01481000 BRANDYWINE CREEK AT CHADDS FORD, PA

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 mi².

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 sea level. Prior to May 21, 1927, nonrecording gage at same site and datum.

REMARKS.--Records good except those for estimated daily discharges, which are fair. 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 ft³/s.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001 DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	237	150	246	213	812	351	931	323	349	189	108	106
2	206	149	229	202	557	342	815	313	733	194	105	101
3	188	148	178	190	449	330	723	304	438	169	100	96
4	180	147	165	212	365	361	644	297	360	166	99	111
5	1010	148	171	211	964	489	553	293	329	178	197	162
6	308	146	165	207	868	424	555	285	312	192	119	107
7	236	146	161	202	685	387	562	273	302	165	112	100
8	204	149	159	211	619	457	526	273	285	158	108	100
9	193	151	158	227	536	469	522	276	270	168	101	96
10	185	274	154	207	1440	424	625	277	255	179	106	96
11	180	225	161	200	698	366	568	265	248	236	200	104
12	172	172	162	203	500	344	724	258	299	179	279	101
13	168	159	155	214	484	987	625	250	264	151	799	95
14	164	187	641	216	477	608	547	242	246	142	223	116
15	160	207	472	307	495	457	515	238	244	135	163	110
16	160	175	268	321	490	542	711	233	400	134	147	96
17	160	169	4680	243	744	895	620	229	508	133	136	92
18	203	163	2300	223	486	594	671	243	305	137	131	91
19	226	158	646	1040	419	499	640	251	259	151	129	90
20	229	159	495	1900	412	465	534	242	240	135	140	176
21	221	162	e400	681	412	980	463	425	231	125	141	627
22	194	157	e370	388	383	1460	446	765	234	122	123	177
23	160	152	e310	349	393	730	425	624	480	120	118	124
24	161	151	e300	347	339	605	412	389	335	117	118	118
25	164	151	e280	310	367	514	389	321	245	113	113	680
26 27 28 29 30 31	162 154 158 154 153 156	554 415 242 249 271	e270 e260 e260 e250 e220 213	279 284 269 252 1310 1440	622 460 382 	479 442 422 416 2500 1280	370 374 425 409 398	1070 1980 801 534 400 354	219 201 195 187 183	113 121 113 109 119 114	112 110 106 104 101 138	285 210 186 172 122
TOTAL	6606	5886	14899	12858	15858	19619	16722	13028	9156	4577	4786	4847
MEAN	213	196	481	415	566	633	557	420	305	148	154	162
MAX	1010	554	4680	1900	1440	2500	931	1980	733	236	799	680
MIN	153	146	154	190	339	330	370	229	183	109	99	90

e Estimated.

01481000 BRANDYWINE CREEK AT CHADDS FORD, PA--Continued

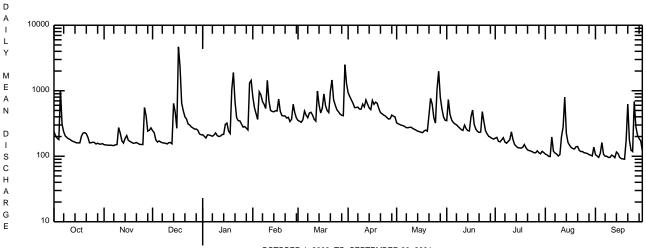
STAT	ISTICS OF	MONTHLY M	EAN DATA	FOR WATER	YEARS 197	4 - 2001,	BY WATER	R YEAR (WY)	(SINCE	REGULATIC	<u>) (N</u>	
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN MAX	272 924	323 751	465 1634	541 1664	545 1308	672 1713	630 1509	519 1097	382 833	332 1153	235 562	276 906
(WY)	1997	1997	1997	1979	1979	1994	1983	1989	1975	1975	1996	1979
MIN	113	114	112	106	217	195	200	249	153	95.8	94.5	93.2
(WY)	1998	1999	1999	1981	1992	1981	1985	1999	1999	1999	1995	1980

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR	FOR 2001 WATER YEAR	WATER YEARS 1974 - 2001
ANNUAL TOTAL	159903	128842	
ANNUAL MEAN	437	353	432
HIGHEST ANNUAL MEAN			714 1984
LOWEST ANNUAL MEAN			199 1981
HIGHEST DAILY MEAN	8860 Mar 22	4680 Dec 17	10600 Jan 26 1978
LOWEST DAILY MEAN	130 Sep 11	90 Sep 19	47 Aug 5 1999
ANNUAL SEVEN-DAY MINIMUM	133 Sep 6	99 Sep 13	50 Aug 2 1999
MAXIMUM PEAK FLOW		8400 Dec 17	a 26900 Sep 17 1999
MAXIMUM PEAK STAGE		10.65 Dec 17	17.15 Sep 17 1999
INSTANTANEOUS LOW FLOW		87 Sep 19	8.4 Sep 13 1980
10 PERCENT EXCEEDS	786	645	810
50 PERCENT EXCEEDS	284	242	297
90 PERCENT EXCEEDS	158	115	126

STATIS	TICS OF	MONTHLY	MEAN DATA	FOR WATER	YEARS 1	1911-1953,	1963-1973,	BY WATER	R YEAR (WY)	(<u>PRIO</u>	R TO REGU	LATION)
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN MAX (WY) MIN (WY)	219 666 1972 67.7 1964	301 625 1972 98.3 1942	348 827 1973 114 1966	444 1020 1936 145 1966	570 1130 1971 214 1934	605 1366 1920 247 1931	530 1043 1973 226 1963	435 946 1952 175 1926	364 1144 1972 149 1963	309 802 1919 91.1 1963	278 1089 1933 82.1 1930	230 1050 1971 59.4 1932

SUMMARY STATISTICS	WATER YEARS	3 1911-1953 1963-1973
ANNUAL MEAN HIGHEST ANNUAL MEAN LOWEST ANNUAL MEAN HIGHEST DAILY MEAN LOWEST DAILY MEAN ANNUAL SEVEN-DAY MINIMUM MAXIMUM PEAK FLOW MAXIMUM PEAK STAGE INSTANTANEOUS LOW FLOW ANNUAL RUNOFF (INCHES) 10 PERCENT EXCEEDS 90 PERCENT EXCEEDS	385 625 218 9590 42 45 b 23800 16.56 4.9 1.34 18.23 700 274 118	1928 1932 Aug 24 1933 Sep 12 1966 Sep 7 1966 Jun 22 1972 Jun 22 1972 Oct 2 1942

a From rating curve extended above 13,200 ft³/s on basis of area-velocity study at gage height 16.56 ft.
 b From rating curve extended above 9,000 ft³/s on basis of area-velocity study.



OCTOBER 1, 2000 TO SEPTEMBER 30, 2001

01481000 BRANDYWINE CREEK AT CHADDS FORD, PA--Continued

WATER-QUALITY RECORDS

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

PERIOD OF DAILY RECORD.--SPECIFIC CONDUCTANCE: October 1965 to current year. PECIFIC 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 records rated good except for period, Oct. 20 to Nov. 15, which is fair. pH and water temperature records rated good. Dissolved oxygen records rated good except for periods, Mar. 6-8, Apr. 4-13, May 8-23, Aug. 15 to Sept. 13, and Sept. 25-30, which are 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, 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 18, 19, 1977, Aug. 15, 1988, July 6, 1999; 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 2000 TO SEPTEMBER 2001

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)	$\begin{array}{c} \text{SPE-} \\ \text{CIFIC} \\ \text{CON-} \\ \text{DUCT-} \\ \text{ANCE} \\ (\mu\text{S/CM}) \\ (00095) \end{array}$	TEMPER- ATURE WATER (DEG C) (00010)	COLI- FORM, FECAL, 0.7 µM-MF (COLS./ 100 ML) (31625)
MAR 2001									
08	1345	1028	1028	469	14.0	8.3	363	5.3	120
21	1330	1028	1028	555	11.4	7.7	269	7.1	E46
APR									
03	1400	1028	1028	707	11.8	7.4	271	8.7	62
17	1400	1028	1028	583	11.2	7.6	266	11.5	70
MAY	1 2 2 2	1	1000	215			0.05	1	5.0
02	1330	1028	1028	315	9.8	7.5	295	17.9	50
14 23	1330 1200	1028 1028	1028 1028	241 659	10.6 8.7	7.7 7.3	314 247	17.4 16.9	85 2900
JUN	1200	1020	1020	059	0./	1.5	247	10.9	2900
05	1200	1028	1028	330	9.4	7.4	280	18.4	140
13	1530	1028	1028	274	9.1	7.6	295	24.8	240
26	1345	1028	1028	217	8.9	7.4	296	23.9	320
JUL									
09	1220	1028	1028	167	9.2	7.3	326	22.8	110
16	1330	1028	1028	135	9.7	7.3	329	24.0	E62
23	1500	1028	1028	121	10.4	7.9	343	25.8	60
AUG									
01	1200	1028	1028	106	8.9	7.4	358	22.6	88
15 SEP	1130	1028	1028	159	7.2	7.1	264	24.5	410
13	1250	1028	1028	95	9.0	7.4	366	21.7	31
25	1310	1028	1028	1140	7.3	7.0	325	20.0	2400

01481000 BRANDYWINE CREEK AT CHADDS FORD, PA--Continued

SPECIFIC CONDUCTANCE, MICROSIEMENS PER CENTIMETER AT 25° CELSIUS, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN									
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	296	285	292	337	324	329						
2 3	300 321	294 300	296 314	326 338	313 322	320 332						
4	324	315	322	330	314	323						
5				320	315	318						
б				330	320	324						
7				358	316	324						
8 9				320 309	305 297	312 303						
10	325	320	322	352	297	317						
11	333	324	329	311	284	292						
12	344	327	335	304	279	289						
13 14	347 351	338 320	342 338	309 314	290 297	300 304						
15	331	302	318	319	294	304						
1.0	21.0	200	210	211	000	204						
16 17	318 341	306 316	312 328	311 313	298 305	304 309						
18	355	335	343	318	312	315						
19 20	370 332	331 299	350 315	325 331	315 320	318 324						
21	325	296	306	328	322	326						
22 23	321 325	292 310	307 316	328 339	323 323	326 328						
24	328	315	322	333	315	324						
25	328	317	323	322	316	319						
26	323	311	318	326	237	292						
27 28	335 358	319 332	326	270 294	236	248 277						
28 29	358	332	342 343	306	262 288	295						
30	340	335	337	292	285	289						
31	344	327	333									
MONTH	370	285	324	358	236	310						
DAY	MAX	MIN	MEAN									
	1	FEBRUARY			MARCH			APRIL			MAY	
1				312	303	308	265	244	252	291	284	288
2				311	302	307	273	258	264	295	288	292
3 4				305 307	296 296	300 301	275 264	251 252	265 257	307 312	294 299	303 304
5				451	298	359	270	261	267	319	307	314
6				689	451	599	275	265	269	315	305	310
7				526	390	439	275	265	209	318	305	314
8				395	356	381	271	265	268	318	306	312
9 10				357 383	326 331	343 350	279 270	262 260	270 263	320 323	308 314	316 319
11 12				331 323	311 308	321 315	273 265	263 252	268 260	334 321	317 311	325 316
13				320	265	289	270	259	265	321	312	318
14				295 300	266	282	274	266	269	315	309	313
15				300	295	297	277	267	272	316	306	312
16				304	280	295	269	253	262	316	306	311
17 18				291 287	269 278	276 283	272 272	252 259	261 264	309 305	299 297	304 302
19				291	283	287	264	256	260	307	303	305
20				293	280	287	271	264	268	310	305	308
21				286	224	269	277	268	273	314	279	294
22				278	213	250	284	273	277	279	231	259
23 24				275 277	259 269	267 273	290 293	283 283	287 287	249 274	229 248	241 258
25				285	272	277	299	291	295	285	274	281
26				287	282	285	292	287	289	291	191	252
27				287	278	283	296	289	293	204	155	179
28 29	324	310	316	289 296	282 283	286 287	299 289	281 282	291 286	242 258	191 242	223 250
29 30				296 291	283 153	287 196	289 286	282	286 283	258	242 258	250 268
31				246	176	216				282	275	278
MONTH	324	310	316	689	153	307	299	244	272	334	155	289

01481000 BRANDYWINE CREEK AT CHADDS FORD, PA--Continued

SPECIFIC CONDUCTANCE, MICROSIEMENS PER CENTIMETER AT 25° CELSIUS, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST		5	SEPTEMBE	R
1 2 3 4 5	287 271 268 276 283	271 230 239 268 274	281 246 255 272 278	348 325 328 335 335	322 320 320 324 317	324 322 324 327 325	394 392 373 399 363	343 342 354 360 351	352 352 363 368 358	339 356 361 369 343	305 339 353 338 325	318 352 356 356 333
6 7 8 9 10	286 288 291 289 288	281 283 284 284 283	284 286 288 287 286	332 325 322 339 341	318 310 307 322 318	326 319 311 328 334	361 327 390 377 433	300 301 325 353 346	328 315 346 362 373	341 343 364 369 366	327 307 315 362 358	332 324 344 364 362
11 12 13 14 15	297 308 309 328	285 293 304 305	289 301 307 321	329 325 323 318 298	305 291 291 269 237	319 311 307 298 268	395 337 330 256 293	337 268 191 201 253	351 298 231 222 273	365 368 367 373 375	356 362 358 345 345	360 365 362 354 356
16 17 18 19 20	352 275 281 293 309	252 252 265 281 293	314 267 273 289 301	335 336 339 337	325 327 330 328	329 332 334 331	326 342 351 351 378	292 326 341 346 336	308 334 344 348 347	362 393 372 394 394	355 361 365 367 342	358 368 368 372 373
21 22 23 24 25	306 309 310 260 277	300 301 211 211 260	303 304 287 240 270	339 345 381 364 372	321 331 338 343 344	327 337 344 349 350	351 347 353 344 346	345 327 327 331 339	348 340 340 336 342	342 318 364 411 379	210 250 318 358 211	247 289 338 372 298
26 27 28 29 30 31	298 309 317 324 326 	277 297 304 313 319	290 303 311 319 323	353 368 353 374 359 382	342 341 343 345 347 349	347 345 347 350 351 355	348 380 374 361 387 352	339 344 351 351 341 334	345 350 357 356 355 340	267 298 321 327 339	214 261 298 321 327	246 283 309 325 334
MONTH	352	211	289	382	237	329	433	191	335	411	210	337

PH, WATER, WHOLE, FIELD, STANDARD UNITS, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN I	MEDIAN	MAX	MIN	MEDIAN	MAX	MIN	MEDIAN	MAX	MIN	MEDIAN
		OCTOBER		N	OVEMBE	R	D	ECEMBE	R		JANUAR	Y
1 2 3 4 5	7.8 7.7 7.8 7.8	7.7 7.6 7.6 7.5	7.7 7.7 7.7 7.7	7.9 8.0 7.9 8.0 8.0	7.6 7.6 7.5 7.5 7.6	7.7 7.7 7.6 7.6 7.6	 	 	 	 	 	
6 7 8 9 10	 7.8	 7.7	 7.7	8.0 8.3 8.4 8.2 7.5	7.6 7.5 7.6 7.5 7.2	7.7 7.8 7.8 7.6 7.3	 	 	 	 	 	
11 12 13 14 15	7.8 7.7 7.7 7.8 8.0	7.7 7.5 7.5 7.5 7.5	7.7 7.6 7.6 7.6 7.7	7.3 7.5 7.6 7.4 7.7	7.2 7.3 7.3 7.3 7.3 7.3	7.3 7.3 7.4 7.4 7.4	 	 	 	 	 	
16 17 18 19 20	7.8 7.6 7.5 7.5 7.6	7.5 7.4 7.4 7.3 7.4	7.6 7.5 7.4 7.4 7.5	7.9 7.9 8.2 8.2 8.3	7.5 7.5 7.6 7.6 7.7	7.6 7.7 7.8 7.8 7.9	 	 	 	 	 	
21 22 23 24 25	7.6 7.5 7.5 7.6 7.6	7.3 7.3 7.4 7.4 7.5	7.5 7.4 7.4 7.5 7.5	8.4 8.4 8.3 8.2 8.2	7.8 7.8 7.8 7.7 7.8	8.0 8.0 7.9 7.9 7.8	 	 	 	 	 	
26 27 28 29 30 31	7.6 7.8 7.8 7.8 7.8 7.8 7.8 7.9	7.4 7.5 7.5 7.6 7.6	7.4 7.5 7.6 7.6 7.6 7.6 7.7	7.8 7.2 7.3 7.4 7.4	7.2 7.2 7.3 7.3	7.5 7.2 7.3 7.3 7.4	 	 	 	 	 	
MAX MIN	8.0 7.5	7.7 7.3	7.7 7.4	8.4 7.2	7.8 7.2	8.0 7.2						

01481000 BRANDYWINE CREEK AT CHADDS FORD, PA--Continued

PH, WATER, WHOLE, FIELD, STANDARD UNITS, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEDIAN	MAX	MIN	MEDIAN	MAX	MIN	MEDIAN	MAX	MIN	MEDIAN
	1	FEBRUAR	Y		MARCH			APRIL			MAY	
1				8.0	7.6	7.8	7.4	7.3	7.3	7.5	7.2	7.4
2 3				8.1 8.3	7.7 7.7	7.9 7.9	7.4 7.7	7.2 7.3	7.3 7.3	7.5 7.5	7.2 7.2	7.4 7.3
4 5				8.2 8.1	7.7 7.6	7.8 7.7	7.9 8.0	7.4 7.4	7.6 7.6	7.6 7.4	7.2 7.2	7.3 7.3
6				8.3	7.7	8.0	7.8	7.4	7.6	7.5	7.2	7.3
7 8				8.5 8.6	7.7 7.7	8.2	7.8 8.0	7.4 7.4	7.6 7.6	7.5 7.6	7.3 7.2	7.4 7.4
9				8.6	7.7	8.3	8.3	7.4	7.8	7.5	7.3	7.4
10				8.7	7.7	8.3	8.2	7.4	7.7	7.6	7.3	7.4
11 12				8.8 8.8	7.8 7.9	8.5 8.6	7.9 7.7	7.4 7.3	7.5 7.4	7.7 7.6	7.3 7.3	7.5 7.4
13 14				8.7 7.7	7.6 7.4	7.7 7.6	7.7 8.0	7.3 7.3	7.4 7.6	7.7 7.7	7.3 7.3	7.5 7.5
15				7.8	7.4	7.6	7.8	7.3	7.7	7.8	7.4	7.5
16				7.8	7.4	7.6	7.7	7.3	7.5	7.7	7.4	7.5
17 18				7.6 8.1	7.4 7.4	7.5 7.6	7.9 8.1	7.3 7.4	7.5 7.7	7.5 7.4	7.4 7.3	7.4 7.3
19 20				8.2 8.3	7.5 7.5	7.8 7.9	8.1 8.0	7.4 7.4	7.7 7.7	7.6 7.4	7.3 7.3	7.4 7.4
21				8.3	7.3	7.5	7.8	7.3	7.6	7.3	7.3	7.3
22				7.4	7.2	7.2	8.2	7.3	7.6	7.3	7.2	7.2
23 24				7.5 7.5	7.2 7.3	7.3 7.4	8.0 7.7	7.3 7.3	7.7 7.5	7.4 7.4	7.2 7.3	7.3 7.3
25				7.7	7.3	7.4	7.6	7.3	7.4	7.4	7.3	7.3
26 27				7.8 7.9	7.4 7.5	7.6 7.7	7.6 7.6	7.4 7.3	7.5 7.5	7.3 7.3	7.2 7.1	7.3 7.2
28	7.9	7.6	7.7	8.0	7.5	7.7	7.6	7.3	7.4	7.3	7.2	7.3
29 30				8.0 7.8	7.5 7.3	7.8 7.3	7.5 7.5	7.3 7.3	7.4 7.4	7.4 7.5	7.2 7.3	7.3 7.4
31				7.3	7.3	7.3				7.5	7.4	7.4
MAX MIN	7.9 7.9	7.6 7.6	7.7 7.7	8.8 7.3	7.9 7.2	8.6 7.2	8.3 7.4	7.4 7.2	7.8 7.3	7.8 7.3	7.4 7.1	7.5 7.2
DAY	MAX	MIN	MEDIAN	MAX	MIN	MEDIAN	MAX	MIN	MEDIAN	MAX	MIN	MEDIAN
DAY	MAX	MIN JUNE	MEDIAN	MAX	MIN JULY	MEDIAN		MIN AUGUST	MEDIAN		MIN SEPTEMBE	
1	7.5	JUNE 7.4	7.4	7.8	JULY 7.2	7.3		AUGUST	7.4	ء 8.0	ЕРТЕМВ Е 7.1	ER 7.3
1 2	7.5 7.4	JUNE 7.4 7.3	7.4 7.3	7.8 7.6	JULY 7.2 7.2	7.3 7.3	8.0 8.0	AUGUST 7.2 7.3	7.4 7.4	8.0 8.2	7.1 7.2	ER 7.3 7.4
1 2 3 4	7.5 7.4 7.4 7.5	JUNE 7.4 7.3 7.2 7.3	7.4 7.3 7.3 7.4	7.8 7.6 7.7 7.6	JULY 7.2 7.2 7.2 7.2 7.2	7.3 7.3 7.4 7.3	8.0 8.0 8.0 7.7	AUGUST 7.2 7.3 7.3 7.3 7.3	7.4 7.4 7.4 7.4 7.4	8.0 8.2 8.2 8.2 8.2	7.1 7.2 7.3 7.3 7.3	ER 7.3 7.4 7.4 7.4 7.4
1 2 3 4 5	7.5 7.4 7.4 7.5 7.6	JUNE 7.4 7.3 7.2 7.3 7.3	7.4 7.3 7.3 7.4 7.4	7.8 7.6 7.7 7.6 7.6	JULY 7.2 7.2 7.2 7.2 7.2 7.2	7.3 7.3 7.4 7.3 7.3	8.0 8.0 8.0 7.7 7.6	AUGUST 7.2 7.3 7.3 7.3 7.3 7.2	7.4 7.4 7.4 7.4 7.4	8.0 8.2 8.2 8.2 8.2 8.0	7.1 7.2 7.3 7.3 7.2 7.2	ER 7.3 7.4 7.4 7.4 7.4 7.4
1 2 3 4 5 6 7	7.5 7.4 7.5 7.6 7.6 7.8	JUNE 7.4 7.3 7.2 7.3	7.4 7.3 7.3 7.4 7.4 7.4 7.5	7.8 7.6 7.7 7.6	JULY 7.2 7.2 7.2 7.2 7.2 7.2 7.2 7.2	7.3 7.4 7.3 7.3 7.3 7.3 7.3 7.3	8.0 8.0 7.7 7.6 7.6 7.4	AUGUST 7.2 7.3 7.3 7.3 7.2 7.1 7.0	7.4 7.4 7.4 7.4 7.4 7.4 7.2 7.1	8.0 8.2 8.2 8.2 8.2	7.1 7.2 7.3 7.3 7.2 7.3 7.2 7.3 7.3	ER 7.3 7.4 7.4 7.4 7.4 7.4 7.3 7.3
1 2 3 4 5 6	7.5 7.4 7.5 7.6 7.8 7.9	JUNE 7.4 7.3 7.2 7.3 7.3 7.3	7.4 7.3 7.4 7.4 7.4 7.5 7.6	7.8 7.6 7.7 7.6 7.6 7.6	JULY 7.2 7.2 7.2 7.2 7.2 7.2 7.2	7.3 7.4 7.3 7.3 7.3 7.3 7.3 7.3 7.2	8.0 8.0 7.7 7.6 7.6	AUGUST 7.2 7.3 7.3 7.3 7.2 7.1	7.4 7.4 7.4 7.4 7.4 7.4 7.2	8.0 8.2 8.2 8.2 8.2 8.0 8.1	7.1 7.2 7.3 7.3 7.2 7.3 7.2 7.3 7.3 7.3 7.3 7.3	ER 7.3 7.4 7.4 7.4 7.4 7.4 7.3
1 2 3 4 5 6 7 8	7.5 7.4 7.5 7.6 7.6 7.8	JUNE 7.4 7.3 7.2 7.3 7.3 7.3 7.3 7.3 7.4	7.4 7.3 7.3 7.4 7.4 7.4 7.5	7.8 7.6 7.6 7.6 7.6 7.6 7.6 7.6 7.4	JULY 7.2 7.2 7.2 7.2 7.2 7.2 7.2 7.2 7.2 7.2	7.3 7.4 7.3 7.3 7.3 7.3 7.3 7.3	8.0 8.0 7.7 7.6 7.6 7.4 7.7	AUGUST 7.2 7.3 7.3 7.3 7.2 7.1 7.0 7.1	7.4 7.4 7.4 7.4 7.4 7.2 7.1 7.2	8.0 8.2 8.2 8.2 8.0 8.1 8.1 8.1	7.1 7.2 7.3 7.3 7.2 7.3 7.2 7.3 7.3	ER 7.3 7.4 7.4 7.4 7.4 7.4 7.4 7.3 7.3 7.3 7.4
1 2 3 4 5 6 7 8 9 10 11	7.5 7.4 7.5 7.6 7.8 7.9 8.1 8.2 8.4	JUNE 7.4 7.3 7.2 7.3 7.3 7.3 7.3 7.4 7.4 7.3 7.4 7.4 7.3 7.4	7.4 7.3 7.4 7.4 7.4 7.5 7.6 7.6 7.7 7.8	7.8 7.6 7.6 7.6 7.6 7.6 7.4 7.7 7.6 7.4	JULY 7.2 7.2 7.2 7.2 7.2 7.2 7.2 7.2 7.2 7.2	7.3 7.4 7.3 7.3 7.3 7.3 7.2 7.3 7.3 7.2 7.3 7.2	8.0 8.0 7.7 7.6 7.4 7.7 7.7 7.6 7.2	AUGUST 7.2 7.3 7.3 7.2 7.1 7.0 7.1 7.1 7.2 7.1 7.1	7.4 7.4 7.4 7.4 7.2 7.1 7.2 7.2 7.2 7.2 7.2	8.0 8.2 8.2 8.2 8.0 8.1 8.1 8.1 7.9 7.8	3EPTEMBE 7.1 7.2 7.3 7.3 7.2 7.3 7.3 7.3 7.3 7.3 7.3 7.2 7.2 7.2	FR 7.3 7.4 7.4 7.4 7.4 7.4 7.3 7.3 7.4 7.4 7.4 7.4 7.3
1 2 3 4 5 6 7 8 9 10 11 12 13	7.5 7.4 7.5 7.6 7.6 7.8 7.9 8.1 8.2 8.4 7.7	JUNE 7.4 7.3 7.2 7.3 7.3 7.3 7.3 7.4 7.4 7.4 7.3 7.4 7.4 7.3	7.4 7.3 7.4 7.4 7.4 7.5 7.6 7.6 7.6 7.7 7.8 7.5	7.8 7.6 7.6 7.6 7.6 7.6 7.4 7.4 7.5	JULY 7.2 7.2 7.2 7.2 7.2 7.2 7.2 7.2 7.2 7.1 7.2 7.1 7.2	7.3 7.4 7.3 7.3 7.3 7.3 7.3 7.3 7.3 7.2 7.3 7.2 7.2 7.2 7.2	8.0 8.0 7.7 7.6 7.6 7.4 7.7 7.7 7.6 7.2 7.2 7.1	AUGUST 7.2 7.3 7.3 7.2 7.1 7.0 7.1 7.1 7.2 7.1 7.2 7.1 7.2 7.1 6.8	7.4 7.4 7.4 7.4 7.2 7.1 7.2 7.2 7.2 7.2 7.1 7.1 7.0	8.0 8.2 8.2 8.0 8.1 8.1 8.1 8.1 7.9 7.8 7.8 7.8 7.8	EPTEMBI 7.1 7.2 7.3 7.3 7.2 7.3 7.3 7.3 7.3 7.3 7.3 7.2 7.2 7.2 7.2	ER 7.3 7.4 7.4 7.4 7.4 7.4 7.3 7.4 7.4 7.4 7.4 7.4 7.4 7.4 7.4
1 2 3 4 5 6 7 8 9 10 11 12	7.5 7.4 7.5 7.6 7.6 7.9 8.1 8.2 8.4	JUNE 7.4 7.3 7.2 7.3 7.3 7.3 7.3 7.4 7.4 7.4 7.4 7.4 7.4 7.4 7.4 7.4 7.4	7.4 7.3 7.4 7.4 7.4 7.5 7.6 7.6 7.7 7.8 	7.8 7.6 7.6 7.6 7.6 7.6 7.4 7.7 7.4 7.4	JULY 7.2 7.2 7.2 7.2 7.2 7.2 7.2 7.2 7.2 7.1 7.2 7.1	7.3 7.4 7.3 7.3 7.3 7.3 7.3 7.2 7.3 7.3 7.3 7.2 7.2 7.2	8.0 8.0 7.7 7.6 7.6 7.4 7.7 7.7 7.6 7.2 7.2	AUGUST 7.2 7.3 7.3 7.2 7.1 7.0 7.1 7.1 7.2 7.1 7.2 7.1 7.0	7.4 7.4 7.4 7.4 7.2 7.1 7.2 7.2 7.2 7.2 7.2 7.2 7.1 7.1	8.0 8.2 8.2 8.0 8.1 8.1 8.1 8.1 7.9 7.8 7.8	EPTEMBE 7.1 7.2 7.3 7.3 7.2 7.3 7.3 7.3 7.3 7.3 7.3 7.2 7.2 7.2	ER 7.3 7.4 7.4 7.4 7.3 7.3 7.4 7.4 7.4 7.4 7.4 7.4 7.3 7.3
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	7.5 7.4 7.5 7.6 7.6 7.8 7.9 8.1 8.2 8.4 7.7 7.5	JUNE 7.4 7.3 7.3 7.3 7.3 7.4 7.4 7.3 7.4 7.4 7.2 7.2 7.2 7.2 7.2 7.2	7.4 7.3 7.4 7.4 7.5 7.6 7.6 7.7 7.8 7.5 7.4 7.3	7.8 7.6 7.6 7.6 7.6 7.6 7.4 7.7 7.6 7.4 7.5 7.5 7.5	JULY 7.2 7.2 7.2 7.2 7.2 7.2 7.2 7.2 7.2 7.2	7.3 7.4 7.3 7.3 7.3 7.3 7.3 7.2 7.3 7.3 7.3 7.2 7.2 7.2 7.2 7.2	8.0 8.0 7.7 7.6 7.6 7.4 7.7 7.6 7.2 7.2 7.1 6.9 7.3	AUGUST 7.2 7.3 7.3 7.2 7.1 7.0 7.1 7.2 7.1 7.2 7.1 7.2 7.1 6.8 6.8 6.9	7.4 7.4 7.4 7.4 7.2 7.1 7.2 7.2 7.2 7.2 7.1 7.1 7.0 6.8 7.1	8.0 8.2 8.2 8.0 8.1 8.1 8.1 7.9 7.8 7.8 7.8 7.8 7.4 7.6	EPTEMBI 7.1 7.2 7.3 7.3 7.2 7.3 7.3 7.3 7.3 7.3 7.3 7.3 7.2 7.2 7.2 7.2 7.2 7.2 7.2 7.2	ER 7.3 7.4 7.4 7.4 7.4 7.3 7.4 7.4 7.4 7.4 7.4 7.4 7.4 7.4
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	7.5 7.4 7.5 7.6 7.8 7.9 8.1 8.2 8.4 7.7 7.5 7.3 7.2	JUNE 7.4 7.3 7.3 7.3 7.3 7.3 7.3 7.3 7.4 7.4 7.2 7.2 7.2 7.2 7.1 7.1	7.4 7.3 7.4 7.4 7.4 7.5 7.6 7.6 7.7 7.8 7.5 7.4 7.3 7.2 7.1	7.8 7.6 7.6 7.6 7.6 7.6 7.4 7.7 7.6 7.4 7.5 7.5 7.5 7.5	JULY 7.2 7.2 7.2 7.2 7.2 7.2 7.2 7.2 7.2 7.1 7.1 7.1 7.1 7.2 7.2 7.2 7.2	7.3 7.4 7.3 7.3 7.3 7.3 7.3 7.3 7.2 7.2 7.2 7.2 7.2 7.2 7.2 7.3 7.3	8.0 8.0 7.7 7.6 7.4 7.7 7.7 7.6 7.2 7.2 7.1 6.9 7.3 7.3 7.4	AUGUST 7.2 7.3 7.3 7.2 7.1 7.0 7.1 7.1 7.2 7.1 7.2 7.1 7.0 6.8 6.8 6.9 7.1 7.1	7.4 7.4 7.4 7.4 7.2 7.2 7.2 7.2 7.2 7.2 7.2 7.1 7.1 7.0 6.8 7.1 7.2 7.2	8.0 8.2 8.2 8.0 8.1 8.1 8.1 8.1 7.9 7.8 7.8 7.8 7.8 7.4 7.6 7.7	EPTEMBI 7.1 7.2 7.3 7.3 7.3 7.3 7.3 7.3 7.3 7.3 7.3 7.2 7.2 7.2 7.2 7.2 7.2 7.2 7.2 7.2 7.2	ER 7.3 7.4 7.4 7.4 7.3 7.3 7.4 7.4 7.4 7.4 7.4 7.3 7.3 7.3 7.2 7.2 7.2 7.2 7.3 7.3 7.3 7.3 7.3 7.3 7.3 7.3
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	7.5 7.4 7.5 7.6 7.8 7.9 8.1 8.2 8.4 7.7 7.5 7.3 7.2 7.3 7.4	JUNE 7.4 7.3 7.3 7.3 7.3 7.3 7.3 7.4 7.4 7.4 7.3 7.4 7.2 7.2 7.2 7.1 7.1 7.1 7.2	7.4 7.3 7.4 7.4 7.4 7.5 7.6 7.6 7.6 7.7 7.8 7.5 7.4 7.3 7.2 7.1 7.2 7.2	7.8 7.6 7.6 7.6 7.6 7.6 7.4 7.4 7.4 7.5 7.5 7.5 7.5 7.5 7.5 7.5 7.5	JULY 7.2 7.2 7.2 7.2 7.2 7.2 7.2 7.2 7.2 7.2	7.3 7.4 7.3 7.3 7.3 7.3 7.3 7.2 7.2 7.2 7.2 7.2 7.2 7.2 7.2 7.2 7.3 7.3	8.0 8.0 7.7 7.6 7.6 7.4 7.7 7.7 7.6 7.2 7.2 7.1 6.9 7.3 7.4 7.3 7.4 7.3	AUGUST 7.2 7.3 7.3 7.2 7.1 7.0 7.1 7.0 7.1 7.2 7.1 7.0 6.8 6.9 7.1 7.1 7.1 7.2	7.4 7.4 7.4 7.2 7.1 7.2 7.2 7.2 7.2 7.2 7.1 7.1 7.1 7.0 6.8 7.1 7.2 7.2 7.2 7.2 7.2 7.2 7.2 7.2 7.2	8.0 8.2 8.2 8.2 8.0 8.1 8.1 8.1 8.1 7.9 7.8 7.8 7.8 7.8 7.6 7.6 7.7 7.7 7.8	EPTEMBI 7.1 7.2 7.3 7.3 7.3 7.3 7.3 7.3 7.3 7.3 7.2 7.2 7.2 7.2 7.2 7.2 7.2 7.2 7.2 7.2	ER 7.3 7.4 7.4 7.4 7.3 7.3 7.4 7.4 7.4 7.4 7.4 7.4 7.4 7.3 7.3 7.3 7.3 7.2 7.2 7.2 7.3 7.3 7.2 7.2 7.3 7.4 7.4 7.4 7.4 7.4 7.4 7.4 7.4
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	7.5 7.4 7.5 7.6 7.8 7.9 8.1 8.2 8.4 7.7 7.5 7.3 7.2 7.3 7.4 7.6	JUNE 7.4 7.3 7.3 7.3 7.3 7.3 7.4 7.4 7.3 7.4 7.2 7.2 7.2 7.2 7.1 7.1 7.1 7.2 7.2 7.2 7.2	7.4 7.3 7.4 7.4 7.4 7.5 7.6 7.6 7.7 7.5 7.6 7.7 7.8 7.2 7.3 7.2 7.1 7.2 7.2 7.3	7.8 7.6 7.6 7.6 7.6 7.4 7.4 7.5 7.5 7.5 7.5 7.5 7.5 7.5	JULY 7.2 7.2 7.2 7.2 7.2 7.2 7.2 7.2 7.2 7.2	7.3 7.3 7.3 7.3 7.3 7.3 7.3 7.3 7.3 7.3	8.0 8.0 7.7 7.6 7.4 7.7 7.6 7.2 7.1 6.9 7.3 7.3 7.4 7.4 7.3 7.5	AUGUST 7.2 7.3 7.3 7.2 7.1 7.0 7.1 7.2 7.1 7.2 7.1 7.0 6.8 6.9 7.1 7.1 7.1 7.2 7.1	7.4 7.4 7.4 7.4 7.2 7.1 7.2 7.2 7.2 7.2 7.2 7.2 7.1 7.1 7.0 6.8 7.1 7.2 7.2 7.2 7.2 7.2 7.2 7.2 7.2 7.2 7.2	8.0 8.2 8.2 8.0 8.1 8.1 8.1 7.9 7.8 7.8 7.8 7.4 7.6 7.6 7.7 7.7 7.8 7.4	SEPTEMBI 7.1 7.2 7.3 7.3 7.2 7.2 7.2 7.2 7.2 7.2 7.2 7.2 7.2 7.2	7.3 7.4 7.4 7.4 7.4 7.3 7.4 7.3 7.4 7.3 7.4 7.3 7.3 7.2 7.3 7.4 7.4 7.4 7.4 7.4 7.4 7.4 7.4 7.4 7.3 7.4 7
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	7.5 7.4 7.5 7.6 7.8 7.9 8.1 8.2 8.4 7.7 7.5 7.3 7.2 7.3 7.4 7.6 7.6	JUNE 7.4 7.3 7.3 7.3 7.3 7.3 7.4 7.4 7.3 7.4 7.2 7.2 7.2 7.1 7.1 7.1 7.1 7.2 7.2 7.2 7.3	7.4 7.3 7.4 7.4 7.4 7.5 7.6 7.6 7.6 7.7 7.8 7.7 7.8 7.5 7.4 7.3 7.2 7.2 7.2 7.3 7.4	7.8 7.6 7.6 7.6 7.6 7.6 7.4 7.4 7.5 7.5 7.5 7.5 7.5 7.5 7.5 7.5 7.5 7.5	JULY 7.2 7.2 7.2 7.2 7.2 7.2 7.2 7.2 7.2 7.2	7.3 7.4 7.3 7.3 7.3 7.3 7.3 7.2 7.2 7.2 7.2 7.2 7.2 7.2 7.2 7.2 7.2	8.0 8.0 7.7 7.6 7.4 7.7 7.7 7.6 7.2 7.2 7.1 6.9 7.3 7.4 7.3 7.4 7.3 7.5 7.6	AUGUST 7.2 7.3 7.3 7.2 7.1 7.0 7.1 7.1 7.2 7.1 7.2 7.1 7.0 6.8 6.9 7.1 7.1 7.2 7.1 7.2 7.1 7.2 7.1 7.2 7.1 7.2 7.3	7.4 7.4 7.4 7.2 7.1 7.2 7.2 7.2 7.2 7.2 7.2 7.1 7.1 7.1 7.0 6.8 7.1 7.2 7.2 7.2 7.2 7.2 7.2 7.2 7.2 7.2 7.2	8.0 8.2 8.2 8.2 8.0 8.1 8.1 8.1 8.1 7.9 7.8 7.8 7.8 7.8 7.6 7.6 7.7 7.7 7.8 7.4 7.1	EPTEMBI 7.1 7.2 7.3 7.3 7.3 7.3 7.3 7.3 7.3 7.3 7.2 7.2 7.2 7.2 7.2 7.2 7.2 7.2 7.2 7.2	ER 7.3 7.4 7.4 7.4 7.3 7.3 7.4 7.4 7.4 7.4 7.4 7.4 7.4 7.3 7.3 7.2 7.2 7.2 7.3 7.3 7.2 7.2 7.3 7.4 7.4 7.4 7.4 7.4 7.4 7.4 7.4
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	7.5 7.4 7.5 7.6 7.8 7.9 8.1 8.2 8.4 7.7 7.7 7.5 7.3 7.3 7.4 7.6 7.6 7.6 7.5	JUNE 7.4 7.3 7.3 7.3 7.3 7.3 7.4 7.4 7.4 7.2 7.2 7.2 7.2 7.1 7.1 7.1 7.2 7.2 7.2 7.1	7.4 7.3 7.4 7.4 7.4 7.5 7.6 7.7 7.5 7.6 7.7 7.5 7.4 7.3 7.2 7.2 7.3 7.4 7.3 7.4 7.3	7.8 7.6 7.6 7.6 7.6 7.4 7.7 7.5 7.5 7.5 7.5 7.5 7.5 7.5 7.5 7.5	JULY 7.2 7.2 7.2 7.2 7.2 7.2 7.2 7.2 7.2 7.2	7.3 7.4 7.3 7.3 7.3 7.3 7.2 7.2 7.2 7.2 7.2 7.2 7.2 7.2 7.2 7.2	8.0 8.0 7.7 7.6 7.4 7.7 7.6 7.4 7.7 7.6 7.2 7.1 6.9 7.3 7.3 7.4 7.3 7.5 7.6 7.6 7.6 7.6 7.6 7.6	AUGUST 7.2 7.3 7.3 7.2 7.1 7.0 7.1 7.2 7.1 7.2 7.1 7.0 6.8 6.8 6.9 7.1 7.1 7.1 7.2 7.1 7.1 7.2 7.1 7.2 7.1 7.2 7.2 7.3	7.4 7.4 7.4 7.4 7.2 7.1 7.2 7.2 7.2 7.2 7.2 7.2 7.2 7.1 7.1 7.0 6.8 7.1 7.2 7.2 7.2 7.2 7.2 7.2 7.2 7.2 7.2 7.2	8.0 8.2 8.2 8.0 8.1 8.1 8.1 8.1 7.9 7.8 7.8 7.8 7.4 7.6 7.7 7.7 7.7 7.7 7.7 7.7 7.4 7.1 7.0 7.2	SEPTEMBI 7.1 7.2 7.3 7.3 7.3 7.3 7.3 7.3 7.3 7.3 7.2 7.2 7.2 7.2 7.2 7.2 7.2 7.2 7.2 7.2	7.3 7.4 7.4 7.4 7.3 7.4 7.3 7.4 7.3 7.4 7.3 7.3 7.3 7.3 7.2 7.3 7.4 7.5 7.3 7.4 7.4 7.3 7.4 7.4 7.2 7.3 7.4 7.4 7.0 6.9 7.0 6.9 7.0
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	7.5 7.4 7.5 7.6 7.8 7.9 8.1 8.2 8.4 7.7 7.5 7.3 7.2 7.3 7.6 7.6 7.6 7.6	JUNE 7.4 7.3 7.3 7.3 7.3 7.3 7.3 7.3 7.3 7.4 7.4 7.4 7.2 7.2 7.2 7.2 7.1 7.1 7.1 7.1 7.2 7.2 7.3 7.3	7.4 7.3 7.4 7.4 7.4 7.5 7.6 7.6 7.6 7.7 7.8 7.5 7.4 7.3 7.2 7.2 7.3 7.4 7.3	7.8 7.6 7.6 7.6 7.6 7.4 7.7 7.6 7.4 7.5 7.5 7.5 7.5 7.5 7.5 7.5 7.5 7.5	JULY 7.2 7.2 7.2 7.2 7.2 7.2 7.2 7.2 7.2 7.2	7.3 7.4 7.3 7.3 7.3 7.3 7.2 7.2 7.2 7.2 7.2 7.2 7.2 7.2 7.2 7.2	8.0 8.0 7.7 7.6 7.4 7.7 7.6 7.2 7.1 6.9 7.3 7.4 7.3 7.5 7.6 7.6	AUGUST 7.2 7.3 7.3 7.2 7.1 7.0 7.1 7.1 7.1 7.2 7.1 7.2 7.1 7.0 6.8 6.8 6.9 7.1 7.1 7.1 7.1 7.1 7.2 7.1 7.1 7.2 7.1 7.2 7.3	7.4 7.4 7.4 7.4 7.2 7.1 7.2 7.2 7.2 7.2 7.2 7.2 7.1 7.1 7.1 7.1 7.1 7.1 7.2 7.2 7.2 7.2 7.2 7.2 7.2 7.2 7.2 7.3 7.3 7.3	8.0 8.2 8.2 8.2 8.0 8.1 8.1 8.1 7.9 7.8 7.8 7.8 7.8 7.8 7.4 7.6 7.7 7.7 7.7 7.7 7.7 7.7 7.7 7.7 7.2 7.4 7.0	SEPTEMBI 7.1 7.2 7.3 7.3 7.2 7.3 7.3 7.3 7.3 7.3 7.3 7.2 7.2 7.2 7.2 7.2 7.2 7.2 7.2 7.2 7.2	7.3 7.4 7.4 7.4 7.3 7.3 7.4 7.3 7.4 7.3 7.4 7.3 7.4 7.3 7.4 7.3 7.4 7.3 7.3 7.3 7.3 7.4 7.3 7.4 7.4 7.4 7.4 7.4 7.4 7.3 7.4 7.4 7.4 7.4 7.4 7.4 7.4 7.4 7.0 6.9
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 3 24 25 26	$\begin{array}{c} 7.5\\ 7.4\\ 7.5\\ 7.6\\ 7.8\\ 7.9\\ 8.1\\ 8.2\\ 8.4\\\\ 7.7\\ 7.5\\ 7.3\\ 7.2\\ 7.4\\ 7.6\\ 7.6\\ 7.6\\ 7.6\\ 7.6\\ 7.2\\ 7.4\\ 7.5\\ 7.2\\ 7.4\\ 7.5\end{array}$	JUNE 7.4 7.3 7.3 7.3 7.3 7.3 7.4 7.3 7.4 7.3 7.4 7.2 7.2 7.2 7.1 7.2 7.3 7.3 7.1 7.2 7.3 7.3 7.1 7.2 7.3 7.3 7.3 7.2 7.2 7.2 7.2 7.2 7.2 7.2 7.3 7.3 7.3 7.3 7.3 7.3 7.3 7.3 7.3 7.3 7.3 7.3 7.3 7.3 7.3 7.1	7.4 7.3 7.4 7.4 7.4 7.5 7.6 7.6 7.6 7.7 7.8 7.5 7.4 7.3 7.2 7.3 7.2 7.3 7.2 7.3 7.2 7.3 7.3 7.2 7.3	7.8 7.6 7.6 7.6 7.6 7.4 7.4 7.4 7.5 7.5 7.5 7.5 7.5 7.5 7.5 7.5 7.5 7.5	JULY 7.2 7.2 7.2 7.2 7.2 7.2 7.2 7.2 7.2 7.2	7.3 7.4 7.3 7.3 7.3 7.3 7.2 7.2 7.2 7.2 7.2 7.2 7.2 7.2 7.2 7.2	8.0 8.0 7.7 7.6 7.4 7.7 7.7 7.6 7.2 7.2 7.2 7.2 7.2 7.3 7.3 7.4 7.3 7.4 7.3 7.5 7.6 7.6 7.6 7.6 8.0 8.1	AUGUST 7.2 7.3 7.3 7.2 7.1 7.0 7.1 7.0 7.1 7.2 7.1 7.0 6.8 6.9 7.1 7.1 7.2 7.1 7.2 7.1 7.1 7.2 7.1 7.3 7.3 7.3 7.3 7.3	7.4 7.4 7.4 7.2 7.1 7.2 7.2 7.2 7.2 7.2 7.2 7.2 7.1 7.1 7.1 7.1 7.0 6.8 7.1 7.2 7.2 7.2 7.2 7.2 7.2 7.2 7.2 7.2 7.2	8.0 8.2 8.2 8.2 8.0 8.1 8.1 8.1 8.1 7.9 7.8 7.8 7.8 7.4 7.6 7.7 7.8 7.4 7.6 7.7 7.8 7.4 7.1 7.2 7.2 7.1 7.1	SEPTEMBI 7.1 7.2 7.3 7.3 7.3 7.3 7.3 7.3 7.3 7.3 7.3 7.3 7.2 7.3 7.3 7.1 6.9 6.9 7.0 7.0 7.0 7.0	7.3 7.4 7.4 7.4 7.3 7.4 7.3 7.4 7.3 7.4 7.3 7.4 7.3 7.4 7.4 7.4 7.4 7.3 7.3 7.3 7.3 7.3 7.4 7.4 7.2 7.3 7.4 7.4 7.0 7.0 7.0 7.0 7.0 7.0 7.0 7.0
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25	7.5 7.4 7.5 7.6 7.8 7.9 8.1 8.2 8.4 7.7 7.5 7.3 7.4 7.6 7.6 7.6 7.6 7.5 7.3 7.4 7.6 7.5 7.2 7.3	JUNE 7.4 7.3 7.3 7.3 7.3 7.4 7.4 7.4 7.4 7.2 7.2 7.2 7.1 7.1 7.1 7.2 7.2 7.3 7.1 7.1 7.1 7.2 7.2 7.3 7.1 7.1 7.1 7.2 7.2 7.3 7.3 7.1 7.1 7.1 7.2 7.2 7.3 7.3 7.1 7.1 7.1 7.2 7.2 7.3 7.3 7.1 7.1 7.2 7.2 7.3 7.3 7.1 7.1 7.2 7.2 7.3 7.3 7.1 7.1 7.2 7.2 7.3 7.3 7.1 7.1 7.2 7.2 7.3 7.3 7.1 7.1 7.2 7.2 7.3 7.3 7.1 7.1 7.2 7.2 7.2 7.3 7.3 7.1 7.1 7.2 7.2 7.2 7.3 7.3 7.1 7.1 7.2 7.2 7.2 7.3 7.3 7.1 7.1 7.2 7.2 7.2 7.3 7.3 7.1 7.1 7.2 7.2 7.2 7.3 7.3 7.1 7.1 7.2 7.2 7.2 7.3 7.3 7.1 7.1 7.2 7.2 7.2 7.3 7.3 7.1 7.1 7.2 7.2 7.3 7.3 7.1 7.1 7.2 7.2 7.2 7.3 7.3 7.1 7.1 7.2 7.2 7.2 7.3 7.3 7.1 7.1 7.2 7.2 7.2 7.2 7.3 7.3 7.1 7.1 7.2 7.2 7.2 7.2 7.3 7.3 7.1 7.1 7.2 7.2 7.2 7.2 7.3 7.3 7.1 7.1 7.2 7.2 7.2 7.2 7.2 7.3 7.3 7.1 7.1 7.2 7.2 7.2 7.2 7.2 7.2 7.3 7.3 7.1 7.1 7.2 7.2 7.2 7.2 7.2 7.3 7.3 7.1 7.1 7.2 7.2 7.2 7.2 7.2 7.2 7.3 7.3 7.1 7.1 7.2 7.2 7.2 7.2 7.2 7.2 7.2 7.2 7.3 7.3 7.1 7.1 7.2 7.2 7.2 7.2 7.2 7.2 7.2 7.2 7.2 7.2	7.4 7.3 7.4 7.4 7.5 7.6 7.6 7.6 7.7 7.8 7.5 7.4 7.3 7.2 7.3 7.2 7.3 7.3 7.3 7.3 7.3	7.8 7.6 7.6 7.6 7.6 7.4 7.7 7.5 7.5 7.5 7.5 7.5 7.5 7.5 7.5 7.5	JULY 7.2 7.2 7.2 7.2 7.2 7.2 7.2 7.2 7.2 7.2	7.3 7.4 7.3 7.3 7.3 7.3 7.2 7.2 7.2 7.2 7.2 7.2 7.2 7.2 7.2 7.2	8.0 8.0 7.7 7.6 7.4 7.7 7.6 7.4 7.7 7.6 7.2 7.1 6.9 7.3 7.3 7.4 7.3 7.5 7.6 7.6 7.4 7.5 7.6 7.6 7.9 8.0	AUGUST 7.2 7.3 7.3 7.2 7.1 7.0 7.1 7.1 7.2 7.1 7.2 7.1 7.2 7.1 7.2 7.1 7.1 7.2 7.1 7.1 7.2 7.1 7.1 7.2 7.1 7.1 7.2 7.1 7.3 7.3 7.3 7.3	7.4 7.4 7.4 7.2 7.2 7.2 7.2 7.2 7.2 7.2 7.2 7.2 7.2	8.0 8.2 8.2 8.2 8.0 8.1 8.1 8.1 8.1 7.9 7.8 7.8 7.8 7.8 7.4 7.6 7.7 7.7 7.6 7.7 7.7 7.7 7.7 7.7 7.1 7.2 7.1 7.2	EPTEMBI 7.1 7.2 7.3 7.3 7.3 7.3 7.3 7.3 7.3 7.3 7.2 7.2 7.2 7.2 7.2 7.2 7.2 7.2 7.2 7.2	7.3 7.4 7.4 7.4 7.3 7.3 7.4 7.3 7.4 7.3 7.4 7.3 7.4 7.3 7.3 7.3 7.2 7.3 7.4 7.4 7.4 7.3 7.4 7.4 7.2 7.3 7.4 7.4 7.0 6.9 7.0 7.0 7.0 7.0 7.0
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	JUNE 7.4 7.3 7.3 7.3 7.3 7.3 7.4 7.4 7.3 7.4 7.2 7.2 7.2 7.1 7.1 7.1 7.1 7.2 7.2 7.2 7.3 7.3 7.1 7.1 7.2 7.2 7.2 7.2 7.2 7.2 7.2 7.2 7.2 7.2	7.4 7.3 7.4 7.4 7.4 7.5 7.6 7.6 7.6 7.7 7.8 7.2 7.3 7.2 7.2 7.3 7.2 7.3 7.2 7.3 7.3 7.3 7.3 7.3 7.3 7.3 7.3	7.8 7.6 7.6 7.6 7.6 7.4 7.4 7.4 7.5 7.5 7.5 7.5 7.5 7.5 7.5 7.5 7.5 7.5	JULY 7.2 7.2 7.2 7.2 7.2 7.2 7.2 7.2 7.2 7.2	7.3 7.4 7.3 7.3 7.3 7.3 7.2 7.2 7.2 7.2 7.2 7.2 7.2 7.2 7.2 7.2	8.0 8.0 7.7 7.6 7.4 7.7 7.7 7.6 7.2 7.2 7.2 7.2 7.2 7.3 7.3 7.4 7.3 7.4 7.3 7.5 7.6 7.6 7.6 7.6 9 8.0 8.1 8.0 8.2 8.3	AUGUST 7.2 7.3 7.3 7.2 7.1 7.0 7.1 7.0 7.1 7.2 7.1 7.0 6.8 6.9 7.1 7.1 7.2 7.1 7.1 7.2 7.1 7.1 7.2 7.1 7.1 7.3 7.3 7.3 7.3 7.3 7.3 7.3	7.4 7.4 7.4 7.2 7.1 7.2 7.2 7.2 7.2 7.2 7.2 7.2 7.2 7.2 7.2	8.0 8.2 8.2 8.2 8.0 8.1 8.1 8.1 8.1 7.9 7.8 7.8 7.4 7.6 7.7 7.7 7.8 7.4 7.6 7.7 7.7 7.8 7.4 7.1 7.0 7.2 7.2 7.1 7.2 7.2 7.3	SEPTEMBI 7.1 7.2 7.3 7.3 7.3 7.3 7.3 7.3 7.3 7.3 7.3 7.3 7.2 7.3 7.3 7.1 6.9 6.9 7.0 7.0 7.1 7.1	7.3 7.4 7.4 7.4 7.3 7.4 7.3 7.4 7.3 7.4 7.3 7.4 7.3 7.4 7.4 7.4 7.4 7.3 7.3 7.3 7.3 7.4 7.4 7.0 7.0 7.0 7.0 7.2 7.2
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28	$\begin{array}{c} 7.5\\ 7.4\\ 7.5\\ 7.6\\ 7.8\\ 7.9\\ 8.2\\ 8.4\\ -7.7\\ 7.5\\ 7.3\\ 7.4\\ 7.6\\ 7.6\\ 7.5\\ 7.2\\ 7.4\\ 7.6\\ 7.5\\ 7.2\\ 7.4\\ 7.6\\ 7.5\\ 7.2\\ 7.6\\ 7.5\\ 7.6\\ 7.6\\ 7.6\\ 7.5\\ 7.6\\ 7.6\\ 7.6\\ 7.6\\ 7.6\\ 7.6\\ 7.6\\ 7.6$	JUNE 7.4 7.3 7.3 7.3 7.3 7.3 7.4 7.4 7.3 7.4 7.2 7.2 7.2 7.1 7.1 7.1 7.2 7.2 7.3 7.3 7.1 7.1 7.2 7.2 7.2 7.2 7.2 7.3 7.3 7.1 7.1 7.2 7.2 7.2 7.2 7.2 7.2 7.2 7.2 7.2 7.2	7.4 7.3 7.4 7.4 7.4 7.5 7.6 7.7 7.8 7.5 7.6 7.7 7.8 7.2 7.3 7.2 7.3 7.3 7.3 7.3 7.3 7.3 7.3	7.8 7.6 7.6 7.6 7.6 7.4 7.7 7.6 7.4 7.5 7.5 7.5 7.5 7.5 7.5 7.5 7.5 7.5 7.7 7.7	JULY 7.2 7.2 7.2 7.2 7.2 7.2 7.2 7.2 7.2 7.2	7.3 7.4 7.3 7.3 7.3 7.3 7.2 7.2 7.2 7.2 7.2 7.2 7.2 7.2 7.2 7.3 7.3 7.3 7.3 7.3 7.3 7.3 7.3 7.3 7.3	8.0 8.0 7.7 7.6 7.4 7.7 7.7 7.6 7.2 7.1 6.9 7.3 7.3 7.4 7.3 7.5 7.6 7.6 7.3 7.5 7.6 7.6 7.9 8.0 8.1 8.2	AUGUST 7.2 7.3 7.3 7.2 7.1 7.0 7.1 7.2 7.1 7.2 7.1 7.2 7.1 7.0 6.8 6.8 6.9 7.1 7.1 7.1 7.2 7.1 7.1 7.2 7.1 7.3 7.3 7.3 7.3	7.4 7.4 7.4 7.4 7.2 7.1 7.2 7.2 7.2 7.2 7.2 7.2 7.2 7.2 7.2 7.1 7.1 7.0 6.8 7.1 7.2 7.2 7.2 7.2 7.2 7.2 7.2 7.2 7.2 7.2	8.0 8.2 8.2 8.0 8.1 8.1 8.1 8.1 7.9 7.8 7.8 7.8 7.8 7.8 7.4 7.6 7.7 7.7 7.7 7.7 7.7 7.4 7.1 7.0 7.2 7.1 7.2 7.2	SEPTEMBI 7.1 7.2 7.3 7.3 7.3 7.3 7.3 7.3 7.3 7.3 7.3 7.3 7.2 7.3 7.3 7.3 7.1 6.9 7.0 7.0 7.0 7.0 7.1	7.3 7.4 7.4 7.4 7.3 7.3 7.4 7.3 7.4 7.3 7.4 7.3 7.4 7.3 7.4 7.4 7.3 7.3 7.3 7.4 7.3 7.4 7.3 7.4 7.4 7.0 7.0 7.0 7.0 7.0 7.0 7.2 7.2
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30	$\begin{array}{c} 7.5\\ 7.4\\ 7.5\\ 7.6\\ 7.8\\ 7.9\\ 8.1\\ 8.2\\ 8.4\\\\ 7.7\\ 7.5\\ 7.3\\ 7.2\\ 7.3\\ 7.6\\ 7.6\\ 7.6\\ 7.6\\ 7.6\\ 7.6\\ 7.7\\ 7.7$	JUNE 7.4 7.3 7.3 7.3 7.3 7.3 7.3 7.4 7.4 7.3 7.4 7.2 7.2 7.2 7.1 7.1 7.1 7.1 7.2 7.2 7.2 7.3 7.1 7.1 7.1 7.2 7.2 7.2 7.2 7.3 7.1 7.1 7.2 7.2 7.2 7.2 7.2 7.2 7.2 7.2 7.2 7.2	7.4 7.3 7.4 7.4 7.4 7.5 7.6 7.6 7.7 7.8 7.5 7.4 7.3 7.2 7.3 7.2 7.3 7.3 7.3 7.3 7.4 7.4 7.4	7.8 7.6 7.6 7.6 7.6 7.6 7.4 7.7 7.6 7.4 7.4 7.5 7.5 7.5 7.5 7.5 7.5 7.5 7.5 7.5 7.5	JULY 7.2 7.2 7.2 7.2 7.2 7.2 7.2 7.2 7.2 7.2	7.3 7.4 7.3 7.3 7.3 7.3 7.2 7.2 7.2 7.2 7.2 7.2 7.2 7.2 7.3 7.3 7.3 7.3 7.3 7.3 7.3 7.3 7.3 7.3	8.0 8.0 7.7 7.6 7.4 7.7 7.7 7.6 7.2 7.2 7.2 7.2 7.1 6.9 7.3 7.4 7.3 7.4 7.3 7.4 7.4 7.5 7.6 7.6 7.6 7.6 8.0 8.0 8.0 8.0 8.0 8.0 8.0 8.0 8.0 8.0	AUGUST 7.2 7.3 7.3 7.2 7.1 7.0 7.1 7.0 7.1 7.2 7.1 7.2 7.1 7.2 7.1 7.1 7.2 7.1 7.1 7.2 7.1 7.1 7.2 7.1 7.1 7.2 7.1 7.1 7.3 7.3 7.3 7.3 7.3 7.3	7.4 7.4 7.4 7.2 7.1 7.2 7.2 7.2 7.2 7.2 7.2 7.2 7.2 7.2 7.2	8.0 8.2 8.2 8.2 8.0 8.1 8.1 8.1 8.1 7.9 7.8 7.8 7.8 7.8 7.4 7.6 7.7 7.7 7.6 7.7 7.7 7.7 7.7 7.7 7.1 7.2 7.1 7.2 7.1 7.2 7.3 7.3	SEPTEMBI 7.1 7.3 7.3 7.3 7.3 7.3 7.3 7.3 7.3 7.3 7.3 7.2 7.3 7.1 6.9 6.9 7.0 7.1 7.1 7.1	7.3 7.4 7.4 7.4 7.3 7.3 7.4 7.3 7.4 7.3 7.4 7.3 7.4 7.3 7.4 7.4 7.3 7.3 7.3 7.4 7.3 7.3 7.4 7.2 7.3 7.4 7.0 7.0 7.0 7.2 7.2 7.0 7.00 7.2

01481000 BRANDYWINE CREEK AT CHADDS FORD, PA--Continued

WATER TEMPERATURE, DEGREES CELSIUS, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1 2 3 4 5	15.0 16.5 17.0 18.0	13.5 14.5 15.0 16.0	14.0 15.5 16.0 17.0	10.0 10.0 10.5 11.0 11.0	8.5 8.0 8.5 9.5 9.5	9.0 9.0 9.5 10.5 10.0	 	 	 	 	 	
6 7 8 9 10	 10.0	 9.5	 10.0	9.5 8.5 9.5 11.5 13.0	8.0 7.5 8.0 9.5 11.5	9.0 8.0 8.5 10.5 12.5	 	 	 	 	 	
11 12 13 14 15	11.0 12.0 12.5 13.5 14.5	9.0 10.0 10.5 11.5 12.5	10.0 11.0 12.0 12.5 13.5	12.5 11.5 11.5 11.0 9.5	11.5 10.5 10.5 9.5 7.5	12.0 11.0 11.0 10.5 8.5	 	 	 	 	 	
16 17 18 19 20	14.5 14.5 15.0 14.5 13.5	13.5 14.0 14.5 13.5 12.0	14.0 14.5 14.5 14.0 13.0	7.5 8.0 7.0 6.0 4.5	6.5 7.0 6.0 4.5 3.5	7.0 7.5 6.5 5.5 4.0	 	 	 	 	 	
21 22 23 24 25	14.0 14.5 13.5 12.5 13.5	12.5 13.0 11.5 11.0 11.5	13.0 13.5 12.5 12.0 12.5	4.0 3.0 2.0 2.5 2.5	3.0 2.0 1.0 1.0 1.0	3.5 2.5 1.5 1.5 1.5	 	 	 	 	 	
26 27 28 29 30 31	14.5 14.5 14.5 12.5 10.5 10.0	13.0 13.0 12.5 10.0 9.0 8.5	13.5 14.0 14.0 11.5 9.5 9.0	7.5 7.5 8.0 7.5 7.0	2.5 6.5 7.0 6.5 6.5	5.0 7.0 7.5 7.0 7.0	 	 	 	 	 	
MONTH	18.0	8.5	12.9	13.0	1.0	7.5						
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1 2 3 4 5	 	 	 	5.5 5.5 6.5 6.5 4.0	3.5 4.0 5.5 4.0 3.0	4.5 5.0 6.0 5.5 3.5	8.0 8.5 10.0 11.5 12.0	7.0 7.5 7.0 9.0 9.0	7.5 8.0 8.0 10.0 10.5	17.5 19.5 20.5 22.0 21.5	14.0 16.5 18.0 19.5 20.0	16.0 18.0 19.5 20.5 20.5
6 7 8 9 10	 	 	 	3.0 5.5 6.0 6.0 6.0	2.0 3.0 4.0 5.0 4.0	2.5 4.0 5.0 5.5 5.0	11.5 10.5 10.0 14.5 15.0	10.0 9.5 9.0 9.5 13.5	10.5 10.0 9.5 11.5 14.5	20.0 18.0 17.0 17.5 18.5	17.5 15.5 15.0 16.0 16.0	18.5 17.0 16.5 17.0 17.5
11 12 13 14 15	 	 	 	6.0 6.5 6.5 7.5 7.0	4.0 4.5 6.0 5.5	5.0 6.0 6.5 6.5 6.0	14.0 12.0 14.5 15.0 14.5	12.0 11.0 11.5 12.5 12.5	13.0 11.5 13.0 13.5 13.5	20.0 20.0 19.5 18.0 17.0	17.5 18.5 17.5 16.0 15.0	19.0 19.5 18.5 17.0 16.5
16 17 18 19 20	 	 	 	8.0 7.5 8.0 8.0 8.0	6.0 7.0 6.0 5.5 6.0	7.0 7.0 7.0 7.0 7.0	13.5 12.0 11.0 11.0 11.0	12.0 10.5 9.0 8.5 9.5	12.5 11.0 10.0 10.0 10.5	17.0 17.0 15.0 17.5 17.0	15.0 15.0 14.5 14.5 16.0	16.5 16.0 15.0 16.0 16.5
21 22 23 24 25	 	 	 	8.0 7.0 8.5 8.0 7.0	6.5 6.5 6.0 6.5 5.0	7.0 6.5 7.5 7.0 6.0	13.5 17.5 20.0 20.0 19.0	11.0 13.0 16.0 18.0 14.5	12.0 15.0 18.0 19.5 16.0	16.0 16.5 18.5 20.0 19.5	14.5 14.5 16.0 17.5 18.0	15.0 15.0 17.0 18.5 19.0
26 27 28 29 30 31	 6.0 	 5.0 	 5.5 	7.5 6.5 7.5 7.0 6.5 7.0	6.0 4.5 4.5 5.5 5.5 5.5	7.0 6.0 6.5 6.0	15.0 15.5 16.0 15.0 15.5	12.0 12.5 14.0 12.5 12.5	13.5 14.0 15.5 14.0 14.0	18.5 17.0 18.5 18.0 18.5 17.5	16.0 15.0 16.5 16.5 16.5 15.5	17.0 16.0 17.5 17.0 17.5 16.5
MONTH	6.0	5.0	5.5	8.5	2.0	6.5 5.9	20.0	7.0	12.3	22.0	15.5	17.3

01481000 BRANDYWINE CREEK AT CHADDS FORD, PA--Continued

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBE	R
1 2 3 4 5	17.0 17.0 18.0 18.5 20.0	15.0 15.0 16.5 16.0 17.5	15.5 15.5 17.0 17.0 19.0	27.5 25.5 23.5 23.0 23.5	25.0 23.0 21.0 21.0 21.5	26.0 24.0 22.0 22.0 22.5	25.0 25.5 26.0 25.5 26.0	21.5 22.0 23.0 24.0 23.5	23.0 23.5 24.0 25.0 25.0	26.0 24.5 24.0 23.5 23.5	23.5 22.0 21.0 21.5 21.0	25.0 23.0 22.5 22.5 22.0
6 7 8 9 10	20.0 20.5 20.5 20.0 20.5	19.0 18.5 18.0 18.0 18.5	19.5 19.5 19.5 19.5 19.5	23.5 23.5 23.0 25.0 26.0	21.5 20.5 21.5 21.5 23.0	22.5 22.0 22.0 23.0 24.5	27.5 28.5 29.5 30.0 29.5	24.5 25.5 26.5 26.5 27.5	25.5 27.0 27.5 28.0 28.0	23.0 23.0 23.0 23.5 24.0	20.0 20.5 21.0 21.5 22.0	21.5 21.5 22.0 22.5 23.0
11 12 13 14 15	22.0 24.5 24.5 24.0	19.0 22.0 23.0 22.5	20.5 23.5 23.5 23.5	25.0 24.0 24.0 23.5 24.0	23.0 22.0 21.0 20.5 20.5	24.0 23.0 22.5 22.5 22.5	27.5 25.0 24.0 25.5 26.5	25.0 23.5 23.0 23.0 23.5	26.5 24.0 23.5 24.5 25.0	24.5 23.5 23.0 21.5 19.5	22.0 21.0 20.5 18.5 17.0	23.0 22.0 21.5 20.0 18.0
16 17 18 19 20	23.5 23.0 24.0 24.5 25.5	22.0 21.0 21.5 22.0 22.5	22.5 22.0 23.0 23.5 24.0	25.5 25.0 25.0 25.0	23.0 23.5 22.5 22.0	24.5 24.5 23.5 23.5	26.5 26.0 25.5 24.5 25.5	23.5 24.0 23.5 23.5 23.0	25.0 25.0 24.5 24.0 24.0	19.5 19.0 19.0 19.5 19.0	16.5 17.0 17.0 17.0 18.0	17.5 17.5 17.5 18.0 18.5
21 22 23 24 25	25.0 25.0 24.0 23.5 23.5	23.5 23.5 22.5 21.5 21.0	24.5 24.0 23.5 22.5 22.5	25.0 25.5 26.5 28.0 29.0	21.5 22.0 23.0 24.5 26.0	23.5 24.0 25.0 26.0 27.5	25.5 25.5 24.5 25.5 26.0	23.5 22.5 23.0 22.5 23.5	24.5 24.0 24.0 24.0 24.5	20.5 21.5 22.0 22.0 21.5	19.0 20.0 20.0 20.5 18.5	20.0 20.5 21.0 21.0 20.0
26 27 28 29 30 31	25.0 26.0 27.0 27.0 27.5	22.0 22.5 24.0 24.5 25.0	23.5 24.5 25.5 26.0 26.5	28.0 26.0 24.5 23.0 23.5 24.0	25.5 23.5 22.5 21.5 21.0 21.0	27.0 24.5 23.5 22.5 22.0 22.5	25.5 25.5 26.5 26.5 25.0 25.5	23.0 23.5 24.5 24.0 24.0 23.0	24.0 24.5 25.0 25.0 24.5 24.5	18.5 16.5 16.0 16.0 15.0	16.5 15.5 14.5 14.5 14.0	17.5 16.0 15.5 15.0 14.5
MONTH	27.5	15.0	21.7	29.0	20.5	23.6	30.0	21.5	24.9	26.0	14.0	20.0

WATER TEMPERATURE, DEGREES CELSIUS, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

OXYGEN, DISSOLVED (MG/L), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	
	OCTOBER			NOVEMBER			D	DECEMBER			JANUARY		
1 2 3 4 5	10.6 10.2 10.4 10.4	9.8 9.3 9.1 8.9 	10.1 9.7 9.6 9.5	13.2 13.4 13.6 13.3 12.9	11.0 11.1 11.0 10.7 10.3	11.7 11.8 11.9 11.6 11.3	 	 	 	 	 	 	
6 7 8 9 10	 11.8	 	 11.5	13.6 13.9 13.7 12.7 9.8	10.7 11.0 11.1 9.8 8.5	11.8 12.1 12.0 11.0 9.2	 	 	 	 	 	 	
11 12 13 14 15	11.9 11.9 11.9 11.9 11.9 12.3	10.9 10.7 10.5 10.2 9.9	11.3 11.1 11.0 10.9 10.8	10.0 11.1 11.6 10.2 12.5	8.4 9.1 9.6 9.6 9.6	9.1 9.9 10.3 9.8 10.9	 	 	 	 	 	 	
16 17 18 19 20	11.2 10.6 9.8 10.2 10.8	9.6 9.1 8.9 8.8 9.4	10.2 9.6 9.2 9.4 10.0	13.3 13.3 14.0 14.4 15.1	11.3 11.5 11.6 12.2 12.7	12.1 12.2 12.6 13.0 13.6	 	 	 	 	 	 	
21 22 23 24 25	10.8 10.6 11.2 11.7 11.6	9.5 9.3 9.6 10.1 9.9	10.1 9.8 10.2 10.7 10.5	15.3 15.6 15.8 16.1 15.7	13.2 13.7 14.1 14.3 14.2	14.0 14.5 14.8 14.9 14.8	 	 	 	 	 	 	
26 27 28 29 30 31	11.4 11.7 11.4 12.0 12.6 13.0	9.5 9.4 9.3 9.6 10.6 11.0	10.1 10.1 10.0 10.6 11.3 11.6	14.2 11.1 11.6 12.1 12.0	10.7 10.7 10.6 10.8 11.0	12.1 10.9 11.1 11.5 11.5	 	 	 	 	 	 	
MONTH	13.0	8.8	10.3	16.1	8.4	11.9							

01481000 BRANDYWINE CREEK AT CHADDS FORD, PA--Continued

OXYGEN, DISSOLVED (MG/L), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1							11.3	10.3	10.9	10.2	8.4	9.2
2 3							11.7 11.9	10.0 10.9	11.0 11.3	10.0 9.6	7.9 7.5	8.8 8.4
4 5							11.6 11.9	10.4 10.3	11.0 11.1	9.5 9.3	7.2 7.1	8.2 8.1
6 7				15.0	12.9	14.0	11.6 12.1	10.2 10.2	10.9 11.2	10.6 11.1	8.0 8.4	9.2 9.6
8 9				14.0	12.0	12.9	12.8	10.6	11.5	11.1 10.4 9.5 9.4	8.5	9.3
10				13.1 13.3	11.6 11.2	$12.3 \\ 12.1$		10.7 9.3	11.6 10.4	9.5	7.6 7.3	8.5 8.3
11				12.9	10.8	11.7	11.1	9.9	10.5	10.5	7.2	8.7
12				12.4	10.3	11.3	11.3	9.7	10.7	8.8	6.7	7.7
13 14							11.3 11.5	9.7 9.3	10.4 10.3	9.4 9.8	6.7 7.5	7.9 8.6
15				12.4	10.7	11.6	11.4	9.2	10.2	9.5	7.5	8.4
16				12.6	10.8	11.7			9.8	10.1		8.7
17 18				11.1 12.7	10.4 10.8	10.8 11.7	11.5 11.8	9.6 10.0	10.5 10.9	9.4 8.7	7.5 7.7	8.2 8.2
19				13.2	11.1	12.1	12.1	10.1	11.0	10.2	8.0	9.0
20				13.3	11.0	12.2	11.9	9.9	10.9	8.5	7.1	7.7
21				12.1	10.7	11.2	11.3	9.7	10.5	7.9	7.1	7.6
22 23				10.9 11.5	10.6 10.6	10.7 11.0	11.2 10.2	9.0 8.0	10.0 9.1	8.5 8.7	7.1 8.0	7.9 8.4
24 25				11.8 12.6	10.5 11.1	11.1 11.8	9.2 10.1	7.3 7.6	9.1 8.3 8.8	8.7 8.7	7.9 7.7	8.2 8.1
26 27				12.4 13.0	10.9 11.2	11.7 12.1	10.6 10.3	9.0 8.8	9.8 9.5	8.6 8.8	7.8 8.3	8.2 8.5
28				13.2	11.4	12.3	10.3	8.2	9.3	8.7	8.3	8.5
29 30				12.9 11.8	11.0 10.9	12.0 11.1	10.5 10.5	8.8 8.8	9.6 9.6	9.0 9.1	8.2 8.3	8.6 8.7
31				11.4	11.0	11.2				9.7	8.4	9.0
MONTH				15.0	10.3	11.8	12.9	7.3	10.4	11.1	6.7	8.5
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
DAY	MAX		MEAN	MAX		MEAN			MEAN			
		JUNE			JULY			AUGUST		S	EPTEMBE	R
DAY 1 2	MAX 9.6 9.1		MEAN 9.2 9.0	MAX 9.4 9.4		MEAN 7.8 7.9			MEAN 8.5 8.2		EPTEMBE	
1 2 3	9.6 9.1 9.2	JUNE 8.7 8.6 8.5	9.2 9.0 8.9	9.4 9.4 9.9	JULY 6.7 6.7 7.3	7.8 7.9 8.5	10.7 10.5 10.7	AUGUST 7.4 7.0 6.8	8.5 8.2 8.2	10.9 11.1 11.5	6.4 6.9 7.1	7.9 8.4 8.8
1 2	9.6 9.1	JUNE 8.7 8.6	9.2 9.0	9.4 9.4	JULY 6.7 6.7	7.8 7.9	10.7 10.5	AUGUST 7.4 7.0	8.5 8.2	10.9 11.1	6.4 6.9	7.9 8.4
1 2 3 4 5	9.6 9.1 9.2 9.9 9.7	JUNE 8.7 8.6 8.5 8.6 8.4	9.2 9.0 8.9 9.2 9.0	9.4 9.4 9.9 9.7 9.5	JULY 6.7 7.3 7.5 7.2	7.8 7.9 8.5 8.3 8.3	10.7 10.5 10.7 9.5 9.0	AUGUST 7.4 7.0 6.8 6.5 6.7	8.5 8.2 8.2 7.5 7.6	10.9 11.1 11.5 11.0 10.8	6.4 6.9 7.1 7.4 7.2	7.9 8.4 8.8 8.7 8.6
1 2 3 4 5 6 7	9.6 9.1 9.2 9.9 9.7 9.6 10.0	JUNE 8.7 8.6 8.5 8.6 8.4 8.0 7.8	9.2 9.0 8.9 9.2 9.0 8.6 8.7	9.4 9.4 9.9 9.7 9.5 9.6 9.8	JULY 6.7 7.3 7.5 7.2 7.3 7.4	7.8 7.9 8.5 8.3 8.3 8.3 8.4	10.7 10.5 10.7 9.5 9.0 9.3 8.6	AUGUST 7.4 7.0 6.8 6.5 6.7 5.9 5.4	8.5 8.2 7.5 7.6 7.2 6.6	10.9 11.1 11.5 11.0 10.8 11.3 10.6	6.4 6.9 7.1 7.4 7.2 7.3 7.0	R 7.9 8.4 8.8 8.7 8.6 8.8 8.4
1 2 3 4 5 6	9.6 9.1 9.2 9.9 9.7 9.6	JUNE 8.7 8.6 8.5 8.6 8.4 8.4	9.2 9.0 8.9 9.2 9.0 8.6	9.4 9.4 9.9 9.7 9.5 9.6	JULY 6.7 7.3 7.5 7.2 7.3	7.8 7.9 8.5 8.3 8.3 8.3	10.7 10.5 10.7 9.5 9.0 9.3	AUGUST 7.4 7.0 6.8 6.5 6.7 5.9	8.5 8.2 8.2 7.5 7.6 7.2	10.9 11.1 11.5 11.0 10.8 11.3	6.4 6.9 7.1 7.4 7.2 7.3	7.9 8.4 8.8 8.7 8.6 8.8
1 2 3 4 5 6 7 8	9.6 9.1 9.2 9.9 9.7 9.6 10.0 10.1	JUNE 8.7 8.6 8.5 8.6 8.4 8.0 7.8 8.0	9.2 9.0 8.9 9.2 9.0 8.6 8.7 8.9	9.4 9.9 9.7 9.5 9.6 9.8 8.7	JULY 6.7 7.3 7.5 7.2 7.3 7.4 7.1	7.8 7.9 8.5 8.3 8.3 8.3 8.4 7.7	10.7 10.5 10.7 9.5 9.0 9.3 8.6 9.3	AUGUST 7.4 7.0 6.8 6.5 6.7 5.9 5.4 5.4	8.5 8.2 7.5 7.6 7.2 6.6 6.8	10.9 11.1 11.5 11.0 10.8 11.3 10.6 10.7	6.4 6.9 7.1 7.4 7.2 7.3 7.0 6.7 6.8	R 7.9 8.4 8.8 8.7 8.6 8.8 8.4 8.1
1 2 3 4 5 6 7 8 9 10 11	9.6 9.1 9.2 9.9 9.7 9.6 10.0 10.1 10.3 11.1	JUNE 8.7 8.6 8.5 8.6 8.4 8.0 7.8 8.0 7.9 7.7	9.2 9.0 8.9 9.2 9.0 8.6 8.7 8.9 9.1 9.3 9.3	9.4 9.9 9.7 9.5 9.6 9.8 8.7 9.8 9.3 8.8	JULY 6.7 7.3 7.5 7.2 7.3 7.4 7.1 7.0 7.0 7.0 6.9	7.8 7.9 8.5 8.3 8.3 8.3 8.3 8.4 7.7 8.1 7.7 7.7	10.7 10.5 10.7 9.5 9.0 9.3 8.6 9.3 9.3 9.1 6.8	AUGUST 7.4 7.0 6.8 6.5 6.7 5.9 5.4 5.4 5.5 5.5 5.5	8.5 8.2 7.5 7.6 6.8 6.8 6.5 6.1	10.9 11.1 11.5 11.0 10.8 11.3 10.6 10.7 10.4 9.7 10.2	6.4 6.9 7.1 7.4 7.2 7.3 7.0 6.7 6.8 6.6 6.5	R 7.9 8.4 8.8 8.7 8.6 8.8 8.4 8.1 8.1 7.8 7.9
1 2 3 4 5 6 7 8 9 10 11 12	9.6 9.1 9.2 9.9 9.7 9.6 10.0 10.1 10.3 11.1	JUNE 8.7 8.6 8.5 8.6 8.4 8.0 7.8 8.0 7.9 7.7 	9.2 9.0 8.9 9.2 9.0 8.6 8.7 8.9 9.1 9.3 9.3	9.4 9.9 9.7 9.5 9.6 9.8 9.8 9.8 9.3 8.8 9.1	JULY 6.7 7.3 7.5 7.2 7.3 7.4 7.1 7.0 7.0 7.0 7.0 7.0	7.8 7.9 8.5 8.3 8.3 8.3 8.4 7.7 8.1 7.7 7.7 7.9	10.7 10.5 10.7 9.5 9.0 9.3 8.6 9.3 9.3 9.1 6.8 7.3	AUGUST 7.4 7.0 6.8 6.5 6.7 5.9 5.4 5.4 5.5 5.5 5.5 5.4 6.5	8.5 8.2 7.5 7.6 7.2 6.6 6.8 6.5 6.1 6.8	10.9 11.1 11.5 11.0 10.8 11.3 10.6 10.7 10.4 9.7 10.2 10.2	EPTEMBE 6.4 6.9 7.1 7.4 7.2 7.3 7.3 6.8 6.7 6.8 6.6 6.5 7.0	TR 7.9 8.4 8.8 8.7 8.6 8.8 8.4 8.1 7.8 7.9 8.2
1 2 3 4 5 6 7 8 9 10 11 12 13 14	9.6 9.1 9.2 9.9 9.7 9.6 10.0 10.1 10.3 11.1 11.2 9.3 9.6	JUNE 8.7 8.6 8.5 8.6 8.4 8.0 7.8 8.0 7.9 7.7 6.8 6.7	9.2 9.0 8.9 9.2 9.0 8.6 8.7 8.9 9.1 9.3 9.3 9.3 8.1 7.9	9.4 9.4 9.9 9.7 9.5 9.6 9.8 9.3 8.8 9.3 8.8 9.1 9.5 9.7	JULY 6.7 7.3 7.5 7.2 7.3 7.4 7.1 7.0 7.0 7.0 7.0 7.0 7.2 7.3	7.8 7.9 8.5 8.3 8.3 8.3 8.4 7.7 8.1 7.7 7.9 8.1 8.2	10.7 10.5 10.7 9.5 9.0 9.3 8.6 9.3 9.3 9.1 6.8 7.3 7.5 7.1	AUGUST 7.4 7.0 6.8 6.5 6.7 5.9 5.4 5.5 5.5 5.5 5.4 6.5 6.6 6.1	8.5 8.2 7.5 7.6 6.8 6.8 6.5 6.1 6.8 7.0 6.6	10.9 11.1 11.5 11.0 10.8 11.3 10.6 10.7 10.4 9.7 10.2 9.6 8.4	EPTEMBE 6.4 6.9 7.4 7.2 7.3 7.0 6.8 6.6 6.5 7.0 6.5 7.0 6.6	7.9 8.4 8.8 8.7 8.6 8.8 8.1 7.8 7.9 8.2 8.1 7.3
1 2 3 4 5 6 7 8 9 10 11 12 13	9.6 9.1 9.2 9.9 9.7 9.6 10.0 10.1 10.3 11.1 11.2 9.3	JUNE 8.7 8.6 8.5 8.6 8.4 8.0 7.8 8.0 7.9 7.7 6.8	9.2 9.0 8.9 9.0 8.6 8.7 8.9 9.1 9.3 9.3 8.1	9.4 9.9 9.7 9.5 9.6 9.8 8.7 9.8 9.3 8.8 9.3 9.3	JULY 6.7 6.7 7.3 7.5 7.2 7.3 7.4 7.1 7.0 7.0 6.9 7.0 7.0 7.2	7.8 7.9 8.5 8.3 8.3 8.3 8.4 7.7 8.1 7.7 7.7 9.1	10.7 10.5 10.7 9.5 9.0 9.3 8.6 9.3 9.1 6.8 7.3 7.5	AUGUST 7.4 7.0 6.8 6.5 6.7 5.9 5.4 5.4 5.5 5.5 5.4 6.5 6.6	8.5 8.2 7.5 7.6 6.6 6.8 6.5 6.1 6.1 6.2 7.0	10.9 11.1 11.5 11.0 10.8 11.3 10.6 10.7 10.4 9.7 10.2 10.2 9.6	EPTEMBE 6.4 6.9 7.1 7.2 7.3 7.0 6.7 6.8 6.6 6.5 7.0 6.9	7.9 8.4 8.8 8.7 8.6 8.6 8.8 8.4 8.1 7.9 8.2 8.1
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	9.6 9.1 9.2 9.9 9.7 9.6 10.0 10.1 10.3 11.1 11.2 9.3 9.6 9.3 8.0	JUNE 8.7 8.6 8.5 8.4 8.0 7.8 8.0 7.9 7.7 6.7 6.9 6.9	9.2 9.0 8.9 9.2 9.0 8.6 8.7 8.9 9.1 9.3 9.3 9.3 8.0 7.4	9.4 9.9 9.7 9.5 9.6 9.8 9.3 8.8 9.3 8.8 9.3 8.8 9.5 9.7 9.6	JULY 6.7 7.3 7.5 7.2 7.3 7.4 7.1 7.0 7.0 7.0 7.0 7.0 7.2 7.3 7.3	7.8 7.9 8.5 8.3 8.3 8.3 8.4 7.7 8.1 7.7 7.9 8.1 8.2 8.2 8.2	10.7 10.5 10.7 9.5 9.0 9.3 8.6 9.3 9.3 9.3 9.1 6.8 7.3 7.5 7.1 7.9 8.5	AUGUST 7.4 7.0 6.8 6.5 6.7 5.9 5.4 5.5 5.5 5.4 6.5 6.1 6.0 6.3	8.5 8.2 7.5 7.6 6.6 6.8 6.5 6.1 6.8 7.0 6.6 8 7.2	10.9 11.1 11.5 11.0 10.8 11.3 10.6 10.7 10.4 9.7 10.2 9.6 8.4 9.7 10.1	EPTEMBE 6.4 6.9 7.4 7.2 7.3 7.0 6.7 6.8 6.6 6.5 7.0 6.6 6.6 7.0 7.5	7.9 8.4 8.7 8.6 8.1 8.1 7.9 8.2 8.1 7.3 8.1 8.2 8.1 8.2 8.1 8.2 8.1 8.2 8.1 8.3 8.4 8.5
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1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	9.6 9.1 9.9 9.7 9.6 10.0 10.1 10.3 11.1 11.2 9.3 9.6 9.3 8.0 8.5 8.9 9.0	JUNE 8.7 8.6 8.5 8.4 8.0 7.8 8.0 7.9 7.7 6.8 6.7 6.9 7.4 7.3 7.3 7.3	9.2 9.0 8.9 9.2 9.0 8.6 8.7 9.3 8.1 7.9 8.0 7.4 7.9 8.0 8.0 8.0	9.4 9.9 9.7 9.5 9.6 9.8 8.7 9.8 9.3 8.8 9.3 8.8 9.1 9.5 9.7 9.6 10.0 8.3 9.6 10.1	JULY 6.7 6.7 7.3 7.5 7.2 7.3 7.4 7.1 7.0 7.0 7.0 7.0 7.0 7.0 7.0 7.0 7.0 7.0 7.0 7.0 7.0 7.1 6.7 6.9 7.1 6.7 6.9 7.1	7.8 7.9 8.5 8.3 8.3 8.3 8.4 7.7 8.1 7.7 7.9 8.1 8.2 8.2 7.4 8.2 7.4 8.1	10.7 10.5 9.0 9.3 8.6 9.3 9.1 6.8 7.3 7.5 7.1 7.9 8.5 8.5 8.8 8.6 9.5	AUGUST 7.4 7.0 6.8 6.5 6.7 5.9 5.4 5.5 5.5 5.5 5.5 6.6 6.1 6.0 6.3 6.5 6.6 6.7 6.9	8.5 8.2 7.6 7.2 6.6 6.8 6.5 7.0 6.6 6.8 7.0 6.6 7.2 7.5 7.6 7.9	10.9 11.1 11.5 11.0 10.8 11.3 10.6 10.7 10.4 9.7 10.2 9.6 8.4 9.7 10.1 10.3 10.3 10.3 10.5 8.4	EPTEMBE 6.4 6.9 7.1 7.4 7.2 7.3 7.0 6.7 6.8 6.6 6.5 7.0 6.9 6.6 6.5 7.0 6.9 6.6 7.0 7.5 7.8 7.5 7.8 7.7 7.6	R 7.9 8.4 8.8 8.7 8.6 8.8 8.4 8.1 7.8 7.9 8.2 8.1 7.3 8.1 8.5 8.6 8.7 8.9 8.0
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