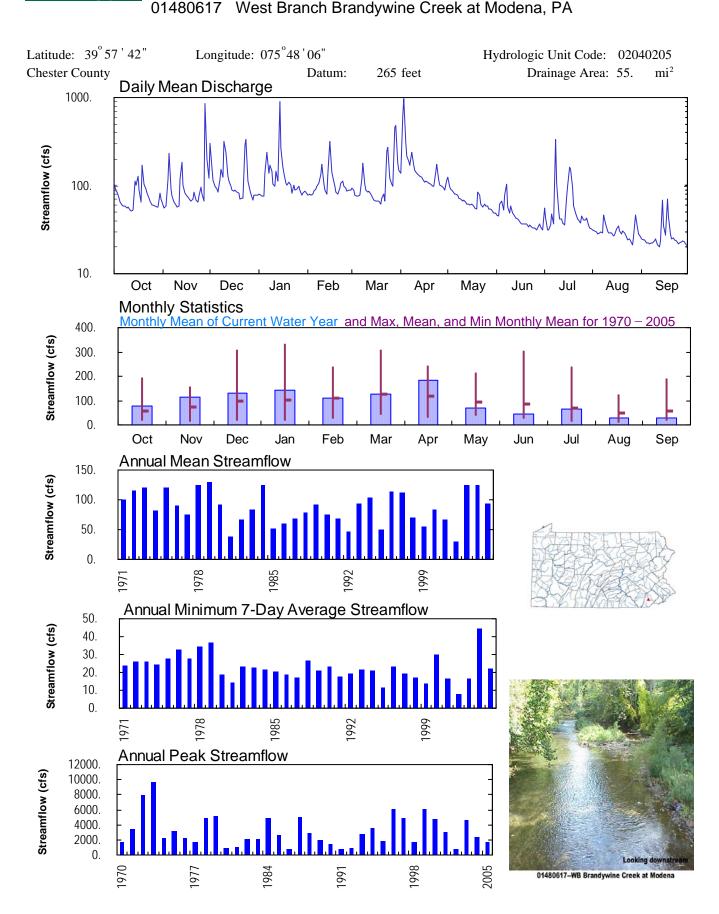


2005 Water Year CHRISTINA RIVER BASIN 7 West Branch Brandywine Creek at Modena, PA



01480617 WEST BRANCH BRANDYWINE CREEK AT MODENA, PA

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

DRAINAGE AREA.--55.0 mi².

WATER-DISCHARGE RECORDS

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

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

GAGE.--Water-stage recorder and crest-stage gage. Elevation of gage is 265 ft above National Geodetic Vertical Datum of 1929, from topographic map.

REMARKS.--Records fair. Slight regulation from Rock Run Reservoir 5.6 mi upstream, capacity, 982 acre-ft, and by Lukens Steel Company. Diversion from Rock Run Reservoir for municipal supply of city of Coatesville reenters creek upstream from gage. Satellite and landline telemetry at station.

COOPERATION.--Records of diversion provided by the Pennsylvania American Water Company.

PEAK DISCHARGES FOR CURRENT YEAR .-- Peak discharges greater than base discharge of 1,000 ft³/s and maximum (*):

		Discharge	Gage Height			Discharge	Gage Height
Date	Time	ft ³ /s	(ft)	Date	Time	ft ³ /s	(ft)
Nov. 28	1000	1,410	6.08	Apr. 3	0345	*1,680	*6.45
Jan. 14	1200	1,490	6.19	July 17	0615	1,220	5.79
Mar. 29	0045	1,110	5.61				

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

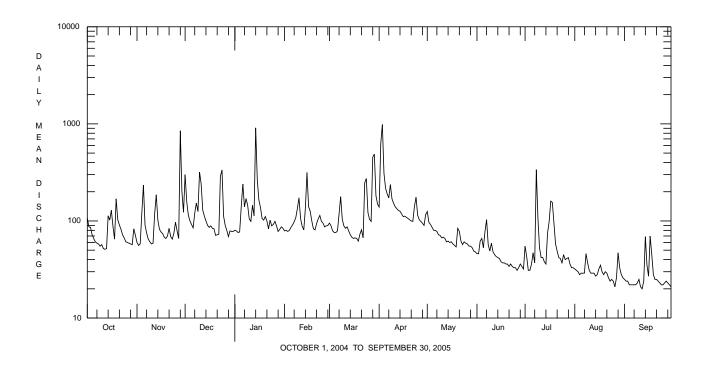
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	107	60	e300	80	79	95	139	125	46	55	32	25
2	87	56	158	79	80	89	625	97	46	43	31	24
3	86	58	115	76	78	79	986	92	62	31	30	24
4	72	120	100	77	80	76	310	86	66	31	28	22
5	66	234	92	e140	86	76	217	80	53	36	29	22
6	61	91	85	e240	91	79	190	80	78	47	29	22
7	59	75	120	e140	98	118	173	78	103	37	29	22
8	58	65	153	e170	108	178	237	72	57	338	46	22
9	55	61	125	e145	134	104	169	71	49	108	37	23
10	57	58	319	e105	173	89	152	67	59	53	31	25
11	52	59	241	99	106	84	140	68	48	42	29	21
12	51	118	129	145	88	87	134	66	45	42	29	20
13	52	186	112	113	81	79	128	61	43	38	29	24
14	113	102	100	910	136	72	126	62	42	36	27	69
15	102	82	90	266	316	68	118	60	41	75	28	35
16	129	77	86	164	140	66	111	61	38	98	32	27
17	88	74	89	138	126	67	112	58	37	e160	35	70
18	65	68	84	106	100	66	109	56	37	e155	30	45
19	169	66	83	102	83	62	106	54	36	e95	28	28
20	103	70	71	111	81	73	103	84	36	58	30	25
21	91	84	72	100	94	81	100	78	34	49	29	25
22	82	69	73	83	105	67	99	62	36	42	26	24
23	72	65	289	102	114	247	141	57	34	41	24	23
24	67	75	335	89	99	274	176	61	33	37	25	22
25	61	97	112	92	95	122	115	59	33	45	24	22
26 27 28 29 30 31	60 59 58 57 83 71	79 66 849 200 123	90 80 69 79 78 78	99 89 78 82 87 84	87 89 90 	104 99 453 488 182 149	103 99 95 90 116	58 55 53 49 48	31 33 36 34 32	40 41 42 36 33 33	21 26 47 33 28 26	23 24 23 22 21
TOTAL	2393	3487	4007	4391	3037	3973	5519	2113	1358	2017	928	824
MEAN	77.2	116	129	142	108	128	184	68.2	45.3	65.1	29.9	27.5
MAX	169	849	335	910	316	488	986	125	103	338	47	70
MIN	51	56	69	76	78	62	90	48	31	31	21	20
CFSM	1.40	2.11	2.35	2.58	1.97	2.33	3.34	1.24	0.82	1.18	0.54	0.50
IN.	1.62	2.36	2.71	2.97	2.05	2.69	3.73	1.43	0.92	1.36	0.63	0.56
STATIST	TICS OF MO	ONTHLY ME	AN DATA FO	OR WATER	YEARS 1970) - 2005,	BY WATER	YEAR (WY))			
MEAN	57.6	74.2	96.3	102	108	127	118	92.8	85.0	67.5	47.7	58.8
MAX	190	157	306	330	235	308	241	213	302	236	123	186
(WY)	1997	2004	1997	1979	1971	1994	1983	1989	1972	1984	1971	1979
MIN	20.0	17.8	21.5	20.1	30.2	43.0	34.7	41.5	28.4	15.4	11.8	20.6
(WY)	2002	2002	1999	1981	2002	1985	2002	1999	1999	2002	2002	2002

e Estimated.

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

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR	FOR 2005 WATER YEAR	WATER YEARS 1970 - 2005
ANNUAL TOTAL	39879	34047	
ANNUAL MEAN	109	93.3	86.3
HIGHEST ANNUAL MEAN			130 1979
LOWEST ANNUAL MEAN			29.7 2002
HIGHEST DAILY MEAN	850 Sep 18	986 Apr 3	4010 Jun 22 1972
LOWEST DAILY MEAN	39 Jul 11	20 Sep 12	7.4 Aug 23 2002
ANNUAL SEVEN-DAY MINIMUM	44 Sep 11	22 Sep 6	8.1 Aug 17 2002
MAXIMUM PEAK FLOW		1680 Apr 3	a 9600 Jun 29 1973
MAXIMUM PEAK STAGE		6.45 Apr 3	12.47 Jun 29 1973
ANNUAL RUNOFF (CFSM)	1.98	1.70	1.57
ANNUAL RUNOFF (INCHES)	26.97	23.03	21.31
10 PERCENT EXCEEDS	161	154	149
50 PERCENT EXCEEDS	88	75	57
90 PERCENT EXCEEDS	50	28	25

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



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

WATER-QUALITY RECORDS

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

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: May 1971 to October 1977, August 1981 to current year. pH: May 1971 to October 1977, August 1981 to current year. WATER TEMPERATURES: May 1971 to October 1977, August 1981 to current year. DISSOLVED OXYGEN: May 1971 to October 1977, August 1981 to current year.

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

REMARKS.--Specific conductance record rated fair except for period Feb. 28 to Apr. 19, which is poor. pH record rated good except for periods June 2-7 and Aug. 11 to Sept. 14, which are fair. Water temperature record rated fair except for periods Oct. 14-21, Mar. 29-31, and Apr. 1, 4, 5, which are poor. Dissolved oxygen record rated fair except for periods Oct. 1 to Mar. 28 and July 16-19, which are poor. Data collection discontinued during winter months since 1981 water year. Other interruptions in the record were due to malfunctions of the equipment.

EXTREMES FOR PERIOD OF DAILY RECORD.--

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

pH: Maximum, 10.0, Dec. 21, 1971; minimum, 5.9, July 14, 1991. WATER TEMPERATURE: Maximum, 33.5°C, July 19, 1977; minimum, 0.0°C, many days during winters.

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

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

Date	Time	Agency col- lecting sample, code (00027)	ana- lyzing sample,	taneous dis-	Dis- solved oxygen, mg/L (00300)		tance, wat unf μS/cm 25 degC		0.7µ MF col/ 100 mL
MAR 2005									
08	1320	1028	1028	172	13.2	7.8	292	6.0	740
28	1415	1028	1028	292	11.2	7.9	241	7.2	4100
APR	1010	1000	1000	1 2 2	10 5	8.3	256	11 6	720
12 26	1210 1140	1028 1028	1028 1028	133 102	10.5 13.4	8.3 7.9	256	11.6 11.0	8300
MAY	1140	1020	1020	102	13.4	1.9	275	11.0	0300
04	1050	1028	1028	88	12.9	7.8	302	11.3	2500
17	1025	1028	1028	59	13.2	8.0	300	14.7	590
24	0905	1028	1028	59	9.4	7.5	293	14.1	600
JUN									
07	0830	1028	1028	119	9.0	7.5	241	19.2	6000
20	0800	1028	1028	36	8.5	7.6	338	17.1	4700
27 JUL	1250	1028	1028	38	9.4	7.7	341	22.4	3100
07	0740	1028	1028	36	7.1	7.5	320	21.6	3300
19	1000	1028	1028	E95	8.1	7.7	319	22.9	3000
28	1220	1028	1028	46	11.3	8.5	338	23.9	1300
AUG									
03	1115	1028	1028	31	9.5	8.0	382	24.0	430
25	0900	1028	1028	25	7.9	7.7	466	19.0	E1500
31	0930	1028	1028	26	6.5	7.6	419	23.3	1200
SEP	0005	1000	1000	22	7 5	7 6	465	10 1	500
08 22	0825 0755	1028 1028	1028 1028	22 E24	7.5 7.1	7.6 7.7	465 443	18.1 18.7	E670 470
44	0755	1020	1020	27	/ • ±			10.1	470

Fecal

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

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)	Calcium water, fltrd, mg/L (00915)	Magnes- ium, water, fltrd, mg/L (00925)	Potas- sium, water, fltrd, mg/L (00935)
NOV 2004 03	0930	1028	80020	59	10.4	8.0	7.8	307	327	13.0	29.2	9.86	4.43
Date	Sodium, water, fltrd, mg/L (00930)	ANC, wat unf fixed end pt, lab, mg/L as CaCO3 (90410)	ANC, wat unf incrm. titr., field, mg/L as CaCO3 (00419)	Chlor- ide, water, fltrd, mg/L (00940)	<pre>Fluor- ide, water, fltrd, mg/L (00950)</pre>	Silica, water, fltrd, mg/L (00955)	Sulfate water, fltrd, mg/L (00945)	Ammonia water, fltrd, mg/L as N (00608)	Nitrite + nitrate water fltrd, mg/L as N (00631)	Nitrite water, fltrd, mg/L as N (00613)	Ortho- phos- phate, water, fltrd, mg/L as P (00671)	Alum- inum, water, fltrd, μg/L (01106)	Arsenic water, fltrd, µg/L (01000)
NOV 2004 03	16.1	67	85	30.7	. 2	12.0	23.7	<.04	4.40	.019	.05	15	<2
	NC	Date NV 2004 03	Boron, water, fltrd, µg/L (01020) 42	Cadmium water, fltrd, µg/L (01025) <.2	Chrom- ium, water, fltrd, µg/L (01030) 3.3	Copper, water, fltrd, µg/L (01040) 3.9	Iron, water, fltrd, μg/L (01046) 38	Lead, water, fltrd, µg/L (01049) E.6	Mangan- ese, water, fltrd, µg/L (01056) 14.4	Mercury water, fltrd, μg/L (71890) <.01	Molyb- denum, water, fltrd, µg/L (01060) 13.4	Nickel, water, fltrd, µg/L (01065) E1.9	

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

BIOLOGICAL DATA BENTHIC MACROINVERTEBRATES

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

Date	11/03/04
Benthic macroinvertebrate	Count
Platyhelminthes	
Turbellaria (FLATWORMS)	
Tricladida	
Planariidae	31
Nematoda (NEMATODES)	33
Nemertea (PROBOSCIS WORMS)	
Enopla	
Hoplonemertea	
Tetrastemmatidae	
Prostoma	5
Mollusca	
Gastropoda (SNAILS)	
Basommatophora	
Ancylidae	
Ferrissia	4
Bivalvia (CLAMS)	
Veneroida	
Sphaeriidae	1
Annelida	
Oligochaeta (AQUATIC EARTHWORMS)	
Lumbriculida	
Lumbriculidae	7
Arthropoda	
Acariformes	
Hydrachnidia (WATER MITES)	3
Crustacea	
Amphipoda (SCUDS)	
Gammaridae	
Gammarus	2
Insecta	
Ephemeroptera (MAYFLIES)	
Heptageniidae	
Stenonema	3
Trichoptera (CADDISFLIES)	
Hydropsychidae	
Cheumatopsyche	13
Hydropsyche	69
Hydroptilidae	
Leucotrichia	1
Lepidoptera	
Pyralididae(MOTHS)	
Petrophila	1

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

BIOLOGICAL DATA BENTHIC MACROINVERTEBRATES--Continued

Date	11/03/04
Benthic macroinvertebrate	Count
Coleoptera (BEETLES)	
Elmidae (RIFFLE BEETLES)	
Optioservus	14
Oulimnius	6
Stenelmis	27
Psephenidae (WATER PENNIES)	
Psephenus	1
Diptera (TRUE FLIES)	
Chironomidae (MIDGES)	178
Empididae (DANCE FLIES)	
Hemerodromia	11
Tipulidae (CRANE FLIES)	
Antocha	1
Total organisms	411
Total number of taxa	20

01480617 WEST BRANCH BRANDYWINE CREEK AT MODENA, 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		1	DECEMBER			JANUARY	
1	315	285	299	340	311	326						
2	327	312	320	341	325	333						
3 4	338 345	310 325	324 333	353 350	317 219	337 305						
5	343	309	327	256	202	233						
6	341	328	334	306	256	274						
о 7	341	328 320	334	308	283	295						
8	338	323	332	334	293	310						
9 10	345 336	326 315	336 328	336 392	317 316	330 337						
10			520			557						
11	350	315	331	339	322	332 294						
12 13	352 400	331 333	341 350	339 254	234 216	294						
14	349	188	285	284	244	267						
15	324	190	294	303	268	287						
16	290	231	268	321	296	307						
17	307	274	291	320	299	310						
18 19				327 327	307 311	318 317						
20				318	285	312						
21				304	285	294						
22	322	307	313	321	285	304						
23	379	313	329	329	302	315						
24 25	396 337	330 313	350 326	329 313	306 284	317 298						
26 27	337 339	318 323	328 331	316 316	277 294	295 304						
28	338	323	330									
29	338	322	332									
30 31	339 330	263 300	311 316									
MONTH	400	188	322	392	202	303						
אַמ	ΜΔΧ	MIN	MEAN	ΜΔΧ	MTN	MEAN	мдх	MTN	MEAN	мдх	MTN	MEAN
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
DAY		MIN FEBRUARY	MEAN	MAX	MIN MARCH	MEAN	MAX	MIN APRIL	MEAN	MAX	MIN MAY	MEAN
1		FEBRUARY	MEAN	MAX 784		449	299	APRIL 289	294	289	MAY 259	270
1 2	1 	FEBRUARY 		784 404	MARCH 338 336	449 355	299 296	APRIL 289 152	294 218	289 292	MAY 259 273	270 283
1	1	FEBRUARY		784 404 361	MARCH 338 336 334	449 355 350	299	APRIL 289	294	289 292 297	MAY 259 273 278	270 283 287
1 2 3	I 	FEBRUARY 		784 404	MARCH 338 336	449 355	299 296 191	APRIL 289 152 137	294 218 157	289 292	MAY 259 273	270 283
1 2 3 4 5	 	FEBRUARY 	 	784 404 361 338 328	MARCH 338 336 334 324 313	449 355 350 331 322	299 296 191 278	APRIL 289 152 137 258	294 218 157 268	289 292 297 304 306	MAY 259 273 278 286 280	270 283 287 296 295
1 2 3 4 5 6 7	1 	FEBRUARY	 	784 404 361 338 328 327 320	MARCH 338 336 334 324 313 302 254	449 355 350 331 322 315 298	299 296 191 278 294 294	APRIL 289 152 137 258 278 243	294 218 157 268 284 279	289 292 297 304 306 309 308	MAY 259 273 278 286 280 296 294	270 283 287 296 295 303 301
1 2 3 4 5 6 7 8	1 	FEBRUARY		784 404 361 338 328 327 320 339	MARCH 338 336 334 324 313 302 254 244	449 355 350 331 322 315 298 278	299 296 191 278 294 294 278	APRIL 289 152 137 258 278 243 237	294 218 157 268 284 279 250	289 292 297 304 306 309 308 308	MAY 259 273 278 286 280 296 294 295	270 283 287 296 295 303 301 303
1 2 3 4 5 6 7	 	FEBRUARY	 	784 404 361 338 328 327 320	MARCH 338 336 334 324 313 302 254	449 355 350 331 322 315 298	299 296 191 278 294 294	APRIL 289 152 137 258 278 243	294 218 157 268 284 279	289 292 297 304 306 309 308	MAY 259 273 278 286 280 296 294	270 283 287 296 295 303 301
1 2 3 4 5 6 7 8 9 10	 	FEBRUARY	 	784 404 361 338 328 327 320 339 331 313	MARCH 338 336 334 324 313 302 254 244 282 288	449 355 350 331 322 315 298 278 305 301	299 296 191 278 294 294 278 272 274	APRIL 289 152 137 258 278 243 237 261 268	294 218 157 268 284 279 250 266 271	289 292 297 304 306 309 308 308 313 317	MAY 259 273 278 286 280 296 294 295 295 298	270 283 287 296 295 303 301 303 304 307
1 2 3 4 5 6 7 8 9 10 11	 	FEBRUARY	 	784 404 361 338 328 327 320 339 331 313 328	MARCH 338 336 334 324 313 302 254 244 282 288 293	449 355 350 331 322 315 298 278 305 301 300	299 296 191 278 294 294 294 278 272 274 280	APRIL 289 152 137 258 278 243 237 261 268 268	294 218 157 268 284 279 250 266 271 273	289 292 297 304 306 309 308 313 317 317	MAY 259 273 278 286 280 296 294 295 295 295 298 285	270 283 287 296 295 303 301 303 304 307 306
1 2 3 4 5 6 7 8 9 10 11 12 13	1 	FEBRUARY		784 404 361 328 328 327 320 339 331 313 328 329 295	MARCH 338 336 334 324 313 302 254 244 282 288 293 286 280	449 355 350 331 322 315 298 278 305 301 300 299 289	299 296 191 278 294 294 278 272 274 280 281 286	APRIL 289 152 137 258 278 243 237 261 268 268 268 272 271	294 218 157 268 284 279 250 266 271 273 276 276	289 292 297 304 306 309 308 308 313 317 317 322 321	MAY 259 273 278 286 280 296 294 295 295 295 295 298 285 308 285	270 283 287 296 295 303 301 303 304 307 306 315 310
1 2 3 4 5 6 7 8 9 10 11 12 13 14	1 	FEBRUARY		784 404 361 338 328 327 320 339 331 313 313 328 339 295 298	MARCH 338 336 334 324 313 302 254 244 282 288 293 286 280 281	449 355 350 331 322 315 298 278 305 301 300 299 289 290	299 296 191 278 294 294 274 274 280 281 286 286	APRIL 289 152 137 258 278 243 261 268 268 272 271 270	294 218 157 268 284 279 250 266 271 273 276 277	289 292 297 304 306 309 308 313 317 317 322 321 322	MAY 259 273 278 286 280 294 295 295 298 285 308 285 308 304	270 283 287 296 295 303 301 303 304 307 306 315 310 314
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15		FEBRUARY		784 404 361 338 328 327 320 339 331 313 313 328 339 295 298 302	MARCH 338 336 334 324 313 302 254 244 282 288 293 286 280 281 286	449 355 350 331 322 315 298 278 305 301 300 299 289 290 293	299 296 191 278 294 294 278 272 274 280 281 286 286 286	APRIL 289 152 137 258 278 243 237 261 268 272 271 270 274	294 218 157 268 284 279 250 266 271 273 276 276 277 280	289 292 297 304 306 309 308 308 313 317 317 322 321 322 321	MAY 259 273 286 280 294 295 295 298 285 308 286 304 302	270 283 287 296 295 301 303 301 303 304 307 306 315 310 314 312
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16		FEBRUARY		784 404 361 338 328 327 320 339 331 313 328 339 295 298 302 302	MARCH 338 336 334 324 313 302 254 244 282 288 293 286 280 281 286 281 286 287	449 355 350 331 322 315 298 278 305 301 300 299 289 290 293 294	299 296 191 278 294 294 294 274 272 274 280 281 286 286 286 286 286	APRIL 289 152 137 258 278 243 261 268 268 272 271 270 274 278	294 218 157 268 284 279 250 266 271 273 276 277 280 282	289 292 297 304 306 309 308 313 317 317 322 321 322 321 322 321	MAY 259 273 286 280 296 294 295 295 298 285 308 285 308 304 302 297	270 283 287 296 295 303 301 303 304 307 306 315 310 314 312 307
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15		FEBRUARY		784 404 361 338 328 327 320 339 331 313 313 328 339 295 298 302	MARCH 338 336 334 324 313 302 254 244 282 288 293 286 280 281 286	449 355 350 331 322 315 298 278 305 301 300 299 289 290 293	299 296 191 278 294 294 278 272 274 280 281 286 286 286	APRIL 289 152 137 258 278 243 237 261 268 272 271 270 274	294 218 157 268 284 279 250 266 271 273 276 276 277 280	289 292 297 304 306 309 308 308 313 317 317 322 321 322 321	MAY 259 273 286 280 294 295 295 298 285 308 286 304 302	270 283 287 296 295 301 303 301 303 304 307 306 315 310 314 312
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19		FEBRUARY		784 404 361 338 328 327 320 339 331 313 313 328 339 295 298 302 302 302 303 303 306	MARCH 338 336 334 324 313 302 254 244 282 288 293 286 280 281 286 287 287 287 287 287 287 287 287	449 355 350 331 322 315 298 278 305 301 300 299 289 290 293 294 296 294 297	299 296 191 278 294 294 294 272 274 280 281 286 286 286 286 286 286 287 287 287 287	APRIL 289 152 137 258 278 243 261 268 272 261 268 272 271 270 274 278 273 270 274	294 218 157 268 284 279 250 266 271 273 276 277 280 282 278 277 283	289 292 297 304 306 309 308 313 317 317 322 321 322 321 322 321 320 318 322 324	MAY 259 273 286 280 294 295 295 298 285 308 285 308 285 308 285 304 302 297 298 300 300	270 283 287 296 295 303 301 303 304 307 306 315 310 314 312 307 307 309 314
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18		FEBRUARY		784 404 361 338 328 327 320 339 331 313 313 328 339 295 298 302 302 302 302 303	MARCH 338 336 334 324 313 302 254 244 244 282 288 293 286 280 281 286 287 288	449 355 350 331 322 315 298 278 305 301 300 299 289 290 293 294 294 296 294	299 296 191 278 294 294 278 272 274 280 281 286 286 286 286 286 287 287 286	APRIL 289 152 137 258 278 243 237 261 268 268 272 271 270 274 278 273 270	294 218 157 268 284 279 250 266 271 273 276 276 277 280 282 278 277	289 292 297 304 306 308 308 313 317 317 322 321 322 321 320 318 322	MAY 259 273 278 286 280 294 295 295 298 285 308 286 304 302 297 298 300	270 283 287 296 295 301 301 303 304 307 306 315 310 314 312 307 309
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21		FEBRUARY		784 404 361 338 328 327 320 339 331 313 328 339 295 298 302 302 302 302 303 306 302 293	MARCH 338 336 334 324 313 302 254 282 288 293 286 280 281 286 287 287 287 287 287 287 287 287	449 355 350 331 322 315 298 278 305 301 300 299 289 290 293 294 296 294 297 295 281	299 296 191 278 294 294 294 272 274 280 281 286 286 286 286 286 286 286 287 287 287 287 289 309	APRIL 289 152 137 258 278 243 261 268 268 272 271 270 274 278 273 270 274 286 289	294 218 157 268 284 279 250 266 271 273 276 277 280 282 278 277 280 282 278 277 283 291 296	289 292 297 304 306 309 308 313 317 317 322 321 322 321 322 321 322 321 322 321 322 321 322 324 328 308	MAY 259 273 286 280 294 295 298 285 308 285 308 285 308 285 304 302 297 298 300 201 297 298 300 261	270 283 287 296 295 303 301 303 304 307 306 315 310 314 312 307 307 309 314 301 287
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22		FEBRUARY		784 404 361 338 328 327 320 339 331 313 328 339 295 298 302 302 302 310 303 306 302 293 296	MARCH 338 336 334 324 313 302 254 244 282 288 293 286 280 281 286 287 287 288 287 289 274 281	449 355 350 331 322 315 298 278 305 301 300 299 289 290 293 294 296 294 296 294 295 281 287	299 296 191 278 294 294 278 272 274 280 281 286 286 286 286 286 286 286 286 287 287 287 287 289 309 301	APRIL 289 152 137 258 278 243 237 261 268 268 272 271 270 274 278 273 270 274 286 289 289	294 218 157 268 284 279 250 266 271 273 276 277 280 282 277 280 282 278 277 280 282 278 277 280 282 278 277 280 282	289 292 297 304 306 309 308 313 317 317 322 321 322 321 322 321 320 318 322 324 328 308 310	MAY 259 273 278 286 280 294 295 295 298 285 308 286 304 302 297 298 300 300 300 261 272 291	270 283 296 295 303 301 303 304 307 306 315 310 314 312 307 307 309 314 301 287 302
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21		FEBRUARY		784 404 361 338 328 327 320 339 331 313 328 339 295 298 302 302 302 302 303 306 302 293	MARCH 338 336 334 324 313 302 254 282 288 293 286 280 281 286 287 287 287 287 287 287 287 287	449 355 350 331 322 315 298 278 305 301 300 299 289 290 293 294 296 294 297 295 281	299 296 191 278 294 294 294 272 274 280 281 286 286 286 286 286 286 286 287 287 287 287 289 309	APRIL 289 152 137 258 278 243 261 268 268 272 271 270 274 278 273 270 274 286 289	294 218 157 268 284 279 250 266 271 273 276 277 280 282 278 277 280 282 278 277 283 291 296	289 292 297 304 306 309 308 313 317 317 322 321 322 321 322 321 322 321 322 321 322 321 322 324 328 308	MAY 259 273 286 280 294 295 298 285 308 285 308 285 308 285 304 302 297 298 300 201 297 298 300 261	270 283 287 296 295 303 301 303 304 307 306 315 310 314 312 307 307 309 314 301 287
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23		FEBRUARY		784 404 361 338 328 327 320 339 331 313 328 339 295 298 302 302 310 303 306 302 293 296 297	MARCH 338 336 324 313 302 254 244 282 288 293 286 280 281 286 287 287 287 288 287 287 287 287	449 355 350 331 322 315 298 278 305 301 300 299 289 290 293 294 296 294 295 295 281 287 263	299 296 191 278 294 294 278 272 274 280 281 286 286 286 286 286 287 287 287 286 297 299 309 301	APRIL 289 152 137 258 278 243 237 261 268 272 271 270 274 278 273 270 274 286 289 289 208	294 218 157 268 284 279 250 266 271 273 276 276 276 276 277 280 282 278 277 280 282 278 277 283 291 296 295 277	289 292 297 304 306 308 313 317 317 322 321 322 321 322 321 322 321 322 321 322 321 322 321 320 318 322 324 328 308 310 320	MAY 259 273 278 286 280 294 295 298 285 308 286 304 302 297 298 300 300 261 272 291	270 283 287 296 295 301 301 303 304 307 306 315 310 314 312 307 309 314 301 287 302 306
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		FEBRUARY		784 404 361 338 328 327 320 339 331 313 328 339 295 298 302 302 302 310 303 306 302 293 296 297 266 286	MARCH 338 336 324 313 302 254 244 244 282 288 293 286 280 281 286 287 287 287 287 287 289 274 281 213 213 213 213 266	449 355 350 331 322 315 298 278 305 301 300 299 289 299 299 293 294 296 294 297 295 281 287 263 235 277	299 296 191 278 294 294 274 274 280 281 286 286 286 286 286 286 287 287 287 289 299 309 301 301 255 275	APRIL 289 152 137 258 278 243 237 261 268 268 272 271 270 274 278 273 270 274 286 289 289 289 208 229 255	294 218 157 268 284 279 250 266 271 273 276 276 276 276 277 280 282 278 277 283 291 296 295 277 244 266	289 292 297 304 306 308 313 317 322 321 322 321 322 321 322 321 322 321 322 321 322 321 322 321 328 308 310 320 323 318	 MAY 259 273 278 286 294 295 298 285 308 286 304 302 297 298 300 300 261 272 298 289 289 289 	270 283 287 296 295 301 301 303 304 307 306 315 310 314 312 307 309 314 301 287 302 306 309 308
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		FEBRUARY		784 404 361 338 328 327 320 339 331 313 313 328 339 295 298 302 302 302 302 302 302 302 302 302 302	MARCH 338 336 334 324 313 302 254 244 282 288 293 286 280 281 286 287 288 287 288 287 289 274 281 213 266 280 286	449 355 350 331 322 315 298 278 305 301 300 299 289 290 293 294 294 295 281 287 295 281 287 263 2277 295	299 296 191 278 294 294 274 280 281 286 286 286 286 286 286 286 287 287 287 287 289 301 301 301 301 301 301 255 275	APRIL 289 152 137 258 278 243 261 268 272 271 270 274 278 273 270 274 286 289 289 208 229 255 268 280	294 218 157 268 284 279 250 266 271 273 276 277 280 282 278 277 280 282 278 277 283 291 296 295 277 244 266 276 286	289 292 297 304 306 308 313 317 322 321 322 321 322 321 322 321 322 321 322 321 322 321 322 321 322 321 322 321 322 321 322 321 322 324 328 310 323 318 319 325	MAY 259 273 278 286 280 294 295 298 285 308 285 308 286 304 302 297 298 300 300 300 261 272 291 292 292 298 296 294 295 295 295 295 295 295 295 295	270 283 296 295 303 301 303 304 307 306 315 310 314 312 307 307 309 314 301 287 302 306 309 308 309 315
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		FEBRUARY		784 404 361 338 328 327 320 339 331 313 328 339 295 298 302 302 302 302 302 302 303 303 296 297 266 286 300 303 298	MARCH 338 336 324 313 302 254 244 244 282 288 293 286 280 281 286 287 287 287 288 287 289 274 213 213 213 216 280 281 213 213 215 289	449 355 350 331 322 315 298 278 305 301 300 299 299 299 299 293 294 296 294 295 294 295 281 287 263 235 277 295 242	299 296 191 278 294 294 294 272 274 280 281 286 286 286 286 286 286 286 287 287 287 287 287 299 301 301 255 275 293 309 301	APRIL 289 152 137 258 278 243 237 261 268 272 271 270 274 278 273 270 274 286 289 289 208 229 255 268 280 283	294 218 157 268 284 279 250 266 271 273 276 276 276 276 277 280 282 278 277 283 291 296 295 277 244 266 276 295	289 292 297 304 306 308 313 317 322 321 322 321 322 321 322 321 320 318 322 324 328 308 310 320 323 318 319 325 336	 MAY 259 273 278 286 294 295 298 285 308 286 304 302 297 298 300 300 261 272 298 289 296 304 303 	270 283 287 296 295 301 301 303 304 307 306 315 310 314 312 307 309 314 301 287 302 306 309 308 309 308 309 315 317
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		FEBRUARY		784 404 361 338 328 327 320 339 331 313 313 328 339 295 298 302 302 302 302 302 302 302 302 302 302	MARCH 338 336 334 324 313 302 254 244 282 288 293 286 280 281 286 287 288 287 288 287 289 274 281 213 266 280 286	449 355 350 331 322 315 298 278 305 301 300 299 289 290 293 294 294 295 281 287 295 281 287 263 2277 295	299 296 191 278 294 294 274 280 281 286 286 286 286 286 286 286 287 287 287 287 289 301 301 301 301 301 301 255 275	APRIL 289 152 137 258 278 243 261 268 272 271 270 274 278 273 270 274 286 289 289 208 229 255 268 280	294 218 157 268 284 279 250 266 271 273 276 277 280 282 278 277 280 282 278 277 283 291 296 295 277 244 266 276 286	289 292 297 304 306 308 313 317 322 321 322 321 322 321 322 321 322 321 322 321 322 321 322 321 322 321 322 321 322 321 322 321 322 324 328 310 323 318 319 325	MAY 259 273 278 286 280 294 295 298 285 308 285 308 286 304 302 297 298 300 300 300 261 272 291 292 292 298 296 294 295 295 295 295 295 295 295 295	270 283 296 295 303 301 303 304 307 306 315 310 314 312 307 307 309 314 301 287 302 306 309 308 309 315
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		FEBRUARY		784 404 361 338 327 320 339 331 313 328 339 295 298 302 302 302 302 302 302 302 302 302 302	MARCH 338 336 334 324 313 302 254 282 288 293 286 280 281 286 287 287 287 287 287 289 274 281 213 213 266 280 286 287 289 274 281 213 266 280 286 287 289 274 281 213 266 280 286 287 289 274 287 289 274 287 289 274 287 287 289 274 287 287 289 274 287 287 289 274 287 287 287 289 274 287 287 289 274 287 287 287 289 274 287 287 287 287 289 274 287 287 289 274 287 289 274 287 289 274 287 287 289 274 287 289 274 281 213 266 281 266 287 287 289 274 287 289 274 281 213 266 287 287 287 287 289 277 287 287 289 277 287 287 287 289 277 289 277 281 213 266 280 271 266 287 287 287 289 274 281 266 280 281 266 287 287 287 289 274 286 287 287 289 274 286 287 287 289 274 286 287 287 287 287 289 274 286 287 287 289 274 286 280 274 286 287 287 266	449 355 350 331 322 315 298 278 305 301 300 299 290 293 294 296 294 297 295 281 287 295 281 287 295 281 287 295 281 235 277	299 296 191 278 294 294 272 274 280 281 286 286 286 286 286 286 286 286 287 287 299 301 301 255 275 293 296 301 305	APRIL 289 152 137 258 278 243 261 268 272 271 270 274 278 273 270 274 286 289 289 289 289 208 229 255 268 283 292	294 218 157 268 284 279 250 266 271 273 276 277 280 282 278 277 283 291 296 295 277 283 291 296 295 277 244 266 295 277 244 266 295 277	289 292 297 304 306 309 308 313 317 322 321 322 321 322 321 322 321 322 321 322 321 322 321 322 321 322 323 318 310 323 318 319 325 336 337	MAY 259 273 286 280 294 295 295 298 285 308 285 308 286 304 302 297 298 300 261 272 291 292 298 289 296 304 303 306	270 283 287 296 295 303 301 303 304 307 306 315 310 314 312 307 307 307 309 314 301 287 302 306 309 314 301 309 315 317 322
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		FEBRUARY		784 404 361 338 328 327 320 339 331 313 313 328 339 295 298 302 302 302 302 302 302 302 302 302 302	MARCH 338 336 334 324 313 302 254 244 282 288 293 286 280 281 286 287 288 287 288 287 289 274 281 213 266 280 286 171 164 242	449 355 350 331 322 315 298 278 305 301 300 299 299 290 293 294 294 295 281 287 263 294 295 281 287 263 235 277 290 295 242 201 260	299 296 191 278 294 294 272 274 280 281 286 286 286 286 286 286 286 287 287 289 301 301 301 255 275 293 296 305 303	APRIL 289 152 137 258 278 243 261 268 272 271 270 274 278 273 270 274 286 289 289 208 229 255 268 280 283 292 259	294 218 157 268 284 279 250 266 271 273 276 277 280 282 278 277 280 282 278 277 283 291 296 295 277 283 291 296 295 277 244 266 290 298 285	289 292 297 304 306 308 313 317 322 321 322 321 322 321 322 321 322 321 322 321 322 321 322 321 322 321 322 321 322 321 322 324 328 310 320 318 310 320 318 310 325 336 317 333	MAY 259 273 278 286 280 294 295 295 298 285 308 286 304 302 297 298 300 261 272 291 292 298 300 261 272 291 292 298 300 261 292 298 300 261 295 295 295 298 300 261 295 295 298 300 201 300 261 300 261 295 295 295 298 296 294 295 295 298 296 294 295 295 298 298 296 294 295 295 298 298 296 294 295 295 298 298 298 298 298 298 298 298 298 298	270 283 296 295 303 301 303 304 307 306 315 310 314 312 307 307 309 314 301 287 302 306 309 314 301 287 302 306 309 315 317 322 323

01480617 WEST BRANCH BRANDYWINE CREEK AT MODENA, 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		2	SEPTEMBE	R
1	347	314	331	384	224	338	403	365	387	428	387	408
2	348	314	333	342	262	311	413	364	392	404	366	387
3	345	270	320	373	331	350	424	380	400	413	375	395
4	325	294	310	411	343	372	426	398	412	421	386	407
5	350	323	335	411	311	366	406	370	388	459	382	413
6	356	176	325	371	296	337	402	360	384	460	426	450
7	297	254	274	358	316	335	396	363	382	468	443	459
8	316	281	299	358	141	228	400	240	350	469	439	456
9	347	305	321	290	217	260	364	326	348	455	409	431
10	335	290	318	339	290	314	384	351	369	416	388	405
11	336	312	325	354	327	342	387	354	377	406	363	392
12	343	310	327	377	320	348	399	360	381	433	375	406
13	348	319	336	383	320	355	397	361	382	432	382	408
14	348	315	332	390	357	376	397	369	387	418	135	347
15	358	320	336	394	157	340	400	364	384	381	264	327
16	357	328	346	307	181	274	402	367	385	393	354	378
17	366	331	351	294	114	230	374	354	365	400	160	305
18	363	333	349	290	198	250	393	351	375	360	256	309
19	354	330	345	354	260	317	424	386	404	444	356	388
20	352	330	344	383	341	361	430	375	395	470	403	440
21	353	325	343	407	375	388	445	357	389	434	408	421
22	363	330	347	413	382	398	433	364	390	465	409	440
23	369	336	355	416	384	400	465	406	436	463	385	442
24	366	333	354	415	388	402	434	400	420	414	381	396
25	368	335	355	417	310	372	471	423	455	426	390	409
26 27 28 29 30 31	366 373 365 361 370 	335 339 329 324 342	355 360 345 342 360	392 385 348 411 417 403	344 270 283 347 382 371	370 362 337 371 398 391	472 466 445 414 429 439	416 421 213 355 407 406	448 444 365 378 416 421	455 442 467 538 493	385 394 408 400 421	417 414 427 484 472
MONTH	373	176	336	417	114	342	472	213	394	538	135	408

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

											102	
DAY	MAX	MIN I	MEDIAN	MAX	MIN	MEDIAN	MAX	MIN	MEDIAN	MAX	MIN	MEDIAN
		OCTOBER		N	OVEMBER		I	DECEMBE	R		JANUAR	Y
1 2 3 4 5	7.6 7.6 7.7 7.7 7.8	7.5 7.6 7.6 7.6 7.6	7.6 7.6 7.6 7.6 7.6	8.1 8.2 8.3 7.8 7.5	7.4 7.5 7.5 7.5 7.4	7.6 7.6 7.6 7.6 7.4	 	 	 	 	 	
6 7 8 9 10	7.8 7.8 7.9 7.9 8.0	7.6 7.6 7.6 7.6 7.5	7.6 7.6 7.6 7.6 7.7	7.7 7.8 7.8 7.8 7.8 7.8	7.4 7.5 7.4 7.5 7.5	7.5 7.5 7.6 7.6 7.6	 	 	 	 	 	
11 12 13 14 15	8.0 7.8 7.8 7.8 7.9	7.6 7.6 7.6 7.6 7.4	7.7 7.7 7.7 7.6 7.6	7.9 7.5 7.4 7.5 7.6	7.5 7.3 7.4 7.4	7.6 7.5 7.4 7.5 7.5	 	 	 	 	 	
16 17 18 19 20	7.9 7.9 	7.6 7.6 	7.6 7.7 	7.6 7.7 8.0 8.4 8.1	7.4 7.4 7.5 7.5 7.4	7.5 7.5 7.5 7.6 7.5	 	 	 	 	 	
21 22 23 24 25	8.0 7.9 7.9 8.1	7.6 7.6 7.6 7.6	7.7 7.7 7.7 7.7 7.7	8.3 8.4 8.1 7.7 7.9	7.4 7.4 7.5 7.5 7.4	7.6 7.6 7.5 7.5 7.5	 	 	 	 	 	
26 27 28 29 30 31	8.0 8.2 8.1 8.0 7.8 7.9	7.6 7.6 7.6 7.5 7.5	7.7 7.7 7.7 7.6 7.6 7.5	8.2 8.3 	7.5 7.5 	7.6 7.6 	 	 	 	 	 	
MAX MIN	8.2 7.6	7.6 7.4	7.7 7.5	8.4 7.4	7.5 7.3	7.6 7.4						

01480617 WEST BRANCH BRANDYWINE CREEK AT MODENA, 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
	1	FEBRUAR	Y		MARCH			APRIL			MAY	
1 2 3 4 5	 	 	 	8.5 8.6 8.5 8.6 8.6	7.6 7.6 7.6 7.6 7.6	7.7 7.8 7.7 7.8 7.8 7.7	8.2 7.8 7.5 	7.5 7.5 7.4 	7.8 7.6 7.4 	8.5 8.2 8.6 8.6 8.7	7.3 7.3 7.4 7.4 7.4 7.4	7.5 7.5 7.7 7.6 7.7
6 7 8 9 10	 	 	 	8.7 8.8 8.0 8.4 8.6	7.6 7.6 7.6 7.6 7.6	7.8 7.7 7.7 7.8 7.8	7.8 8.0 8.1 8.3 8.5	7.4 7.4 7.4 7.5 7.5	7.5 7.6 7.6 7.6 7.7	8.5 8.7 8.7 8.7 8.8	7.4 7.4 7.3 7.3 7.4	7.6 7.6 7.6 7.7 7.8
11 12 13 14 15	 	 	 	8.7 8.8 8.9 9.0 9.0	7.6 7.6 7.6 7.6 7.6	7.8 7.8 7.9 8.0 7.9	8.8 8.8 9.0 8.9 9.1	7.5 7.5 7.5 7.5 7.6	7.8 7.8 7.8 7.9 8.0	8.8 8.7 8.8 9.0 8.8	7.3 7.3 7.3 7.3 7.3 7.3	7.6 7.6 7.8 7.8 7.8 7.8
16 17 18 19 20	 	 	 	9.1 9.2 9.1 9.0 8.2	7.5 7.5 7.5 7.5 7.5	7.9 8.0 8.0 8.0 7.6	9.1 9.1 9.2 9.1 9.2	7.5 7.5 7.5 7.4 7.2	8.0 8.0 8.0 7.8 7.8	8.9 9.1 9.1 9.3 7.6	7.3 7.3 7.3 7.3 7.3 7.3	7.8 8.0 8.0 8.4 7.5
21 22 23 24 25	 	 	 	8.8 8.9 7.8 7.7 8.1	7.4 7.5 7.4 7.4 7.6	7.7 7.9 7.5 7.5 7.5 7.7	9.1 8.5 8.5 8.0 8.4	7.2 7.2 7.3 7.2 7.2 7.2	7.8 7.6 7.5 7.4 7.5	8.7 8.8 8.8 8.0 8.0	7.4 7.4 7.4 7.4 7.4 7.4	7.7 7.8 7.7 7.5 7.6
26 27 28 29 30 31	 	 	 	8.3 8.2 8.4 7.8 8.0 8.1	7.6 7.6 7.4 7.6 7.7 7.7	7.8 7.7 7.7 7.6 7.8 7.8	9.0 9.1 9.0 9.1 7.5	7.2 7.3 7.2 7.2 7.3	7.6 7.7 7.8 7.8 7.4	8.5 8.7 8.6 8.5 8.6 8.5	7.4 7.2 7.3 7.3 7.2	7.7 7.7 7.5 7.6 7.6
MAX MIN				9.2 7.7	7.7 7.4	8.0 7.5	9.2 7.5	7.6 7.2	8.0 7.4	9.3 7.6	7.3 7.4 7.2	7.6 8.4 7.5
DAY	MAX	MIN	MEDIAN	MAX	MIN	MEDIAN	MAX	MIN	MEDIAN	MAX	MIN	MEDIAN
DAY	MAX	MIN JUNE	MEDIAN	MAX	MIN JULY	MEDIAN	MAX	MIN AUGUST			MIN SEPTEMBI	
DAY 1 2 3 4 5	MAX 8.5 8.7 7.7 7.9 8.2		MEDIAN 7.6 7.7 7.5 7.6 7.6 7.6	MAX 8.3 7.8 8.4 8.6 8.2		MEDIAN 7.4 7.4 7.7 7.8 7.5	MAX 9.0 9.0 8.9 8.9 8.9					
1 2 3 4	8.5 8.7 7.7 7.9	JUNE 7.3 7.3 7.4 7.5	7.6 7.7 7.5 7.6	8.3 7.8 8.4 8.6	JULY 7.2 7.2 7.3 7.3	7.4 7.4 7.7 7.8	9.0 9.0 8.9 8.9	AUGUST 7.5 7.5 7.5 7.4	8.3 8.2 8.2 8.2	8.2 8.4 8.3 8.3	5 EPTEMB 7.6 7.6 7.6 7.6 7.6	ER 7.9 7.9 7.9 7.9 7.9
1 2 3 4 5 6 7 8 9	8.5 8.7 7.7 8.2 8.2 8.0 8.1 8.1	JUNE 7.3 7.4 7.5 7.4 7.4 7.4 7.4 7.5 7.5	7.6 7.7 7.6 7.6 7.6 7.6 7.6 7.7 7.7	8.3 7.8 8.4 8.6 8.2 8.2 8.2 8.2 8.2 7.7	JULY 7.2 7.3 7.3 7.3 7.3 7.3 7.3 7.4 7.4	7.4 7.7 7.8 7.5 7.6 7.6 7.5 7.5	9.0 9.0 8.9 8.9 8.9 8.8 8.7 8.7 8.1 8.5	AUGUST 7.5 7.5 7.4 7.4 7.5 7.5 7.5 7.4 7.4 7.4	8.3 8.2 8.2 8.2 8.2 8.3 8.1 7.6 7.8	8.2 8.4 8.3 8.3 8.4 8.3 8.4 8.4 8.5	SEPTEMB 7.6 7.6 7.6 7.6 7.6 7.6 7.6 7.6 7.6 7.6	FR 7.9 7.9 7.9 7.9 7.9 7.9 7.9 8.0 8.0 8.0
1 2 3 4 5 6 7 8 9 10 11 12 13 14	8.5 8.7 7.7 7.9 8.2 8.0 8.1 8.1 8.1 8.1 8.1 8.1 8.1 8.1 8.2	JUNE 7.3 7.4 7.4 7.4 7.4 7.4 7.5 7.5 7.5 7.5 7.5 7.5 7.5 7.4 7.4 7.4 7.5 7.5 7.5 7.5 7.4 7.4 7.4 7.4 7.4 7.4 7.4 7.4 7.4 7.4	7.6 7.7 7.5 7.6 7.6 7.6 7.7 7.7 7.7 7.7 7.7 7.7 7.7	8.3 7.8 8.4 8.6 8.2 8.2 7.7 7.9 8.3 8.5 8.5	JULY 7.2 7.3 7.3 7.3 7.3 7.3 7.3 7.3 7.3 7.4 7.4 7.4 7.4 7.4 7.4	7.4 7.7 7.8 7.5 7.6 7.6 7.5 7.6 7.5 7.6 7.7 7.7 7.9	9.0 9.0 8.9 8.9 8.9 8.9 8.9 8.7 8.1 8.5 8.6 8.9 8.9 9.0 9.0	AUGUST 7.5 7.5 7.5 7.4 7.4 7.5 7.5 7.4 7.4 7.5 7.5 7.6 7.6	8.3 8.2 8.2 8.2 8.3 8.1 7.6 7.8 7.9 8.0 8.2 8.3 8.3	8.2 8.4 8.3 8.3 8.4 8.3 8.4 8.5 8.7 8.7 8.7 8.7 8.5	SEPTEMB 7.6 7.6 7.6 7.6 7.6 7.6 7.6 7.6 7.6 7.7 7.7	FR 7.9 7.9 7.9 7.9 7.9 7.9 7.9 8.0 8.0 8.0 8.2 8.2 8.1 8.1 7.8
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	8.5 8.7 7.7 7.9 8.2 8.0 8.1 8.1 8.1 8.1 8.1 8.1 8.1 8.1 8.1 8.1	JUNE 7.3 7.4 7.5 7.4 7.4 7.5 7.5 7.5 7.5 7.5 7.5 7.5 7.5 7.5 7.5	7.6 7.7 7.5 7.6 7.6 7.6 7.6 7.7 7.7 7.7 7.7 7.7 7.7	8.3 7.8 8.4 8.6 8.2 8.2 7.7 7.9 8.3 8.5 8.5 8.5 8.5 8.5 8.5 8.5 7.6 7.9 7.8	JULY 7.2 7.3 7.3 7.3 7.3 7.3 7.3 7.3 7.4 7.4 7.4 7.4 7.4 7.4 7.4 7.4 7.5 7.3 7.3 7.5	7.4 7.7 7.8 7.5 7.6 7.6 7.5 7.6 7.5 7.6 7.5 7.7 7.9 7.7 7.9 7.7 7.4 7.6	9.0 9.0 8.9 8.9 8.9 8.8 8.7 8.1 8.5 8.6 8.9 9.0 9.0 8.8 8.2 8.2	AUGUST 7.5 7.5 7.4 7.4 7.4 7.5 7.5 7.5 7.4 7.4 7.5 7.5 7.6 7.6 7.6 7.6 7.6 7.6 7.6 7.6 7.6	8.3 8.2 8.2 8.2 8.3 8.1 7.6 7.8 7.9 8.0 8.2 8.3 8.3 8.3 8.3 8.2 7.8 8.0 8.1 7.8	8.2 8.4 8.3 8.3 8.4 8.3 8.4 8.5 8.7 8.7 8.7 8.7 8.7 8.5 8.0 8.2 8.5 8.1 8.2	SEPTEMB 7.6 7.6 7.6 7.6 7.6 7.6 7.6 7.6 7.6 7.7 7.7	ER 7.9 7.9 7.9 7.9 7.9 7.9 8.0 8.0 8.0 8.0 8.0 8.2 8.1 7.7 7.7 7.9 8.0 7.7 7.9
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	8.5 8.7 7.7 7.9 8.2 8.0 8.1 8.1 8.1 8.1 8.1 8.1 8.1 8.1 8.1 8.1	JUNE 7.3 7.4 7.5 7.4 7.4 7.5 7.5 7.5 7.5 7.5 7.5 7.5 7.5 7.5 7.5	7.6 7.7 7.5 7.6 7.6 7.6 7.7 7.7 7.7 7.7 7.7 7.7 7.7	8.3 7.8 8.4 8.6 8.2 8.2 7.7 7.9 8.3 8.5 8.5 8.5 8.5 8.5 8.5 8.5 8.5 8.5 8.5	JULY 7.2 7.3 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 7.7 7.8 7.5 7.6 7.6 7.5 7.6 7.5 7.6 7.7 7.9 7.7 7.9 7.7 7.4 7.6 7.7 7.8 8.0 8.3	9.0 9.0 8.9 8.9 8.9 8.7 8.7 8.7 8.5 8.6 8.9 9.0 9.0 8.8 8.2 8.7 8.8 8.2 8.5 8.6 8.7 8.7	AUGUST 7.5 7.5 7.5 7.4 7.4 7.4 7.5 7.5 7.5 7.6 7.6 7.6 7.6 7.6 7.6 7.6 7.6 7.6 7.6	8.3 8.2 8.2 8.2 8.3 8.1 7.6 7.8 7.9 8.0 8.3 8.3 8.2 7.8 8.0 8.1 8.0 8.1 8.3	8.2 8.4 8.3 8.3 8.4 8.3 8.4 8.5 8.7 8.7 8.7 8.7 8.7 8.7 8.5 8.0 8.2 8.5 8.1 8.2 8.3 8.4 8.5 8.5	SEPTEMB 7.6 7.6 7.6 7.6 7.6 7.6 7.6 7.6 7.6 7.7 7.7	ER 7.9 7.9 7.9 7.9 7.9 7.9 7.9 8.0 8.0 8.0 8.2 8.1 8.2 8.1 7.7 7.9 8.0 7.9 7.9 8.0 8.0 8.1 8.2 8.1 8.1 8.2 8.1 8.0 8.0 8.0 8.0 8.0 8.0 8.0 8.0 8.1 8.3

01480617 WEST BRANCH BRANDYWINE CREEK AT MODENA, 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 2 3 4 5	18.9 18.3 18.7 17.9 17.2	16.4 17.4 16.9 15.6 15.4	17.8 17.9 17.8 16.8 16.3	14.3 14.4 14.1 12.3 10.7	12.5 12.4 12.3 10.4 9.6	13.5 13.5 13.6 10.8 10.2	 	 	 	 	 	
6 7 8 9 10	15.7 16.5 17.4 17.5 17.8	13.5 13.5 14.7 15.8 16.2	14.7 15.0 16.0 16.6 16.9	10.5 11.6 11.3 9.2 7.9	8.3 8.8 9.2 7.6 5.9	9.6 10.3 10.1 8.4 7.2	 	 	 	 	 	
11 12 13 14 15	16.3 15.3 14.6 14.8 15.9	14.8 13.2 13.2 13.8 14.6	15.5 14.3 14.1 14.4 15.1	9.2 9.1 8.6 8.0 8.4	6.8 7.8 7.4 6.2 6.1	8.1 8.7 8.0 7.2 7.5	 	 	 	 	 	
16 17 18 19 20	15.0 14.1 13.4 	13.6 12.3 	14.3 13.2 	9.2 9.9 11.2 11.6 11.9	7.1 7.4 9.7 10.2 11.1	8.3 8.7 10.4 11.0 11.5	 	 	 	 	 	
21 22 23 24 25	13.1 12.5 11.5 13.0	11.9 10.6 10.2 11.3	 12.4 11.6 11.0 12.1	12.2 11.5 11.3 12.8 13.8	11.2 10.0 10.6 11.2 10.0	11.6 10.8 11.0 11.8 12.7	 	 	 	 	 	
26 27 28 29 30 31	13.0 13.4 13.3 12.7 14.4 15.7	11.9 11.2 11.6 11.3 12.7 13.8	12.5 12.3 12.5 12.0 13.6 14.6	10.0 9.4 	7.9 7.3 	8.6 8.3 	 	 	 	 	 	
MONTH	18.9	10.2	14.5	14.4	5.9	10.1						
DAY	MAX	MIN FEBRUARY	MEAN	MAX	MIN MARCH	MEAN	MAX	MIN APRIL	MEAN	MAX	MIN MAY	MEAN
1 2 3 4 5	 	 	 	5.1 4.7 4.5 4.7 5.6	1.9 2.8 1.6 1.4 2.0	3.4 3.9 3.1 3.2 3.9	13.3 11.9 10.4 10.2 12.7	9.9 9.4 7.7 7.1 7.8	11.6 10.3 8.8 8.4 10.3	16.1 14.1 13.3 13.6 14.4	12.9 11.1 9.7 11.0 10.0	14.2 12.4 11.7 12.2 12.3
6 7 8 9 10	 	 	 	6.0 8.9 7.5 4.0 4.1	2.6 4.2 2.8 1.0 1.2	4.4 6.5 5.8 2.6 2.9	15.0 15.4 15.6 15.5 15.7	9.4 11.7 13.2 10.9 10.4	12.0 13.6 14.2 13.1 13.0	13.1 15.6 16.9 18.5 18.8	11.2 10.3 12.2 13.2 14.2	11.8 12.9 14.6 15.9 16.5
11 12 13 14 15	 	 	 	6.1 6.8 7.2 7.6 7.3	2.9 4.1 4.1 4.6 3.6	4.5 5.6 5.8 6.1 5.6	15.9 14.4 14.6 15.0 14.2	11.8 10.3 10.0 10.0 10.4	13.7 12.5 12.3 12.5 12.4	19.6 18.7 17.5 19.4 19.0	14.8 16.4 13.3 14.2 17.0	17.1 17.4 15.5 16.7 18.0
16 17 18 19 20	 	 	 	7.3 7.0 8.4 9.0 8.2	4.1 4.8 4.3 5.2 7.2	5.9 5.9 6.4 7.2 7.6	14.1 15.2 16.7 18.0 19.2	9.3 9.5 11.2 12.5 14.6	11.8 12.5 14.0 15.3 17.0	19.0 17.6 17.3 18.1 16.4	16.0 14.1 13.4 13.5 12.8	17.5 15.8 15.3 15.8 14.3
21 22 23 24 25	 	 	 	8.0 9.8 9.0 6.8 8.0	6.7 5.3 5.7 4.8 6.2	7.4 7.7 7.1 5.9 7.0	18.1 15.0 15.0 14.2 11.5	15.0 12.2 11.7 11.2 9.6	16.5 12.9 13.0 12.5 10.6	16.8 16.3 15.8 15.0 13.7	11.6 14.0 13.5 13.7 12.7	14.2 15.1 14.8 14.3 13.1
26 27 28 29 30 31	 	 	 	8.3 8.3 8.0 10.8 12.1 11.2	6.1 7.2 7.0 7.4 8.0 8.7	7.4 7.8 7.3 8.9 10.1 10.3	15.1 15.9 15.3 14.3 13.7	9.1 12.8 11.9 11.6 12.6	12.0 14.2 13.7 13.1 13.1	15.7 18.7 19.1 19.1 18.7 19.6	12.5 13.1 15.0 14.6 15.0 14.7	13.8 15.8 16.9 16.8 16.8 17.2
MONTH				11.2	1.0	6.0	19.2	7.1	12.7	19.6	9.7	17.2

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

					,		<i>,</i>					
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	JUNE		JULY		AUGUST			SEPTEMBER				
1 2 3 4 5	20.4 19.9 18.0 17.9 22.0	15.8 16.2 16.2 15.7 16.2	18.0 17.9 16.7 16.8 18.9	25.0 25.2 24.2 24.9 23.5	22.2 21.5 20.3 20.1 21.5	23.4 23.1 22.3 22.4 22.6	25.5 26.6 27.2 27.5 26.9	22.1 22.0 23.0 23.4 23.6	23.5 24.2 25.0 25.4 25.3	24.5 24.2 23.1 22.2 22.5	21.8 20.6 20.2 19.2 19.1	23.2 22.5 21.9 21.0 20.9
6 7 8 9 10	22.9 23.7 24.5 23.9 24.5	18.6 19.0 19.9 20.5 21.1	20.6 21.2 22.1 22.2 22.6	24.2 22.9 21.5 23.4 24.4	21.3 21.5 19.0 19.0 19.6	22.6 22.1 20.0 20.9 21.9	26.0 24.9 23.8 23.6 25.3	23.5 22.5 22.0 21.5 21.4	24.8 23.7 22.9 22.4 23.1	22.4 22.2 21.9 21.5 21.9	19.0 18.7 18.1 18.7 18.5	20.9 20.6 20.2 20.2 20.3
11 12 13 14 15	25.1 25.1 25.0 25.7 25.3	21.5 21.5 21.6 21.9 22.3	23.2 23.3 23.2 23.8 23.7	24.9 25.5 24.4 24.3 25.4	20.1 21.1 22.0 22.2 22.4	22.5 23.2 23.1 23.2 23.2 23.2	26.1 26.8 27.7 28.1 26.6	21.8 22.8 24.0 24.5 24.4	23.9 24.7 25.8 26.2 25.4	21.5 22.2 22.9 24.2 23.8	18.1 18.4 19.3 20.1 21.3	20.1 20.5 21.2 21.5 22.4
16 17 18 19 20	23.3 21.6 21.7 19.6 20.8	20.8 18.6 17.4 17.8 17.1	22.2 20.1 19.4 18.6 18.8	24.2 25.3 25.8 25.3 25.9	22.1 22.2 22.8 22.3 22.2	22.7 23.0 24.1 23.7 23.9	24.5 24.8 24.7 23.4 24.0	22.1 20.9 21.1 21.9 21.2	23.0 22.8 22.9 22.4 22.4	24.6 24.3 22.8 23.1 22.4	21.9 22.0 20.1 20.0 20.4	23.1 23.0 21.5 21.5 21.4
21 22 23 24 25	22.2 23.1 23.4 24.2 25.0	17.3 18.9 18.6 19.3 20.1	19.7 20.8 21.0 21.5 22.4	25.6 25.8 25.8 24.5 25.0	21.6 22.2 22.4 20.6 21.3	23.5 23.9 23.9 22.6 23.0	26.2 24.9 23.5 23.0 23.0	22.4 21.6 20.5 19.9 19.0	24.1 23.4 22.1 21.5 21.1	22.4 21.9 22.5 21.8 20.7	19.7 18.7 19.7 19.8 19.1	21.1 20.4 21.2 20.7 20.0
26 27 28 29 30 31	25.7 23.8 26.0 24.6 25.1	21.0 22.1 21.4 22.5 22.2	23.3 22.7 23.4 23.5 23.6	26.9 27.8 26.0 24.8 25.1 24.7	22.3 23.5 22.4 21.0 22.0 21.8	24.4 25.4 24.0 22.8 23.4 23.2	22.6 22.1 22.5 23.7 24.2 24.9	19.6 20.2 20.9 20.6 22.1 23.2	21.2 21.2 21.6 22.0 23.1 23.9	21.2 21.1 19.7 19.4 17.7	19.5 19.5 16.9 17.7 15.4	20.3 20.4 18.6 18.5 16.8
MONTH	26.0	15.7	21.2	27.8	19.0	23.0	28.1	19.0	23.4	24.6	15.4	20.9

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

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

	UATGEN, DISSOLVED (MGIL), WATER TEAR OCTOBER 2004 TO SETTEMBER 2005											
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	OCTOBER		N	NOVEMBER			DECEMBER			JANUARY		
1 2 3 4 5	9.8 9.7 9.9 10.4 10.6	9.0 9.1 9.1 9.3 9.4	9.4 9.3 9.4 9.8 10.0	10.5 10.7 11.1 10.9 10.6	8.5 8.7 8.6 9.5 10.1	9.3 9.5 9.7 10.3 10.4	 	 	 	 	 	
6 7 8 9 10	11.4 11.4 11.4 11.3 11.0	10.0 10.0 9.6 9.4 9.4	10.7 10.6 10.4 10.3 10.1	11.4 11.5 11.7 12.4 13.1	10.2 9.8 9.9 10.8 11.2	10.8 10.6 10.8 11.6 12.2	 	 	 	 	 	
11 12 13 14 15	11.8 11.3 11.3 10.5 10.6	9.6 10.0 10.2 10.1 9.7	10.5 10.6 10.7 10.3 10.2	12.8 11.4 12.7 13.4 13.4	10.9 10.9 11.3 12.6 12.4	11.9 11.1 12.2 12.9 12.8	 	 	 	 	 	
16 17 18 19 20	10.7 11.0 	9.8 10.1 	10.3 10.5 	13.0 12.9 12.0 12.0 11.4	12.2 11.9 10.0 9.8 9.5	12.6 12.4 11.4 10.6 10.3	 	 	 	 	 	
21 22 23 24 25	10.4 10.7 10.7 10.6	9.7 9.7 9.7 9.5	9.9 10.1 10.2 10	11.6 12.2 11.8 10.6 10.2	9.5 9.8 9.9 9.3 9.2	10.4 10.6 10.5 10 9.6	 	 	 	 	 	
26 27 28 29 30 31	10.5 10.9 10.8 10.7 10.0 10.0	9.4 9.4 9.4 9.4 8.8 8.5	9.8 10.0 9.9 10 9.3 9.0	12.5 13.0 	10.2 10.3 	11.3 11.6 	 	 	 	 	 	
MONTH	11.8	8.5	10.0	13.4	8.5	11.0						

01480617 WEST BRANCH BRANDYWINE CREEK AT MODENA, 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 2				14.6 14.4	12.3 12.2	13.5 13.2				10.9 13.3	7.9 9.5	9.7 11.4
3				14.7	12.3	13.4				13.6	10.7	12.1
4 5				14.5 14.2	11.9 11.3	13.3 12.8				13.8 13.9	10.7 10.7	12.1 12.3
6				13.9	10.7	12.4				13.7	10.7	12.2
7 8				12.9 11.7	9.8 10.1	11.4 10.8				13.6 12.9	9.9 9.6	$11.9 \\ 11.1$
9 10				13.3 13.5	11.5 11.2	12.4 12.4				12.6 12.4	9.1 9.1	10.8 10.7
11				13.1	10.3	11.8				12.5	8.6	10.5
12 13				12.8 13.1	10.3 10.2	11.4 11.6				12.1 12.7	8.6 9.0	10.2 10.9
14				13.4	10.2	11.7				12.7	8.1	10.5
15				13.7	10.6	12.0				12.4	8.1	10.1
16 17				14.1 13.9	10.5 10.5	12.0 12.0				12.2 12.8	8.3 8.6	10.2 10.7
18				14.0	10.0	12.0				13.2	9.1	10.9
19 20				13.9 12.2	9.8 9.8	11.7 10.8	13.0	 7.7	10.1	13.0 9.9	8.6 7.9	10.7 8.9
21				13.1	10.1	11.4	13.2	7.8	10.3	10.6	8.1	9.5
22 23				13.6 11.2	9.5 9.5	11.6 10.5	12.5 12.2	8.8 7.9	10.6 10.4	11.4 11.8	8.3 8.5	9.7 9.9
24 25				11.2 11.7	7.2 10.4	9.7 11.0	10.3 12.6	7.9 9.2	9.3 11.0	10.7 11.2	8.8 9.5	9.7 10.4
26				12.9	10.9	11.8	13.8	9.6	11.5	11.7	9.4	10.4
27 28				13.6	11.3	12.3	13.3 13.6	9.6 9.6	$11.1 \\ 11.4$	11.7 11.6	8.6 8.1	10.2 9.6
29							14.1	10.0	11.8	11.1	8.5	9.6
30 31							11.0	7.6	10	11.4 11.2	8.4 8.5	9.7 9.8
MONTH				14.7	7.2	11.9	14.1	7.6	10.7	13.9	7.9	10.5
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
DAY	MAX	MIN JUNE	MEAN	MAX	MIN JULY	MEAN		MIN AUGUST	MEAN		MIN SEPTEMBE	
1	11.2	JUNE 8.5	9.6	9.8	JULY 6.1	7.3	10.7	AUGUST 6.6	8.0	8.8	SEPTEMBE 6.1	R 7.2
1 2 3	11.2 11.2 10.3	JUNE 8.5 8.3 8.8	9.6 9.7 9.5	9.8 8.8 10.2	JULY 6.1 6.7 6.8	7.3 7.5 8.1	10.7 11.0 10.8	AUGUST 6.6 6.3 6.5	8.0 8.1 8.2	8.8 9.2 9.2	6.1 6.6 6.6	FR 7.2 7.6 7.6
1 2	11.2 11.2	JUNE 8.5 8.3	9.6 9.7	9.8 8.8	JULY 6.1 6.7	7.3 7.5	10.7 11.0	AUGUST 6.6 6.3	8.0 8.1	8.8 9.2	6.1 6.6	R 7.2 7.6
1 2 3 4	11.2 11.2 10.3 10.5	JUNE 8.5 8.3 8.8 9.1	9.6 9.7 9.5 9.8	9.8 8.8 10.2 10.9	JULY 6.1 6.7 6.8 6.8	7.3 7.5 8.1 8.4	10.7 11.0 10.8 10.8	AUGUST 6.6 6.3 6.5 6.8	8.0 8.1 8.2 8.4	8.8 9.2 9.2 9.5	6.1 6.6 6.6 6.6 6.9	7.2 7.6 7.6 7.9
1 2 3 4 5 6 7	11.2 11.2 10.3 10.5 10.4 10.0 9.0	JUNE 8.5 8.3 8.8 9.1 8.2 6.4 7.2	9.6 9.7 9.5 9.8 9.4 8.7 8.4	9.8 8.8 10.2 10.9 10.5 9.4 9.9	JULY 6.1 6.7 6.8 6.8 6.3 6.6 6.7	7.3 7.5 8.1 8.4 7.5 7.9 7.9	10.7 11.0 10.8 10.8 10.8 10.6 10.5	AUGUST 6.6 6.3 6.5 6.8 6.8 6.8 6.7 6.9	8.0 8.1 8.2 8.4 8.5 8.2 8.3	8.8 9.2 9.2 9.5 9.8 10.0 10.1	6.1 6.6 6.6 6.9 6.7 6.9 7.1	R 7.2 7.6 7.6 7.9 8.1 8.1 8.2
1 2 3 4 5 6 7 8 9	11.2 11.2 10.3 10.5 10.4 10.0 9.0 8.7 8.9	JUNE 8.5 8.3 8.8 9.1 8.2 6.4 7.2 7.3 7.2	9.6 9.7 9.5 9.8 9.4 8.7 8.4 8.0 7.9	9.8 8.8 10.2 10.9 10.5 9.4 9.9 8.5 8.1	JULY 6.1 6.8 6.8 6.3 6.6 6.7 6.5 6.6	7.3 7.5 8.1 8.4 7.5 7.9 7.9 7.9 7.7 7.6	10.7 11.0 10.8 10.8 10.6 10.5 9.4 9.2	AUGUST 6.6 6.3 6.5 6.8 6.8 6.7 6.9 6.9 7.0	8.0 8.1 8.2 8.4 8.5 8.2 8.3 7.6 7.9	8.8 9.2 9.5 9.8 10.0 10.1 10.2 10.4	SEPTEMBE 6.1 6.6 6.9 6.7 6.9 7.1 7.2 7.0	FR 7.2 7.6 7.6 7.9 8.1 8.1 8.1 8.2 8.3 8.3
1 2 3 4 5 6 7 8 9 10	11.2 10.3 10.5 10.4 10.0 9.0 8.7 8.9 8.6	JUNE 8.5 8.3 8.8 9.1 8.2 6.4 7.2 7.3 7.2 7.1	9.6 9.7 9.5 9.8 9.4 8.7 8.4 8.0 7.9 7.8	9.8 8.8 10.2 10.9 10.5 9.4 9.9 8.5 8.1 9.1	JULY 6.1 6.7 6.8 6.3 6.6 6.7 6.5 6.6 6.8	7.3 7.5 8.1 8.4 7.5 7.9 7.9 7.7 7.6 8.0	10.7 11.0 10.8 10.8 10.6 10.5 9.4 9.2 9.7	AUGUST 6.6 6.3 6.5 6.8 6.8 6.7 6.9 6.9 7.0 7.0	8.0 8.1 8.2 8.4 8.5 8.3 7.6 7.9 8.1	8.8 9.2 9.5 9.8 10.0 10.1 10.2 10.4	SEPTEMBE 6.1 6.6 6.9 6.7 6.9 7.1 7.2 7.0 7.4	<pre>7.2 7.6 7.6 7.9 8.1 8.1 8.2 8.3 8.3 8.5</pre>
1 2 3 4 5 6 7 8 9	11.2 11.2 10.3 10.5 10.4 10.0 9.0 8.7 8.9 8.6 8.7	JUNE 8.5 8.3 8.8 9.1 8.2 6.4 7.2 7.3 7.2 7.1 7.0	9.6 9.7 9.5 9.8 9.4 8.7 8.4 8.0 7.9	9.8 8.8 10.2 10.9 10.5 9.4 9.9 8.5 8.1 9.1 9.6	JULY 6.1 6.8 6.8 6.3 6.6 6.7 6.5 6.6	7.3 7.5 8.1 8.4 7.5 7.9 7.9 7.9 7.7 7.6 8.0 8.2	10.7 11.0 10.8 10.8 10.6 10.5 9.4 9.2 9.7 10.1	AUGUST 6.6 6.3 6.5 6.8 6.8 6.7 6.9 7.0 7.0 7.0 6.9	8.0 8.1 8.2 8.4 8.5 8.2 8.3 7.6 7.9	8.8 9.2 9.2 9.5 9.8 10.0 10.1 10.2 10.4 10.4 10.6	6.1 6.6 6.9 6.7 6.9 7.1 7.2 7.0 7.4	FR 7.2 7.6 7.6 7.9 8.1 8.1 8.1 8.2 8.3 8.3
1 2 3 4 5 6 7 8 9 10 11 12 13	11.2 10.3 10.5 10.4 10.0 9.0 8.7 8.9 8.6 8.7 8.8 8.6	JUNE 8.5 8.3 9.1 8.2 6.4 7.2 7.3 7.2 7.1 7.0 6.7 6.6	9.6 9.7 9.5 9.4 8.7 8.4 8.0 7.9 7.8 7.7 7.6 7.4	9.8 8.8 10.2 10.9 10.5 9.4 9.9 8.5 8.1 9.1 9.1 9.6 10.4	JULY 6.1 6.7 6.8 6.3 6.6 6.7 6.5 6.6 6.8 6.8 6.8 6.8 6.8	7.3 7.5 8.1 7.5 7.9 7.9 7.7 7.6 8.0 8.2 8.4 8.4	10.7 11.0 10.8 10.8 10.6 10.5 9.4 9.2 9.7 10.1 9.5 9.3	AUGUST 6.6 6.3 6.8 6.8 6.8 6.9 6.9 7.0 7.0 7.0 6.9 6.4 6.0	8.0 8.1 8.2 8.4 8.5 8.3 7.6 7.9 8.1 8.0 7.7 7.3	8.8 9.2 9.5 9.8 10.0 10.1 10.2 10.4 10.6 10.4 10.3	SEPTEMBE 6.1 6.6 6.6 6.7 6.9 7.1 7.2 7.0 7.4 7.4 7.4 7.1 6.8	R 7.2 7.6 7.9 8.1 8.1 8.2 8.3 8.3 8.5 8.6 8.3 8.2
1 2 3 4 5 6 7 8 9 10 11 12	11.2 11.2 10.3 10.5 10.4 10.0 9.0 8.7 8.9 8.6 8.7 8.8	JUNE 8.5 8.3 9.1 8.2 6.4 7.2 7.3 7.2 7.1 7.0 6.7	9.6 9.7 9.5 9.8 9.4 8.7 8.4 8.0 7.9 7.8 7.7	9.8 8.8 10.2 10.9 10.5 9.4 9.9 8.5 8.1 9.1 9.1 9.6 10.4	JULY 6.1 6.7 6.8 6.8 6.3 6.5 6.7 6.5 6.6 6.8 6.8 6.8	7.3 7.5 8.4 7.5 7.9 7.9 7.7 7.6 8.0 8.2 8.4	10.7 11.0 10.8 10.8 10.8 10.6 10.5 9.4 9.2 9.7 10.1 9.5	AUGUST 6.6 6.3 6.5 6.8 6.8 6.9 6.9 7.0 7.0 7.0 6.9 6.4	8.0 8.1 8.2 8.4 8.5 8.2 8.3 7.6 7.9 8.1 8.0 7.7	8.8 9.2 9.2 9.5 9.8 10.0 10.1 10.2 10.4 10.4 10.4 10.6 10.4	SEPTEMBE 6.1 6.6 6.9 6.7 6.9 7.1 7.2 7.0 7.4 7.4 7.1	T. 2 7.6 7.6 7.9 8.1 8.1 8.2 8.3 8.5 8.5 8.6 8.3
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	11.2 11.2 10.3 10.5 10.4 10.0 9.0 8.7 8.9 8.6 8.7 8.8 8.6 8.4 8.4 8.4 8.5	JUNE 8.5 8.3 9.1 8.2 6.4 7.2 7.1 7.0 6.7 6.6 6.6 6.6 6.7	9.6 9.7 9.8 9.4 8.7 8.4 8.7 8.4 8.0 7.9 7.8 7.7 7.6 7.4 7.4 7.3 7.5	9.8 8.8 10.2 10.9 10.5 9.4 9.9 8.5 8.1 9.1 9.6 10.4 10.4 10.5 11.0 8.8	JULY 6.1 6.7 6.8 6.3 6.6 6.7 6.5 6.6 6.8 6.8 6.8 6.8 7.3 6.5 7.4	7.3 7.5 8.1 8.4 7.5 7.9 7.9 7.9 7.6 8.0 8.2 8.4 8.4 8.4 8.5 8.1	10.7 11.0 10.8 10.8 10.6 10.5 9.4 9.2 9.7 10.1 9.5 9.3 9.2 8.8 7.9	AUGUST 6.6 6.3 6.5 6.8 6.7 6.9 7.0 7.0 7.0 6.9 6.4 6.0 5.8 5.7 6.1	8.0 8.1 8.2 8.4 8.5 8.2 8.3 7.6 7.9 8.1 8.0 7.7 7.3 7.2 7.0 6.8	8.8 9.2 9.2 9.5 9.8 10.0 10.1 10.2 10.4 10.4 10.4 10.4 10.4 10.3 9.6 8.4 8.6	SEPTEMBE 6.1 6.6 6.6 6.9 6.7 7.1 7.2 7.0 7.4 7.4 7.4 7.4 7.4 7.2 6.8 7.2 6.9	FR 7.2 7.6 7.9 8.1 8.1 8.2 8.3 8.3 8.5 8.6 8.3 8.5 8.6 8.3 8.7 7.5 7.6
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	11.2 11.2 10.3 10.5 10.4 10.0 8.7 8.6 8.6 8.7 8.8 8.6 8.4 8.4	JUNE 8.5 8.3 9.1 8.2 6.4 7.2 7.3 7.2 7.1 7.0 6.7 6.6 6.6 6.6	9.6 9.7 9.5 9.4 8.7 8.4 8.0 7.9 7.8 7.7 7.6 7.4 7.4 7.3	9.8 8.8 10.2 10.9 10.5 9.4 9.9 8.5 8.1 9.1 9.1 9.6 10.4 10.4 10.5 11.0	JULY 6.1 6.7 6.8 6.3 6.6 6.7 6.5 6.6 6.8 6.8 6.8 6.8 6.8 7.3 6.5	7.3 7.5 8.1 8.4 7.5 7.9 7.9 7.7 7.6 8.0 8.2 8.4 8.4 8.4 8.4 8.5	10.7 11.0 10.8 10.8 10.6 10.5 9.4 9.2 9.7 10.1 9.5 9.3 9.2 8.8	AUGUST 6.6 6.3 6.8 6.8 6.9 6.9 7.0 7.0 7.0 6.9 6.9 6.9 6.9 7.0 7.0 7.0 5.8 5.7	8.0 8.1 8.2 8.4 8.5 8.3 7.6 7.9 8.1 8.1 8.0 7.7 7.3 7.2 7.0	8.8 9.2 9.5 9.8 10.0 10.1 10.2 10.4 10.4 10.4 10.4 10.3 9.6 8.4	SEPTEMBE 6.1 6.6 6.9 6.7 7.1 7.2 7.0 7.4 7.4 7.4 7.4 7.4 7.2 7.2 7.2	7.2 7.6 7.9 8.1 8.2 8.3 8.5 8.6 8.2 7.7 7.5
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	11.2 11.2 10.3 10.5 10.4 10.0 9.0 8.7 8.9 8.6 8.7 8.8 8.4 8.4 8.4 8.4 8.4 8.5 9.1 9.2 9.4	JUNE 8.5 8.3 9.1 8.2 6.4 7.2 7.1 7.0 6.7 6.6 6.6 6.6 6.6 6.7 7.2 7.5	9.6 9.7 9.8 9.4 8.7 8.4 8.7 8.4 8.7 7.9 7.8 7.9 7.8 7.7 6 7.4 7.3 7.5 8.1 8.4	9.8 8.8 10.2 10.9 10.5 9.4 9.9 8.5 8.1 9.1 9.6 10.4 10.5 11.0 8.8 8.5 7.2 9.0	JULY 6.1 6.7 6.8 6.3 6.6 6.7 6.6 6.8 6.8 6.8 6.8 6.8 7.3 6.5 7.4 5.3 4.1 5.8	7.3 7.5 8.1 8.4 7.5 7.9 7.9 7.6 8.0 8.2 8.4 8.7 8.5 8.1 6.9 5.9 7.8	10.7 11.0 10.8 10.8 10.6 10.5 9.4 9.2 9.7 10.1 9.5 9.3 9.2 8.8 7.9 9.0 9.3 8.4	AUGUST 6.6 6.3 6.5 6.8 6.7 6.9 7.0 7.0 7.0 6.9 6.4 6.0 5.8 5.7 6.1 6.5 6.5 6.5 6.5 6.4 5.5 6.4 5.5 6.4 5.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5	8.0 8.1 8.2 8.4 8.5 8.2 8.3 7.6 7.9 8.1 8.0 7.7 7.2 7.0 6.8 7.5 7.6 7.3	$\begin{array}{c} 8.8\\ 9.2\\ 9.2\\ 9.5\\ 9.8\\ 10.0\\ 10.1\\ 10.2\\ 10.4\\ 10.4\\ 10.4\\ 10.6\\ 8.4\\ 8.6\\ 8.4\\ 8.6\\ 8.4\\ 8.0\\ 9.0\\ \end{array}$	SEPTEMBE 6.1 6.6 6.6 6.9 6.7 7.1 7.2 7.0 7.4 7.4 7.4 7.4 7.4 7.4 7.2 6.8 7.2 6.9 6.9 7.3 7.1	7.2 7.6 7.9 8.1 8.2 8.3 8.5 8.6 8.77 7.5 7.6 7.79
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	11.2 10.3 10.5 10.4 10.0 9.0 8.7 8.8 8.6 8.4 8.4 8.4 8.5 9.1 9.2 9.4 9.7	JUNE 8.5 8.3 9.1 8.2 6.4 7.2 7.1 7.0 6.7 6.6 6.6 6.6 6.6 7.2 7.6 7.5 7.6	9.6 9.7 9.8 9.4 8.7 8.4 8.0 7.8 7.8 7.7 7.6 7.4 7.3 7.5 8.3 8.4 8.5	9.8 8.8 10.2 10.9 10.5 9.4 9.9 8.5 8.1 9.1 9.1 9.6 10.4 10.4 10.4 10.5 11.0 8.8 8.5 7.2 9.0 9.7	JULY 6.1 6.8 6.3 6.6 6.7 6.5 6.8 6.8 6.8 6.8 6.8 6.8 6.8 6.8 6.8 6.8	7.3 7.5 8.4 7.5 7.9 7.7 7.6 8.0 8.2 8.4 8.4 8.4 8.4 8.5 8.1 6.9 5.9 7.8 8.9	10.7 11.0 10.8 10.8 10.6 10.5 9.4 9.2 9.7 10.1 9.5 9.3 9.2 8.8 7.9 9.0 9.0 9.3 8.4 9.1	AUGUST 6.6 6.3 6.5 6.8 6.9 7.0 7.0 6.9 6.4 6.0 5.8 5.7 6.1 6.5 6.5 6.5 6.7	8.0 8.1 8.2 8.4 8.5 8.3 7.6 7.9 8.1 8.0 7.7 7.3 7.2 7.0 6.8 7.6 7.6 7.6 7.6 7.7	8.8 9.2 9.5 9.8 10.0 10.1 10.2 10.4 10.4 10.4 10.4 10.4 10.4 10.4 10.4	SEPTEMBE 6.1 6.6 6.6 9 7.1 7.2 7.0 7.4 7.4 7.4 7.4 7.4 7.4 7.2 6.9 6.9 7.1 7.2 7.0 7.1 7.2 7.0 7.1 7.2 7.0 7.1 7.2 7.0 7.1 7.2 7.2 7.1 7.2 7.2 7.1 7.4 7.1 7.2 7.1 7.4 7.1 7.2 7.1 7.2 7.1 7.2 7.1 7.2 7.1 7.2 7.1 7.2 7.1 7.4 7.1 7.2 7.2 7.1 7.4 7.1 7.2 7.1 7.2 7.2 7.1 7.4 7.1 7.2 7.1 7.2 7.1 7.4 7.1 7.2 7.1 7.2 7.2 7.1 7.4 7.1 7.2 7.1 7.2 7.1 7.2 7.2 7.1 7.4 7.1 7.2 7.2 7.1 7.2 7.2 7.2 7.1 7.2 7.2 7.1 7.2 7.2 7.2 7.2 7.2 7.2 7.2 7.2	7.2 7.6 7.9 8.1 8.2 8.3 8.5 8.6 8.3 8.7 7.5 7.6 7.7 7.9 8.0
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	11.2 11.2 10.3 10.5 10.4 10.0 9.0 8.7 8.9 8.6 8.7 8.8 8.6 8.4 8.4 8.4 8.4 8.4 8.4 9.1 9.2 9.2 9.4 9.7 9.6 9.8	JUNE 8.5 8.3 9.1 8.2 6.4 7.2 7.1 7.0 6.7 6.6 6.6 6.6 6.6 6.6 7.2 7.6 7.5 7.6 7.4	9.6 9.7 9.8 9.4 8.7 8.4 8.0 7.9 7.8 7.7 7.6 7.4 7.3 7.5 8.1 8.3 8.5 8.3 8.4	9.8 8.8 10.2 10.9 10.5 9.4 9.9 8.5 8.1 9.1 9.6 10.4 10.4 10.5 11.0 8.8 8.5 7.2 9.0 9.7 10.4 11.2	JULY 6.1 6.7 6.8 6.3 6.6 6.7 6.6 6.8 6.8 6.8 6.8 6.8 7.3 6.5 7.4 5.3 4.1 5.8 8.3 8.3	7.3 7.5 8.4 7.5 7.9 7.9 7.7 7.6 8.0 8.2 8.4 8.5 8.1 6.9 5.9 7.8 8.9 9.2 9.4	10.7 11.0 10.8 10.8 10.6 10.5 9.4 9.7 10.1 9.5 9.3 9.2 8.8 7.9 9.0 9.3 8.4 9.1 9.0 9.4	AUGUST 6.6 6.3 6.5 6.8 6.7 6.9 7.0 7.0 7.0 6.9 6.4 6.0 5.7 6.4 5.7 6.5 6.5 6.7 6.5 6.5 6.5 6.3 7.0 7.0 7.0 7.0 7.0 6.9 6.4 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5	8.0 8.1 8.2 8.4 8.5 8.3 7.6 7.9 8.1 8.0 7.7 7.3 7.2 7.0 6.8 7.5 7.6 7.7 7.5 7.6	8.8 9.2 9.2 9.5 9.8 10.0 10.1 10.2 10.4 10.4 10.4 10.4 10.3 9.6 8.4 8.4 8.4 8.4 8.4 9.0 9.1 9.9	SEPTEMBE 6.1 6.6 6.6 6.9 7.1 7.2 7.0 7.4 7.4 7.4 7.4 7.4 7.4 7.4 7.4	7.2 7.6 7.9 8.1 8.2 8.3 8.5 8.6 8.3 8.7 7.5 7.6 7.79 8.0 8.3 8.4
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