14	21	290	8.0	130	15	6.0	10
16	22	6.0	15	---	---	---	120	44	75	59	8.0	19
17	23	20	21	---	---	---	---	---	---	34	12	20
18	20	11	16	---	---	---	---	---	---	16	7.0	10
19	18	5.0	9.7	---	---	---	---	---	---	16	6.0	9.9
20	9.0	6.0	7.5	---	---	---	---	---	---	16	7.0	11
21	14	6.0	8.8	---	---	---	---	---	---	18	6.0	11
22	71	10	25	---	---	---	---	---	---	17	7.0	12
23	54	22	31	---	---	---	---	---	---	18	7.0	12
24	26	16	20	---	---	---	---	---	---	23	7.0	13
25	26	7.0	11	---	---	---	---	---	---	21	9.0	14
26	16	7.0	10	---	---	---	---	---	---	27	10	17
27	140	9.0	41	---	---	---	610	25	140	340	13	37
28	---	---	---	---	---	---	26	8.0	14	870	39	200
29	---	---	---	---	---	---	20	2.0	6.8	48	13	24
30	---	---	---	---	---	---	20	4.0	9.6	25	13	20
31	---	---	---	---	---	---	---	---	---	32	12	19
Month	---	---	---	---	---	---	---	---	---	870	1.0	19

01480300 WEST BRANCH BRANDYWINE CREEK NEAR HONEY BROOK, PA—Continued

TURBIDITY, WATER, UNFILT, NEAR IR LED LIGHT, 780-900 NM, DETECT ANG. 90 DEG, FORMAZIN NEPHELOMETRIC UNITS
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
	June			July			August			September		
1	28	11	18	36	21	27	---	---	---	---	---	---
2	29	13	21	41	3.0	17	32	12	19	---	---	---
3	75	13	29	15	4.0	8.7	34	19	26	---	---	---
4	73	30	41	210	6.0	25	---	---	---	---	---	---
5	40	15	24	450	49	220	---	---	---	---	---	---
6	---	---	---	200	20	58	---	---	---	19	4.0	11
7	---	---	---	39	11	19	18	5.0	12	19	4.0	11
8	22	6.0	12	45	16	27	22	7.0	14	---	---	---
9	18	5.0	11	---	---	---	140	10	35	---	---	---
10	19	7.0	13	---	---	---	100	16	44	---	---	---
11	26	8.0	15	---	---	---	28	8.0	17	---	---	---
12	29	5.0	15	43	8.0	18	24	10	16	---	---	---
13	46	7.0	16	44	9.0	18	---	---	---	---	---	---
14	52	18	32	26	0.0	15	---	---	---	14	4.0	7.8
15	39	8.0	21	---	---	---	---	---	---	17	5.0	8.7
16	20	6.0	11	---	---	---	---	---	---	20	3.0	8.2
17	26	10	15	---	---	---	---	---	---	18	4.0	8.5
18	64	8.0	24	---	---	---	---	---	---	15	4.0	8.6
19	30	5.0	14	---	---	---	---	---	---	16	5.0	10
20	860	30	220	---	---	---	---	---	---	15	6.0	10
21	36	13	21	---	---	---	---	---	---	16	8.0	12
22	22	10	15	---	---	---	---	---	---	---	---	---
23	21	11	16	---	---	---	---	---	---	---	---	---
24	24	12	17	15	4.0	8.4	22	8.0	13	20	7.0	12
25	52	17	28	18	6.0	11	---	---	---	23	5.0	11
26	39	19	25	22	2.0	12	---	---	---	15	3.2	8.9
27	30	11	22	---	---	---	---	---	---	28	2.4	11
28	120	30	66	---	---	---	12	3.0	7.4	35	2.0	11
29	80	35	54	---	---	---	14	5.0	8.7	22	2.0	12
30	42	23	32	---	---	---	16	6.0	9.6	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---
Month	---	---	---	---	---	---	---	---	---	---	---	---

01480300 WEST BRANCH BRANDYWINE CREEK NEAR HONEY BROOK, PA—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007

Part 1 of 2

[Remark codes: <, less than.]

Date	Time	Agency ana- lyzing sample, code (00028)	Instan- taneous dis- charge, cfs (00061)	Dis- solved oxygen, mg/L (00300)	pH,	pH,	Specif.	Specif-	Temper- ature, deg C (00010)	Calcium water, fltrd, mg/L (00915)	Magnes- ium, water, fltrd, mg/L (00925)	Potas- sium, water, fltrd, mg/L (00935)	Sodium, water, fltrd, mg/L (00930)
					water, unfltrd field, std units (00400)	water, unfltrd lab, std units (00403)	conduc- tance, wat unf lab, µS/cm 25 degC (90095)	conduc- tance, wat unf lab, µS/cm 25 degC (00095)					
Oct 04...	1230	80020	11	9.0	7.4	7.5	314	275	17.4	30.4	10.9	4.35	14.4

WATER-QUALITY DATA
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007

Part 2 of 2

[Remark codes: <, less than.]

Date	ANC, wat unf fixed end pt, lab, mg/L as CaCO3 (90410)	ANC, wat unf infl pt titr., mg/L as CaCO3 (00419)	Chlor- ide, water, fltrd, mg/L (00940)	Fluor- ide, water, fltrd, mg/L (00950)	Silica, water, fltrd, mg/L (00955)	Sulfate water, fltrd, mg/L (00945)	Ammonia water, fltrd, mg/L as N (00608)	Nitrate + nitrite water fltrd, mg/L as N (00631)	Nitrite water, fltrd, mg/L as N (00613)	Ortho- phos- phate, water, fltrd, mg/L as P (00671)	Boron, water, fltrd, µg/L (01020)	Iron, water, fltrd, µg/L (01046)
	Oct 04...	69	68	25.2	<.10	15.7	25.1	.025	6.08	.021	.092	62

01480300 WEST BRANCH BRANDYWINE CREEK NEAR HONEY BROOK, PA—Continued

CLIMATOLOGICAL RECORDS

COOPERATION.--Station established and maintained by the U.S. Geological Survey in cooperation with the Pennsylvania Department of Environmental Protection and Chester County Water Resources Authority.

PERIOD OF RECORD.--October 2005 to current year.

INSTRUMENTATION.--Precipitation gage interfaced with data collection platform.

PRECIPITATION, TOTAL, INCHES
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007
DAILY SUM VALUES

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	0.05	0.00	0.07	1.47	0.00	0.17	0.01	0.01	0.12	0.00	0.00	0.00
2	0.00	0.39	0.00	0.00	0.07	0.88	0.07	0.00	0.00	0.00	0.00	0.00
3	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.58	0.00	0.00	0.00
4	0.00	0.00	0.00	0.00	0.00	0.00	0.28	0.00	0.14	1.06	0.00	0.00
5	0.00	0.00	0.00	0.16	0.00	0.00	0.00	0.00	0.00	1.57	0.03	0.00
6	0.27	0.00	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.01	0.02	0.00
7	0.00	0.24	0.00	0.49	0.00	0.07	0.00	0.00	0.00	0.00	0.00	0.00
8	0.00	1.14	0.00	0.30	0.00	0.00	0.00	0.00	0.00	0.00	0.09	0.00
9	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.95	0.00
10	0.00	0.00	0.00	0.00	0.00	0.10	0.00	0.00	0.00	0.00	0.01	0.00
11	0.02	0.00	0.00	0.00	0.00	0.01	0.08	0.00	0.00	0.01	0.00	0.48
12	0.01	0.08	0.00	0.00	0.00	0.00	0.52	0.34	0.00	0.00	0.00	0.00
13	0.00	0.10	0.08	0.15	0.15	0.00	0.00	0.02	0.01	0.00	0.00	0.00
14	0.00	0.03	0.00	0.08	1.30	0.00	0.04	0.00	0.00	0.00	0.00	0.00
15	---	0.00	0.00	0.00	0.00	0.25	2.02	0.00	0.00	0.00	0.00	0.02
16	---	0.99	0.00	0.00	0.00	1.61	1.25	0.44	0.00	0.00	0.00	0.00
17	---	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.33	0.00
18	---	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.69	0.00	0.00
19	---	0.00	0.00	0.01	0.00	0.01	0.00	0.00	0.28	0.11	0.18	0.00
20	---	0.00	0.00	0.00	0.03	0.00	0.00	0.00	1.32	0.00	0.68	0.00
21	---	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.86	0.00
22	---	0.09	0.56	0.00	0.04	0.14	0.00	0.00	0.00	0.00	0.03	0.01
23	---	0.29	0.43	0.00	0.00	0.23	0.00	0.00	0.00	0.00	0.00	0.00
24	---	0.00	0.00	0.00	0.00	0.07	0.00	0.00	0.00	0.00	0.00	0.00
25	---	0.00	0.33	0.03	0.26	0.00	0.04	0.00	0.21	0.01	0.00	0.00
26	---	0.00	0.02	0.00	0.02	0.00	0.21	0.18	0.00	0.00	0.06	0.00
27	---	0.00	0.00	0.00	0.00	0.00	1.83	0.83	0.42	0.66	0.00	0.00
28	---	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.19	0.01	0.00	0.00
29	---	0.00	0.00	0.00	---	0.00	0.00	0.00	0.02	0.51	0.00	0.00
30	---	0.00	0.00	0.00	---	0.00	0.00	0.00	0.00	0.00	0.00	0.00
31	0.00	---	0.00	0.00	---	0.00	---	0.00	---	0.00	0.00	---
Total	---	3.35	1.49	2.74	1.87	3.55	6.37	1.82	3.29	4.64	4.24	0.51

01480300 WEST BRANCH BRANDYWINE CREEK NEAR HONEY BROOK, PA—Continued

ECOLOGICAL RECORDS

COOPERATION.--Station established and maintained by the U.S. Geological Survey in cooperation with the Pennsylvania Department of Environmental Protection and Chester County Water Resources Authority.

PERIOD OF RECORD.--April 2002 to current year.

REMARKS.--Samples were collected using a Hess sampler with a mesh size of 500 mm. Three samples were collected and composited.

BIOLOGICAL DATA-BENTHIC MACROINVERTEBRATES

Date	10/04/06
Benthic Macroinvertebrate	Count
Platyhelminthes	•
Turbellaria (FLATWORMS)	•
Tricladida	•
Planariidae	• 10
Nematoda (NEMATODES)	• 14
Nemertea (PROBOSCIS WORMS)	•
Enopla	•
Hoplonemertea	•
Tetrastemmatidae	•
<i>Prostoma</i>	• 3
Mollusca	•
Gastropoda (SNAILS)	•
Basommatophora	•
Ancyliidae	•
<i>Ferrissia</i>	• 16
Bivalvia (CLAMS)	•
Veneroida	•
Corbiculidae	•
<i>Corbicula fluminea</i>	• 9
Annelida	•
Oligochaeta (AQUATIC EARTHWORMS)	•
Lumbriculida	•
Lumbriculidae	• 3
Tubificida	•
Tubificidae	• 47
Arthropoda	•
Acariformes	•
Hydrachnidia (WATER MITES)	• 42
Insecta	•
Ephemeroptera (MAYFLIES)	•
Baetidae	•
<i>Acentrella</i>	• 2
<i>Baetis</i>	• 173
Caenidae	•
<i>Caenis</i>	• 1
Ephemerellidae	•

01480300 WEST BRANCH BRANDYWINE CREEK NEAR HONEY BROOK, PA—Continued

Date	10/04/06
Benthic Macroinvertebrate	Count
<i>Eurylophella</i>	• 1
<i>Serratella</i>	• 20
Ephemeridae	•
<i>Ephemera</i>	• 1
Heptageniidae	•
<i>Maccaffertium</i>	• 160
Isonychiidae	•
<i>Isonychia</i>	• 13
Odonata (DRAGONFLIES AND DAMSELFLIES)	•
Coenagrionidae	•
<i>Argia</i>	• 5
Megaloptera	•
Corydalidae (FISHFLIES AND DOBSONFLIES)	•
<i>Corydalus</i>	• 4
Trichoptera (CADDISFLIES)	•
Hydropsychidae	•
<i>Cheumatopsyche</i>	• 729
<i>Hydropsyche</i>	• 333
Hydroptilidae	•
<i>Hydroptila</i>	• 59
<i>Leucotrichia</i>	• 8
Leptoceridae	•
<i>Oecetis</i>	• 1
Philopotamidae	•
<i>Chimarra</i>	• 31
Coleoptera (BEETLES)	•
Elmidae (RIFLE BEETLES)	•
<i>Ancyronyx</i>	• 30
<i>Macronychus</i>	• 18
<i>Optioservus</i>	• 186
<i>Oulimnius</i>	• 15
<i>Stenelmis</i>	• 678
Psephenidae (WATER PENNIES)	•
<i>Psephenus</i>	• 1
Diptera (TRUE FLIES)	•
Chironomidae (MIDGES)	• 446
Empididae (DANCE FLIES)	•
<i>Hemerodromia</i>	• 24
Simuliidae (BLACK FLIES)	•
<i>Simulium</i>	• 24
Tipulidae (CRANE FLIES)	•
<i>Antocha</i>	• 59
<i>Dicranota</i>	• 2
<i>Hexatoma</i>	• 7

01480300 WEST BRANCH BRANDYWINE CREEK NEAR HONEY BROOK, PA—Continued

Date	10/04/06
Benthic Macroinvertebrate	Count
Total Organisms	3175