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CHRISTINA RIVER BASIN

01480870 EAST BRANCH BRANDYWINE CREEK BELOW DOWNINGTOWN, PA

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

DRAINAGE AREA.--89.9 mi².

WATER-DISCHARGE RECORDS

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

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

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

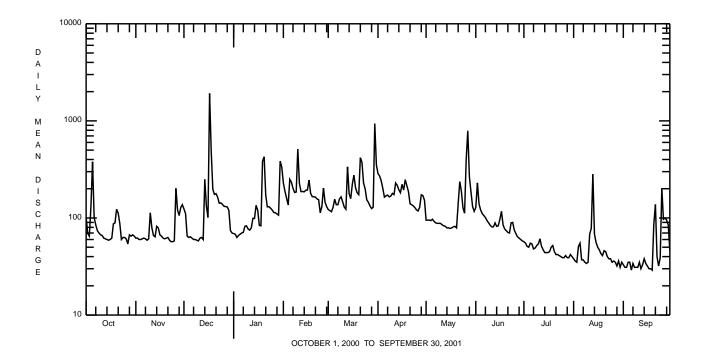
REMARKS.--No estimated daily discharges. Records good. Flow regulated since November 1973 by Marsh Creek Reservoir (station 01480684) about 7.5 mi upstream. Satellite and landline telemetry at station.

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

			DISCHAR	GE, CUBIC I	FEET PER SE		EAN VALUE		JU 10 SEP 11	EMBER 2001		
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2 3 4 5	102 69 65 132 379	62 62 60 60	124 111 65 63 64	69 68 63 66	229 188 160 136 250	122 119 116 129 156	286 271 242 202 164	95 95 95 94 97	128 230 140 121 111	57 55 51 50 55	38 36 35 51 55	33 31 31 35 35
6 7 8 9 10	101 85 74 70 67	62 61 59 61 113	62 60 60 59 58	70 71 82 83 77	234 202 183 185 512	137 137 157 165 146	169 172 165 168 179	92 89 88 88	106 101 94 89 84	54 48 49 52 54	37 37 35 34 35	29 34 31 31 31
11 12 13 14 15	66 62 61 60 59	79 66 64 82 79	62 63 60 250 132	75 79 99 99 135	226 187 187 186 193	129 123 336 178 158	174 229 217 195 182	85 83 82 79 79	81 81 89 82 83	61 51 47 44 44	68 78 282 68 56	35 30 33 38 34
16 17 18 19 20	60 62 87 89 123	67 65 62 61 62	101 1920 487 198 175	120 84 83 383 427	194 246 179 166 165	223 276 205 182 174	222 194 248 215 187	78 79 81 82 79	97 117 85 77 74	44 45 50 52 45	50 47 43 41 46	32 30 30 29 86
21 22 23 24 25	112 88 60 63 63	63 59 57 57 58	178 164 142 143 138	172 130 131 126 121	164 157 154 113	418 375 229 199 154	140 137 133 128 121	140 237 188 127 112	71 70 89 90 75	42 42 41 40 39	45 40 38 38 35	138 40 32 39 202
26 27 28 29 30 31	61 54 67 65 67	202 121 106 128 137	132 131 130 120 74 70	114 113 110 107 385 335	203 145 131 	145 133 125 129 938 353	118 129 173 170 152	397 789 267 185 131 117	69 64 62 60 58	39 41 39 39 42 40	36 35 32 36 31 35	97 100 95 85 46
TOTAL MEAN MAX MIN CFSM IN.	2638 85.1 379 54 .95 1.09	2336 77.9 202 57 .87 .97	5596 181 1920 58 2.01 2.32	4145 134 427 63 1.49 1.72	5406 193 512 113 2.15 2.24	6566 212 938 116 2.36 2.72	5482 183 286 118 2.03 2.27	4418 143 789 78 1.59 1.83	2778 92.6 230 58 1.03 1.15	1452 46.8 61 39 .52 .60	1573 50.7 282 31 .56 .65	1572 52.4 202 29 .58 .65
STATIST	CICS OF MO	ONTHLY MEA	AN DATA FO	OR WATER	YEARS 1974	- 2001,	BY WATER	YEAR (WY)	•			
MEAN MAX (WY) MIN (WY)	92.3 304 1997 41.2 1987	112 242 1997 43.6 1974	170 577 1997 40.8 1981	184 527 1979 30.9 1981	178 409 1979 74.6 1980	222 525 1994 61.6 1985	211 594 1983 53.1 1985	169 410 1989 75.9 1999	118 315 1982 45.5 1999	108 421 1984 33.3 1999	74.1 177 1996 28.6 1999	93.6 292 1979 29.5 1980

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

SUMMARY STATISTICS	FOR 2000 CALEND	OAR YEAR	FOR 2001 WAT	TER YEAR	WATER YEARS	3 1974 - 2001
ANNUAL TOTAL	53211		43962			
ANNUAL MEAN	145		120		144	
HIGHEST ANNUAL MEAN					257	1984
LOWEST ANNUAL MEAN					59.7	1981
HIGHEST DAILY MEAN	2600	Mar 22	1920	Dec 17	3080	Sep 16 1999
LOWEST DAILY MEAN	47	Aug 26, Sep 10	29	Sep 6,19	23	Sep 12 1995
ANNUAL SEVEN-DAY MINIMUM	49	Sep 6	32	Sep 6	24	Aug 2 1999
MAXIMUM PEAK FLOW			a 4270	Dec 17	b 8160	Jun 22 1972
MAXIMUM PEAK STAGE			10.79	Dec 17	14.79	Sep 16 1999
ANNUAL RUNOFF (CFSM)	1.62		1.34		1.60	
ANNUAL RUNOFF (INCHES)	22.02		18.19		21.78	
10 PERCENT EXCEEDS	239		209		273	
50 PERCENT EXCEEDS	104		85		94	
90 PERCENT EXCEEDS	60		38		42	



 $[\]begin{array}{l} \textbf{a} \ \ \text{From rating curve extended above 3,600 ft}^{3}\text{/s on basis of runoff comparison with nearby station.} \\ \textbf{b} \ \ \text{From rating curve extended above 3,600 ft}^{3}\text{/s on basis of slope-area measurement of peak flow at gage height 13.40 ft.} \\ \end{array}$

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

WATER-QUALITY RECORDS

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

PERIOD OF DAILY RECORD.-SPECIFIC CONDUCTANCE: February 1972 to current year.

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

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

REMARKS.--Specific conductance, pH, and water temperature records rated good. Dissolved oxygen records rated good, except for July 23 to Sept. 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, 891 microsiemens, Mar. 5, 2001; minimum, 67 microsiemens, July 1, 1984.

pH: Maximum, 9.9, May 13, June 5, 1973; minimum, 5.4, Oct. 24, 26, 1973.
WATER TEMPERATURE: Maximum, 33.0°C, July 18, 1977; minimum, 0.0°C, many days during winters.
DISSOLVED OXYGEN: Maximum, 19.4 mg/L, Mar. 18, 1989; minimum, 0.8 mg/L, July 23, 1984.

WATER-QUALITY DATA, WATER YEAR OCTOBER 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)	SPE- CIFIC CON- DUCT- ANCE (µS/CM) (00095)	TEMPER- ATURE WATER (DEG C) (00010)	CALCIUM DIS- SOLVED (MG/L AS CA) (00915)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG) (00925)	POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935)	SODIUM, DIS- SOLVED (MG/L AS NA) (00930)
OCT 2000 12	1130	80020	1028	65	10.2	7.6	351	12.5	28.9	10.5	3.75	18.8
DATE	ANC WATER UNFLTR IT FIELD (MG/L A CACO) (0041)	RD RIDE, DIS- D SOLVE AS (MG/I B) AS CI	DIS- SOLVEI ED (MG/L AS L) SIO2)	SULFATE D DIS- SOLVED (MG/L AS SO4)	DIS- SOLVE (MG/L	GEN, A NO2+NO DIS- D SOLVE (MG/L AS N)	GEN, 3 NITRITE DIS- D SOLVEI (MG/L AS N)	PHORUS ORTHO DIS- SOLVED (MG/L AS P)	ALUM-, INUM, DIS- SOLVE (µG/L AS AL	(µG/I) AS AS	DIS- D SOLVE: (µG/L) AS B)	D
OCT 2000 12	95	31.2	12.8	21.9	<.041	3.95	.006	.195	E9	<2.0	118	
DATE	S	CADMIUM DIS- SOLVED (µG/L AS CD) (01025)	DIS- SOLVED (µG/L AS CR)	DIS- SOLVED (µG/L AS CU)	IRON, DIS- SOLVED (µG/L AS FE) 01046)	LEAD, DIS- SOLVED (µG/L AS PB) (01049)	DIS- SOLVED (µG/L AS MN)	MERCURY DIS- SOLVED (μG/L AS HG) (71890)	DIS- SOLVED (µG/L AS MO)	NICKEL, DIS- SOLVED (µG/L AS NI) (01065)	ZINC, DIS- SOLVED (µG/L AS ZN) (01090)	
OCT 2 12.		<.14	E.7	2.9	30	<1.00	15.2	<.23	E1.5	<2.40	<20	

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

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)		OXYGEN, DIS- SOLVED (MG/L) (00300)		SPE- CIFIC CON- DUCT- ANCE (µS/CM)		COLI- FORM, FECAL, 0.7 µM-MF (COLS./ 100 ML) (31625)
MAR 2001									
08	1120	1028	1028	155	14.3	8.1	348	4.9	310
21	1450	1028	1028	288	11.2	7.6	255	6.7	120
APR									
03	1115	1028	1028	240	12.0	7.5	243	7.3	240
17	1120	1028	1028	174	12.4	7.8	261	10.3	140
MAY 02	1115	1028	1028	97	10 1	7.6	306	16.5	E1200
14	1115 1120	1028	1028	97 77	10.1 9.5	7.6	316	15.5	160
23	1305	1028	1028	184	9.3	7.4	238	17.6	3400
JUN	1303	1020	1020	101	2.3	7.4	250	17.0	3400
05	1315	1028	1028	105	9.4	7.4	285	19.1	320
13	1400	1028	1028	92	9.1	7.5	298	23.6	E6500
26	1100	1028	1028	68	8.3	7.6	300	21.2	300
JUL									
09	1350	1028	1028	53	9.5	7.8	360	24.6	590
16	1530	1028	1028	41	10.3	8.3	389	25.3	1400
23	1145	1028	1028	42	8.7	7.5	381	22.7	680
AUG									
01	1330	1028	1028	43	11.2	7.9	365	22.3	590
15 SEP	1515	1028	1028	54	8.7	8.0	333	26.0	510
13	1400	1028	1028	33	10.4	8.0	424	21.4	290
25	1430	1028	1028	170	7.9	7.2	207	19.2	4700
23	1430	1020	1020	170	,	, . 2	207	17.2	1700

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

BIOLOGICAL DATA BENTHIC MACROINVERTEBRATES

REMARKS.--Samples were collected using a Hess sampler with a mesh size of 500 μ m. Each sample covered a total area of 3.2 m².

Date	10/12/00
Benthic Macroinvertebrate	Count
Nematoda (NEMATODES)	8
Annelida	
Oligochaeta (AQUATIC EARTHWORMS)	12
Arthropoda	
Acariformes	
Hydrachnidia (WATER MITES)	45
Crustacea	
Amphipoda (SCUDS)	
Gammaridae	
<u>Gammarus</u> sp	7
Insecta	
Ephemeroptera (MAYFLIES)	
Baetidae	
<u>Baetis</u> sp	11
<u>Pseudocloeon</u> sp	4
Ephemerellidae sp	
<u>Serratella</u> sp	12
Heptageniidae	
<u>Stenonema</u> sp	5
Isonychiidae	
<u>Isonychia</u> sp	1
Plecoptera (STONEFLIES)	
Chloroperlidae	1
Perlidae	
Acroneuria sp	1
Trichoptera (CADDISFLIES)	
Brachycentridae	
<u>Micrasema</u> sp	2
Glossosomatidae	
<u>Glossosoma</u> sp	1
Hydropsychidae	
<u>Cheumatopsyche</u> sp	144
<u>Hydropsyche</u> sp	578
Hydroptilidae	
<u>Leucotrichia</u> sp	2
Lepidostomatidae	
<u>Lepidostoma</u> sp	3
Philopotamidae	
<u>Chimarra</u> sp	50
Lepidoptera	
Pyralididae (MOTHS)	
<u>Petrophila</u> sp	1

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

BIOLOGICAL DATA BENTHIC MACROINVERTEBRATES--Continued

Date	10/12/00
Benthic Macroinvertebrate	Count
Coleoptera (BEETLES)	
Elmidae (RIFFLE BEETLES)	
Ancyronyx sp	3
<u>Optioservus</u> sp	125
<u>Oulimnius</u> sp	19
<u>Stenelmis</u> sp	56
Psephenidae (WATER PENNIES)	
<u>Psephenus</u> sp	5
Diptera (TRUE FLIES)	
Chironomidae (MIDGES)	31
Empididae (DANCE FLIES)	
<u>Hemerodromia</u> sp	5
Simuliidae (BLACK FLIES)	
Simulium sp	26
Tipulidae (CRANE FLIES)	
<u>Antocha</u> sp	4
Total Organisms	1162
Total Taxa	28

01480870 EAST BRANCH BRANDYWINE CREEK BELOW DOWNINGTOWN, 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
		OCTOBER		,	NOVEMBER			DECEMBER			JANUARY	
		OCIOBER		,	NOVEMBER			DECEMBER			UANUARI	
1	276	261	269	340	289	324						
2 3	312 330	269 310	297 323	349 339	315 322	337 328						
4	336	132	313	338	325	330						
5	261	130	201	351	332	340						
6	299	261	281	350	331	340						
7	317	297	307	342	325	334						
8	323	306	315	337	311	327						
9 10	324 328	315 316	320 323	333	320	328						
	320	310	323									
11	342	326	331									
12 13	348 351	332 333	340 344	335 333	309 313	318 323						
14	355	318	340	328	289	308						
15	361	322	345	314	289	302						
16	359	333	347	322	310	315						
17	356	327	337	327	316	322						
18	330	289	313	339	316	325						
19 20	316 270	270 255	301 260	339 338	327 324	333 330						
20	270	233	200	330	321	330						
21	294	263	272	330	322	326						
22 23	336 355	286 336	294 347	340 333	326 313	332 324						
24	352	331	343	331	315	324						
25	340	326	332	339	321	328						
26	343	326	333									
27	365	343	356									
28	357	323	332	296	257	279						
29	340 347	325 329	331	264	256	260						
30 31	347	323	336 329	261	254	257						
MONTH	365	130	317	351	254	319						
D.W			MEAN				M2.17			W2.V		W77.77
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			MARCH			APRIL			MAY	
DAY 1 2			MEAN 	MAX 316 307		MEAN 309 303	MAX 238 239		MEAN 233 237	MAX 309 308		MEAN 302 303
1 2 3	 	FEBRUARY		316 307 304	MARCH 304 294 293	309 303 299	238 239 244	225 234 236	233 237 240	309 308 309	MAY 292 297 296	302 303 304
1 2 3 4		FEBRUARY		316 307 304 399	MARCH 304 294 293 293	309 303 299 309	238 239 244 262	225 234 236 241	233 237 240 249	309 308 309 310	MAY 292 297 296 289	302 303 304 305
1 2 3	 	FEBRUARY 	 	316 307 304	MARCH 304 294 293	309 303 299	238 239 244	225 234 236	233 237 240	309 308 309	MAY 292 297 296	302 303 304
1 2 3 4 5	 	FEBRUARY		316 307 304 399 891	304 294 293 293 399	309 303 299 309 585	238 239 244 262 266	225 234 236 241 254 260	233 237 240 249 263	309 308 309 310 310	MAY 292 297 296 289 294	302 303 304 305 305
1 2 3 4 5		FEBRUARY	 	316 307 304 399 891 655 439	304 294 293 293 399 436 377	309 303 299 309 585 516 407	238 239 244 262 266 271 270	225 234 236 241 254 260 260	233 237 240 249 263 265 263	309 308 309 310 310 310	MAY 292 297 296 289 294 302 303	302 303 304 305 305 306 307
1 2 3 4 5	 	FEBRUARY		316 307 304 399 891	304 294 293 293 399	309 303 299 309 585	238 239 244 262 266	225 234 236 241 254 260	233 237 240 249 263	309 308 309 310 310	MAY 292 297 296 289 294	302 303 304 305 305
1 2 3 4 5		FEBRUARY		316 307 304 399 891 655 439 399	304 294 293 293 399 436 377 341	309 303 299 309 585 516 407 358	238 239 244 262 266 271 270 267	225 234 236 241 254 260 260 258	233 237 240 249 263 265 263 264	309 308 309 310 310 311 311	MAY 292 297 296 289 294 302 303 294	302 303 304 305 305 306 307 304
1 2 3 4 5 6 7 8 9		FEBRUARY	 	316 307 304 399 891 655 439 399 361 335	304 294 293 293 399 436 377 341 314 313	309 303 299 309 585 516 407 358 336 321	238 239 244 262 266 271 270 267 265 266	225 234 236 241 254 260 260 258 255 251	233 237 240 249 263 265 263 264 261 259	309 308 309 310 310 311 311 308 307	MAY 292 297 296 289 294 302 303 294 298	302 303 304 305 305 306 307 304 304 303
1 2 3 4 5 6 7 8 9 10		FEBRUARY	 	316 307 304 399 891 655 439 399 361 335	304 294 293 293 399 436 377 341 314 313	309 303 299 309 585 516 407 358 336 321 310 307	238 239 244 262 266 271 270 267 265 266	225 234 236 241 254 260 260 258 255 251	233 237 240 249 263 265 263 264 261 259	309 308 309 310 310 311 311 308 307	292 297 296 289 294 303 294 298 298 298	302 303 304 305 305 306 307 304 304 303
1 2 3 4 5 6 7 8 9 10		FEBRUARY		316 307 304 399 891 655 439 399 361 335 319 311 320	304 294 293 293 399 436 377 341 314 313 302 238	309 303 299 309 585 516 407 358 336 321 310 307 269	238 239 244 262 266 271 270 267 265 266 271 255 251	225 234 236 241 254 260 260 258 255 251 255 237 241	233 237 249 263 265 263 264 261 259 265 245	309 308 309 310 310 311 311 308 307	292 297 296 289 294 302 303 294 298 298 296 303 305	302 303 304 305 305 306 307 304 303 305 307 310
1 2 3 4 5 6 7 8 9 10 11 12 13 14		FEBRUARY	==== ==== ==== ==== ==== ====	316 307 304 399 891 655 439 361 335 319 311 320 292	MARCH 304 294 293 293 399 436 377 341 314 313 303 302 238 267	309 303 299 309 585 516 407 358 336 321 310 307 269 281	238 239 244 262 266 271 270 267 265 266 271 255 251	225 234 236 241 254 260 260 258 255 251 255 237 241 242	233 237 240 249 263 265 263 264 259 265 245 245	309 308 309 310 310 311 311 308 307 313 311 315 321	292 297 296 289 294 302 303 294 298 298 298 303 305 305	302 303 304 305 305 306 307 304 303 305 307 310 314
1 2 3 4 5 6 7 8 9 10		FEBRUARY		316 307 304 399 891 655 439 399 361 335 319 311 320 292 298	304 294 293 293 399 436 377 341 314 313 302 238	309 303 299 309 585 516 407 358 336 321 310 307 269	238 239 244 262 266 271 270 267 265 266 271 255 251	225 234 236 241 254 260 260 258 255 251 255 237 241	233 237 249 263 265 263 264 261 259 265 245	309 308 309 310 310 311 311 308 307	292 297 296 289 294 302 303 294 298 298 296 303 305	302 303 304 305 305 306 307 304 303 305 307 310
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15		FEBRUARY		316 307 304 399 891 655 439 361 335 319 311 320 292 298	MARCH 304 294 293 293 399 436 377 341 314 313 303 302 238 267 271 250	309 303 299 309 585 516 407 358 336 321 310 307 281 289	238 239 244 262 266 271 270 267 265 266 271 255 251 254 265	225 234 236 241 254 260 260 258 255 251 255 241 242 242	233 237 240 249 263 265 263 264 259 265 245 245 248 248	309 308 309 310 310 311 311 308 307 313 311 315 321 330	292 297 296 289 294 302 303 294 298 298 298 305 305 305 312	302 303 304 305 305 306 307 304 304 303 305 307 314 318
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15		FEBRUARY		316 307 304 399 891 655 439 361 335 311 320 292 298	304 294 293 293 399 436 377 341 314 313 302 238 267 271	309 303 299 309 585 516 407 358 336 321 310 307 269 281 289	238 239 244 262 266 271 270 267 265 266 271 255 251 254 265	225 234 236 241 254 260 260 258 255 251 255 237 241 242 242	233 237 240 249 263 265 263 264 259 265 245 245 248 248 248	309 308 309 310 310 311 311 308 307 313 311 315 321 330	292 297 296 289 294 303 294 298 298 298 298 303 305 305 312	302 303 304 305 305 305 306 307 304 304 303 305 307 310 318
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18		FEBRUARY		316 307 304 399 891 655 439 361 335 319 311 320 292 298 273 267 271 271	MARCH 304 294 293 293 399 436 377 341 314 313 303 302 238 267 271 250 247 262 262	309 303 299 309 585 516 407 358 336 321 310 307 269 281 289 267 258 266 268	238 239 244 262 266 271 270 267 265 266 271 255 251 254 265	225 234 236 241 254 260 260 258 255 251 255 241 242 242 242 242 233 238 226 231	233 237 240 249 263 265 263 261 259 265 245 248 248 248 248	309 308 309 310 310 311 311 311 308 307 313 311 315 321 330 321 312 310 314	292 297 296 289 294 302 303 294 298 298 298 305 305 305 312 295 286 303 300	302 303 304 305 305 305 306 307 304 304 303 305 314 318
1 2 3 4 4 5 5 6 7 8 8 9 10 11 12 13 14 15 16 17 18		FEBRUARY		316 307 304 399 891 655 439 361 335 311 320 292 298 273 267 271	304 294 293 293 399 436 377 341 313 302 238 267 271 250 247 262	309 303 299 309 585 516 407 358 336 321 310 307 269 281 289	238 239 244 262 266 271 270 267 265 266 271 255 251 254 265 267 265	225 234 236 241 254 260 258 255 251 255 237 241 242 242 233 238 226	233 237 240 249 263 265 263 264 261 259 265 245 248 248 247 250 238	309 308 309 310 310 311 311 308 307 313 311 315 321 330 321 312 310	292 297 296 289 294 302 303 294 298 298 298 298 296 303 305 305 312	302 303 304 305 305 305 306 307 304 303 307 310 314 318 307 303 307
1 2 3 4 5 5 6 7 8 8 9 10 11 12 13 14 15 16 17 18 19 20		FEBRUARY		316 307 304 399 891 655 439 361 335 311 320 292 298 273 267 271 271 272	304 294 293 293 399 436 377 341 314 313 302 238 267 271 250 247 262 262 261	309 303 299 309 585 516 407 358 336 321 310 307 269 281 289 267 258 266 268 268	238 239 244 262 266 271 270 267 265 266 271 255 251 254 265 267 260 248 246	225 234 236 241 254 260 258 255 251 255 237 241 242 242 242 233 238 226 231 241	233 237 240 249 263 265 263 264 259 265 245 245 248 248 247 250 238 240 248	309 308 309 310 310 311 311 308 307 313 315 321 330 321 310 314 315	292 297 296 289 294 303 294 298 298 298 298 298 298 298 303 305 305 312 295 286 303 300 304	302 303 304 305 305 306 307 304 304 303 305 307 310 314 318 307 303 307 309
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18		FEBRUARY		316 307 304 399 891 655 439 361 335 319 311 320 292 298 273 267 271 271	MARCH 304 294 293 293 399 436 377 341 314 313 303 302 238 267 271 250 247 262 262	309 303 299 309 585 516 407 358 336 321 310 307 269 281 289 267 258 266 268	238 239 244 262 266 271 270 267 265 266 271 255 251 254 265	225 234 236 241 254 260 260 258 255 251 255 241 242 242 242 242 233 238 226 231	233 237 240 249 263 265 263 261 259 265 245 248 248 248 248	309 308 309 310 310 311 311 311 308 307 313 311 315 321 330 321 312 310 314	292 297 296 289 294 302 303 294 298 298 298 305 305 305 312 295 286 303 300	302 303 304 305 305 305 306 307 304 304 303 305 314 318
1 2 3 3 4 5 5 6 7 8 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23		FEBRUARY		316 307 304 399 891 655 439 361 335 319 311 320 292 298 273 267 271 271 272 270 245 257	304 294 293 293 399 436 377 341 313 302 238 267 271 250 247 262 262 261 186 186 245	309 303 299 309 585 516 407 358 336 321 310 307 269 281 289 267 258 266 268 268 245 218 252	238 239 244 262 266 271 270 267 265 266 271 255 251 254 265 266 248 246 267 277 277 278 287	225 234 236 241 254 260 258 255 251 255 237 241 242 242 242 233 238 226 231 241	233 237 240 249 263 265 263 264 261 259 265 245 245 248 248 247 250 238 240 248 270 270 271 279	309 308 309 310 310 311 311 308 307 313 315 321 330 321 310 314 315	292 297 296 289 294 303 294 298 298 298 298 298 303 305 305 312 295 286 303 300 304	302 303 304 305 305 305 306 307 304 304 303 305 307 310 314 318 307 307 309 277 232 237
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24		FEBRUARY		316 307 304 399 891 655 439 361 335 319 311 320 292 298 273 267 271 271 272 270 245 257 269	MARCH 304 294 293 293 399 436 377 341 314 313 303 302 238 267 271 250 247 262 261 186 186 186 245 249	309 303 299 309 585 516 407 358 336 321 310 307 269 281 289 267 258 268 268 268 268 245 218 252 256	238 239 244 262 266 271 270 265 266 271 255 251 254 265 267 260 248 246 267 277 278 287 298	225 234 236 241 254 260 260 258 255 251 255 241 242 242 242 242 242 242 242 242 242	233 237 240 249 263 265 263 261 259 265 245 248 248 248 247 250 238 240 248 270 274 279 281	309 308 309 310 310 311 311 308 307 313 311 315 321 330 321 312 310 314 315 315	292 297 296 289 294 302 303 294 298 298 298 298 305 305 312 295 286 303 304 257 206 228 252	302 303 304 305 305 305 306 307 304 303 305 307 310 314 318 307 303 307 309 277 232 237 266
1 2 3 3 4 5 5 6 7 8 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23		FEBRUARY		316 307 304 399 891 655 439 361 335 319 311 320 292 298 273 267 271 271 272 270 245 257	304 294 293 293 399 436 377 341 313 302 238 267 271 250 247 262 262 261 186 186 245	309 303 299 309 585 516 407 358 336 321 310 307 269 281 289 267 258 266 268 268 245 218 252	238 239 244 262 266 271 270 267 265 266 271 255 251 254 265 266 248 246 267 277 277 278 287	225 234 236 241 254 260 258 255 251 255 237 241 242 242 242 233 238 226 231 241	233 237 240 249 263 265 263 264 261 259 265 245 245 248 248 247 250 238 240 248 270 270 271 279	309 308 309 310 310 311 311 308 307 313 315 321 330 321 310 314 315 315	292 297 296 289 294 303 294 298 298 298 298 298 303 305 305 312 295 286 303 300 304	302 303 304 305 305 305 306 307 304 304 303 305 307 310 314 318 307 307 309 277 232 237
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		FEBRUARY		316 307 304 399 891 655 439 361 335 319 311 320 292 298 273 267 271 271 272 270 245 257 269 277	MARCH 304 294 293 293 399 436 377 341 314 313 303 302 238 267 271 250 247 262 261 186 186 245 249 268 270	309 303 299 309 585 516 407 358 336 321 310 307 269 281 289 267 258 268 268 268 268 272	238 239 244 262 266 271 270 267 265 266 271 255 251 254 265 267 260 248 246 267 277 278 287 298 297	225 234 236 241 254 260 260 258 255 251 255 241 242 242 242 242 242 243 233 238 226 231 241 263 277 271 272 277	233 237 240 249 263 265 263 261 259 265 245 248 248 248 248 247 250 238 240 248 270 274 274 274 281 284	309 308 309 310 310 311 311 308 307 313 311 315 321 330 321 312 310 314 315 315 321 321 321 321 321 321 321 321 321 321	292 297 296 289 294 302 303 294 298 298 298 298 305 305 305 312 295 286 303 300 304 257 206 228 252 272	302 303 304 305 305 305 306 307 304 303 305 307 310 314 318 307 303 307 307 309 277 232 237 266 276
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		316 307 304 399 891 655 439 361 335 311 320 292 298 273 267 271 272 270 245 257 269 277	MARCH 304 294 293 399 436 377 341 314 313 302 238 267 271 250 247 262 262 261 186 186 245 249 268 270 272	309 303 299 309 585 516 407 358 336 321 310 307 269 281 289 267 258 268 268 268 245 218 252 256 272	238 239 244 262 266 271 270 265 266 271 255 251 265 267 269 248 248 247 277 278 287 298 299	225 234 236 241 254 260 258 255 251 255 241 242 242 242 242 242 242 242 242 242	233 237 240 249 263 265 263 264 259 265 245 248 248 248 248 247 250 238 240 248 247 250 238 248 248 248 248 248 248 248 248 249 249 249 249 249 249 249 249 249 249	309 308 309 310 310 311 311 311 308 307 313 311 315 321 330 321 312 310 314 315 315 321 321 321 321 321 321 321 321 321 321	292 297 296 289 294 302 303 294 298 298 298 298 296 303 305 305 312 295 286 303 304 257 206 228 252 272	302 303 304 305 305 305 306 307 304 304 303 307 314 318 307 303 307 307 309 277 232 237 266 276
1 2 3 4 4 5 6 7 8 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28		FEBRUARY		316 307 304 399 891 655 439 361 335 311 320 292 298 273 267 271 271 272 270 245 257 269 277	304 294 293 399 436 377 341 314 313 302 238 267 271 250 247 262 262 261 186 186 245 249 268 270 277	309 303 299 309 585 516 407 358 336 321 310 307 269 281 289 267 258 266 268 268 245 218 252 256 277 277 276 283	238 239 244 262 266 271 270 267 265 266 271 255 251 254 265 267 260 248 246 267 277 278 287 298 297	225 234 236 241 254 260 258 255 251 255 237 241 242 242 242 233 238 226 231 241 263 265 271 277 277	2333 2377 240 249 263 265 263 2641 259 265 245 245 248 248 248 270 238 248 270 248 279 281 284 283 283 284 285	309 308 309 310 310 311 311 311 308 307 313 311 315 321 330 314 315 312 310 314 315 262 255 276 280 280 207 230	292 297 296 289 294 303 298 298 298 298 298 298 303 305 305 312 295 286 303 304 257 206 228 252 272	302 303 304 305 305 305 306 307 304 304 303 307 310 318 307 303 307 307 309 277 232 237 266 276 220 169 222
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		316 307 304 399 891 655 439 361 335 319 311 320 292 298 273 267 271 272 270 245 257 269 277	304 294 293 293 399 436 377 341 314 313 302 238 267 271 250 247 262 262 261 186 186 245 249 268 270 272 277 277 277	309 303 299 309 585 516 407 358 336 321 310 307 269 281 289 267 258 268 268 268 245 218 252 256 272 277 276 283 285 174	238 239 244 262 266 271 270 267 265 266 271 255 251 265 267 260 248 246 267 277 278 287 298 297	225 234 236 241 254 260 258 255 251 255 241 242 242 242 242 242 242 242 242 242	233 237 240 249 263 265 263 264 259 265 245 248 248 248 248 247 250 238 248 248 248 248 248 248 259 265 248 248 248 248 248 259 269 269 269 269 269 269 269 269 269 26	309 308 309 310 310 311 311 311 313 308 307 313 321 330 321 312 310 314 315 321 321 321 321 321 321 321 321 321 321	292 297 296 289 294 302 303 298 298 298 298 298 305 305 305 305 305 305 305 305 312 295 286 303 304 257 206 228 227 2132 227 227 227 227 227 227 227 227 227 2	302 303 304 305 305 305 306 307 304 304 303 307 314 318 307 303 307 309 277 232 237 266 276 220 169 222 239 265
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		316 307 304 399 891 655 439 361 335 319 311 320 292 298 273 267 271 271 272 270 245 257 269 277	MARCH 304 294 293 399 436 377 341 314 313 303 302 238 267 271 250 247 262 261 186 186 245 249 268 270 277 275	309 303 299 309 585 516 407 358 336 321 310 307 269 281 289 267 258 268 268 268 268 272 277 276 283 285	238 239 244 262 266 271 270 267 265 266 271 255 251 254 265 267 260 248 246 267 277 278 287 298 297	225 234 236 241 254 260 268 255 251 255 241 242 242 242 242 242 242 242 242 242	233 237 240 249 263 265 263 261 259 265 245 248 248 248 247 250 238 240 248 270 274 274 274 274 275 281 284 283 286 257 259	309 308 309 310 310 311 311 308 307 313 311 315 321 330 321 312 310 314 315 315 321 321 321 321 321 321 321 321 321 321	292 297 296 289 294 302 303 294 298 298 298 298 305 305 305 305 305 305 305 312 295 286 303 304 227 228 227 228 227 228 227 228 227 228 228	302 303 304 305 305 305 306 307 304 303 305 307 310 314 318 307 303 307 307 309 277 232 237 266 276
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		316 307 304 399 891 655 439 361 335 319 311 320 292 298 273 267 271 272 270 245 257 269 277	304 294 293 293 399 436 377 341 314 313 302 238 267 271 250 247 262 262 261 186 186 245 249 268 270 272 277 277 277	309 303 299 309 585 516 407 358 336 321 310 307 269 281 289 267 258 268 268 268 245 218 252 256 272 277 276 283 285 174	238 239 244 262 266 271 270 267 265 266 271 255 251 265 267 260 248 246 267 277 278 287 298 297	225 234 236 241 254 260 258 255 251 255 241 242 242 242 242 242 242 242 242 242	233 237 240 249 263 265 263 264 259 265 245 248 248 248 248 247 250 238 248 248 248 248 248 248 259 265 248 248 248 248 248 259 269 269 269 269 269 269 269 269 269 26	309 308 309 310 310 311 311 311 313 308 307 313 321 330 321 312 310 314 315 321 321 321 321 321 321 321 321 321 321	292 297 296 289 294 302 303 298 298 298 298 298 305 305 305 305 305 305 305 305 312 295 286 303 304 257 206 228 227 2132 227 227 227 227 227 227 227 227 227 2	302 303 304 305 305 305 306 307 304 304 303 307 314 318 307 303 307 309 277 232 237 266 276 220 169 222 239 265

01480870 EAST BRANCH BRANDYWINE CREEK BELOW DOWNINGTOWN, 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		s	EPTEMBE	R
1	292	224	277	353	332	343	370	327	353	418	373	397
2	253	209	227	358	337	349	377	347	365	403	378	393
3	275	253	263	364	349	357	376	342	359	413	385	400
4	279	260	271	364	335	353	368	277	348	412	375	398
5	289	271	279	361	333	346	327	257	291	384	291	343
6	290	277	282	353	328	339	362	327	346	455	382	436
7	294	276	283	360	332	349	381	341	361	450	398	426
8	295	277	285	369	354	363	395	346	376	436	394	413
9	295	282	289	363	348	357	396	362	380	439	405	419
10	293	287	290	364	283	342	410	362	393	425	390	409
11	305	288	293	356	272	320	389	279	327	400	384	393
12	314	295	303	365	341	353	379	208	336	413	321	379
13	309	279	295	383	315	364	257	130	190	428	390	411
14	311	295	301	385	353	365	304	257	287	441	323	400
15	317	286	304	392	366	376	332	304	314	439	394	411
16	302	268	290	395	375	388	345	308	331	444	409	427
17	286	260	272	375	353	364	378	345	358	451	425	440
18	301	283	290	377	343	362	381	354	362	442	414	426
19	307	292	298	358	333	344	383	361	372	445	396	424
20	319	298	309	378	327	367	372	342	360	448	174	374
21	325	308	314	384	367	375	372	344	355	311	192	241
22	333	305	318	379	367	372	379	343	362	397	311	354
23	334	282	309	394	366	381	388	358	375	427	397	415
24	294	281	287	387	365	378	387	358	373	429	376	406
25	308	290	299	397	365	381	398	367	384	376	195	233
26 27 28 29 30 31	323 327 336 345 348	299 313 319 328 328	310 318 326 336 339	403 389 403 397 389 353	370 362 369 372 331 323	388 376 381 382 359 341	400 400 402 428 420 426	379 381 304 391 316 394	390 390 365 411 377 414	281 279 280 335 370	243 262 261 259 335	265 270 269 281 356
MONTH	348	209	295	403	272	362	428	130	355	455	174	374

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
		OCTOBER		N	OVEMBER		Г	ECEMBE	R		JANUAR	Y
1 2 3 4 5	7.7 7.7 7.8 7.9 7.4	7.5 7.4 7.5 7.2 7.0	7.5 7.5 7.5 7.5 7.3	8.3 8.3 8.5 8.6 8.5	7.5 7.6 7.6 7.6 7.6	7.6 7.7 7.7 7.7 7.8	 		 			
6 7 8 9 10	7.6 7.7 7.8 7.8 7.7	7.4 7.4 7.5 7.6 7.5	7.4 7.5 7.6 7.7	8.6 8.7 8.8 8.5	7.7 7.5 7.4 7.4	7.9 7.8 7.6 7.5	 		 			
11 12 13 14 15	7.6 7.7 7.8 7.8 7.9	7.4 7.4 7.5 7.5 7.5	7.5 7.5 7.6 7.6 7.6	8.4 8.4 7.6 8.3	7.6 7.5 7.5 7.5	7.7 7.6 7.6 7.6	 		 			
16 17 18 19 20	7.8 7.7 7.5 7.7 7.6	7.4 7.5 7.4 7.4 7.4	7.5 7.5 7.4 7.5 7.5	8.5 8.4 8.5 8.4 8.3	7.5 7.5 7.5 7.5 7.5	7.6 7.6 7.6 7.6 7.6	 		 			
21 22 23 24 25	7.6 7.6 7.7 7.8 7.8	7.4 7.3 7.4 7.4	7.4 7.4 7.5 7.5 7.5	8.5 8.4 8.4 8.3	7.5 7.5 7.6 7.5 7.5	7.7 7.6 7.7 7.6 7.6	 		 			
26 27 28 29 30 31	7.8 8.2 8.0 8.1 8.1	7.4 7.4 7.4 7.4 7.6 7.5	7.4 7.5 7.5 7.7 7.6 7.6	8.0 7.9 7.8	 7.4 7.5 7.5	7.5 7.5 7.5	 		 	 		
MAX MIN	8.2 7.4	7.6 7.0	7.7 7.3	8.8 7.6	7.7 7.4	7.9 7.5						

01480870 EAST BRANCH BRANDYWINE CREEK BELOW DOWNINGTOWN, 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 2				8.5 8.5	7.4 7.4	7.6 7.7	7.6 7.6	7.3 7.3	7.4 7.4	8.3 8.3	7.3 7.3	7.4 7.4
3 4				8.8	7.4 7.4	7.7 7.6	7.8 7.9	7.4 7.4	7.4 7.5	8.1 8.0	7.3 7.3	7.4 7.4
5				8.6	7.4	7.6	8.0	7.4	7.5	7.8	7.2	7.3
6 7				8.8 8.8	7.5 7.5	7.7 7.7	7.8 7.8	7.4 7.3	7.5 7.5	7.9 7.9	7.3 7.4	7.4 7.4
8 9				8.8 8.8	7.4 7.4	7.6 7.7	8.1 8.2	$7.4 \\ 7.4$	7.5 7.5	8.1	7.3 7.4	7.5 7.5
10				8.9	7.4	7.7	8.3	7.3	7.5	8.0	7.4	7.5
11				9.0 8.9	7.4	7.8 7.7	7.7 7.9	7.4 7.4	7.4 7.5	8.0	7.4 7.3	7.5
12 13				7.5	$7.4 \\ 7.4$	7.4	8.2	7.3	7.5	7.9 7.9	7.3	7.5 7.4
14 15				8.3 8.3	$7.4 \\ 7.4$	7.5 7.5	8.3 8.4	$7.4 \\ 7.4$	7.6 7.5	7.9 7.9	7.3 7.4	7.5 7.5
16				8.4	7.4	7.5	8.1	7.4	7.5	7.9	7.4	7.5
17 18				7.6 8.4	$7.4 \\ 7.4$	7.4 7.6	8.3 8.3	$7.4 \\ 7.4$	7.6 7.6	7.7 7.6	7.3 7.4	7.5 7.5
19 20				8.4 8.6	7.4	7.6 7.6	8.5 8.5	7.4 7.4	7.6 7.6	7.8 7.7	7.4	7.4 7.5
21				7.7	7.3	7.4	8.6	7.4	7.6	7.4	7.3	7.4
22				7.5	7.3	7.4	8.8	7.3	7.7	7.3	7.2	7.2
23 24				7.8 7.8	$7.4 \\ 7.4$	7.4 7.5	8.7 8.6	7.3 7.2	7.5 7.5	7.5 7.5	7.2 7.3	7.3 7.3
25				8.1	7.4	7.6	8.7	7.4	7.8	7.5	7.3	7.4
26 27	8.4	7.4	7.6	8.1 8.3	$7.4 \\ 7.4$	7.6 7.6	8.6 8.5	7.5 7.4	7.7 7.7	7.4 7.3	7.2 7.0	7.3 7.2
28 29	8.4	7.4	7.6	8.3 8.2	$7.4 \\ 7.4$	7.6 7.5	8.4 8.3	7.3 7.4	7.5 7.5	7.3 7.3	7.2 7.2	7.2 7.3
30 31				7.5 7.5	7.2	7.3 7.4	8.2	7.3	7.5	7.5 7.5	7.3	7.4 7.4
MAX	8.4	7.4	7.6	9.0	7.5	7.8	8.8	7.5	7.8	8.3	7.4	7.5
MIN	8.4	7.4	7.6	7.5	7.2	7.3	7.6	7.2	7.8	7.3	7.0	7.3
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	MEDIAN	MAX	MIN SEPTEMB	
1	7.5	JUNE 7.3	7.4	8.2	JULY 7.4	7.6	8.4	AUGUST	7.4	8.5	SEPTEMB 7.2	ER 7.5
1 2 3	7.5 7.4 7.4	JUNE 7.3 7.2 7.2	7.4 7.2 7.3	8.2 8.2 8.4	JULY 7.4 7.4 7.6	7.6 7.6 7.8	8.4 8.4 8.7	7.1 7.1 7.2	7.4 7.5 7.7	8.5 8.6 8.6	7.2 7.4 7.4	ER 7.5 7.6 7.6
1 2	7.5 7.4	JUNE 7.3 7.2	7.4 7.2	8.2 8.2	JULY 7.4 7.4	7.6 7.6	8.4 8.4	7.1 7.1	7.4 7.5	8.5 8.6	7.2 7.4	ER 7.5 7.6
1 2 3 4 5	7.5 7.4 7.4 7.5 7.7	7.3 7.2 7.2 7.3 7.2 7.3 7.2	7.4 7.2 7.3 7.3 7.3	8.2 8.2 8.4 8.1 7.9	7.4 7.4 7.6 7.5 7.4	7.6 7.6 7.8 7.7 7.5	8.4 8.4 8.7 8.3 7.8	7.1 7.1 7.2 7.1 7.0	7.4 7.5 7.7 7.4 7.2	8.5 8.6 8.6 8.5 8.5	7.2 7.4 7.4 7.3 7.2	7.5 7.6 7.6 7.5 7.5
1 2 3 4 5 6 7 8	7.5 7.4 7.4 7.5 7.7 7.7 7.9 7.8	7.3 7.2 7.2 7.3 7.2 7.3 7.3 7.3	7.4 7.2 7.3 7.3 7.3 7.4 7.4	8.2 8.2 8.4 8.1 7.9 8.2 8.4 8.1	7.4 7.4 7.6 7.5 7.4 7.5 7.4	7.6 7.6 7.8 7.7 7.5 7.6 7.8 7.7	8.4 8.4 8.7 8.3 7.8 8.2 8.2	7.1 7.1 7.2 7.1 7.0 6.9 6.9 6.9	7.4 7.5 7.7 7.4 7.2 7.2 7.2 7.3	8.5 8.6 8.5 8.5 8.5 8.4 8.5	7.2 7.4 7.4 7.3 7.2	7.5 7.6 7.6 7.5 7.5 7.5 7.6 7.5
1 2 3 4 5	7.5 7.4 7.4 7.5 7.7 7.7	7.3 7.2 7.2 7.3 7.2 7.3 7.2	7.4 7.2 7.3 7.3 7.3 7.4	8.2 8.2 8.4 8.1 7.9 8.2 8.4	7.4 7.4 7.6 7.5 7.4 7.4	7.6 7.6 7.8 7.7 7.5	8.4 8.4 8.7 8.3 7.8 8.2 8.2	7.1 7.1 7.2 7.1 7.0 6.9 6.9	7.4 7.5 7.7 7.4 7.2 7.2	8.5 8.6 8.6 8.5 8.5	7.2 7.4 7.4 7.3 7.2 7.4 7.4	7.5 7.6 7.6 7.5 7.5 7.5
1 2 3 4 5 6 7 8	7.5 7.4 7.4 7.5 7.7 7.7 7.9 7.8 7.6	7.3 7.2 7.3 7.2 7.3 7.2 7.3 7.2	7.4 7.2 7.3 7.3 7.3 7.4 7.4 7.4	8.2 8.2 8.4 8.1 7.9 8.2 8.4 8.1 8.4	7.4 7.4 7.6 7.5 7.4 7.4 7.5 7.6 7.5	7.6 7.6 7.8 7.7 7.5 7.6 7.8 7.7	8.4 8.4 8.7 8.3 7.8 8.2 8.2 8.2	7.1 7.1 7.2 7.1 7.0 6.9 6.9 7.0	7.4 7.5 7.7 7.4 7.2 7.2 7.2 7.3 7.3	8.5 8.6 8.5 8.5 8.5 8.4 8.5 8.4	7.2 7.4 7.4 7.3 7.2 7.4 7.4 7.4	7.5 7.6 7.6 7.5 7.5 7.6 7.5
1 2 3 4 5 6 7 8 9 10	7.5 7.4 7.5 7.7 7.7 7.9 7.8 7.6 7.8	7.3 7.2 7.3 7.2 7.3 7.2 7.3 7.2 7.3 7.2 7.3 7.3 7.3 7.3 7.3 7.1	7.4 7.2 7.3 7.3 7.3 7.4 7.4 7.4 7.3	8.2 8.4 8.1 7.9 8.2 8.4 8.1 8.3	7.4 7.4 7.5 7.4 7.5 7.4 7.5 7.5 7.5 7.5	7.6 7.6 7.8 7.7 7.5 7.6 7.8 7.7 7.7	8.4 8.4 8.7 8.3 7.8 8.2 8.2 8.2 8.1	7.1 7.1 7.1 7.2 7.1 7.0 6.9 6.9 6.9 7.0 7.0	7.4 7.5 7.7 7.4 7.2 7.2 7.3 7.3 7.3	8.5 8.6 8.5 8.5 8.5 8.5 8.5 8.5 8.4 8.2	7.2 7.4 7.3 7.2 7.4 7.3 7.2 7.4 7.4 7.4 7.3 7.3	7.5 7.6 7.6 7.5 7.5 7.6 7.5 7.5 7.5 7.5
1 2 3 4 5 6 7 8 9 10 11 12 13 14	7.5 7.4 7.5 7.7 7.7 7.9 7.8 7.6 7.8 7.7	7.3 7.2 7.3 7.2 7.3 7.2 7.3 7.3 7.3 7.3 7.3 7.3 7.1 7.1 7.1	7.4 7.2 7.3 7.3 7.4 7.4 7.4 7.3 7.3 7.2	8.2 8.2 8.4 8.1 7.9 8.2 8.4 8.1 8.3 8.3 8.3	7.4 7.4 7.5 7.4 7.5 7.5 7.5 7.5 7.5 7.5	7.6 7.8 7.7 7.5 7.6 7.8 7.7 7.7 7.7 7.7	8.4 8.4 8.7 8.3 7.8 8.2 8.2 8.2 8.1 7.1 7.4 6.9 7.2	7.1 7.1 7.2 7.1 7.0 6.9 6.9 7.0 7.0 7.0	7.4 7.5 7.7 7.4 7.2 7.2 7.3 7.3 7.3 7.1 6.8	8.5 8.6 8.5 8.5 8.5 8.4 8.5 8.4 8.2 8.4 8.2	7.2 7.4 7.3 7.2 7.4 7.4 7.3 7.2 7.4 7.4 7.3 7.3 7.4 7.4 7.3	7.5 7.6 7.5 7.5 7.5 7.6 7.5 7.6 7.5 7.5 7.5
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	7.5 7.4 7.4 7.5 7.7 7.9 7.8 7.6 7.8 7.7 7.9 7.8	7.3 7.2 7.3 7.3 7.3 7.3 7.3 7.3 7.3 7.1 7.2 7.2 7.2	7.4 7.2 7.3 7.3 7.4 7.4 7.4 7.3 7.3 7.3 7.3	8.2 8.4 8.1 7.9 8.2 8.4 8.1 8.4 8.3 8.3 8.3 8.3	7.4 7.4 7.5 7.4 7.5 7.6 7.5 7.6 7.5 7.5 7.5 7.5	7.6 7.6 7.8 7.7 7.5 7.6 7.8 7.7 7.7 7.7 7.6 7.6 7.7	8.4 8.4 8.7 8.3 7.8 8.2 8.2 8.2 8.1 7.1 7.4 6.9 7.2 7.7	7.1 7.1 7.2 7.1 7.0 6.9 6.9 7.0 7.0 7.0 6.8 6.6 6.9 7.0	7.4 7.5 7.7 7.4 7.2 7.2 7.3 7.3 7.3 7.1 6.8 7.0 7.2	8.5 8.6 8.5 8.5 8.5 8.4 8.5 8.4 8.2 8.2 8.2 8.3 7.8	7.2 7.4 7.4 7.3 7.2 7.4 7.4 7.4 7.3 7.3 7.3 7.3	7.5 7.6 7.6 7.5 7.5 7.6 7.5 7.6 7.5 7.5 7.5 7.5
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	7.5 7.4 7.5 7.7 7.7 7.9 7.8 7.8 7.7 7.9 7.8 7.8	JUNE 7.3 7.2 7.3 7.2 7.3 7.3 7.3 7.3 7.3 7.1 7.1 7.1 7.2 7.2 7.2 7.4	7.4 7.2 7.3 7.3 7.4 7.4 7.4 7.3 7.2 7.3 7.4 7.4	8.2 8.4 8.1 7.9 8.2 8.4 8.1 8.3 8.3 8.3 8.2 8.2	7.4 7.4 7.5 7.4 7.5 7.5 7.5 7.5 7.5 7.5 7.5 7.5 7.5 7.5	7.6 7.6 7.8 7.7 7.5 7.6 7.7 7.7 7.6 7.6 7.7 7.6	8.4 8.4 8.7 8.3 7.8 8.2 8.2 8.2 8.1 7.1 7.4 6.9 7.2 7.7	7.1 7.1 7.2 7.1 7.0 6.9 6.9 6.9 7.0 7.0 6.8 6.6 6.6 6.7 7.0	7.4 7.5 7.7 7.4 7.2 7.2 7.3 7.3 7.3 7.2 7.0 7.1 6.8 7.0 7.2	8.5 8.6 8.5 8.5 8.5 8.4 8.2 8.2 8.4 8.3 7.8 8.2	7.2 7.4 7.3 7.2 7.4 7.4 7.4 7.4 7.3 7.3 7.3 7.3 7.3 7.5	7.5 7.6 7.5 7.5 7.5 7.5 7.5 7.5 7.5 7.5 7.5 7.5
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	7.5 7.4 7.5 7.7 7.7 7.9 7.8 7.8 7.8 7.8 7.8 7.8 7.8	JUNE 7.3 7.2 7.3 7.2 7.3 7.3 7.3 7.3 7.3 7.2 7.2 7.2 7.1 7.1 7.1 7.2 7.2 7.4 7.4	7.4 7.2 7.3 7.3 7.4 7.4 7.4 7.3 7.3 7.2 7.3 7.4 7.4	8.2 8.4 8.1 7.9 8.2 8.4 8.1 8.3 8.3 8.3 8.3 8.2 8.2 8.2	7.4 7.4 7.5 7.4 7.5 7.5 7.5 7.5 7.5 7.5 7.5 7.5 7.5 7.5	7.6 7.8 7.7 7.5 7.6 7.8 7.7 7.7 7.7 7.7 7.6 7.6 7.6 7.7 7.7	8.4 8.4 8.7 8.3 7.8 8.2 8.2 8.2 8.1 7.1 7.4 6.9 7.2 7.7	7.1 7.1 7.2 7.1 7.0 6.9 6.9 7.0 7.0 7.0 6.8 6.6 9 7.0 7.0	7.4 7.5 7.7 7.4 7.2 7.2 7.3 7.3 7.3 7.2 7.0 7.1 6.8 7.0 7.2	8.5 8.6 8.5 8.5 8.5 8.4 8.5 8.4 8.2 8.2 8.3 7.8 8.2	7.2 7.4 7.3 7.2 7.4 7.4 7.4 7.4 7.4 7.3 7.3 7.3 7.5 7.5 7.5 7.5	7.5 7.6 7.5 7.5 7.6 7.5 7.6 7.5 7.5 7.5 7.5 7.5 7.5
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 7.7 7.7 7.9 7.8 7.6 7.8 7.7 7.9 7.8 7.7	7.3 7.2 7.3 7.3 7.3 7.3 7.3 7.3 7.3 7.3 7.2 7.2 7.1 7.1 7.2 7.2 7.4 7.4 7.4 7.4	7.4 7.2 7.3 7.3 7.4 7.4 7.4 7.3 7.3 7.2 7.3 7.4 7.4 7.5 7.5	8.2 8.4 8.1 7.9 8.2 8.4 8.1 8.3 8.3 8.3 8.2 8.2 8.2 8.2	7.4 7.4 7.5 7.4 7.5 7.6 7.5 7.5 7.5 7.5 7.5 7.5 7.5 7.3	7.6 7.6 7.8 7.7 7.5 7.6 7.7 7.7 7.6 7.6 7.7 7.7 7.6 7.5 7.5	8.4 8.4 8.7 8.3 7.8 8.2 8.2 8.2 8.1 7.1 7.4 6.9 7.2 7.7 8.0 8.1 8.3 8.2	7.1 7.1 7.2 7.1 7.0 6.9 6.9 7.0 7.0 7.0 6.8 6.6 6.9 7.0 7.0	7.4 7.5 7.7 7.4 7.2 7.2 7.3 7.3 7.2 7.0 7.1 6.8 7.0 7.5 7.7 7.7	8.5 8.6 8.6 8.5 8.5 8.5 8.5 8.4 8.2 8.2 8.2 8.2 8.2 8.2 8.2	7.2 7.4 7.3 7.2 7.4 7.4 7.4 7.4 7.4 7.3 7.3 7.3 7.3 7.5 7.5 7.5 7.5 7.5	7.5 7.6 7.6 7.5 7.5 7.6 7.5 7.5 7.5 7.5 7.5 7.5 7.5 7.6 7.6 7.6 7.6
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	7.5 7.4 7.5 7.7 7.7 7.9 7.8 7.8 7.8 7.8 7.8 7.8 7.8	JUNE 7.3 7.2 7.3 7.2 7.3 7.3 7.3 7.3 7.3 7.2 7.2 7.2 7.1 7.1 7.1 7.2 7.2 7.4 7.4	7.4 7.2 7.3 7.3 7.4 7.4 7.4 7.3 7.3 7.2 7.3 7.4 7.4	8.2 8.4 8.1 7.9 8.2 8.4 8.1 8.3 8.3 8.3 8.3 8.2 8.2 8.2	7.4 7.4 7.5 7.4 7.5 7.5 7.5 7.5 7.5 7.5 7.5 7.5 7.5 7.5	7.6 7.8 7.7 7.5 7.6 7.8 7.7 7.7 7.7 7.7 7.6 7.6 7.6 7.7 7.7	8.4 8.4 8.7 8.3 7.8 8.2 8.2 8.2 8.1 7.1 7.4 6.9 7.2 7.7	7.1 7.1 7.2 7.1 7.0 6.9 6.9 7.0 7.0 7.0 6.8 6.6 9 7.0 7.0	7.4 7.5 7.7 7.4 7.2 7.2 7.3 7.3 7.3 7.2 7.0 7.1 6.8 7.0 7.2	8.5 8.6 8.5 8.5 8.5 8.4 8.5 8.4 8.2 8.2 8.3 7.8 8.2	7.2 7.4 7.3 7.2 7.4 7.4 7.4 7.4 7.4 7.3 7.3 7.3 7.5 7.5 7.5 7.5	7.5 7.6 7.5 7.5 7.6 7.5 7.6 7.5 7.5 7.5 7.5 7.5 7.5
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1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	7.5 7.4 7.5 7.7 7.7 7.9 7.8 7.8 7.8 7.7 7.9 7.8 7.8 7.9 7.8 7.9	7.3 7.2 7.3 7.3 7.3 7.3 7.3 7.3 7.3 7.3 7.2 7.2 7.2 7.1 7.1 7.1 7.2 7.2 7.4 7.4 7.4 7.4 7.5	7.4 7.2 7.3 7.3 7.4 7.4 7.4 7.3 7.2 7.3 7.4 7.4 7.5 7.5 7.5	8.2 8.4 8.1 7.9 8.2 8.4 8.1 8.3 8.3 8.3 8.3 8.2 8.2 8.2	7.4 7.4 7.5 7.4 7.5 7.5 7.5 7.5 7.5 7.5 7.5 7.5 7.5 7.5	7.6 7.8 7.7 7.5 7.6 7.8 7.7 7.7 7.7 7.6 7.6 7.6 7.5 7.6 7.5 7.6	8.4 8.4 8.7 8.3 7.8 8.2 8.2 8.2 8.1 7.1 7.4 6.9 7.7 8.0 8.1 8.3 8.2 8.2	7.1 7.1 7.2 7.1 7.0 6.9 6.9 6.9 7.0 7.0 6.8 6.6 9.0 7.0 7.5 7.5	7.4 7.5 7.4 7.2 7.2 7.3 7.3 7.2 7.0 7.1 6.8 7.0 7.2 7.5 7.6 7.7 7.8	8.5 8.6 8.5 8.5 8.4 8.2 8.4 8.3 7.8 8.2 8.2 8.2 8.2	7.2 7.4 7.3 7.2 7.4 7.4 7.4 7.3 7.3 7.3 7.3 7.3 7.3 7.5 7.5 7.5 7.5 7.5 7.5 7.5 7.5 7.5	7.5 7.6 7.5 7.5 7.6 7.5 7.6 7.5 7.5 7.5 7.5 7.5 7.5 7.6 7.7 7.5 7.5
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1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 28 28 29 20 20 20 20 20 20 20 20 20 20 20 20 20	7.5 7.4 7.5 7.7 7.7 7.9 7.8 7.8 7.8 7.8 7.8 7.8 7.9 8.2 8.0 8.1 8.1 8.2 8.4	7.3 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 7.5 7.5 7.5 7.5	7.4 7.2 7.3 7.3 7.4 7.4 7.4 7.3 7.2 7.3 7.4 7.5 7.5 7.6 6 7.6 7.6 7.7	8.2 8.2 8.4 8.1 7.9 8.2 8.4 8.3 8.3 8.1 8.2 8.2 8.2 8.2 8.2 8.3 7.7 8.1 8.1 8.2 8.3	7.4 7.4 7.5 7.4 7.5 7.6 7.5 7.5 7.5 7.5 7.5 7.5 7.5 7.5 7.5 7.5	7.6 7.8 7.7 7.5 7.6 7.8 7.7 7.7 7.6 7.7 7.6 7.7 7.6 7.5 7.6 7.5 7.6 7.5 7.6 7.5 7.6 7.5 7.6 7.5 7.6 7.5 7.6	8.4 8.4 8.7 8.3 7.8 8.2 8.2 8.2 8.1 7.1 7.4 6.9 7.2 7.7 8.0 8.1 8.3 8.2 8.2 8.1 8.2 8.2 8.2 8.2 8.2 8.2 8.2 8.2 8.3 8.3 8.6 8.7 8.6 8.6 8.6 8.6 8.6 8.6 8.6 8.6 8.6 8.6	7.1 7.1 7.2 7.1 7.0 6.9 6.9 6.9 7.0 7.0 6.8 6.6 6.9 7.0 7.5 7.5 7.5 7.5 7.5 7.4 7.4	7.4 7.5 7.4 7.2 7.2 7.3 7.2 7.1 6.8 7.2 7.5 7.7 7.7 7.6 7.7	8.5 8.6 8.5 8.5 8.5 8.4 8.2 8.2 8.2 8.2 8.2 8.2 8.7 7.4 7.7 7.8 7.7	7.2 7.4 7.4 7.4 7.4 7.3 7.3 7.3 7.3 7.4 7.4 7.5 7.5 7.5 7.5 7.5 7.5 7.5 7.7 7.2 7.2 7.2 7.2 7.3 7.2 7.3 7.3 7.3	7.55 7.66 7.55 7.65 7.65 7.65 7.55 7.55
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 27 28 29 29 20 20 20 20 20 20 20 20 20 20 20 20 20	7.5 7.4 7.5 7.7 7.7 7.9 7.8 7.8 7.8 7.8 7.8 7.8 7.9 7.8 7.9 7.9 8.2 8.2 8.1 8.1 8.2 8.4 8.2 8.2	7.3 7.2 7.3 7.3 7.3 7.3 7.3 7.3 7.3 7.2 7.2 7.1 7.1 7.1 7.2 7.2 7.4 7.4 7.4 7.4 7.5 7.5 7.5 7.5 7.5 7.5 7.5	7.4 7.2 7.3 7.3 7.4 7.4 7.4 7.3 7.2 7.3 7.4 7.5 7.5 7.6 7.6 7.6 7.7 7.7	8.2 8.4 8.1 7.9 8.2 8.4 8.3 8.3 8.3 8.1 8.2 8.2 8.2 8.2 8.3 7.7 8.1 8.1 8.2 8.3	7.4 7.4 7.5 7.4 7.5 7.5 7.5 7.5 7.5 7.5 7.5 7.5 7.5 7.5	7.6 7.8 7.7 7.5 7.6 7.8 7.7 7.7 7.6 7.6 7.7 7.6 7.5 7.6 7.5 7.6 7.5 7.6 7.5 7.6 7.5 7.5 7.6 7.5 7.5 7.6 7.5 7.5	8.4 8.4 8.7 8.3 7.8 8.2 8.2 8.2 8.1 7.1 7.4 6.9 7.7 8.0 8.1 8.3 8.6 8.7 8.5 8.7 8.5 8.7	7.1 7.1 7.2 7.1 7.0 6.9 6.9 6.9 7.0 7.0 6.8 6.6 9 7.0 7.5 7.5 7.5 7.5 7.5 7.5 7.5 7.5 7.3 7.4	7.4 7.5 7.4 7.2 7.2 7.3 7.3 7.2 7.0 7.1 6.8 7.7 7.8 7.9 7.8 7.7 7.6 7.7 7.6 7.7	8.5 8.6 8.5 8.5 8.4 8.5 8.4 8.2 8.4 8.3 7.7 7.4 7.7 7.8 7.7 7.3	7.2 7.4 7.3 7.2 7.4 7.4 7.4 7.3 7.3 7.3 7.3 7.3 7.5 7.5 7.5 7.5 7.5 7.5 7.5 7.5 7.7 7.7	7.5 7.6 7.5 7.5 7.5 7.5 7.5 7.5 7.5 7.5 7.6 7.6 7.6 7.7 7.4 7.3 7.4 7.3 7.2 7.4 7.5 7.5
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 20 20 20 20 20 20 20 20 20 20 20 20 20	7.5 7.4 7.5 7.7 7.7 7.9 7.8 7.8 7.8 7.8 7.8 7.8 7.9 7.8 8.2 8.2 8.1 8.2 8.2 8.2 8.2	7.3 7.2 7.3 7.3 7.3 7.3 7.3 7.3 7.2 7.2 7.1 7.1 7.1 7.2 7.2 7.4 7.4 7.4 7.5 7.5 7.5 7.5 7.5 7.5 7.5	7.4 7.2 7.3 7.3 7.4 7.4 7.4 7.4 7.3 7.2 7.3 7.4 7.5 7.5 7.6 7.6 7.6 7.6 7.7 7.7 7.7	8.2 8.4 8.1 7.9 8.2 8.4 8.3 8.3 8.3 8.3 8.2 8.2 8.2 8.2 8.2 8.3 7.7 8.1 8.1 8.2 8.3	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 7.8 7.7 7.5 7.6 7.8 7.7 7.7 7.7 7.7 7.6 7.5 7.6 7.5 7.5 7.6 7.5 7.5 7.5 7.5	8.4 8.4 8.7 8.3 7.8 8.2 8.2 8.2 8.1 7.1 7.4 6.9 7.2 7.7 8.0 8.1 8.3 8.6 8.7 8.6 8.7 8.6 8.7 8.5 8.7 8.5	7.1 7.1 7.2 7.1 7.0 6.9 6.9 7.0 7.0 7.0 6.8 6.6 6.9 7.0 7.5 7.5 7.5 7.5 7.5 7.4 7.4 7.4 7.4 7.4 7.3 7.4 7.3	7.4 7.5 7.4 7.2 7.2 7.3 7.3 7.2 7.0 7.18 7.0 7.2 7.5 7.7 7.8 7.7 7.6 7.7 7.5 7.7	8.5 8.6 8.5 8.5 8.4 8.5 8.4 8.2 8.2 8.2 8.2 8.2 8.2 8.2 7.7 7.4 7.7 7.8 7.7 7.3 7.6 7.7 7.8 7.9	7.2 7.4 7.3 7.2 7.4 7.4 7.3 7.3 7.3 7.3 7.3 7.5 7.5 7.5 7.5 7.5 7.5 7.5 7.5 7.5 7.5	7.5 7.6 7.5 7.5 7.5 7.5 7.5 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
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 27 28 29 29 20 20 20 20 20 20 20 20 20 20 20 20 20	7.5 7.4 7.5 7.7 7.7 7.9 7.8 7.8 7.8 7.8 7.8 7.8 7.9 7.8 7.9 7.9 8.2 8.2 8.1 8.1 8.2 8.4 8.2 8.2	7.3 7.2 7.3 7.3 7.3 7.3 7.3 7.3 7.3 7.2 7.2 7.1 7.1 7.1 7.2 7.2 7.4 7.4 7.4 7.4 7.5 7.5 7.5 7.5 7.5 7.5 7.5	7.4 7.2 7.3 7.3 7.4 7.4 7.4 7.3 7.2 7.3 7.4 7.5 7.5 7.6 7.6 7.6 7.7 7.7	8.2 8.4 8.1 7.9 8.2 8.4 8.3 8.3 8.3 8.1 8.2 8.2 8.2 8.2 8.3 7.7 8.1 8.1 8.2 8.3	7.4 7.4 7.5 7.4 7.5 7.5 7.5 7.5 7.5 7.5 7.5 7.5 7.5 7.5	7.6 7.8 7.7 7.5 7.6 7.8 7.7 7.7 7.6 7.6 7.7 7.6 7.5 7.6 7.5 7.6 7.5 7.6 7.5 7.6 7.5 7.5 7.6 7.5 7.5 7.6 7.5 7.5	8.4 8.4 8.7 8.3 7.8 8.2 8.2 8.2 8.1 7.1 7.4 6.9 7.7 8.0 8.1 8.3 8.6 8.7 8.5 8.7 8.5 8.7	7.1 7.1 7.2 7.1 7.0 6.9 6.9 6.9 7.0 7.0 6.8 6.6 9 7.0 7.5 7.5 7.5 7.5 7.5 7.5 7.5 7.5 7.3 7.4	7.4 7.5 7.4 7.2 7.2 7.3 7.3 7.2 7.0 7.1 6.8 7.7 7.8 7.9 7.8 7.7 7.6 7.7 7.6 7.7	8.5 8.6 8.5 8.5 8.4 8.5 8.4 8.2 8.4 8.3 7.7 7.4 7.7 7.8 7.7 7.3	7.2 7.4 7.3 7.2 7.4 7.4 7.4 7.3 7.3 7.3 7.3 7.3 7.5 7.5 7.5 7.5 7.5 7.5 7.5 7.5 7.7 7.7	7.5 7.6 7.5 7.5 7.5 7.5 7.5 7.5 7.5 7.5 7.6 7.6 7.6 7.7 7.4 7.3 7.4 7.3 7.2 7.4 7.5 7.5

01480870 EAST BRANCH BRANDYWINE CREEK BELOW DOWNINGTOWN, 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	15.5 16.5	13.5 14.0	14.5 15.5	11.5 11.5	8.5 8.5	10.0						
3	18.0	14.5	16.0	12.0	9.0	10.5						
4 5	18.5 17.5	16.0 16.5	17.0 17.0	13.0 12.0	10.5 9.5	11.5 10.5						
6	18.0	16.5	17.5	11.0	8.0	9.5						
7 8	17.0 14.0	14.0 11.5	15.5 13.0	10.5 11.5	8.0 9.5	9.0 10.5						
9 10	11.5 11.5	10.5 10.0	11.0 10.5	12.5	11.0	12.0						
11	13.0	10.0	11.5									
12	14.0	11.0	12.5	12.0	10.5	11.0						
13 14	14.5 15.0	11.0 12.0	12.5 13.5	12.0 11.5	10.5 9.0	11.5 11.0						
15	16.0	12.5	14.5	9.5	8.0	8.5						
16 17	15.5 15.0	14.0 14.5	15.0 14.5	8.5 9.5	6.5 7.5	7.5 8.5						
18	15.0	14.5	14.5	8.5	6.5	7.5						
19 20	15.0 14.0	13.0 12.0	14.0 13.0	7.0 6.5	5.5 4.5	6.5 5.5						
21	14.5	12.0	13.5	6.0	4.0	5.0						
22 23	14.5 13.5	12.5 11.0	13.5 12.0	5.0 5.0	3.0 2.5	4.0 3.5						
24 25	14.0 15.0	11.0 12.0	12.0 13.5	5.0 5.0	2.5 3.0	3.5 4.0						
26	15.0	13.0	14.0									
27	15.5	12.5	14.0									
28 29	15.0 11.5	11.5 9.5	13.5 10.5	9.0 8.0	7.5 6.0	8.0 7.0						
30 31	11.0 11.5	8.5 8.5	10.0 10.0	7.5	7.0	7.0						
MONTH	18.5	8.5	13.5	13.0	2.5	8.2						
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
DAY	MAX	MIN FEBRUAR		MAX	MIN MARCH	MEAN	MAX	MIN APRIL	MEAN	MAX	MIN MAY	MEAN
1		FEBRUAR	Y 	6.0	MARCH 3.5	4.5	8.0	APRIL 6.5	7.5	19.0	MAY 12.5	15.5
		FEBRUAR	Y		MARCH			APRIL			MAY	
1 2 3 4		FEBRUAR	 	6.0 7.0 8.0 7.0	3.5 4.5 6.0 3.5	4.5 5.5 7.0 5.5	8.0 8.5 10.0 12.0	APRIL 6.5 7.0 6.0 8.0	7.5 7.5 8.0 10.0	19.0 20.5 21.5 22.0	MAY 12.5 15.0 16.5 17.5	15.5 17.5 19.0 19.5
1 2 3 4 5	 	FEBRUAR	 	6.0 7.0 8.0 7.0 4.5	MARCH 3.5 4.5 6.0 3.5 3.0	4.5 5.5 7.0 5.5 3.5	8.0 8.5 10.0 12.0 12.0	APRIL 6.5 7.0 6.0 8.0 8.0	7.5 7.5 8.0 10.0	19.0 20.5 21.5 22.0 21.0	MAY 12.5 15.0 16.5 17.5	15.5 17.5 19.0 19.5 19.5
1 2 3 4 5		FEBRUAR	 	6.0 7.0 8.0 7.0 4.5 4.5	MARCH 3.5 4.5 6.0 3.5 3.0 2.5 3.5	4.5 5.5 7.0 5.5 3.5	8.0 8.5 10.0 12.0 12.0	APRIL 6.5 7.0 6.0 8.0 8.0 9.5 9.5	7.5 7.5 8.0 10.0 10.0	19.0 20.5 21.5 22.0 21.0	MAY 12.5 15.0 16.5 17.5 17.5 15.5 13.5	15.5 17.5 19.0 19.5 19.5
1 2 3 4 5 6 7 8		FEBRUAR	 	6.0 7.0 8.0 7.0 4.5	MARCH 3.5 4.5 6.0 3.5 3.0	4.5 5.5 7.0 5.5 3.5	8.0 8.5 10.0 12.0 12.0	APRIL 6.5 7.0 6.0 8.0 8.0	7.5 7.5 8.0 10.0 10.0	19.0 20.5 21.5 22.0 21.0 19.5 18.5 18.5	MAY 12.5 15.0 16.5 17.5 17.5 15.5 13.5 13.5 15.0	15.5 17.5 19.0 19.5 19.5 17.0 15.5 15.5 16.5
1 2 3 4 5	 	FEBRUAR	 	6.0 7.0 8.0 7.0 4.5 7.0 6.5 7.0	MARCH 3.5 4.5 6.0 3.5 3.0 2.5 3.5 4.0	4.5 5.5 7.0 5.5 3.5 5.5 6.0 5.5	8.0 8.5 10.0 12.0 12.0 11.0 10.5	6.5 7.0 6.0 8.0 8.0 9.5 9.5 9.0	7.5 7.5 8.0 10.0 10.0	19.0 20.5 21.5 22.0 21.0 19.5 18.5 18.5 18.5	MAY 12.5 15.0 16.5 17.5 17.5 13.5 13.5	15.5 17.5 19.0 19.5 19.5 17.0 15.5 15.5 16.5 17.0
1 2 3 4 5 6 7 8 9 10		FEBRUAR	 	6.0 7.0 8.0 7.0 4.5 4.5 7.0 6.5 7.0	MARCH 3.5 4.5 6.0 3.5 3.0 2.5 3.5 4.0 5.0 4.0	4.5 5.5 7.0 5.5 3.5 3.5 5.5 6.0 5.5	8.0 8.5 10.0 12.0 12.0 11.0 10.5 10.0 15.0 13.5	APRIL 6.5 7.0 6.0 8.0 8.0 9.5 9.5 9.5 11.0	7.5 7.5 8.0 10.0 10.0 10.0 9.5 12.0 13.5	19.0 20.5 21.5 22.0 21.0 19.5 18.5 18.5 19.5	MAY 12.5 15.0 16.5 17.5 17.5 13.5 13.5 13.5 15.0 16.0	15.5 17.5 19.0 19.5 19.5 17.0 15.5 16.5 17.0
1 2 3 4 5 6 7 8 9 10		FEBRUAR	Y	6.0 7.0 8.0 7.0 4.5 4.5 7.0 6.5 6.5 7.0 7.0	3.5 4.5 6.0 3.5 3.0 2.5 3.5 4.0 5.0 4.0 4.0 4.5 5.5	4.5.5 7.05.5 3.5.5 5.5.0 5.5.5 6.0	8.0 8.5 10.0 12.0 12.0 11.0 10.5 10.0 15.0 13.5 12.0 14.5	6.5 7.0 6.0 8.0 8.0 9.5 9.5 9.0 12.5	7.5 7.5 8.0 10.0 10.0 10.0 9.5 12.0 13.5	19.0 20.5 21.5 22.0 21.0 19.5 18.5 18.5 19.5	MAY 12.5 15.0 16.5 17.5 17.5 13.5 13.5 13.6 15.0 16.0 17.0 16.0	15.5 17.5 19.0 19.5 19.5 17.0 15.5 16.5 17.0 18.0 18.5 17.5
1 2 3 4 5 6 7 8 9 10		FEBRUAR	Y	6.0 7.0 8.0 7.0 4.5 4.5 7.0 6.5 6.5 7.0	3.5 4.5 6.0 3.5 3.0 2.5 3.5 4.0 5.0 4.0	4.55.5 75.55 3.55 3.55 5.55 5.55 5.55	8.0 8.5 10.0 12.0 12.0 11.0 10.5 10.0 15.0 15.0	6.5 7.0 6.0 8.0 8.0 9.5 9.5 9.0 12.5	7.5 7.5 8.0 10.0 10.0 10.0 9.5 12.0 13.5	19.0 20.5 21.5 22.0 21.0 19.5 18.5 18.5 18.5 19.5	MAY 12.5 15.0 16.5 17.5 17.5 15.5 13.5 15.0 15.0 16.0 17.0	15.5 17.5 19.0 19.5 19.5 17.0 15.5 16.5 17.0
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15		FEBRUAR		6.0 7.0 8.0 7.0 4.5 4.5 7.0 6.5 6.5 7.0 7.0 8.0 7.0	MARCH 3.5 4.5 6.0 3.5 3.0 2.5 3.5 4.0 5.0 4.0 4.5 5.5 6.0 5.5	4.5 5.0 5.5 3.5 3.5 5.5 6.0 7.0 7.0	8.0 8.5 10.0 12.0 12.0 11.0 10.5 10.0 15.0 15.0 14.5 14.5 14.5	APRIL 6.5 7.0 6.0 8.0 8.0 9.5 9.5 9.0 12.5 11.0 10.5 10.5 10.0	7.5 7.5 8.0 10.0 10.0 10.0 9.5 12.0 13.5 12.0 11.0 12.5 12.0	19.0 20.5 21.5 22.0 21.0 19.5 18.5 18.5 19.5 21.0 20.5 20.0 18.0 18.5	MAY 12.5 15.0 16.5 17.5 17.5 13.5 13.5 13.5 15.0 15.0 16.0 17.0 14.5 14.0	15.5 17.5 19.0 19.5 19.5 17.0 15.5 16.5 17.0 18.0 18.5 17.5 16.0 16.0
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15		FEBRUAR		6.0 7.0 8.0 7.0 4.5 4.5 7.0 6.5 6.5 7.0 7.0 8.0 7.0	3.5 4.5 6.0 3.5 3.0 2.5 3.5 4.0 5.0 4.0 4.0 4.5 5.5 6.0 5.5	4.55 7.05 3.5 3.55 5.50 5.5 6.00 7.00	8.0 8.5 10.0 12.0 11.0 10.5 10.0 15.0 15.0 14.5 14.5 14.5	APRIL 6.5 7.0 6.0 8.0 8.0 9.5 9.5 9.0 12.5 11.0 10.5 10.5 10.0	7.5 7.5 8.0 10.0 10.0 10.0 9.5 12.0 13.5 12.0 12.0 12.5 12.0	19.0 20.5 21.5 22.0 21.0 19.5 18.5 18.5 19.5 21.0 20.5 20.0 18.0 18.5	MAY 12.5 15.0 16.5 17.5 17.5 13.5 13.5 15.0 16.0 17.0 16.0 14.5 14.0	15.5 17.5 19.0 19.5 19.5 17.0 15.5 16.5 17.0
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18		FEBRUAR		6.0 7.0 8.0 7.0 4.5 4.5 7.0 6.5 6.5 7.0 7.0 8.0 7.0 8.0 7.5 8.5	MARCH 3.5 4.5 6.0 3.5 3.0 2.5 3.5 4.0 5.0 4.0 4.5 5.5 6.0 5.5 6.0 6.5 5.0	4.5 5.0 5.5 3.5 3.5 5.5 6.0 7.0 7.0 7.0 7.0	8.0 8.5 10.0 12.0 12.0 11.0 10.5 10.0 15.0 13.5 12.0 14.5 14.5 13.5	APRIL 6.5 7.0 6.0 8.0 8.0 9.5 9.5 9.0 12.5 11.0 10.5 10.5 10.0 11.0 9.5 8.5 7.5	7.5 7.5 8.0 10.0 10.0 10.0 9.5 12.0 13.5 12.0 11.0 12.5 12.0	19.0 20.5 21.5 22.0 21.0 19.5 18.5 18.5 19.5 21.0 20.5 20.0 18.0 18.5 16.0 15.0	MAY 12.5 15.0 16.5 17.5 17.5 13.5 13.5 13.5 15.0 16.0 17.0 14.5 14.0 14.0 15.0	15.5 17.5 19.0 19.5 19.5 17.0 15.5 16.5 17.0 18.0 18.0 16.0 16.0 15.0
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20		FEBRUAR		6.0 7.0 8.0 7.0 4.5 4.5 7.0 6.5 7.0 7.0 8.0 7.0 8.0 7.5 8.5 9.0 8.5	MARCH 3.5 4.5 6.0 3.5 3.0 2.5 3.5 4.0 5.0 4.0 4.5 6.0 5.5 6.0 6.5 5.5 5.0	4.55.5 75.55.5 3.55.55.5 5.55.6 77.0 77.0 77.0	8.0 8.5 10.0 12.0 11.0 10.5 10.0 15.0 15.0 14.5 14.5 14.5 14.5 11.5 11.5	APRIL 6.5 7.0 6.0 8.0 8.0 9.5 9.5 9.1 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10	7.5 7.5 7.5 8.0 10.0 10.0 10.0 9.5 12.0 11.0 12.5 12.0 12.5 12.0 10.5 10.0	19.0 20.5 21.5 22.0 21.0 19.5 18.5 18.5 18.5 20.0 20.5 20.0 18.0 18.5 16.0 15.0 19.0	12.5 15.0 16.5 17.5 17.5 13.5 13.5 15.0 15.0 16.0 17.0 16.0 14.5 14.0	15.5 17.5 19.0 19.5 19.5 17.0 15.5 16.5 17.0 18.0 18.5 17.5 16.0 16.0 14.5 16.5
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22		FEBRUAR		6.0 7.0 8.0 7.0 4.5 4.5 7.0 6.5 7.0 7.0 8.0 7.0 8.0 7.0 8.0 7.0 8.0 7.0	MARCH 3.5 4.5 6.0 3.5 3.0 2.5 3.5 4.0 4.0 4.0 4.5 5.5 6.0 6.5 5.5 5.0 6.5 6.0	4.55.5 75.55 3.55 5.55 6.00 77.00 77.00 77.00 77.00	8.0 8.5 10.0 12.0 11.0 10.5 10.0 15.0 15.0 14.5 14.5 14.5 14.5 11.5 11.5 11.5 11.5	APRIL 6.5 7.0 6.0 8.0 8.0 9.5 9.5 9.0 12.5 11.0 10.5 10.5 10.5 10.5 10.5 11.0 11.0	7.5 7.5 8.0 10.0 10.0 10.0 10.0 9.5 12.0 13.5 12.0 11.0 12.5 12.0 10.5 10.0 9.5	19.0 20.5 21.5 22.0 21.0 19.5 18.5 18.5 19.5 21.0 20.5 20.0 18.0 18.5 17.5 16.0 17.5	MAY 12.5 15.0 16.5 17.5 17.5 15.5 13.5 13.5 15.0 15.0 16.0 17.0 14.5 14.0 14.5 15.0 14.5 15.0	15.5 17.5 19.0 19.5 19.5 17.0 15.5 16.5 17.0 18.0 18.5 17.5 16.0 16.0 14.5 16.5 16.5
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24		FEBRUAR		6.0 7.0 8.0 7.0 4.5 4.5 7.0 6.5 7.0 7.0 8.0 7.0 8.0 7.5 8.5 8.5	MARCH 3.5 4.5 6.0 3.5 3.0 2.5 3.5 4.0 5.0 4.0 4.0 4.5 5.5 6.0 5.5 6.0 6.5 5.0 6.5 6.0 5.6 6.0	4.5 5.0 5.5 3.5 5.5 6.0 7.0 7.0 7.0 7.0 7.0 7.0	8.0 8.5 10.0 12.0 12.0 11.0 10.5 10.0 15.0 14.5 14.5 13.5 12.5 11.5 12.0 11.0	APRIL 6.5 7.0 6.0 8.0 8.0 9.5 9.5 9.0 12.5 11.0 10.5 10.5 10.5 10.0 11.0 9.5 8.5 7.5 8.5	7.5 7.5 8.0 10.0 10.0 10.0 9.5 12.0 11.0 12.0 12.5 12.0 12.5 12.0 12.5 12.0	19.0 20.5 21.5 22.0 21.0 19.5 18.5 18.5 19.5 21.0 20.5 20.0 18.0 18.5 16.0 15.0 17.5 16.0 17.5	MAY 12.5 15.0 16.5 17.5 17.5 13.5 13.5 13.5 15.0 16.0 17.0 16.0 14.5 14.0 14.5 14.5 15.0 16.0 14.5 15.0	15.5 17.5 19.0 19.5 19.5 17.0 15.5 16.5 17.0 18.0 16.0 16.0 15.0 16.5 16.5 17.0
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23		FEBRUAR		6.0 7.0 8.0 7.0 4.5 4.5 7.0 6.5 7.0 8.0 7.0 8.0 7.0 8.5 9.0 8.5 9.0 8.5	MARCH 3.5 4.5 6.0 3.5 3.0 2.5 3.5 4.0 5.0 4.0 4.5 5.5 6.0 5.5 6.0 6.5 5.0 6.5 6.0 6.5 5.5	4.55.5 75.55 3.55 5.55.00 5.55 5.66.00 77.00 77.00 77.00 77.00 77.00 77.00 77.00	8.0 8.5 10.0 12.0 11.0 10.5 10.0 15.0 15.0 14.5 12.0 14.5 14.5 11.5 11.5 11.5 11.5 12.0 0	APRIL 6.5 7.0 6.0 8.0 8.0 9.5 9.5 9.0 12.5 11.0 10.5 10.5 10.5 10.5 10.5 11.0 11.0	7.5 7.5 7.5 8.0 10.0 10.0 10.0 9.5 12.0 11.0 12.0 12.5 12.0 10.5 10.0 9.5	19.0 20.5 21.5 22.0 21.0 19.5 18.5 18.5 18.5 20.0 20.5 20.0 18.0 17.5 16.0 17.5	MAY 12.5 15.0 16.5 17.5 17.5 13.5 13.5 15.0 16.0 14.5 14.0 14.5 15.0 16.0 14.5 15.5	15.5 17.5 19.0 19.5 19.5 17.0 15.5 16.5 17.0 18.0 18.5 17.5 16.0 16.0 14.5 16.5 16.5
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		FEBRUAR	Y	6.0 7.0 8.0 7.0 4.5 4.5 7.0 6.5 7.0 7.0 8.0 7.0 8.0 7.5 8.5 8.5 8.5	MARCH 3.5 4.5 6.0 3.5 3.0 2.5 3.5 4.0 5.0 4.0 4.0 4.5 5.5 6.0 5.5 6.0 6.5 5.0 6.5 6.0 6.5 6.0 6.5 6.0 6.5 6.0	4.55.055.55.55.55.55.55.05.7.00.00.7	8.0 8.5 10.0 12.0 12.0 11.0 10.5 10.0 15.0 14.5 14.5 14.5 11.5 12.0 11.0 13.5 12.0 11.0	APRIL 6.5 7.0 6.0 8.0 8.0 9.5 9.5 9.0 12.5 11.0 10.5 10.5 10.0 11.0 9.5 8.5 7.5 8.5 11.0 12.5 13.0 10.5	7.5 7.5 8.0 10.0 10.0 10.0 9.5 12.0 11.0 12.0 12.5 12.0 12.5 12.0 12.5 12.0 12.5 12.0	19.0 20.5 21.5 22.0 21.0 19.5 18.5 18.5 19.5 21.0 20.5 20.0 18.0 15.0 15.0 15.0 17.5 16.0 17.5	MAY 12.5 15.0 16.5 17.5 17.5 13.5 13.5 13.5 15.0 16.0 14.5 14.0 14.5 14.5 15.0 16.0 14.5 14.5 15.5 15.5 15.5 17.5	15.5 17.5 19.0 19.5 19.5 17.0 15.5 16.5 17.0 18.0 16.0 15.0 16.5 15.0 15.0 15.0 15.0 16.5
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		FEBRUAR		6.0 7.0 8.0 7.0 4.5 4.5 7.0 6.5 7.0 8.0 7.0 8.0 7.0 8.5 9.0 8.5 9.0 8.5	MARCH 3.5 4.5 6.0 3.5 3.0 2.5 3.5 4.0 4.0 4.5 5.5 6.0 5.5 6.0 5.5 6.0 6.5 6.0 4.5	4.55.50 5.50 5.50 5.50 5.50 5.50 5.50 7.00 7.0	8.0 8.5 10.0 12.0 11.0 10.5 10.0 15.0 14.5 12.5 14.5 11.5 11.5 11.5 11.5 11.0 13.5 12.0 14.5 11.5 11.5 11.5 11.5	APRIL 6.5 7.0 6.0 8.0 8.0 9.5 9.5 9.0 12.5 11.0 10.5 10.5 10.5 10.5 11.0 11.0 9.5 8.5 7.5 8.5 11.0 16.5 13.0	7.5 7.5 7.5 8.0 10.0 10.0 10.0 10.0 9.5 12.0 11.0 12.0 12.5 12.0 12.5 10.5 10.0 9.5 10.0 9.5 12.0	19.0 20.5 21.5 22.0 21.0 19.5 18.5 18.5 19.5 21.0 20.5 20.0 18.0 15.0 17.5 16.0 17.5 16.0 17.5 16.0 17.5	MAY 12.5 15.0 16.5 17.5 17.5 13.5 13.5 13.5 15.0 16.0 14.5 14.0 14.5 15.0 16.0 14.5 15.0 16.0 14.5 15.0 16.0	15.5 17.5 19.0 19.5 19.5 17.0 15.5 16.5 17.0 18.0 16.0 14.5 16.5 15.0 14.5 16.5 15.0 17.0 18.0
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 27 28 29 30		FEBRUAR	Y	6.0 7.0 8.0 7.0 4.5 4.5 7.0 6.5 7.0 7.0 8.0 7.0 8.0 7.5 8.5 9.5 8.5 9.0 8.0 7.5	MARCH 3.5 4.5 6.0 3.5 3.0 2.5 4.0 4.0 4.0 4.5 5.5 6.0 6.5 5.0 6.5 6.0 4.5 6.0 4.5 6.0 5.5 6.0 6.5 6.0 6.5 6.0 6.5 6.0 6.5 6.0 6.5 6.0 6.5 6.0 6.5 6.0 6.5	4.55.055 55.505 5.5000 0.005.005 77.00 77.00 77.00 77.00 77.00 77.00 76.55 66.50	8.0 8.5 10.0 12.0 11.0 10.5 10.0 15.0 15.0 14.5 14.5 14.5 11.5 11.5 11.5 11.5 11.5	APRIL 6.5 7.0 6.0 8.0 8.0 9.5 9.5 9.0 10.5 10.5 10.5 10.5 10.0 11.0 9.5 8.5 7.5 8.5 11.0 12.5 13.0 10.5 11.0 9.5 9.5 9.5	7.5 7.5 7.5 8.0 10.0 10.0 10.0 10.0 12.0 12.0 12.0 12	19.0 20.5 21.5 22.0 21.0 19.5 18.5 18.5 19.5 20.0 20.5 20.0 18.0 15.0 15.0 15.0 15.0 17.5 16.0 17.5 16.0 17.5 19.5	12.5 15.0 16.5 17.5 17.5 13.5 13.5 13.5 15.0 15.0 16.0 17.0 14.5 14.0 14.5 14.5 15.5 15.5 15.5 15.5 15.5 15.0 16.0	15.5 17.5 19.0 19.5 19.5 17.0 15.5 16.5 17.0 18.0 16.0 16.0 15.5 16.5 17.0 16.0 16.5 16.5 17.0 16.5 16.5 17.0
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		FEBRUAR		6.0 7.0 8.0 7.0 4.5 4.5 7.0 6.5 7.0 7.0 8.0 7.0 8.5 8.5 8.5 8.5 9.0 8.5	MARCH 3.5 4.5 6.0 3.5 3.0 2.5 3.5 4.0 5.0 4.0 4.0 4.5 5.5 6.0 5.5 6.0 5.5 6.0 4.5 6.0 4.5 6.0 4.5	4.55.055 5.55.055 5.55.05 5.55.00 7.00 7.	8.0 8.5 10.0 12.0 12.0 11.0 11.5 10.0 15.0 14.5 14.5 14.5 11.5 12.0 11.0 13.5 12.0 11.0 11.0	APRIL 6.5 7.0 6.0 8.0 8.0 9.5 9.5 9.0 9.0 12.5 11.0 10.5 10.5 10.0 11.0 9.5 8.5 7.5 8.5 11.0 12.5 13.0 10.5 11.0 9.5 13.0	7.5 7.5 8.0 10.0 10.0 10.0 10.0 9.5 12.0 11.0 12.5 12.0 12.5 12.0 12.5 12.0 12.5 12.0 13.5	19.0 20.5 21.5 22.0 21.0 19.5 18.5 18.5 19.5 21.0 20.0 18.0 15.0 15.0 15.0 17.5 16.0 16.0 17.5 19.0 17.5	MAY 12.5 15.0 16.5 17.5 17.5 13.5 13.5 13.5 15.0 16.0 14.5 14.0 14.5 14.5 15.5 16.5 17.5	15.5 17.5 19.0 19.5 19.5 17.0 15.5 16.5 17.0 18.0 16.0 15.0 16.5 16.5 16.5 16.5 16.5 16.5 16.5 16.5

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

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBE	R
1	16.5	14.5	15.0	26.5	23.0	24.5	24.5	18.5	21.0	24.5	21.0	23.0
2	17.0	14.5	15.5	24.0	20.0	22.0	25.0	19.0	21.5	22.5	18.5	20.5
3	18.0	16.5	17.0	22.5	18.0	20.5	24.5	20.0	22.0	23.0	17.5	20.0
4	18.5	15.0	17.0	23.0	20.0	21.0	23.5	20.5	22.0	23.0	19.5	21.0
5	20.5	16.5	18.0	23.0	20.5	21.5	24.5	20.5	22.5	23.0	19.0	20.5
6	19.0	18.0	18.5	23.5	19.5	21.0	26.5	22.0	24.0	23.0	17.5	20.0
7	20.5	17.5	18.5	24.0	18.0	20.5	28.0	22.5	25.0	23.0	17.5	20.0
8	20.5	17.0	18.5	22.0	20.5	21.0	28.0	23.0	25.0	23.5	19.0	20.5
9	20.5	16.5	18.5	26.0	20.5	22.5	28.0	23.0	25.0	23.5	19.5	21.5
10	20.5	17.0	18.5	25.0	21.0	23.0	27.0	24.0	25.5	23.5	21.0	22.0
11	22.0	17.5	19.5	25.0	21.0	22.5	25.0	22.0	23.0	23.5	19.5	21.0
12	23.0	19.0	21.0	24.0	19.5	21.5	24.0	22.0	22.5	22.0	17.5	19.5
13	24.5	20.5	22.0	22.5	19.0	20.5	24.0	22.0	22.5	22.5	17.5	19.5
14	23.5	21.5	22.5	23.5	18.5	21.0	25.5	22.0	23.5	20.5	17.0	18.5
15	23.5	21.0	22.0	24.5	18.5	21.0	26.0	22.0	23.5	19.0	15.0	16.5
16	22.5	21.0	21.5	25.5	20.0	22.5	26.0	22.0	23.5	19.5	14.5	16.5
17	23.5	20.5	21.5	26.0	21.0	23.0	25.5	23.0	24.0	20.0	15.0	17.0
18	24.0	20.0	22.0	23.5	22.0	22.5	24.5	21.5	23.0	19.0	15.5	17.0
19	25.0	20.0	22.5	24.5	20.5	22.0	23.5	21.5	22.5	20.5	16.0	18.0
20	25.5	20.5	22.5	25.0	20.0	22.0	26.0	22.0	23.5	19.5	18.5	18.5
21	24.5	21.5	22.5	25.5	19.0	21.5	24.5	21.5	23.0	20.5	18.5	19.5
22	24.0	22.0	22.5	25.5	19.5	22.0	25.5	20.5	22.5	22.5	19.0	20.0
23	24.0	22.0	22.5	26.0	20.5	23.0	23.5	21.0	22.0	22.5	19.0	20.5
24	22.5	20.0	21.5	27.5	22.0	24.0	25.0	21.0	23.0	21.5	19.5	20.5
25	24.5	19.5	21.5	28.0	23.0	25.0	25.5	22.0	23.0	21.0	17.5	19.0
26 27 28 29 30 31	25.0 26.0 26.5 26.5 26.5	20.0 21.0 22.0 22.5 23.0	22.0 23.0 24.0 24.0 24.5	25.5 24.0 23.5 21.0 22.5 23.5	22.0 20.0 19.0 19.0 19.0 18.5	24.0 21.5 21.0 19.5 20.0 20.5	25.0 25.0 25.5 25.5 24.0 25.5	20.0 21.5 21.5 21.0 21.0 21.5	22.0 23.0 23.5 23.0 22.5 23.5	17.5 16.0 15.5 15.5	15.0 14.5 14.0 14.0 14.0	16.0 15.5 15.0 15.0 14.5
MONTH	26.5	14.5	20.7	28.0	18.0	21.9	28.0	18.5	23.1	24.5	14.0	18.9

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			I	DECEMBER		JANUARY			
1 2 3 4 5	10.1 10.1 10.1 10.3 8.5	8.9 8.6 8.2 7.7 7.6	9.4 9.2 9.0 8.8 8.2	12.3 12.5 12.6 12.4 12.4	9.0 8.8 8.5 8.2 8.1	10.1 10.0 10.0 9.7 9.7	 	 		 	 	
6 7 8 9 10	9.8 10.2 10.8 11.1 11.2	8.3 8.8 9.3 9.9	8.9 9.4 10.0 10.4 10.5	12.8 14.7 13.3 12.7	8.7 8.8 8.6 7.9	10.1 10.5 10.4 9.5	 				 	
11 12 13 14 15	11.0 11.3 11.1 11.0 11.3	9.5 9.4 9.3 8.9 8.6	10.2 10.1 10.0 9.8 9.7	 12.4	 9.0	 10.3	 	 	 	 	 	
16 17 18 19 20	10.8 10.1 9.3 10.6 11.0	8.5 8.5 8.5 8.6 8.9	9.3 9.0 8.8 9.5 10.3	12.7 12.3 12.7 12.7 13.0	9.2 9.0 9.1 9.3 9.8	10.5 10.1 10.5 10.6 10.9	 	 	 	 	 	
21 22 23 24 25	10.5 10.5 11.4 11.8	8.6 8.6 8.9 9.1 8.8	9.5 9.4 9.8 10.2 9.8	13.2 13.9 13.7 13.8 13.7	9.7 10.2 10.8 10.7	11.0 11.6 11.8 11.7						
26 27 28 29 30 31	11.6 12.3 11.4 11.9 12.2 12.2	8.5 8.4 8.3 8.5 9.0 9.1	9.5 9.8 9.3 9.9 10.1 10.1	12.2 12.2 11.8	9.9 10.1 10.2	10.5 10.9 10.8	 	 	 	 	 	
MONTH	12.3	7.6	9.6	14.7	7.9	10.6						

01480870 EAST BRANCH BRANDYWINE CREEK BELOW DOWNINGTOWN, 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 2 3				14.6 14.3 14.6	11.1 10.7 10.5	12.5 12.2 12.1	12.0 12.1 12.3	10.7 10.7 10.3	11.2 11.2 11.3	12.0 11.7 11.1	6.9 6.6 6.3	9.1 8.6 8.2
4 5				13.2 14.9	10.4	11.6 12.7	12.3 12.7	9.7	11.0	10.8	6.1	7.9 7.5
6 7 8				15.4 15.5 15.0	11.4 10.8 10.7	12.9 12.6 12.5	12.2 12.7	9.6 9.9 10.2	10.7 10.9 11.2	10.6 10.7 11.3	6.8 7.3 7.1	8.4 8.8 9.0
9 10				14.8 15.4	10.7 10.8	12.3 12.6	12.8 12.7	8.4	10.8 10.1	10.8 10.5	7.5 7.4	8.8 8.7
11 12 13				15.7 16.0 11.4	10.7 10.3 10.2	12.7 12.6 10.9	11.4 12.0 12.4	8.9 9.8 9.3	9.9 10.6 10.6	10.5 10.0 10.4	7.1 7.1 7.3	8.5 8.3 8.6
14 15				13.6 14.4	10.4	11.6 11.9	12.8	9.3	10.7	10.6	7.9 8.0	9.0 9.1
16 17				14.0 11.8	10.4	11.6 11.1	13.4	9.2 9.7	10.4 11.3	10.6 10.2	8.0	9.1 9.1
18 19 20				13.7 14.3 14.4	10.6 10.4 10.2	11.8 11.9 11.9	13.1 13.7 13.6	10.2 9.8 9.5	11.3 11.6 11.4	9.7 10.3 9.9	8.6 8.0 7.9	9.0 9.1 8.8
21 22				12.0 11.3	10.1	10.9	13.9 14.5	8.8	10.8 10.6	9.0	8.4	8.7
23 24 25				12.6 12.8 13.5	10.3 10.2 10.6	11.2 11.2 11.7	14.0 12.9 13.2	6.8 6.6 6.9	9.8 8.9 9.8	9.4 9.4 9.5	8.2 8.0 7.9	8.8 8.6 8.6
26 27 28	13.9 14.1	10.9 10.8	12.3 12.1	14.1 14.1 14.4	10.2 10.4 9.9	11.8 12.1 12.0	13.1 12.6 12.0	8.3 7.9 7.9	10.3 9.9 9.8	9.1 9.1 9.5	8.2 8.5 8.7	8.6 8.9 9.1
29 30 31				14.2 11.4 11.8	10.4 10.7 10.8	12.0 11.2 11.4	12.2 11.9	8.7 7.8 	10.1 9.9	9.7 9.3 10.0	8.7 8.6 8.6	9.2 8.9 9.3
MONTH	14.1	10.8	12.2	16.0	9.9	11.9	14.5	6.6	10.6	12.0	6.1	8.7
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
DAY	MAX	MIN JUNE	MEAN	MAX	MIN JULY	MEAN	MAX	MIN AUGUST	MEAN		MIN S EPTEMBE	
1 2 3 4	9.9 9.6 9.4 9.8	JUNE 8.7 8.6 8.4 8.4	9.4 9.1 8.9 9.1	10.0 10.1 10.3 9.1	JULY 6.1 6.1 6.7 6.2	7.5 7.7 8.1 7.4	11.9 11.7 12.9 11.5	6.6 6.7 6.5 6.3	8.5 8.6 8.9 8.1	11.9 12.2 12.4 12.4	5.7 6.2 6.7 6.3	8.0 8.6 8.8 8.6
1 2 3 4 5	9.9 9.6 9.4 9.8 9.9	3.7 8.6 8.4 8.4 7.9	9.4 9.1 8.9 9.1 8.7	10.0 10.1 10.3 9.1 9.2	6.1 6.1 6.7 6.2 6.1	7.5 7.7 8.1 7.4 7.4	11.9 11.7 12.9 11.5 9.8	6.6 6.7 6.5 6.3 6.5	8.5 8.6 8.9 8.1 7.9	11.9 12.2 12.4 12.4 11.8	5.7 6.2 6.7 6.3 6.0	8.0 8.6 8.8 8.6 8.1
1 2 3 4 5	9.9 9.6 9.4 9.8 9.9	3.7 8.6 8.4 8.4 7.9 7.8 7.8	9.4 9.1 8.9 9.1 8.7	10.0 10.1 10.3 9.1 9.2	501 6.1 6.7 6.2 6.1	7.5 7.7 8.1 7.4 7.4	11.9 11.7 12.9 11.5 9.8	6.6 6.7 6.5 6.3 6.5	8.5 8.6 8.9 8.1 7.9	11.9 12.2 12.4 12.4 11.8	5.7 6.2 6.7 6.3 6.0	8.0 8.6 8.8 8.6 8.1
1 2 3 4 5 6 7 8 9 10	9.9 9.6 9.4 9.9 9.5 9.64 9.66 10.2	3.7 8.6 8.4 8.4 7.9 7.8 7.6 7.6 7.6	9.4 9.1 8.9 9.1 8.7 8.6 8.5 8.4 8.5 8.3 7.7	10.0 10.1 10.3 9.1 9.2 9.5 9.7 9.0 9.6 9.2	6.1 6.1 6.7 6.2 6.1 6.1 6.4 6.3 5.9 5.4	7.5 7.7 8.1 7.4 7.4 7.5 7.7 7.4 6.8	11.9 11.7 12.9 11.5 9.8 11.1 10.9 11.2 11.1 11.0	6.6 6.7 6.5 6.3 6.5 5.9 5.8 5.7 5.6 5.3	8.5 8.6 8.9 8.1 7.9 8.0 7.6 7.7 7.1 6.3 6.9	11.9 12.2 12.4 12.4 11.8 12.7 10.8 11.7 10.4 10.9	5.7 6.2 6.7 6.3 6.0 6.5 6.0 5.4 5.4 5.7	8.0 8.6 8.8 8.6 8.1 7.5 7.4 7.3
1 2 3 4 5 6 7 8 9 10	9.9 9.6 9.4 9.8 9.9 9.5 9.6 9.4 9.6	3.7 8.6 8.4 8.4 7.9 7.8 7.6 7.6 7.6	9.4 9.1 8.9 9.1 8.7 8.6 8.5 8.4 8.4 8.5	10.0 10.1 10.3 9.1 9.2 9.5 9.7 9.0 9.6 9.2	JULY 6.1 6.7 6.2 6.1 6.1 6.5 5.9	7.5 7.7 8.1 7.4 7.4 7.5 7.7 7.4 7.4 6.8	11.9 11.7 12.9 11.5 9.8 11.1 10.9 11.2 11.1 11.0	6.6 6.7 6.5 6.3 6.5 5.9 5.8 5.7 5.6 5.3	8.5 8.6 8.9 8.1 7.9 8.0 7.6 7.7 7.7	11.9 12.2 12.4 12.4 11.8 12.7 10.8 11.7 10.4 10.8	5.7 6.2 6.7 6.3 6.0 6.5 6.0 5.4 5.3 5.4	8.0 8.6 8.8 8.6 8.1 7.5 7.4 7.3
1 2 3 4 5 6 7 8 9 10 11 12 13 14	9.9 9.6 9.4 9.8 9.9 9.5 9.6 9.4 9.6 10.2 9.7 9.4 9.8	3.7 8.6 8.4 8.4 7.9 7.8 7.6 7.6 7.6 7.6	9.4 9.1 8.9 9.1 8.7 8.6 8.5 8.4 8.4 8.5	10.0 10.1 10.3 9.1 9.2 9.5 9.7 9.0 9.6 9.2	JULY 6.1 6.1 6.7 6.2 6.1 6.1 6.4 6.3 5.9 5.4 5.9 6.2 6.0 6.6	7.5 7.7 8.1 7.4 7.4 7.5 7.7 7.4 6.8 7.1 7.4 7.5 7.9	11.9 11.7 12.9 11.5 9.8 11.1 10.9 11.2 11.1 11.0 7.2 8.3 7.1 7.5	6.6 6.7 6.5 6.3 6.5 5.9 5.8 5.7 5.6 5.3	8.5 8.6 8.1 7.9 8.0 7.7 7.7 7.1 6.9 6.9	11.9 12.2 12.4 12.4 11.8 12.7 10.8 11.7 10.4 10.8	5.7 6.2 6.3 6.0 6.5 6.0 5.4 5.3 5.4	8.0 8.6 8.8 8.6 8.1 8.6 7.5 7.4 7.3
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	9.9 9.4 9.8 9.9 9.6 9.6 9.6 9.4 9.9 8.9 8.6 8.8 9.3 9.3	JUNE 8.7 8.6 8.4 7.9 7.8 7.6 7.6 7.6 6.5 6.3 6.9 6.8 6.6 6.6	9.4 9.1 8.9 9.1 8.6 8.5 8.4 8.5 8.3 7.7 7.4 7.5 7.5 7.6 7.6	10.0 10.1 10.3 9.1 9.2 9.5 9.7 9.0 9.6 9.2 8.9 9.2 9.1 9.7 9.4 10.4 10.5 9.0	JULY 6.1 6.1 6.2 6.1 6.4 6.3 5.4 5.9 6.2 6.6 6.5 6.4 6.2 6.6 6.7 6.8	7.5 7.7 8.1 7.4 7.4 7.5 7.7 7.4 6.8 7.1 7.4 7.5 7.6 7.8 7.8 7.3 8.0 8.0	11.9 11.7 12.9 11.5 9.8 11.1 10.9 11.2 11.1 11.0 7.2 8.3 7.1 7.5 8.7 9.4 10.1 9.9 10.8	6.6 6.7 6.3 6.5 5.8 5.7 5.3 5.6 5.3 6.4 6.4 6.3 6.3 6.5	8.56 8.9 8.19 8.67 7.77 7.1 39 7.66.9 7.55 8.8 7.8 7.8	11.9 12.2 12.4 12.4 11.8 12.7 10.8 11.7 10.4 10.5 10.5 10.6 9.0 10.9 11.4 12.0 12.1 11.2 8.6 8.8 9.2	5.7 6.2 6.7 6.3 6.0 6.5 6.0 5.4 5.7 5.6 6.9 6.5 6.9 6.9 6.4 6.1	8.0 8.6 8.8 8.6 8.1 7.4 7.3 7.5 7.8 7.8 7.8 9.0 8.3 8.9 9.0 8.4 7.3
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	9.9 9.4 9.8 9.9 9.5 9.4 9.6 10.2 9.7 9.4 9.9 8.9 8.6 8.6 8.1 9.3 9.3	3.7 8.7 8.4 8.4 7.9 7.8 7.6 7.6 7.6 7.6 6.5 6.3 6.9 6.7 6.6	9.4 9.1 8.9 9.1 8.7 8.6 8.5 8.4 8.4 8.5 7.7 7.6 7.4 7.5 7.6 7.6 7.6	10.0 10.1 10.3 9.1 9.2 9.5 9.7 9.0 9.6 9.2 8.9 9.2 9.1 9.7 9.4	JULY 6.1 6.1 6.7 6.2 6.1 6.1 6.3 5.9 5.4 5.9 6.0 6.6 6.5 6.4 6.2 6.6 6.4 6.7	7.5 7.7 8.1 7.4 7.4 7.5 7.7 7.4 6.8 7.1 7.4 7.5 7.9 7.6 7.8 7.8 7.3 8.0 8.0	11.9 11.7 12.9 11.5 9.8 11.1 10.9 11.2 11.1 11.0 7.2 8.3 7.1 7.5 8.7 9.2 9.4 10.1 9.9 10.8	6.6 6.7 6.3 6.5 5.9 5.8 5.6 5.3 6.4 6.4 6.4 6.4 6.4 6.3 6.3 5.6	8.5 8.9 8.1 7.9 8.0 7.7 7.7 7.1 6.9 7.6 7.5 8.8 7.8 7.6	11.9 12.2 12.4 12.4 11.8 12.7 10.8 11.7 10.4 10.8 10.9 10.5 10.6 9.0 10.9 11.4 12.0 12.1 11.2 8.6	5.7 6.27 6.3 6.0 6.5 6.0 5.4 5.3 5.4 5.7 5.6 6.2 5.9 6.3 6.3	8.0 8.6 8.8 8.6 8.1 8.6 8.1 7.5 7.4 7.3 7.5 7.8 7.8 7.3 8.0 8.3 8.9 9.0 8.4 7.3
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	9.96 9.4 9.8 9.9 9.64 9.62 9.40 9.9 8.9 8.68 9.3 9.42 9.42 9.6	JUNE 8.7 8.4 8.4 7.9 7.8 7.66 7.6 7.6 6.5 6.3 6.9 6.6 6.6 6.6 6.7 6.9	9.4 9.1 8.9 9.1 8.7 8.6 8.5 8.4 8.4 8.5 7.7 7.6 7.5 7.6 7.6 7.6 7.6 7.6	10.0 10.1 10.3 9.1 9.2 9.5 9.7 9.0 9.6 9.2 8.9 9.2 9.1 9.7 9.4 10.4 10.5 9.0 10.1 10.3	JULY 6.1 6.1 6.7 6.2 6.1 6.4 6.3 5.4 5.9 6.0 6.6 6.5 6.4 6.2 6.6 6.7 6.8 6.7 6.8 6.7	7.5 7.7 8.1 7.4 7.4 7.5 7.7 7.4 6.8 7.1 7.4 7.5 7.9 7.6 7.8 8.0 8.0 8.2 8.3 8.0 7.3	11.9 11.7 12.9 11.5 9.8 11.1 10.9 11.2 11.1 11.0 7.2 8.3 7.1 7.5 8.7 9.2 9.4 10.1 9.9 10.8	6.67 6.57 6.3 6.5 5.9 5.87 5.63 5.6 5.6 6.4 6.4 6.4 6.4 6.4 6.3 6.5 5.9 6.5	8.56 8.9 8.17 7.77 7.1 6.97 6.67 7.58 7.88 7.88 7.9	11.9 12.2 12.4 12.4 11.8 12.7 10.8 11.7 10.4 10.8 10.9 10.6 9.0 10.9 11.4 12.0 12.1 11.2 8.6 8.8 9.2 9.8 9.7	5.7 6.2 6.3 6.0 6.5 6.0 5.4 5.3 5.4 5.7 5.6 6.3 6.5 6.6 6.5 6.6 6.5 6.6 6.3	8.0 8.6 8.8 8.6 8.1 8.6 8.1 7.5 7.4 7.3 7.5 7.8 7.8 7.3 8.0 8.3 8.9 9.0 8.3 7.7 7.6