



2005 Water Year
SWATARA CREEK BASIN
01571778 Lorberry Creek near Lorberry Junction, PA

Latitude: 40° 35' 15"

Longitude: 076° 25' 35"

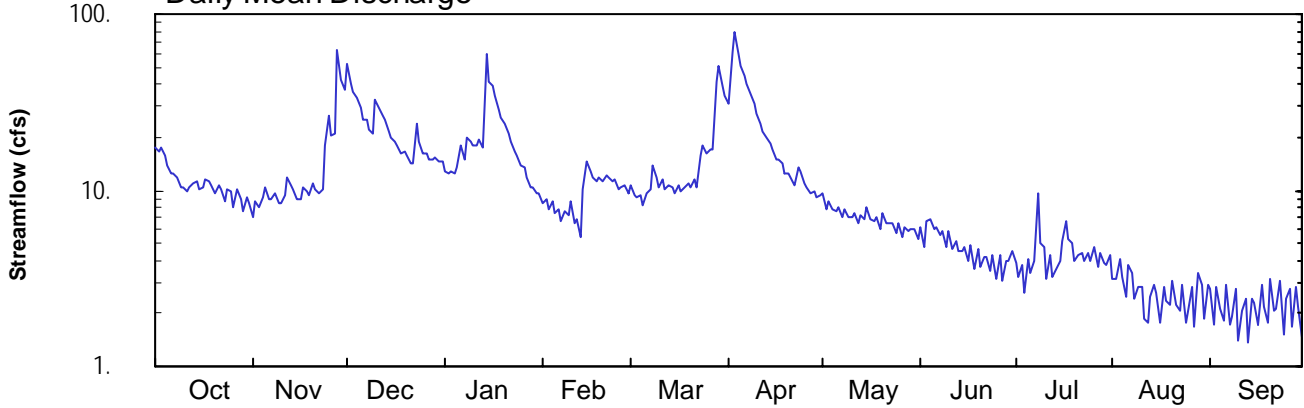
Hydrologic Unit Code: 02050301

Schuylkill County

Datum: 740. feet

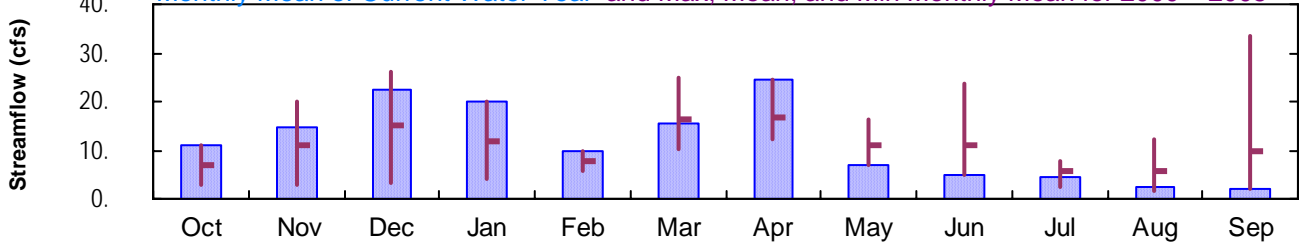
Drainage Area: 3.59 mi²

Daily Mean Discharge

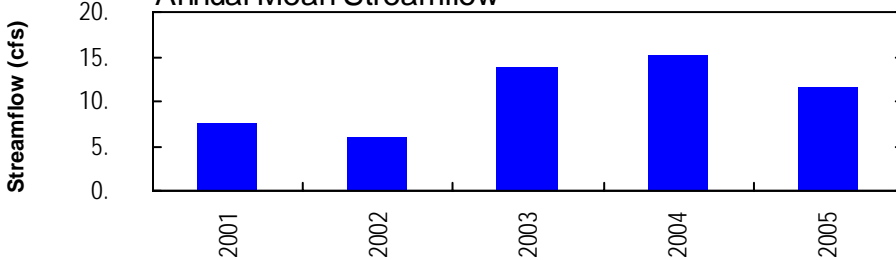


Monthly Statistics

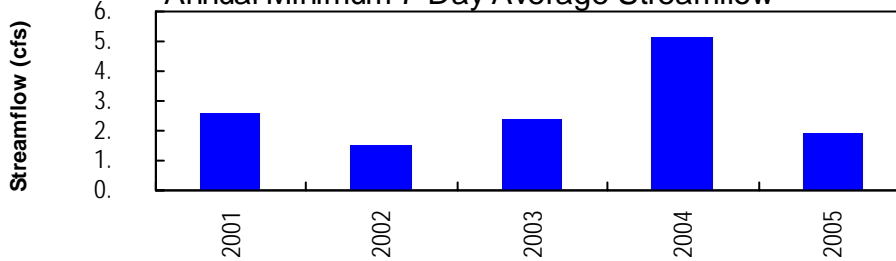
Monthly Mean of Current Water Year and Max, Mean, and Min Monthly Mean for 2000 – 2005



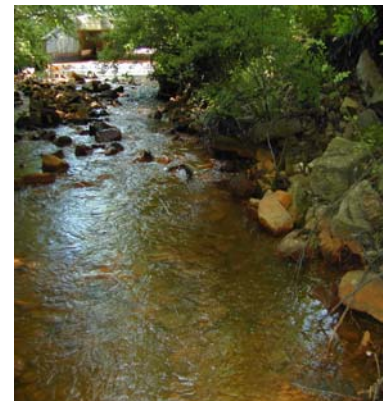
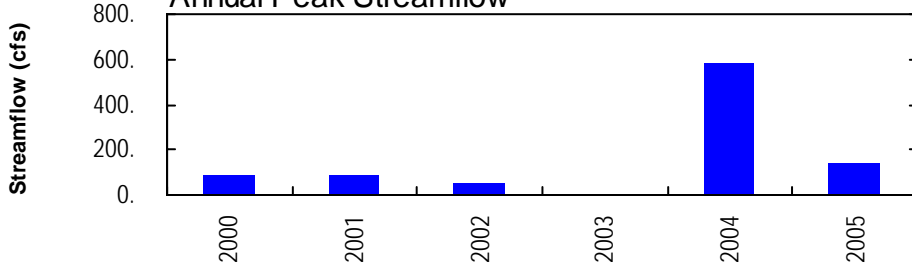
Annual Mean Streamflow



Annual Minimum 7-Day Average Streamflow



Annual Peak Streamflow



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 National Geodetic Vertical Datum of 1929, from topographic map.

REMARKS.--Records fair. Streamflows affected by mine pumping.

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)
Nov. 28	0815	*142	*2.60	Mar. 28	2130	103	2.35
Dec. 1	0900	75	2.14	Apr. 2	1545	113	2.42
Jan. 14	0800	85	2.22				

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	18	e7.1	52	13	8.4	11	31	9.6	6.2	3.9	3.2	2.7
2	17	8.7	40	13	9.0	9.5	61	7.9	4.8	3.2	3.2	1.7
3	17	8.1	36	13	7.7	9.1	80	8.6	6.7	3.8	4.0	2.9
4	16	9.0	34	13	8.7	9.4	59	7.9	6.9	2.6	3.2	2.1
5	14	10	30	13	7.4	8.2	51	7.6	6.0	4.1	2.5	1.8
6	12	8.9	25	18	7.9	9.7	45	8.1	6.2	3.4	3.8	2.9
7	12	9.0	25	15	6.7	10	40	7.0	5.6	4.0	3.4	1.7
8	12	9.6	22	20	7.6	14	35	7.9	5.8	9.6	2.4	1.9
9	10	8.4	21	19	7.1	12	31	7.1	4.8	5.0	2.8	2.7
10	10	8.5	32	18	8.7	10	27	7.1	5.9	4.8	2.8	1.4
11	9.9	9.4	30	18	6.5	11	24	7.4	4.6	3.2	1.9	2.1
12	e10	12	27	19	6.9	10	22	6.5	5.1	4.3	1.8	2.4
13	e11	11	25	18	5.5	11	20	7.2	4.6	3.3	2.5	1.4
14	e11	10	21	59	10	10	19	6.9	4.5	3.6	2.9	2.4
15	e10	9.0	20	42	15	9.6	17	8.0	4.7	4.0	2.6	2.3
16	e10	8.9	19	39	13	11	15	6.8	4.0	5.2	1.8	1.7
17	e11	10	18	34	12	9.9	15	6.7	4.9	6.7	2.8	2.9
18	e11	9.8	16	29	11	10	14	7.0	3.6	5.3	2.4	2.2
19	e11	9.4	17	26	12	11	12	6.0	4.6	5.1	2.2	1.8
20	e9.7	11	16	24	11	10	13	7.4	3.7	4.0	3.1	3.1
21	e11	10	14	21	12	12	11	6.4	4.2	4.3	2.2	2.1
22	e10	9.6	14	19	12	11	11	6.5	4.2	4.4	2.1	2.1
23	e8.7	10	24	17	11	16	13	6.5	3.5	3.9	2.9	3.0
24	e10	18	19	16	12	18	13	5.7	4.2	4.5	1.8	1.5
25	e10	26	16	14	10	16	11	6.5	3.1	4.0	2.1	2.4
26	e8.0	21	16	13	11	17	10	5.5	4.3	4.8	2.9	2.8
27	e10	21	15	12	11	17	9.6	6.2	3.1	3.7	1.7	1.7
28	e9.0	62	15	10	9.6	41	9.9	5.8	4.0	4.4	3.4	2.9
29	e7.7	42	15	10	---	51	9.1	5.9	4.0	3.9	2.9	2.2
30	e9.1	37	14	9.7	---	39	9.3	6.0	4.6	3.8	1.9	1.5
31	e8.4	---	14	9.7	---	35	---	5.4	---	4.3	2.9	---
TOTAL	344.5	444.4	702	614.4	270.7	479.4	737.9	215.1	142.4	135.1	82.1	66.3
MEAN	11.1	14.8	22.6	19.8	9.67	15.5	24.6	6.94	4.75	4.36	2.65	2.21
MAX	18	62	52	59	15	51	80	9.6	6.9	9.6	4.0	3.1
MIN	7.7	7.1	14	9.7	5.5	8.2	9.1	5.4	3.1	2.6	1.7	1.4

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2000 - 2005, BY WATER YEAR (WY)

	2000	2001	2002	2003	2004	2005	2000	2001	2002	2003	2004	2005
MEAN	6.92	10.9	15.3	11.8	7.77	16.2	16.7	10.8	11.0	5.52	5.62	9.65
MAX	11.1	19.9	26.0	19.8	9.82	24.7	24.6	16.4	23.7	7.81	12.4	33.6
(WY)	2005	2004	2004	2005	2001	2000	2005	2002	2003	2004	2003	2004
MIN	2.99	3.03	3.35	3.97	5.83	10.3	12.2	6.94	4.75	2.59	1.82	2.21
(WY)	2002	2002	2002	2002	2002	2002	2002	2005	2005	2002	2002	2005

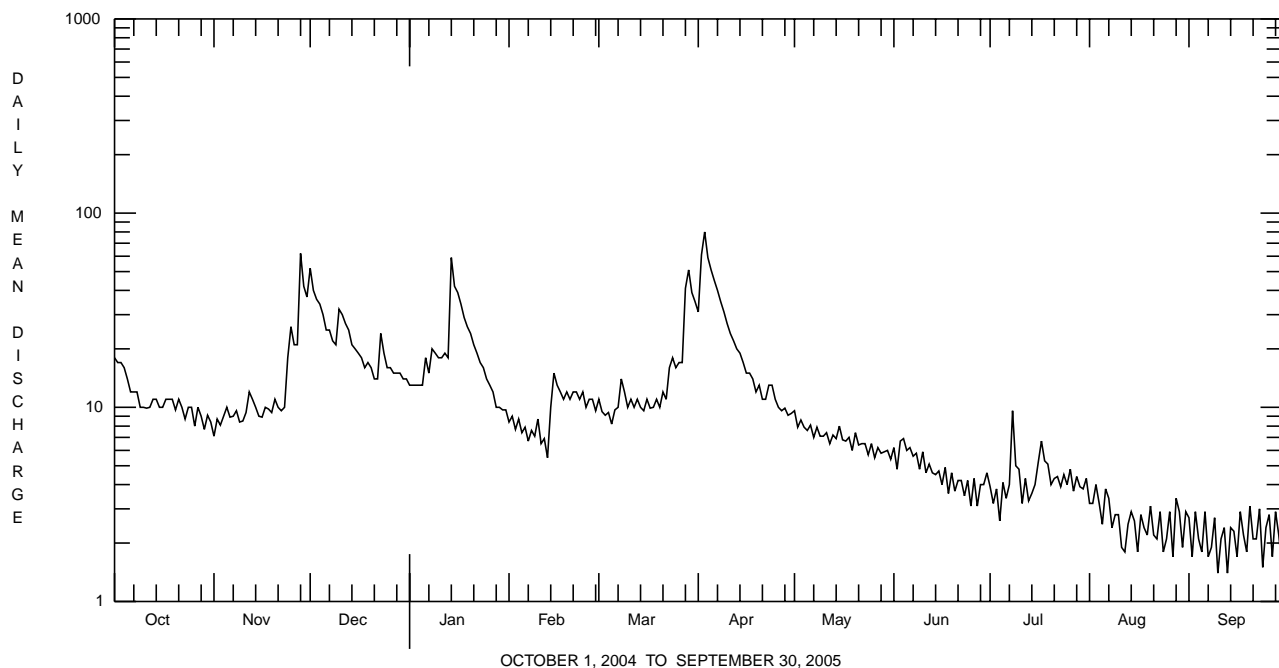
e Estimated.

SWATARA CREEK BASIN

01571778 LORBERRY CREEK NEAR LORBERRY JUNCTION, PA

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 2000 - 2005	
ANNUAL TOTAL	5312.9		4234.3			
ANNUAL MEAN	14.5		11.6		10.8	
HIGHEST ANNUAL MEAN					15.2	2004
LOWEST ANNUAL MEAN					5.97	2002
HIGHEST DAILY MEAN	e450	Sep 18	80	Apr 3	e450	Sep 18 2004
LOWEST DAILY MEAN	4.4	Jul 9	1.4	Sep 10,13	1.2	Sep 7 2002a
ANNUAL SEVEN-DAY MINIMUM	5.1	Jul 4	1.9	Sep 7	1.5	Sep 7 2002
MAXIMUM PEAK FLOW			b142	Nov 28	b578	Sep 18 2004
MAXIMUM PEAK STAGE			2.60	Nov 28	c4.21	Sep 18 2004
10 PERCENT EXCEEDS	22		24		21	
50 PERCENT EXCEEDS	11		9.1		8.2	
90 PERCENT EXCEEDS	6.7		2.6		2.8	

- a Also Sept. 10, 13, 2002.
b From rating extended above 46 ft³/s.
c From floodmark.
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 September 2005. (Discontinued)

pH: July 1996 to September 2005. (Discontinued)

WATER TEMPERATURE: July 1996 to September 2005. (Discontinued)

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

REMARKS.--Specific conductance records good except for periods June 1-14 and Sept. 25-30, which are fair, and Oct 1-12, which are poor. pH records good except for periods Oct. 1-12, Jan. 27 to Feb. 2, June 9-15, and July 8-17, which are fair, and Nov. 1-22, and July 18 to Sept. 30, which are poor. 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.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum, 526, microsiemens, Sept. 29, 2002; minimum, 43, microsiemens, Sept. 18, 2004.

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, 349, microsiemens, Sept. 29; minimum 67, microsiemens, Nov. 28.

pH: Maximum, 7.2, Nov. 2; minimum, 4.8, Apr. 4, 14.

WATER TEMPERATURE: Maximum, 19.6°C, July 16; minimum 3.5°C, Mar. 10.

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

Date	Time	Agency collecting sample, code (00027)	Agency analyzing sample, code (00028)	Instantaneous discharge, cfs (00061)	Oxidation-reduction potential, mV (00090)	Turbidity, water, unfltrd field, NTU (61028)	Dissolved oxygen, mg/L (00300)	Dissolved oxygen, percent of saturation (00301)	pH, water, unfltrd field, std units (00400)	pH, water, unfltrd lab, std units (00403)
OCT 28...	1145	1028	89203	8.1	334	8.6	11.3	102	6.1	5.9
DEC 21...	1045	1028	89203	14	435	26	12.6	102	6.0	5.4
FEB 16...	1115	1028	89203	13	374	12	12.6	101	5.8	5.8
APR 20...	1435	1028	89203	12	305	25	10.6	102	5.2	4.7
JUN 07...	1610	1028	89203	5.0	248	9.0	10.3	107	6.2	6.3
JUL 19...	1415	1028	89203	5.2	396	--	10.4	109	5.9	5.2
AUG 30...	1300	1028	89203	1.9	360	--	9.4	96	6.2	6.0

Date	Specific conductance, water, unfltrd, 25 degC (00095)	Temperature, water, deg C (00010)	Calcium, water, unfltrd, mg/L (00915)	Calcium, water, unfltrd recoverable, mg/L (00916)	Magnesium, water, unfltrd, mg/L (00925)	Magnesium, water, unfltrd recoverable, mg/L (00927)	Potassium, water, unfltrd, mg/L (00935)	Potassium, water, unfltrd recoverable, mg/L (00937)	Sodium, water, unfltrd, mg/L (00930)	Sodium, water, unfltrd recoverable, mg/L (00929)
OCT 28...	216	10.9	11.8	12.3	15.3	15.7	.90	.9	2.30	2.6
DEC 21...	166	6.4	7.90	8.2	12.3	12.8	.80	.9	2.80	2.8
FEB 16...	157	7.2	8.20	8.3	11.2	11.3	.80	.8	2.50	2.5
APR 20...	195	13.8	8.90	10.4	12.7	15.0	1.00	1.1	2.40	2.8
JUN 07...	178	16.9	9.30	9.3	12.2	12.4	.70	.7	2.80	2.1
JUL 19...	315	17.2	15.7	14.0	26.5	23.2	1.30	1.2	3.40	3.2
AUG 30...	260	15.8	14.7	15.5	20.2	21.2	1.20	1.2	3.10	3.3

SWATARA CREEK BASIN

01571778 LORBERRY CREEK NEAR LORBERRY JUNCTION, PA--Continued

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

Date	ANC, wat unf fixed end pt, lab, mg/L as CaCO3 (00417)	Chlor- ide, water, fltrd, mg/L (00940)	Fluor- ide, water, fltrd, mg/L (00950)	Sulfate water, fltrd, mg/L (00945)	Nitrate water, fltrd, mg/L as N (00618)	Nitrite water, fltrd, mg/L as N (00613)	Ortho- phos- phate, water, fltrd, mg/L as P (00671)	Alum- inum, water, fltrd, µg/L (01106)	Alum- inum, water, recover -able, µg/L (01105)	Bromine water unfltrd mg/L (71871)
OCT 28...	2	2.6	--	96.5	--	--	--	<100	600	--
DEC 21...	3	2.7	--	70.2	--	--	--	<100	500	--
FEB 16...	3	4.0	--	66.2	--	--	--	<100	400	--
APR 20...	1	2.4	<.01	74.2	.40	<.030	<.020	300	600	.19
JUN 07...	7	2.7	<.01	60.9	<.01	<.030	<.020	<100	300	.18
JUL 19...	2	2.7	--	150	--	--	--	200	500	--
AUG 30...	3	2.9	--	113	--	--	--	<100	200	--

Date	Iron, water, fltrd, µg/L (01046)	Iron, water, recover -able, µg/L (01045)	Mangan- ese, water, fltrd, µg/L (01056)	Mangan- ese, water, recover -able, µg/L (01055)	Nickel, water, fltrd, µg/L (01065)	Nickel, water, recover -able, µg/L (01067)	Zinc, water, fltrd, µg/L (01090)	Zinc, water, recover -able, µg/L (01092)
OCT 28...	2080	3120	960	970	55.0	55.0	120	130
DEC 21...	910	2550	840	880	45.0	45.0	105	115
FEB 16...	1150	1810	720	730	40.0	40.0	100	100
APR 20...	560	2010	860	950	55.0	60.0	155	185
JUN 07...	1410	2160	830	860	35.0	35.0	70.0	70.0
JUL 19...	1880	2240	1070	960	60.0	55.0	140	130
AUG 30...	1600	2270	1000	1000	50.0	50.0	135	160

SWATARA CREEK BASIN

01571778 LORBERRY CREEK NEAR LORBERRY JUNCTION, PA--Continued

SPECIFIC CONDUCTANCE, MICROSIEMENS PER CENTIMETER AT 25° CELSIUS, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
1	157	151	154	---	---	---	167	98	130	180	162	170
2	157	128	145	212	206	209	153	140	149	182	163	180
3	158	128	149	211	185	198	156	148	152	184	163	178
4	167	158	163	189	164	181	164	148	157	166	150	157
5	174	160	168	200	180	192	172	161	163	175	148	163
6	174	158	161	204	178	191	164	154	161	159	123	134
7	186	174	181	207	179	189	164	145	154	166	130	144
8	191	182	187	209	204	208	162	148	157	168	107	137
9	191	171	176	210	183	193	176	132	167	159	136	152
10	199	171	188	209	182	193	140	89	119	164	158	161
11	204	198	201	211	208	209	151	116	140	252	161	173
12	---	---	---	210	134	168	160	151	157	161	148	157
13	---	---	---	190	142	158	167	158	162	196	144	152
14	---	---	---	202	190	196	169	157	161	284	79	112
15	---	---	---	204	177	191	175	158	170	153	138	146
16	---	---	---	200	173	181	177	174	176	158	152	156
17	---	---	---	206	200	203	176	174	175	170	157	162
18	---	---	---	207	177	196	178	160	168	171	165	169
19	---	---	---	204	175	182	179	160	173	171	169	170
20	---	---	---	205	191	201	187	178	184	176	166	169
21	---	---	---	196	172	184	184	163	171	172	169	171
22	---	---	---	205	172	185	188	182	185	173	162	171
23	---	---	---	209	204	207	197	92	151	173	158	162
24	---	---	---	209	90	163	168	113	143	178	173	175
25	---	---	---	149	97	121	179	167	175	176	157	167
26	---	---	---	173	149	163	181	176	178	181	157	176
27	---	---	---	179	165	171	179	164	169	184	164	177
28	---	---	---	167	67	120	183	166	176	185	164	175
29	---	---	---	162	147	156	181	165	178	188	164	184
30	---	---	---	167	161	165	180	163	174	185	161	171
31	---	---	---	---	---	---	181	178	179	189	185	187
MONTH	204	128	170	212	67	182	197	89	163	284	79	163
	FEBRUARY			MARCH			APRIL			MAY		
1	187	163	170	189	175	180	155	147	150	191	174	184
2	192	186	189	205	162	175	155	77	115	191	162	170
3	191	165	172	187	162	174	137	78	116	197	162	190
4	195	190	193	190	164	187	148	135	142	200	169	188
5	194	163	174	182	159	163	154	146	149	197	167	179
6	196	185	192	188	176	183	159	145	156	202	197	200
7	192	161	172	181	130	159	160	156	159	201	170	176
8	192	176	187	159	103	134	163	144	160	206	169	199
9	181	148	159	178	156	168	167	162	165	207	176	193
10	180	164	171	182	157	165	172	166	169	209	174	191
11	189	158	166	185	177	180	173	169	172	211	177	205
12	196	189	193	179	155	163	176	159	172	203	173	177
13	195	167	175	182	158	175	178	159	168	208	203	206
14	216	103	182	190	168	184	197	170	182	207	139	184
15	128	105	118	189	165	172	208	185	188	199	137	181
16	161	128	153	195	189	192	190	169	176	201	173	189
17	168	146	158	194	165	178	192	169	188	205	169	186
18	175	149	160	191	165	178	195	192	193	211	194	208
19	181	175	178	188	157	182	193	169	175	195	178	181
20	179	154	163	173	147	154	197	191	194	211	188	200
21	178	154	172	179	173	176	199	173	191	203	179	189
22	185	154	172	184	154	168	194	169	179	216	188	202
23	175	154	162	187	113	147	200	135	174	230	209	221
24	179	175	177	145	128	138	160	140	149	209	178	190
25	190	158	168	162	132	142	191	151	175	221	197	213
26	182	159	174	167	161	163	196	190	194	225	188	200
27	185	161	180	169	133	156	196	153	163	232	185	210
28	176	154	159	140	72	107	198	162	191	233	179	212
29	---	---	---	139	84	119	199	170	192	216	179	195
30	---	---	---	148	135	142	174	154	166	227	200	220
31	---	---	---	154	142	150	---	---	---	214	191	197
MONTH	216	103	171	205	72	163	208	77	169	233	137	195

SWATARA CREEK BASIN

01571778 LORBERRY CREEK NEAR LORBERRY JUNCTION, PA--Continued

SPECIFIC CONDUCTANCE, MICROSIEMENS PER CENTIMETER AT 25° CELSIUS, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	JUNE			JULY			AUGUST			SEPTEMBER		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	244	214	232	259	217	248	297	264	280	303	288	296
2	244	199	212	264	216	227	279	253	260	292	269	276
3	227	198	215	274	261	267	297	279	290	309	268	293
4	198	170	181	261	225	229	295	271	287	309	289	303
5	229	172	194	343	224	266	271	254	258	293	275	280
6	241	204	231	255	228	239	297	254	285	313	293	306
7	215	167	180	250	193	225	296	282	291	313	284	300
8	249	215	236	222	118	173	282	240	257	303	270	278
9	249	179	208	289	197	231	288	241	262	316	303	310
10	246	184	225	328	289	314	298	274	290	316	288	303
11	247	211	224	318	293	299	274	249	257	312	272	289
12	261	208	235	322	296	315	252	246	248	318	312	314
13	261	226	245	318	282	296	298	245	267	312	295	300
14	262	218	233	299	272	286	315	298	308	314	278	299
15	267	231	259	298	267	283	314	291	310	321	314	317
16	257	215	225	267	140	204	291	243	261	317	259	299
17	268	254	261	248	193	221	295	243	274	316	239	285
18	259	217	224	277	170	229	297	271	291	318	293	311
19	263	216	252	325	277	310	271	206	233	293	280	287
20	262	220	237	324	300	312	289	234	276	326	284	316
21	261	213	239	323	296	311	290	259	277	327	288	310
22	264	225	252	319	295	310	280	248	255	325	279	288
23	259	215	228	310	282	292	301	280	292	336	325	333
24	270	251	263	311	294	307	300	263	280	336	296	310
25	251	221	224	294	239	258	289	250	263	336	288	303
26	270	222	261	299	274	290	301	288	296	339	262	327
27	268	225	238	298	268	277	301	259	280	274	258	265
28	269	221	253	298	262	282	264	176	220	348	274	320
29	269	134	242	298	271	286	291	264	280	349	302	337
30	252	126	204	293	258	274	287	252	263	303	288	292
31	---	---	---	299	292	294	288	249	268	---	---	---
MONTH	270	126	230	343	118	270	315	176	273	349	239	302
YEAR	349	67	206									

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

DAY	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
	MAX	MIN	MEDIAN	MAX	MIN	MEDIAN	MAX	MIN	MEDIAN	MAX	MIN	MEDIAN
1	5.9	5.8	5.8	---	---	---	5.8	5.5	5.6	6.4	5.9	6.3
2	5.8	5.7	5.7	7.2	6.8	7.0	5.5	5.5	5.5	6.4	5.9	6.0
3	6.0	5.8	5.9	7.0	6.6	6.8	5.7	5.4	5.5	6.0	5.9	6.0
4	6.0	6.0	6.0	6.8	6.4	6.6	5.8	5.5	5.6	6.2	6.0	6.1
5	6.2	6.0	6.2	6.6	6.4	6.5	5.6	5.6	5.6	6.3	5.8	6.0
6	6.2	6.2	6.2	6.8	6.4	6.6	5.9	5.5	5.6	6.2	5.8	5.8
7	6.3	6.2	6.3	6.9	6.6	6.6	5.6	5.4	5.5	6.3	5.9	6.2
8	6.3	6.3	6.3	6.6	6.4	6.5	5.5	5.3	5.4	6.0	5.7	5.9
9	6.4	6.3	6.4	6.5	6.3	6.4	5.5	5.4	5.4	5.7	5.6	5.7
10	6.4	6.3	6.4	6.6	6.4	6.4	5.7	5.4	5.5	5.8	5.6	5.7
11	6.5	6.4	6.5	6.5	6.3	6.4	5.5	5.2	5.2	6.0	5.8	5.9
12	---	---	---	6.5	6.2	6.4	5.2	5.1	5.1	6.1	6.0	6.0
13	---	---	---	6.5	6.1	6.4	5.2	5.0	5.1	6.2	6.1	6.2
14	---	---	---	6.2	6.1	6.1	5.3	5.1	5.3	6.1	5.4	5.5
15	---	---	---	6.5	6.1	6.2	5.4	5.1	5.2	5.5	5.4	5.4
16	---	---	---	6.6	6.1	6.4	5.2	5.2	5.2	5.5	5.4	5.5
17	---	---	---	6.4	6.0	6.2	5.3	5.2	5.3	5.6	5.5	5.5
18	---	---	---	6.5	6.3	6.4	5.7	5.3	5.6	5.6	5.5	5.6
19	---	---	---	6.6	6.4	6.5	5.8	5.3	5.3	5.7	5.6	5.6
20	---	---	---	6.5	6.3	6.4	5.5	5.3	5.4	5.9	5.7	5.7
21	---	---	---	6.5	6.3	6.4	6.1	5.5	6.0	5.8	5.7	5.7
22	---	---	---	6.7	6.4	6.5	5.7	5.5	5.5	5.9	5.6	5.7
23	---	---	---	6.5	6.3	6.4	6.0	5.4	5.6	6.1	5.6	5.9
24	---	---	---	6.5	6.0	6.4	6.2	5.7	5.8	5.7	5.5	5.6
25	---	---	---	6.1	5.9	6.0	5.8	5.7	5.7	6.0	5.6	5.7
26	---	---	---	6.3	6.0	6.2	5.9	5.7	5.8	6.0	5.6	5.6
27	---	---	---	6.4	6.2	6.4	6.3	5.7	6.1	6.1	5.6	5.7
28	---	---	---	6.4	5.3	5.4	6.3	5.9	5.9	6.2	5.6	6.0
29	---	---	---	5.5	5.4	5.4	6.2	5.8	5.9	5.9	5.6	5.6
30	---	---	---	5.7	5.4	5.5	6.3	5.8	5.9	6.2	5.7	6.0
31	---	---	---	---	---	---	5.9	5.8	5.9	5.7	5.6	5.7
MAX	6.5	6.4	6.5	7.2	6.8	7.0	6.3	5.9	6.1	6.4	6.1	6.3
MIN	5.8	5.7	5.7	5.5	5.3	5.4	5.2	5.0	5.1	5.5	5.4	5.4

SWATARA CREEK BASIN

01571778 LORBERRY CREEK NEAR LORBERRY JUNCTION, PA--Continued

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

DAY	MAX	MIN	MEDIAN	MAX	MIN	MEDIAN	MAX	MIN	MEDIAN	MAX	MIN	MEDIAN
	FEBRUARY			MARCH			APRIL			MAY		
1	6.2	5.7	6.0	6.3	5.8	6.0	5.5	5.2	5.4	5.5	5.3	5.3
2	5.8	5.6	5.7	6.2	5.8	5.9	5.4	5.1	5.3	6.0	5.3	5.7
3	6.1	5.4	5.9	6.3	6.0	6.2	5.3	4.9	4.9	6.0	5.3	5.5
4	5.4	5.2	5.3	6.1	5.9	5.9	4.9	4.8	4.9	5.8	5.3	5.4
5	6.2	5.3	6.0	6.4	5.9	6.2	5.1	4.9	5.0	6.0	5.6	5.9
6	5.8	5.3	5.4	6.4	5.9	6.2	5.2	5.1	5.1	5.6	5.5	5.5
7	6.3	5.4	6.1	6.2	5.8	5.9	5.2	5.1	5.2	6.1	5.6	6.0
8	6.2	5.4	5.5	6.3	6.0	6.2	5.2	5.1	5.2	6.2	5.8	6.0
9	6.2	5.5	6.1	6.4	5.9	6.0	5.2	5.1	5.1	6.0	5.8	5.8
10	6.0	5.4	5.5	6.6	6.2	6.5	5.1	5.0	5.1	6.2	6.0	6.2
11	6.2	5.5	6.1	6.3	6.2	6.2	5.1	5.0	5.1	6.4	6.1	6.2
12	5.7	5.4	5.5	6.5	6.2	6.5	5.3	5.1	5.1	6.6	6.3	6.5
13	6.3	5.5	6.1	6.6	6.2	6.2	5.4	5.1	5.3	6.4	6.3	6.3
14	6.0	5.4	5.5	6.5	6.2	6.2	5.3	4.8	5.1	6.6	6.3	6.5
15	6.1	5.7	6.0	6.6	6.3	6.5	6.7	5.3	5.3	6.5	6.1	6.2
16	6.2	5.7	5.8	6.3	6.1	6.2	6.0	5.4	6.0	6.4	6.1	6.2
17	6.1	5.7	5.8	6.4	6.1	6.3	6.1	5.3	5.4	6.5	6.1	6.4
18	6.2	5.9	6.1	6.4	6.0	6.1	5.3	5.2	5.3	6.2	6.0	6.2
19	5.9	5.8	5.9	6.2	6.0	6.0	6.0	5.3	5.9	6.6	6.2	6.4
20	6.1	5.9	6.1	6.2	6.0	6.2	5.4	5.2	5.3	6.4	6.1	6.2
21	6.2	5.8	5.8	6.0	5.8	5.9	5.8	5.2	5.3	6.4	6.1	6.3
22	6.1	5.7	5.8	6.2	5.8	6.0	6.0	5.3	5.9	6.5	6.0	6.2
23	6.2	5.9	6.2	6.2	5.6	5.9	5.4	5.2	5.3	6.2	5.9	6.0
24	5.9	5.8	5.8	6.0	5.7	5.8	5.8	5.2	5.5	6.5	6.2	6.4
25	6.2	5.8	6.1	6.1	5.9	6.0	5.8	5.2	5.4	6.4	6.2	6.2
26	6.3	5.8	6.0	5.9	5.8	5.8	5.2	5.2	5.2	6.5	6.2	6.4
27	5.9	5.8	5.8	5.9	5.8	5.8	5.8	5.2	5.8	6.5	6.2	6.3
28	6.3	5.9	6.2	5.8	5.3	5.7	5.9	5.2	5.3	6.4	6.1	6.2
29	---	---	---	5.3	5.2	5.2	5.7	5.2	5.2	6.5	6.2	6.4
30	---	---	---	5.2	5.1	5.2	5.9	5.5	5.8	6.2	6.1	6.2
31	---	---	---	5.3	5.2	5.2	---	---	---	6.3	6.1	6.3
MAX	6.3	5.9	6.2	6.6	6.3	6.5	6.7	5.5	6.0	6.6	6.3	6.5
MIN	5.4	5.2	5.3	5.2	5.1	5.2	4.9	4.8	4.9	5.5	5.3	5.3
DAY	MAX	MIN	MEDIAN	MAX	MIN	MEDIAN	MAX	MIN	MEDIAN	MAX	MIN	MEDIAN
	JUNE			JULY			AUGUST			SEPTEMBER		
1	6.3	6.0	6.1	6.3	6.1	6.2	6.2	6.0	6.1	6.2	6.1	6.2
2	6.2	6.0	6.1	6.4	6.1	6.3	6.3	6.2	6.3	6.2	6.1	6.2
3	6.3	6.1	6.2	6.1	5.8	6.0	6.3	6.2	6.3	6.2	6.1	6.2
4	6.2	6.1	6.2	6.3	5.8	6.1	6.2	6.1	6.2	6.2	6.1	6.2
5	6.2	6.1	6.2	6.3	5.8	5.9	6.4	6.2	6.4	6.1	6.1	6.1
6	6.2	6.0	6.2	6.0	5.8	5.9	6.5	6.2	6.4	6.2	6.1	6.1
7	6.3	6.1	6.2	6.2	6.0	6.1	6.2	6.2	6.2	6.1	6.1	6.1
8	6.3	6.2	6.2	6.3	6.0	6.1	6.5	6.2	6.4	6.1	6.0	6.1
9	6.3	6.0	6.2	6.3	6.0	6.3	6.6	6.4	6.5	6.1	6.1	6.1
10	6.3	6.1	6.2	6.0	5.8	5.9	6.4	6.3	6.3	6.1	6.1	6.1
11	6.3	6.2	6.2	6.2	5.8	6.1	6.6	6.3	6.6	6.2	6.1	6.1
12	6.3	6.1	6.2	6.2	5.8	5.9	6.7	6.6	6.7	6.1	6.0	6.1
13	6.3	6.2	6.2	6.2	5.8	6.0	6.8	6.5	6.7	6.1	6.0	6.0
14	6.4	6.2	6.2	6.3	6.0	6.2	6.5	6.2	6.3	6.2	6.0	6.1
15	6.4	6.1	6.4	6.2	5.9	6.0	6.2	6.0	6.1	6.1	6.1	6.1
16	6.6	6.2	6.4	6.5	6.2	6.4	6.3	6.0	6.2	6.1	6.0	6.1
17	6.2	6.1	6.2	6.3	6.1	6.2	6.4	6.1	6.3	6.1	6.0	6.1
18	6.5	6.1	6.5	6.4	6.2	6.3	6.1	6.1	6.1	6.1	6.0	6.1
19	6.6	6.0	6.1	6.3	5.8	6.0	6.3	6.1	6.2	6.1	6.0	6.1
20	6.4	6.0	6.3	6.1	5.8	6.0	6.4	6.2	6.3	6.1	6.1	6.1
21	6.5	6.0	6.2	6.2	6.0	6.2	6.2	6.1	6.2	6.1	6.1	6.1
22	6.3	6.0	6.1	6.1	5.9	6.0	6.4	6.2	6.3	6.1	6.0	6.1
23	6.5	6.2	6.4	6.3	6.1	6.2	6.3	6.1	6.2	6.1	6.1	6.1
24	6.2	6.0	6.1	6.1	6.0	6.0	6.2	6.1	6.1	6.1	6.1	6.1
25	6.4	6.1	6.4	6.3	6.0	6.2	6.3	6.2	6.2	6.1	6.1	6.1
26	6.4	6.0	6.2	6.3	6.0	6.2	6.3	6.1	6.2	6.1	6.0	6.1
27	6.4	6.0	6.3	6.2	6.0	6.1	6.2	6.1	6.1	6.0	6.0	6.0
28	6.4	6.0	6.2	6.3	6.1	6.2	6.3	6.1	6.2	6.1	6.0	6.1
29	6.2	6.0	6.1	6.1	6.0	6.0	6.3	6.2	6.2	6.1	6.0	6.0
30	6.5	6.2	6.3	6.3	6.1	6.3	6.2	6.1	6.2	6.0	5.0	6.0
31	---	---	---	6.2	6.1	6.1	6.2	6.2	6.2	---	---	---
MAX	6.6	6.2	6.5	6.5	6.2	6.4	6.8	6.6	6.7	6.2	6.1	6.2
MIN	6.2	6.0	6.1	6.0	5.8	5.9	6.1	6.0	6.1	6.0	5.0	6.0
YEAR	MAX			MAXIMUM	7.2	MINIMUM	4.9					
	MIN			MAXIMUM	6.8	MINIMUM	4.8					
	MEDIAN			MAXIMUM	7.0	MINIMUM	4.9					

SWATARA CREEK BASIN

01571778 LORBERRY CREEK NEAR LORBERRY JUNCTION, PA--Continued

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

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
OCTOBER			NOVEMBER			DECEMBER			JANUARY			
1	13.5	12.1	12.8	---	---	---	9.9	8.8	9.2	9.3	7.9	8.5
2	13.6	12.8	13.1	12.2	10.9	11.6	9.5	8.7	9.0	8.5	7.7	8.1
3	13.4	12.0	12.7	12.2	9.5	11.1	9.2	8.5	8.8	9.3	8.5	8.8
4	13.0	11.4	12.2	10.2	8.9	9.5	9.2	8.2	8.8	8.8	8.2	8.5
5	12.3	11.1	11.8	10.3	9.4	9.8	9.9	8.9	9.3	8.3	6.4	7.8
6	12.2	10.4	11.3	10.7	8.9	9.7	9.3	9.0	9.1	6.4	5.9	6.1
7	12.8	11.1	11.9	11.6	8.9	10.2	9.3	8.9	9.1	6.9	6.0	6.4
8	13.0	11.5	12.2	10.7	9.1	9.7	9.9	9.2	9.6	6.9	5.5	6.1
9	12.8	11.7	12.3	9.1	7.6	8.5	9.5	8.6	9.1	6.9	6.2	6.6
10	12.5	11.7	12.2	9.3	7.1	8.2	8.9	8.1	8.5	7.7	6.9	7.2
11	12.1	11.2	11.7	10.6	8.8	9.6	9.3	8.5	8.9	7.3	6.6	7.1
12	---	---	---	9.8	8.5	9.1	8.9	8.5	8.7	7.6	6.9	7.3
13	---	---	---	8.6	7.8	8.2	9.0	8.5	8.7	9.2	7.4	8.0
14	---	---	---	9.1	7.6	8.3	8.5	7.6	8.2	9.8	6.2	7.3
15	---	---	---	9.6	8.2	8.7	8.2	7.3	7.8	7.2	6.4	6.8
16	---	---	---	10.0	8.2	9.1	8.3	7.2	7.8	7.7	6.9	7.3
17	---	---	---	10.6	8.7	9.7	8.5	7.6	8.1	7.5	6.9	7.2
18	---	---	---	11.2	10.2	10.6	8.1	7.2	7.6	7.0	6.6	6.8
19	---	---	---	11.3	10.2	10.7	8.6	6.4	7.6	7.3	6.7	7.0
20	---	---	---	10.7	10.4	10.6	6.4	5.5	5.9	7.8	7.1	7.4
21	---	---	---	11.3	9.6	10.6	6.9	6.1	6.5	7.1	6.0	6.7
22	---	---	---	10.3	9.4	9.9	8.2	6.9	7.5	6.5	5.2	6.0
23	---	---	---	10.6	9.9	10.3	8.8	5.3	7.3	6.4	5.6	6.0
24	---	---	---	10.8	10.2	10.5	6.4	5.2	5.8	6.6	5.8	6.2
25	---	---	---	10.9	8.7	10.1	6.6	5.7	6.1	7.2	6.4	6.9
26	---	---	---	9.3	8.4	8.8	7.1	5.8	6.4	7.9	6.1	7.3
27	---	---	---	10.0	9.2	9.5	6.7	5.5	6.0	6.2	4.8	5.6
28	---	---	---	10.1	9.2	9.7	7.1	5.6	6.5	6.5	4.6	5.5
29	---	---	---	9.6	9.0	9.3	8.3	7.0	7.7	6.9	5.2	6.0
30	---	---	---	9.9	9.2	9.6	8.3	7.7	8.1	7.5	6.0	6.6
31	---	---	---	---	---	---	9.1	8.1	8.5	7.5	5.8	6.6
MONTH	13.6	10.4	12.2	12.2	7.1	9.7	9.9	5.2	7.9	9.8	4.6	7.0

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
FEBRUARY			MARCH			APRIL			MAY			
1	7.0	4.6	5.9	7.4	5.8	6.6	10.7	9.2	9.9	12.2	9.9	11.0
2	7.6	5.3	6.3	6.6	4.9	5.9	9.9	7.9	8.6	10.6	8.8	9.7
3	7.2	5.8	6.5	6.9	4.4	5.6	7.9	7.0	7.6	10.8	8.6	9.7
4	8.0	6.9	7.4	7.4	5.0	6.2	9.7	7.6	8.6	10.9	8.8	9.8
5	7.9	6.1	6.9	7.3	4.4	5.7	10.5	8.5	9.5	12.1	8.0	10
6	8.5	6.4	7.2	8.5	5.6	6.9	11.5	9.3	10.3	11.5	9.3	10.3
7	8.0	5.9	7.0	8.7	6.3	7.2	11.6	10.2	10.9	12.9	8.6	10.7
8	8.6	7.0	7.7	6.4	3.6	4.7	11.8	10.5	11.0	13.3	10.0	11.4
9	7.6	6.8	7.2	5.5	3.6	4.5	11.7	9.8	10.7	14.3	10.4	12.2
10	7.1	5.8	6.6	5.6	3.5	4.7	12.0	9.6	10.8	14.4	10.7	12.5
11	6.2	4.4	5.4	6.8	5.4	6.1	11.8	10.1	10.8	15.2	11.4	13.1
12	7.4	5.7	6.6	6.9	4.9	6.0	11.3	9.2	10.2	13.5	11.0	12.5
13	6.9	5.4	6.2	7.5	5.2	6.4	11.5	8.8	10.1	13.1	9.5	11.3
14	6.8	4.0	6.0	7.7	5.6	6.5	12.0	9.6	10.6	14.8	11.0	12.8
15	6.4	4.4	5.4	7.5	5.0	6.2	11.7	9.4	10.4	14.2	12.3	13.1
16	7.2	5.5	6.4	8.4	6.3	7.1	11.7	8.7	10.1	12.6	11.3	12.1
17	7.0	5.2	6.1	8.1	6.4	7.0	12.4	9.0	10.6	12.8	10.1	11.5
18	6.0	4.7	5.3	8.9	6.0	7.3	12.9	9.8	11.2	13.3	10.0	11.7
19	6.9	5.4	6.1	9.1	6.3	7.5	13.5	9.9	11.6	13.5	9.6	11.6
20	7.0	5.2	6.4	7.3	6.9	7.1	13.9	11.2	12.3	12.1	10.6	11.4
21	7.4	5.1	6.7	7.8	7.1	7.5	12.7	10.4	11.7	13.3	10.3	11.7
22	8.3	6.7	7.5	9.0	6.6	7.6	10.7	9.2	10.1	13.0	11.0	11.8
23	7.6	6.6	7.0	7.1	4.4	6.2	11.7	10.1	10.6	12.7	10.9	11.7
24	6.9	6.0	6.5	6.6	5.0	6.0	10.5	8.9	9.6	11.8	11.3	11.5
25	6.5	5.1	5.9	7.4	6.0	6.7	9.9	8.6	9.2	12.1	11.0	11.4
26	7.9	4.9	6.5	8.2	6.8	7.5	12.3	8.6	10.4	14.6	11.1	12.7
27	7.7	5.6	6.6	8.3	7.4	8.0	12.6	10.3	11.1	14.8	10.9	12.8
28	6.6	5.3	6.0	7.4	5.4	6.3	11.9	9.6	10.6	13.4	11.6	12.5
29	---	---	---	8.2	5.6	7.2	11.3	9.4	10.3	14.2	10.9	12.3
30	---	---	---	9.5	7.4	8.4	10.9	10.2	10.5	13.7	10.8	12.2
31	---	---	---	9.3	8.4	9.0	---	---	---	15.0	10.7	12.6
MONTH	8.6	4.0	6.5	9.5	3.5	6.6	13.9	7.0	10.3	15.2	8.0	11.7

