



Water-Data Report 2007

**01480617 WEST BRANCH BRANDYWINE CREEK AT MODENA, PA**

Lower Delaware Basin  
Brandywine-Christina Subbasin

LOCATION.--Lat 39°57'42", long 75°48'06" referenced to North American Datum of 1927, Chester County, PA, Hydrologic Unit 02040205, on left bank at bridge on SR 15068 at Modena, and 300 ft upstream from Dennis Run.

DRAINAGE AREA.—55.0 mi<sup>2</sup>.

**SURFACE-WATER RECORDS**

PERIOD OF RECORD.--January 1970 to current year.

REVISED RECORDS.--WDR PA-74-1: 1971-72(P), 1973. WDR PA-75-1: 1974(m).

GAGE.--Water-stage recorder and crest-stage gage. Elevation of gage is 262.52 ft above North American Vertical Datum of 1988. Satellite and landline telemetry at station.

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

REMARKS.--No estimated daily discharges. Records good. Slight regulation from Rock Run Reservoir 5.6 mi upstream, capacity, 982 acre-ft, and by Lukens Steel Company. Diversion from Rock Run Reservoir for municipal supply of city of Coatesville reenters creek upstream from gage.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 1,000 ft<sup>3</sup>/s and (or) maximum (\*):

Date	Time	Discharge (ft <sup>3</sup> /s)	Gage height (ft)
Nov 17	0500	1,170	5.72
Jan 1	1715	1,320	5.94
Mar 2	0830	2,930	7.86
Apr 15	1615	1,780	6.58
Apr 27	0500	*3,120	*8.04

Minimum discharge, 17 ft<sup>3</sup>/s, Sept. 27, 29, 30, gage height, 2.75 ft.

## 01480617 WEST BRANCH BRANDYWINE CREEK AT MODENA, PA—Continued

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

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	37	55	63	709	56	157	71	108	49	41	34	29
2	35	79	67	188	60	1,630	73	103	51	36	32	26
3	34	67	56	105	59	278	75	97	68	35	29	28
4	33	53	54	89	52	144	97	90	102	100	28	26
5	32	51	52	91	46	103	90	88	70	187	29	25
6	44	49	51	102	49	80	76	82	53	251	29	25
7	37	49	53	93	50	76	70	79	49	65	27	25
8	33	489	52	362	48	67	69	77	47	46	32	24
9	30	243	50	157	49	65	63	75	46	40	56	23
10	33	103	50	106	49	64	65	74	45	38	65	24
11	32	84	52	89	48	84	61	73	45	89	36	28
12	32	77	55	87	50	75	132	88	48	52	29	30
13	31	84	60	94	51	72	96	110	46	41	28	28
14	32	91	64	101	55	70	74	77	45	38	28	25
15	33	82	59	95	55	77	992	73	45	37	26	27
16	31	211	57	89	55	185	1,060	82	43	36	27	25
17	44	450	53	77	50	130	428	91	41	34	49	23
18	56	103	54	71	51	99	209	76	39	31	30	24
19	38	81	53	73	48	93	161	68	40	38	28	24
20	81	70	51	70	49	229	140	61	164	39	54	22
21	55	61	50	62	63	238	123	58	62	32	124	23
22	45	64	62	62	79	147	111	56	46	31	153	24
23	41	96	334	67	111	180	102	55	42	29	53	22
24	40	103	104	66	77	175	96	56	37	28	42	20
25	38	76	91	66	65	120	91	57	48	28	39	22
26	37	65	156	61	69	99	90	57	43	28	41	21
27	42	59	90	62	91	93	936	60	40	41	38	19
28	330	58	72	63	133	87	214	88	58	45	32	20
29	127	57	65	63	---	78	148	60	57	105	31	19
30	79	58	59	58	---	75	124	55	53	53	29	19
31	63	---	58	57	---	73	---	50	---	39	27	---
<b>Total</b>	1,655	3,268	2,247	3,535	1,718	5,143	6,137	2,324	1,622	1,733	1,305	720
<b>Mean</b>	53.4	109	72.5	114	61.4	166	205	75.0	54.1	55.9	42.1	24.0
<b>Max</b>	330	489	334	709	133	1,630	1,060	110	164	251	153	30
<b>Min</b>	30	49	50	57	46	64	61	50	37	28	26	19
<b>Cfsm</b>	0.97	1.98	1.32	2.07	1.12	3.02	3.72	1.36	0.98	1.02	0.77	0.44
<b>In.</b>	1.12	2.21	1.52	2.39	1.16	3.48	4.15	1.57	1.10	1.17	0.88	0.49

**STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1970 - 2007, BY WATER YEAR (WY)**

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
<b>Mean</b>	61.4	75.3	95.7	103	107	127	119	91.1	85.8	66.9	47.0	57.6
<b>Max</b>	200	157	306	330	235	308	241	213	302	236	123	186
<b>(WY)</b>	(2006)	(2004)	(1997)	(1979)	(1971)	(1994)	(1983)	(1989)	(1972)	(1984)	(1971)	(1979)
<b>Min</b>	20.0	17.8	21.5	20.1	30.2	43.0	34.7	41.5	28.4	15.4	11.8	20.6
<b>(WY)</b>	(2002)	(2002)	(1999)	(1981)	(2002)	(1985)	(2002)	(1999)	(1999)	(2002)	(2002)	(2002)

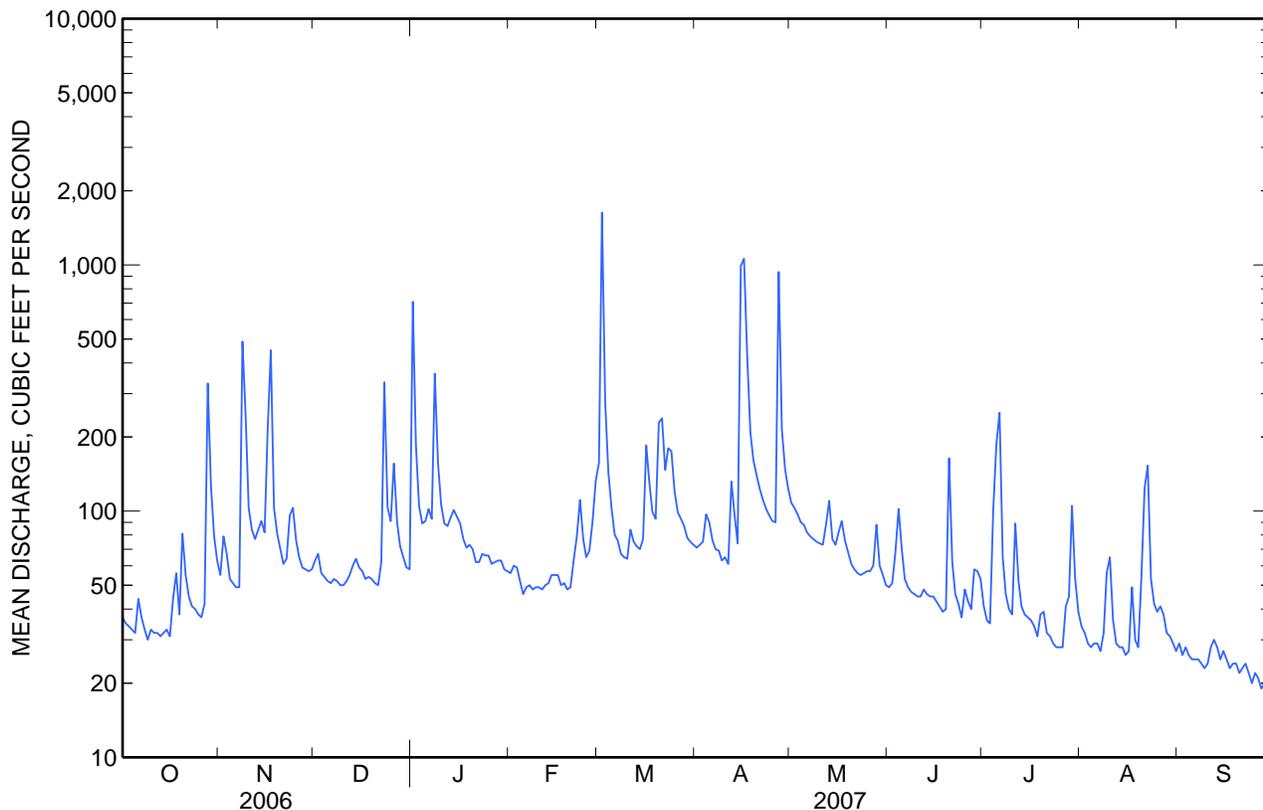
01480617 WEST BRANCH BRANDYWINE CREEK AT MODENA, PA—Continued

SUMMARY STATISTICS

	Calendar Year 2006		Water Year 2007		Water Years 1970 - 2007	
<b>Annual total</b>	28,780		31,407			
<b>Annual mean</b>	78.8		86.0		86.4	
<b>Highest annual mean</b>					130	1979
<b>Lowest annual mean</b>					29.7	2002
<b>Highest daily mean</b>	1,030	Jun 28	1,630	Mar 2	4,010	Jun 22, 1972
<b>Lowest daily mean</b>	20	Aug 22	19	Sep 27 <sup>a</sup>	7.4	Aug 23, 2002
<b>Annual seven-day minimum</b>	21	Aug 18	20	Sep 24	8.1	Aug 17, 2002
<b>Maximum peak flow</b>			3,120	Apr 27	<sup>b</sup> 9,600	Jun 29, 1973
<b>Maximum peak stage</b>			8.04	Apr 27	12.47	Jun 29, 1973
<b>Annual runoff (cfsm)</b>	1.43		1.56		1.57	
<b>Annual runoff (inches)</b>	19.47		21.24		21.34	
<b>10 percent exceeds</b>	122		131		148	
<b>50 percent exceeds</b>	55		58		57	
<b>90 percent exceeds</b>	30		28		25	

<sup>a</sup> Also Sep 29, 30.

<sup>b</sup> From rating curve extended above 7,800 ft<sup>3</sup>/s on basis of slope-area measurement at gage height 11.48 ft.



**01480617 WEST BRANCH BRANDYWINE CREEK AT MODENA, PA—Continued**

**WATER-QUALITY RECORDS**

PERIOD OF RECORD.--October 1969 to October 1978, August 1981 to current year.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: May 1971 to October 1977, August 1981 to current year.

pH: May 1971 to October 1977, August 1981 to current year.

WATER TEMPERATURES: May 1971 to October 1977, August 1981 to current year.

DISSOLVED OXYGEN: May 1971 to October 1977, August 1981 to current year.

TURBIDITY: October 2005 to current year.

INSTRUMENTATION.--Water-quality monitor May 1971 to October 1977, August 1981 to current year.

REMARKS.--Specific conductance record rated good except for periods Feb 28 to Mar 8, Mar 19 to Apr 2, 10-20, May 5, 11-15, 17, and July 10, 11, which are fair. pH record rated good except for periods Oct 23 to Dec 5, Feb 28 to Mar 8, Mar 19 to Apr 2, 10-20, May 11-15, 17, and July 10, 11, which are fair. Water temperature record rated good except for periods Nov 8-16, Mar 14-19, Apr 6-9, May 7-10, 16, 18-25, which are poor. Dissolved oxygen record rated fair except for periods Dec 1-5, Mar 19 to Apr 2, 10-20, May 11-15, 17, 20-23, June 27, 28, July 10, 11, 26-30, which are poor. Turbidity record rated poor. Data collection discontinued during winter months since 1981 water year. Other interruptions in the record were due to malfunctions of the equipment. Water-quality samples were collected as part of the Chester County Biological Monitoring project.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum, 858 microsiemens, Jan. 10, 1977; minimum, 72 microsiemens, Nov. 16, 1985.

pH: Maximum, 10.0, Dec. 21, 1971; minimum, 5.9, July 14, 1991.

WATER TEMPERATURE: Maximum, 33.5°C, July 19, 1977; minimum, 0.0°C, many days during winters.

DISSOLVED OXYGEN: Maximum, 19.5 mg/L, Sept. 2, 1990; minimum, 0.6 mg/L, Nov. 1, 3, 1974.

TURBIDITY: Maximum, 700 FNU, Nov 17, 2006; minimum, 0.0 FNU, many days.

## 01480617 WEST BRANCH BRANDYWINE CREEK AT MODENA, PA—Continued

**WATER-QUALITY DATA**  
**WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007**

Date	Time	Instantaneous discharge, cfs (00061)	Dissolved oxygen, mg/L (00300)	pH, water, unfltrd field, std units (00400)	Specific conductance, wat unf $\mu$ S/cm 25 degC (00095)	Temperature, water, deg C (00010)	Fecal coliform, M-FC 0.7u MF 100 mL (31625)
<b>Mar</b>							
13...	0750	69	12.5	7.7	329	7.1	530
28...	0645	80	10.0	7.6	318	13.5	160
<b>Apr</b>							
11...	0700	61	13.1	7.7	333	6.7	460
24...	0705	85	9.3	7.7	307	15.4	220
<b>May</b>							
03...	1010	98	11.7	8.1	256	13.6	500
15...	1000	74	11.3	7.9	300	14.5	1,000
22...	0655	57	8.5	7.5	310	15.3	350
<b>Jun</b>							
06...	0650	55	7.5	7.6	321	18.4	2,100
06...	0730	367	7.9	7.5	278	18.9	530
14...	1000	45	9.0	7.5	339	18.5	2,000
20...	0700	135	5.5	7.5	223	21.3	14,000
<b>Jul</b>							
10...	1330	38	10.1	8.1	347	24.7	1,100
16...	1155	40	9.6	8.0	366	22.0	1,100
26...	1030	32	9.2	7.8	392	21.2	790
<b>Aug</b>							
02...	0740	33	7.5	7.6	402	21.6	1,800
13...	0700	30	7.0	7.5	404	21.7	4,700
20...	1200	45	7.5	7.6	334	18.4	4,200
<b>Sep</b>							
12...	1300	35	9.2	7.8	378	20.8	530
17...	1045	25	10.2	7.8	395	15.1	1,800

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**WATER-QUALITY DATA**  
**WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007**

Part 1 of 3

[Remark codes: <, less than; E, estimated.]

Date	Time	Agency ana- lyzing sample, code (00028)	Instan- taneous dis- charge, cfs (00061)	Dis- solved oxygen, mg/L (00300)	pH, water, unfltrd field, std (00400)	pH, water, unfltrd lab, std (00403)	Specif. conduc- tance, wat un lab, µS/cm 25 degC (90095)	Specif- conduc- tance, wat un lab, µS/cm 25 degC (00095)	Temper- ature, water, 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)
Oct 03...	1100	80020	33	10.3	7.7	7.9	339	344	16.3	30.9	10.6	5.87	18.4

**WATER-QUALITY DATA**  
**WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007**

Part 2 of 3

[Remark codes: <, less than; E, estimated.]

Date	ANC, wat un fixed end pt, lab, mg/L as CaCO3 (90410)	ANC, wat un infl pt titr., field, 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)	Alum- inum, water, fltrd, µg/L (01106)	Arsenic water, fltrd, µg/L (01000)	Boron, water, fltrd, µg/L (01020)
Oct 03...	70	64	33.1	.24	11.6	25.9	E.016	4.90	.009	.110	35.0	.36	72

**WATER-QUALITY DATA**  
**WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007**

Part 3 of 3

[Remark codes: <, less than; E, estimated.]

Date	Cadmium water, fltrd, µg/L (01025)	Chrom- ium, water, fltrd, µg/L (01030)	Copper, water, fltrd, µg/L (01040)	Iron, water, fltrd, µg/L (01046)	Lead, water, fltrd, µg/L (01049)	Mangan- ese, water, fltrd, µg/L (01056)	Mercury water, fltrd, µg/L (71890)	Molyb- denum, water, fltrd, µg/L (01060)	Nickel, water, fltrd, µg/L (01065)	Zinc, water, fltrd, µg/L (01090)
Oct 03...	.04	2.2	2.3	53	.50	25.0	<.010	13.6	1.7	12

## 01480617 WEST BRANCH BRANDYWINE CREEK AT MODENA, PA—Continued

**SPECIFIC CONDUCTANCE, WATER, UNFILTERED, MICROSIEMENS PER CENTIMETER AT 25 DEGREES CELSIUS**  
**WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007**

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
	October			November			December			January		
<b>1</b>	371	337	358	357	322	341	347	306	336	---	---	---
<b>2</b>	392	346	370	360	260	310	337	310	321	---	---	---
<b>3</b>	380	344	368	349	287	318	350	331	340	---	---	---
<b>4</b>	396	360	383	375	336	356	348	324	338	---	---	---
<b>5</b>	403	376	391	381	335	357	---	---	---	---	---	---
<b>6</b>	403	310	355	378	343	362	---	---	---	---	---	---
<b>7</b>	386	335	358	373	344	361	---	---	---	---	---	---
<b>8</b>	402	368	386	371	157	231	---	---	---	---	---	---
<b>9</b>	402	366	388	258	168	213	---	---	---	---	---	---
<b>10</b>	396	347	375	304	257	277	---	---	---	---	---	---
<b>11</b>	399	361	384	321	277	302	---	---	---	---	---	---
<b>12</b>	417	382	400	332	305	321	---	---	---	---	---	---
<b>13</b>	412	372	397	323	308	316	---	---	---	---	---	---
<b>14</b>	420	374	397	322	300	310	---	---	---	---	---	---
<b>15</b>	423	361	396	328	315	323	---	---	---	---	---	---
<b>16</b>	423	367	392	344	159	289	---	---	---	---	---	---
<b>17</b>	421	240	361	230	154	190	---	---	---	---	---	---
<b>18</b>	343	274	311	286	230	259	---	---	---	---	---	---
<b>19</b>	392	332	366	306	282	294	---	---	---	---	---	---
<b>20</b>	371	192	278	320	293	306	---	---	---	---	---	---
<b>21</b>	351	297	321	323	302	313	---	---	---	---	---	---
<b>22</b>	380	332	357	338	304	326	---	---	---	---	---	---
<b>23</b>	385	352	375	307	263	288	---	---	---	---	---	---
<b>24</b>	394	359	377	343	269	296	---	---	---	---	---	---
<b>25</b>	408	373	391	316	293	306	---	---	---	---	---	---
<b>26</b>	399	366	385	331	305	318	---	---	---	---	---	---
<b>27</b>	393	360	381	338	307	323	---	---	---	---	---	---
<b>28</b>	370	180	229	339	321	332	---	---	---	---	---	---
<b>29</b>	298	221	263	348	330	341	---	---	---	---	---	---
<b>30</b>	324	282	305	348	333	342	---	---	---	---	---	---
<b>31</b>	340	308	326	---	---	---	---	---	---	---	---	---
<b>Month</b>	423	180	359	381	154	307	350	306	334	---	---	---

## 01480617 WEST BRANCH BRANDYWINE CREEK AT MODENA, PA—Continued

**SPECIFIC CONDUCTANCE, WATER, UNFILTERED, MICROSIEMENS PER CENTIMETER AT 25 DEGREES CELSIUS**  
**WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007**

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
	<b>February</b>			<b>March</b>			<b>April</b>			<b>May</b>		
<b>1</b>	---	---	---	391	318	353	346	325	336	---	---	---
<b>2</b>	---	---	---	351	149	204	346	316	327	---	---	---
<b>3</b>	---	---	---	268	181	235	337	322	329	269	207	230
<b>4</b>	---	---	---	299	254	277	349	299	330	296	233	270
<b>5</b>	---	---	---	319	286	299	332	303	316	303	289	297
<b>6</b>	---	---	---	338	304	321	335	318	327	---	---	---
<b>7</b>	---	---	---	563	312	389	346	329	339	301	260	282
<b>8</b>	---	---	---	436	330	380	345	327	337	311	292	299
<b>9</b>	---	---	---	373	338	350	344	325	336	316	303	308
<b>10</b>	---	---	---	372	347	360	360	320	335	314	301	306
<b>11</b>	---	---	---	551	332	370	360	330	340	319	307	314
<b>12</b>	---	---	---	356	315	333	344	248	289	318	230	303
<b>13</b>	---	---	---	357	328	339	309	277	291	311	247	292
<b>14</b>	---	---	---	347	327	338	318	294	306	323	305	314
<b>15</b>	---	---	---	370	322	335	318	147	196	330	308	318
<b>16</b>	---	---	---	553	342	399	184	157	173	331	288	316
<b>17</b>	---	---	---	824	396	532	257	178	220	310	268	284
<b>18</b>	---	---	---	569	437	484	285	255	269	314	292	304
<b>19</b>	---	---	---	562	430	471	306	283	294	323	300	312
<b>20</b>	---	---	---	491	295	401	316	296	306	322	306	316
<b>21</b>	---	---	---	313	239	278	320	307	313	328	304	317
<b>22</b>	---	---	---	341	288	308	323	308	316	335	308	321
<b>23</b>	---	---	---	320	281	296	324	313	317	340	316	329
<b>24</b>	---	---	---	316	276	302	323	305	313	342	313	328
<b>25</b>	---	---	---	327	311	319	330	316	322	343	318	333
<b>26</b>	---	---	---	331	316	322	325	314	318	337	295	326
<b>27</b>	---	---	---	333	318	324	318	124	173	341	297	323
<b>28</b>	---	---	---	339	318	328	212	178	194	313	265	294
<b>29</b>	---	---	---	346	329	337	271	212	241	329	297	314
<b>30</b>	---	---	---	346	331	337	316	271	282	339	308	324
<b>31</b>	---	---	---	336	324	331	---	---	---	352	320	339
<b>Month</b>	---	---	---	824	149	344	360	124	293	352	207	308

## 01480617 WEST BRANCH BRANDYWINE CREEK AT MODENA, PA—Continued

**SPECIFIC CONDUCTANCE, WATER, UNFILTERED, MICROSIEMENS PER CENTIMETER AT 25 DEGREES CELSIUS**  
**WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007**

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
	June			July			August			September		
<b>1</b>	350	326	341	375	325	348	418	383	398	425	383	406
<b>2</b>	349	318	334	370	342	362	417	392	407	498	401	438
<b>3</b>	346	171	315	373	339	361	433	409	422	476	444	460
<b>4</b>	294	195	266	376	123	341	447	407	423	470	431	450
<b>5</b>	326	287	306	286	202	243	431	401	419	475	444	462
<b>6</b>	346	321	334	254	210	225	433	398	418	473	432	453
<b>7</b>	364	335	351	308	254	283	425	403	415	446	423	437
<b>8</b>	365	326	348	340	303	320	431	342	395	481	430	453
<b>9</b>	365	336	353	360	323	341	417	195	360	463	415	438
<b>10</b>	367	345	355	362	334	351	356	220	296	456	411	438
<b>11</b>	361	330	353	---	---	---	412	356	383	474	401	437
<b>12</b>	365	299	345	---	---	---	413	383	399	434	375	403
<b>13</b>	363	336	352	367	332	352	420	380	401	432	378	407
<b>14</b>	366	338	350	373	342	361	433	382	408	458	430	446
<b>15</b>	366	332	350	387	352	374	438	404	422	452	392	417
<b>16</b>	365	337	354	389	364	379	412	386	403	438	392	416
<b>17</b>	366	325	353	---	---	---	431	190	369	436	393	421
<b>18</b>	373	326	356	---	---	---	393	305	362	435	397	418
<b>19</b>	377	309	360	398	340	365	417	382	399	442	400	422
<b>20</b>	362	196	239	364	323	344	388	269	336	429	388	413
<b>21</b>	310	246	277	382	345	364	297	183	269	425	390	412
<b>22</b>	339	297	318	389	361	378	306	169	254	435	396	418
<b>23</b>	360	318	340	412	361	385	379	306	338	437	402	425
<b>24</b>	374	338	357	430	386	406	386	371	380	438	390	419
<b>25</b>	372	234	332	424	379	400	402	365	383	453	414	437
<b>26</b>	362	319	337	435	390	410	409	365	392	446	412	430
<b>27</b>	366	334	351	441	185	392	404	364	376	459	425	441
<b>28</b>	364	298	316	361	225	332	414	376	398	456	423	442
<b>29</b>	328	298	312	378	130	293	425	390	407	469	436	454
<b>30</b>	343	254	316	380	297	333	418	384	402	475	430	454
<b>31</b>	---	---	---	409	362	381	422	384	406	---	---	---
<b>Month</b>	377	171	332	441	123	349	447	169	382	498	375	432

01480617 WEST BRANCH BRANDYWINE CREEK AT MODENA, PA—Continued

PH, WATER, UNFILTERED, FIELD, STANDARD UNITS  
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007

Day	Max	Min	Median	Max	Min	Median	Max	Min	Median	Max	Min	Median
	October			November			December			January		
1	8.2	7.5	7.7	7.8	7.5	7.5	7.8	7.5	7.6	---	---	---
2	8.2	7.5	7.7	7.7	7.4	7.5	7.9	7.4	7.6	---	---	---
3	8.5	7.5	7.8	7.8	7.5	7.6	7.9	7.5	7.6	---	---	---
4	8.6	7.5	7.9	7.8	7.5	7.6	8.0	7.5	7.6	---	---	---
5	8.4	7.4	7.9	7.8	7.4	7.5	---	---	---	---	---	---
6	7.9	7.5	7.6	7.7	7.4	7.5	---	---	---	---	---	---
7	8.3	7.5	7.8	7.7	7.4	7.5	---	---	---	---	---	---
8	8.2	7.5	7.7	7.5	7.1	7.4	---	---	---	---	---	---
9	8.3	7.4	7.7	7.3	7.1	7.2	---	---	---	---	---	---
10	8.4	7.4	7.7	7.4	7.2	7.3	---	---	---	---	---	---
11	8.1	7.4	7.7	7.5	7.3	7.3	---	---	---	---	---	---
12	8.1	7.4	7.6	7.4	7.3	7.3	---	---	---	---	---	---
13	8.0	7.4	7.7	7.5	7.3	7.4	---	---	---	---	---	---
14	8.1	7.5	7.7	7.6	7.4	7.5	---	---	---	---	---	---
15	8.2	7.5	7.7	7.7	7.4	7.5	---	---	---	---	---	---
16	8.2	7.5	7.7	8.2	7.5	7.7	---	---	---	---	---	---
17	7.8	7.4	7.6	7.7	7.4	7.4	---	---	---	---	---	---
18	7.9	7.4	7.5	7.6	7.4	7.5	---	---	---	---	---	---
19	7.8	7.4	7.5	7.7	7.5	7.6	---	---	---	---	---	---
20	7.7	7.4	7.5	7.7	7.6	7.6	---	---	---	---	---	---
21	7.8	7.4	7.5	7.7	7.5	7.6	---	---	---	---	---	---
22	7.8	7.4	7.6	7.7	7.5	7.6	---	---	---	---	---	---
23	8.0	7.4	7.6	7.6	7.5	7.6	---	---	---	---	---	---
24	8.1	7.5	7.7	7.7	7.5	7.6	---	---	---	---	---	---
25	8.1	7.5	7.7	7.6	7.5	7.5	---	---	---	---	---	---
26	8.1	7.5	7.8	7.7	7.4	7.5	---	---	---	---	---	---
27	8.0	7.6	7.7	7.7	7.4	7.5	---	---	---	---	---	---
28	7.6	7.3	7.4	7.8	7.4	7.6	---	---	---	---	---	---
29	7.5	7.3	7.4	7.8	7.5	7.6	---	---	---	---	---	---
30	7.6	7.4	7.5	8.0	7.5	7.6	---	---	---	---	---	---
31	7.8	7.4	7.5	---	---	---	---	---	---	---	---	---
<b>Max</b>	8.6	7.6	7.9	8.2	7.6	7.7	8.0	7.5	7.6	---	---	---
<b>Min</b>	7.5	7.3	7.4	7.3	7.1	7.2	7.8	7.4	7.6	---	---	---

## 01480617 WEST BRANCH BRANDYWINE CREEK AT MODENA, PA—Continued

PH, WATER, UNFILTERED, FIELD, STANDARD UNITS  
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007

Day	Max	Min	Median	Max	Min	Median	Max	Min	Median	Max	Min	Median
	<b>February</b>			<b>March</b>			<b>April</b>			<b>May</b>		
1	---	---	---	8.1	7.6	7.7	8.5	7.6	7.8	8.8	7.8	8.0
2	---	---	---	7.7	7.4	7.5	9.2	7.6	7.9	8.9	7.8	8.1
3	---	---	---	7.5	7.4	7.5	9.3	7.6	8.1	8.9	7.7	8.1
4	---	---	---	7.5	7.5	7.5	8.1	7.7	7.8	9.1	7.8	8.1
5	---	---	---	7.5	7.5	7.5	9.0	7.7	8.1	9.1	7.8	8.1
6	---	---	---	---	---	---	9.0	7.7	8.1	9.1	7.8	8.2
7	---	---	---	---	---	---	9.0	7.7	8.1	9.2	7.7	8.2
8	---	---	---	---	---	---	9.1	7.7	8.1	9.2	7.7	8.1
9	---	---	---	7.8	7.7	7.8	9.1	7.7	8.1	9.2	7.7	8.1
10	---	---	---	7.9	7.7	7.8	9.1	7.7	8.1	9.1	7.6	7.8
11	---	---	---	7.9	7.7	7.8	9.1	7.6	8.0	9.0	7.6	7.8
12	---	---	---	8.0	7.7	7.8	8.3	7.6	7.8	---	---	---
13	---	---	---	8.2	7.7	7.8	8.8	7.7	7.9	---	---	---
14	---	---	---	8.3	7.7	7.8	9.0	7.7	8.0	---	---	---
15	---	---	---	8.5	7.7	7.8	7.8	7.4	7.6	---	---	---
16	---	---	---	7.9	7.7	7.8	7.6	7.5	7.6	8.8	7.4	7.6
17	---	---	---	8.1	7.8	7.8	7.6	7.4	7.5	8.6	7.4	7.8
18	---	---	---	8.2	7.8	7.8	7.5	7.4	7.5	8.6	7.6	7.8
19	---	---	---	8.2	7.7	7.8	7.6	7.4	7.5	8.7	7.6	7.8
20	---	---	---	8.2	7.7	7.7	---	---	---	8.9	7.6	7.9
21	---	---	---	7.9	7.7	7.7	---	---	---	8.9	7.6	7.9
22	---	---	---	8.1	7.6	7.7	---	---	---	8.9	7.5	7.8
23	---	---	---	7.9	7.6	7.7	---	---	---	8.7	7.5	7.7
24	---	---	---	8.1	7.6	7.7	9.1	7.7	8.0	8.7	7.4	7.6
25	---	---	---	8.6	7.7	7.8	9.0	7.7	7.9	9.0	7.4	7.7
26	---	---	---	8.8	7.6	7.8	---	---	---	9.0	7.4	7.8
27	---	---	---	8.9	7.6	7.8	---	---	---	8.7	7.4	7.6
28	---	---	---	9.2	7.6	8.0	---	---	---	7.8	7.3	7.5
29	---	---	---	9.0	7.6	8.0	---	---	---	8.2	7.4	7.6
30	---	---	---	8.9	7.6	8.0	---	---	---	8.2	7.5	7.6
31	---	---	---	9.1	7.6	8.0	---	---	---	8.2	7.5	7.6
<b>Max</b>	---	---	---	9.2	7.8	8.0	9.3	7.7	8.1	9.2	7.8	8.2
<b>Min</b>	---	---	---	7.5	7.4	7.5	7.5	7.4	7.5	7.8	7.3	7.5

## 01480617 WEST BRANCH BRANDYWINE CREEK AT MODENA, PA—Continued

**PH, WATER, UNFILTERED, FIELD, STANDARD UNITS**  
**WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007**

Day	Max	Min	Median	Max	Min	Median	Max	Min	Median	Max	Min	Median
	June			July			August			September		
1	8.3	7.4	7.6	7.9	7.5	7.7	8.4	7.6	7.9	8.7	7.7	8.2
2	8.3	7.4	7.7	7.9	7.5	7.6	8.5	7.6	7.9	8.5	7.7	8.1
3	7.9	7.4	7.6	8.6	7.4	8.0	8.7	7.6	8.1	8.5	7.7	8.1
4	7.7	7.4	7.6	8.2	7.6	7.8	8.7	7.6	8.1	8.5	7.6	8.1
5	7.9	7.5	7.7	7.6	7.3	7.5	8.7	7.6	8.1	8.5	7.6	8.1
6	8.1	7.6	7.7	7.6	7.1	7.3	8.4	7.6	7.9	8.4	7.6	8.1
7	8.0	7.6	7.7	7.8	7.5	7.6	8.6	7.5	8.0	8.4	7.6	8.0
8	8.0	7.6	7.7	7.9	7.5	7.6	8.5	7.6	7.9	8.3	7.6	8.0
9	8.1	7.5	7.7	8.0	7.4	7.6	8.2	7.4	7.6	8.1	7.6	7.9
10	7.9	7.5	7.6	8.0	7.4	7.6	8.0	7.4	7.7	8.0	7.5	7.9
11	8.0	7.4	7.6	---	---	---	8.3	7.6	7.8	7.9	7.5	7.6
12	8.0	7.4	7.5	---	---	---	8.3	7.6	7.8	8.0	7.6	7.8
13	7.9	7.4	7.6	8.4	7.6	7.9	8.4	7.5	7.8	8.0	7.6	7.8
14	8.2	7.6	7.9	8.5	7.6	8.0	8.4	7.6	7.9	8.0	7.6	7.8
15	8.4	7.7	7.8	8.8	7.6	8.0	8.6	7.6	8.1	8.1	7.6	7.9
16	8.4	7.6	7.9	8.9	7.5	8.0	8.2	7.6	7.9	8.1	7.7	7.9
17	8.5	7.6	7.9	---	---	---	8.0	7.5	7.6	8.0	7.7	7.9
18	8.5	7.5	7.8	---	---	---	8.1	7.6	7.8	8.1	7.7	7.9
19	8.5	7.5	7.8	8.7	7.6	8.0	7.8	7.6	7.7	8.1	7.7	7.9
20	7.6	7.4	7.5	8.7	7.6	8.1	7.8	7.6	7.6	8.2	7.6	7.9
21	7.6	7.4	7.5	8.7	7.6	8.1	7.8	7.6	7.7	8.2	7.7	8.0
22	7.7	7.4	7.4	8.7	7.6	8.1	7.8	7.6	7.7	8.0	7.6	7.8
23	7.8	7.3	7.6	8.7	7.6	8.1	8.0	7.7	7.8	8.0	7.6	7.8
24	7.9	7.5	7.7	8.8	7.6	8.3	8.1	7.7	7.8	8.0	7.6	7.8
25	7.7	7.4	7.5	8.8	7.6	8.3	8.2	7.6	7.8	8.2	7.6	7.9
26	8.4	7.4	7.6	8.8	7.6	8.2	8.3	7.6	7.8	8.2	7.6	7.9
27	8.5	7.6	7.9	8.7	7.6	7.9	8.4	7.6	7.9	8.2	7.6	8.0
28	---	---	---	8.4	7.4	7.6	8.6	7.6	8.0	8.1	7.6	7.9
29	---	---	---	---	---	---	8.7	7.6	8.1	8.1	7.7	7.9
30	8.1	7.7	7.8	---	---	---	8.7	7.6	8.1	8.2	7.7	7.9
31	---	---	---	8.3	7.6	7.9	8.7	7.6	8.1	---	---	---
<b>Max</b>	8.5	7.7	7.9	8.9	7.6	8.3	8.7	7.7	8.1	8.7	7.7	8.2
<b>Min</b>	7.6	7.3	7.4	7.6	7.1	7.3	7.8	7.4	7.6	7.9	7.5	7.6

## 01480617 WEST BRANCH BRANDYWINE CREEK AT MODENA, PA—Continued

**TEMPERATURE, WATER, DEGREES CELSIUS**  
**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	18.1	15.3	16.4	13.9	11.5	12.6	15.2	13.2	14.1	---	---	---
2	17.7	15.3	16.5	13.2	10.5	12.2	13.4	8.5	10.4	---	---	---
3	19.1	15.8	17.3	10.5	8.3	9.1	8.5	6.9	7.5	---	---	---
4	20.4	17.6	18.9	8.8	6.7	7.8	7.3	5.4	6.3	---	---	---
5	19.8	18.1	18.8	8.8	6.7	7.7	---	---	---	---	---	---
6	18.1	14.2	15.6	9.2	6.5	7.9	---	---	---	---	---	---
7	15.0	13.3	14.2	10.3	8.1	9.2	---	---	---	---	---	---
8	17.0	14.2	15.4	12.3	10.3	11.6	---	---	---	---	---	---
9	17.6	14.5	16.0	13.7	12.3	12.9	---	---	---	---	---	---
10	18.1	15.5	16.7	13.0	11.2	12.3	---	---	---	---	---	---
11	17.3	16.2	16.8	13.3	10.9	12.2	---	---	---	---	---	---
12	18.2	16.0	17.3	13.2	12.0	12.6	---	---	---	---	---	---
13	16.0	12.7	13.8	13.3	11.9	12.6	---	---	---	---	---	---
14	12.7	10.6	11.7	13.6	13.0	13.3	---	---	---	---	---	---
15	12.5	9.9	11.1	14.4	12.9	13.6	---	---	---	---	---	---
16	12.6	9.8	11.2	16.5	13.7	14.6	---	---	---	---	---	---
17	13.9	11.9	12.6	15.6	12.5	14.6	---	---	---	---	---	---
18	16.2	13.5	14.7	12.5	10.8	11.5	---	---	---	---	---	---
19	16.5	14.4	15.5	11.2	9.9	10.4	---	---	---	---	---	---
20	16.6	14.0	15.8	10.3	9.1	9.6	---	---	---	---	---	---
21	14.0	12.1	13.0	9.1	7.8	8.5	---	---	---	---	---	---
22	12.7	10.9	11.9	8.4	7.3	7.7	---	---	---	---	---	---
23	12.2	11.0	11.7	8.4	7.3	7.8	---	---	---	---	---	---
24	11.0	9.4	10.1	8.9	7.2	8.2	---	---	---	---	---	---
25	10.4	8.6	9.5	8.3	6.5	7.6	---	---	---	---	---	---
26	10.3	8.9	9.6	8.9	6.7	7.9	---	---	---	---	---	---
27	9.3	8.3	8.9	9.2	7.3	8.4	---	---	---	---	---	---
28	12.1	9.3	11.2	9.8	7.8	8.9	---	---	---	---	---	---
29	11.3	9.7	10.5	11.2	9.7	10.4	---	---	---	---	---	---
30	10.8	8.1	9.6	13.2	11.2	12.1	---	---	---	---	---	---
31	11.9	9.3	10.7	---	---	---	---	---	---	---	---	---
<b>Month</b>	20.4	8.1	13.6	16.5	6.5	10.5	15.2	5.4	9.6	---	---	---

## 01480617 WEST BRANCH BRANDYWINE CREEK AT MODENA, PA—Continued

**TEMPERATURE, WATER, DEGREES CELSIUS**  
**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	---	---	---	---	---	---	11.3	9.9	10.4	16.7	13.3	15.0
2	---	---	---	---	---	---	14.7	9.4	11.8	17.6	13.7	15.6
3	---	---	---	---	---	---	15.1	11.4	13.2	17.3	13.1	15.2
4	---	---	---	---	---	---	13.7	9.9	11.2	17.2	12.6	15.0
5	---	---	---	---	---	---	10.3	8.3	9.3	16.9	12.7	15.0
6	---	---	---	---	---	---	9.5	6.8	8.1	15.5	12.2	14.1
7	---	---	---	---	---	---	8.5	6.6	7.6	16.1	11.6	13.9
8	---	---	---	---	---	---	7.9	5.4	6.8	17.2	12.0	14.7
9	---	---	---	5.7	2.0	3.7	7.5	5.4	6.6	18.1	14.0	16.1
10	---	---	---	7.5	3.5	5.4	8.9	5.4	7.3	19.3	16.0	17.4
11	---	---	---	8.7	6.0	7.4	8.6	5.7	7.4	20.1	16.7	18.2
12	---	---	---	8.4	4.9	6.9	8.8	6.9	7.9	19.8	16.5	18.2
13	---	---	---	9.6	6.6	8.1	8.6	7.3	7.9	19.3	16.4	18.1
14	---	---	---	11.9	7.8	9.9	10.1	6.2	8.3	18.1	14.9	16.7
15	---	---	---	11.7	9.2	10.8	9.8	6.5	7.6	19.7	15.4	17.5
16	---	---	---	9.2	1.5	5.5	6.5	4.7	5.4	19.7	16.5	18.2
17	---	---	---	5.3	1.6	3.6	8.4	5.2	7.0	18.3	16.1	17.3
18	---	---	---	6.7	2.9	4.8	9.6	7.5	8.5	16.8	14.8	15.6
19	---	---	---	6.8	3.5	5.4	11.1	8.9	9.8	16.8	13.4	15.1
20	---	---	---	9.0	5.9	7.0	14.5	9.0	11.5	17.8	14.3	16.0
21	---	---	---	7.7	5.0	6.3	15.4	10.1	12.7	18.9	15.1	16.9
22	---	---	---	11.4	6.4	8.6	16.8	11.4	14.0	18.7	14.6	16.7
23	---	---	---	10.9	9.5	10.2	17.9	12.6	15.3	19.4	15.4	17.3
24	---	---	---	10.3	9.4	9.9	19.0	15.1	17.0	20.5	16.2	18.3
25	---	---	---	12.6	9.1	10.6	17.0	14.0	15.4	21.6	16.7	19.1
26	---	---	---	11.1	8.8	10.0	14.7	13.3	13.7	21.8	18.0	19.9
27	---	---	---	14.5	9.7	11.9	---	---	---	22.1	18.1	20.2
28	---	---	---	14.2	11.9	13.1	---	---	---	21.8	19.7	20.7
29	---	---	---	12.5	9.4	11.2	---	---	---	22.0	17.8	19.9
30	---	---	---	12.7	8.2	10.7	---	---	---	22.0	17.2	19.6
31	---	---	---	12.1	9.5	10.8	---	---	---	23.1	18.2	20.5
<b>Month</b>	---	---	---	14.5	1.5	8.3	19.0	4.7	10.1	23.1	11.6	17.2

## 01480617 WEST BRANCH BRANDYWINE CREEK AT MODENA, PA—Continued

**TEMPERATURE, WATER, DEGREES CELSIUS**  
**WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007**

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
	<b>June</b>			<b>July</b>			<b>August</b>			<b>September</b>		
<b>1</b>	23.4	19.7	21.4	22.8	19.7	21.2	25.2	21.2	23.2	22.0	19.2	20.7
<b>2</b>	23.3	20.0	21.6	21.6	18.3	19.9	25.9	21.6	23.6	21.8	18.2	20.1
<b>3</b>	21.4	19.4	20.2	22.0	17.4	19.6	26.0	22.1	24.0	22.2	18.4	20.2
<b>4</b>	20.4	18.5	19.3	21.3	18.9	19.6	26.2	22.6	24.4	22.6	19.5	21.0
<b>5</b>	20.7	18.7	19.7	22.0	20.4	21.2	24.9	22.0	23.6	22.4	19.3	20.9
<b>6</b>	21.2	18.0	19.5	23.4	21.1	22.1	24.2	22.4	23.3	23.1	20.2	21.6
<b>7</b>	20.9	16.5	18.7	24.0	20.2	22.0	25.4	22.3	23.8	23.6	20.6	22.0
<b>8</b>	23.5	18.2	20.7	24.3	20.1	22.2	27.2	23.4	25.2	24.5	21.3	22.9
<b>9</b>	24.2	20.3	22.0	25.4	21.3	23.2	26.2	23.7	24.8	23.5	21.4	22.7
<b>10</b>	21.7	20.0	20.6	25.1	21.7	23.4	25.1	22.5	23.5	24.1	22.1	23.1
<b>11</b>	23.1	19.0	20.8	---	---	---	24.3	20.7	22.5	23.3	21.7	22.3
<b>12</b>	22.9	19.6	21.2	---	---	---	24.7	20.7	22.7	21.7	19.6	20.7
<b>13</b>	22.0	19.6	20.6	22.5	19.8	21.2	24.9	21.7	23.2	20.8	18.1	19.5
<b>14</b>	19.8	17.1	18.3	23.3	19.5	21.4	23.7	20.5	22.2	20.4	18.7	19.6
<b>15</b>	19.1	16.2	17.5	24.4	20.4	22.3	23.7	19.7	21.8	20.3	18.9	19.7
<b>16</b>	21.8	17.2	19.3	24.6	21.4	22.8	23.5	21.3	22.3	18.9	16.4	17.5
<b>17</b>	23.2	18.5	20.8	---	---	---	23.6	21.8	22.5	17.8	15.1	16.6
<b>18</b>	24.6	20.1	22.1	---	---	---	22.7	19.7	21.3	18.1	15.1	16.7
<b>19</b>	25.0	20.7	22.7	23.7	21.5	22.6	21.1	19.1	19.5	19.0	15.6	17.3
<b>20</b>	23.1	20.9	22.0	23.5	21.1	22.3	19.2	18.3	18.5	19.2	16.5	18.0
<b>21</b>	23.1	19.2	21.1	23.3	19.2	21.2	18.3	17.0	17.6	20.1	17.0	18.6
<b>22</b>	22.8	19.6	21.1	23.1	19.3	21.1	17.6	16.6	17.1	20.4	18.3	19.3
<b>23</b>	22.2	18.2	20.2	21.4	19.5	20.2	20.3	17.4	18.6	20.6	18.9	19.8
<b>24</b>	22.6	17.8	20.1	22.5	17.7	20.1	21.2	18.9	19.9	19.8	17.3	18.8
<b>25</b>	21.5	19.3	20.4	23.4	19.6	21.4	24.2	20.0	21.8	20.6	17.2	19.0
<b>26</b>	25.0	19.9	22.2	24.3	21.0	22.5	23.2	21.4	22.2	21.6	18.5	20.0
<b>27</b>	25.9	21.5	23.6	24.8	21.6	22.9	22.9	20.1	21.5	22.1	19.8	21.0
<b>28</b>	24.8	22.2	23.6	24.4	21.2	22.8	23.2	19.9	21.4	21.7	19.9	20.8
<b>29</b>	23.2	21.6	22.3	23.2	21.0	22.1	22.9	19.8	21.3	19.9	17.9	18.9
<b>30</b>	23.6	20.6	21.9	24.3	21.2	22.4	23.0	20.0	21.4	18.9	16.6	17.9
<b>31</b>	---	---	---	25.3	21.3	23.1	25.4	20.8	21.8	---	---	---
<b>Month</b>	25.9	16.2	20.9	25.4	17.4	21.7	27.2	16.6	22.0	24.5	15.1	19.9

## 01480617 WEST BRANCH BRANDYWINE CREEK AT MODENA, PA—Continued

DISSOLVED OXYGEN, WATER, UNFILTERED, MILLIGRAMS PER LITER  
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	10.4	9.1	9.7	10.7	9.2	9.9	9.6	8.4	9.1	---	---	---
2	11.0	8.8	9.7	11.0	9.2	10.2	11.5	8.8	10.5	---	---	---
3	10.8	8.8	9.7	12.2	10.6	11.4	12.6	11.0	11.8	---	---	---
4	10.4	8.3	9.2	12.7	11.1	11.9	13.0	11.3	12.1	---	---	---
5	10.4	8.1	9.1	12.8	11.2	11.8	---	---	---	---	---	---
6	11.3	8.7	10.5	12.8	10.8	11.7	---	---	---	---	---	---
7	12.5	10.6	11.3	12.0	9.9	11.0	---	---	---	---	---	---
8	11.9	9.8	10.8	9.9	6.8	8.7	---	---	---	---	---	---
9	11.9	9.2	10.5	8.1	7.1	7.8	---	---	---	---	---	---
10	11.6	8.9	10.0	9.1	8.1	8.6	---	---	---	---	---	---
11	11.1	8.6	9.6	9.5	7.7	8.7	---	---	---	---	---	---
12	10.5	8.2	9.2	8.8	7.6	8.2	---	---	---	---	---	---
13	11.8	8.9	10.3	10.2	7.9	9.1	---	---	---	---	---	---
14	12.5	10.1	11.2	10.0	8.7	9.6	---	---	---	---	---	---
15	12.9	10.7	11.5	10.4	9.2	9.7	---	---	---	---	---	---
16	13.2	10.3	11.7	10.3	8.8	9.4	---	---	---	---	---	---
17	11.1	10.0	10.4	9.9	8.8	9.3	---	---	---	---	---	---
18	11.1	9.5	10.3	10.8	9.9	10.4	---	---	---	---	---	---
19	11.7	8.8	10.0	11.2	10.3	10.8	---	---	---	---	---	---
20	10.2	8.9	9.7	11.4	10.6	11.1	---	---	---	---	---	---
21	11.8	9.6	11.0	12.0	11.1	11.6	---	---	---	---	---	---
22	12.4	10.7	11.4	12.1	11.3	11.7	---	---	---	---	---	---
23	12.1	9.6	10.6	11.8	11.2	11.5	---	---	---	---	---	---
24	11.6	9.5	10.5	12.1	10.9	11.4	---	---	---	---	---	---
25	11.9	10.2	10.9	12.2	11.1	11.6	---	---	---	---	---	---
26	12.1	10.1	11.0	12.2	10.8	11.6	---	---	---	---	---	---
27	12.1	10.6	11.2	12.1	10.8	11.4	---	---	---	---	---	---
28	10.7	7.9	9.3	11.9	10.4	11.2	---	---	---	---	---	---
29	9.6	8.3	9.1	11.3	9.1	10.6	---	---	---	---	---	---
30	11.0	9.2	10.2	11.0	9.3	10.2	---	---	---	---	---	---
31	11.7	9.7	10.5	---	---	---	---	---	---	---	---	---
Month	13.2	7.9	10.3	12.8	6.8	10.4	13.0	8.4	10.9	---	---	---

## 01480617 WEST BRANCH BRANDYWINE CREEK AT MODENA, PA—Continued

DISSOLVED OXYGEN, WATER, UNFILTERED, MILLIGRAMS PER LITER  
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
	<b>February</b>			<b>March</b>			<b>April</b>			<b>May</b>		
1	---	---	---	---	---	---	13.3	10.0	11.4	11.7	9.6	10.6
2	---	---	---	---	---	---	15.1	10.0	11.9	12.0	9.4	10.5
3	---	---	---	---	---	---	14.9	9.9	11.9	12.3	9.1	10.7
4	---	---	---	---	---	---	12.7	9.9	11.3	11.7	9.2	10.3
5	---	---	---	---	---	---	14.9	11.6	13.1	---	---	---
6	---	---	---	---	---	---	15.6	11.8	13.5	---	---	---
7	---	---	---	---	---	---	15.6	11.7	13.4	---	---	---
8	---	---	---	---	---	---	16.2	12.0	13.9	---	---	---
9	---	---	---	15.1	13.6	14.3	16.1	11.9	13.8	---	---	---
10	---	---	---	14.4	12.4	13.6	15.7	11.0	13.4	---	---	---
11	---	---	---	13.5	12.4	12.8	16.6	10.9	13.5	---	---	---
12	---	---	---	14.1	12.2	13.2	13.7	11.4	12.5	---	---	---
13	---	---	---	13.8	11.9	12.8	14.6	11.8	13.0	---	---	---
14	---	---	---	13.7	10.7	12.2	15.1	10.6	13.0	---	---	---
15	---	---	---	12.8	10.7	11.7	12.2	10.6	11.6	---	---	---
16	---	---	---	14.6	11.5	12.9	---	---	---	---	---	---
17	---	---	---	14.6	13.0	14.0	---	---	---	---	---	---
18	---	---	---	14.4	12.5	13.5	---	---	---	11.1	8.8	9.9
19	---	---	---	14.4	12.0	13.3	---	---	---	11.7	9.2	10.4
20	---	---	---	13.6	12.0	12.6	---	---	---	11.7	8.7	10.1
21	---	---	---	14.0	12.7	13.5	12.1	9.9	11.0	11.5	8.6	9.9
22	---	---	---	13.6	10.9	12.6	11.7	9.3	10.6	11.8	8.2	9.9
23	---	---	---	12.3	11.0	11.6	11.5	8.7	10.2	---	---	---
24	---	---	---	12.7	11.3	11.9	11.2	8.4	9.6	---	---	---
25	---	---	---	13.3	10.7	12.0	11.6	8.4	9.8	---	---	---
26	---	---	---	13.8	10.7	12.2	11.6	8.9	10.2	10.5	7.0	8.6
27	---	---	---	13.2	9.3	11.4	---	---	---	---	---	---
28	---	---	---	13.4	9.3	11.2	---	---	---	---	---	---
29	---	---	---	14.1	10.0	11.9	---	---	---	---	---	---
30	---	---	---	13.9	9.8	11.7	---	---	---	9.0	6.8	7.6
31	---	---	---	14.3	9.8	11.8	---	---	---	9.3	6.8	7.9
<b>Month</b>	---	---	---	15.1	9.3	12.6	16.6	8.4	12.0	12.3	6.8	9.7

## 01480617 WEST BRANCH BRANDYWINE CREEK AT MODENA, PA—Continued

DISSOLVED OXYGEN, WATER, UNFILTERED, MILLIGRAMS PER LITER  
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	9.6	6.8	7.9	---	---	---	9.7	7.2	8.3	10.8	7.9	9.1
2	9.4	6.8	8.0	---	---	---	9.7	7.4	8.2	11.0	8.3	9.2
3	8.9	5.9	7.8	---	---	---	9.8	7.2	8.2	10.9	7.8	9.1
4	7.9	6.5	7.5	8.2	6.8	7.5	9.7	7.2	8.2	10.7	7.7	8.8
5	8.5	7.3	7.8	---	---	---	9.9	7.2	8.3	10.8	7.6	8.8
6	8.7	7.2	7.8	---	---	---	9.5	7.3	8.2	10.4	7.5	8.6
7	8.8	6.4	7.6	7.9	7.1	7.5	9.7	7.2	8.3	10.0	6.9	8.2
8	8.7	4.7	7.1	8.2	7.1	7.6	9.1	7.0	7.9	9.8	6.9	8.0
9	8.3	5.1	6.4	8.4	7.1	7.6	9.3	6.8	7.7	9.3	7.0	7.8
10	7.9	4.8	6.2	8.8	7.0	7.9	9.0	7.8	8.2	8.9	6.8	7.6
11	8.6	5.8	7.2	---	---	---	9.7	7.8	8.6	8.0	6.5	7.2
12	8.6	4.4	6.7	---	---	---	10.6	7.5	8.5	9.3	7.2	8.3
13	8.9	5.5	7.5	9.7	8.0	8.7	9.4	7.0	8.0	9.7	7.9	8.7
14	9.2	7.2	8.2	10.1	8.0	8.9	10.1	6.9	8.5	9.6	8.1	8.7
15	9.1	6.8	8.0	10.5	7.7	8.9	10.3	7.8	8.7	9.4	7.9	8.5
16	9.0	6.5	7.5	10.4	7.3	8.6	9.7	7.0	8.1	10.3	8.4	9.2
17	8.8	5.7	7.1	---	---	---	9.2	4.7	7.7	10.7	8.8	9.6
18	8.8	5.1	6.8	---	---	---	9.8	6.9	8.7	10.7	8.8	9.6
19	---	---	---	10.3	7.7	8.8	9.3	8.2	8.6	10.6	8.8	9.5
20	---	---	---	10.4	7.8	9.1	9.6	7.3	8.9	10.5	8.6	9.3
21	---	---	---	11.1	8.4	9.5	10.1	9.3	9.8	10.4	8.0	9.1
22	8.0	6.6	7.2	11.3	8.6	9.7	10.5	8.8	9.8	9.9	8.0	8.6
23	8.8	6.6	7.5	11.6	8.7	9.9	9.5	8.3	8.8	9.6	7.8	8.5
24	8.9	6.9	7.8	12.0	8.9	10.2	9.1	8.0	8.5	10.0	7.9	8.8
25	---	---	---	11.5	8.8	10	9.0	7.3	8.1	10.1	8.1	8.9
26	---	---	---	11.4	8.5	9.6	8.9	6.8	7.9	10.0	7.7	8.7
27	9.3	7.3	8.1	11.1	7.5	9.2	9.1	6.8	8.1	10.1	7.7	8.5
28	8.8	6.0	7.5	10.5	6.9	8.7	9.7	7.5	8.3	9.7	7.4	8.4
29	---	---	---	9.6	7.1	8.6	9.9	7.0	8.3	10.6	8.2	9.2
30	---	---	---	11.0	7.7	8.9	9.8	7.3	8.2	11.1	8.8	9.7
31	---	---	---	9.3	7.5	8.2	10.5	6.8	8.2	---	---	---
Month	9.6	4.4	7.4	12.0	6.8	8.8	10.6	4.7	8.4	11.1	6.5	8.7

## 01480617 WEST BRANCH BRANDYWINE CREEK AT MODENA, 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
	October			November			December			January		
1	4.0	2.0	3.1	33	3.0	6.0	46	3.0	10	---	---	---
2	4.0	2.0	3.3	14	3.0	6.4	---	---	---	---	---	---
3	5.0	2.0	3.3	5.0	2.0	3.0	---	---	---	---	---	---
4	5.0	2.0	3.0	4.0	2.0	2.8	5.0	3.0	3.8	---	---	---
5	7.0	2.0	3.6	6.0	2.0	3.4	---	---	---	---	---	---
6	13	3.0	6.7	---	---	---	---	---	---	---	---	---
7	6.0	2.0	3.7	---	---	---	9.0	2.0	3.4	---	---	---
8	5.0	2.0	3.5	320	3.0	94	7.0	2.0	2.9	---	---	---
9	4.0	2.0	3.1	160	21	56	4.0	2.0	2.2	---	---	---
10	4.0	3.0	3.3	25	6.0	12	4.0	2.0	2.5	---	---	---
11	5.0	2.0	3.6	9.0	5.0	6.8	18	2.0	4.3	---	---	---
12	7.0	3.0	4.8	8.0	3.0	4.2	---	---	---	---	---	---
13	5.0	2.0	3.0	8.0	3.0	4.4	---	---	---	---	---	---
14	4.0	2.0	2.9	---	---	---	---	---	---	---	---	---
15	7.0	2.0	3.4	---	---	---	---	---	---	---	---	---
16	7.0	3.0	4.7	---	---	---	---	---	---	---	---	---
17	---	---	---	700	63	220	---	---	---	---	---	---
18	---	---	---	---	---	---	---	---	---	---	---	---
19	---	---	---	---	---	---	---	---	---	---	---	---
20	110	5.0	30	---	---	---	---	---	---	---	---	---
21	11	3.0	6.1	---	---	---	---	---	---	---	---	---
22	9.0	3.0	5.9	14	3.0	5.2	---	---	---	---	---	---
23	11	2.0	4.6	19	5.0	9.8	---	---	---	---	---	---
24	3.0	1.0	2.5	---	---	---	---	---	---	---	---	---
25	5.0	2.0	2.8	---	---	---	---	---	---	---	---	---
26	6.0	3.0	4.2	14	4.0	5.7	---	---	---	---	---	---
27	11	4.0	5.9	6.0	3.0	3.6	---	---	---	---	---	---
28	---	---	---	6.0	3.0	3.3	---	---	---	---	---	---
29	---	---	---	7.0	3.0	3.5	---	---	---	---	---	---
30	---	---	---	8.0	3.0	3.4	---	---	---	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---
<b>Month</b>	110	1.0	5.0	700	2.0	24	46	2.0	4.2	---	---	---

## 01480617 WEST BRANCH BRANDYWINE CREEK AT MODENA, 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	---	---	---	150	10	20	4.0	2.0	2.9	5.1	2.1	3.6
2	---	---	---	380	62	190	3.0	0.0	1.6	4.1	2.1	2.7
3	---	---	---	62	14	27	3.0	1.0	1.4	5.1	1.0	2.4
4	---	---	---	14	8.0	11	72	2.0	20	2.1	1.0	1.6
5	---	---	---	9.0	6.0	7.3	20	2.0	7.4	3.1	1.0	1.4
6	---	---	---	7.0	5.0	5.2	---	---	---	2.1	1.0	1.4
7	---	---	---	5.0	4.0	4.2	---	---	---	2.1	1.0	2.0
8	---	---	---	5.0	3.0	3.6	---	---	---	3.1	1.0	1.8
9	---	---	---	4.0	3.0	3.1	---	---	---	16	1.0	3.1
10	---	---	---	4.0	2.0	2.6	---	---	---	4.1	1.0	1.6
11	---	---	---	11	2.0	4.1	2.0	0.0	1.0	3.1	1.0	1.1
12	---	---	---	3.0	2.0	2.2	42	1.0	11	380	1.0	33
13	---	---	---	3.0	2.0	2.2	7.1	3.0	3.8	49	3.1	11
14	---	---	---	3.0	2.0	2.3	4.0	2.0	2.5	6.2	2.1	2.7
15	---	---	---	26	2.0	4.3	260	3.0	130	2.1	1.0	2.0
16	---	---	---	19	7.0	12	84	32	54	26	2.1	5.1
17	---	---	---	12	4.0	8.5	48	10	21	---	---	---
18	---	---	---	5.0	3.0	3.5	10	5.1	7.0	4.2	1.0	2.3
19	---	---	---	9.0	2.0	3.5	6.1	3.0	4.6	6.3	1.0	2.8
20	---	---	---	69	3.0	17	12	2.0	3.9	8.4	1.0	2.9
21	---	---	---	110	10	40	3.1	2.0	2.4	5.2	1.0	2.0
22	---	---	---	17	6.0	8.0	6.1	1.0	2.0	---	---	---
23	---	---	---	22	6.0	9.1	2.0	0.0	1.4	---	---	---
24	---	---	---	14	7.0	9.7	2.0	1.0	1.3	---	---	---
25	---	---	---	7.0	4.0	5.2	3.1	1.0	1.5	---	---	---
26	---	---	---	7.0	3.0	3.9	10	1.0	1.5	37	1.1	4.7
27	---	---	---	4.0	3.0	3.2	440	5.1	120	30	1.1	6.2
28	---	---	---	5.0	3.0	3.3	32	7.2	14	15	4.2	7.2
29	---	---	---	4.0	2.0	3.0	8.2	4.1	5.8	22	5.3	10
30	---	---	---	5.0	3.0	3.2	15	3.1	5.0	6.3	3.2	5.0
31	---	---	---	4.0	2.0	2.8	---	---	---	5.3	1.1	1.8
<b>Month</b>	---	---	---	380	2.0	14	440	0.0	17	380	1.0	4.7

## 01480617 WEST BRANCH BRANDYWINE CREEK AT MODENA, 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	3.2	1.1	1.8	7.0	3.0	5.2	15	2.0	4.7	3.9	2.0	2.5
2	6.3	1.1	2.8	6.0	2.0	4.2	15	5.0	9.7	19	2.9	5.7
3	87	2.1	13	5.0	1.0	3.6	68	4.0	13	3.9	2.0	3.0
4	50	7.4	19	520	2.0	47	80	3.0	24	2.9	2.0	2.5
5	11	4.2	6.9	520	22	96	16	2.0	4.4	3.9	2.0	2.6
6	7.4	2.1	4.7	170	27	93	8.0	2.0	4.0	6.8	2.0	3.7
7	---	---	---	27	7.0	17	8.0	0.0	4.2	9.8	2.9	6.5
8	---	---	---	12	4.0	7.9	11	2.0	5.3	---	---	---
9	---	---	---	8.0	2.0	5.0	69	4.0	18	---	---	---
10	4.3	2.1	2.7	8.0	1.0	4.7	---	---	---	---	---	---
11	13	2.1	3.7	210	4.0	57	---	---	---	---	---	---
12	27	3.2	7.9	96	9.0	24	---	---	---	---	---	---
13	6.4	3.2	4.1	14	5.0	9.5	---	---	---	---	---	---
14	6.4	0.0	3.8	10	3.0	6.5	---	---	---	3.9	1.9	3.0
15	4.0	2.0	3.0	7.0	1.0	3.9	---	---	---	4.9	2.9	3.7
16	4.0	1.0	2.8	---	---	---	4.0	1.0	2.7	4.8	2.9	3.9
17	12	2.0	5.1	---	---	---	230	2.0	32	5.8	2.9	3.7
18	---	---	---	7.0	1.0	2.6	21	4.0	8.7	12	3.9	5.1
19	9.0	2.0	3.8	9.0	2.0	3.8	9.0	3.0	5.2	7.7	2.9	4.6
20	140	6.0	95	9.0	2.0	4.6	29	7.0	13	7.7	1.9	4.0
21	100	16	49	6.0	2.0	2.9	230	15	36	---	---	---
22	16	6.0	12	4.0	1.0	2.3	160	29	65	---	---	---
23	10	4.0	5.9	5.0	1.0	2.5	29	7.9	17	---	---	---
24	20	4.0	7.0	8.0	1.0	1.8	8.9	5.9	7.4	---	---	---
25	---	---	---	4.0	1.0	2.0	8.9	5.0	7.2	---	---	---
26	---	---	---	4.0	1.0	2.6	8.9	5.9	7.2	3.8	1.0	2.6
27	11	1.0	3.9	87	1.0	12	8.9	4.0	6.4	3.8	1.0	2.6
28	14	6.0	9.3	44	5.0	13	7.9	3.9	5.3	5.7	1.9	3.1
29	13	6.0	9.2	300	5.0	51	6.9	3.9	5.2	6.7	1.9	3.3
30	39	6.0	14	25	5.0	11	7.9	3.9	5.5	5.7	2.9	3.5
31	---	---	---	14	3.0	5.6	6.9	2.0	4.5	---	---	---
<b>Month</b>	140	0.0	12	520	1.0	17	230	0.0	13	19	1.0	3.7

## 01480617 WEST BRANCH BRANDYWINE CREEK AT MODENA, PA—Continued

## CLIMATOLOGICAL RECORDS

COOPERATION.--Station established and maintained by the U.S. Geological Survey in cooperation with the Chester County Water Resources Authority and the City of Wilmington, Delaware.

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**

[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	0.09	0.00	0.28	1.17	0.00	0.39	0.02	0.00	0.05	0.00	0.00	0.00
2	0.00	0.42	0.00	0.00	0.15	1.20	0.02	0.00	0.01	0.00	0.00	0.00
3	0.00	0.00	0.00	0.00	0.00	0.03	0.00	0.00	0.03	0.00	0.00	0.00
4	0.00	0.00	0.00	0.00	0.00	0.00	0.47	0.00	0.10	2.18	0.00	0.00
5	0.02	0.00	0.00	0.23	0.00	0.00	0.00	0.00	0.00	1.01	0.10	0.00
6	0.51	0.00	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00
7	0.02	0.16	0.00	0.68	0.00	e0.07	0.00	0.00	0.00	0.00	0.00	0.00
8	0.00	1.87	0.00	0.46	0.00	e0.00	0.00	0.00	0.03	0.00	0.19	0.00
9	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.06	0.00	1.06	0.00
10	0.00	0.00	0.00	0.00	0.00	0.09	0.00	0.00	0.01	0.00	0.00	0.00
11	0.03	0.00	0.00	0.00	0.00	0.03	0.01	0.00	0.18	1.01	0.00	0.17
12	0.01	0.17	0.00	0.00	0.00	0.00	0.79	1.27	0.04	0.00	0.00	0.00
13	0.00	0.23	0.14	0.21	e0.07	0.00	0.00	0.08	0.19	0.00	0.00	0.00
14	0.00	0.01	0.00	0.09	e1.17	0.00	0.05	0.00	0.00	0.00	0.00	0.01
15	0.00	0.00	0.00	0.00	0.00	0.41	3.10	0.00	0.00	0.05	0.00	0.04
16	0.00	1.33	0.00	0.00	0.00	e1.67	1.05	0.42	0.00	0.00	0.01	0.00
17	0.70	0.00	0.00	0.00	e0.00	e0.34	0.00	0.00	0.00	0.00	0.93	0.00
18	0.01	0.00	0.00	0.00	e0.00	e0.00	0.00	0.00	0.00	0.00	0.00	0.00
19	0.07	0.00	0.00	0.00	e0.00	e0.00	0.00	0.01	0.11	0.00	0.38	0.00
20	1.07	0.00	0.00	0.00	e0.00	0.00	0.00	0.00	1.24	0.00	1.05	0.00
21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.18	0.00
22	0.00	0.38	0.72	0.03	0.06	0.15	0.00	0.00	0.00	0.00	0.02	0.04
23	0.00	0.35	0.47	0.00	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00
24	0.00	0.00	0.00	0.00	0.00	0.07	0.00	0.00	0.00	0.00	0.08	0.00
25	0.00	0.00	0.51	0.00	e0.48	0.00	0.02	0.00	0.43	0.00	0.00	0.01
26	0.00	0.00	0.04	0.00	e0.04	0.00	0.19	0.15	0.00	0.00	0.06	0.00
27	0.37	0.00	0.00	0.00	0.00	0.00	1.39	0.13	0.16	0.73	0.00	0.00
28	1.66	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.16	0.00	0.00	0.01
29	0.00	0.00	0.00	0.00	---	0.00	0.00	0.00	0.11	1.19	0.00	0.00
30	0.00	0.00	0.00	0.00	---	0.00	0.00	0.00	0.27	0.00	0.00	0.00
31	0.00	---	0.00	0.00	---	0.00	---	0.00	---	0.00	0.00	---
<b>Total</b>	4.56	4.92	2.16	2.92	1.97	4.61	7.13	2.06	3.18	6.18	5.06	0.28

**01480617 WEST BRANCH BRANDYWINE CREEK AT MODENA, PA—Continued****ECOLOGICAL RECORDS**

COOPERATION.--Station established and maintained by the U.S. Geological Survey in cooperation with the Chester County Water Resources Authority and the City of Wilmington, Delaware.

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	10/03/06
Benthic Macroinvertebrate	Count
Platyhelminthes	•
Turbellaria (FLATWORMS)	•
Tricladida	•
Planariidae	• 46
Nematoda (NEMATODES)	• 35
Mollusca	•
Gastropoda (SNAILS)	•
Basommatophora	•
Ancyliidae	•
<i>Ferrissia</i>	• 3
Physidae	•
<i>Physa</i>	• 1
Planorbidae	•
<i>Menetus dilatatus</i>	• 1
Bivalvia (CLAMS)	•
Veneroida	•
Sphaeriidae	•
<i>Sphaerium</i>	• 1
Annelida	•
Oligochaeta (AQUATIC EARTHWORMS)	•
Lumbriculida	•
Lumbriculidae	• 14
Arthropoda	•
Acariformes	•
Hydrachnidia (WATER MITES)	• 3
Crustacea	•
Amphipoda (SCUDS)	•
Crangonyctidae	•
<i>Crangonyx</i>	• 2
Insecta	•
Ephemeroptera (MAYFLIES)	•
Baetidae	•
<i>Acentrella</i>	• 15
<i>Baetis</i>	• 75
Trichoptera (CADDISFLIES)	•

**01480617 WEST BRANCH BRANDYWINE CREEK AT MODENA, PA—Continued**

Date	10/03/06
Benthic Macroinvertebrate	Count
Hydropsychidae	•
<i>Cheumatopsyche</i>	• 398
<i>Hydropsyche</i>	• 495
Hydroptilidae	•
<i>Leucotrichia</i>	• 82
Lepidoptera (MOTHS AND BUTTERFLIES)	•
Pyrilidae	•
<i>Petrophila</i>	• 89
Coleoptera (BEETLES)	•
Elmidae (RIFFLE BEETLES)	•
<i>Optioservus</i>	• 14
<i>Oulimnius</i>	• 10
<i>Stenelmis</i>	• 58
Psephenidae (WATER PENNIES)	•
<i>Psephenus</i>	• 9
Diptera (TRUE FLIES)	•
Chironomidae (MIDGES)	• 270
Simuliidae (BLACK FLIES)	•
<i>Simulium</i>	• 2
Tipulidae (CRANE FLIES)	•
<i>Antocha</i>	• 16
Total Organisms	1639