



2005 Water Year
SWATARA CREEK BASIN
01573560 Swatara Creek near Hershey, PA

Latitude: 40° 17' 54"

Longitude: 076° 40' 05"

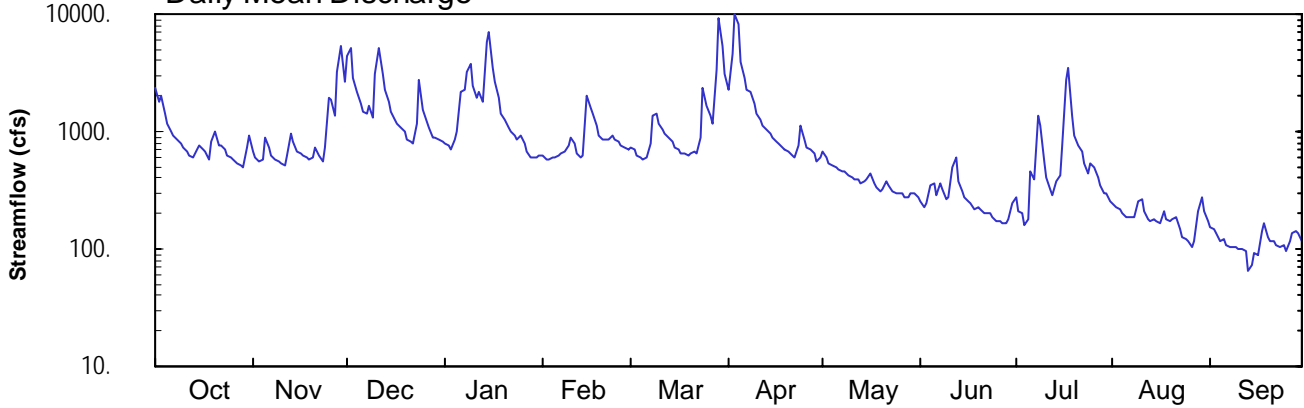
Hydrologic Unit Code: 02050305

Dauphin County

Datum: 325.94 feet

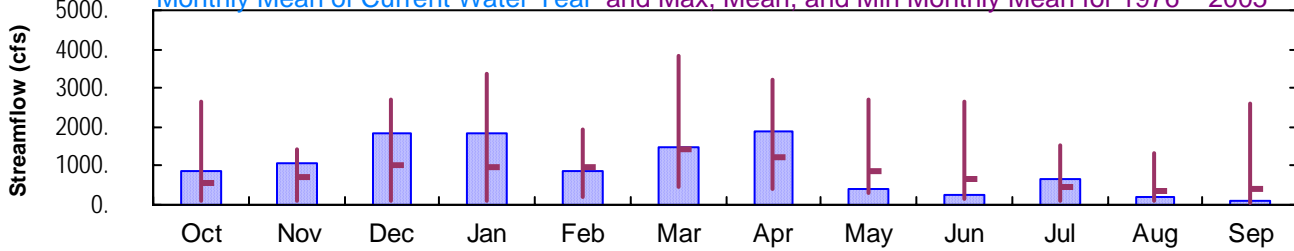
Drainage Area: 483. mi²

Daily Mean Discharge

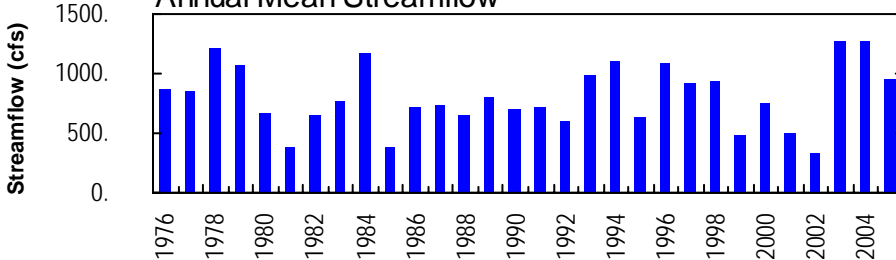


Monthly Statistics

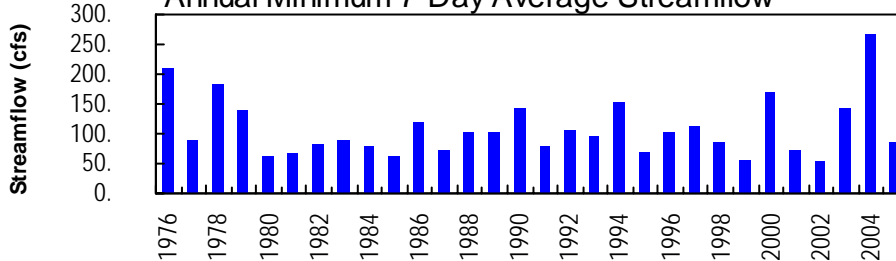
Monthly Mean of Current Water Year and Max, Mean, and Min Monthly Mean for 1976 – 2005



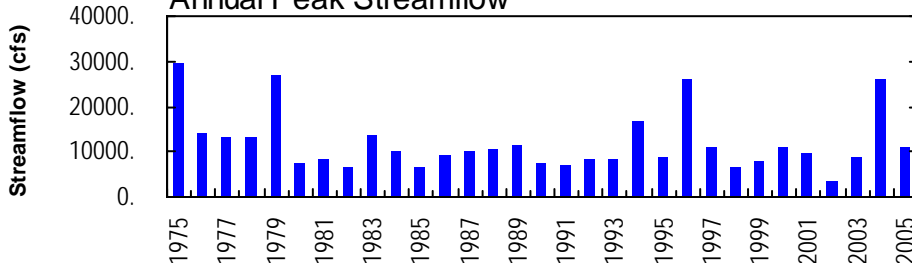
Annual Mean Streamflow



Annual Minimum 7-Day Average Streamflow



Annual Peak Streamflow



SWATARA CREEK BASIN

01573560 SWATARA CREEK NEAR HERSHEY, PA

LOCATION.--Lat 40°17'54", long 76°40'05", Dauphin County, Hydrologic Unit 02050305, on left bank, 0.4 mi downstream from Manada Creek, 0.5 mi upstream from State Highway 39, and 1.5 mi northwest of Hershey.

DRAINAGE AREA.--483 mi².

PERIOD OF RECORD.--October 1975 to current year.

GAGE.--Water-stage recorder and gated concrete control. Datum of gage is 325.94 ft above National Geodetic Vertical Datum of 1929 (levels by Susquehanna River Basin Commission).

REMARKS.--Records fair except for estimated daily discharges, which are poor. The Pennsylvania American Water Company diverts water upstream from station for municipal supply of city of Lebanon. Diversion for the year was equivalent to a mean daily discharge of 11.1 ft³/s. In addition, water is diverted just upstream from the station for 9 municipalities in Dauphin and Lebanon Counties. Diversion for the year was equivalent to a mean daily discharge of 6.7 ft³/s. Satellite and landline telemetry at station.

COOPERATION.--Records of daily diversion furnished by Pennsylvania American Water Company.

PEAK DISCHARGES FOR CURRENT YEAR.--Peak discharges greater than a base discharge of 6,900 ft³/s and maximum (*):

Date	Time	Discharge ft ³ /s	Gage Height (ft)	Date	Time	Discharge ft ³ /s	Gage Height (ft)
Nov. 29	0530	7,050	6.14	Mar. 29	1730	9,970	7.51
Jan. 15	0330	8,880	7.01	Apr. 3	2315	*11,100	*8.01

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	2380	675	4430	803	618	733	2280	687	250	274	243	155
2	1780	600	5090	757	575	702	4500	604	229	211	229	145
3	2000	560	2920	695	583	629	9990	543	248	199	215	136
4	1400	590	2170	851	592	594	8340	510	348	163	205	117
5	1160	895	1760	1010	592	569	3960	499	358	182	184	121
6	1020	726	1460	2170	618	603	2890	477	285	464	186	108
7	930	627	1440	2260	650	781	2290	465	362	389	189	103
8	853	576	1680	3190	667	1380	2220	452	e320	1360	190	105
9	790	554	1330	3710	754	1430	1730	424	e270	1110	253	102
10	720	530	3080	2450	882	1170	1450	405	272	548	270	99
11	676	522	5130	1960	800	1040	1280	395	488	406	207	99
12	632	616	3110	2190	664	955	1150	387	611	323	181	95
13	600	981	2270	1800	613	883	1060	361	377	287	176	64
14	698	827	1800	5840	638	808	955	370	315	379	179	73
15	763	687	1500	6970	2010	739	889	387	279	419	172	94
16	717	660	1280	3550	1620	706	832	433	252	774	165	89
17	673	633	1160	2640	1430	663	780	357	248	2730	212	144
18	575	610	1080	1950	1130	644	739	332	222	3460	179	165
19	834	587	983	e1400	923	632	706	315	230	1360	174	125
20	990	596	863	e1250	851	641	683	324	219	910	183	116
21	776	735	e825	e1100	845	664	633	370	202	750	188	116
22	759	634	790	e1000	842	655	597	354	202	690	146	110
23	716	553	1160	e940	931	890	768	315	202	528	128	103
24	637	738	2800	e870	864	2310	1140	296	187	449	123	110
25	600	1970	1560	e920	808	1650	868	295	e175	526	115	95
26	577	1880	1220	e800	761	1350	725	294	e170	497	104	116
27	543	1380	1070	e670	732	1180	703	273	e165	400	116	137
28	507	3250	897	e600	693	3370	e650	272	165	354	206	142
29	489	5390	897	e600	---	9350	558	301	180	302	279	138
30	719	2640	848	e610	---	5250	607	300	241	296	208	117
31	925	---	826	e620	---	3050	---	272	---	260	174	---
TOTAL	27439	32222	57429	56176	23686	46021	55973	12069	8072	21000	5779	3439
MEAN	885	1074	1853	1812	846	1485	1866	389	269	677	186	115
MAX	2380	5390	5130	6970	2010	9350	9990	687	611	3460	279	165
MIN	489	522	790	600	575	569	558	272	165	163	104	64
CFSM	1.83	2.22	3.84	3.75	1.75	3.07	3.86	0.81	0.56	1.40	0.39	0.24
IN.	2.11	2.48	4.42	4.33	1.82	3.54	4.31	0.93	0.62	1.62	0.45	0.26

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1976 - 2005, BY WATER YEAR (WY)

MEAN	584	739	1021	985	951	1410	1239	863	649	454	352	413
MAX	2632	1427	2693	3370	1963	3848	3207	2708	2641	1536	1346	2592
(WY)	1977	1993	1997	1979	1998	1994	1993	1989	2003	1989	2003	2004
MIN	85.3	109	111	79.9	220	459	420	295	158	78.9	81.8	73.0
(WY)	1981	2002	1981	1981	2002	1985	1995	1999	1999	1999	2002	1980

e Estimated.

SWATARA CREEK BASIN

01573560 SWATARA CREEK NEAR HERSHEY, PA--Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1976 - 2005	
ANNUAL TOTAL	433927		349305			
ANNUAL MEAN	1186		957		804	
HIGHEST ANNUAL MEAN					1268	2004
LOWEST ANNUAL MEAN					327	2002
HIGHEST DAILY MEAN	23500	Sep 19	9990	Apr 3	23800	Jan 25 1979
LOWEST DAILY MEAN	219	Jul 11	64	Sep 13	29	Aug 6 2002
ANNUAL SEVEN-DAY MINIMUM	266	Jul 5	88	Sep 10	52	Aug 6 2002
MAXIMUM PEAK FLOW			11100	Apr 3	29400	Sep 27 1975
MAXIMUM PEAK STAGE			8.01	Apr 3	15.36	Sep 27 1975
INSTANTANEOUS LOW FLOW			57	Sep 13,14	24	Aug 5 2002 ^a
ANNUAL RUNOFF (CFSM)	2.45		1.98		1.67	
ANNUAL RUNOFF (INCHES)	33.42		26.90		22.63	
10 PERCENT EXCEEDS	2230		2180		1770	
50 PERCENT EXCEEDS	790		632		460	
90 PERCENT EXCEEDS	400		164		132	

^a Also Aug. 6, Sept. 10, 14, 15, 21.

