



# 2004 Water Year SWATARA CREEK BASIN

## 01572950 Indiantown Run near Harper Tavern, PA

Latitude: 40° 26 ' 20"

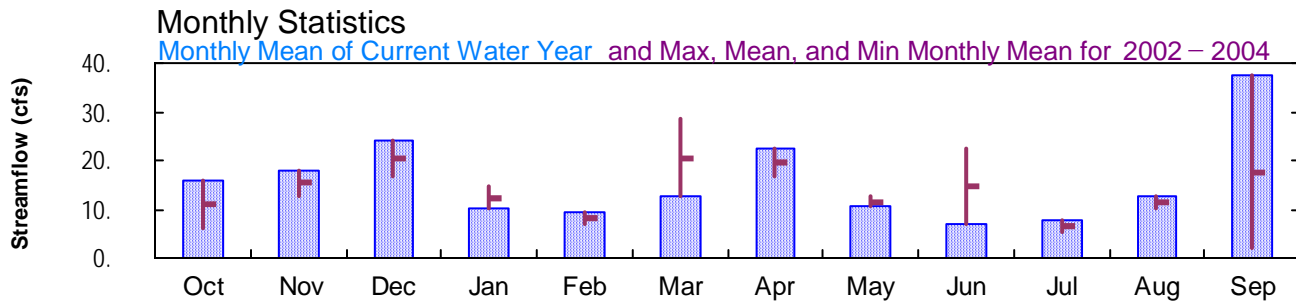
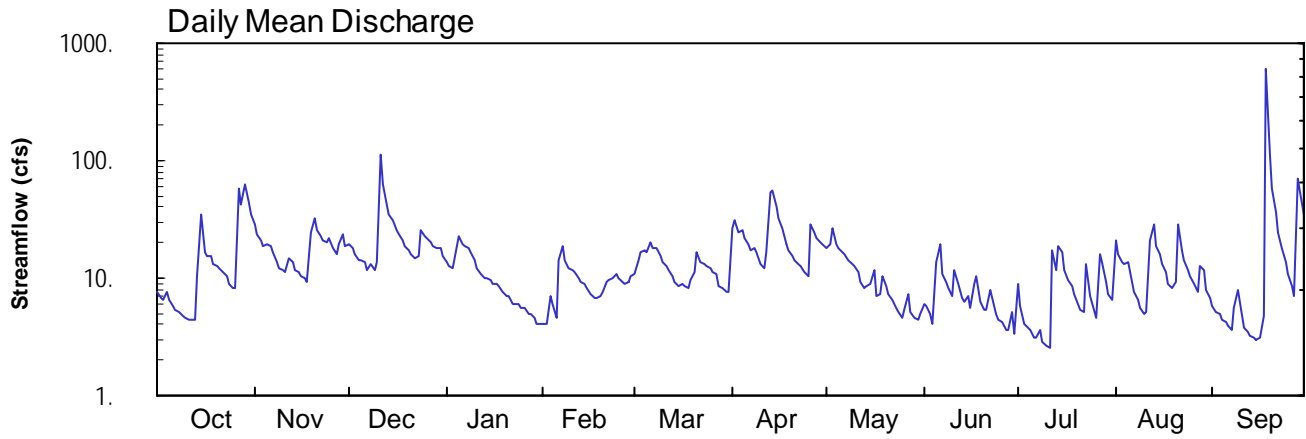
Longitude: 076° 35 ' 55"

Hydrologic Unit Code: 02050305

Lebanon County

Datum: feet

Drainage Area: 5.48 mi<sup>2</sup>



Looking downstream  
01572950-Indiantown Run near Harper Tavern

**SWATARA CREEK BASIN**

**01572950 INDIANTOWN RUN NEAR HARPER TAVERN, PA**

**LOCATION.**--Lat 40°26'20", long 76°35'55", Lebanon County, Hydrologic Unit 02050305, on left bank, 10 ft downstream from Lake Road bridge over Indiantown Run, 20 ft west of State Highway 443 in Indiantown Gap Military Reservation, 1,500 ft upstream from Marquette Lake, 1.9 mi upstream from State Memorial Lake dam and 2.5 mi north of Harper Tavern.

**DRAINAGE AREA.**--5.48 mi<sup>2</sup>.

**PERIOD OF RECORD.**--August 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 fair except those for estimated daily discharges and those for period July 13 to Sept. 30, which are poor. Satellite telemetry at station.

**PEAK DISCHARGES FOR CURRENT YEAR.**--Peak discharges greater than a base discharge of 150 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	0845	214	3.74	Sept. 28	1800	172	3.45
Sept. 18	0300	*2,520	*a9.31				

a From floodmark in gage.

**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	7.8	29	19	14	e4.0	11	26	18	6.2	8.8	21	5.8
2	7.3	24	18	13	e4.0	14	31	20	5.9	5.9	16	5.1
3	6.8	21	16	12	e7.0	17	25	27	4.9	4.1	13	4.9
4	7.7	19	14	15	e6.0	18	25	20	4.0	3.8	13	4.5
5	6.8	19	14	23	e4.5	17	22	19	13	3.6	14	4.2
6	6.2	19	14	19	14	21	19	17	19	3.1	9.2	4.0
7	5.9	17	12	18	19	18	18	16	11	3.1	7.7	3.7
8	5.6	14	13	18	14	18	18	14	9.1	3.6	6.4	5.5
9	5.3	12	12	17	12	15	17	13	8.2	2.8	5.5	7.9
10	5.0	12	13	14	12	14	13	13	7.1	2.6	5.0	5.0
11	5.0	11	112	e12	11	13	12	11	11	2.5	5.1	3.7
12	4.8	15	62	e11	10	12	16	9.4	8.9	17	21	3.4
13	4.7	13	43	e10	9.2	11	54	8.2	6.7	11	29	3.2
14	10	12	35	e10	8.8	9.4	56	8.8	6.3	18	19	3.1
15	35	11	31	e9.5	8.1	8.7	41	9.6	7.1	17	16	3.0
16	16	10	25	e9.0	7.3	8.8	32	12	5.5	12	13	3.1
17	15	9.8	24	e9.0	6.9	8.4	26	7.5	8.9	9.8	11	4.8
18	15	9.1	21	e8.5	6.7	8.3	20	7.3	10	8.5	9.0	e600
19	13	24	19	e7.5	7.0	9.6	18	10	6.3	7.4	8.2	114
20	12	32	18	e7.0	7.7	11	16	8.4	5.5	6.1	9.2	59
21	12	26	16	e7.0	9.1	17	15	7.2	5.3	5.3	29	36
22	11	23	15	e6.0	9.6	14	14	6.4	8.0	5.2	17	24
23	10	21	15	e6.0	10	13	13	5.6	6.7	13	14	18
24	9.1	21	26	e6.0	11	13	12	5.1	5.0	7.0	12	14
25	8.2	22	23	e5.5	9.9	12	11	4.7	4.5	5.3	10	11
26	8.3	18	22	e5.5	9.2	11	29	5.5	4.2	4.6	8.7	8.6
27	59	16	21	e5.0	9.0	11	24	7.4	3.7	16	7.7	7.0
28	43	20	19	e5.0	9.4	8.7	22	5.2	3.6	14	13	71
29	62	24	18	e4.5	10	8.2	21	4.6	5.1	9.4	12	53
30	44	19	18	e4.0	---	7.6	19	4.3	3.4	7.3	7.9	35
31	35	---	16	e4.0	---	7.6	---	5.1	---	6.5	6.7	---
TOTAL	496.5	542.9	744	315.0	266.4	386.3	685	330.3	214.1	244.3	389.3	1125.5
MEAN	16.0	18.1	24.0	10.2	9.19	12.5	22.8	10.7	7.14	7.88	12.6	37.5
MAX	62	32	112	23	19	21	56	27	19	18	29	600
MIN	4.7	9.1	12	4.0	4.0	7.6	11	4.3	3.4	2.5	5.0	3.0
CFSM	2.92	3.30	4.38	1.85	1.68	2.27	4.17	1.94	1.30	1.44	2.29	6.85
IN.	3.37	3.69	5.05	2.14	1.81	2.62	4.65	2.24	1.45	1.66	2.64	7.64

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

MEAN	11.0	15.4	20.3	12.4	8.00	20.5	19.9	11.6	14.7	6.50	11.5	17.6
MAX	16.0	18.1	24.0	14.6	9.19	28.6	22.8	12.5	22.4	7.88	12.6	37.5
(WY)	2004	2004	2004	2003	2004	2003	2004	2003	2003	2004	2004	2004
MIN	6.08	12.7	16.7	10.2	6.78	12.5	16.9	10.7	7.14	5.13	10.4	1.93
(WY)	2003	2003	2003	2004	2003	2004	2003	2004	2004	2003	2003	2002

e Estimated.

**SWATARA CREEK BASIN**

**01572950 INDIANTOWN RUN NEAR HARPER TAVERN, 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	5753.6		5739.6			
ANNUAL MEAN	15.8		15.7		14.8	
HIGHEST ANNUAL MEAN					15.7	
LOWEST ANNUAL MEAN					13.9	
HIGHEST DAILY MEAN	112	Dec 11	e600	Sep 18	e600	Sep 18 2004
LOWEST DAILY MEAN	3.1	Jul 17	2.5	Jul 11	0.83	Sep 10 2002
ANNUAL SEVEN-DAY MINIMUM	b3.5	Feb 11	3.0	Jul 5	0.88	Sep 5 2002
MAXIMUM PEAK FLOW			c2520	Sep 18	c2520	Sep 18 2004
MAXIMUM PEAK STAGE			a9.31	Sep 18	9.31	Sep 18 2004
INSTANTANEOUS LOW FLOW			2.4	Jul 11,12	0.78	Sep 9-11 2002
ANNUAL RUNOFF (CFSM)	2.88		2.86		2.69	
ANNUAL RUNOFF (INCHES)	39.06		38.96		36.62	
10 PERCENT EXCEEDS	30		24		26	
50 PERCENT EXCEEDS	13		11		11	
90 PERCENT EXCEEDS	4.5		4.8		4.2	

**a** From floodmark in gage.

**b** Computed using estimated daily discharges.

**c** From rating curve extended above 124 ft<sup>3</sup>/s on basis of slope-area measurement of peak flow at gage height 9.31 ft.

**e** Estimated.