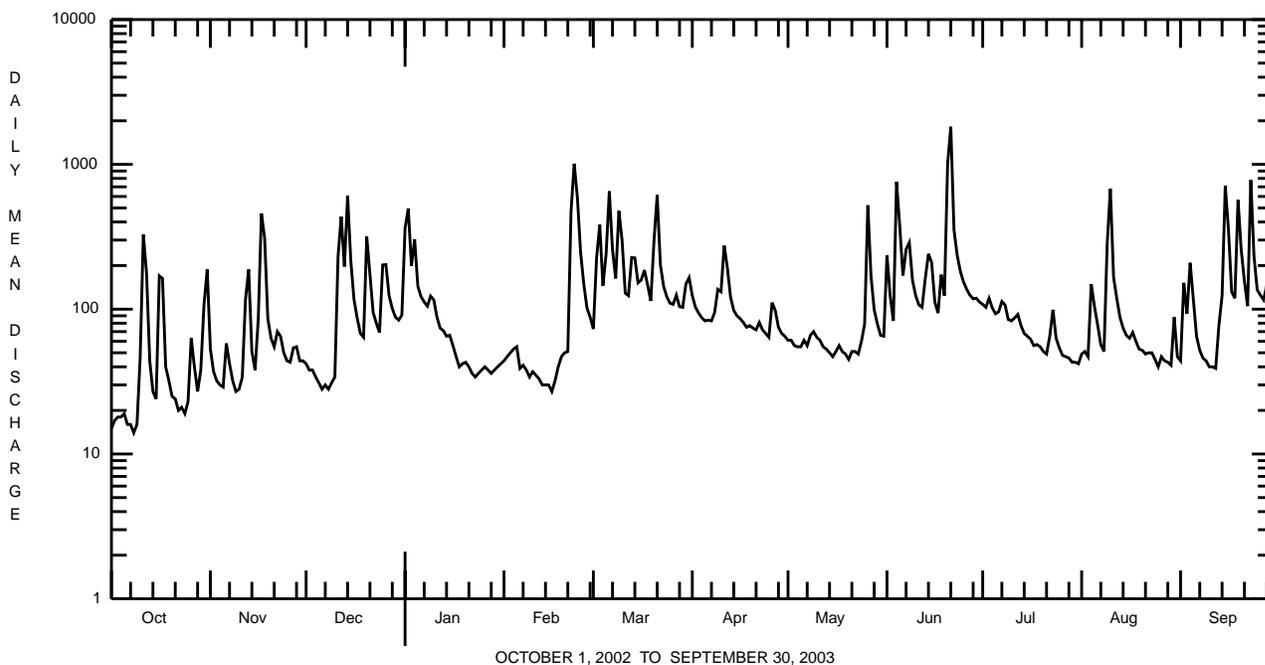


CHRISTINA RIVER BASIN

01480617 WEST BRANCH BRANDYWINE CREEK AT MODENA, PA--Continued

SUMMARY STATISTICS	FOR 2002 CALENDAR YEAR		FOR 2003 WATER YEAR		WATER YEARS 1970 - 2003	
ANNUAL TOTAL	17034.5		45448			
ANNUAL MEAN	46.7		125		84.9	
HIGHEST ANNUAL MEAN					130	1979
LOWEST ANNUAL MEAN					29.7	2002
HIGHEST DAILY MEAN	605	Dec 14	1820	Jun 21	4010	Jun 22 1972
LOWEST DAILY MEAN	7.4	Aug 23	14	Oct 8	7.4	Aug 23 2002
ANNUAL SEVEN-DAY MINIMUM	8.1	Aug 17	17	Oct 3	8.1	Aug 17 2002
MAXIMUM PEAK FLOW			4660	Jun 21	a9600	Jun 29 1973
MAXIMUM PEAK STAGE			9.35	Jun 21	12.47	Jun 29 1973
ANNUAL RUNOFF (CFSM)	0.85		2.26		1.54	
ANNUAL RUNOFF (INCHES)	11.52		30.74		20.97	
10 PERCENT EXCEEDS	94		244		146	
50 PERCENT EXCEEDS	30		74		56	
90 PERCENT EXCEEDS	13		34		25	

a From rating curve extended above 7,800 ft³/s on basis of slope-area measurement at gage height 11.48 ft.



CHRISTINA RIVER BASIN

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.

INSTRUMENTATION.--Water-quality monitor May 1971 to October 1977, August 1981 to current year.**REMARKS.**--Specific conductance record rated good except for periods Nov. 3-5 and Aug. 22-26, which are poor. pH record rated good except for period Apr. 7-21, which is fair. Water temperature record rated good. Dissolved oxygen record rated fair except for periods July 16 to Aug. 4 and Aug. 15 to Sept. 9, which are poor. Data collection discontinued during winter months since 1981 water year. Other interruptions in the record were due to malfunctions of the equipment.**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.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

Date	Time	Agency col- lecting sample, code (00027)	Agency ana- lyzing sample, code (00028)	Instan- taneous dis- charge, cfs (00061)	Dis- solved oxygen, mg/L (00300)	pH, water, unfltrd std units (00400)	Specif. conduc- tance, wat unf µS/cm 25 degC (00095)	Temper- ature, deg C (00010)	Fecal coli- form, M-FC 0.7µ MF col/ 100 mL (31625)
MAR 2003									
10...	1345	1028	1028	196	13.3	7.7	223	4.1	125
20...	1215	1028	1028	122	12.7	8.0	302	7.2	220
APR									
07...	1245	1028	1028	81	13.1	8.4	299	7.0	160
21...	1130	1028	1028	71	13.2	8.8	290	12.3	58
MAY									
01...	1310	1028	1028	61	13.4	9.1	315	16.6	157
12...	1615	1028	1028	54	10.0	8.4	313	16.6	467
21...	1425	1028	1028	51	9.9	7.8	325	15.4	1250
JUN									
05...	1420	1028	1028	329	9.6	7.6	218	16.1	5600
12...	1200	1028	1028	105	9.1	7.9	304	19.4	560
26...	0750	1028	1028	142	9.1	7.5	301	19.4	460
JUL									
08...	1210	1028	1028	109	8.7	7.6	298	22.7	2500
16...	1105	1028	1028	64	8.7	7.6	322	21.4	1140
23...	1250	1028	1028	102	8.3	7.7	306	22.1	2700
AUG									
06...	1225	1028	1028	76	8.1	7.7	305	22.2	E700
27...	1415	1028	1028	41	11.0	8.4	345	22.7	1470
SEP									
09...	1305	1028	1028	43	9.3	8.3	359	20.7	2000
22...	1350	1028	1028	105	9.0	7.7	331	19.4	1520

CHRISTINA RIVER BASIN

01480617 WEST BRANCH BRANDYWINE CREEK AT MODENA, PA--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

Date	Time	Agency collecting sample, code (00027)	Agency analyzing sample, code (00028)	Instantaneous discharge, cfs (00061)	Dissolved oxygen, mg/L (00300)	pH, water, unfltrd std units (00400)	Specific conductance, wat unf 25 degC (00095)	Temperature, water, deg C (00010)	Calcium water, fltrd, mg/L (00915)	Magnesium, water, fltrd, mg/L (00925)	Potassium, water, fltrd, mg/L (00935)	Sodium, water, fltrd, mg/L (00930)	ANC, wat unf incrm. titr., field, mg/L as CaCO3 (00419)	
OCT 2002	21...	1028	80020	25	12.5	8.1	423	13.3	39.1	11.4	7.30	25.9	66	
Date	Chloride, water, fltrd, mg/L (00940)	Silica, water, fltrd, mg/L (00955)	Sulfate, water, fltrd, mg/L (00945)	Ammonia water, fltrd, mg/L as N (00608)	Nitrite + nitrate water, fltrd, mg/L as N (00631)	Nitrite water, fltrd, mg/L as N (00613)	Orthophosphate, water, fltrd, mg/L as P (00671)	Aluminum, water, fltrd, µg/L (01106)	Arsenic water, fltrd, µg/L (01000)	Boron, water, fltrd, µg/L (01020)	Cadmium, water, fltrd, µg/L (01025)	Chromium, water, fltrd, µg/L (01030)	Copper, water, fltrd, µg/L (01040)	
OCT 2002	21...	41.2	13.4	47.9	<.04	4.21	.009	.11	30	<2	110	<.2	9.1	3.0
Date	Iron, water, fltrd, µg/L (01046)	Lead, water, fltrd, µg/L (01049)	Manganese, water, fltrd, µg/L (01056)	Mercury water, fltrd, µg/L (71890)	Molybdenum, water, fltrd, µg/L (01060)	Nickel, water, fltrd, µg/L (01065)	Zinc, water, fltrd, µg/L (01090)							
OCT 2002	21...	47	<1	40.0	<.02	45.8	3.3	<24						

CHRISTINA RIVER BASIN

01480617 WEST BRANCH BRANDYWINE CREEK AT MODENA, PA--Continued

BIOLOGICAL DATA
BENTHIC MACROINVERTEBRATESREMARKS.--Samples were collected using a Hess sampler with a mesh size of 500 µm. Each sample covered a total area of 2.4 m².

Date	10/21/02
Benthic Macroinvertebrate	Count
Platyhelminthes	
Turbellaria (FLATWORMS)	
Tricladida	
Planariidae	321
Nematoda (NEMATODES)	5
Nemertea (PROBOSAS WORMS)	
Enopla	
Hoplonemertea	
Tetrastemmatidae	
<u>Prostoma</u> sp	48
Mollusca	
Gastropoda (SNAILS)	
Basommatophora	
Ancylidae	
<u>Ferrissia</u> sp	12
Physidae	
<u>Physa</u> sp	1
Mesogastropoda	
Valvatidae	
<u>Valvata</u> sp	1
Bivalvia (CLAMS)	
Veneroida	
Sphaeriidae	
<u>Pisidium</u> sp	4
Annelida	
Oligochaeta (AQUATIC EARTHWORMS)	
Lumbriculida	
Lumbriculidae	4
Arthropoda	
Acariformes	
Hydrachnidia (WATER MITES)	18
Insecta	
Ephemeroptera (MAYFLIES)	
Ephemerellidae	
<u>Serratella</u> sp	6
Heptageniidae	
<u>Stenonema</u> sp	7
Trichoptera (CADDISFLIES)	
Hydropsychidae	
<u>Cheumatopsyche</u> sp	756
<u>Hydropsyche</u> sp	467
Hydroptilidae	
<u>Leucotrichia</u> sp	360
Philopotamidae	
<u>Chimarra</u> sp	6
Polycentropodidae	
<u>Polycentropus</u> sp	1
Lepidoptera (MOTHS AND BUTTERFLIES)	
Pyralidae	
<u>Petrophila</u> sp	12

CHRISTINA RIVER BASIN

01480617 WEST BRANCH BRANDYWINE CREEK AT MODENA, PA--Continued

BIOLOGICAL DATA
BENTHIC MACROINVERTEBRATES--Continued

Date	10/21/02
Benthic Macroinvertebrate	Count
Coleoptera (BEETLES)	
Elmidae (RIFFLE BEETLES)	
<u>Ancyronyx</u> sp	1
<u>Macronychus</u> sp	1
<u>Optioservus</u> sp	48
<u>Oulimnius</u> sp	8
<u>Stenelmis</u> sp	93
Hydrophilidae	
<u>Berosus</u> sp	34
Psephenidae (WATER PENNIES)	
<u>Psephenus</u> sp	4
Diptera (TRUE FLIES)	
Chironomidae (MIDGES)	
	93
Empididae (DANCE FLIES)	
<u>Hemerodromia</u> sp	8
Simuliidae	
<u>Simulium</u> sp	1
Tipulidae (CRANE FLIES)	
<u>Antocha</u> sp	4
Total organisms	2324
Total number of taxa	28

CHRISTINA RIVER BASIN

01480617 WEST BRANCH BRANDYWINE CREEK AT MODENA, PA--Continued

SPECIFIC CONDUCTANCE, MICROSIEMENS PER CENTIMETER AT 25° CELSIUS, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
1	487	434	459	342	293	316	332	305	321	---	---	---
2	472	408	444	384	342	361	357	310	336	---	---	---
3	453	374	427	394	319	367	---	---	---	---	---	---
4	429	284	383	398	307	369	---	---	---	---	---	---
5	437	396	426	412	317	391	---	---	---	---	---	---
6	446	403	427	398	286	328	---	---	---	---	---	---
7	473	433	450	366	318	344	---	---	---	---	---	---
8	491	458	478	394	357	376	---	---	---	---	---	---
9	489	455	477	409	371	392	---	---	---	---	---	---
10	490	199	412	409	380	398	---	---	---	---	---	---
11	284	191	242	407	368	389	---	---	---	---	---	---
12	344	242	302	385	242	293	---	---	---	---	---	---
13	428	344	386	293	---	---	---	---	---	---	---	---
14	452	423	437	339	293	311	---	---	---	---	---	---
15	463	438	453	366	334	347	---	---	---	---	---	---
16	468	---	---	370	243	318	---	---	---	---	---	---
17	335	---	---	243	---	---	---	---	---	---	---	---
18	388	335	358	257	---	---	---	---	---	---	---	---
19	428	388	405	---	---	---	---	---	---	---	---	---
20	454	417	433	---	---	---	---	---	---	---	---	---
21	453	421	441	---	---	---	---	---	---	---	---	---
22	462	423	444	---	---	---	---	---	---	---	---	---
23	463	426	447	336	317	328	---	---	---	---	---	---
24	461	432	447	352	327	339	---	---	---	---	---	---
25	460	418	441	349	330	341	---	---	---	---	---	---
26	425	253	318	347	325	336	---	---	---	---	---	---
27	398	305	352	352	293	332	---	---	---	---	---	---
28	402	366	387	331	305	318	---	---	---	---	---	---
29	417	271	372	341	307	324	---	---	---	---	---	---
30	313	266	289	345	308	326	---	---	---	---	---	---
31	293	243	274	---	---	---	---	---	---	---	---	---
MONTH	491	191	400	412	242	345	357	305	328	---	---	---
	FEBRUARY			MARCH			APRIL			MAY		
1	---	---	---	373	338	350	298	275	285	333	310	316
2	---	---	---	424	191	331	304	282	291	320	306	312
3	---	---	---	255	218	231	308	291	297	322	307	314
4	---	---	---	293	242	274	314	298	306	328	312	321
5	---	---	---	321	234	286	313	297	302	327	306	316
6	---	---	---	236	187	204	303	287	294	323	270	306
7	---	---	---	266	190	234	360	296	313	334	309	317
8	---	---	---	297	259	277	318	293	301	334	284	306
9	---	---	---	267	154	228	304	259	280	316	292	305
10	---	---	---	248	152	207	285	263	273	310	298	304
11	---	---	---	295	248	276	286	203	246	320	302	311
12	---	---	---	301	227	286	260	230	239	326	297	311
13	---	---	---	260	209	246	288	260	272	325	306	317
14	---	---	---	253	217	236	293	279	284	---	---	---
15	---	---	---	275	237	258	311	288	294	347	307	331
16	---	---	---	265	237	252	315	291	302	347	315	331
17	---	---	---	251	233	245	308	286	301	328	306	318
18	---	---	---	274	249	262	315	300	306	332	312	323
19	---	---	---	297	268	279	310	291	299	326	301	315
20	---	---	---	306	188	272	311	290	301	332	303	318
21	---	---	---	238	188	210	308	293	298	340	298	324
22	---	---	---	272	235	253	307	275	293	351	312	333
23	---	---	---	285	270	276	312	296	302	352	316	333
24	---	---	---	293	279	285	318	302	309	318	295	305
25	---	---	---	303	283	290	321	303	311	311	250	292
26	---	---	---	304	279	293	321	262	282	270	158	197
27	312	293	301	299	270	283	290	262	274	258	199	230
28	509	310	370	301	289	295	301	280	288	290	258	271
29	---	---	---	298	272	290	312	288	299	303	284	293
30	---	---	---	272	245	256	319	299	308	318	299	307
31	---	---	---	283	237	260	---	---	---	334	216	316
MONTH	509	293	336	424	152	265	360	203	292	352	158	306

CHRISTINA RIVER BASIN

01480617 WEST BRANCH BRANDYWINE CREEK AT MODENA, PA--Continued

SPECIFIC CONDUCTANCE, MICROSIEMENS PER CENTIMETER AT 25° CELSIUS, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

DAY	MAX	MIN	MEAN									
1	279	206	234	316	302	309	375	311	358	372	343	357
2	281	239	257	327	278	311	362	327	346	343	209	250
3	296	263	282	329	264	309	368	346	356	299	273	283
4	276	165	196	321	307	315	359	119	272	301	193	256
5	248	185	214	320	300	312	331	173	290	305	257	281
6	---	---	---	317	300	309	330	276	303	336	305	318
7	---	---	---	318	213	298	343	323	334	354	329	340
8	---	---	---	307	278	290	353	327	342	357	338	349
9	---	---	---	---	---	---	354	114	286	372	332	353
10	303	280	290	333	309	319	---	---	---	378	352	365
11	303	281	296	321	306	316	---	---	---	383	355	367
12	308	301	304	319	196	302	310	249	284	380	346	365
13	309	173	285	329	297	312	327	309	318	356	214	310
14	236	173	209	328	313	322	---	---	---	294	225	270
15	254	195	230	331	314	324	---	---	---	301	98	199
16	285	253	267	341	317	332	361	339	349	281	171	228
17	297	280	288	345	322	335	346	320	331	311	271	288
18	296	235	259	360	329	344	344	324	336	---	266	---
19	287	271	279	351	328	338	357	328	341	---	---	---
20	282	125	228	346	324	336	359	334	344	302	240	277
21	---	---	---	346	327	337	363	339	349	325	302	312
22	---	---	---	346	203	331	365	255	318	337	319	328
23	279	---	---	329	169	287	362	230	285	332	144	197
24	291	278	284	340	325	334	365	260	327	275	169	234
25	302	286	294	349	330	338	373	249	295	302	275	290
26	310	299	304	354	324	340	376	274	347	304	288	297
27	312	302	308	354	328	342	360	335	347	306	250	298
28	311	304	308	365	334	353	369	346	355	315	229	278
29	312	304	308	370	348	362	370	350	361	306	280	295
30	310	299	304	389	351	367	371	154	312	324	302	311
31	---	---	---	395	346	373	358	280	336	---	---	---
MONTH	312	125	271	395	169	327	376	114	327	383	98	296

PH, WATER, WHOLE, FIELD, STANDARD UNITS, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

DAY	MAX	MIN	MEDIAN									
1	8.5	7.5	7.9	7.6	7.4	7.4	7.7	7.4	7.4	---	---	---
2	8.4	7.4	7.9	7.7	7.4	7.5	7.6	7.3	7.4	---	---	---
3	8.4	7.3	8.0	7.7	7.4	7.5	---	---	---	---	---	---
4	7.9	7.0	7.3	7.7	7.4	7.5	---	---	---	---	---	---
5	8.0	7.2	7.5	7.7	7.4	7.5	---	---	---	---	---	---
6	8.1	7.3	7.6	7.6	7.3	7.4	---	---	---	---	---	---
7	8.2	7.3	7.7	7.7	7.3	7.4	---	---	---	---	---	---
8	8.3	7.4	7.9	7.7	7.3	7.4	---	---	---	---	---	---
9	8.1	7.4	7.9	7.9	7.3	7.5	---	---	---	---	---	---
10	7.8	7.4	7.5	7.9	7.4	7.5	---	---	---	---	---	---
11	7.6	7.3	7.4	7.5	7.3	7.4	---	---	---	---	---	---
12	7.4	7.3	7.3	7.4	7.3	7.3	---	---	---	---	---	---
13	7.5	7.3	7.4	---	---	---	---	---	---	---	---	---
14	7.8	7.4	7.6	7.8	7.6	7.6	---	---	---	---	---	---
15	7.8	7.5	7.6	8.0	7.6	7.7	---	---	---	---	---	---
16	---	---	---	7.8	7.6	7.6	---	---	---	---	---	---
17	---	---	---	---	---	---	---	---	---	---	---	---
18	7.7	7.4	7.5	---	---	---	---	---	---	---	---	---
19	7.7	7.4	7.5	---	---	---	---	---	---	---	---	---
20	7.8	7.4	7.5	---	---	---	---	---	---	---	---	---
21	7.9	7.4	7.6	---	---	---	---	---	---	---	---	---
22	7.9	7.4	7.6	---	---	---	---	---	---	---	---	---
23	8.1	7.4	7.7	7.8	7.6	7.6	---	---	---	---	---	---
24	7.8	7.4	7.6	7.8	7.5	7.6	---	---	---	---	---	---
25	7.7	7.3	7.5	7.7	7.5	7.5	---	---	---	---	---	---
26	7.6	7.4	7.5	7.8	7.5	7.5	---	---	---	---	---	---
27	7.9	7.3	7.5	7.7	7.4	7.5	---	---	---	---	---	---
28	7.9	7.4	7.6	7.7	7.4	7.5	---	---	---	---	---	---
29	7.8	7.3	7.5	7.6	7.4	7.4	---	---	---	---	---	---
30	7.4	7.4	7.4	7.6	7.3	7.4	---	---	---	---	---	---
31	7.4	7.4	7.4	---	---	---	---	---	---	---	---	---
MAX	8.5	7.5	8.0	8.0	7.6	7.7	7.7	7.4	7.4	---	---	---
MIN	7.4	7.0	7.3	7.4	7.3	7.3	7.6	7.3	7.4	---	---	---

CHRISTINA RIVER BASIN

01480617 WEST BRANCH BRANDYWINE CREEK AT MODENA, PA--Continued

PH, WATER, WHOLE, FIELD, STANDARD UNITS, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

DAY	MAX	MIN	MEDIAN	MAX	MIN	MEDIAN	MAX	MIN	MEDIAN	MAX	MIN	MEDIAN
	FEBRUARY			MARCH			APRIL			MAY		
1	---	---	---	7.9	7.7	7.8	9.1	7.8	8.1	9.3	7.6	7.9
2	---	---	---	8.3	7.7	7.8	9.4	7.7	8.2	9.2	7.4	8.1
3	---	---	---	7.8	7.7	7.7	9.6	7.7	8.4	9.3	7.4	8.0
4	---	---	---	7.8	7.7	7.7	9.0	7.7	7.9	9.2	7.4	8.1
5	---	---	---	8.0	7.6	7.7	9.0	7.7	8.0	8.8	7.5	7.7
6	---	---	---	7.8	7.6	7.6	9.4	7.8	8.6	8.8	7.5	7.7
7	---	---	---	7.8	7.6	7.6	8.8	7.7	7.9	9.1	7.4	7.8
8	---	---	---	7.8	7.6	7.7	8.9	7.6	7.8	8.3	7.3	7.5
9	---	---	---	7.8	7.6	7.7	8.7	7.6	7.8	7.8	7.4	7.5
10	---	---	---	7.8	7.6	7.7	9.2	7.6	8.2	8.3	7.4	7.6
11	---	---	---	7.9	7.7	7.7	8.6	7.8	7.8	8.0	7.4	7.5
12	---	---	---	8.0	7.6	7.7	8.7	7.7	7.8	8.5	7.3	7.6
13	---	---	---	7.9	7.6	7.7	9.2	7.7	8.2	8.7	7.5	7.8
14	---	---	---	7.9	7.6	7.7	9.4	7.8	8.2	---	7.5	---
15	---	---	---	7.9	7.6	7.7	9.5	7.8	8.4	8.6	7.5	7.9
16	---	---	---	8.0	7.6	7.7	9.7	7.8	8.6	7.9	7.5	7.6
17	---	---	---	8.1	7.6	7.6	9.5	7.8	8.5	8.3	7.5	7.6
18	---	---	---	8.3	7.6	7.7	8.9	7.9	8.2	8.4	7.5	7.7
19	---	---	---	8.4	7.6	7.8	9.7	8.0	8.6	8.4	7.5	7.7
20	---	---	---	8.2	7.6	7.7	9.7	8.0	8.7	8.6	7.4	7.8
21	---	---	---	7.7	7.6	7.6	9.4	7.9	8.4	8.0	7.4	7.6
22	---	---	---	8.0	7.6	7.7	9.1	7.6	7.9	8.2	7.5	7.7
23	---	---	---	8.2	7.6	7.8	9.4	7.6	8.3	8.1	7.5	7.6
24	---	---	---	8.5	7.6	7.8	9.3	7.7	8.4	8.0	7.5	7.6
25	---	---	---	8.8	7.7	7.9	9.5	7.6	8.3	7.8	7.5	7.6
26	---	---	---	9.0	7.7	7.8	8.3	7.6	7.8	7.8	7.4	7.4
27	7.8	7.7	7.8	9.0	7.7	8.0	9.3	7.7	8.2	7.5	7.4	7.4
28	7.9	7.7	7.8	9.1	7.7	8.0	9.5	7.6	8.2	7.7	7.4	7.5
29	---	---	---	9.0	7.7	7.8	9.4	7.7	8.2	7.8	7.5	7.6
30	---	---	---	8.5	7.7	7.8	9.5	7.7	8.3	8.0	7.5	7.6
31	---	---	---	8.9	7.7	8.0	---	---	---	7.9	7.5	7.6
MAX	7.9	7.7	7.8	9.1	7.7	8.0	9.7	8.0	8.7	9.3	7.6	8.1
MIN	7.8	7.7	7.8	7.7	7.6	7.6	8.3	7.6	7.8	7.5	7.3	7.4
	JUNE			JULY			AUGUST			SEPTEMBER		
1	7.8	7.5	7.6	8.7	7.5	7.8	7.9	7.4	7.6	7.9	7.6	7.7
2	7.8	7.5	7.6	8.8	7.5	7.8	7.9	7.4	7.6	7.6	7.5	7.5
3	7.8	7.5	7.6	8.3	7.4	7.6	7.8	7.5	7.6	7.6	7.5	7.5
4	7.8	7.4	7.5	8.6	7.5	7.8	8.2	7.4	7.6	7.7	7.4	7.5
5	7.6	7.4	7.5	8.4	7.4	7.6	8.1	7.5	7.6	7.6	7.4	7.5
6	---	---	---	8.2	7.4	7.6	7.8	7.6	7.7	7.8	7.5	7.7
7	---	---	---	8.0	7.3	7.4	7.9	7.6	7.7	8.1	7.6	7.7
8	---	---	---	7.9	7.3	7.5	8.0	7.6	7.7	8.3	7.6	7.8
9	---	---	---	8.0	---	---	7.8	7.4	7.6	8.8	7.6	7.9
10	7.8	7.5	7.6	7.8	7.5	7.6	---	---	---	8.9	7.7	8.1
11	7.8	7.5	7.6	7.9	7.5	7.6	---	---	---	9.1	7.7	8.2
12	8.0	7.5	7.6	7.9	7.5	7.7	7.8	7.6	7.6	9.0	7.6	8.0
13	8.1	7.2	7.5	7.8	7.5	7.6	7.8	7.6	7.6	7.9	7.6	7.7
14	7.6	7.2	7.4	7.9	7.5	7.6	---	---	---	7.9	7.5	7.6
15	7.6	7.3	7.4	8.0	7.5	7.7	8.2	---	---	7.7	7.3	7.4
16	7.8	7.4	7.6	8.1	7.5	7.6	7.9	7.6	7.7	7.5	7.3	7.4
17	8.0	7.5	7.7	8.0	7.5	7.7	8.2	7.6	7.7	7.8	7.5	7.6
18	7.9	7.5	7.6	7.9	7.5	7.7	8.3	7.6	7.8	7.6	7.6	7.6
19	8.0	7.6	7.7	8.1	7.5	7.7	8.6	7.6	7.8	---	---	---
20	7.7	7.3	7.6	8.0	7.6	7.7	8.8	7.5	7.8	7.6	7.5	7.5
21	---	---	---	8.1	7.5	7.7	8.9	7.5	8.0	7.7	7.5	7.6
22	---	---	---	8.0	7.5	7.6	8.9	7.4	7.9	7.8	7.5	7.6
23	---	---	---	8.3	7.5	7.7	8.9	7.4	8.0	8.1	7.3	7.5
24	7.6	7.5	7.6	8.0	7.5	7.7	9.0	7.5	8.1	7.6	7.4	7.6
25	7.6	7.5	7.6	7.9	7.6	7.7	9.1	7.5	8.2	7.7	7.6	7.6
26	7.7	7.4	7.5	7.9	7.5	7.6	9.0	7.3	7.8	7.8	7.6	7.6
27	7.9	7.4	7.6	8.0	7.5	7.6	8.9	7.3	7.9	7.8	7.6	7.6
28	8.3	7.5	7.7	7.9	7.4	7.6	9.1	7.5	8.2	7.8	7.6	7.6
29	8.6	7.6	7.8	7.9	7.5	7.7	9.0	7.5	8.0	7.9	7.6	7.7
30	8.8	7.5	7.8	8.1	7.5	7.7	8.7	7.5	7.6	8.0	7.7	7.8
31	---	---	---	7.9	7.5	7.6	8.1	7.5	7.8	---	---	---
MAX	8.8	7.6	7.8	8.8	7.6	7.8	9.1	7.6	8.2	9.1	7.7	8.2
MIN	7.6	7.2	7.4	7.8	7.3	7.4	7.8	7.3	7.6	7.5	7.3	7.4

CHRISTINA RIVER BASIN

01480617 WEST BRANCH BRANDYWINE CREEK AT MODENA, PA--Continued

WATER TEMPERATURE, DEGREES CELSIUS, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
1	20.5	17.0	19.0	9.0	7.0	8.0	5.5	3.0	4.0	---	---	---
2	21.5	18.5	20.5	9.5	7.5	8.0	4.5	3.0	3.5	---	---	---
3	22.5	19.5	21.0	9.0	6.5	7.5	---	---	---	---	---	---
4	22.0	20.5	21.0	9.5	7.5	8.5	---	---	---	---	---	---
5	23.0	20.5	21.5	9.5	8.0	9.0	---	---	---	---	---	---
6	21.0	18.0	19.5	10.5	9.0	9.5	---	---	---	---	---	---
7	20.0	18.5	19.0	9.5	8.0	9.0	---	---	---	---	---	---
8	18.5	16.0	17.0	10.0	7.0	8.5	---	---	---	---	---	---
9	16.5	15.0	16.0	11.0	8.5	9.5	---	---	---	---	---	---
10	17.5	16.5	17.0	13.5	10.0	11.5	---	---	---	---	---	---
11	17.0	16.0	16.0	16.0	13.5	15.0	---	---	---	---	---	---
12	17.0	16.0	16.5	14.5	12.0	13.0	---	---	---	---	---	---
13	17.5	16.0	17.0	---	---	---	---	---	---	---	---	---
14	17.0	14.5	15.5	10.5	8.5	9.5	---	---	---	---	---	---
15	14.5	12.5	13.5	11.0	9.0	10.0	---	---	---	---	---	---
16	---	---	---	10.0	9.0	10.0	---	---	---	---	---	---
17	---	---	---	---	---	---	---	---	---	---	---	---
18	14.0	12.0	13.0	---	---	---	---	---	---	---	---	---
19	13.5	11.5	12.5	---	---	---	---	---	---	---	---	---
20	14.0	13.0	13.5	---	---	---	---	---	---	---	---	---
21	14.0	12.0	13.0	---	---	---	---	---	---	---	---	---
22	13.0	10.5	12.0	---	---	---	---	---	---	---	---	---
23	13.0	10.5	12.0	9.0	6.5	7.5	---	---	---	---	---	---
24	12.5	11.0	11.5	8.0	6.0	7.0	---	---	---	---	---	---
25	11.5	10.5	11.0	8.5	6.0	7.0	---	---	---	---	---	---
26	13.5	11.0	12.0	9.0	7.0	8.0	---	---	---	---	---	---
27	13.5	11.0	12.0	8.0	5.5	7.0	---	---	---	---	---	---
28	12.5	11.0	11.5	5.5	4.0	5.0	---	---	---	---	---	---
29	11.0	9.0	10.0	4.5	3.5	4.0	---	---	---	---	---	---
30	9.0	7.5	8.0	6.0	4.5	5.0	---	---	---	---	---	---
31	8.5	7.0	7.5	---	---	---	---	---	---	---	---	---
MONTH	23.0	7.0	14.8	16.0	3.5	8.6	5.5	3.0	3.8	---	---	---
	FEBRUARY			MARCH			APRIL			MAY		
1	---	---	---	4.0	3.5	4.0	8.0	5.5	7.0	18.5	14.0	16.5
2	---	---	---	5.5	2.5	4.0	13.0	7.0	10.0	19.0	16.0	17.5
3	---	---	---	2.5	0.5	1.5	13.5	9.5	12.0	17.5	15.0	16.0
4	---	---	---	4.0	0.0	2.0	12.0	9.0	10.5	15.5	14.0	14.5
5	---	---	---	6.0	3.0	4.0	9.0	8.5	9.0	14.0	11.5	12.0
6	---	---	---	3.0	1.0	2.0	11.0	7.0	9.0	13.5	11.0	12.0
7	---	---	---	4.0	0.5	2.5	10.0	6.0	7.0	18.5	12.5	15.5
8	---	---	---	6.5	2.0	4.0	6.5	5.5	6.0	17.5	16.0	16.5
9	---	---	---	6.0	2.0	4.0	6.5	5.5	6.0	16.5	14.5	15.0
10	---	---	---	4.5	1.0	2.5	8.5	6.0	7.0	16.5	13.5	15.0
11	---	---	---	4.0	1.0	2.5	8.0	6.0	7.0	17.5	15.0	16.0
12	---	---	---	6.5	3.5	4.5	12.5	6.5	9.5	17.0	15.0	16.0
13	---	---	---	7.0	4.0	5.5	13.5	8.5	11.0	15.0	13.5	14.0
14	---	---	---	6.5	3.0	4.5	13.5	8.5	11.0	---	---	---
15	---	---	---	8.0	3.5	5.5	16.0	10.0	13.0	15.5	12.5	14.0
16	---	---	---	10.0	4.5	7.5	17.5	13.0	15.5	14.0	12.5	13.5
17	---	---	---	11.0	7.5	9.0	16.5	10.5	13.0	13.0	11.5	12.5
18	---	---	---	11.5	8.0	9.5	10.5	8.5	9.0	13.0	11.5	12.0
19	---	---	---	10.0	7.5	8.5	13.5	9.0	10.5	16.5	10.5	13.5
20	---	---	---	7.5	6.0	6.5	14.5	9.5	12.0	17.5	12.5	15.0
21	---	---	---	8.5	6.0	7.0	14.0	11.0	12.5	16.0	14.0	15.0
22	---	---	---	11.5	7.5	9.5	14.5	12.0	13.5	14.5	13.5	14.0
23	---	---	---	11.5	8.0	9.5	13.5	10.0	12.0	14.0	13.0	13.5
24	---	---	---	12.0	8.0	10.0	14.0	9.0	11.5	14.0	13.0	13.5
25	---	---	---	13.0	8.5	10.5	14.5	10.0	12.5	14.0	13.5	13.5
26	---	---	---	12.5	9.5	11.0	14.0	12.5	13.0	14.0	13.0	13.5
27	2.5	1.0	2.0	13.0	8.5	11.0	17.0	12.0	14.0	14.5	12.5	13.5
28	4.5	2.0	3.0	11.5	9.0	10.5	17.5	12.0	14.5	15.5	13.5	14.5
29	---	---	---	13.0	11.0	12.0	16.5	13.5	15.0	17.0	13.0	15.0
30	---	---	---	12.0	8.0	10.0	17.5	13.0	15.0	19.5	14.5	17.0
31	---	---	---	9.0	6.0	7.5	---	---	---	17.5	15.5	16.5
MONTH	4.5	1.0	2.5	13.0	0.0	6.5	17.5	5.5	10.9	19.5	10.5	14.6

CHRISTINA RIVER BASIN

01480617 WEST BRANCH BRANDYWINE CREEK AT MODENA, PA--Continued

WATER TEMPERATURE, DEGREES CELSIUS, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	JUNE			JULY			AUGUST			SEPTEMBER		
1	16.5	14.0	15.5	22.5	18.5	20.5	22.0	20.5	21.0	21.0	19.5	20.5
2	17.0	13.0	15.0	21.5	18.5	20.0	24.0	20.5	22.0	21.5	19.5	20.5
3	15.5	14.0	14.5	20.0	18.5	19.5	24.0	22.0	23.0	19.5	19.0	19.5
4	14.0	13.0	13.0	23.0	18.5	20.5	24.0	21.5	22.5	20.5	19.5	20.0
5	16.0	13.0	14.5	23.5	20.0	21.5	23.5	21.5	22.5	21.0	19.5	20.0
6	---	---	---	24.0	20.0	22.0	23.5	21.0	22.0	20.5	17.5	19.0
7	---	---	---	24.5	20.5	22.5	22.0	21.0	21.5	20.5	17.5	19.0
8	---	---	---	24.0	21.0	22.5	24.0	20.5	22.0	21.0	17.5	19.0
9	---	---	---	23.5	---	---	22.5	21.5	22.0	21.0	18.5	19.5
10	19.5	15.5	17.5	21.5	19.5	20.0	---	---	---	20.0	17.0	18.5
11	19.5	16.5	18.0	22.0	19.0	20.5	---	---	---	20.5	17.0	18.5
12	20.5	17.5	19.0	22.0	19.0	20.5	24.0	22.0	22.5	19.0	18.0	18.5
13	20.5	18.0	19.0	23.0	19.0	21.0	24.0	22.0	23.0	21.0	17.5	18.5
14	22.0	19.0	20.5	22.0	19.0	20.5	---	---	---	21.5	19.0	20.0
15	21.0	19.5	20.5	23.0	19.0	20.5	---	---	---	20.5	20.0	20.5
16	20.5	18.0	19.0	24.0	20.5	22.0	23.0	21.0	21.5	20.5	19.0	20.0
17	19.0	16.0	17.5	23.5	20.0	21.5	23.5	20.5	21.5	19.5	17.0	18.5
18	18.5	16.5	17.5	21.5	19.5	20.0	22.5	20.5	21.5	---	---	---
19	19.5	17.5	18.0	22.5	19.0	20.5	23.5	19.5	21.5	---	---	---
20	19.0	17.0	18.0	22.5	18.5	20.5	23.5	19.5	21.5	20.5	18.5	19.5
21	---	---	---	24.0	19.5	21.5	24.5	20.5	22.0	19.5	18.0	19.0
22	---	---	---	24.0	21.5	22.5	25.0	21.5	23.0	19.5	18.0	18.5
23	19.5	---	---	23.0	21.0	22.0	24.0	21.5	22.5	19.5	19.0	19.5
24	21.0	17.0	19.0	23.5	21.0	22.0	22.0	19.0	20.5	19.0	17.0	18.0
25	21.5	18.0	19.5	24.0	20.0	21.5	22.5	18.5	20.0	19.0	16.0	17.5
26	22.5	19.0	20.5	24.0	20.0	22.0	23.0	20.0	21.0	19.5	18.0	18.5
27	22.5	19.5	21.0	24.5	21.0	22.5	23.0	20.0	21.5	20.5	18.0	19.0
28	21.5	18.5	20.0	23.5	21.5	22.5	24.0	20.5	22.0	19.5	18.0	19.0
29	21.5	18.5	20.0	24.0	20.5	22.0	22.5	20.5	21.5	18.0	16.0	17.0
30	22.0	19.0	20.5	23.5	20.0	21.5	24.5	21.0	22.0	16.5	14.0	15.5
31	---	---	---	22.0	20.5	21.5	22.0	19.5	21.0	---	---	---
MONTH	22.5	13.0	18.2	24.5	18.5	21.3	25.0	18.5	21.8	21.5	14.0	19.0

OXYGEN, DISSOLVED (MG/L), WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
1	11.5	7.4	9.0	12.0	11.0	11.4	12.7	11.1	12.0	---	---	---
2	11.4	7.1	8.8	12.2	11.0	11.5	12.9	11.6	12.3	---	---	---
3	11.4	6.8	8.6	12.6	11.2	12.0	---	---	---	---	---	---
4	8.8	5.7	7.0	12.3	11.7	12.0	---	---	---	---	---	---
5	9.8	6.7	7.8	13.2	11.8	12.2	---	---	---	---	---	---
6	10.6	6.9	8.4	14.2	11.8	12.7	---	---	---	---	---	---
7	10.8	6.8	8.6	13.6	11.8	12.5	---	---	---	---	---	---
8	11.9	7.6	9.3	13.2	11.7	12.3	---	---	---	---	---	---
9	11.5	8.0	9.4	13.4	11.0	12.0	---	---	---	---	---	---
10	9.6	8.0	8.7	12.2	10.0	11.1	---	---	---	---	---	---
11	9.3	8.8	9.1	10.0	9.3	9.6	---	---	---	---	---	---
12	9.3	8.8	9.1	10.5	9.5	10.1	---	---	---	---	---	---
13	9.2	8.5	8.8	10.5	---	---	---	---	---	---	---	---
14	10.0	8.5	9.2	11.3	10.4	10.8	---	---	---	---	---	---
15	10.9	9.0	9.9	11.5	10.3	10.7	---	---	---	---	---	---
16	---	9.2	---	10.6	10.1	10.3	---	---	---	---	---	---
17	---	---	---	---	---	---	---	---	---	---	---	---
18	10.8	9.8	10.3	---	---	---	---	---	---	---	---	---
19	10.9	9.7	10.4	---	---	---	---	---	---	---	---	---
20	11.0	9.7	10.1	---	---	---	---	---	---	---	---	---
21	11.8	9.6	10.4	---	---	---	---	---	---	---	---	---
22	11.8	10.0	10.7	---	---	---	---	---	---	---	---	---
23	12.2	10.0	10.9	11.5	10.5	11.1	---	---	---	---	---	---
24	11.9	9.9	10.7	11.7	10.9	11.2	---	---	---	---	---	---
25	11.7	10.0	10.6	11.8	10.7	11.2	---	---	---	---	---	---
26	11.0	10.2	10.6	11.6	10.6	11.0	---	---	---	---	---	---
27	11.7	10.0	10.7	11.7	10.6	11.2	---	---	---	---	---	---
28	11.8	9.9	10.7	12.6	11.4	12.0	---	---	---	---	---	---
29	12.1	10.1	11.0	12.5	11.6	12.0	---	---	---	---	---	---
30	11.8	11.0	11.5	12.0	11.1	11.5	---	---	---	---	---	---
31	11.8	11.4	11.6	---	---	---	---	---	---	---	---	---
MONTH	12.2	5.7	9.7	14.2	9.3	11.4	12.9	11.1	12.2	---	---	---

CHRISTINA RIVER BASIN

01480617 WEST BRANCH BRANDYWINE CREEK AT MODENA, PA--Continued

OXYGEN, DISSOLVED (MG/L), WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	FEBRUARY			MARCH			APRIL			MAY		
1	---	---	---	13.2	12.3	12.8	14.7	11.2	12.8	13.8	7.9	10.3
2	---	---	---	13.0	11.9	12.3	14.3	9.5	12.0	13.3	7.8	10.0
3	---	---	---	14.0	13.0	13.5	14.0	9.3	11.4	13.5	7.8	10.2
4	---	---	---	14.0	12.2	13.2	13.0	9.3	11.0	13.6	8.4	10.7
5	---	---	---	12.3	11.2	12.0	13.5	10.5	11.6	13.4	9.1	10.9
6	---	---	---	13.6	12.1	12.9	14.5	10.2	12.3	12.9	9.3	10.8
7	---	---	---	14.0	12.6	13.4	14.1	10.2	12.1	13.3	7.7	10.4
8	---	---	---	13.5	11.8	12.7	14.4	11.9	12.8	11.2	7.5	9.2
9	---	---	---	13.1	11.7	12.3	13.8	11.9	12.6	10.1	8.2	9.1
10	---	---	---	13.7	12.7	13.2	14.3	11.2	12.7	11.2	8.5	9.8
11	---	---	---	14.0	12.6	13.3	11.9	11.2	11.6	10.7	8.0	9.3
12	---	---	---	13.0	11.8	12.6	12.1	10.1	11.3	11.1	8.0	9.3
13	---	---	---	12.5	11.4	12.1	13.0	9.8	11.3	11.7	8.7	10.2
14	---	---	---	13.3	12.1	12.6	13.6	9.5	11.4	---	9.3	---
15	---	---	---	13.3	11.3	12.4	13.4	8.6	11.0	12.0	9.1	10.4
16	---	---	---	12.8	10.7	11.8	13.1	8.1	10.3	10.7	9.0	9.8
17	---	---	---	11.9	10.4	11.1	13.3	8.0	10.8	11.9	9.7	10.6
18	---	---	---	12.3	10.2	11.2	13.2	10.3	11.6	12.1	9.9	10.8
19	---	---	---	13.0	10.4	11.7	14.2	9.5	11.8	11.9	8.7	10.5
20	---	---	---	12.8	11.3	11.9	13.9	8.9	11.3	11.3	8.6	9.8
21	---	---	---	12.1	11.3	11.7	13.7	8.9	10.9	10.3	8.3	9.3
22	---	---	---	12.0	10.6	11.3	12.9	8.9	10.3	10.8	9.3	9.9
23	---	---	---	12.3	10.6	11.4	14.0	9.2	11.4	11.0	9.5	10.1
24	---	---	---	12.7	10.4	11.4	14.2	9.3	11.6	10.8	9.6	10.0
25	---	---	---	12.9	10.0	11.4	14.3	8.9	11.3	10.3	9.4	9.8
26	---	---	---	13.1	9.9	11.2	11.4	8.7	10	9.9	9.6	9.8
27	14.0	13.1	13.7	13.3	10.1	11.5	13.1	8.7	10.8	10.2	9.4	9.9
28	13.7	12.4	13.1	13.9	10.1	11.6	13.5	8.2	10.6	10.0	9.3	9.7
29	---	---	---	13.3	9.8	11.0	13.0	8.1	10.4	10.4	8.8	9.7
30	---	---	---	12.7	10.0	11.3	14.0	8.4	10.7	10.1	8.2	9.2
31	---	---	---	14.0	11.5	12.5	---	---	---	10.0	8.4	9.2
MONTH	14.0	12.4	13.4	14.0	9.8	12.1	14.7	8.0	11.4	13.8	7.5	10.0

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	JUNE			JULY			AUGUST			SEPTEMBER		
1	9.8	8.4	9.3	10.3	8.0	9.0	8.3	7.1	7.7	9.3	7.8	8.4
2	10.3	8.9	9.8	10.1	7.9	8.9	8.3	7.3	7.8	8.3	7.7	8.1
3	10.5	9.1	9.8	9.5	7.9	8.6	8.1	7.3	7.6	8.2	7.8	8.0
4	10.2	9.3	9.9	9.7	7.8	8.7	7.9	7.2	7.5	7.9	7.3	7.6
5	9.9	9.4	9.6	9.3	7.6	8.4	8.0	7.4	7.7	7.6	6.9	7.4
6	---	---	---	9.0	7.8	8.3	8.2	7.7	7.9	8.1	7.0	7.6
7	---	---	---	9.0	7.2	8.2	8.4	7.7	8.0	8.4	7.3	7.7
8	---	---	---	9.2	7.8	8.3	8.6	7.7	8.1	8.6	7.0	7.6
9	---	---	---	---	---	---	8.4	7.7	7.9	---	6.9	---
10	9.8	8.6	9.3	9.2	8.1	8.7	---	---	---	---	---	---
11	9.6	8.5	9.0	9.2	8.2	8.7	---	---	---	---	---	---
12	9.7	8.0	8.9	9.2	7.3	8.5	8.3	7.8	8.1	---	---	---
13	9.8	7.9	8.9	8.9	7.7	8.3	8.4	7.8	8.1	---	---	---
14	8.6	6.8	8.1	9.0	7.7	8.3	---	7.8	---	---	---	---
15	8.8	7.7	8.3	8.9	7.6	8.3	---	7.8	---	---	---	---
16	9.3	8.2	8.8	8.9	7.6	8.1	9.0	7.8	8.3	---	---	---
17	10.1	8.6	9.3	9.1	7.8	8.3	9.4	7.9	8.6	9.2	8.6	8.9
18	9.9	8.4	9.3	9.1	7.9	8.5	9.9	7.9	8.8	9.2	---	---
19	10.0	8.8	9.4	9.1	8.0	8.5	10.6	8.1	9.1	---	---	---
20	---	---	---	9.2	7.9	8.5	11.2	8.1	9.3	8.8	8.2	8.5
21	---	---	---	8.9	7.6	8.3	11.8	8.0	9.5	9.0	8.2	8.6
22	---	---	---	8.7	7.3	8.0	11.8	7.7	9.2	9.3	8.4	8.8
23	---	---	---	8.6	7.2	7.9	11.7	7.7	9.3	8.6	8.2	8.5
24	9.5	8.7	9.1	8.5	7.6	8.0	12.4	8.1	9.9	9.2	8.6	8.9
25	9.2	8.4	8.8	8.6	7.6	8.0	12.9	8.3	10.1	9.4	8.6	9.0
26	9.2	8.3	8.7	8.7	7.6	8.0	12.9	7.0	9.4	9.1	8.7	8.9
27	9.1	8.3	8.7	8.6	7.2	7.8	11.8	7.4	9.3	9.2	8.3	8.8
28	9.8	8.5	9.1	8.3	7.2	7.7	12.8	7.6	9.6	9.0	8.3	8.7
29	10.0	8.4	9.2	8.5	7.6	7.9	12.7	7.6	9.3	9.6	8.9	9.2
30	10.2	8.1	9.1	8.6	7.6	8.1	11.3	7.6	8.5	10.3	9.2	9.7
31	---	---	---	8.3	7.6	7.8	9.8	8.0	8.8	---	---	---
MONTH	10.5	6.8	9.1	10.3	7.2	8.3	12.9	7.0	8.6	10.3	6.9	8.4

CHRISTINA RIVER BASIN

01480617 WEST BRANCH BRANDYWINE CREEK AT MODENA, PA--Continued

CROSS-SECTION ANALYSES, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

Date	Time	Agency col- lecting sample, code (00027)	Agency ana- lyzing sample, code (00028)	Instan- taneous dis- charge, cfs (00061)	Loca- tion in X-sect. looking dwnstrm ft from l bank (00009)	Sam- pling depth, feet (00003)	Dis- solved oxygen, mg/L (00300)	pH, water, unfltrd std, units (00400)	Specif. conduc- tance, wat unf µS/cm 25 degC (00095)	Temper- ature, water, deg C (00010)
OCT 2002										
17...	1201	1028	1028	107	5	1	10.7	7.7	290	12.9
17...	1203	1028	1028	--	10	1	10.6	7.7	289	12.8
17...	1204	1028	1028	--	15	1	10.6	7.7	289	12.8
17...	1206	1028	1028	--	20	1	10.5	7.7	289	12.8
17...	1207	1028	1028	--	25	1	10.5	7.7	289	12.8
17...	1209	1028	1028	--	30	1	10.5	7.7	289	12.8
17...	1210	1028	1028	--	35	1	10.5	7.7	289	12.9
17...	1211	1028	1028	--	40	1	10.5	7.7	289	12.8
17...	1212	1028	1028	--	45	1	10.5	7.7	289	12.9
17...	1214	1028	1028	--	50	1	10.5	7.7	289	12.9
17...	1215	1028	1028	--	55	1	10.5	7.7	289	12.8
17...	1216	1028	1028	--	60	1	10.5	7.7	289	12.8
17...	1217	1028	1028	--	65	1	10.4	7.7	289	12.9
17...	1218	1028	1028	--	70	1	10.4	7.7	289	12.9
17...	1219	1028	1028	--	75	1	10.4	7.7	289	12.9
17...	1220	1028	1028	--	80	1	10.4	7.7	288	12.9
17...	1221	1028	1028	--	85	1	10.4	7.7	288	13.0
17...	1222	1028	1028	--	89	0	--	--	--	--