01571774 LORBERRY CREEK, SITE E2-0, AT LORBERRY, PA (Swatara Creek Project)

LOCATION.--Lat 40°35'32", long 76°26'22", Schuylkill County, Hydrologic Unit 02050301, on left bank 350 ft downstream from Rowe Drainage Tunnel. Located on Schuylkill County property.

DRAINAGE AREA.--1.15 mi².

PERIOD OF RECORD.--November 1997 to current year.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: April 1999 to current year. pH: April 1999 to current year. WATER TEMPERATURE: April 1999 to current year.

INSTRUMENTATION .-- Water-quality monitor (in situ system).

REMARKS.--Interruptions in the record were due to malfunctions of the instrumentation. Some values for "*dissolved*" parameters exceed values for the corresponding "*total*" parameter. These results are within the limits of analytical precision and methods. Instantaneous discharge data provided by the Pottsville Mining office of the Pennsylvania Department of Environmental Protection. Other data for this project presented in tables on pages 342-386. Figure 8 shows the location of sites sampled as part of the Swatara Creek Project. Abbreviations used: E, estimated.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

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 (PER- CENT SATUR- ATION) (00301)	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)
MAR 1999										
17 APR	1330	9813	1028	7.5	100	15.0	6.4	179	3.5	10
12 MAY	1415	9813	1028	6.6	120	13.0	5.9	273	12.0	12
25	1245	9813	1028	4.8	94	10.0	6.3	279	12.0	15
JUN 30	1430	9813	1028		97	10.0	6.6	241	12.5	16
JUL 14	0945	9813	1028	2.1		11.0	6.6	264	12.5	13
AUG 13	1545	9813	1028	2.9	85	8.8	5.0	462	13.5	30
SEP 16	1545	9813	1028	6.4	73	7.4	5.2	234	14.5	12

DATE	CALCIUM TOTAL RECOV- ERABLE (MG/L AS CA) (00916)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG) (00925)	MAGNE- SIUM, TOTAL RECOV- ERABLE (MG/L AS MG) (00927)	POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935)	POTAS- SIUM, TOTAL RECOV- ERABLE (MG/L AS K) (00937)	SODIUM, DIS- SOLVED (MG/L AS NA) (00930)	SODIUM, TOTAL RECOV- ERABLE (MG/L AS NA) (00929)	ACIDITY TOTAL HEATED (MG/L AS CAC03) (70508)	ANC WATER UNFLTRD FET LAB MG/L AS CACO3 (00417)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)
MAR 1999										
17	11	16	17			3.2	3.2	.00	13	
APR 12	22	18	20			3.8	3.8	.80	7	
MAY	22	10	20			5.0	5.0	.00	1	
25	15	22	22			3.2	3.4	14	5	
JUN 30	20	20	20			3.2	3.2	13	22	
JUL	20	20	20			5.2	5.2	13	22	
14	22	15	16			3.3	3.3	.00	22	
AUG	~ 4	2.0	2.4						2	
13 SEP	34	32	34			5.3	5.3	14	3	
16	20	18	19	2.5	2.6	2.7	2.9	7.8	4	2.2

01571774 LORBERRY CREEK, SITE E2-0, AT LORBERRY, PA--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

DATE	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	OXID- ATION RED- UCTION POTEN- TIAL (MV) (00090)	RESIDUE TOTAL AT 105 DEG. C, SUS- PENDED (MG/L) (00530)	ALUM- INUM, DIS- SOLVED (µG/L AS AL) (01106)	ALUM- INUM, TOTAL RECOV- ERABLE (µG/L AS AL) (01105)	IRON, DIS- SOLVED (µG/L AS FE) (01046)	$\begin{array}{c} \text{IRON,} \\ \text{TOTAL} \\ \text{RECOV-} \\ \text{ERABLE} \\ (\mu\text{G/L} \\ \text{AS FE}) \\ (01045) \end{array}$	$\begin{array}{c} \text{MANGA-} \\ \text{NESE}, \\ \text{DIS-} \\ \text{SOLVED} \\ (\mu\text{G/L} \\ \text{AS MN}) \\ (01056) \end{array}$	$\begin{array}{l} \text{MANGA-} \\ \text{NESE,} \\ \text{TOTAL} \\ \text{RECOV-} \\ \text{ERABLE} \\ (\mu G/L \\ \text{AS } MN) \\ (01055) \end{array}$
MAR 1999 17	87	582	22	<200	710	7100	7800	1600	1600
APR 12 MAY	120	438	30	<200	1400	5200	10000	1900	2000
25	130	305	10	240	1200	9800	9800	2700	2700
JUN 30	100	173	26	<200	790	7400	9200	1800	1900
JUL 14	95	145		<200	940	7200	12000	1800	1800
AUG 13	230	398	10	830	1400	4900	7500	3100	3100
SEP 16	110	364	190	340	3700	3600	15000	1200	1600

01571774 LORBERRY CREEK, SITE E2-0, AT LORBERRY, PA--Continued

SPECIFIC CONDUCTANCE, MICROSIEMENS PER CENTIMETER AT 25° CELSIUS, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	1	FEBRUARY	r		MARCH			APRIL			MAY	
1							288	240	277	239	236	238
2							240	234	235	287	237	247
3							236	234	235	316	240	293
4 5							237 285	233 236	235 267	241 241	238 238	239 239
6							298	236	284	241	239	240
7							238	236	237	317	239	283
8 9							239 301	235 238	236 282	320 249	246 247	293 248
10							297	237	248	249	246	248
11							242	232	238	335	248	304
12							301	236	267	328	246	262
13							321	244	273	248	246	247
14 15							244 275	239 233	241 244	318 341	246 250	265 307
16 17							297 235	235 232	280 233	251 249	247 247	249 248
18							233	230	231	333	248	296
19							295	230	272	334	250	278
20							292	228	242	255	252	254
21							230	228	229	308	250	258
22							286	225	248	346	260	326
23							297	228	266	260	252	255
24 25							232 268	229 229	231 234	258 318	246 257	253 282
26							299	238	287	333	241	284
27 28							238 234	231 230	233 232	252 245	240 242	242 243
29							303	231	267	339	243	315
30							314	236	266	332	244	254
31										249	245	247
MONTH							321	225	252	346	236	266
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 EPTEMBE	
		JUNE			JULY			AUGUST		S	EPTEMBE	R
1	327	JUNE 247	268	264	JULY 257	261	430	AUGUST 250	298	s 281	EPTEMBE 269	276
1 2 3		JUNE			JULY			AUGUST		S	EPTEMBE	R
1 2 3 4	327 350 251 252	JUNE 247 247 249 249 247	268 312 250 249	264 399 328 263	JULY 257 262 259 259	261 371 265 261	430 255 254 407	AUGUST 250 249 247 248	298 252 251 318	281 272 385 429	269 267 266 294	276 270 301 371
1 2 3	327 350 251	JUNE 247 247 249	268 312 250	264 399 328	JULY 257 262 259	261 371 265	430 255 254	AUGUST 250 249 247	298 252 251	281 272 385	EPTEMBE 269 267 266	276 270 301
1 2 3 4 5 6	327 350 251 252 346 357	JUNE 247 247 249 247 248 248	268 312 250 249 298 287	264 399 328 263 342 406	JULY 257 262 259 259 260 272	261 371 265 261 268 375	430 255 254 407 432 264	AUGUST 250 249 247 248 253 253	298 252 251 318 333 256	8 281 272 385 429 294 281	269 267 266 294 191 200	276 270 301 371 259 243
1 2 3 4 5 6 7	327 350 251 252 346 357 250	JUNE 247 247 249 247 248 248 248 246	268 312 250 249 298 287 248	264 399 328 263 342 406 272	JULY 257 262 259 259 260 272 261	261 371 265 261 268 375 265	430 255 254 407 432 264 258	AUGUST 250 249 247 248 253 253 252	298 252 251 318 333 256 255	8 281 272 385 429 294 294 281 586	269 267 266 294 191 200 205	276 270 301 371 259 243 354
1 2 3 4 5 6 7 8	327 350 251 252 346 357 250 252	JUNE 247 249 247 248 248 248 246 246 246	268 312 250 249 298 287 287 248 248	264 399 328 263 342 406 272 271	JULY 257 262 259 260 272 261 262	261 371 265 261 268 375 265 265	430 255 254 407 432 264 258 399	AUGUST 250 249 247 248 253 253 252 250	298 252 251 318 333 256 255 293	281 272 385 429 294 281 586 605	269 267 266 294 191 200 205 434	276 270 301 371 259 243 354 563
1 2 3 4 5 6 7	327 350 251 252 346 357 250	JUNE 247 247 249 247 248 248 248 246	268 312 250 249 298 287 248	264 399 328 263 342 406 272	JULY 257 262 259 259 260 272 261	261 371 265 261 268 375 265	430 255 254 407 432 264 258	AUGUST 250 249 247 248 253 253 252	298 252 251 318 333 256 255	8 281 272 385 429 294 294 281 586	269 267 266 294 191 200 205	276 270 301 371 259 243 354
1 2 3 4 5 6 7 8 9 10	327 350 251 252 346 357 250 252 375 354	JUNE 247 249 247 248 248 248 246 246 252 255	268 312 250 249 298 287 248 248 248 340 262	264 399 328 263 342 406 272 271 321 330	JULY 257 262 259 260 272 261 262 262 262 262	261 371 265 261 268 375 265 264 272 282	430 255 254 407 432 264 258 399 451 260	AUGUST 250 249 247 248 253 253 252 250 258 253	298 252 251 318 333 256 255 293 373 257	281 272 385 429 294 281 586 605 434 396	269 267 266 294 191 200 205 434 389 376	276 270 301 371 259 243 354 563 412 387
1 2 3 4 5 6 7 8 9	327 350 251 252 346 357 250 252 375 354 255	JUNE 247 249 247 248 248 248 246 252 255 250	268 312 250 249 298 287 248 248 340 262 253	264 399 328 263 342 406 272 271 321 330 392	JULY 257 262 259 260 272 261 262 262 261 262 261 282	261 371 265 261 268 375 265 264 272 282 359	430 255 254 407 432 264 258 399 451 260 257	AUGUST 250 249 247 248 253 253 253 250 258 253 253 253	298 252 251 318 333 256 255 293 373 257 256	281 272 385 429 294 281 586 605 434 396 385	269 267 266 294 191 200 205 434 389 376 372	276 270 301 371 259 243 354 563 412 387 381
1 2 3 4 5 6 7 8 9 10 11	327 350 251 252 346 357 250 252 375 354	JUNE 247 249 247 248 248 248 246 246 252 255	268 312 250 249 298 287 248 248 248 340 262	264 399 328 263 342 406 272 271 321 330	JULY 257 262 259 260 272 261 262 262 262 262	261 371 265 261 268 375 265 264 272 282	430 255 254 407 432 264 258 399 451 260	AUGUST 250 249 247 248 253 253 252 250 258 253	298 252 251 318 333 256 255 293 373 257	281 272 385 429 294 281 586 605 434 396	269 267 266 294 191 200 205 434 389 376	276 270 301 371 259 243 354 563 412 387
1 2 3 4 5 6 7 8 9 10 11 12 13 14	327 350 251 252 346 357 250 252 375 354 255 331 365 254	JUNE 247 247 249 247 248 248 246 252 255 250 251 253 210	268 312 250 249 298 287 248 340 262 253 268 328 250	264 399 328 263 342 406 272 271 321 330 392 282 261 341	JULY 257 262 259 260 272 261 262 262 262 261 282 259 246 246	261 371 265 261 268 375 265 264 272 282 359 265 255 262	430 255 254 407 432 264 258 399 451 260 257 365 480 659	AUGUST 250 249 247 248 253 253 252 250 258 253 253 253 253 253 253 253 253	298 252 251 318 333 256 255 293 373 257 256 265 395 544	281 272 385 429 294 281 586 605 434 396 385 563 555 352	269 267 266 294 191 200 205 434 389 376 372 371 348 335	276 270 301 371 259 243 354 563 412 387 381 489 396 346
1 2 3 4 5 6 7 8 9 10 11 12 13	327 350 251 252 346 357 250 252 375 354 255 331 365	JUNE 247 249 249 248 248 248 246 246 252 255 255 250 251 253	268 312 250 249 298 287 248 248 248 248 340 262 253 268 328	264 399 328 263 342 406 272 271 321 330 392 282 261	JULY 257 262 259 260 272 261 262 261 282 261 282 259 246	261 371 265 261 268 375 265 264 272 282 359 265 255	430 255 254 407 432 264 258 399 451 260 257 365 480	AUGUST 250 249 247 248 253 253 252 250 258 253 253 253 253 253 253 253 253	298 252 251 318 333 256 255 293 373 257 256 265 395	281 272 385 429 294 281 586 605 434 396 385 563 555	EPTEMBE 269 267 266 294 191 200 205 434 389 376 372 371 348	276 270 301 371 259 243 354 563 412 387 387 381 489 396
1 2 3 4 5 6 7 8 9 10 11 12 13 14	327 350 251 252 346 357 250 252 375 354 255 331 365 254	JUNE 247 247 249 247 248 248 246 252 255 250 251 253 210	268 312 250 249 298 287 248 340 262 253 268 328 250	264 399 328 263 342 406 272 271 321 330 392 282 261 341	JULY 257 262 259 260 272 261 262 262 262 261 282 259 246 246	261 371 265 261 268 375 265 264 272 282 359 265 262 356 262 356 249	430 255 254 407 432 264 258 399 451 260 257 365 480 659	AUGUST 250 249 247 248 253 253 252 250 258 253 253 253 253 253 253 253 253	298 252 251 318 333 256 255 293 373 257 256 265 395 544	281 272 385 429 294 281 586 605 434 396 385 563 555 352 535 352 535	269 267 266 294 191 200 205 434 389 376 372 371 348 335	276 270 301 371 259 243 354 563 412 387 381 489 396 346
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	327 350 251 252 346 357 250 252 375 354 255 331 365 254 261 349 377	JUNE 247 249 2447 248 248 248 246 246 252 255 250 251 253 210 251 255 236	268 312 250 249 298 287 248 340 262 253 268 328 250 256 290 310	264 399 328 263 342 406 272 271 321 330 392 282 261 341 398 251 251	JULY 257 262 259 260 272 261 262 262 261 282 259 246 251 246 251	261 371 265 261 268 375 265 264 272 282 359 265 255 265 255 262 356 249 248	430 255 254 407 432 264 258 399 451 260 257 365 480 659 480 410 476	AUGUST 250 249 247 248 253 253 252 250 258 253 253 253 253 254 179 410 348 343	298 252 251 318 333 256 255 293 373 257 256 265 395 544 451 381 426	281 272 385 429 294 281 586 605 434 396 385 563 555 352 535 535 690 924	269 267 266 294 191 200 205 434 389 376 372 371 348 336 183 690	276 270 301 371 259 243 354 563 412 387 381 489 396 346 414 410 781
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	327 350 251 252 346 357 250 252 375 354 255 331 365 254 261 349 377 291	JUNE 247 249 247 248 248 246 246 246 252 255 250 251 253 210 251 255 250 251	268 312 250 249 298 287 248 248 248 340 262 253 268 328 250 256 290 310 278	264 399 328 263 342 406 272 271 321 330 392 282 261 341 398 251 251 343	JULY 257 262 259 260 272 261 262 261 282 262 261 282 259 246 246 251 246 251	261 371 265 261 268 375 265 264 272 282 359 265 255 262 356 249 249 248 257	430 255 254 407 432 264 258 399 451 260 257 365 480 659 480 410 476 473	AUGUST 250 249 247 248 253 252 250 258 253 253 255 253 256 84 179 410 348 343 328	298 252 251 318 333 256 255 293 373 257 256 265 395 544 451 381 426 358	281 272 385 429 294 281 586 605 434 396 385 563 555 352 535 690 924 828	EPTEMBE 269 267 266 294 191 200 205 434 389 376 372 371 348 335 336 183 690 809	276 270 301 371 259 243 354 563 412 387 381 489 396 346 414 410 781 822
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	327 350 251 252 346 357 250 252 375 354 255 331 365 254 261 349 377	JUNE 247 249 2447 248 248 248 246 246 252 255 250 251 253 210 251 255 236	268 312 250 249 298 287 248 340 262 253 268 328 250 256 290 310	264 399 328 263 342 406 272 271 321 330 392 282 261 341 398 251 251	JULY 257 262 259 260 272 261 262 262 261 282 259 246 251 246 251	261 371 265 261 268 375 265 264 272 282 359 265 255 265 255 262 356 249 248	430 255 254 407 432 264 258 399 451 260 257 365 480 659 480 410 476	AUGUST 250 249 247 248 253 253 252 250 258 253 253 253 253 254 179 410 348 343	298 252 251 318 333 256 255 293 373 257 256 265 395 544 451 381 426	281 272 385 429 294 281 586 605 434 396 385 563 555 352 535 535 690 924	269 267 266 294 191 200 205 434 389 376 372 371 348 336 183 690	276 270 301 371 259 243 354 563 412 387 381 489 396 346 414 410 781
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	327 350 251 252 346 357 250 252 375 354 255 331 365 254 261 349 377 291 277 369	JUNE 247 249 2447 248 248 246 246 246 252 255 250 251 253 210 251 255 236 250 268	268 312 250 249 298 287 248 248 340 262 253 268 328 250 256 290 310 278 274 322	264 399 328 263 342 406 272 271 330 392 282 261 341 398 251 251 343 432 257	JULY 257 262 259 260 272 261 262 261 282 261 282 259 246 246 251 246 244 243 257 245	261 371 265 261 268 375 265 264 272 282 359 265 255 262 356 249 248 257 366 251	430 255 254 407 432 264 258 399 451 260 257 365 480 459 480 410 476 473 332 324	AUGUST 250 249 247 248 253 252 250 258 253 253 253 253 256 84 179 410 348 343 328 319 291	298 252 251 318 333 256 255 293 373 257 256 265 395 544 451 381 426 358 328 318	281 272 385 429 294 281 586 605 434 396 385 563 555 352 535 690 924 828 821 821	EPTEMBE 269 267 266 294 191 200 205 434 389 376 371 348 335 371 348 335 336 183 690 809 806 671	276 270 301 371 259 243 354 563 412 387 381 489 396 346 414 410 781 822 817 785
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	327 350 251 252 346 357 250 252 375 354 255 331 365 254 261 349 377 291 349 377 291 369 383	JUNE 247 247 247 248 248 248 246 252 255 250 251 253 210 251 255 236 250 269 268 263	268 312 250 249 298 287 248 248 340 262 253 268 326 250 256 290 310 276 274 322 305	264 399 328 263 342 406 272 271 321 330 392 282 261 341 398 251 251 251 343 432 257 248	JULY 257 262 259 260 272 261 262 262 261 282 259 246 246 251 246 244 243 257 245 241	261 371 265 261 268 375 265 264 272 282 359 265 255 262 356 249 248 257 366 251 246	430 255 254 407 432 264 258 399 451 260 257 365 480 659 480 410 476 473 332 324 438	AUGUST 250 249 247 248 253 253 252 250 258 253 253 253 256 84 179 410 348 343 328 319 291 314	298 252 251 318 333 256 255 293 373 257 256 265 395 544 451 381 426 358 328 318 328 318	281 272 385 429 294 281 586 605 434 396 385 563 555 352 535 690 924 828 821 821 821	EPTEMBE 269 266 294 191 200 205 434 389 376 371 348 335 336 183 690 806 671 600	276 270 301 371 259 243 354 563 412 387 381 489 396 346 414 410 781 822 817 785 703
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	327 350 251 252 346 357 250 252 375 354 255 331 365 254 261 349 377 291 277 369	JUNE 247 249 2447 248 248 246 246 246 252 255 250 251 253 210 251 255 236 250 268	268 312 250 249 298 287 248 248 340 262 253 268 328 250 256 290 310 278 274 322	264 399 328 263 342 406 272 271 330 392 282 261 341 398 251 251 343 432 257	JULY 257 262 259 260 272 261 262 261 282 261 282 259 246 246 251 246 244 243 257 245	261 371 265 261 268 375 265 264 272 282 359 265 255 262 356 249 248 257 366 251	430 255 254 407 432 264 258 399 451 260 257 365 480 459 480 410 476 473 332 324	AUGUST 250 249 247 248 253 252 250 258 253 253 253 253 256 84 179 410 348 343 328 319 291	298 252 251 318 333 256 255 293 373 257 256 265 395 544 451 381 426 358 328 318	281 272 385 429 294 281 586 605 434 396 385 563 555 352 535 690 924 828 821 821	EPTEMBE 269 267 266 294 191 200 205 434 389 376 371 348 335 371 348 335 336 183 690 809 806 671	276 270 301 371 259 243 354 563 412 387 381 489 396 346 414 410 781 822 817 785 703 693
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	327 350 251 252 346 357 250 252 375 354 255 331 365 254 261 349 377 291 277 369 383 267 264 387	JUNE 247 247 247 248 248 248 246 252 255 250 251 253 210 251 255 236 250 269 268 263 261 260 261	268 312 250 249 298 287 248 248 340 262 253 268 326 250 256 290 310 278 274 322 305 264 262 337	264 399 328 263 342 406 272 271 321 330 392 282 261 341 398 251 251 251 343 432 257 248 311 413 269	JULY 257 262 259 260 272 261 262 262 261 282 259 246 246 251 246 244 243 257 245 241 239 269 243	261 371 265 261 268 375 265 264 272 282 359 265 262 356 249 248 257 366 251 246 251 246 243 379 249	430 255 254 407 432 264 258 399 451 260 257 365 480 659 480 410 476 473 332 324 438 461 305 294	AUGUST 250 249 247 248 253 253 252 250 258 253 253 253 256 84 179 410 348 343 328 319 291 314 304 289	298 252 251 318 333 256 255 293 373 257 256 265 395 544 451 381 426 358 328 318 366 377 300 292	281 272 385 429 294 281 586 605 434 396 385 563 555 352 535 535 535 535 535 535 821 821 821 821 821 821 823	EPTEMBE 269 266 294 191 200 205 434 389 376 371 348 335 336 183 690 809 806 671 600 597 734 710	276 270 301 371 259 243 354 563 412 387 381 489 396 346 414 410 781 822 817 785 703 693 752 722
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	327 350 251 252 346 357 250 252 375 354 265 331 365 254 261 349 377 291 277 369 383 267 264	JUNE 247 249 247 248 248 246 246 246 255 250 251 253 210 251 255 236 250 269 268 263 261 260	268 312 250 249 298 287 248 248 340 262 253 268 328 250 256 290 310 278 274 322 305 264 262	264 399 328 263 342 406 272 271 330 392 282 261 341 398 251 251 343 432 257 248 311 413	JULY 257 262 259 260 272 261 262 261 282 259 246 246 246 244 243 257 245 241 239 269	261 371 265 261 268 375 265 264 272 282 359 265 255 262 356 249 248 257 366 251 246 251 246 251	430 255 254 407 432 264 258 399 451 260 257 365 480 459 480 410 476 473 332 324 438 461 305	AUGUST 250 249 247 248 253 252 250 258 253 253 253 253 256 84 179 410 348 343 328 319 291 314 304 291	298 252 251 318 333 256 255 293 373 257 256 265 395 544 451 381 426 358 328 318 366 377 300	281 272 385 429 294 281 586 605 434 396 385 563 555 352 535 690 924 828 821 821 821 821 827 759 760	EPTEMBE 269 267 266 294 191 200 205 434 389 376 372 371 348 336 376 372 371 348 336 809 806 671 600 809 806 671 600 597 734	276 270 301 371 259 243 354 563 412 387 381 489 396 346 414 410 781 822 817 785 703 693 752
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	327 350 251 252 346 357 250 252 375 354 255 331 365 254 261 349 377 291 277 369 383 267 264 387 387	JUNE 247 247 249 247 248 248 246 246 246 255 250 251 253 210 251 255 250 269 268 260 261 260	268 312 250 249 298 287 248 340 262 253 268 328 250 256 290 310 278 274 322 305 264 262 337 288	264 399 328 263 342 406 272 271 330 392 282 261 343 398 251 251 343 432 257 248 311 413 269 247	JULY 257 262 259 260 272 261 262 261 282 259 246 251 246 241 239 269 243 242	261 371 265 261 268 375 265 264 272 282 359 265 255 265 255 262 356 249 248 257 366 251 246 251 246 251 249 248	430 255 254 407 432 264 258 399 451 260 257 365 480 459 480 410 476 473 322 324 438 461 305 294 362	AUGUST 250 249 247 248 253 252 250 258 253 253 253 253 256 84 179 410 348 343 328 319 291 314 304 291 289 278	298 252 251 318 333 256 255 293 373 257 256 265 395 544 451 381 426 358 318 366 377 300 292 300	281 272 385 429 294 281 586 605 434 396 385 553 525 535 690 924 828 821 821 821 821 821 821 821 821 759 760 734 768	EPTEMBE 269 266 294 191 200 205 434 389 376 371 348 335 336 183 690 809 806 671 600 597 734 710	<pre>276 270 301 371 259 243 354 563 412 387 381 489 396 346 414 410 781 822 817 785 703 693 752 722 714</pre>
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	327 350 251 252 346 357 250 252 375 354 255 331 365 254 261 349 377 291 277 369 383 267 264 387 387 264 263	JUNE 247 249 247 248 248 248 246 252 255 250 251 253 210 251 255 236 250 269 268 261 260 260 259	268 312 250 249 298 287 248 340 262 253 268 328 250 256 290 310 278 274 322 305 264 262 337 288 262 262	264 399 328 263 342 406 272 271 321 330 392 282 261 341 398 251 251 343 432 257 248 311 413 269 247 249 421	JULY 257 262 259 260 272 261 262 262 261 282 259 246 251 246 244 243 257 245 241 239 269 243 242 243 244	261 371 265 261 268 375 265 264 272 282 359 265 255 262 356 249 248 257 366 251 246 243 379 245 245 245 245 245	430 255 254 407 432 264 258 399 451 260 257 365 480 459 480 410 476 473 332 324 438 461 305 294 362 420 288	AUGUST 250 249 247 248 253 253 252 250 258 253 253 253 253 253 253 254 179 410 348 343 328 319 291 314 304 291 291 289 278 289 278	298 252 251 318 333 256 255 293 373 257 256 265 395 544 451 381 426 358 328 318 366 377 300 292 300 378 274	281 272 385 429 294 281 586 605 434 396 385 563 555 352 535 690 924 828 821 821 821 821 821 821 821 821 691 647	EPTEMBE 269 267 264 294 191 200 205 434 389 376 371 348 335 336 183 690 809 809 809 809 809 809 671 600 597 734 710 662 634 609	276 270 301 371 259 243 354 563 412 381 489 396 346 414 410 781 822 817 785 703 693 752 714 659 628
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	327 350 251 252 346 357 250 252 375 354 255 354 261 349 377 291 277 369 383 267 264 387 387 264 387 387 264 387 387	JUNE 247 249 247 248 248 246 246 255 250 251 253 210 251 255 250 251 253 210 251 255 260 261 260 261 260 260 260 260 260	268 312 250 249 298 287 248 248 340 262 253 268 328 250 256 290 310 278 274 322 305 264 262 337 288 262 253	264 399 328 263 342 406 272 271 321 330 392 282 261 341 398 251 251 343 432 257 248 311 413 269 247 249 405	JULY 257 262 259 260 272 261 262 261 282 259 246 251 246 241 239 269 243 242 243 242	261 371 265 261 268 375 265 264 272 282 359 265 255 265 255 262 356 249 248 257 366 251 246 243 379 249 245 245 246 245 245	430 255 254 407 432 264 258 399 451 260 257 365 480 40 476 473 322 420 288 274	AUGUST 250 249 247 248 253 252 250 253 253 253 253 253 253 254 84 179 410 348 343 328 319 291 314 304 291 289 278 269 269 269 269	298 252 251 318 333 256 255 293 373 257 256 265 395 544 451 381 426 358 318 366 377 300 292 300 378 272	281 272 385 429 294 281 586 605 434 396 385 563 555 352 535 690 924 828 821 821 821 821 821 821 821 821 821	EPTEMBE 269 267 266 294 191 200 205 434 389 376 371 348 337 371 348 336 183 690 809 809 809 809 809 671 600 597 734 710 662 634 609 518	<pre>276 270 301 371 259 243 354 563 412 387 381 489 396 346 414 410 781 822 817 785 703 693 752 722 714 659 628 573</pre>
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	327 350 251 252 346 357 250 252 375 354 255 331 365 254 261 349 377 291 277 369 383 267 264 387 387 387 264 263 390	JUNE 247 247 247 248 248 248 246 252 255 250 251 255 250 251 255 250 251 255 269 268 263 261 260 261 260 259 260 259	268 312 250 249 298 287 248 248 340 262 253 268 328 250 256 290 310 276 274 322 305 264 262 337 288 262 237 288 262 257 270	264 399 328 263 342 406 272 271 321 330 392 282 261 341 398 251 251 343 432 257 248 311 413 269 247 249 421 405 246	JULY 257 262 259 260 272 261 262 262 261 282 259 246 251 246 244 243 257 245 241 239 269 243 242 241	261 371 265 261 268 375 265 264 272 282 359 265 262 356 249 248 251 246 243 366 251 246 243 379 249 245 246 243 379 249 245	430 255 254 407 432 264 258 399 451 260 257 365 480 659 480 410 476 473 332 324 438 461 305 294 362 420 288 274 279	AUGUST 250 249 247 248 253 253 252 250 258 253 253 255 84 179 410 348 343 328 319 291 314 304 291 289 278 288 269 272	298 252 251 318 333 256 255 293 373 257 256 265 395 544 451 381 426 358 318 366 377 300 292 300 378 274 272 276	281 272 385 429 294 281 586 605 434 396 385 563 555 352 535 690 924 828 821 821 821 821 821 821 821 821 821	EPTEMBE 269 267 266 294 191 200 205 438 389 376 371 348 335 336 183 690 809 806 671 600 597 734 710 662 634 609 518 289	<pre>276 270 301 371 259 243 354 563 412 387 381 489 396 346 414 410 781 822 817 785 703 693 752 703 693 752 722 714 659 628 573 594</pre>
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	327 350 251 252 346 357 250 252 375 354 255 354 261 349 377 291 277 369 383 267 264 387 387 264 387 387 264 387 387	JUNE 247 249 2447 248 248 246 246 255 250 251 253 210 251 255 250 251 253 210 251 255 260 261 260 261 260 260 260 260 260	268 312 250 249 298 287 248 248 340 262 253 268 328 250 256 290 310 278 274 322 305 264 262 337 288 262 253	264 399 328 263 342 406 272 271 321 330 392 282 261 341 398 251 251 343 432 257 248 311 413 269 247 249 405	JULY 257 262 259 260 272 261 262 261 282 259 246 251 246 241 239 269 243 242 243 242	261 371 265 261 268 375 265 264 272 282 359 265 255 265 255 262 356 249 248 257 366 251 246 243 379 249 245 245 246 245 245	430 255 254 407 432 264 258 399 451 260 257 365 480 40 476 473 322 420 288 274	AUGUST 250 249 247 248 253 252 250 253 253 253 253 253 253 254 84 179 410 348 343 328 319 291 314 304 291 289 278 269 269 269 269	298 252 251 318 333 256 255 293 373 257 256 265 395 544 451 381 426 358 318 366 377 300 292 300 378 272	281 272 385 429 294 281 586 605 434 396 385 563 555 352 535 690 924 828 821 821 821 821 821 821 821 821 821	EPTEMBE 269 267 266 294 191 200 205 434 389 376 371 348 337 371 348 336 183 690 809 809 809 809 809 671 600 597 734 710 662 634 609 518	<pre>276 270 301 371 259 243 354 563 412 387 381 489 396 346 414 410 781 822 817 785 703 693 752 722 714 659 628 573</pre>
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	327 350 251 252 346 357 250 252 375 354 255 354 255 361 349 377 291 277 369 383 267 264 387 387 264 263 390 381 267	JUNE 247 249 247 248 248 248 246 252 255 250 251 255 250 251 255 250 251 255 250 269 268 261 260 260 259 260 259 260	268 312 250 249 298 287 248 340 262 253 268 328 250 256 290 310 278 274 322 305 264 262 337 288 262 262 337 288 262 262 357 288	264 399 328 263 342 406 272 271 321 330 392 282 261 341 398 251 251 251 251 343 432 257 248 311 413 269 247 249 421 405 246	JULY 257 262 259 260 272 261 262 262 262 261 282 259 246 251 246 244 243 257 245 241 239 269 242 243 242 243 242 243	261 371 265 261 268 375 265 264 272 282 359 265 262 356 249 248 255 262 356 251 246 243 379 245 251 246 243 379 245 249 245	430 255 254 407 432 264 258 399 451 260 257 365 480 459 480 410 476 473 332 324 438 461 305 294 362 420 288 274 279 430	AUGUST 250 249 247 248 253 253 252 250 258 253 253 253 256 84 179 410 348 343 328 319 291 314 304 291 291 304 291 291 304 291 291 304 291 291 304 291 291 304 291 291 304 291 291 304 291 291 304 291 291 304 291 291 304 291 291 302 291 304 291 291 304 291 291 304 291 291 304 291 291 304 291 291 304 291 291 304 291 291 304 291 291 304 291 291 304 291 291 304 291 291 201 201 201 201 201 201 201 20	298 252 251 318 333 256 255 293 373 257 256 265 395 544 451 381 426 358 328 318 366 377 300 292 300 378 274 272 276 370	281 272 385 429 294 281 586 605 434 396 385 563 555 352 535 690 924 828 821 821 821 821 821 821 821 821 821	EPTEMBE 269 267 294 191 200 205 438 376 372 371 348 335 336 183 690 809 809 806 671 600 597 734 600 597 734 600 597 734 600 597 734 600 597 734 600 597 734 600 597 734 600 597 734 600 597 734 600 597 734 600 597 734 600 597 734 600 597 734 600 597 734 730 730 731 730 731 730 730 731 730 731 730 731 730 731 730 731 731 731 731 731 731 731 731 731 731	<pre>276 270 301 371 259 243 354 563 412 387 381 489 396 346 414 410 781 822 817 785 703 693 752 703 693 752 722 714 659 628 573 594 511</pre>

01571774 LORBERRY CREEK, SITE E2-0, AT LORBERRY, PA--Continued

PH, WATER, WHOLE, FIELD, STANDARD UNITS, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUAR	Y		MARCH			APRIL			MAY	
1 2 3 4 5	 	 	 	 	 	 	6.9 7.0 7.0 6.9 6.9	6.7 6.9 6.9 6.9 6.5	6.7 7.0 7.0 6.9 6.6	6.6 6.5 6.5 6.5	6.6 6.1 6.5 6.5	6.6 6.5 6.3 6.6 6.5
6 7 8 9 10	 	 	 	 	 	 	6.9 6.8 6.8 6.7 6.7	6.6 6.8 6.7 6.4 6.5	6.7 6.8 6.7 6.5 6.7	6.5 6.5 6.5 6.6 6.5	6.5 6.0 6.1 6.5 6.5	6.5 6.2 6.3 6.5 6.5
11 12 13 14 15	 	 	 	 	 	 	6.7 6.7 6.9 6.9 6.8	6.7 6.1 6.2 6.8 6.6	6.7 6.4 6.6 6.9 6.8	6.5 6.5 6.6 6.6 6.4	6.0 6.1 6.5 6.2 6.1	6.2 6.4 6.5 6.5 6.2
16 17 18 19 20					 		6.8 6.7 6.7 6.6 6.6	6.6 6.7 6.6 6.4 6.5	6.6 6.7 6.7 6.5 6.6	6.5 6.5 6.5 6.4 6.5	6.4 6.5 6.1 6.0 6.4	6.5 6.5 6.3 6.2 6.5
21 22 23 24 25	 	 	 	 	 	 	6.6 6.6 6.6 6.5 6.5	6.6 6.2 6.3 6.5 6.3	6.6 6.4 6.4 6.5 6.5	6.5 6.5 6.5 6.6 6.6	6.5 6.1 6.2 6.5 5.8	6.5 6.2 6.4 6.6 6.3
26 27 28 29 30	 	 	 	 	 	 	6.4 6.5 6.5 6.5 6.7	6.2 6.4 6.5 6.1 6.3	6.2 6.5 6.5 6.3 6.5	6.7 6.8 6.7 6.7 6.7	6.2 6.5 6.6 6.3 6.5	6.5 6.6 6.7 6.4 6.6
31							 7.0	 6.1	6.6	6.7 6.8	6.7 5.8	6.7 6.4
MONTH												
MONTH		JUNE			JULY			AUGUST		S	SEPTEMBE	R
1 2 3 4 5	6.8 6.6 6.7 6.7 6.6	JUNE 6.4 6.6 6.6 6.6 6.4	6.6 6.5 6.7 6.7 6.5	6.8 6.8 6.6 6.7 6.7	JULY 6.7 6.0 5.9 6.6 6.5	6.8 6.1 6.5 6.6 6.7	6.8 6.9 6.9 6.9 6.7	AUGUST 5.8 6.8 6.9 6.2 6.0	6.3 6.8 6.9 6.7 6.3	6.5 6.6 6.1 6.5	6.4 6.5 5.4 5.1 6.1	R 6.5 6.6 6.3 5.4 6.3
1 2 3 4	6.6 6.7 6.7	6.4 6.4 6.6 6.6	6.5 6.7 6.7	6.8 6.6 6.7	6.7 6.0 5.9 6.6	6.1 6.5 6.6	6.8 6.9 6.9 6.9	5.8 6.8 6.9 6.2	6.3 6.8 6.9 6.7	6.5 6.6 6.6 6.1	6.4 6.5 5.4 5.1	6.5 6.6 6.3 5.4
1 2 3 4 5 6 7 8 9	6.6 6.7 6.6 6.5 6.5 6.5 6.3	6.4 6.6 6.6 6.4 6.4 6.3 5.9	6.5 6.7 6.5 6.5 6.5 6.5 6.5 6.1	6.8 6.7 6.7 6.5 6.7 6.8 6.7	6.7 6.0 5.9 6.6 6.5 6.0 6.2 6.7 6.4	6.1 6.5 6.6 6.7 6.5 6.7 6.7 6.7	6.8 6.9 6.9 6.7 6.9 6.9 6.9 6.9 6.4	5.8 6.9 6.2 6.0 6.7 6.9 6.4 5.9	6.3 6.8 6.9 6.7 6.3 6.8 6.9 6.8 6.1	6.5 6.6 6.1 6.5 6.5 6.3 5.2 6.1	6.4 6.5 5.4 5.1 6.1 6.2 4.1 3.9 5.2	6.5 6.6 5.4 6.3 6.4 5.7 4.1 5.7
1 2 3 4 5 6 7 8 9 10 11 12 13 14	6.6 6.7 6.6 6.5 6.5 6.5 6.8 6.7 6.7 6.7	6.4 6.6 6.6 6.4 6.5 5.9 6.3 6.3 6.7	6.5 6.7 6.5 6.5 6.5 6.5 6.1 6.6 6.7 6.6 6.7	6.8 6.7 6.7 6.5 6.7 6.8 6.7 6.7 6.7 6.7 6.7	6.7 6.0 5.9 6.6 6.5 6.2 6.7 6.4 6.3 6.3 6.3 6.3 5.8	6.1 6.5 6.6 6.7 6.1 6.5 6.7 6.5 6.2 6.6 6.6	6.8 6.9 6.9 6.7 6.9 6.9 6.9 6.4 6.8 6.8 6.8 6.8 6.7	5.8 6.9 6.2 6.0 6.7 9.4 5.9 6.3 6.8 5.9 6.8 5.9	6.3 6.9 6.7 6.3 6.8 6.8 6.1 6.6 6.8 6.8 5.0	6.5 6.6 6.1 6.5 6.5 6.3 5.2 6.1 6.2 6.2 6.0 6.0 6.0	6.4 6.5 5.4 5.1 6.1 6.2 4.1 3.9 5.2 6.0 6.0 3.8 3.9 5.9	6.5 6.3 5.4 6.3 6.4 5.7 4.1 5.7 6.1 4.5 5.3 6.0
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	6.6 6.7 6.5 6.5 6.5 6.5 6.5 6.7 6.7 6.7 6.7 6.7 6.7 6.7 6.7 6.8 8 6.7	6.4 6.6 6.6 6.4 6.5 7 6.3 7 6.3 7 6.5 9 6.5 6.6 6.5 6.6 6.5 6.6 6.5 6.6 6.5 6.6 6.5 6.5	6.5 6.7 6.5 6.5 6.5 6.5 6.5 6.5 6.6 6.7 6.4 6.7 6.4 6.7 6.5 6.6	6.8 6.7 6.7 6.5 6.7 6.5 6.7 6.8 6.7 6.8 6.7 6.8 6.8 6.8 6.8 6.8 6.7 7	$\begin{array}{c} 6.7\\ 6.0\\ 5.9\\ 6.6\\ 6.5\\ 6.02\\ 6.7\\ 6.4\\ 6.3\\ 6.1\\ 5.8\\ 5.8\\ 6.7\\ 6.7\\ 6.7\\ 6.7\\ 6.7\\ 6.7\\ 6.7\\ 6.7$	$\begin{array}{c} 6.1\\ 6.5\\ 6.6\\ 6.7\\ 6.1\\ 6.5\\ 6.7\\ 6.5\\ 6.7\\ 6.5\\ 6.2\\ 6.6\\ 6.1\\ 6.8\\ 6.7\\ 6.6\\ 6.1\\ 6.8\\ 6.7\\ 6.6\\ 6.0\\ \end{array}$	6.8 6.9 6.9 6.7 6.9 6.7 6.9 6.4 6.8 6.8 6.8 6.8 6.7 6.0 6.5 6.5 6.6	5.8 6.9 6.2 6.0 7.9 6.4 5.9 6.3 6.8 5.2 6.8 5.2 6.8 5.2 6.0 4.5 9 6.5	6.3 6.9 6.7 6.3 6.8 6.9 6.1 6.8 6.9 5.0 5.5 6.3 5.1 6.6	6.5 6.6 6.1 6.5 6.5 6.3 5.2 6.1 6.2 6.2 6.0 6.0 6.0 6.0 6.0 6.2 4.3 4.1 4.0	6.4 6.5 5.4 5.1 6.1 6.2 4.1 3.9 5.2 6.0 3.8 3.9 3.8 3.9 3.4 4.0 3.8	6.5 6.6 6.3 5.4 6.3 6.4 5.7 4.1 5.7 6.1 4.5 5.7 6.1 4.5 5.1 4.9 3.9 3.9
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	6.67 6.7 6.5 6.5 6.5 6.5 6.7 6.7 6.7 6.5 6.5 6.7 7 7 8.8 7 6.7 6.6 6.6 6.6 6.6 6.6 6.6 6.6	6.44 66.64 66.64 66.5393 63.3776 69.667 5.6667 5.6667 5.6660		6.8 6.7 6.7 6.5 6.7 6.5 6.7 6.7 6.7 6.8 6.7 6.8 6.7 6.8 6.7 6.8 6.7 6.8 6.7 6.7 6.7 6.7 6.7 6.7	6.70 5.96 6.5 6.27 4.3 6.70 5.8 6.70 5.7 6.70 5.7 6.70 5.7 6.5 6.70 5.8 6.70 5.9 6.5 6.5 6.5 5.8 6.70 5.9 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5		6.8 9.9 6.9 6.9 6.9 6.9 6.9 6.9 6.9	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	6.3 6.9 6.3 6.9 6.3 6.8 6.8 6.1 6.8 5.0 5.5 6.3 1 6.6 5.7 5.5 6.5	$\begin{array}{c} 6.5\\ 6.6\\ 6.1\\ 6.5\\ 6.5\\ 6.5\\ 5.2\\ 6.1\\ 6.2\\ 6.2\\ 6.0\\ 6.0\\ 6.0\\ 6.0\\ 6.0\\ 6.0\\ 6.0\\ 6.0$	6.4 6.5 5.4 5.1 6.1 6.2 4.1 3.9 5.2 6.0 6.0 3.89 3.4 4.0 3.8 3.7 3.4 3.8 3.8 3.8	6.5 6.3 5.4 6.3 6.4 5.7 4.1 5.7 6.1 4.5 5.0 1 4.9 9.0 3.9 3.8 3.7 4.0 3.8 3.8

01571774 LORBERRY CREEK, SITE E2-0, AT LORBERRY, PA--Continued

WATER TEMPERATURE, DEGREES CELSIUS, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUAR	Y		MARCH			APRIL			MAY	
1 2							12.0 12.5	11.5 11.5	12.0 12.0	13.0 13.0	11.0 11.0	12.0 12.0
3 4							12.5 12.5	11.5 11.5	12.0 12.0	12.5 13.0	11.5 12.0	12.0 12.0
5							12.0	11.0	11.5	13.0	12.0	12.5
6 7							12.5 12.5	11.5 11.5	11.5 12.0	12.5 12.5	12.0	12.0 12.0
8 9 10							13.0 12.0	11.5 11.5	12.0 11.5	12.5 13.0	12.0 11.5	12.0 12.0
10							12.0 11.0	11.0 10.5	11.5 11.0	13.0 13.0	11.5 11.5	12.0 12.0
12 13							12.0 12.0	11.0 11.0	11.5 11.5	13.0 12.0	11.5 11.5 11.5	12.0 12.0 12.0
14 15							12.5	11.0 11.0	11.5 11.5	12.5 13.0	11.5 11.5 11.5	12.0
16							12.0	11.5	11.5	12.5	11.5	12.0
17 18							12.0 12.0	11.5 11.0	11.5 11.5	12.5 13.0	11.5 12.0	12.0 12.5
19 20							12.5 12.0	11.0 11.0	11.5 11.5	13.0 12.5	12.0 11.5	12.5 12.0
21							12.0	11.0	11.5	13.0	11.5	12.0
22 23							12.5 12.0	11.5 11.0	12.0 12.0	13.0 12.5	12.0 12.0	12.5 12.0
24 25							12.5 12.5	11.0 11.0	11.5 11.5	12.5 12.5	12.0 11.5	$12.0 \\ 12.0$
26 27							13.0 12.5	11.5 11.0	12.0 11.5	12.5	12.0 11.5	12.0 12.0
28 29							12.5	11.0 11.0 11.0	11.5 11.5 12.0	12.5 13.0 13.0	11.5 11.5 12.0	12.0 12.0 12.5
30 31							13.0	11.5	12.0	13.0 13.0 13.0	12.0	12.5 12.5 12.5
MONTH							13.0	10.5	11.7	13.0	11.0	12.1
		JUNE			JULY			AUGUST			SEPTEMBE	IR
1 2	13.0 13.0	JUNE 12.0 12.0	12.5 12.5	13.0 13.0	JULY 12.5 12.5	12.5 13.0	14.0 14.0	AUGUST 12.5 12.5	13.0 13.0	13.5 13.5	SEPTEMBE 12.0 12.0	2 R 12.5 12.5
2 3 4	13.0 13.0 13.0	12.0			12.5 12.5 12.5 12.5			12.5 12.5 12.0 12.0		13.5	12.0	12.5 12.5 12.5 13.0
2 3 4 5	13.0 13.0 13.0 12.5	12.0 12.0 12.0 12.0 12.0 11.5	12.5 12.5 12.0 12.0	13.0 13.5 14.0 14.0	12.5 12.5 12.5 12.5 12.5 12.5	13.0 13.0 13.0 13.0	14.0 13.5 13.0 13.5	12.5 12.5 12.0 12.0 12.5	13.0 12.5 12.5 13.0	13.5 13.5 13.0 14.0 15.5	12.0 12.0 12.0 12.5 13.0	12.5 12.5 12.5 13.0 13.5
2 3 4 5 6 7	13.0 13.0 12.5 13.0 13.0 13.5	12.0 12.0 12.0 12.0 11.5 12.0 12.0 12.0	12.5 12.5 12.0 12.0 12.5 12.5	13.0 13.5 14.0 14.0 13.5 13.5	12.5 12.5 12.5 12.5 12.5 12.5 12.5 12.5	13.0 13.0 13.0 13.0 13.0 13.0	14.0 13.5 13.0 13.5 13.5 13.5	12.5 12.5 12.0 12.0 12.5 12.0 12.0 12.0	13.0 12.5 12.5 13.0 13.0 13.0	13.5 13.5 13.0 14.0 15.5 15.0 17.5	12.0 12.0 12.5 13.0 13.0 12.5	12.5 12.5 12.5 13.0 13.5 13.5 14.0
2 3 4 5 6 7 8 9	13.0 13.0 12.5 13.0 13.5 13.5 13.5 13.0	12.0 12.0 12.0 11.5 12.0 12.0 12.0 12.0 12.5 12.0	12.5 12.5 12.0 12.0 12.5 12.5 12.5 12.5	13.0 13.5 14.0 14.0 13.5 13.5 14.0 13.5	12.5 12.5 12.5 12.5 12.5 12.5 12.5 12.5	13.0 13.0 13.0 13.0 13.0 13.0 12.5 12.5	14.0 13.5 13.0 13.5 13.5 13.5 13.5 13.5 13.5	12.5 12.5 12.0 12.0 12.5 12.0 12.0 12.0 12.5 12.0	13.0 12.5 12.5 13.0 13.0 13.0 13.0 13.0 12.5	13.5 13.0 14.0 15.5 15.0 17.5 13.0 13.5	12.0 12.0 12.5 13.0 13.0 12.5 12.5 12.5	12.5 12.5 13.0 13.5 13.5 14.0 13.0 13.0
2 3 4 5 6 7 8 9 10	13.0 13.0 13.0 12.5 13.0 13.5 13.5 13.0 12.5	12.0 12.0 12.0 11.5 12.0 12.0 12.0 12.5 12.0 12.0	12.5 12.5 12.0 12.0 12.5 12.5 12.5 12.5 12.5 12.5	13.0 13.5 14.0 14.0 13.5 13.5 14.0 13.5 13.0	12.5 12.5 12.5 12.5 12.5 12.5 12.5 12.0 12.0 12.5	13.0 13.0 13.0 13.0 13.0 13.0 12.5 12.5 12.5	14.0 13.5 13.0 13.5 13.5 13.5 13.5 13.5 13.5 13.5	12.5 12.0 12.0 12.0 12.5 12.0 12.5 12.0 12.5 12.0 12.0	13.0 12.5 12.5 13.0 13.0 13.0 13.0 12.5 12.5	13.5 13.5 13.0 14.0 15.5 15.0 17.5 13.0 13.5 13.5	12.0 12.0 12.5 13.0 13.0 12.5 12.5 12.5 12.5	12.5 12.5 12.5 13.0 13.5 14.0 13.0 13.0 13.0 12.5
2 3 4 5 6 7 8 9 10 11 12	13.0 13.0 13.0 12.5 13.0 13.5 13.5 13.0 12.5 13.0 12.5 13.0 13.0	12.0 12.0 12.0 11.5 12.0 12.0 12.0 12.0 12.0 12.0 12.0 12.0	12.5 12.5 12.0 12.0 12.5 12.5 12.5 12.5 12.5 12.5 12.5 12.5	13.0 13.5 14.0 14.0 13.5 13.5 14.0 13.5 13.0 13.5 12.5	12.5 12.5 12.5 12.5 12.5 12.5 12.5 12.0 12.0 12.0 12.5 12.0 12.0	13.0 13.0 13.0 13.0 13.0 12.5 12.5 12.5 12.5 12.5	14.0 13.5 13.0 13.5 13.5 13.5 13.5 13.5 13.5 13.5 13.5	12.5 12.5 12.0 12.0 12.5 12.0 12.0 12.0 12.0 12.0 12.0 12.0 12.0	13.0 12.5 12.5 13.0 13.0 13.0 13.0 12.5 12.5 12.5 13.0	13.5 13.5 13.0 14.0 15.5 15.0 17.5 13.0 13.5 13.5 13.5 13.5	12.0 12.0 12.5 13.0 12.5 12.5 12.5 12.5 12.5 12.5 12.0 12.0	12.5 12.5 12.5 13.0 13.5 14.0 13.0 13.0 13.0 12.5 12.5
2 3 4 5 6 7 8 9 10 11 12 13 14	13.0 13.0 12.5 13.0 13.5 13.5 13.0 12.5 13.0 12.5 13.0 13.0 13.0 14.0	12.0 12.0 12.0 11.5 12.0 12.5 12.0 12.5 12.0 12.0 12.0 12.5 12.5	12.512.512.012.012.512.512.512.512.512.512.512.5	13.0 13.5 14.0 14.0 13.5 13.5 14.0 13.5 13.0 13.5 12.5 13.5 13.0	12.5 12.5 12.5 12.5 12.5 12.5 12.5 12.0 12.0 12.0 12.0 12.0 12.0 12.0	13.0 13.0 13.0 13.0 13.0 12.5 12.5 12.5 12.5 12.5 12.5 12.5 12.5	14.0 13.5 13.0 13.5 13.5 13.5 13.5 13.5 13.5 13.5 14.0 14.0 14.0 20.0 16.5	12.5 12.5 12.0 12.0 12.5 12.0 12.5 12.0 12.5 12.0 12.0 12.0 12.5 12.5 13.0	13.0 12.5 12.5 13.0 13.0 13.0 12.5 12.5 12.5 13.0 13.5 13.5	13.5 13.5 13.0 14.0 15.5 15.0 17.5 13.0 13.5 13.5 13.5 13.0 13.5 13.0	12.0 12.0 12.5 13.0 13.0 12.5 12.5 12.5 12.5 12.5 12.0 12.0 12.0 12.0	12.5 12.5 13.0 13.5 14.0 13.0 13.0 13.0 12.5 12.5 12.5 12.5 12.5
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