

SWATARA CREEK BASIN

01571778 LORBERRY CREEK NEAR LORBERRY JUNCTION, PA
(Swatara Creek Project)

LOCATION.--Lat 40°35'15", long 76°25'35", Schuylkill County, Hydrologic Unit 02050301, on left bank 100 ft downstream from bridge on SR 4011, 0.75 mi west of Lorberry Junction.

DRAINAGE AREA.--3.59 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--November 1999 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 740 ft above sea level, from topographic map.

REMARKS.--Records poor. Other data for this project presented in tables on pages 316-370.

PEAK DISCHARGES FOR CURRENT YEAR.--Peak discharges greater than a base discharge of 70 ft³/s and maximum (*):

Date	Time	Discharge ft ³ /s	Gage Height (ft)	Date	Time	Discharge ft ³ /s	Gage Height (ft)
Dec. 17	----	Unknown	Unknown	No other peak greater than base discharge.			

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.7	3.2	5.4	e9.5	7.2	11	e13	e9.6	4.4	12	3.4	3.2
2	3.0	3.2	4.3	e8.3	7.3	11	e14	e11	6.5	12	2.9	2.8
3	2.9	3.7	3.9	e9.4	8.0	10	e13	e9.9	7.6	9.4	4.0	3.7
4	4.3	3.8	4.2	e8.2	6.7	11	e15	e8.9	5.1	9.5	4.3	2.6
5	3.7	3.1	e5.1	e8.0	6.8	11	e13	e10	5.5	9.8	4.3	2.8
6	3.4	3.0	e4.4	e9.0	8.0	9.7	e13	e8.2	4.7	8.2	4.4	3.3
7	3.8	4.3	e4.8	e7.5	6.7	11	e13	e8.1	4.2	8.6	3.7	2.4
8	3.2	3.0	e5.9	e7.3	6.7	10	e12	e9.0	5.3	7.8	3.3	2.8
9	3.0	3.1	e4.7	e8.5	8.1	9.6	e13	e9.1	4.2	7.3	4.3	2.9
10	3.4	5.9	e4.7	e7.0	9.3	11	e11	8.2	4.5	8.1	3.6	2.5
11	3.7	4.3	e5.3	e7.0	8.2	9.2	e12	7.6	5.0	6.5	4.1	3.0
12	2.9	3.4	e5.2	7.9	8.9	9.0	e12	6.9	e5.3	6.6	4.2	2.6
13	2.9	3.3	e4.2	6.7	8.2	e10	e11	7.3	e6.3	6.2	3.4	2.4
14	4.0	4.6	e5.7	6.4	8.8	e8.4	e12	7.7	e5.8	5.3	4.2	3.5
15	2.9	3.0	e4.5	7.4	12	e8.9	e11	6.7	4.6	6.2	3.4	2.3
16	3.0	3.0	e4.6	6.2	10	e10	e12	6.0	7.2	4.9	2.9	2.5
17	3.9	e4.0	e9.2	6.0	11	e9.5	e13	7.1	11	5.0	4.2	2.9
18	7.1	e3.1	e19	6.9	12	e11	e13	6.0	6.2	5.3	3.0	2.3
19	4.2	2.9	e21	7.9	11	e12	e13	5.5	6.4	4.4	3.1	3.2
20	3.5	3.0	e21	8.0	11	e11	e13	6.3	6.1	4.6	4.7	2.4
21	4.5	4.0	e19	7.8	14	e11	e14	6.3	12	4.3	3.0	2.6
22	3.1	e3.7	e16	6.4	11	e12	e13	8.5	23	3.6	3.4	3.3
23	3.0	e3.7	e15	6.1	11	e11	e14	8.1	20	4.6	3.5	2.2
24	3.9	e4.8	e13	6.5	13	e10	e13	5.4	19	3.4	2.8	6.0
25	3.4	e4.0	e12	5.9	13	e11	e13	5.7	17	4.8	3.5	11
26	3.0	e6.0	e12	5.3	13	e12	e13	6.1	17	6.5	3.1	3.8
27	3.4	e4.2	e11	5.9	13	e12	e11	5.3	17	3.7	2.7	3.4
28	4.1	e4.7	e11	5.8	11	e11	e12	6.8	13	3.4	3.7	3.2
29	3.2	4.0	e11	5.1	---	e12	e11	5.0	13	3.7	2.6	2.5
30	3.3	4.7	e9.5	8.5	---	e23	e11	4.7	12	2.9	2.5	3.1
31	4.5	---	e9.6	8.6	---	e11	---	5.4	---	3.5	4.4	---
TOTAL	111.9	114.7	369.0	225.0	274.9	340.3	377	226.4	278.9	192.1	110.6	97.2
MEAN	3.61	3.82	11.9	7.26	9.82	11.0	12.6	7.30	9.30	6.20	3.57	3.24
MAX	7.1	6.0	9.2	9.5	14	23	15	11	23	12	4.7	11
MIN	2.9	2.9	3.9	5.1	6.7	8.4	11	4.7	4.2	2.9	2.5	2.2

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2000 - 2001, BY WATER YEAR (WY)

MEAN	3.61	3.82	10.3	7.72	8.87	17.9	16.0	8.54	10.1	6.04	3.85	3.42
MAX	3.61	3.82	11.9	8.19	9.82	24.7	19.5	9.77	10.9	6.20	4.14	3.59
(WY)	2001	2001	2001	2000	2001	2000	2000	2000	2000	2001	2000	2000
MIN	3.61	3.82	8.79	7.26	7.95	11.0	12.6	7.30	9.30	5.87	3.57	3.24
(WY)	2001	2001	2000	2001	2000	2001	2001	2001	2001	2000	2001	2001

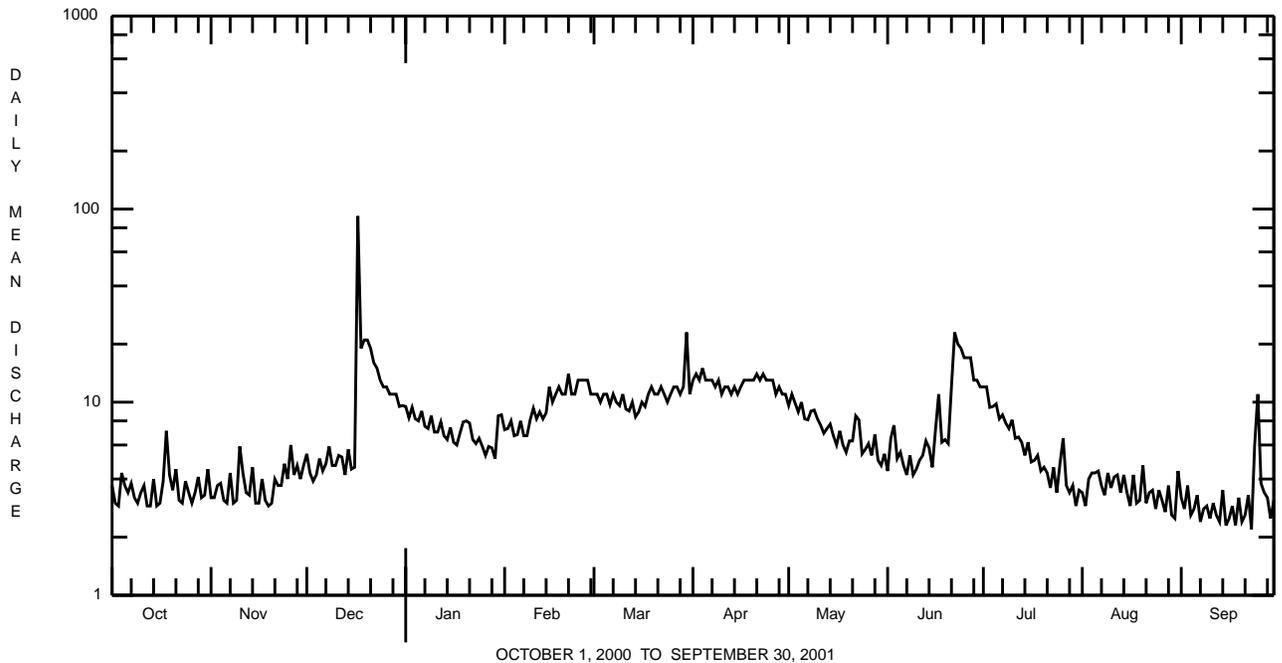
e Estimated.

SWATARA CREEK BASIN

01571778 LORBERRY CREEK NEAR LORBERRY JUNCTION, PA
(Swatara Creek Project)

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 2000 - 2001	
ANNUAL TOTAL	3479.9		2718.0		7.45	
ANNUAL MEAN	9.51		7.45		7.45	
HIGHEST ANNUAL MEAN					2001	
LOWEST ANNUAL MEAN					2001	
HIGHEST DAILY MEAN	e92	Dec 17	e92	Dec 17	e92	Dec 17 2000
LOWEST DAILY MEAN	a2.4	Aug 26	2.2	Sep 23	2.2	Sep 23 2001
ANNUAL SEVEN-DAY MINIMUM	2.6	Sep 6	2.6	Sep 15	2.6	Sep 15 2001
10 PERCENT EXCEEDS	19		13		15	
50 PERCENT EXCEEDS	7.0		6.2		7.1	
90 PERCENT EXCEEDS	3.0		3.0		3.0	

a First occurrence, several days.
e Estimated.



SWATARA CREEK BASIN

01571778 LORBERRY CREEK NEAR LORBERRY JUNCTION, PA--Continued
(Swatara Creek Project)

WATER-QUALITY RECORDS

PERIOD OF RECORD.--April 1996 to current year.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: July 1996 to current year.

pH: July 1996 to current year.

WATER TEMPERATURE: July 1996 to current year.

INSTRUMENTATION.--Water-quality monitor (in situ system). Automatic pumping sampler for stormflow samples since July 1996.

REMARKS.--Specific conductance records rated good except for periods Oct. 1 to Nov. 2, and June 5-19, which are fair. pH records rated fair. Water temperature records rated good. 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. Other data for the Swatara Creek Project presented in tables on pages 316-370. Figure 10 shows the location of sites sampled as part of the Swatara Creek Project.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum, 486, microsiemens, Sept. 27, 2001; minimum, 51, microsiemens, July 24, 1997.

pH: Maximum, 8.1, Aug. 14, 1999; minimum, 3.6, Oct. 21-23, 25, Dec. 3, 1996.

WATER TEMPERATURE: Maximum, 23.5°C, July 5, 6, 1999; minimum, 0.0°C, many days during winters.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum, 486, microsiemens, Sept. 27.

WATER TEMPERATURE: Maximum, 19.0°C, Aug. 10.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	AGENCY ANA- LYZING SAMPLE NUMBER) (00028)	AGENCY COL- LECTING SAMPLE NUMBER) (00027)	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	OXID- ATION RED- UCTION POTEN- TIAL (MV) (00090)	OXYGEN, DIS- SOLVED OXYGEN, DIS- SOLVED (MG/L) (00300)	OXYGEN, PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	PH WATER WHOLE LAB (STAND- ARD UNITS) (00403)	SPE- CIFIC CON- DUCT- ANCE (µS/CM) (00095)	
NOV										
21...	0945	9813	1028	4.3	458	10.8	90	5.9	4.9	353
JAN										
08...	0900	930	1028	6.7	373	11.6	95	6.5	5.4	220
MAR										
13...	1115	930	1028	17	393	11.1	90	5.4	4.4	197
MAY										
21...	1345	930	1028	5.3	284	10.6	98	6.1	5.5	223
JUL										
16...	1000	930	1028	4.8	229	10.2	98	6.7	6.7	288
20...	0745	930	1028	4.1	--	--	--	6.6	6.9	282
20...	1000	930	1028	5.3	--	--	--	6.6	7.0	295
20...	2000	930	1028	4.8	--	--	--	6.1	5.1	338
21...	0000	930	1028	5.0	--	--	--	6.2	5.3	332
21...	1000	930	1028	4.8	--	--	--	6.4	5.9	315
AUG										
31...	1900	930	1028	3.7	--	--	--	4.9	5.4	370
31...	2000	930	1028	9.1	--	--	--	4.9	5.9	256
31...	2200	930	1028	6.7	--	--	--	5.2	5.6	158
SEP										
01...	0200	930	1028	4.3	--	--	--	5.6	4.7	221
24...	2000	930	1028	3.9	--	--	--	5.4	6.0	392
24...	2115	930	1028	8.0	--	--	--	5.2	6.8	322
24...	2215	930	1028	24	--	--	--	5.0	8.1	185
25...	0015	930	1028	37	--	--	--	6.0	8.0	106
25...	0415	930	1028	14	--	--	--	5.6	6.0	184
25...	1215	930	1028	9.5	--	--	--	5.1	4.5	251
26...	0015	930	1028	5.0	--	--	--	4.7	4.5	335
26...	1000	930	1028	3.7	--	--	--	4.8	4.3	366
26...	1045	930	1028	3.7	478	10.4	95	4.8	4.4	368

SWATARA CREEK BASIN

01571778 LORBERRY CREEK NEAR LORBERRY JUNCTION, PA--Continued
(Swatara Creek Project)

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TEMPER- ATURE WATER (DEG C) (00010)	CALCIUM DIS- SOLVED (MG/L AS CA) (00915)	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)
NOV										
21...	7.7	21.8	21.5	28.7	28.7	--	--	5.0	4.7	22
JAN										
08...	6.7	11.0	10.0	14.0	14.0	2.50	1.0	3.3	2.9	<5.0
MAR										
13...	6.3	9.50	9.20	12.0	11.0	.90	.9	4.1	4.2	<5.0
MAY										
21...	11.5	9.60	10.0	14.0	15.0	1.00	1.0	2.7	2.6	<5.0
JUL										
16...	12.8	18.0	18.0	20.0	19.0	1.10	1.1	3.2	3.1	--
20...	13.0	22.0	21.0	22.0	21.0	1.10	1.2	3.2	3.0	--
20...	13.0	18.0	17.0	19.0	19.0	1.10	1.1	3.0	3.0	--
20...	14.0	20.0	20.0	23.0	23.0	1.20	1.2	3.3	3.2	<5.0
21...	13.2	20.0	20.0	23.0	22.0	1.20	1.2	3.2	3.1	<5.0
21...	12.8	19.0	19.0	21.0	21.0	1.10	1.2	3.0	3.0	<5.0
AUG										
31...	15.4	15.0	16.0	16.0	15.0	2.10	7.0	3.7	14.0	--
31...	18.4	13.0	16.0	10.0	13.0	1.20	3.3	2.0	4.1	--
31...	17.2	20.0	14.0	13.0	11.0	1.70	2.6	7.4	3.9	--
SEP										
01...	16.3	12.0	13.0	15.0	14.0	1.10	1.8	2.7	4.7	8.9
24...	14.5	19.0	21.0	18.0	20.0	1.70	6.6	3.9	6.8	--
24...	15.4	13.0	16.0	8.60	9.50	1.40	3.5	2.7	3.0	--
24...	16.6	19.0	49.0	4.80	7.00	1.40	5.1	1.7	2.5	--
25...	16.8	16.0	31.0	5.80	7.20	1.40	4.0	2.4	2.6	--
25...	15.4	12.0	13.0	11.0	11.0	1.30	1.8	3.1	3.9	--
25...	14.5	15.0	15.0	23.0	22.0	1.20	1.2	3.0	3.0	6.3
26...	12.8	16.0	15.0	25.0	24.0	1.20	1.2	3.1	3.0	7.8
26...	10.8	17.0	17.0	27.0	26.0	1.20	1.5	3.1	3.7	5.8
26...	11.1	17.0	16.0	28.0	27.0	1.20	1.2	3.1	3.1	5.0
DATE	ANC WATER UNFLTRD FET LAB (MG/L AS CAC03) (00417)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	RESIDUE TOTAL AT 105 DEG. C, SUS- PENDE (MG/L) (00530)	ALUM- INUM, DIS- SOLVED (µG/L AS AL) (01106)	ALUM- INUM, TOTAL RECOV- ERABLE (µG/L AS AL) (01105)	ARSENIC DIS- SOLVED (µG/L AS AS) (01000)	ARSENIC TOTAL (µG/L AS AS) (01002)	BARIUM, DIS- SOLVED (µG/L AS BA) (01005)	BARIUM, TOTAL RECOV- ERABLE (µG/L AS BA) (01007)
NOV										
21...	2	2.9	176	12	639	1330	--	--	--	--
JAN										
08...	<5	--	87.0	--	70	890	--	--	24.0	22.0
MAR										
13...	<5	--	77.0	--	290	790	<80.0	<40	23.0	23.0
MAY										
21...	<5	--	83.0	--	100	850	<40.0	<40	21.0	21.0
JUL										
16...	9	--	120	--	30	1000	<40.0	<40	23.0	24.0
20...	5	--	140	--	20	1400	<40.0	<40	26.0	27.0
20...	8	--	110	--	20	1700	<40.0	<40	23.0	25.0
20...	--	--	150	--	310	1300	<40.0	<40	27.0	27.0
21...	--	--	140	--	170	1300	<40.0	<40	27.0	27.0
21...	--	--	130	--	80	1100	<40.0	<40	27.0	28.0
AUG										
31...	<5	--	100	--	360	20000	<40.0	<40	26.0	400
31...	<5	--	75.0	--	70	17000	<40.0	<40	25.0	780
31...	<5	--	91.0	--	100	7700	<40.0	<40	17.0	800
SEP										
01...	--	--	96.0	--	380	1600	<40.0	<40	25.0	520
24...	<5	--	120	--	120	24000	<40.0	<40	22.0	1800
24...	10	--	63.0	--	60	17000	<40.0	<40	15.0	940
24...	47	--	44.0	--	210	34000	<40.0	<40	8.0	1300
25...	30	--	46.0	--	400	15000	<40.0	<40	13.0	1000
25...	<5	--	76.0	--	230	1700	<40.0	<40	27.0	1200
25...	--	--	140	--	730	1600	<40.0	<40	28.0	28.0
26...	--	--	150	--	720	1600	<40.0	<40	28.0	28.0
26...	--	--	160	--	710	1600	<40.0	<40	26.0	1000
26...	--	--	170	--	520	1700	<40.0	<40	26.0	26.0

SWATARA CREEK BASIN

01571778 LORBERRY CREEK NEAR LORBERRY JUNCTION, PA--Continued
(Swatara Creek Project)

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	CADMIUM DIS- SOLVED (µG/L AS CD) (01025)	CADMIUM WATER UNFLTRD TOTAL (µG/L AS CD) (01027)	CHRO- MIUM, DIS- SOLVED (µG/L AS CR) (01030)	CHRO- MIUM, TOTAL RECOV- ERABLE (µG/L AS CR) (01034)	COBALT, DIS- SOLVED (µG/L AS CO) (01035)	COBALT, TOTAL RECOV- ERABLE (µG/L AS CO) (01037)	COPPER, DIS- SOLVED (µG/L AS CU) (01040)	COPPER, TOTAL RECOV- ERABLE (µG/L AS CU) (01042)	IRON, DIS- SOLVED (µG/L AS FE) (01046)	IRON, TOTAL RECOV- ERABLE (µG/L AS FE) (01045)
NOV 21...	--	--	--	--	--	--	--	--	6710	8980
JAN 08...	<6.00	<6.00	11.0	18	35.0	33	<6.0	<6.0	5100	6600
MAR 13...	<6.00	<3.00	<6.0	<3	29.0	27	7.0	<3.0	2700	3900
MAY 21...	<3.00	<3.00	<3.0	3	33.0	34	4.0	<3.0	4300	5900
JUL 16...	<3.00	49.0	<3.0	<3	39.0	38	<3.0	<3.0	2600	5900
JUL 20...	<3.00	16.0	<3.0	<3	47.0	48	<3.0	4.0	<10	6600
JUL 20...	<3.00	11.0	<3.0	<3	38.0	39	<3.0	4.0	<10	9400
JUL 20...	<3.00	13.0	<3.0	<3	55.0	54	<3.0	5.0	270	6200
JUL 21...	<3.00	<3.00	<3.0	<3	52.0	52	<3.0	6.0	<10	6200
JUL 21...	<3.00	<3.00	<3.0	<3	47.0	48	<3.0	4.0	180	5500
AUG 31...	<3.00	<3.00	13.0	<3	35.0	61	4.0	62.0	1100	82000
AUG 31...	<3.00	3.00	<3.0	11	15.0	58	<3.0	29.0	10	59000
AUG 31...	<3.00	<3.00	<3.0	5	<3.00	44	<3.0	24.0	280	32000
SEP 01...	<3.00	<3.00	<3.0	<3	27.0	26	<3.0	<3.0	150	6900
SEP 24...	<3.00	3.00	<3.0	20	29.0	59	<3.0	20.0	210	41000
SEP 24...	<3.00	<3.00	<3.0	7	10.0	59	<3.0	31.0	170	61000
SEP 24...	<3.00	9.00	<3.0	13	<3.00	180	<3.0	120	1200	160000
SEP 25...	<3.00	<3.00	<3.0	12	6.00	86	<3.0	59.0	1900	51000
SEP 25...	<3.00	<3.00	<3.0	<3	19.0	25	<3.0	4.0	1200	6000
SEP 25...	<3.00	<3.00	<3.0	<3	36.0	35	<3.0	<3.0	3500	4700
SEP 26...	<3.00	<3.00	<3.0	<3	37.0	36	<3.0	<3.0	3000	4800
SEP 26...	<3.00	<3.00	<3.0	<3	41.0	40	<3.0	<3.0	4100	5100
SEP 26...	<3.00	<3.00	<3.0	<3	42.0	40	<3.0	<3.0	4800	5500

DATE	LEAD, DIS- SOLVED (µG/L AS PB) (01049)	LEAD, TOTAL RECOV- ERABLE (µG/L AS PB) (01051)	MANGA- NESE, DIS- SOLVED (µG/L AS MN) (01056)	MANGA- NESE, TOTAL RECOV- ERABLE (µG/L AS MN) (01055)	NICKEL, DIS- SOLVED (µG/L AS NI) (01065)	NICKEL, TOTAL RECOV- ERABLE (µG/L AS NI) (01067)	SELE- NIUM, DIS- SOLVED (µG/L AS SE) (01145)	SELE- NIUM, TOTAL RECOV- ERABLE (µG/L AS SE) (01147)	ZINC, DIS- SOLVED (µG/L AS ZN) (01090)	ZINC, TOTAL RECOV- ERABLE (µG/L AS ZN) (01092)
NOV 21...	--	--	2600	2570	--	--	--	--	--	--
JAN 08...	<80.0	<80	1400	1400	50.0	51	<200	<200	110	110
MAR 13...	<80.0	<40	1100	1000	46.0	44	<200	<100	130	110
MAY 21...	<40.0	<40	1300	1400	56.0	54	<100	<100	110	110
JUL 16...	<40.0	<40	1600	1600	57.0	58	<100	<100	84	140
JUL 20...	<40.0	<40	1800	1800	72.0	72	<100	<100	110	180
JUL 20...	<40.0	<40	1600	1600	53.0	59	<100	<100	75	150
JUL 20...	<40.0	<40	2000	2000	80.0	80	<100	<100	180	190
JUL 21...	<40.0	<40	1900	1900	80.0	77	<100	<100	170	180
JUL 21...	<40.0	<40	1800	1800	68.0	71	<100	<100	150	160
AUG 31...	<40.0	92	1200	2100	51.0	70	<100	<100	110	750
AUG 31...	<40.0	<40	800	2100	34.0	78	<100	<100	98	630
AUG 31...	<40.0	<40	160	2000	11.0	61	<100	<100	20	520
SEP 01...	<40.0	<40	1200	1200	40.0	41	<100	<100	93	400
SEP 24...	<40.0	<40	1400	2000	47.0	90	<100	<100	120	760
SEP 24...	<40.0	<40	600	2100	17.0	76	<100	<100	28	490
SEP 24...	<40.0	55	210	7700	5.00	210	<100	<100	22	1100
SEP 25...	<40.0	41	390	4100	9.00	98	<100	<100	21	500
SEP 25...	<40.0	<40	850	980	32.0	38	<100	<100	89	270
SEP 25...	<40.0	<40	1200	1200	62.0	66	<100	<100	150	150
SEP 26...	<40.0	<40	1200	1200	79.0	78	<100	<100	160	150
SEP 26...	<40.0	<40	1400	1300	73.0	70	<100	<100	170	340
SEP 26...	<40.0	<40	1400	1300	75.0	71	<100	<100	170	160

SWATARA CREEK BASIN

01571778 LORBERRY CREEK NEAR LORBERRY JUNCTION, 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		
1	375	282	332	367	294	333	311	219	258	---	---	---
2	282	275	278	294	280	288	325	227	262	---	---	---
3	279	268	274	369	289	312	227	224	227	---	---	---
4	372	229	320	390	270	327	241	220	223	---	---	---
5	244	227	238	270	259	264	---	---	---	---	---	---
6	260	244	251	265	259	263	---	---	---	---	---	---
7	362	260	304	387	261	344	---	---	---	---	---	---
8	367	274	303	273	257	261	---	---	---	---	---	---
9	275	264	273	270	237	258	---	---	---	---	---	---
10	322	262	274	319	187	246	---	---	---	---	---	---
11	371	275	330	341	234	272	---	---	---	---	---	---
12	275	268	273	319	241	259	---	---	---	309	224	275
13	271	266	269	277	254	255	---	---	---	306	225	234
14	372	268	319	364	261	326	---	---	---	226	224	226
15	375	273	297	261	253	256	---	---	---	308	224	275
16	273	261	265	254	249	251	---	---	---	307	220	231
17	304	254	270	355	249	291	---	---	---	222	220	221
18	320	191	248	366	252	291	---	---	---	308	221	270
19	240	210	225	252	251	252	---	---	---	321	177	231
20	261	240	248	288	249	252	---	---	---	206	172	184
21	330	261	299	---	---	---	---	---	---	285	186	240
22	325	299	306	---	---	---	---	---	---	293	209	229
23	299	290	296	---	---	---	---	---	---	215	212	213
24	352	284	306	---	---	---	---	---	---	300	213	247
25	359	279	319	---	---	---	---	---	---	309	222	255
26	279	276	278	---	---	---	---	---	---	223	220	221
27	286	270	274	---	---	---	---	---	---	301	218	239
28	373	286	342	---	---	---	---	---	---	321	224	274
29	317	272	279	234	203	221	---	---	---	225	218	222
30	276	270	273	219	200	207	---	---	---	268	153	201
31	367	276	311	---	---	---	---	---	---	253	181	222
MONTH	375	191	286	390	187	274	325	219	242	321	153	236
	FEBRUARY			MARCH			APRIL			MAY		
1	190	182	187	227	187	197	---	---	---	---	---	---
2	225	186	192	243	192	225	---	---	---	---	---	---
3	285	213	258	192	187	189	---	---	---	---	---	---
4	214	210	213	233	188	202	---	---	---	---	---	---
5	219	205	210	241	195	219	---	---	---	---	---	---
6	294	217	270	198	192	193	---	---	---	---	---	---
7	230	211	215	242	191	214	---	---	---	---	---	---
8	212	210	211	244	201	221	---	---	---	---	---	---
9	274	208	250	201	192	195	---	---	---	---	---	---
10	272	173	196	241	192	222	---	---	---	261	216	229
11	204	191	200	243	203	215	---	---	---	258	219	231
12	279	204	250	215	191	200	---	---	---	224	218	222
13	279	206	217	---	---	---	---	---	---	280	219	249
14	208	190	201	---	---	---	---	---	---	276	251	267
15	241	181	215	---	---	---	---	---	---	265	224	241
16	243	176	193	---	---	---	---	---	---	232	225	229
17	186	174	178	---	---	---	---	---	---	278	230	265
18	245	186	223	---	---	---	---	---	---	265	223	234
19	246	188	199	---	---	---	---	---	---	230	219	223
20	193	185	189	---	---	---	---	---	---	287	225	265
21	245	187	225	---	---	---	---	---	---	281	152	228
22	243	194	199	---	---	---	---	---	---	237	145	181
23	203	194	196	---	---	---	---	---	---	248	206	227
24	250	196	233	---	---	---	---	---	---	231	212	220
25	222	172	194	---	---	---	---	---	---	287	225	254
26	199	173	180	---	---	---	---	---	---	282	205	242
27	235	180	216	---	---	---	---	---	---	223	201	216
28	190	181	187	---	---	---	---	---	---	266	204	251
29	---	---	---	---	---	---	---	---	---	266	229	240
30	---	---	---	---	---	---	---	---	---	300	229	242
31	---	---	---	---	---	---	---	---	---	301	270	292
MONTH	294	172	211	244	187	208	---	---	---	301	145	239

SWATARA CREEK BASIN

01571778 LORBERRY CREEK NEAR LORBERRY JUNCTION, 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			SEPTEMBER		
1	270	218	255	257	188	231	348	303	323	322	196	285
2	278	184	227	270	257	264	307	294	301	402	322	338
3	277	194	224	281	252	267	357	300	337	412	385	400
4	252	224	236	302	263	278	306	151	262	385	313	354
5	310	248	289	335	236	282	304	213	277	431	339	362
6	305	262	279	276	251	266	377	302	354	427	367	402
7	291	267	275	303	271	294	369	332	347	367	353	358
8	366	291	330	298	267	277	392	333	345	428	349	377
9	331	287	298	309	261	272	392	354	376	420	357	387
10	362	290	312	307	272	296	354	225	317	357	259	329
11	357	305	335	305	260	281	380	305	335	442	311	371
12	---	---	---	341	286	314	375	335	354	406	356	374
13	---	---	---	333	299	313	341	326	331	360	314	352
14	---	---	---	300	288	294	383	320	358	406	329	387
15	298	273	287	337	297	328	365	325	341	381	343	350
16	344	182	319	326	288	300	332	317	326	422	340	349
17	266	178	237	346	268	298	388	328	369	423	353	392
18	348	266	293	340	289	323	366	322	333	358	339	344
19	349	325	343	293	271	282	392	315	330	415	358	400
20	326	183	291	341	281	314	388	234	319	380	268	327
21	342	114	260	332	288	307	327	301	312	412	294	322
22	224	121	185	298	284	291	396	315	347	412	350	392
23	224	175	202	345	296	331	390	327	359	350	335	339
24	245	209	235	328	286	298	331	314	323	393	108	309
25	242	225	232	352	110	274	395	320	361	334	106	240
26	267	228	241	282	128	249	378	327	347	409	334	376
27	265	248	260	286	256	272	330	309	321	486	409	442
28	250	242	246	350	279	295	387	319	368	470	410	447
29	271	245	262	346	295	328	369	323	338	440	433	436
30	267	245	254	299	283	292	343	320	323	477	428	452
31	---	---	---	358	288	320	389	158	348	---	---	---
MONTH	366	114	267	358	110	291	396	151	335	486	106	366

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			NOVEMBER			DECEMBER			JANUARY		
1	5.9	4.7	4.8	---	---	---	---	---	---	---	---	---
2	6.1	5.9	6.0	---	---	---	---	---	---	---	---	---
3	6.1	6.0	6.1	6.6	5.3	6.3	---	---	---	---	---	---
4	6.1	4.9	5.0	6.6	5.3	5.4	---	---	---	---	---	---
5	5.9	5.3	5.9	6.6	6.5	6.6	---	---	---	---	---	---
6	6.0	5.9	5.9	6.5	6.5	6.5	---	---	---	---	---	---
7	6.0	4.9	5.7	6.5	5.0	5.4	---	---	---	---	---	---
8	5.8	4.9	5.4	6.4	6.1	6.4	---	---	---	---	---	---
9	5.9	5.8	5.9	6.7	6.3	6.4	---	---	---	---	---	---
10	6.0	5.2	5.9	6.7	6.1	6.6	---	---	---	---	---	---
11	---	---	---	6.4	6.0	6.2	---	---	---	---	---	---
12	---	---	---	6.4	6.2	6.3	---	---	---	6.5	5.3	5.4
13	---	---	---	6.3	6.2	6.2	---	---	---	6.5	5.4	6.4
14	---	---	---	6.2	5.2	5.4	---	---	---	6.5	6.5	6.5
15	---	---	---	6.2	6.0	6.2	---	---	---	6.5	5.3	5.4
16	---	---	---	---	---	---	---	---	---	6.4	5.3	6.3
17	---	---	---	6.2	5.1	5.8	---	---	---	6.4	6.4	6.4
18	---	---	---	6.1	5.1	5.7	---	---	---	6.4	5.3	5.5
19	---	---	---	6.2	6.1	6.1	---	---	---	6.3	5.3	6.2
20	---	---	---	6.2	6.0	6.2	---	---	---	6.4	6.3	6.4
21	---	---	---	---	---	---	---	---	---	6.4	5.2	5.6
22	---	---	---	---	---	---	---	---	---	6.2	5.2	6.1
23	---	---	---	---	---	---	---	---	---	6.3	6.2	6.3
24	---	---	---	---	---	---	---	---	---	6.4	5.3	6.3
25	---	---	---	---	---	---	---	---	---	6.1	5.2	5.8
26	---	---	---	---	---	---	---	---	---	6.2	6.1	6.2
27	---	---	---	---	---	---	---	---	---	6.3	5.3	6.2
28	---	---	---	---	---	---	---	---	---	6.0	5.2	5.3
29	---	---	---	6.1	5.6	5.8	---	---	---	6.2	6.0	6.1
30	---	---	---	6.5	6.1	6.2	---	---	---	6.2	5.6	6.2
31	---	---	---	---	---	---	---	---	---	5.9	5.2	5.3
MAX	6.1	6.0	6.1	6.7	6.5	6.6	---	---	---	6.5	6.5	6.5
MIN	5.8	4.7	4.8	6.1	5.0	5.4	---	---	---	5.9	5.2	5.3

SWATARA CREEK BASIN

01571778 LORBERRY CREEK NEAR LORBERRY JUNCTION, 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
	FEBRUARY			MARCH			APRIL			MAY		
1	6.1	5.9	6.0	---	---	---	---	---	---	---	---	---
2	6.1	6.1	6.1	---	---	---	---	---	---	---	---	---
3	6.1	5.1	5.2	---	---	---	---	---	---	---	---	---
4	5.9	5.5	5.8	---	---	---	---	---	---	---	---	---
5	5.9	5.9	5.9	---	---	---	---	---	---	---	---	---
6	5.9	5.1	5.2	---	---	---	---	---	---	---	---	---
7	---	---	---	---	---	---	---	---	---	---	---	---
8	---	---	---	---	---	---	---	---	---	---	---	---
9	---	---	---	---	---	---	---	---	---	---	---	---
10	---	---	---	---	---	---	---	---	---	6.4	5.2	6.3
11	---	---	---	---	---	---	---	---	---	6.4	5.2	6.3
12	---	---	---	6.8	6.2	6.3	---	---	---	6.4	6.4	6.4
13	---	---	---	---	---	---	---	---	---	6.5	5.0	6.4
14	---	---	---	---	---	---	---	---	---	5.6	5.0	5.4
15	---	---	---	---	---	---	---	---	---	6.5	5.5	6.3
16	---	---	---	---	---	---	---	---	---	6.4	6.4	6.4
17	---	---	---	---	---	---	---	---	---	6.4	5.2	5.4
18	---	---	---	---	---	---	---	---	---	6.3	5.5	6.3
19	---	---	---	---	---	---	---	---	---	6.3	6.2	6.2
20	---	---	---	---	---	---	---	---	---	6.2	5.0	5.1
21	---	---	---	---	---	---	---	---	---	6.5	5.1	6.0
22	---	---	---	---	---	---	---	---	---	6.6	5.2	6.4
23	---	---	---	---	---	---	---	---	---	6.1	5.2	5.8
24	---	---	---	---	---	---	---	---	---	6.7	5.9	6.5
25	---	---	---	---	---	---	---	---	---	6.7	5.3	6.7
26	---	---	---	---	---	---	---	---	---	6.5	5.4	5.8
27	---	---	---	---	---	---	---	---	---	6.5	6.5	6.5
28	---	---	---	---	---	---	---	---	---	6.5	5.2	5.4
29	---	---	---	---	---	---	---	---	---	6.3	5.5	6.3
30	---	---	---	---	---	---	---	---	---	6.4	5.4	6.3
31	---	---	---	---	---	---	---	---	---	5.9	5.2	5.4
MAX	6.1	6.1	6.1	6.8	6.2	6.3	---	---	---	6.7	6.5	6.7
MIN	5.9	5.1	5.2	6.8	6.2	6.3	---	---	---	5.6	5.0	5.1
	JUNE			JULY			AUGUST			SEPTEMBER		
1	6.4	5.9	6.4	---	---	---	---	---	---	---	---	---
2	6.4	5.7	6.2	---	---	---	---	---	---	---	---	---
3	6.0	5.6	5.8	---	---	---	---	---	---	---	---	---
4	6.1	6.0	6.0	---	---	---	---	---	---	---	---	---
5	6.0	5.3	5.6	---	---	---	---	---	---	6.8	4.9	6.3
6	6.5	5.6	6.4	---	---	---	---	---	---	5.9	4.8	4.9
7	6.5	6.4	6.5	---	---	---	---	---	---	6.4	5.9	6.3
8	6.7	5.4	5.6	---	---	---	---	---	---	6.3	4.7	6.3
9	6.7	6.6	6.7	---	---	---	---	---	---	5.6	4.7	4.9
10	---	---	---	---	---	---	---	---	---	5.9	5.6	5.8
11	---	---	---	---	---	---	---	---	---	6.4	4.7	5.9
12	---	---	---	---	---	---	---	---	---	---	---	---
13	---	---	---	---	---	---	---	---	---	---	---	---
14	---	---	---	---	---	---	---	---	---	---	---	---
15	---	---	---	---	---	---	6.6	5.0	6.3	---	---	---
16	---	---	---	---	---	---	6.7	6.5	6.6	---	---	---
17	---	---	---	---	---	---	6.6	4.9	4.9	---	---	---
18	---	---	---	---	---	---	6.5	5.1	6.4	---	---	---
19	---	---	---	---	---	---	6.5	4.9	6.4	---	---	---
20	6.5	6.1	6.5	---	---	---	5.5	4.8	5.0	---	---	---
21	6.4	5.1	6.0	---	---	---	---	---	---	---	---	---
22	5.5	4.9	5.1	---	---	---	---	---	---	---	---	---
23	5.5	5.0	5.3	---	---	---	---	---	---	---	---	---
24	5.7	5.2	5.5	---	---	---	---	---	---	---	---	---
25	---	---	---	---	---	---	---	---	---	---	---	---
26	---	---	---	---	---	---	---	---	---	---	---	---
27	---	---	---	---	---	---	---	---	---	---	---	---
28	---	---	---	---	---	---	---	---	---	---	---	---
29	---	---	---	---	---	---	---	---	---	---	---	---
30	---	---	---	---	---	---	---	---	---	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---
MAX	6.7	6.6	6.7	---	---	---	6.7	6.5	6.6	6.8	5.9	6.3
MIN	5.5	4.9	5.1	---	---	---	5.5	4.8	4.9	5.6	4.7	4.9

SWATARA CREEK BASIN

01571778 LORBERRY CREEK NEAR LORBERRY JUNCTION, 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	12.5	10.0	11.5	11.0	8.5	10.0	8.5	6.5	7.5	---	---	---
2	13.0	11.0	12.0	11.5	9.0	10.0	7.5	5.5	6.5	---	---	---
3	14.0	11.5	12.5	12.0	9.0	10.5	6.5	4.5	5.5	---	---	---
4	15.5	11.5	13.0	12.0	10.0	11.0	7.0	5.0	6.0	---	---	---
5	13.0	12.5	12.5	10.0	9.0	9.5	---	---	---	---	---	---
6	13.5	12.0	13.0	10.0	8.0	9.0	---	---	---	---	---	---
7	12.0	10.5	11.0	11.0	8.0	9.5	---	---	---	---	---	---
8	10.5	9.0	9.5	12.0	9.5	11.0	---	---	---	---	---	---
9	9.5	8.0	9.0	11.5	11.0	11.5	---	---	---	---	---	---
10	10.5	8.5	9.5	12.0	11.0	11.0	---	---	---	---	---	---
11	12.0	10.0	11.0	11.0	9.5	10.5	---	---	---	---	---	---
12	12.5	9.5	11.0	10.5	9.5	10.0	---	---	---	8.0	6.5	7.0
13	12.5	9.5	11.0	10.5	9.5	10.0	---	---	---	7.5	5.5	6.5
14	13.0	10.5	12.0	11.0	8.0	10.0	---	---	---	7.5	5.5	6.5
15	13.5	10.5	12.0	8.5	8.0	8.5	---	---	---	8.0	7.0	8.0
16	13.0	12.0	12.0	9.0	7.5	8.5	---	---	---	8.0	7.0	7.0
17	12.5	11.5	12.0	9.5	8.0	9.0	---	---	---	7.0	6.5	7.0
18	12.5	11.5	12.0	8.5	7.0	8.0	---	---	---	7.5	6.5	7.5
19	12.0	10.0	11.5	8.0	6.0	7.0	---	---	---	8.0	5.0	6.0
20	12.5	9.0	10.5	7.5	6.0	6.5	---	---	---	5.5	3.5	5.0
21	13.0	10.5	11.5	---	---	---	---	---	---	6.0	3.5	4.5
22	12.0	9.5	11.0	---	---	---	---	---	---	5.5	4.0	5.0
23	11.5	8.5	9.5	---	---	---	---	---	---	6.0	3.0	4.5
24	12.0	9.5	11.0	---	---	---	---	---	---	7.5	4.0	5.5
25	13.5	11.0	12.0	---	---	---	---	---	---	7.0	5.0	6.0
26	13.0	10.5	11.5	---	---	---	---	---	---	6.0	4.0	5.0
27	13.0	10.0	11.5	---	---	---	---	---	---	7.0	5.5	6.0
28	12.0	9.0	11.0	---	---	---	---	---	---	6.5	5.0	6.0
29	10.0	8.0	9.0	8.5	7.5	8.0	---	---	---	6.0	4.0	5.0
30	10.0	8.5	9.0	7.5	7.0	7.5	---	---	---	6.0	4.0	5.0
31	11.0	8.5	10.0	---	---	---	---	---	---	6.5	5.5	6.0
MONTH	15.5	8.0	11.1	12.0	6.0	9.4	8.5	4.5	6.4	8.0	3.0	5.9

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	FEBRUARY			MARCH			APRIL			MAY		
1	6.5	5.5	5.5	7.5	6.0	6.5	---	---	---	---	---	---
2	6.5	4.0	5.5	8.5	7.5	7.5	---	---	---	---	---	---
3	6.0	4.0	5.0	8.5	7.0	7.5	---	---	---	---	---	---
4	6.0	4.0	5.0	7.0	5.5	7.0	---	---	---	---	---	---
5	5.5	4.5	5.0	7.0	5.5	6.5	---	---	---	---	---	---
6	7.5	5.5	7.0	6.5	5.5	6.0	---	---	---	---	---	---
7	7.0	5.5	6.0	8.5	6.5	7.5	---	---	---	---	---	---
8	6.5	5.0	5.5	8.0	7.0	7.5	---	---	---	---	---	---
9	8.0	6.0	7.0	7.5	6.5	7.0	---	---	---	---	---	---
10	7.5	4.5	6.0	8.0	6.0	7.0	---	---	---	13.5	11.0	12.0
11	5.0	4.0	4.5	8.0	6.0	7.0	---	---	---	14.0	11.5	12.5
12	6.5	4.0	5.5	8.0	6.0	7.0	---	---	---	13.5	12.0	12.5
13	7.5	6.0	6.5	---	---	---	---	---	---	12.5	11.0	11.5
14	7.0	6.0	6.5	---	---	---	---	---	---	12.5	10.0	11.5
15	7.5	6.5	7.0	---	---	---	---	---	---	12.5	10.0	11.5
16	7.0	6.0	6.5	---	---	---	---	---	---	12.5	9.5	11.0
17	6.5	4.5	5.5	---	---	---	---	---	---	12.0	11.5	11.5
18	6.5	4.5	6.0	---	---	---	---	---	---	12.0	11.5	11.5
19	7.0	5.0	6.0	---	---	---	---	---	---	13.5	11.5	12.5
20	8.5	6.5	7.5	---	---	---	---	---	---	12.5	11.5	12.0
21	8.0	6.5	7.5	---	---	---	---	---	---	12.0	11.5	11.5
22	6.5	5.5	5.5	---	---	---	---	---	---	12.5	11.5	12.0
23	7.5	6.0	6.5	---	---	---	---	---	---	13.5	12.0	12.5
24	8.0	6.5	7.0	---	---	---	---	---	---	13.5	11.5	12.5
25	7.0	6.5	7.0	---	---	---	---	---	---	13.0	12.0	12.5
26	7.5	6.5	7.0	---	---	---	---	---	---	12.5	12.5	12.5
27	8.5	6.5	7.5	---	---	---	---	---	---	13.5	12.0	12.5
28	7.0	6.0	6.5	---	---	---	---	---	---	13.0	12.0	12.5
29	---	---	---	---	---	---	---	---	---	13.0	11.0	12.5
30	---	---	---	---	---	---	---	---	---	12.0	11.0	11.5
31	---	---	---	---	---	---	---	---	---	12.5	10.5	11.5
MONTH	8.5	4.0	6.2	8.5	5.5	7.0	---	---	---	14.0	9.5	12.0

SWATARA CREEK BASIN

01571778 LORBERRY CREEK NEAR LORBERRY JUNCTION, 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
	JUNE			JULY			AUGUST			SEPTEMBER		
1	11.5	10.0	11.0	16.0	13.5	14.0	15.5	13.0	14.0	16.5	13.5	15.5
2	13.0	11.5	12.0	14.0	12.5	13.0	15.5	13.0	14.5	14.0	11.5	13.0
3	13.0	12.0	12.5	14.0	12.0	13.0	16.0	13.5	14.0	14.5	11.5	13.0
4	13.0	11.5	12.0	14.0	13.0	13.5	18.0	14.0	15.0	17.0	13.5	14.5
5	13.5	11.5	12.5	14.5	13.0	13.5	16.0	14.5	15.5	14.5	13.0	13.5
6	13.0	12.5	12.5	14.0	12.5	13.0	15.5	14.0	14.5	14.0	11.5	13.0
7	14.0	12.0	13.0	14.0	12.0	13.0	16.5	14.0	15.0	15.0	11.5	13.0
8	14.0	11.5	12.5	14.0	13.0	13.5	17.0	14.5	15.5	15.0	13.0	14.0
9	14.0	11.0	12.5	15.0	13.0	14.0	16.0	14.0	15.0	15.5	13.0	14.5
10	14.0	11.0	12.5	14.5	13.0	13.5	19.0	14.5	15.5	18.0	14.5	15.0
11	14.5	12.5	13.5	14.5	13.0	14.0	15.5	14.0	15.0	14.5	12.5	13.5
12	---	---	---	14.0	12.5	13.5	15.5	14.0	14.5	14.5	12.0	13.0
13	---	---	---	14.0	12.5	13.0	15.5	14.5	15.0	15.5	11.5	13.5
14	---	---	---	14.0	12.5	13.0	15.5	14.0	14.5	14.0	12.0	13.0
15	15.0	13.5	14.0	14.5	12.5	13.5	15.5	13.5	14.5	13.0	10.0	11.5
16	16.0	13.5	14.0	14.5	12.5	13.5	16.0	13.5	15.0	13.0	10.0	11.5
17	16.0	14.5	15.0	15.0	13.5	14.0	16.0	14.0	15.0	14.0	11.0	12.5
18	15.0	13.5	14.5	14.5	13.5	14.0	15.0	13.5	14.5	14.0	11.0	12.5
19	15.5	13.0	14.0	15.0	13.5	14.0	15.5	13.5	14.5	14.5	12.0	13.0
20	17.0	13.5	14.5	14.5	13.0	13.5	15.5	14.0	15.0	15.0	13.5	14.0
21	18.5	14.5	15.0	14.5	12.5	13.5	15.5	13.5	14.5	15.0	13.5	14.0
22	17.5	15.0	16.0	15.0	12.5	13.5	15.0	13.0	14.0	15.0	13.0	13.5
23	15.5	14.5	15.0	15.0	13.0	14.0	14.5	13.5	14.0	14.5	12.5	13.5
24	14.5	13.5	14.0	16.0	13.5	14.5	16.0	14.0	14.5	17.0	12.5	14.0
25	14.0	13.0	13.5	18.5	14.0	15.0	14.5	13.0	14.0	17.0	13.0	14.5
26	14.0	13.0	13.5	17.0	14.5	15.5	16.0	13.5	14.5	13.0	11.0	12.0
27	14.0	13.0	13.5	14.5	13.0	14.0	15.5	14.0	14.5	12.5	11.0	12.0
28	14.5	13.0	13.5	14.5	12.5	13.5	15.5	13.5	14.5	12.0	11.0	11.5
29	14.0	13.0	13.5	14.0	13.0	13.5	15.5	13.5	14.5	12.5	11.0	12.0
30	15.0	13.5	14.0	14.5	13.5	13.5	15.0	13.0	14.0	12.0	9.5	11.0
31	---	---	---	14.5	13.5	14.0	18.5	14.0	15.0	---	---	---
MONTH	18.5	10.0	13.5	18.5	12.0	13.7	19.0	13.0	14.6	18.0	9.5	13.2