

CHRISTINA RIVER BASIN

01480870 EAST BRANCH BRANDYWINE CREEK BELOW DOWNINGTOWN, PA

LOCATION.--Lat 39°58'07", long 75°40'25", Chester County, Hydrologic Unit 02040205, on left bank at downstream side of Sugars Bridge (U.S. Highway 322), 2,000 ft upstream from Valley Creek, 1.5 mi north of Marshallton, and 3.3 mi southeast of Downingtown.

DRAINAGE AREA.--89.9 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--February 1972 to current year.

REVISED RECORDS.--WDR PA-75-1: 1972(P), 1973, 1974.

GAGE.--Water-stage recorder and crest-stage gage. Elevation of gage is 195 ft above sea level, from topographic map. Feb. 1 to Apr. 10, and June 25 to Nov. 17, 1972, nonrecording gage at same site and datum.

REMARKS.--Records fair except those for estimated daily discharges, which are poor. Flow regulated since November 1973 by Marsh Creek Reservoir (station 01480684) about 7.5 mi upstream. Satellite and landline telemetry at station.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	92	73	148	97	e60	193	263	143	97	118	90	62
2	79	122	142	97	e59	161	248	150	92	109	85	59
3	84	191	142	100	e58	151	238	139	87	111	76	64
4	117	67	142	121	e64	138	294	135	83	129	483	88
5	e223	56	139	192	e60	118	227	135	97	102	122	58
6	e126	65	271	127	e60	113	204	135	174	92	97	52
7	e98	56	207	119	e60	110	193	129	133	86	89	48
8	e89	52	159	115	e61	110	189	105	111	80	79	49
9	58	51	150	114	e61	109	325	103	104	76	72	48
10	280	49	178	145	e61	105	240	136	98	95	70	47
11	132	49	192	174	e66	135	200	162	92	80	66	49
12	79	45	156	128	e72	222	199	116	94	74	86	49
13	79	45	148	122	e64	166	207	122	182	71	84	144
14	85	45	396	112	e150	156	203	192	125	85	91	71
15	80	42	271	107	179	146	194	156	116	93	90	212
16	94	41	201	e90	151	142	193	148	115	84	71	82
17	103	40	178	e79	175	291	228	145	107	80	64	67
18	111	40	168	e73	139	165	272	114	166	76	63	60
19	67	41	160	e60	293	121	200	204	845	80	64	129
20	94	42	174	e68	211	115	184	258	215	87	58	149
21	88	45	197	e62	167	552	339	214	175	74	55	84
22	70	44	141	e60	151	2600	402	221	405	69	52	71
23	80	45	e114	e58	173	868	243	320	191	64	50	68
24	71	50	103	e59	218	553	235	325	155	67	55	70
25	64	47	94	e70	251	414	222	226	134	71	51	79
26	61	112	94	e66	250	409	206	199	122	148	47	641
27	62	572	95	e63	195	406	169	187	117	137	48	180
28	69	208	93	e60	359	591	163	185	168	93	67	135
29	75	172	90	e58	231	307	157	159	181	81	53	129
30	75	158	90	e57	---	269	149	103	161	79	52	113
31	73	---	92	e66	---	252	---	99	---	88	76	---
TOTAL	2958	2665	4925	2919	4099	10188	6786	5165	4942	2779	2606	3157
MEAN	95.4	88.8	159	94.2	141	329	226	167	165	89.6	84.1	105
MAX	280	572	396	192	359	2600	402	325	845	148	483	641
MIN	58	40	90	57	58	105	149	99	83	64	47	47
CFSM	1.06	.99	1.77	1.05	1.57	3.66	2.52	1.85	1.83	1.00	.94	1.17
IN.	1.22	1.10	2.04	1.21	1.70	4.22	2.81	2.14	2.04	1.15	1.08	1.31

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1974 - 2000, BY WATER YEAR (WY)

	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000
MEAN	92.6	113	169	186	177	222	212	170	119	110	74.9	95.1															
MAX	304	242	577	527	409	525	594	410	315	421	177	292															
(WY)	1997	1997	1997	1979	1979	1994	1983	1989	1982	1984	1996	1979															
MIN	41.2	43.6	40.8	30.9	74.6	61.6	53.1	75.9	45.5	33.3	28.6	29.5															
(WY)	1987	1974	1981	1981	1980	1985	1985	1999	1999	1999	1999	1980															

e Estimated.

CHRISTINA RIVER BASIN

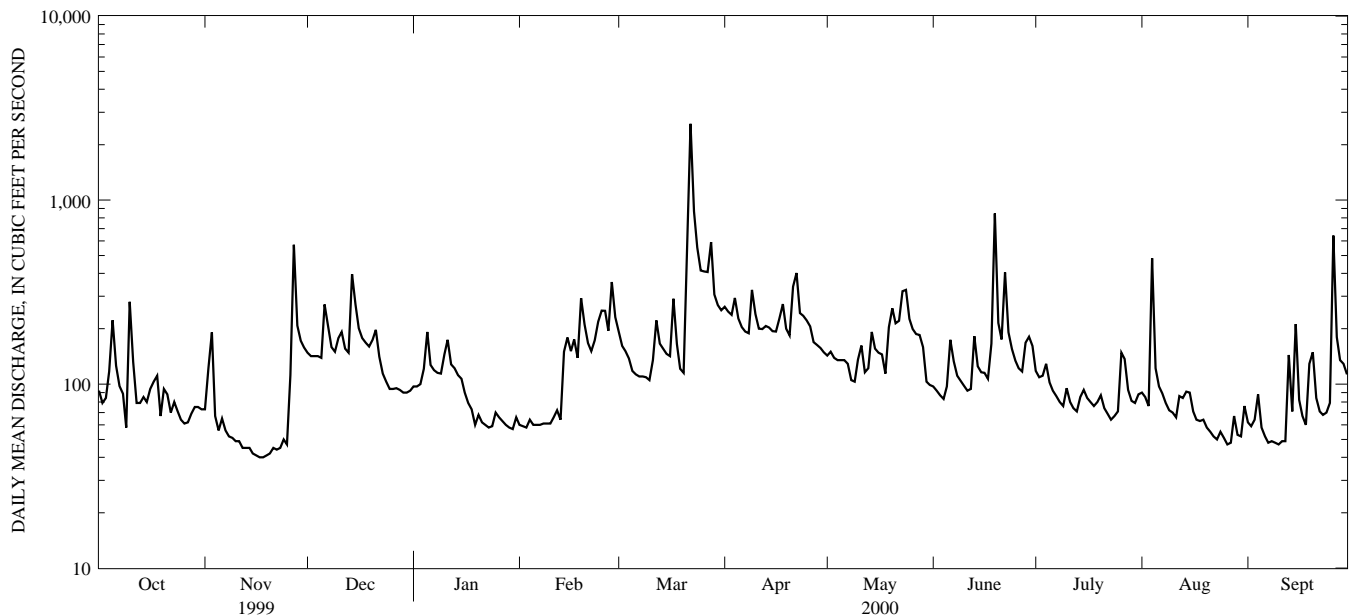
01480870 EAST BRANCH BRANDYWINE CREEK BELOW DOWNINGTOWN, PA--Continued

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1974 - 2000	
ANNUAL TOTAL	41677		53189			
ANNUAL MEAN	114		145		145	
HIGHEST ANNUAL MEAN					257	
LOWEST ANNUAL MEAN					59.7	
HIGHEST DAILY MEAN	3080	Sep 16	2600	Mar 22	3080	Sep 16 1999
LOWEST DAILY MEAN	23	Jul 28 ^a	40	Nov 17,18	23	Sep 12 1995
ANNUAL SEVEN-DAY MINIMUM	24	Aug 2	42	Nov 14	24	Aug 2 1999
INSTANTANEOUS PEAK FLOW			^b 4270	Mar 22	^c 8160	Jun 22 1972
INSTANTANEOUS PEAK STAGE			10.79	Mar 22	14.79	Sep 16 1999
ANNUAL RUNOFF (CFSM)	1.27		1.62		1.61	
ANNUAL RUNOFF (INCHES)	17.25		22.01		21.91	
10 PERCENT EXCEEDS	189		241		277	
50 PERCENT EXCEEDS	82		110		95	
90 PERCENT EXCEEDS	29		57		42	

a Also Aug. 4, 6, 12, 13.

b From rating curve extended above 3,600 ft³/s on basis of runoff comparison with nearby station.

c From rating curve extended above 3,600 ft³/s on basis of slope-area measurement of peak flow at gage height 13.40 ft.



1-YEAR HYDROGRAPH
OCTOBER 1, 1999 TO SEPTEMBER 30, 2000

CHRISTINA RIVER BASIN

01480870 EAST BRANCH BRANDYWINE CREEK BELOW DOWNINGTOWN, PA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--October 1965 to September 1966, October 1970 to current year.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: February 1972 to current year.
 pH: February 1972 to current year.
 WATER TEMPERATURES: February 1972 to current year.
 DISSOLVED OXYGEN: February 1972 to current year.

INSTRUMENTATION.--Water-quality monitor since February 1972.

REMARKS.--Specific conductance records rated good. pH records rated good except for period Oct. 1 to Nov. 18, which are fair. Water temperature and dissolved oxygen records rated fair. 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, 652 microsiemens, Feb. 6, 1977; minimum, 67 microsiemens, July 1, 1984.
 pH: Maximum, 9.9, May 13, June 5, 1973; minimum, 5.4, Oct. 24, 26, 1973.
 WATER TEMPERATURE: Maximum, 33.0°C, July 18, 1977; minimum, 0.0°C, many days during winters.
 DISSOLVED OXYGEN: Maximum, 19.4 mg/L, Mar. 18, 1989; minimum, 0.8 mg/L, July 23, 1984.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	TIME	AGENCY ANA-LYZING SAMPLE NUMBER (00028)	AGENCY COL-LECTING SAMPLE NUMBER (00027)	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	OXYGEN, DIS-SOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	SPE-CIFIC CON-DUCT-ANCE (µS/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)	HARD-NESS TOTAL AS (MG/L) (00900)	CALCIUM DIS-SOLVED AS (MG/L) (00915)
OCT 1999 22...	0945	80020	1028	69	9.1	7.2	296	10.5	110	27
DATE		MAGNE-SIUM, DIS-SOLVED (MG/L) AS MG (00925)	POTAS-SIUM, DIS-SOLVED (MG/L) AS K (00935)	SODIUM AD-SORP-TION RATIO (00931)	SODIUM, DIS-SOLVED (MG/L) AS NA (00930)	SODIUM PERCENT (00932)	CHLO-RIDE, DIS-SOLVED (MG/L) AS CL (00940)	FLUO-RIDE, DIS-SOLVED (MG/L) AS F (00950)	SILICA, DIS-SOLVED (MG/L) AS SIO2 (00955)	SULFATE DIS-SOLVED (MG/L) AS SO4 (00945)
OCT 1999 22...	10	3.2	.6	15	23	25	<.10	13	22	
DATE		NITRO-GEN, DIS-SOLVED (MG/L) AS N (00608)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L) AS N (00631)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L) AS N (00613)	PHOS-PHORUS, ORTHO, DIS-SOLVED (MG/L) AS P (00671)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	ALUM-INUM, DIS-SOLVED (µG/L) AS AL (01106)	ARSENIC, DIS-SOLVED (µG/L) AS AS (01000)	BORON, DIS-SOLVED (µG/L) AS B (01020)	CADMIUM, DIS-SOLVED (µG/L) AS CD (01025)
OCT 1999 22...	<.020	2.73	<.010	.064	172	E9	<2	67	<.1	
DATE		CHRO-MIUM, DIS-SOLVED (µG/L) AS CR (01030)	COPPER, DIS-SOLVED (µG/L) AS CU (01040)	IRON, DIS-SOLVED (µG/L) AS FE (01046)	LEAD, DIS-SOLVED (µG/L) AS PB (01049)	MANGA-NESE, DIS-SOLVED (µG/L) AS MN (01056)	MERCURY, DIS-SOLVED (µG/L) AS HG (71890)	MOLYB-DENUM, DIS-SOLVED (µG/L) AS MO (01060)	NICKEL, DIS-SOLVED (µG/L) AS NI (01065)	ZINC, DIS-SOLVED (µG/L) AS ZN (01090)
OCT 1999 22...	<.8	2	50	E1	24	<.2	1	E1	E12	

CHRISTINA RIVER BASIN

01480870 EAST BRANCH BRANDYWINE CREEK BELOW DOWNINGTOWN, PA--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	TIME	AGENCY ANA- LYZING SAMPLE (CODE NUMBER) (00028)	AGENCY COL- LECTING SAMPLE (CODE NUMBER) (00027)	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	OXYGEN, DIS- SOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	SPE- CIFIC CON- DUCT- ANCE (µS/CM) (00095)	TEMPER- ATURE WATER (DEG C) (00010)	COLI- FORM, FECAL, 0.45 µM-MF (COLS./ 100 ML) (31616)
MAR 2000									
13...	1400	1028	1028	161	12.9	8.1	251	8.4	130
28...	0928	1028	1028	680	11.7	7.4	180	10.2	1300
APR									
10...	1040	1028	1028	234	11.6	7.6	225	8.7	420
26...	1050	1028	1028	209	10.2	7.5	240	10.6	120
MAY									
04...	1500	1028	1028	137	10.6	8.2	264	17.8	K58
16...	1630	1028	1028	146	10.3	7.7	254	16.5	120
23...	1200	1028	1028	270	9.6	7.3	203	13.9	K7200
JUN									
01...	1010	1028	1028	99	9.4	7.7	307	15.9	260
13...	1145	1028	1028	195	8.7	7.3	213	18.5	7400
27...	1615	1028	1028	115	8.8	7.9	276	24.0	530
JUL									
12...	1250	1028	1028	75	9.6	7.9	315	22.5	230
21...	1030	1028	1028	75	8.7	7.7	320	19.1	280
26...	1305	1028	1028	204	8.4	7.6	252	19.6	3100
AUG									
02...	1500	1028	1028	90	9.0	7.9	284	24.9	330
10...	1200	1028	1028	72	8.7	7.9	309	24.3	220
24...	1215	1028	1028	57	10.0	7.7	346	20.5	420
SEP									
05...	1210	1028	1028	56	8.8	7.8	319	20.0	1500
20...	1330	1028	1028	123	9.2	7.6	243	19.1	2900

CHRISTINA RIVER BASIN

01480870 EAST BRANCH BRANDYWINE CREEK BELOW DOWNINGTOWN, 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 3.2 m^2 .

Date	10/22/99
Benthic Macroinvertebrate	Count
Platyhelminthes	
Turbellaria (Flatworms)	
Tricladida	
Planariidae	1
Nematoda (Nematodes)	1
Nemertea (Proboscis Worms)	
Enopla	
Hoploneurata	
Tetrastemmatidae	
<i>Prostoma</i>	1
Mollusca	
Gastropoda (Snails)	
Basommatophora	
Ancyliidae	
<i>Ferrissia</i>	4
Bivalvia (Clams)	
Veneroidea	
Sphaeriidae	2
Annelida (Segmented Worms)	
Oligochaeta	4
Arthropoda	
Acariformes	
Hydrachnidia (Water Mites)	3
Crustacea	
Amphipoda (Scuds)	
Crangonyctidae	
<i>Crangonyx</i>	2
Insecta	
Ephemeroptera (Mayflies)	
Baetidae	
<i>Baetis</i>	5
<i>Pseudocloeon</i>	2
Caenidae	
<i>Caenis</i>	16
Ephemerellidae	
<i>Serratella</i>	7
Heptageniidae	
<i>Stenonema</i>	4
Isonychiidae	
<i>Isonychia</i>	2
Odonata (Dragonflies and Damselflies)	
Gomphidae	1
Trichoptera (Caddisflies)	
Hydropsychidae	
<i>Cheumatopsyche</i>	43
<i>Hydropsyche</i>	17
Leptoceridae	
<i>Mystacides</i>	1
Philopotamidae	
<i>Chimarra</i>	1

Date	10/22/99
Benthic Macroinvertebrate	Count
Coleoptera (Beetles)	
Elmidae (Riffle Beetles)	
<i>Dubiraphia</i>	2
<i>Optioservus</i>	46
<i>Oulimnius</i>	4
<i>Stenelmis</i>	27
Hydrophilidae	
<i>Berosus</i>	2
Psephenidae (Water Pennies)	
<i>Psephenus</i>	1
Diptera (True Flies)	
Ceratopogonidae	1
Chironomidae (Midges)	543
Simuliidae (Black Flies)	
<i>Simulium</i>	8
Tipulidae (Crane Flies)	
<i>Antocha</i>	2
Total count	753
Total number of taxa	29

CHRISTINA RIVER BASIN

01480870 EAST BRANCH BRANDYWINE CREEK BELOW DOWNINGTOWN, PA--Continued

SPECIFIC CONDUCTANCE, MICROSIEMENS PER CENTIMETER AT 25° CELSIUS, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
1	304	244	276	341	295	322	---	---	---	---	---	---
2	324	283	300	330	254	307	---	---	---	---	---	---
3	299	268	286	261	213	238	---	---	---	---	---	---
4	299	254	272	294	261	276	---	---	---	---	---	---
5	268	214	238	302	263	283	---	---	---	---	---	---
6	281	253	268	303	268	288	---	---	---	---	---	---
7	295	266	280	309	266	290	---	---	---	---	---	---
8	305	276	290	313	285	302	---	---	---	---	---	---
9	350	305	329	326	292	310	---	---	---	---	---	---
10	343	190	261	326	303	316	---	---	---	---	---	---
11	270	204	233	348	304	323	---	---	---	---	---	---
12	301	270	287	331	301	319	---	---	---	---	---	---
13	308	271	295	335	303	321	---	---	---	---	---	---
14	309	283	293	336	301	322	---	---	---	---	---	---
15	294	277	286	330	302	316	---	---	---	---	---	---
16	298	265	276	335	306	324	---	---	---	---	---	---
17	295	248	262	340	315	328	---	---	---	---	---	---
18	299	246	276	345	314	329	---	---	---	---	---	---
19	314	281	300	345	308	329	---	---	---	---	---	---
20	323	271	297	339	308	324	---	---	---	---	---	---
21	298	274	287	340	301	324	---	---	---	---	---	---
22	318	296	307	336	305	324	---	---	---	---	---	---
23	319	289	307	334	307	322	---	---	---	---	---	---
24	324	286	307	326	300	313	---	---	---	---	---	---
25	323	295	311	318	297	309	---	---	---	---	---	---
26	325	297	314	299	196	280	---	---	---	---	---	---
27	337	308	323	204	170	181	---	---	---	---	---	---
28	335	308	321	228	203	215	---	---	---	---	---	---
29	336	310	325	---	---	---	---	---	---	---	---	---
30	341	308	327	---	---	---	---	---	---	---	---	---
31	341	309	329	---	---	---	---	---	---	---	---	---
MONTH	350	190	292	348	170	301	---	---	---	---	---	---
	FEBRUARY			MARCH			APRIL			MAY		
1	---	---	---	266	240	251	234	227	230	270	258	263
2	---	---	---	269	256	263	236	226	231	270	248	259
3	---	---	---	273	258	266	245	229	234	266	252	261
4	---	---	---	289	257	270	245	219	227	277	255	265
5	---	---	---	292	272	284	238	229	233	274	257	266
6	---	---	---	294	273	284	246	225	238	276	257	268
7	---	---	---	290	283	286	248	234	240	286	264	273
8	---	---	---	290	280	285	243	230	236	296	276	287
9	---	---	---	290	275	284	237	202	212	302	279	293
10	---	---	---	296	280	287	234	207	221	---	---	---
11	---	---	---	305	262	290	243	232	238	---	---	---
12	---	---	---	266	242	250	246	236	242	285	269	278
13	---	---	---	254	241	248	239	228	234	289	253	283
14	---	---	---	255	239	245	245	234	238	256	222	241
15	---	---	---	253	243	246	252	230	241	253	244	249
16	---	---	---	270	248	256	255	244	248	260	239	252
17	---	---	---	251	218	228	246	231	240	269	245	255
18	---	---	---	277	229	248	237	219	228	292	267	277
19	---	---	---	278	268	273	251	236	243	287	212	253
20	---	---	---	279	269	275	256	244	250	249	184	225
21	---	---	---	---	---	---	258	157	237	236	192	220
22	---	---	---	---	---	---	222	158	194	249	219	238
23	---	---	---	---	---	---	231	221	225	227	186	206
24	---	---	---	209	183	200	236	224	229	227	199	211
25	248	219	232	217	209	213	240	235	238	238	220	230
26	238	207	219	222	209	216	253	235	239	240	231	236
27	255	234	244	231	208	217	259	250	255	248	232	243
28	269	206	227	226	177	192	261	249	256	248	237	244
29	248	222	236	225	211	218	264	247	256	288	240	252
30	---	---	---	234	223	228	268	256	261	315	285	297
31	---	---	---	237	230	233	---	---	---	308	297	303
MONTH	269	206	232	305	177	251	268	157	236	315	184	256

CHRISTINA RIVER BASIN

01480870 EAST BRANCH BRANDYWINE CREEK BELOW DOWNINGTOWN, PA--Continued

SPECIFIC CONDUCTANCE, MICROSIEMENS PER CENTIMETER AT 25° CELSIUS, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	312	302	307	268	249	258	310	268	294	315	297	309
2	318	307	312	269	253	264	312	284	300	334	310	318
3	321	309	314	268	227	259	314	299	308	338	285	320
4	324	315	320	280	206	255	---	---	---	301	239	271
5	321	292	302	---	---	---	---	---	---	336	296	319
6	308	215	261	305	290	296	---	---	---	348	327	337
7	274	241	261	313	295	301	---	---	---	354	328	348
8	290	259	278	321	304	311	---	---	---	361	343	351
9	296	282	288	328	310	319	---	---	---	372	333	353
10	301	286	293	332	271	299	---	---	---	381	357	367
11	308	283	297	320	284	300	330	319	325	381	346	356
12	308	286	301	322	291	313	327	245	310	372	349	358
13	289	211	242	331	318	325	314	216	267	372	215	272
14	264	252	257	332	289	318	317	244	292	313	236	282
15	282	260	274	314	270	293	301	258	280	307	164	217
16	281	273	276	315	307	311	312	290	305	285	242	269
17	292	277	284	320	307	314	330	305	319	319	284	302
18	293	171	266	325	312	319	336	323	328	322	313	317
19	194	99	141	338	298	325	334	314	323	321	187	288
20	238	194	223	---	---	---	348	321	332	274	182	232
21	249	235	244	---	---	---	348	332	340	315	274	293
22	240	172	194	---	---	---	353	342	349	324	307	316
23	246	216	230	---	---	---	362	349	355	338	320	328
24	263	243	252	---	---	---	359	344	350	335	323	328
25	273	259	265	---	---	---	358	347	353	344	244	330
26	277	255	268	350	218	285	369	351	357	244	142	165
27	285	256	273	286	242	261	376	352	363	253	192	228
28	286	182	266	313	277	296	365	294	319	272	249	260
29	260	183	238	321	299	312	347	305	326	270	247	258
30	259	219	238	319	308	312	334	309	325	279	259	267
31	---	---	---	318	261	298	324	291	296	---	---	---
MONTH	324	99	266	350	206	298	376	216	322	381	142	299

PH, WATER, WHOLE, FIELD, STANDARD UNITS, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DAY	MAX	MIN	MEDIAN	MAX	MIN	MEDIAN	MAX	MIN	MEDIAN	MAX	MIN	MEDIAN
1	7.4	7.3	7.3	7.3	7.0	7.1	---	---	---	---	---	---
2	7.4	7.3	7.3	7.1	6.9	7.0	---	---	---	---	---	---
3	7.4	7.2	7.4	7.2	6.9	7.1	---	---	---	---	---	---
4	7.3	7.2	7.3	7.4	7.1	7.2	---	---	---	---	---	---
5	7.3	7.2	7.3	7.4	7.1	7.2	---	---	---	---	---	---
6	7.4	7.3	7.3	7.4	7.1	7.1	---	---	---	---	---	---
7	7.3	7.3	7.3	7.6	7.1	7.2	---	---	---	---	---	---
8	7.3	7.2	7.3	7.6	7.2	7.2	---	---	---	---	---	---
9	7.3	7.2	7.2	7.5	7.2	7.2	---	---	---	---	---	---
10	7.2	7.0	7.2	7.6	7.1	7.2	---	---	---	---	---	---
11	7.2	7.0	7.1	7.4	7.0	7.1	---	---	---	---	---	---
12	7.2	7.1	7.2	7.6	7.1	7.3	---	---	---	---	---	---
13	7.2	7.1	7.1	7.9	7.1	7.2	---	---	---	---	---	---
14	7.2	7.0	7.1	7.9	7.1	7.2	---	---	---	---	---	---
15	7.3	7.1	7.2	8.1	7.1	7.3	---	---	---	---	---	---
16	7.3	7.1	7.2	7.9	7.2	7.3	---	---	---	---	---	---
17	7.2	7.1	7.2	8.1	7.2	7.4	---	---	---	---	---	---
18	7.2	7.1	7.2	8.0	7.3	7.4	---	---	---	---	---	---
19	7.3	7.1	7.2	7.9	7.2	7.3	---	---	---	---	---	---
20	7.2	7.2	7.2	7.7	7.1	7.2	---	---	---	---	---	---
21	7.3	7.2	7.2	7.5	7.0	7.1	---	---	---	---	---	---
22	7.3	7.1	7.2	7.2	7.0	7.1	---	---	---	---	---	---
23	7.2	7.1	7.1	7.1	7.0	7.0	---	---	---	---	---	---
24	7.1	7.0	7.1	7.1	7.0	7.0	---	---	---	---	---	---
25	7.1	7.0	7.0	7.1	7.0	7.1	---	---	---	---	---	---
26	7.1	7.0	7.0	7.2	6.9	7.1	---	---	---	---	---	---
27	7.4	7.0	7.2	6.9	6.8	6.8	---	---	---	---	---	---
28	7.3	7.1	7.2	7.1	6.9	7.0	---	---	---	---	---	---
29	7.4	7.1	7.2	7.1	7.0	7.1	---	---	---	---	---	---
30	7.4	7.1	7.2	---	---	---	---	---	---	---	---	---
31	7.4	7.0	7.1	---	---	---	---	---	---	---	---	---
MAX	7.4	7.3	7.4	8.1	7.3	7.4	---	---	---	---	---	---
MIN	7.1	7.0	7.0	6.9	6.8	6.8	---	---	---	---	---	---

CHRISTINA RIVER BASIN

01480870 EAST BRANCH BRANDYWINE CREEK BELOW DOWNINGTOWN, PA--Continued

PH, WATER, WHOLE, FIELD, STANDARD UNITS, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DAY	MAX	MIN	MEDIAN	MAX	MIN	MEDIAN	MAX	MIN	MEDIAN	MAX	MIN	MEDIAN
	FEBRUARY			MARCH			APRIL			MAY		
1	---	---	---	7.8	7.4	7.5	7.6	7.5	7.5	8.0	7.5	7.6
2	---	---	---	7.9	7.5	7.6	7.6	7.4	7.5	8.0	7.5	7.6
3	---	---	---	8.0	7.5	7.7	7.7	7.4	7.4	8.1	7.5	7.6
4	---	---	---	8.0	7.5	7.6	7.5	7.4	7.4	8.2	7.5	7.7
5	---	---	---	8.0	7.5	7.6	7.8	7.4	7.6	8.4	7.5	7.6
6	---	---	---	8.1	7.5	7.7	7.9	7.5	7.6	8.4	7.4	7.6
7	---	---	---	8.3	7.5	7.7	8.0	7.5	7.6	8.3	7.4	7.6
8	---	---	---	8.5	7.5	7.6	8.1	7.5	7.6	8.4	7.4	7.6
9	---	---	---	8.5	7.4	7.7	7.9	7.5	7.6	8.3	7.4	7.6
10	---	---	---	8.7	7.5	7.7	8.1	7.5	7.6	---	---	---
11	---	---	---	7.7	7.5	7.6	8.1	7.5	7.6	---	---	---
12	---	---	---	7.8	7.5	7.6	8.4	7.5	7.7	8.0	7.5	7.6
13	---	---	---	8.2	7.6	7.7	8.5	7.5	7.7	8.0	7.5	7.6
14	---	---	---	8.2	7.6	7.7	8.6	7.5	7.7	7.7	7.4	7.5
15	---	---	---	8.3	7.5	7.6	8.2	7.5	7.6	7.7	7.5	7.6
16	---	---	---	8.4	7.5	7.6	8.6	7.4	7.6	7.8	7.5	7.6
17	---	---	---	7.6	7.4	7.5	7.6	7.4	7.5	7.8	7.5	7.6
18	---	---	---	8.0	7.4	7.5	7.8	7.5	7.5	7.8	7.5	7.6
19	---	---	---	8.2	7.5	7.5	8.2	7.5	7.6	7.6	7.5	7.5
20	---	---	---	8.4	7.4	7.6	8.3	7.5	7.6	7.6	7.5	7.6
21	---	---	---	7.7	7.3	7.5	7.6	7.4	7.5	7.6	7.5	7.5
22	---	---	---	---	---	---	7.6	7.4	7.5	7.6	7.5	7.5
23	---	---	---	---	---	---	7.8	7.4	7.5	7.6	7.3	7.5
24	---	---	---	7.4	7.3	7.4	7.8	7.4	7.5	7.5	7.5	7.5
25	7.7	7.4	7.5	7.5	7.4	7.4	7.7	7.4	7.5	7.6	7.4	7.5
26	7.8	7.4	7.5	7.6	7.4	7.5	7.8	7.4	7.5	7.6	7.5	7.5
27	7.8	7.4	7.5	7.5	7.4	7.4	7.7	7.5	7.6	7.7	7.5	7.6
28	7.6	7.4	7.5	7.4	7.4	7.4	7.8	7.5	7.6	7.7	7.5	7.6
29	7.7	7.4	7.5	7.6	7.4	7.5	7.9	7.5	7.6	7.7	7.5	7.6
30	---	---	---	7.6	7.4	7.5	8.0	7.5	7.6	7.8	7.5	7.7
31	---	---	---	7.6	7.5	7.5	---	---	---	7.8	7.6	7.7
MAX	7.8	7.4	7.5	8.7	7.6	7.7	8.6	7.5	7.7	8.4	7.6	7.7
MIN	7.6	7.4	7.5	7.4	7.3	7.4	7.5	7.4	7.4	7.5	7.3	7.5
DAY	MAX	MIN	MEDIAN	MAX	MIN	MEDIAN	MAX	MIN	MEDIAN	MAX	MIN	MEDIAN
	JUNE			JULY			AUGUST			SEPTEMBER		
1	7.9	7.5	7.6	7.9	7.4	7.5	7.9	7.4	7.5	8.1	7.4	7.5
2	7.9	7.5	7.6	7.9	7.5	7.6	7.9	7.4	7.5	8.1	7.5	7.6
3	7.9	7.5	7.6	8.0	7.4	7.6	7.9	7.5	7.5	8.2	7.5	7.6
4	8.0	7.6	7.7	7.8	7.3	7.5	7.5	7.0	7.4	7.9	7.4	7.6
5	8.1	7.6	7.7	---	---	---	7.7	7.4	7.5	8.1	7.5	7.7
6	7.6	7.5	7.6	8.1	7.5	7.7	7.7	7.5	7.6	8.2	7.6	7.7
7	7.8	7.6	7.6	8.1	7.5	7.7	7.8	7.5	7.6	8.2	7.6	7.7
8	8.0	7.5	7.6	8.2	7.6	7.7	7.8	7.5	7.6	8.3	7.6	7.8
9	7.9	7.4	7.6	8.3	7.6	7.7	7.9	7.5	7.6	8.4	7.6	7.7
10	7.9	7.4	7.5	8.2	7.5	7.6	8.1	7.5	7.7	8.3	7.6	7.7
11	7.9	7.4	7.5	8.2	7.4	7.7	8.2	7.6	7.7	8.4	7.6	7.7
12	7.7	7.4	7.4	8.3	7.5	7.6	8.2	7.6	7.7	8.4	7.6	7.7
13	7.4	7.3	7.4	8.2	7.5	7.7	7.8	7.4	7.6	7.6	7.3	7.3
14	7.5	7.4	7.4	7.8	7.5	7.6	7.8	7.6	7.6	7.8	7.3	7.4
15	7.7	7.4	7.5	7.8	7.4	7.6	7.9	7.6	7.6	7.5	7.3	7.5
16	7.8	7.4	7.5	7.9	7.5	7.6	8.1	7.5	7.7	7.8	7.5	7.5
17	7.8	7.4	7.5	8.0	7.5	7.6	8.1	7.6	7.7	7.8	7.5	7.6
18	7.8	7.3	7.4	8.1	7.5	7.6	7.8	7.6	7.7	7.9	7.5	7.6
19	7.3	7.0	7.1	7.7	7.5	7.6	8.1	7.6	7.7	7.6	7.4	7.6
20	7.4	7.2	7.4	8.0	7.6	7.6	8.1	7.6	7.7	7.7	7.3	7.5
21	7.5	7.4	7.4	8.1	7.5	7.6	8.2	7.6	7.7	7.8	7.5	7.6
22	7.4	7.2	7.3	8.1	7.5	7.7	8.3	7.6	7.8	7.8	7.5	7.6
23	7.6	7.3	7.4	8.3	7.6	7.7	8.1	7.6	7.7	7.7	7.5	7.6
24	7.7	7.4	7.5	7.9	7.5	7.6	8.3	7.6	7.7	7.8	7.5	7.6
25	7.7	7.4	7.5	8.1	7.5	7.7	8.2	7.6	7.7	7.8	7.5	7.6
26	7.8	7.4	7.5	7.7	7.5	7.5	8.2	7.6	7.7	7.5	7.3	7.3
27	7.9	7.4	7.6	7.7	7.4	7.5	8.4	7.6	7.7	7.6	7.4	7.5
28	7.8	7.3	7.5	7.9	7.5	7.6	8.0	7.5	7.6	7.7	7.5	7.5
29	7.8	7.3	7.5	7.9	7.5	7.6	7.9	7.4	7.6	7.7	7.5	7.5
30	7.8	7.4	7.5	8.0	7.5	7.6	8.2	7.5	7.6	7.7	7.5	7.5
31	---	---	---	8.1	7.4	7.5	7.9	7.5	7.5	---	---	---
MAX	8.1	7.6	7.7	8.3	7.6	7.7	8.4	7.6	7.8	8.4	7.6	7.8
MIN	7.3	7.0	7.1	7.7	7.3	7.5	7.5	7.0	7.4	7.5	7.3	7.3

CHRISTINA RIVER BASIN

01480870 EAST BRANCH BRANDYWINE CREEK BELOW DOWNINGTOWN, PA--Continued

WATER TEMPERATURE, DEGREES CELSIUS, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
1	17.0	13.5	15.5	15.5	13.0	14.0	---	---	---	---	---	---
2	17.0	14.0	15.5	15.5	13.5	14.0	---	---	---	---	---	---
3	17.5	15.0	16.5	15.5	10.5	12.5	---	---	---	---	---	---
4	17.0	16.0	16.5	10.5	8.5	9.5	---	---	---	---	---	---
5	16.0	13.5	14.5	11.0	7.5	9.0	---	---	---	---	---	---
6	14.5	12.0	13.5	13.0	9.5	11.0	---	---	---	---	---	---
7	14.0	12.0	13.0	11.5	9.5	10.5	---	---	---	---	---	---
8	14.0	11.0	12.5	10.5	8.0	9.0	---	---	---	---	---	---
9	15.5	13.5	14.5	11.5	7.5	9.5	---	---	---	---	---	---
10	16.0	15.0	15.5	13.0	10.0	11.5	---	---	---	---	---	---
11	17.0	15.5	16.0	13.0	10.0	12.0	---	---	---	---	---	---
12	15.5	13.5	14.5	11.0	8.5	9.5	---	---	---	---	---	---
13	15.5	12.5	14.0	12.5	10.0	11.0	---	---	---	---	---	---
14	16.0	13.5	15.0	11.5	9.0	10.5	---	---	---	---	---	---
15	14.0	11.5	13.0	10.0	9.0	9.5	---	---	---	---	---	---
16	15.0	12.0	13.5	9.0	7.0	8.0	---	---	---	---	---	---
17	16.0	14.5	15.0	7.5	5.5	6.5	---	---	---	---	---	---
18	16.0	13.5	15.0	8.0	5.0	6.5	---	---	---	---	---	---
19	13.5	11.5	12.5	9.0	6.0	7.5	---	---	---	---	---	---
20	13.0	12.5	12.5	10.5	7.0	8.5	---	---	---	---	---	---
21	13.0	11.0	12.0	12.5	10.0	11.0	---	---	---	---	---	---
22	13.0	10.5	12.0	12.5	11.0	12.0	---	---	---	---	---	---
23	12.5	11.0	12.0	14.0	12.5	13.0	---	---	---	---	---	---
24	12.0	10.0	11.0	14.5	13.5	14.0	---	---	---	---	---	---
25	12.0	9.5	11.0	14.0	12.5	13.5	---	---	---	---	---	---
26	12.5	9.5	11.0	14.0	12.0	13.0	---	---	---	---	---	---
27	12.5	10.5	11.5	14.0	11.0	12.5	---	---	---	---	---	---
28	12.5	10.0	11.0	11.0	9.0	10.0	---	---	---	---	---	---
29	12.5	9.5	11.0	9.0	8.0	8.5	---	---	---	---	---	---
30	13.5	10.5	12.0	---	---	---	---	---	---	---	---	---
31	14.5	12.0	13.0	---	---	---	---	---	---	---	---	---
MONTH	17.5	9.5	13.4	15.5	5.0	10.6	---	---	---	---	---	---
	FEBRUARY			MARCH			APRIL			MAY		
1	---	---	---	7.0	4.5	6.0	12.5	8.0	10.0	15.0	11.0	13.5
2	---	---	---	7.5	6.0	7.0	12.0	9.5	10.5	16.5	13.5	15.0
3	---	---	---	8.0	5.0	6.5	13.5	11.0	12.0	17.0	12.5	15.0
4	---	---	---	8.0	4.5	6.5	13.5	12.0	13.0	18.0	13.0	16.0
5	---	---	---	9.5	5.5	7.5	12.0	9.0	10.5	19.5	15.5	17.5
6	---	---	---	9.5	6.0	8.0	13.0	8.5	10.5	20.5	16.5	18.5
7	---	---	---	10.0	6.0	8.5	13.5	10.0	12.0	22.0	17.5	19.5
8	---	---	---	12.5	8.5	10.5	15.5	10.5	13.0	23.0	18.5	20.5
9	---	---	---	12.5	10.0	11.5	13.5	8.5	10.5	23.0	19.0	21.0
10	---	---	---	13.0	10.5	12.0	12.5	8.5	10.5	---	---	---
11	---	---	---	11.5	8.5	10.0	11.0	9.5	10.5	---	---	---
12	---	---	---	8.5	6.5	8.0	13.0	10.0	11.0	20.0	16.5	18.5
13	---	---	---	8.5	5.0	7.0	12.0	8.5	10.5	21.0	17.0	19.0
14	---	---	---	9.5	6.0	8.0	12.5	8.5	10.5	19.5	17.0	18.5
15	---	---	---	10.5	6.5	8.5	12.5	10.5	11.5	17.5	14.0	16.0
16	---	---	---	10.5	8.0	9.5	16.5	12.0	14.0	16.5	12.5	15.0
17	---	---	---	10.5	6.5	9.0	16.0	10.5	13.0	17.5	14.0	16.0
18	---	---	---	8.0	4.5	6.5	10.5	9.5	10.0	19.0	16.0	17.0
19	---	---	---	9.0	5.5	7.5	13.0	9.5	11.0	18.0	15.5	17.0
20	---	---	---	9.5	7.0	8.5	15.5	12.0	13.5	15.5	13.0	14.0
21	---	---	---	---	---	---	14.5	11.5	12.5	14.0	13.0	13.5
22	---	---	---	---	---	---	11.5	10.5	11.0	14.0	13.5	13.5
23	---	---	---	---	---	---	12.0	10.5	11.5	14.5	13.0	14.0
24	---	---	---	11.5	7.5	9.5	14.5	10.0	12.5	17.5	14.0	15.5
25	7.5	5.0	6.5	11.5	8.5	10.0	13.5	11.5	12.0	17.0	15.0	16.0
26	7.0	6.0	6.5	12.5	9.0	10.5	13.0	9.5	11.5	18.0	14.0	16.0
27	8.0	6.5	7.0	10.5	7.5	9.5	12.0	10.5	11.0	16.5	14.5	15.0
28	8.5	7.0	8.0	12.0	10.0	11.0	13.5	10.0	11.5	15.5	14.0	14.5
29	8.0	5.0	6.5	10.5	9.0	10.0	15.5	10.5	13.0	16.5	14.0	15.0
30	---	---	---	11.5	7.5	9.5	16.0	12.0	14.0	16.0	14.0	15.0
31	---	---	---	12.0	8.0	10.0	---	---	---	18.0	13.5	15.5
MONTH	8.5	5.0	6.9	13.0	4.5	8.8	16.5	8.0	11.6	23.0	11.0	16.2

CHRISTINA RIVER BASIN

01480870 EAST BRANCH BRANDYWINE CREEK BELOW DOWNINGTOWN, PA--Continued

WATER TEMPERATURE, DEGREES CELSIUS, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	JUNE			JULY			AUGUST			SEPTEMBER		
1	20.0	15.0	17.5	23.0	19.0	21.0	25.0	23.0	24.0	24.0	21.5	22.5
2	22.5	18.0	20.0	24.0	19.5	21.5	25.0	22.5	23.5	23.5	22.0	23.0
3	22.5	19.0	20.5	24.0	21.0	22.5	24.0	23.0	23.5	24.5	22.0	23.0
4	20.0	16.5	18.5	24.5	21.5	23.0	23.0	21.5	22.0	24.0	22.0	23.0
5	19.0	17.0	18.0	---	---	---	23.5	20.5	22.0	22.5	18.5	20.5
6	17.5	15.0	16.0	24.5	20.5	22.5	21.5	19.5	20.5	20.5	16.5	18.5
7	19.0	14.5	16.5	23.5	20.5	21.5	24.5	21.0	22.5	20.0	16.0	17.5
8	20.0	16.0	18.0	23.5	18.5	20.5	25.5	22.0	23.5	20.5	16.5	18.0
9	22.0	17.5	19.5	23.5	18.5	21.0	26.0	23.0	24.5	22.5	18.5	20.0
10	24.0	19.0	21.5	25.0	21.5	23.0	26.0	23.0	24.5	23.0	19.5	21.0
11	25.5	20.5	22.5	25.0	22.0	23.0	25.5	22.0	23.5	22.5	20.0	21.0
12	23.5	21.5	22.5	24.0	20.0	22.0	23.5	21.0	22.5	23.0	20.5	21.5
13	21.5	18.0	19.0	23.5	20.0	21.5	21.0	19.0	20.0	22.0	20.0	21.0
14	18.0	17.0	17.5	21.5	20.0	20.5	20.0	19.5	20.0	21.0	18.0	19.5
15	18.5	17.0	18.0	21.0	20.0	20.5	22.5	18.5	20.5	20.0	18.5	19.5
16	21.0	18.5	19.5	21.5	19.5	20.5	24.5	21.0	22.5	18.5	16.5	17.5
17	23.5	20.0	21.5	22.5	19.5	21.0	23.0	19.5	21.0	18.5	15.0	16.5
18	23.0	21.0	22.0	24.5	20.0	22.0	21.0	19.0	20.0	18.5	15.5	17.0
19	22.5	19.5	20.5	22.0	19.0	20.0	21.5	18.0	19.5	18.0	17.0	17.5
20	22.5	18.0	20.5	22.0	18.0	20.0	21.5	18.0	19.5	19.5	17.0	18.5
21	21.5	19.5	21.0	23.5	18.5	20.5	21.5	17.0	19.0	21.0	18.5	19.5
22	22.5	20.0	21.0	24.0	20.0	21.5	21.0	17.0	19.0	19.0	16.0	17.5
23	23.0	20.0	21.5	23.5	19.5	21.0	20.5	18.5	19.5	17.5	16.5	17.0
24	23.5	20.0	22.0	21.0	20.0	20.5	22.0	19.0	20.5	19.5	17.5	18.5
25	25.0	21.0	23.0	21.5	19.0	20.5	23.5	19.0	21.0	18.0	14.5	17.0
26	25.0	22.5	23.5	20.5	19.5	19.5	22.5	18.5	20.5	14.5	13.0	13.0
27	24.0	22.5	23.5	20.5	19.0	20.0	22.0	19.0	20.5	15.5	13.0	14.5
28	23.0	21.0	22.0	23.5	20.0	21.5	22.5	20.0	21.0	16.0	14.0	15.0
29	22.5	20.5	21.0	23.0	21.5	22.0	21.5	20.0	21.0	15.0	13.0	14.5
30	22.5	19.5	21.0	24.0	21.5	22.5	22.5	20.0	21.0	15.0	12.5	14.0
31	---	---	---	25.5	22.0	23.5	22.5	21.0	21.5	---	---	---
MONTH	25.5	14.5	20.3	25.5	18.0	21.4	26.0	17.0	21.4	24.5	12.5	18.6

OXYGEN, DISSOLVED (MG/L), WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
1	---	---	---	9.6	6.3	7.5	---	---	---	---	---	---
2	---	---	---	7.3	5.9	6.6	---	---	---	---	---	---
3	---	---	---	8.6	6.1	7.7	---	---	---	---	---	---
4	---	---	---	10.1	8.1	9.0	---	---	---	---	---	---
5	---	---	---	10.4	8.3	9.2	---	---	---	---	---	---
6	---	---	---	10.1	7.5	8.7	---	---	---	---	---	---
7	---	---	---	10.5	7.5	8.8	---	---	---	---	---	---
8	---	---	---	11.1	8.2	9.4	---	---	---	---	---	---
9	---	---	---	11.3	8.1	9.5	---	---	---	---	---	---
10	---	---	---	11.3	7.2	8.9	---	---	---	---	---	---
11	---	---	---	10.5	6.7	7.9	---	---	---	---	---	---
12	---	---	---	11.8	7.5	9.2	---	---	---	---	---	---
13	---	---	---	12.4	7.7	9.3	---	---	---	---	---	---
14	---	---	---	12.1	7.4	9.0	---	---	---	---	---	---
15	---	---	---	12.1	7.4	9.2	---	---	---	---	---	---
16	---	---	---	12.5	7.6	9.5	---	---	---	---	---	---
17	---	---	---	13.0	8.3	10.2	---	---	---	---	---	---
18	---	---	---	13.1	8.9	10.4	---	---	---	---	---	---
19	---	---	---	13.0	8.9	10.3	---	---	---	---	---	---
20	---	---	---	12.0	8.3	9.7	---	---	---	---	---	---
21	---	---	---	11.2	7.9	9.0	---	---	---	---	---	---
22	---	---	---	9.8	7.5	8.3	---	---	---	---	---	---
23	---	---	---	9.2	7.2	7.9	---	---	---	---	---	---
24	---	---	---	8.7	7.0	7.6	---	---	---	---	---	---
25	---	---	---	8.7	7.1	7.8	---	---	---	---	---	---
26	---	---	---	9.3	7.9	8.4	---	---	---	---	---	---
27	---	---	---	8.8	7.8	8.3	---	---	---	---	---	---
28	9.6	7.1	8.2	10.2	8.8	9.6	---	---	---	---	---	---
29	10.0	7.5	8.5	10.7	9.7	10.2	---	---	---	---	---	---
30	10.1	7.2	8.3	---	---	---	---	---	---	---	---	---
31	10.0	6.5	7.9	---	---	---	---	---	---	---	---	---
MONTH	10.1	6.5	8.2	13.1	5.9	8.9	---	---	---	---	---	---

CHRISTINA RIVER BASIN

01480870 EAST BRANCH BRANDYWINE CREEK BELOW DOWNINGTOWN, PA--Continued

OXYGEN, DISSOLVED (MG/L), WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
FEBRUARY			MARCH			APRIL			MAY			
1	---	---	---	13.1	10.9	12.0	12.2	10.3	11.2	11.0	8.6	9.6
2	---	---	---	13.1	10.8	11.8	11.6	10.1	10.8	10.4	8.5	9.3
3	---	---	---	12.7	10.2	11.5	11.1	9.3	10.2	11.0	8.2	9.4
4	---	---	---	12.8	10.1	11.3	9.8	8.7	9.3	10.8	7.9	9.2
5	---	---	---	13.0	9.8	11.1	11.8	9.3	10.5	10.7	7.4	8.9
6	---	---	---	13.1	9.8	11.1	11.6	9.5	10.6	10.7	7.1	8.7
7	---	---	---	13.3	9.2	10.9	11.7	9.5	10.5	10.6	6.7	8.4
8	---	---	---	12.8	8.2	10.1	11.5	9.0	10.2	10.6	6.6	8.1
9	---	---	---	12.3	8.0	9.5	11.8	9.1	10.5	10.0	6.4	7.8
10	---	---	---	12.3	6.8	9.1	12.3	10.2	11.1	---	---	---
11	---	---	---	10.5	6.9	9.3	12.4	10.1	11.2	---	---	---
12	---	---	---	11.9	10.2	11.1	12.6	9.1	10.8	10.3	7.6	8.7
13	---	---	---	13.2	9.6	11.4	11.8	8.8	10.2	10.1	7.4	8.5
14	---	---	---	12.4	9.4	10.6	11.4	8.5	9.8	9.5	7.2	8.4
15	---	---	---	12.3	8.9	10.4	10.7	8.4	9.5	10.3	8.2	9.3
16	---	---	---	12.2	9.0	10.2	11.4	7.9	9.4	10.6	8.9	9.7
17	---	---	---	11.6	9.2	10.5	9.8	7.9	9.1	10.2	8.5	9.4
18	---	---	---	13.8	10.9	12.2	11.2	9.6	10.4	9.9	8.0	8.9
19	---	---	---	14.1	10.2	11.9	11.9	9.0	10.7	8.7	8.0	8.3
20	---	---	---	13.9	9.3	11.2	11.0	8.3	9.6	9.7	8.7	9.3
21	---	---	---	12.4	9.3	10.9	9.8	8.4	9.1	9.8	9.2	9.5
22	---	---	---	---	---	---	10.0	9.3	9.6	9.6	9.2	9.3
23	---	---	---	---	---	---	10.5	9.3	9.8	9.6	9.0	9.3
24	---	---	---	11.7	10.8	11.2	10.6	9.0	9.7	9.2	8.4	8.9
25	13.2	11.4	12.3	11.9	10.8	11.3	10.5	8.9	9.7	9.4	8.4	8.9
26	13.3	11.5	12.3	11.7	11.0	11.2	10.4	9.1	9.6	9.5	8.5	9.1
27	12.9	11.1	12.0	12.0	10.5	11.5	10.3	9.1	9.7	9.6	8.5	9.1
28	12.0	11.2	11.6	11.1	10.4	10.7	10.5	9.0	9.8	9.9	8.9	9.3
29	13.0	11.3	12.2	11.8	10.6	11.3	10.4	8.6	9.5	9.9	8.7	9.3
30	---	---	---	12.3	10.7	11.5	10.5	8.6	9.4	10.1	8.7	9.4
31	---	---	---	12.2	10.6	11.3	---	---	---	10.2	8.6	9.3
MONTH	13.3	11.1	12.1	14.1	6.8	11.0	12.6	7.9	10.1	11.0	6.4	9.0

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
JUNE			JULY			AUGUST			SEPTEMBER			
1	9.9	7.5	8.9	9.5	7.6	8.4	9.0	6.7	7.6	9.3	6.8	7.7
2	9.1	6.6	7.9	9.7	7.6	8.4	9.1	6.7	7.7	9.1	6.5	7.6
3	8.4	6.4	7.1	9.9	7.1	8.4	9.0	6.7	7.7	9.3	6.8	7.7
4	8.4	6.4	7.2	9.4	7.1	8.1	8.1	7.2	7.7	8.8	7.0	7.6
5	8.2	6.5	7.1	---	---	---	8.6	7.7	8.1	9.7	7.0	8.1
6	6.9	6.3	6.6	10.1	7.4	8.5	8.9	7.7	8.4	10.2	7.7	8.7
7	7.6	6.1	6.9	10.0	7.6	8.6	8.9	7.5	8.2	10.3	7.8	8.7
8	---	---	---	10.7	7.9	9.0	8.9	7.3	8.0	10.5	7.7	8.8
9	---	---	---	11.0	7.6	9.0	9.1	7.1	7.9	10.2	7.2	8.4
10	9.7	7.0	8.2	10.1	7.0	8.1	9.2	7.1	7.9	10.5	7.0	8.3
11	9.6	6.6	8.0	10.2	6.8	8.2	9.6	7.1	8.1	10.3	6.9	8.2
12	9.4	6.6	7.8	9.7	7.0	8.1	9.7	7.1	8.2	10.3	6.8	8.1
13	8.7	7.2	8.2	9.7	7.0	8.0	9.0	7.8	8.3	7.7	6.6	7.2
14	9.6	8.4	8.9	8.7	7.1	7.7	8.7	7.8	8.2	9.2	7.4	8.2
15	9.9	8.4	9.1	8.6	7.0	7.7	9.3	7.3	8.4	8.5	7.6	8.0
16	9.9	7.9	8.8	9.0	7.2	7.8	9.0	7.0	7.7	9.4	7.9	8.6
17	9.7	7.4	8.5	9.1	7.2	8.0	8.9	6.8	7.7	9.7	8.2	8.8
18	9.4	7.1	7.9	9.2	7.1	7.9	7.9	6.8	7.3	10.1	8.1	8.9
19	8.3	7.3	8.0	8.4	7.0	7.7	9.3	7.3	8.1	8.7	8.0	8.3
20	9.1	7.8	8.5	9.3	7.6	8.5	9.7	7.4	8.3	9.2	7.9	8.5
21	8.9	7.8	8.3	9.6	7.4	8.4	9.9	7.8	8.6	9.2	7.8	8.3
22	8.2	7.4	7.8	9.4	7.3	8.2	10.3	7.9	8.8	9.7	7.9	8.7
23	8.3	7.4	7.8	10.0	7.3	8.5	10.0	7.7	8.6	9.1	8.2	8.5
24	8.3	7.1	7.7	9.4	7.5	8.4	10.2	7.1	8.6	9.6	7.9	8.5
25	8.3	6.9	7.6	10.4	7.8	9.0	9.9	6.8	7.9	9.6	7.9	8.6
26	8.5	6.9	7.6	8.5	7.6	8.1	9.9	6.8	7.9	9.4	8.9	9.3
27	8.8	6.9	7.8	9.1	8.0	8.5	9.8	6.7	7.9	9.6	8.7	9.3
28	8.9	7.2	7.9	9.3	7.4	8.3	9.5	6.6	7.6	9.9	8.8	9.2
29	9.1	7.4	8.1	9.2	7.3	8.1	9.1	6.6	7.6	10.0	9.0	9.4
30	9.3	7.7	8.3	9.4	7.1	8.1	9.5	6.9	7.9	10.1	9.0	9.5
31	---	---	---	9.1	6.7	7.7	8.8	6.9	7.6	---	---	---
MONTH	9.9	6.1	7.9	11.0	6.7	8.2	10.3	6.6	8.0	10.5	6.5	8.5

CHRISTINA RIVER BASIN

01480870 EAST BRANCH BRANDYWINE CREEK BELOW DOWNINGTOWN, PA--Continued

CROSS-SECTION ANALYSES, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	TIME	OXYGEN, DIS- SOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	SPE- CIFIC CON- DUCT- ANCE (μ S/CM) (00095)	TEMPER- ATURE WATER (DEG C) (00010)	SAMPLE LOC- ATION, CROSS SECTION (FT FM R BK) (72103)	SAM- PLING DEPTH (FEET) (00003)
AUG							
04...	1028	8.2	7.4	174	21.8	2	.5
04...	1030	8.3	7.4	174	21.8	4	.5
04...	1031	8.4	7.4	175	21.8	6	.5
04...	1035	8.4	7.4	175	21.8	8	.5
04...	1036	8.4	7.4	176	21.8	10	.5
04...	1037	8.3	7.4	176	21.8	12	.5
04...	1038	8.3	7.4	176	21.8	14	.5
04...	1039	8.3	7.4	176	21.8	16	.5
04...	1040	8.3	7.4	176	21.8	18	.5
04...	1041	8.4	7.4	177	21.8	22	.5
04...	1042	8.3	7.4	177	21.8	24	.5
04...	1043	8.3	7.4	177	21.8	26	.5
04...	1044	8.4	7.4	177	21.8	30	.5
04...	1045	8.3	7.4	177	21.8	32	.5
04...	1046	8.2	7.4	178	21.8	34	.5
04...	1048	8.2	7.4	178	21.8	36	.5
04...	1049	8.3	7.4	178	21.8	38	.5
04...	1050	8.3	7.4	178	21.8	40	.5
04...	1051	8.4	7.4	178	21.8	44	.5
04...	1052	8.3	7.4	179	21.8	50	.5
04...	1053	8.3	7.4	179	21.8	52	.5
04...	1054	8.3	7.4	179	21.8	56	.5
04...	1055	8.3	7.4	179	21.8	60	.5
04...	1056	8.3	7.4	179	21.8	62	.5
04...	1057	8.2	7.4	179	21.8	64	.5
04...	1058	8.2	7.4	179	21.8	68	.5
04...	1059	8.2	7.4	179	21.8	72	.5
04...	1100	8.3	7.4	179	21.8	76	.5