2005 Water Year
CHRISTINA RIVER BASIN
01481000 Brandywine Creek at Chadds Ford, PA

Latitude: 39° 52 ' 11"   Longitude: 075° 35 ' 37"   Hydrologic Unit Code: 02040205
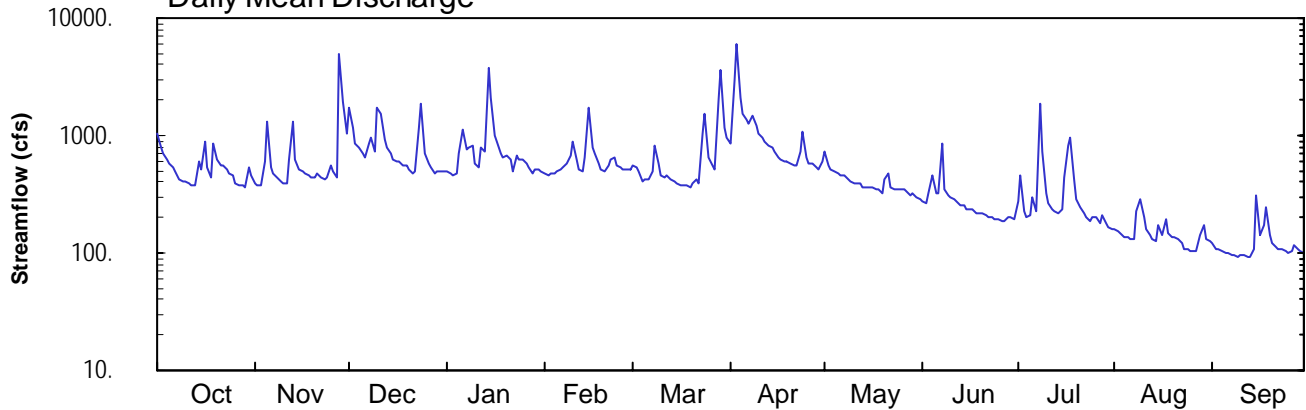
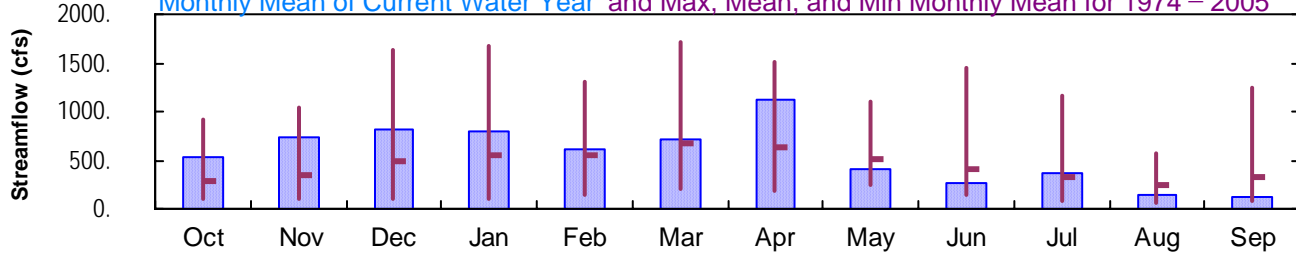Delaware County   Datum: 150.45 feet   Drainage Area: 287. mi^2
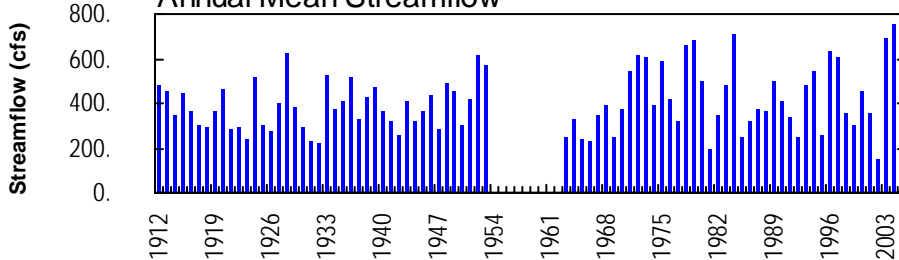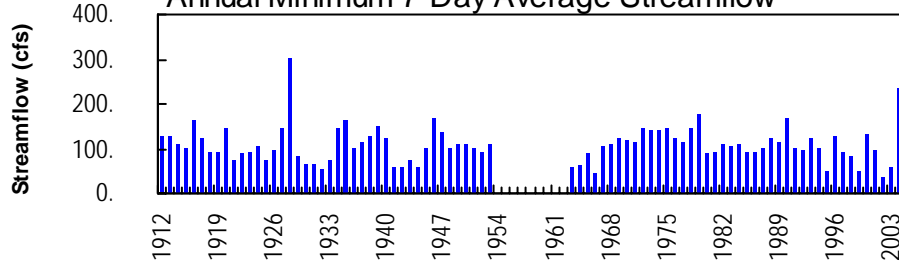
Daily Mean Discharge

Monthly Statistics

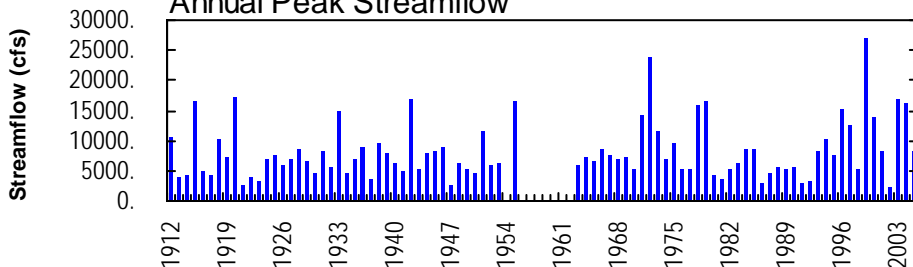Monthly Mean of Current Water Year and Max, Mean, and Min Monthly Mean for 1974 − 2005

Annual Mean Streamflow

Annual Minimum 7-Day Average Streamflow

Annual Peak Streamflow

Looking downstream
01481000--Brandywine Creek at Chadds Ford

CHRISTINA RIVER BASIN

01481000 BRANDYWINE CREEK AT CHADDS FORD, PA
(Pennsylvania Water-Quality Network Station)

LOCATION.--Lat 39°52'11", long 75°35'37", Delaware County, Hydrologic Unit 02040205, on left bank 27 ft upstream from Penn Central Railroad bridge at Chadds Ford, 150 ft upstream from Harvey Run, and 1,200 ft downstream from highway bridge on U.S. Highway 1.

DRAINAGE AREA.--287 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--August 1911 to September 1953, October 1962 to current year. Prior to October 1911, monthly discharge only, published in WSP 1302.

REVISED RECORDS.--WSP 756: Drainage area. WSP 1202: 1917-18(M), 1919-20, 1922-31(M), 1932-33, 1934(M), 1936, 1938(P), 1939(M), 1942, 1944-46(M), WDR PA-98-1: 1996-97 (M).

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 150.45 ft above National Geodetic Vertical Datum of 1929. Prior to May 21, 1927, nonrecording gage at same site and datum.

REMARKS.--No estimated daily discharges. Records good. Flow regulated since November 1973 by Marsh Creek Reservoir (station 01480684) about 17 mi upstream. Satellite and landline telemetry at station.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Aug. 19, 1955, reached a stage of 14.64 ft, gage datum, discharge, about 16,400 ft^3/s.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1040	397	1720	501	471	560	848	743	278	278	157	120
2	804	379	1190	472	464	529	2950	548	270	452	151	110
3	711	372	842	462	468	486	6040	524	323	223	142	108
4	633	601	778	473	468	413	2130	494	463	200	136	104
5	570	1290	716	692	493	416	1530	470	329	208	136	100
6	532	541	661	1120	520	424	1370	456	321	300	132	98
7	500	474	872	754	546	491	1270	454	868	229	130	97
8	426	437	971	782	581	815	1500	433	355	1880	226	95
9	416	411	729	837	682	568	1200	414	305	743	292	94
10	412	398	1700	573	883	462	1050	398	301	328	198	95
11	390	391	1510	529	629	446	959	392	287	266	159	95
12	378	615	925	803	515	465	884	385	267	237	139	91
13	375	1340	783	743	489	428	835	364	259	224	134	93
14	595	615	702	3780	640	404	779	360	252	215	126	109
15	520	521	635	2070	1700	385	729	365	240	239	175	316
16	882	491	600	1020	789	380	639	356	237	436	140	142
17	528	471	591	906	694	374	616	343	232	821	197	172
18	447	453	564	702	577	371	611	344	222	968	149	244
19	852	440	559	639	510	365	592	324	215	425	135	144
20	633	435	523	668	498	395	588	429	217	285	136	123
21	546	485	478	623	561	426	563	472	212	244	133	114
22	548	448	498	493	625	386	549	369	202	222	121	108
23	507	429	1160	679	641	1030	737	351	201	204	109	107
24	477	442	1900	614	560	1520	1080	347	194	188	108	104
25	450	552	709	636	545	662	659	350	191	203	105	101
26	394	488	575	582	523	555	588	350	185	199	102	103
27	383	433	544	533	525	516	570	329	190	183	103	117
28	374	5000	482	477	521	2050	538	311	205	213	141	107
29	369	1910	505	506	---	3580	511	323	200	180	172	103
30	537	1050	504	513	---	1160	594	300	196	166	133	101
31	462	---	501	491	---	948	---	290	---	159	126	---
TOTAL	16691	22309	25427	24673	17118	22010	33509	12388	8217	11118	4543	3615
MEAN	538	744	820	796	611	710	1117	400	274	359	147	120
MAX	1040	5000	1900	3780	1700	3580	6040	743	868	1880	292	316
MIN	369	372	478	462	464	365	511	290	185	159	102	91

CHRISTINA RIVER BASIN

01481000 BRANDYWINE CREEK AT CHADDS FORD, PA--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1974 - 2005, BY WATER YEAR (WY) (<u>SINCE REGULATION</u>)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	292	353	499	541	556	670	631	506	409	332	245	316
MAX	924	1044	1634	1664	1308	1713	1509	1097	1459	1153	562	1237
(WY)	1997	2004	1997	1979	1979	1994	1983	1989	2003	1975	1996	2003
MIN	99.5	105	112	106	144	195	183	249	153	88.8	64.0	80.2
(WY)	2002	2002	1999	1981	2002	1981	2002	1999	1999	2002	2002	2002

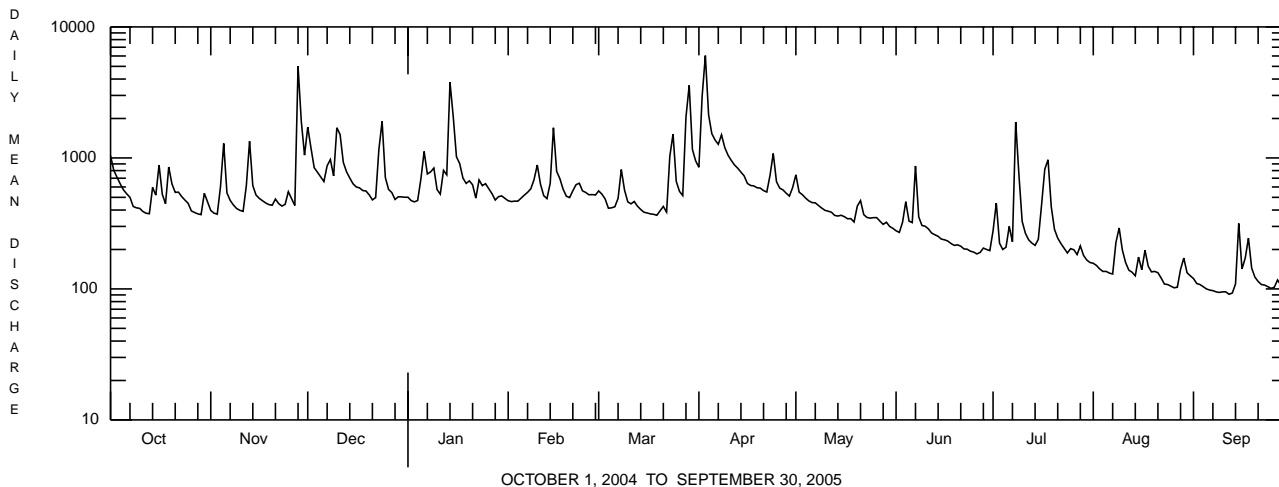| SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1974 - 2005	
ANNUAL TOTAL	241108		201618			
ANNUAL MEAN	659		552		445	
HIGHEST ANNUAL MEAN					754	2004
LOWEST ANNUAL MEAN					152	2002
HIGHEST DAILY MEAN	10100	Sep 29	6040	Apr 3	10600	Jan 26 1978
LOWEST DAILY MEAN	212	Jul 11	91	Sep 12	33	Aug 22 2002
ANNUAL SEVEN-DAY MINIMUM	237	Sep 11	94	Sep 7	36	Aug 17 2002
MAXIMUM PEAK FLOW			8180	Nov 28	**a**26900	Sep 17 1999
MAXIMUM PEAK STAGE			10.36	Nov 28	17.15	Sep 17 1999
INSTANTANEOUS LOW FLOW			90	Sep 12,13	8.4	Sep 13 1980
10 PERCENT EXCEEDS	994		952		834	
50 PERCENT EXCEEDS	502		462		305	
90 PERCENT EXCEEDS	297		133		124	

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1911-1953, 1963-1973, BY WATER YEAR (WY) (<u>PRIOR TO REGULATION</u>)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	219	301	348	444	570	605	530	435	364	309	278	230
MAX	666	625	827	1020	1130	1366	1043	946	1144	802	1089	1050
(WY)	1972	1972	1973	1936	1971	1920	1973	1952	1972	1919	1933	1971
MIN	67.7	98.3	114	145	214	247	226	175	149	91.1	82.1	59.4
(WY)	1964	1942	1966	1966	1934	1931	1963	1926	1963	1963	1930	1932

SUMMARY STATISTICS	WATER YEARS 1911-1953 1963-1973	
ANNUAL MEAN	385	
HIGHEST ANNUAL MEAN	625	1928
LOWEST ANNUAL MEAN	218	1932
HIGHEST DAILY MEAN	9590	Aug 24 1933
LOWEST DAILY MEAN	42	Sep 12 1966
ANNUAL SEVEN-DAY MINIMUM	45	Sep 7 1966
MAXIMUM PEAK FLOW	**b**23800	Jun 22 1972
MAXIMUM PEAK STAGE	16.56	Jun 22 1972
INSTANTANEOUS LOW FLOW	4.9	Oct 2 1942
ANNUAL RUNOFF (CFSM)	1.34	
ANNUAL RUNOFF (INCHES)	18.23	
10 PERCENT EXCEEDS	700	
50 PERCENT EXCEEDS	274	
90 PERCENT EXCEEDS	118	

  a From rating curve extended above 13,200 ft^3/s on basis of area-velocity study at gage height 16.56 ft.
  b From rating curve extended above 9,000 ft^3/s on basis of area-velocity study.

OCTOBER 1, 2004 TO SEPTEMBER 30, 2005

CHRISTINA RIVER BASIN

01481000 BRANDYWINE CREEK AT CHADDS FORD, PA--Continued
(Pennsylvania Water-Quality Network Station)

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1963 to current year.

PERIOD OF DAILY RECORD.--
    SPECIFIC CONDUCTANCE: October 1965 to current year.
    pH: October 1965 to September 1966, December 1971 to current year.
    WATER TEMPERATURES: October 1964 to current year.
    DISSOLVED OXYGEN: October 1971 to current year.
    SUSPENDED-SEDIMENT DISCHARGE: October 1963 to September 1978.

INSTRUMENTATION.--Water-quality monitor since August 1971.

REMARKS.--Specific conductance and water temperature records rated good. pH record rated good except for period Mar. 15-21, which is fair. Dissolved
    oxygen record rated good except for period Oct. 21 to Nov. 8, which is fair, and periods Nov. 8-30, Apr. 19 to May 4, and Aug. 25 to Sept. 30, 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, 689 microsiemens, Mar. 6, 2001; minimum, 42 microsiemens, Nov. 26, 1979.
    pH: Maximum, 9.8, Apr. 9, 1975; minimum, 6.1, Feb. 22, 1976.
    WATER TEMPERATURE: Maximum, 31.0°C, July 4, 2002; minimum, 0.0°C, many days during winters.
    DISSOLVED OXYGEN: Maximum, 17.1 mg/L, Dec. 5, 1976; minimum, 3.0 mg/L, June 21, 1984.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

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 field, std units (00400)	Specif. conduc-tance, wat unf μS/cm 25 degC (00095)	Temper-ature, water, deg C (00010)	Fecal coli-form, M-FC 0.7μ MF col/ 100 mL (31625)
MAR									
08...	1405	1028	1028	780	10.2	--	257	7.2	37
28...	1200	1028	1028	780	11.0	7.5	264	7.7	410
APR									
12...	1330	1028	1028	884	--	7.6	235	12.3	26
26...	1215	1028	1028	589	10.7	7.7	242	11.0	100
MAY									
04...	1130	1028	1028	487	11.5	7.6	250	11.7	110
17...	1120	1028	1028	342	11.8	7.8	255	16.7	100
24...	0945	1028	1028	346	9.9	7.5	270	14.9	100
JUN									
07...	0930	1028	1028	897	7.9	7.3	192	20.3	E7100
20...	0840	1028	1028	289	9.0	7.7	296	18.5	140
27...	1340	1028	1028	188	9.3	8.1	292	24.2	230
JUL									
07...	0830	1028	1028	229	7.2	7.4	274	23.5	240
19...	1030	1028	1028	512	6.9	7.4	244	24.7	2600
28...	1300	1028	1028	208	8.9	8.1	307	26.3	220
AUG									
03...	1000	1028	1028	142	7.2	7.8	316	25.2	E80
25...	0940	1028	1028	105	7.5	7.6	334	20.7	E85
31...	1000	1028	1028	126	6.8	7.5	316	23.8	E22
SEP									
08...	0900	1028	1028	94	7.6	7.7	344	19.6	E19
22...	0830	1028	1028	110	9.9	7.5	338	19.9	46

CHRISTINA RIVER BASIN

01481000 BRANDYWINE CREEK AT CHADDS FORD, PA--Continued
(Pennsylvania Water-Quality Network Station)

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

REMARKS.--Other data for the Water-Quality Network can be found on pages 386-432.

COOPERATION.--Samples were collected as part of the Pennsylvania Department of Environmental Protection Water-Quality Network (WQN) with cooperation from the Pennsylvania Department of Environmental Protection.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

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 field, std units (00400)	pH, water, unfltrd lab, std units (00403)	Specif. conduc- tance, wat unf lab, µS/cm 25 degC (90095)	Specif. conduc- tance, wat unf µS/cm 25 degC (00095)	Temper- ature, water, deg C (00010)	Hard- ness, water, mg/L as CaCO3 (00900)	Calcium water unfltrd recover -able, mg/L (00916)	Magnes- ium, water, unfltrd recover -able, mg/L (00927)
NOV 2004													
02...	1010	1028	9813	380	10.5	7.5	7.5	283	280	12.5	95	23	8.9
JAN 2005													
25...	1410	1028	9813	631	15.7	7.5	7.6	263	267	.3	85	21	7.9
MAR													
15...	1040	1028	9813	384	14.6	7.6	7.8	289	289	5.1	94	22	9.4
MAY													
11...	1020	1028	9813	393	10.2	7.7	7.9	269	263	16.1	89	21	8.6
JUL													
07...	1010	1028	9813	226	9.0	7.3	7.8	264	276	23.4	88	21	8.5
SEP													
06...	1440	1028	9813	98	10.4	8.0	7.9	335	343	22.7	110	27	11

Date	ANC, wat unf fixed end pt, lab, mg/L as CaCO3 (00417)	Sulfate water, fltrd, mg/L (00945)	Residue on evap. at 105degC wat flt mg/L (00515)	Residue total at 105 deg. C, sus- pended, mg/L (00530)	Ammonia water, unfltrd mg/L as N (00610)	Nitrate water unfltrd mg/L as N (00620)	Nitrite water, unfltrd mg/L as N (00615)	Total nitro- gen, water, unfltrd mg/L (00600)	Ortho- phos- phate, water, unfltrd mg/L as P (70507)	Phos- phorus, water, unfltrd mg/L (00665)	Organic carbon, water, unfltrd mg/L (00680)	Fecal coli- form, M-FC 0.45µMF col/ 100 mL (31616)	Alum- inum, water, unfltrd recover -able, µg/L (01105)
NOV 2004													
02...	63	18	210	<2	<.020	3.3	<.040	3.6	.07	.08	2.9	<20	<200
JAN 2005													
25...	48	19	150	2	.110	3.9	<.040	4.0	.07	.09	1.5	280	<200
MAR													
15...	53	20	180	8	.020	4.0	<.040	4.3	.07	.08	1.8	60	<200
MAY													
11...	55	20	170	<2	<.020	3.4	<.040	3.8	.03	.05	--	160	<200
JUL													
07...	57	19	170	<2	.130	3.0	<.040	3.4	.09	.10	--	160	<200
SEP													
06...	69	23	250	20	.040	4.1	<.040	4.2	.13	.16	--	40	<200

Date	Copper, water, unfltrd recover -able, µg/L (01042)	Iron, water, unfltrd recover -able, µg/L (01045)	Lead, water, unfltrd recover -able, µg/L (01051)	Mangan- ese, water, unfltrd recover -able, µg/L (01055)	Nickel, water, unfltrd recover -able, µg/L (01067)	Zinc, water, unfltrd recover -able, µg/L (01092)
NOV 2004						
02...	<10	130	<1.0	20	<50	<10
JAN 2005						
25...	<10	300	<1.0	30	<50	<10
MAR						
15...	<10	200	<1.0	40	<50	<10
MAY						
11...	<10	220	<1.0	40	<50	<10
JUL						
07...	<10	310	<1.0	40	<50	<10
SEP						
06...	<10	220	<1.0	30	<50	<10

CHRISTINA RIVER BASIN

01481000 BRANDYWINE CREEK AT CHADDS FORD, PA--Continued

BIOLOGICAL DATA
BENTHIC MACROINVERTEBRATES

REMARKS.--Samples were collected using a D-Frame net with a mesh size of 500 μm. Samples represent counts per 100 animal (approximate) subsamples.

Date	08/11/04
Benthic macroinvertebrate	Count
Platyhelminthes	
Turbellaria (FLATWORMS)	
Tricladida	
Planariidae	6
Nemertea (PROBOSCIS WORMS)	
Enopla	
Hoplonemertea	
Tetrastemmatidae	
Prostoma	3
Mollusca	
Bivalvia (CLAMS)	
Veneroida	
Corbiculidae	
Corbicula fluminea	6
Arthropoda	
Acariformes	
Hydrachnidia (WATER MITES)	1
Crustacea	
Amphipoda (SCUDS)	
Gammaridae	
Gammarus	4
Insecta	
Ephemeroptera (MAYFLIES)	
Baetidae	
Acentrella	3
Baetis	18
Hemiptera	
Veliidae	
Rhagovelia	2
Trichoptera (CADDISFLIES)	
Glossosomatidae	2
Hydropsychidae	
Cheumatopsyche	10
Hydropsyche	14
Philopotamidae	
Chimarra	2
Coleoptera (BEETLES)	
Elmidae (RIFFLE BEETLES)	
Optioservus	27
Oulimnius	3
Stenelmis	126
Diptera (TRUE FLIES)	
Chironomidae (MIDGES)	19
Empididae (DANCE FLIES)	
Hemerodromia	4
Simuliidae (BLACK FLIES)	
Simulium	2
Tipulidae (CRANE FLIES)	
Antocha	2
Total Organisms	254
Total Taxa	19

CHRISTINA RIVER BASIN

01481000 BRANDYWINE CREEK AT CHADDS FORD, PA--Continued

SPECIFIC CONDUCTANCE, MICROSIEMENS PER CENTIMETER AT 25° CELSIUS, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	234	226	230	287	271	280	241	187	222	---	---	---
2	242	233	237	287	283	285	228	187	211	---	---	---
3	248	242	245	296	284	290	---	---	---	---	---	---
4	252	248	250	290	264	284	---	---	---	---	---	---
5	253	250	251	264	226	237	---	---	---	---	---	---
6	250	248	249	261	238	248	---	---	---	---	---	---
7	251	249	250	276	261	269	---	---	---	---	---	---
8	260	246	251	279	276	277	---	---	---	---	---	---
9	261	258	259	284	279	281	---	---	---	---	---	---
10	272	260	269	290	284	288	---	---	---	---	---	---
11	271	266	268	292	289	291	---	---	---	---	---	---
12	284	264	270	290	268	283	---	---	---	---	---	---
13	294	284	291	268	216	227	---	---	---	---	---	---
14	293	281	288	261	232	248	---	---	---	---	---	---
15	286	249	260	272	261	267	---	---	---	---	---	---
16	281	220	237	277	272	274	---	---	---	---	---	---
17	268	240	258	280	277	279	---	---	---	---	---	---
18	273	263	269	281	279	280	---	---	---	---	---	---
19	274	235	262	284	280	282	---	---	---	---	---	---
20	263	232	247	284	279	282	---	---	---	---	---	---
21	273	263	268	283	277	281	---	---	---	---	---	---
22	273	266	269	277	273	275	---	---	---	---	---	---
23	272	270	271	284	277	280	---	---	---	---	---	---
24	277	272	275	286	281	284	---	---	---	---	---	---
25	292	277	281	286	270	281	---	---	---	---	---	---
26	289	278	282	272	269	270	---	---	---	---	---	---
27	293	288	290	281	270	276	---	---	---	---	---	---
28	292	287	290	279	120	177	---	---	---	---	---	---
29	291	287	289	218	141	184	---	---	---	---	---	---
30	304	259	286	237	218	229	---	---	---	---	---	---
31	278	256	264	---	---	---	---	---	---	---	---	---
MONTH	304	220	265	296	120	266	241	187	216	---	---	---

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	---	---	---	368	288	329	241	237	240	246	233	239
2	---	---	---	505	363	442	241	145	204	246	235	240
3	---	---	---	415	325	357	168	131	143	253	243	248
4	---	---	---	327	311	322	211	168	192	---	---	---
5	---	---	---	321	302	311	219	211	217	256	253	254
6	---	---	---	303	295	300	224	219	222	257	254	255
7	---	---	---	296	288	292	231	223	227	258	255	257
8	---	---	---	320	274	289	236	219	226	258	253	256
9	---	---	---	341	318	327	229	222	226	259	253	256
10	---	---	---	326	306	315	232	229	231	260	253	256
11	---	---	---	307	296	301	234	231	233	261	253	257
12	---	---	---	304	294	296	236	233	235	259	254	256
13	---	---	---	307	292	301	240	235	238	260	250	256
14	---	---	---	293	285	290	240	237	239	257	242	251
15	---	---	---	289	282	285	241	238	240	261	252	256
16	---	---	---	287	281	284	246	240	243	257	251	254
17	---	---	---	284	282	283	247	244	246	258	251	254
18	---	---	---	286	283	285	247	243	245	271	252	261
19	---	---	---	288	284	285	250	245	247	270	260	266
20	---	---	---	292	284	289	251	247	249	275	267	271
21	---	---	---	298	291	294	249	246	247	270	247	255
22	---	---	---	292	283	289	251	248	249	265	253	260
23	---	---	---	287	260	279	251	233	247	268	264	266
24	---	---	---	260	223	234	243	211	223	279	267	269
25	---	---	---	264	242	257	235	221	229	270	267	269
26	457	314	393	266	264	265	243	234	239	272	268	270
27	372	318	337	269	265	266	247	238	243	276	270	273
28	319	290	302	265	148	236	248	243	245	276	272	274
29	---	---	---	204	141	167	250	245	247	277	273	274
30	---	---	---	232	204	223	251	242	247	273	271	272
31	---	---	---	238	232	236	---	---	---	276	273	275
MONTH	457	290	344	505	141	288	251	131	232	279	233	260

CHRISTINA RIVER BASIN

01481000 BRANDYWINE CREEK AT CHADDS FORD, PA--Continued

SPECIFIC CONDUCTANCE, MICROSIEMENS PER CENTIMETER AT 25° CELSIUS, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	278	275	277	299	283	295	320	311	317	340	324	335
2	283	275	280	284	210	237	320	311	317	339	331	338
3	285	273	280	271	254	260	319	309	316	338	332	335
4	279	253	266	290	271	280	329	319	323	340	335	337
5	271	253	264	295	280	289	333	320	327	341	336	338
6	277	267	274	301	278	290	326	321	323	340	335	338
7	268	191	215	284	270	276	327	317	322	346	338	340
8	263	232	247	---	---	---	342	316	324	346	338	343
9	275	263	271	---	---	---	328	227	250	352	338	346
10	282	274	280	---	---	---	295	257	272	350	332	342
11	286	281	283	---	---	---	299	286	293	343	330	336
12	290	282	286	285	272	281	308	299	304	350	319	336
13	289	282	286	291	283	288	326	308	317	351	340	347
14	297	287	291	298	288	292	327	322	325	350	327	341
15	301	288	293	298	271	292	339	317	327	345	240	288
16	293	284	290	292	207	243	317	279	289	271	236	249
17	299	284	293	274	166	234	325	291	312	303	271	289
18	297	291	294	217	172	193	314	306	308	309	260	288
19	303	295	299	254	217	241	316	306	311	276	257	266
20	303	295	297	272	244	257	323	316	320	308	276	292
21	300	294	296	289	272	282	330	320	327	328	308	319
22	301	291	296	296	289	293	336	326	332	347	328	339
23	303	294	298	302	296	300	330	322	328	346	339	342
24	301	292	298	305	301	303	339	328	335	346	339	343
25	302	291	299	309	299	304	350	332	339	358	346	352
26	302	293	299	308	300	305	349	342	345	358	346	353
27	304	295	300	305	290	298	350	341	344	348	345	347
28	304	298	301	308	294	303	351	344	348	353	343	349
29	302	293	298	309	293	301	362	326	342	349	341	345
30	300	296	298	310	298	305	327	295	308	349	341	345
31	---	---	---	318	308	312	324	307	316	---	---	---
MONTH	304	191	285	318	166	280	362	227	318	358	236	329

PH, WATER, WHOLE, FIELD, STANDARD UNITS, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	MAX	MIN	MEDIAN	MAX	MIN	MEDIAN	MAX	MIN	MEDIAN	MAX	MIN	MEDIAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	7.4	7.3	7.3	7.3	7.2	7.3	7.5	7.4	7.4	---	---	---
2	7.4	7.4	7.4	7.4	7.3	7.3	7.4	7.4	7.4	---	---	---
3	7.4	7.4	7.4	7.4	7.2	7.3	---	---	---	---	---	---
4	7.4	7.4	7.4	7.3	7.1	7.3	---	---	---	---	---	---
5	7.5	7.4	7.4	7.1	6.9	7.0	---	---	---	---	---	---
6	7.5	7.4	7.4	7.2	7.0	7.1	---	---	---	---	---	---
7	7.5	7.4	7.5	7.1	7.1	7.1	---	---	---	---	---	---
8	7.5	7.4	7.4	7.6	7.1	7.5	---	---	---	---	---	---
9	7.6	7.5	7.5	7.6	7.5	7.5	---	---	---	---	---	---
10	7.6	7.5	7.5	7.6	7.5	7.6	---	---	---	---	---	---
11	7.6	7.5	7.5	7.6	7.5	7.6	---	---	---	---	---	---
12	7.6	7.5	7.5	7.6	7.4	7.5	---	---	---	---	---	---
13	7.6	7.5	7.5	7.5	7.3	7.3	---	---	---	---	---	---
14	7.5	7.4	7.4	7.4	7.3	7.4	---	---	---	---	---	---
15	7.4	7.2	7.2	7.4	7.4	7.4	---	---	---	---	---	---
16	7.4	7.2	7.4	7.5	7.4	7.4	---	---	---	---	---	---
17	7.5	7.4	7.4	7.5	7.4	7.4	---	---	---	---	---	---
18	7.5	7.4	7.4	7.5	7.4	7.4	---	---	---	---	---	---
19	7.5	7.3	7.4	7.6	7.4	7.5	---	---	---	---	---	---
20	7.6	7.3	7.4	7.6	7.5	7.5	---	---	---	---	---	---
21	7.6	7.5	7.6	7.6	7.5	7.5	---	---	---	---	---	---
22	7.6	7.6	7.6	7.6	7.5	7.6	---	---	---	---	---	---
23	7.6	7.5	7.6	7.6	7.5	7.6	---	---	---	---	---	---
24	7.6	7.6	7.6	7.6	7.5	7.5	---	---	---	---	---	---
25	7.6	7.6	7.6	7.6	7.5	7.5	---	---	---	---	---	---
26	7.6	7.5	7.6	7.6	7.5	7.6	---	---	---	---	---	---
27	7.6	7.5	7.6	7.7	7.5	7.6	---	---	---	---	---	---
28	7.6	7.5	7.6	7.6	7.1	7.1	---	---	---	---	---	---
29	7.6	7.5	7.5	7.4	7.1	7.2	---	---	---	---	---	---
30	7.5	7.3	7.3	7.5	7.4	7.4	---	---	---	---	---	---
31	7.3	7.2	7.2	---	---	---	---	---	---	---	---	---
MAX	7.6	7.6	7.6	7.7	7.5	7.6	7.5	7.4	7.4	---	---	---
MIN	7.3	7.2	7.2	7.1	6.9	7.0	7.4	7.4	7.4	---	---	---

CHRISTINA RIVER BASIN

01481000 BRANDYWINE CREEK AT CHADDS FORD, PA--Continued

PH, WATER, WHOLE, FIELD, STANDARD UNITS, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

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

DAY	MAX	MIN	MEDIAN	MAX	MIN	MEDIAN	MAX	MIN	MEDIAN	MAX	MIN	MEDIAN
	JUNE			**JULY**			**AUGUST**			**SEPTEMBER**		
1	7.8	7.4	7.5	7.8	7.5	7.5	8.7	7.8	8.3	7.9	7.4	7.5
2	7.9	7.4	7.6	7.5	7.3	7.4	8.7	7.8	8.3	7.9	7.4	7.5
3	7.6	7.5	7.5	7.6	7.3	7.5	8.6	7.7	8.1	7.9	7.5	7.6
4	7.6	7.5	7.5	7.8	7.4	7.6	8.4	7.6	8.0	7.9	7.5	7.6
5	7.7	7.4	7.5	7.8	7.5	7.6	8.4	7.6	7.9	8.0	7.5	7.6
6	7.7	7.4	7.5	7.8	7.4	7.6	8.2	7.5	7.7	8.0	7.6	7.6
7	7.5	7.3	7.4	7.6	7.4	7.5	8.0	7.5	7.6	8.1	7.6	7.6
8	7.5	7.3	7.4	---	---	---	7.8	7.5	7.6	8.1	7.6	7.6
9	7.6	7.4	7.5	---	---	---	7.6	7.3	7.4	8.1	7.6	7.7
10	7.6	7.4	7.5	---	---	---	7.5	7.3	7.4	8.2	7.6	7.7
11	7.7	7.4	7.5	---	---	---	7.6	7.4	7.5	8.2	7.6	7.7
12	7.7	7.4	7.6	7.8	7.5	7.6	7.7	7.4	7.5	8.2	7.6	7.7
13	7.8	7.5	7.6	7.8	7.5	7.6	7.8	7.4	7.5	8.2	7.6	7.7
14	7.9	7.5	7.6	7.8	7.5	7.6	7.8	7.4	7.5	8.0	7.5	7.7
15	7.9	7.5	7.6	7.9	7.5	7.6	7.7	7.5	7.5	7.7	7.3	7.4
16	7.8	7.5	7.6	7.6	7.4	7.4	7.5	7.4	7.4	7.4	7.2	7.3
17	8.0	7.5	7.7	7.5	7.4	7.4	7.8	7.4	7.6	7.5	7.3	7.4
18	8.1	7.6	7.8	7.4	7.3	7.4	7.8	7.5	7.6	7.6	7.4	7.5
19	8.0	7.6	7.7	7.5	7.4	7.5	7.7	7.5	7.6	7.5	7.3	7.4
20	8.2	7.6	7.9	7.6	7.4	7.5	7.8	7.5	7.6	7.6	7.4	7.5
21	8.4	7.7	8.0	7.8	7.5	7.6	7.9	7.5	7.6	7.8	7.5	7.6
22	8.6	7.7	8.1	7.9	7.5	7.7	7.9	7.4	7.6	7.8	7.4	7.6
23	8.7	7.7	8.3	8.0	7.6	7.8	8.0	7.4	7.6	7.8	7.4	7.5
24	8.7	7.7	8.3	8.1	7.6	7.8	7.9	7.5	7.6	8.0	7.4	7.6
25	8.8	7.7	8.3	8.2	7.7	7.9	8.0	7.5	7.6	8.0	7.5	7.6
26	8.7	7.6	8.3	8.3	7.6	7.9	8.0	7.5	7.6	7.9	7.5	7.6
27	8.3	7.6	7.9	8.4	7.6	7.9	7.9	7.5	7.6	7.9	7.4	7.6
28	8.1	7.4	7.7	8.4	7.6	7.9	7.8	7.5	7.6	7.9	7.4	7.6
29	7.8	7.5	7.6	8.6	7.6	8.0	7.7	7.5	7.6	7.8	7.5	7.6
30	7.8	7.4	7.5	8.6	7.7	8.2	7.7	7.4	7.5	7.9	7.5	7.6
31	---	---	---	8.6	7.7	8.3	7.7	7.4	7.5	---	---	---
MAX	8.8	7.7	8.3	8.6	7.7	8.3	8.7	7.8	8.3	8.2	7.6	7.7
MIN	7.5	7.3	7.4	7.4	7.3	7.4	7.5	7.3	7.4	7.4	7.2	7.3

CHRISTINA RIVER BASIN

01481000 BRANDYWINE CREEK AT CHADDS FORD, PA--Continued

WATER TEMPERATURE, DEGREES CELSIUS, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	17.6	16.1	16.9	14.0	12.9	13.3	9.4	8.5	8.9	---	---	---
2	17.0	16.4	16.7	13.3	12.3	12.9	8.6	7.2	7.7	---	---	---
3	17.1	16.1	16.7	13.4	12.2	13.1	---	---	---	---	---	---
4	16.6	15.0	15.9	12.2	10.1	10.8	---	---	---	---	---	---
5	16.1	14.6	15.3	10.4	9.6	10.0	---	---	---	---	---	---
6	14.6	12.9	13.7	9.6	8.5	9.2	---	---	---	---	---	---
7	14.2	12.5	13.4	10.1	8.4	9.4	---	---	---	---	---	---
8	15.1	13.3	14.2	10.1	8.6	9.4	---	---	---	---	---	---
9	15.4	14.3	14.9	8.6	7.0	7.8	---	---	---	---	---	---
10	16.1	14.9	15.5	7.0	5.7	6.4	---	---	---	---	---	---
11	15.2	13.6	14.3	7.4	5.9	6.7	---	---	---	---	---	---
12	13.6	12.1	12.9	7.7	7.3	7.6	---	---	---	---	---	---
13	12.6	11.5	12.1	7.6	6.9	7.3	---	---	---	---	---	---
14	13.2	12.3	12.6	6.9	5.8	6.3	---	---	---	---	---	---
15	13.9	13.2	13.5	6.4	5.1	5.9	---	---	---	---	---	---
16	13.8	12.9	13.4	7.0	5.5	6.4	---	---	---	---	---	---
17	12.9	11.6	12.1	7.7	6.2	7.0	---	---	---	---	---	---
18	11.6	10.3	11.0	9.6	7.7	8.5	---	---	---	---	---	---
19	11.9	11.4	11.7	10.3	9.4	9.8	---	---	---	---	---	---
20	11.8	11.6	11.7	10.9	10.3	10.6	---	---	---	---	---	---
21	12.3	11.7	11.9	11.3	10.8	11.0	---	---	---	---	---	---
22	12.6	11.7	12.1	11.0	10.2	10.5	---	---	---	---	---	---
23	12.1	10.9	11.4	10.4	10.1	10.3	---	---	---	---	---	---
24	11.1	10.3	10.6	11.7	10.4	10.8	---	---	---	---	---	---
25	11.9	10.7	11.2	12.9	10.8	12.2	---	---	---	---	---	---
26	12.1	11.6	11.9	10.8	7.6	9.0	---	---	---	---	---	---
27	12.0	11.0	11.6	8.0	6.8	7.4	---	---	---	---	---	---
28	12.3	11.3	11.8	12.3	8.0	10.1	---	---	---	---	---	---
29	11.6	11.0	11.2	10.2	8.4	9.1	---	---	---	---	---	---
30	13.3	11.5	12.3	8.5	7.7	8.1	---	---	---	---	---	---
31	14.5	13.3	13.8	---	---	---	---	---	---	---	---	---
MONTH	17.6	10.3	13.2	14.0	5.1	9.2	9.4	7.2	8.3	---	---	---

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	---	---	---	4.0	2.1	3.0	12.3	9.3	10.7	15.1	13.1	14.0
2	---	---	---	4.4	3.2	3.8	12.1	10.4	11.1	14.6	12.5	13.3
3	---	---	---	3.9	2.4	3.2	11.2	8.5	9.8	12.6	10.8	11.9
4	---	---	---	3.9	2.0	3.1	10.6	7.5	8.9	---	---	---
5	---	---	---	4.7	2.6	3.8	11.6	9.0	10.3	13.5	11.0	12.4
6	---	---	---	5.0	3.2	4.2	13.7	10.5	11.9	13.2	11.9	12.4
7	---	---	---	7.9	4.5	6.0	14.5	12.6	13.5	14.3	11.0	12.6
8	---	---	---	8.0	4.4	7.0	14.7	13.4	14.1	16.0	12.9	14.5
9	---	---	---	4.4	2.3	3.0	14.1	11.9	13.2	17.6	14.5	16.1
10	---	---	---	3.7	1.7	2.8	14.2	11.5	13.0	18.1	15.5	16.9
11	---	---	---	5.5	3.0	4.2	14.6	12.6	13.7	18.7	16.2	17.5
12	---	---	---	6.6	4.8	5.8	14.1	11.6	12.8	18.4	17.2	17.9
13	---	---	---	7.1	5.2	6.3	13.2	10.8	12.2	17.5	15.3	16.4
14	---	---	---	7.1	5.5	6.4	13.6	11.1	12.4	18.5	15.5	17.0
15	---	---	---	6.7	4.9	6.0	13.3	11.6	12.6	19.3	18.0	18.6
16	---	---	---	6.6	4.9	5.9	13.4	10.7	12.0	19.1	17.4	18.3
17	---	---	---	6.5	5.4	6.0	14.0	11.0	12.6	18.0	16.3	17.0
18	---	---	---	7.1	4.9	6.1	15.3	12.4	13.9	16.6	14.8	15.8
19	---	---	---	8.2	5.9	7.1	16.8	13.6	15.2	17.3	14.8	16.1
20	---	---	---	8.0	7.5	7.7	18.2	15.5	16.8	16.7	13.5	15.3
21	---	---	---	7.8	7.2	7.6	18.1	16.4	17.2	15.1	12.3	13.8
22	---	---	---	8.7	6.0	7.4	16.4	12.4	13.9	16.1	14.6	15.4
23	---	---	---	8.5	6.4	7.7	13.8	11.8	12.6	15.9	14.7	15.3
24	---	---	---	6.7	5.6	6.2	13.8	12.1	13.0	15.6	14.4	14.9
25	---	---	---	7.7	6.7	7.1	12.1	10.6	11.1	14.4	13.0	13.5
26	3.9	2.1	3.1	8.1	6.7	7.5	13.8	9.9	11.7	14.3	12.7	13.4
27	4.4	2.8	3.7	8.2	7.7	8.0	15.0	13.3	14.1	17.0	13.4	15.2
28	4.3	2.5	3.6	8.1	7.6	7.8	15.0	13.2	14.2	18.4	16.2	17.3
29	---	---	---	9.6	7.4	8.3	14.2	12.8	13.5	18.4	16.2	17.4
30	---	---	---	10.4	8.4	9.4	13.8	13.2	13.4	18.1	16.5	17.4
31	---	---	---	10.2	9.0	9.6	---	---	---	18.9	16.2	17.7
MONTH	4.4	2.1	3.5	10.4	1.7	6.1	18.2	7.5	12.8	19.3	10.8	15.5

CHRISTINA RIVER BASIN

01481000 BRANDYWINE CREEK AT CHADDS FORD, PA--Continued

WATER TEMPERATURE, DEGREES CELSIUS, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	19.9	17.3	18.7	26.2	24.4	25.2	25.7	23.6	24.6	25.5	23.1	24.2
2	19.6	18.0	18.9	25.0	22.8	23.9	26.9	24.0	25.5	25.1	22.4	23.7
3	18.9	16.9	17.8	24.4	22.6	23.7	27.7	24.9	26.4	24.3	22.1	23.2
4	17.7	16.3	17.0	24.8	22.1	23.5	28.0	25.6	27.0	23.4	21.0	22.2
5	20.9	17.1	18.9	25.1	23.3	24.2	28.5	26.2	27.4	23.1	20.7	21.8
6	22.8	20.1	21.4	24.7	23.1	23.9	27.9	26.0	27.0	22.9	20.4	21.5
7	22.6	20.3	21.5	24.3	22.6	23.5	26.7	25.0	25.9	22.7	20.0	21.2
8	24.0	21.2	22.7	---	---	---	26.0	23.5	25.1	22.4	19.6	20.9
9	24.1	22.5	23.4	---	---	---	23.5	22.6	23.0	21.8	20.0	20.7
10	24.5	22.8	23.6	---	---	---	24.3	22.5	23.4	22.2	19.7	20.8
11	25.3	23.2	24.3	---	---	---	26.1	23.3	24.7	22.1	19.6	20.7
12	25.4	23.6	24.5	25.5	23.1	24.4	27.3	24.6	26.0	22.4	19.8	20.9
13	25.3	23.6	24.5	25.0	23.9	24.5	28.3	25.7	27.1	23.0	20.4	21.4
14	26.0	23.9	25.0	24.8	23.9	24.3	29.0	26.5	27.8	22.1	21.3	21.7
15	26.0	24.4	25.2	25.0	23.7	24.2	28.4	26.7	27.4	23.0	21.1	22.1
16	25.0	22.7	23.9	24.3	22.9	23.7	26.8	24.0	25.3	24.3	22.6	23.4
17	22.7	21.0	21.8	24.1	23.2	23.6	24.7	22.7	23.9	24.4	23.2	23.8
18	21.6	19.5	20.7	25.6	23.9	24.7	25.0	22.7	23.9	23.6	22.0	22.8
19	20.6	19.3	19.7	26.2	24.4	25.4	24.5	23.2	23.7	23.4	21.2	22.3
20	20.3	18.5	19.5	26.7	24.6	25.7	24.1	22.5	23.3	22.6	21.3	22.1
21	21.5	18.5	20.1	26.5	24.4	25.6	25.7	23.3	24.5	22.7	20.5	21.6
22	22.8	20.1	21.4	27.0	24.9	26.1	25.9	23.3	24.6	22.2	19.8	21.1
23	23.2	20.4	21.9	26.9	25.2	26.1	25.0	22.6	23.8	22.3	20.5	21.4
24	24.1	21.3	22.7	25.6	23.6	24.8	24.0	21.7	22.8	22.0	20.6	21.3
25	24.9	22.0	23.6	25.7	23.4	24.6	23.5	20.6	22.2	21.3	20.2	20.7
26	25.6	22.9	24.3	27.2	24.6	25.9	23.1	21.1	22.1	21.2	20.1	20.7
27	25.0	23.7	24.1	28.6	26.0	27.2	23.0	21.5	22.3	21.6	20.0	20.7
28	25.6	22.9	24.3	27.4	25.3	26.2	22.8	22.1	22.4	20.4	18.1	19.4
29	25.4	24.1	24.7	25.8	23.8	25.0	23.3	21.5	22.4	19.4	17.7	18.7
30	25.9	24.0	24.9	25.7	24.0	24.9	23.9	22.5	23.3	18.2	16.2	17.1
31	---	---	---	24.9	23.6	24.4	25.0	23.6	24.2	---	---	---
MONTH	26.0	16.3	22.2	28.6	22.1	24.8	29.0	20.6	24.6	25.5	16.2	21.5

OXYGEN, DISSOLVED (MG/L), WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	9.0	8.5	8.8	8.9	7.8	8.4	12.1	10.3	11.2	---	---	---
2	8.9	8.2	8.7	9.0	8.3	8.6	11.6	11.0	11.3	---	---	---
3	9.0	8.5	8.8	8.7	8.0	8.4	---	---	---	---	---	---
4	9.3	8.8	9.0	8.9	7.6	8.4	---	---	---	---	---	---
5	9.3	8.1	9.0	8.0	6.9	7.3	---	---	---	---	---	---
6	9.9	9.0	9.6	9.1	6.9	8.2	---	---	---	---	---	---
7	10.0	9.3	9.7	8.5	7.3	8.2	---	---	---	---	---	---
8	9.8	9.3	9.5	9.7	7.6	9.0	---	---	---	---	---	---
9	9.7	9.1	9.3	10.3	9.5	10	---	---	---	---	---	---
10	9.6	8.6	9.1	11.1	9.9	10.6	---	---	---	---	---	---
11	9.8	8.1	9.2	11.3	10.7	11.0	---	---	---	---	---	---
12	10.2	9.3	9.7	11.0	10.1	10.7	---	---	---	---	---	---
13	10.6	9.3	10	10.5	9.3	10.0	---	---	---	---	---	---
14	9.9	8.7	9.4	11.6	9.4	10.5	---	---	---	---	---	---
15	9.1	8.6	8.9	11.9	10.7	11.3	---	---	---	---	---	---
16	9.3	8.4	9.0	12.0	10.6	11.6	---	---	---	---	---	---
17	9.8	8.7	9.4	12.3	11.5	11.9	---	---	---	---	---	---
18	10.1	9.2	9.8	12.1	11.0	11.7	---	---	---	---	---	---
19	10.0	8.9	9.4	12.2	11.0	11.6	---	---	---	---	---	---
20	9.6	8.8	9.2	11.7	10.9	11.3	---	---	---	---	---	---
21	9.1	8.7	8.9	11.8	10.9	11.3	---	---	---	---	---	---
22	9.2	8.9	9.0	12.0	11.0	11.5	---	---	---	---	---	---
23	9.1	8.3	8.9	11.7	11.0	11.4	---	---	---	---	---	---
24	9.6	8.8	9.2	11.3	10.5	11.0	---	---	---	---	---	---
25	9.4	9.0	9.2	10.6	10.0	10.2	---	---	---	---	---	---
26	9.3	8.8	9.1	12.6	10.2	11.4	---	---	---	---	---	---
27	9.6	8.9	9.2	13.2	12.1	12.5	---	---	---	---	---	---
28	9.5	8.9	9.1	---	---	---	---	---	---	---	---	---
29	9.5	9.0	9.2	---	---	---	---	---	---	---	---	---
30	9.0	8.2	8.6	12.3	11.0	11.6	---	---	---	---	---	---
31	8.4	7.8	8.1	---	---	---	---	---	---	---	---	---
MONTH	10.6	7.8	9.2	13.2	6.9	10.3	12.1	10.3	11.2	---	---	---

CHRISTINA RIVER BASIN

01481000 BRANDYWINE CREEK AT CHADDS FORD, PA--Continued

OXYGEN, DISSOLVED (MG/L), WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	---	---	---	---	---	---	---	---	---	10.0	8.1	9.3
2	---	---	---	---	---	---	---	---	---	10.7	9.2	9.9
3	---	---	---	---	---	---	---	---	---	---	---	---
4	---	---	---	---	---	---	---	---	---	---	---	---
5	---	---	---	---	---	---	---	---	---	13.0	11.1	12.0
6	---	---	---	---	---	---	---	---	---	13.0	10.9	11.9
7	---	---	---	---	---	---	---	---	---	13.5	11.4	12.3
8	---	---	---	---	---	---	---	---	---	13.3	10.7	11.9
9	---	---	---	---	---	---	---	---	---	13.6	10.2	11.8
10	---	---	---	---	---	---	---	---	---	14.0	10.0	11.8
11	---	---	---	---	---	---	---	---	---	14.3	9.7	11.8
12	---	---	---	---	---	---	---	---	---	13.6	9.5	11.4
13	---	---	---	---	---	---	---	---	---	14.6	10.2	12.3
14	---	---	---	---	---	---	---	---	---	14.6	10.3	12.2
15	---	---	---	---	---	---	---	---	---	13.3	9.3	11.3
16	---	---	---	---	---	---	---	---	---	13.6	9.4	11.4
17	---	---	---	---	---	---	---	---	---	13.7	9.5	11.6
18	---	---	---	---	---	---	---	---	---	13.6	10.2	11.8
19	---	---	---	---	---	---	---	---	---	13.6	9.9	11.7
20	---	---	---	---	---	---	10.1	7.7	9.0	11.0	9.4	10.2
21	---	---	---	---	---	---	11.7	7.0	9.1	12.1	10.3	11.0
22	---	---	---	---	---	---	9.8	8.0	9.0	11.8	9.7	10.7
23	---	---	---	---	---	---	12.0	8.1	10.6	11.8	9.5	10.5
24	---	---	---	---	---	---	10.3	8.2	9.3	10.8	9.4	10.1
25	---	---	---	---	---	---	10.9	8.7	10.1	10.9	9.8	10.3
26	---	---	---	---	---	---	11.3	9.1	10.5	11.4	10.2	10.8
27	---	---	---	---	---	---	10.9	9.2	9.9	11.4	9.6	10.5
28	---	---	---	---	---	---	10.6	8.1	9.3	10.9	8.9	9.7
29	---	---	---	---	---	---	9.9	8.3	9.2	10.7	8.7	9.5
30	---	---	---	---	---	---	9.9	8.3	9.1	11.0	8.8	9.7
31	---	---	---	---	---	---	---	---	---	11.3	9.1	10
MONTH	---	---	---	---	---	---	12.0	7.0	9.6	14.6	8.1	11.0

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	11.3	8.8	9.9	8.2	6.5	7.2	10.6	6.8	8.5	8.5	6.6	7.4
2	11.0	8.7	9.6	7.6	6.6	7.0	10.5	6.6	8.3	9.0	7.0	7.7
3	9.6	8.5	9.0	8.1	6.5	7.2	10.0	6.2	7.8	9.0	7.1	7.8
4	9.7	8.8	9.2	8.6	6.5	7.6	9.3	5.9	7.4	9.4	7.3	8.1
5	10.0	8.2	9.1	8.3	6.7	7.4	9.2	5.9	7.3	9.6	7.6	8.3
6	9.5	7.7	8.4	8.3	6.8	7.4	8.7	5.8	7.0	9.9	7.8	8.6
7	7.8	7.2	7.5	7.8	6.7	7.2	8.3	5.9	6.8	10.1	8.0	8.6
8	8.2	7.1	7.5	---	---	---	8.0	6.0	6.8	10.3	8.0	8.8
9	8.4	7.0	7.5	---	---	---	6.9	6.3	6.6	10.6	8.1	9.0
10	8.2	7.0	7.5	---	---	---	7.2	6.3	6.7	10.5	8.3	9.1
11	8.3	6.9	7.5	---	---	---	7.5	6.3	6.8	10.8	8.3	9.2
12	8.4	6.8	7.5	8.3	7.0	7.6	7.5	6.1	6.7	10.8	8.3	9.2
13	8.5	6.9	7.6	8.4	6.9	7.5	7.5	5.9	6.6	10.9	8.2	9.1
14	8.7	6.9	7.7	8.3	7.0	7.5	7.5	5.8	6.4	10.1	8.1	8.7
15	8.6	6.7	7.6	8.6	7.0	7.6	7.2	5.8	6.3	8.4	6.7	7.6
16	8.4	6.8	7.6	7.4	7.0	7.2	6.8	5.8	6.3	7.7	6.5	6.9
17	9.3	7.2	8.2	7.4	6.9	7.0	7.8	6.4	7.1	7.8	6.5	7.1
18	9.9	7.8	8.8	7.0	6.6	6.8	8.0	6.7	7.2	8.2	7.0	7.5
19	10.1	8.1	8.9	6.9	6.4	6.7	7.6	6.6	7.0	8.4	7.0	7.6
20	10.6	8.4	9.4	7.3	6.3	6.7	8.1	6.7	7.3	8.6	7.2	7.8
21	10.9	8.4	9.5	7.6	6.3	6.8	8.1	6.7	7.2	9.1	7.2	8.0
22	10.9	7.9	9.3	8.1	6.2	7.2	8.1	6.5	7.1	9.4	7.5	8.2
23	11.4	7.8	9.5	8.3	6.7	7.4	8.5	6.6	7.3	9.7	7.5	8.3
24	11.6	7.7	9.5	8.9	6.8	7.8	8.8	7.0	7.7	10.2	7.6	8.6
25	11.5	7.4	9.4	9.0	7.0	7.9	9.0	7.2	7.9	10.4	7.7	8.7
26	11.1	7.1	9.1	9.0	6.7	7.7	9.3	7.2	8.0	10.1	7.9	8.6
27	9.3	6.9	8.1	9.2	6.3	7.5	8.8	7.3	7.9	9.8	7.6	8.5
28	9.7	6.9	8.1	9.1	6.2	7.5	8.3	7.0	7.5	10.4	7.9	8.9
29	8.5	6.5	7.5	10.2	6.6	8.2	8.6	7.2	7.7	9.9	8.2	8.9
30	8.5	6.5	7.4	10.2	6.7	8.3	8.3	7.0	7.5	10.9	8.7	9.5
31	---	---	---	10.2	6.7	8.4	8.1	6.7	7.2	---	---	---
MONTH	11.6	6.5	8.4	10.2	6.2	7.4	10.6	5.8	7.2	10.9	6.5	8.3