



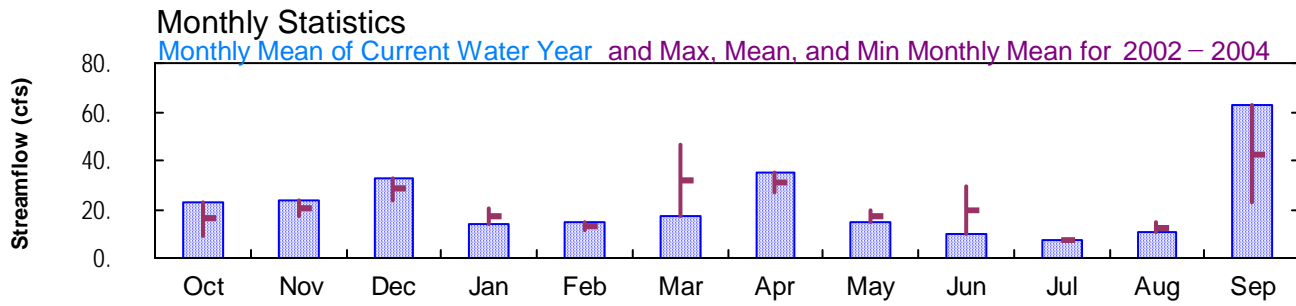
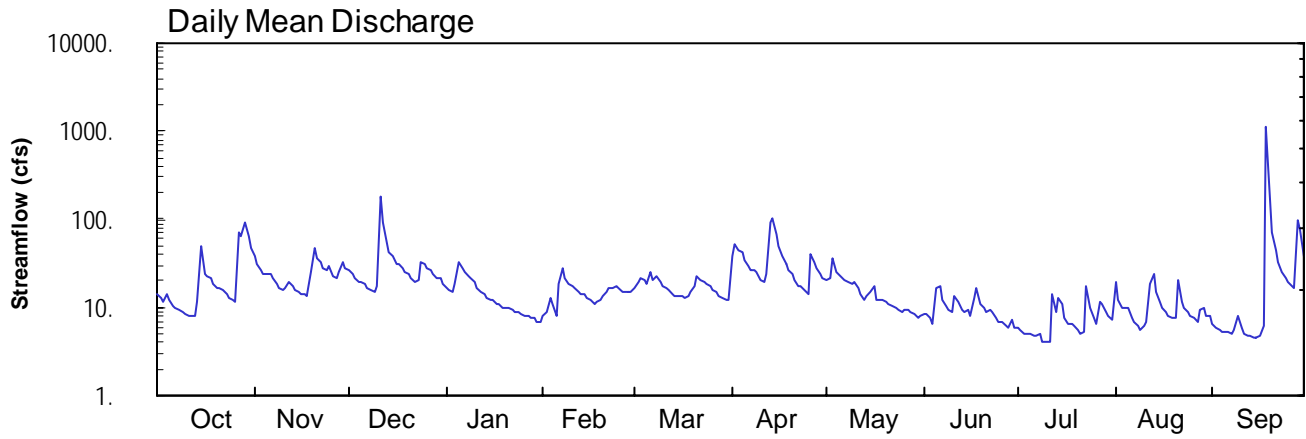
# 2004 Water Year SWATARA CREEK BASIN

## 01573482 Manada Creek at Manada Gap, PA

Latitude: 40° 24 ' 24"  
Dauphin County

Longitude: 076° 42 ' 34"  
Datum: 530 feet

Hydrologic Unit Code: 02050305  
Drainage Area: 8.59 mi<sup>2</sup>



01573482--Manada Creek at Manada Gap

**SWATARA CREEK BASIN**

**01573482 MANADA CREEK AT MANADA GAP, PA**

**LOCATION.**--Lat 40°24'24", long 76°42'34", Dauphin County, Hydrologic Unit 02050305, on left bank, just upstream from bridge on Fogarty Road, 2.7 mi upstream from Walnut Run and 0.8 mi north of Manada Gap.

**DRAINAGE AREA.**--8.59 mi<sup>2</sup>.

**PERIOD OF RECORD.**--September 2002 to current year.

**GAGE.**--Water-stage recorder and crest-stage gage. Datum of gage is 530 ft above National Geodetic Vertical Datum of 1929, from topographic map.

**REMARKS.**--Records good except those for estimated daily discharges, which are poor. Satellite and landline telemetry at station.

**PEAK DISCHARGES FOR CURRENT YEAR.**--Peak discharges greater than a base discharge of 200 ft<sup>3</sup>/s and maximum (\*):

Date	Time	Discharge ft <sup>3</sup> /s	Gage Height (ft)	Date	Time	Discharge ft <sup>3</sup> /s	Gage Height (ft)
Dec. 11	1145	296	4.80	Sept. 28	1915	246	4.60
Sept. 18	0245	*2,800	*12.09				

**DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004  
DAILY MEAN VALUES**

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	14	37	26	17	e8.0	16	38	20	8.7	5.8	20	6.4
2	13	31	24	16	e9.0	19	52	22	8.2	5.6	12	6.0
3	12	27	22	15	e13	21	44	37	7.6	5.1	10	5.6
4	14	24	20	19	e11	20	42	25	6.6	5.1	9.7	5.4
5	12	24	19	32	e8.0	19	34	24	16	5.0	9.8	5.2
6	10	24	19	28	e18	25	29	22	18	4.7	7.7	5.2
7	9.8	21	17	25	29	21	27	21	12	4.7	6.7	5.1
8	9.3	18	16	23	21	23	26	19	10	4.9	6.2	5.6
9	8.7	17	15	21	18	19	25	18	9.2	4.2	5.7	8.0
10	8.4	16	17	e19	17	18	21	19	9.0	4.0	6.0	5.8
11	8.2	16	182	e17	16	17	19	16	14	4.0	6.9	5.1
12	8.0	19	93	e15	15	16	24	14	12	14	18	4.8
13	7.8	17	56	e14	14	15	90	12	9.4	8.7	23	4.7
14	11	16	43	e13	14	14	105	14	8.9	13	15	4.5
15	51	15	37	e12	13	13	67	15	9.4	11	12	4.6
16	24	14	30	e12	e12	13	49	17	7.9	7.6	9.9	4.7
17	22	14	31	e11	e11	13	38	12	13	6.6	8.9	6.0
18	22	13	29	e11	11	13	31	12	16	6.5	8.1	1150
19	19	26	26	e10	12	15	27	12	11	6.2	7.8	177
20	17	46	24	e10	13	17	23	11	9.8	5.4	7.6	70
21	16	37	21	e10	15	22	20	11	8.9	5.0	20	44
22	15	32	20	e9.5	16	20	17	10	9.2	5.3	12	33
23	14	28	20	e9.0	17	19	17	9.7	9.0	18	9.8	26
24	13	26	32	e9.0	17	18	16	9.3	7.6	9.8	8.8	22
25	12	29	31	e8.5	16	17	14	8.8	6.9	7.5	8.2	20
26	12	23	29	e8.0	15	16	40	9.3	6.7	6.6	7.6	18
27	72	22	26	e8.0	15	15	33	9.5	6.1	11	7.0	17
28	63	26	24	e7.5	15	14	28	8.8	6.0	11	9.4	97
29	90	33	21	e7.5	15	13	24	8.3	7.3	9.0	9.9	74
30	63	28	21	e7.0	---	12	22	7.7	5.7	8.0	8.2	39
31	47	---	19	e7.0	---	12	---	8.2	---	7.1	7.9	---
TOTAL	718.2	719	1010	431.0	424.0	525	1042	462.6	290.1	230.4	319.8	1879.7
MEAN	23.2	24.0	32.6	13.9	14.6	16.9	34.7	14.9	9.67	7.43	10.3	62.7
MAX	90	46	182	32	29	25	105	37	18	18	23	1150
MIN	7.8	13	15	7.0	8.0	12	14	7.7	5.7	4.0	5.7	4.5
CFSM	2.70	2.79	3.79	1.62	1.70	1.97	4.04	1.74	1.13	0.87	1.20	7.29
IN.	3.11	3.11	4.37	1.87	1.84	2.27	4.51	2.00	1.26	1.00	1.38	8.14

**STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2002 - 2004, BY WATER YEAR (WY)**

MEAN	15.9	20.4	28.3	17.1	12.9	31.7	30.7	17.4	19.7	7.57	12.6	42.7
MAX	23.2	24.0	32.6	20.3	14.6	46.5	34.7	19.9	29.8	7.71	14.8	62.7
(WY)	2004	2004	2004	2003	2004	2003	2004	2003	2003	2003	2003	2004
MIN	8.70	16.8	24.0	13.9	11.2	16.9	26.6	14.9	9.67	7.43	10.3	22.8
(WY)	2003	2003	2003	2004	2003	2004	2003	2004	2004	2004	2004	2003

e Estimated.

**SWATARA CREEK BASIN**

**01573482 MANADA CREEK AT MANADA GAP, PA--Continued**

<b>SUMMARY STATISTICS</b>	<b>FOR 2003 CALENDAR YEAR</b>		<b>FOR 2004 WATER YEAR</b>		<b>WATER YEARS 2002 - 2004</b>	
ANNUAL TOTAL	8521.3		8051.8			
ANNUAL MEAN	23.3		22.0		21.4	
HIGHEST ANNUAL MEAN					22.0	
LOWEST ANNUAL MEAN					20.8	
HIGHEST DAILY MEAN	201	Sep 23	1150	Sep 18	1150	Sep 18 2004
LOWEST DAILY MEAN	<b>e</b> 4.0	Feb 18	4.0	Jul 10,11	0.74	Sep 12 2002
ANNUAL SEVEN-DAY MINIMUM	<b>a</b> 4.6	Feb 14	4.5	Jul 5	1.1	Sep 12 2002
MAXIMUM PEAK FLOW			<b>b</b> 2800	Sep 18	<b>b</b> 2800	Sep 18 2004
MAXIMUM PEAK STAGE			12.09	Sep 18	12.09	Sep 18 2004
INSTANTANEOUS LOW FLOW			3.5	Jul 12	0.58	Sep 11 2002 <b>c</b>
ANNUAL RUNOFF (CFSM)	2.72		2.56		2.49	
ANNUAL RUNOFF (INCHES)	36.90		34.87		33.84	
10 PERCENT EXCEEDS	43		32		37	
50 PERCENT EXCEEDS	18		15		15	
90 PERCENT EXCEEDS	7.0		6.3		6.1	

**a** Computed using estimated daily discharges.

**b** From rating curve extended above 320 ft<sup>3</sup>/s on basis of indirect computation of peak flow at gage height 12.09 ft.

**c** Also Sept. 12, 2002.

**e** Estimated.