

SWATARA CREEK BASIN

01572025 SWATARA CREEK NEAR PINE GROVE, PA

LOCATION.--Lat 40°31'57", long 76°24'09", Schuylkill County, Hydrologic Unit 02050305, on right bank 1.0 mi downstream from Lower Little Swatara Creek, 1.3 mi southwest of Pine Grove, and 1.6 mi upstream from bridge on Interstate Highway 81.

DRAINAGE AREA.--116 mi².

PERIOD OF RECORD.--October 1988 to January 1991, October 1991 to current year.

REVISED RECORDS.--WDR PA-90-2: 1989.

GAGE.--Water-stage recorder. Datum of gage is 480.66 ft above North American Vertical Datum of 1988.

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

PEAK DISCHARGES FOR CURRENT YEAR.--Peak discharges greater than a base discharge of 1,500 ft³/s and maximum (*):

Date	Time	Discharge ft ³ /s	Gage Height (ft)	Date	Time	Discharge ft ³ /s	Gage Height (ft)
Nov. 28	1245	3,240	10.78	Jan. 14	1145	3,010	10.45
Dec. 1	1215	2,330	9.38	Mar. 29	0100	3,270	10.83
Dec. 10	2000	1,770	8.34	Apr. 3	0545	*4,130	*11.69
Dec. 23	1830	1,540	7.85				

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	522	195	1540	222	e130	180	576	168	62	42	40	34
2	418	178	1130	202	e135	165	1620	140	59	45	39	29
3	374	168	779	205	e138	150	3220	131	68	39	39	27
4	313	184	598	253	e140	142	1500	124	100	34	35	26
5	272	224	490	260	138	138	976	119	75	37	33	24
6	242	182	411	659	139	143	752	117	72	64	33	24
7	222	168	435	593	142	193	615	113	116	74	33	23
8	205	159	418	818	152	435	545	107	75	321	41	22
9	191	148	357	791	179	391	441	102	68	148	56	23
10	180	141	1040	584	223	308	384	100	75	86	42	21
11	166	140	1230	475	178	271	337	98	64	65	36	20
12	156	235	769	509	156	243	302	94	61	62	38	21
13	150	264	588	435	143	225	279	88	57	61	32	20
14	197	216	468	2190	230	210	254	89	54	62	31	21
15	194	204	389	1380	693	196	228	146	51	88	31	23
16	235	195	343	877	466	193	210	100	49	126	32	25
17	178	186	315	676	377	191	199	89	50	238	34	49
18	153	177	284	e500	306	192	187	84	46	240	30	30
19	281	167	267	e400	256	197	174	79	46	140	40	26
20	247	169	228	e360	231	207	164	94	44	103	36	25
21	215	183	215	e300	235	215	154	93	43	84	32	24
22	218	160	205	e250	228	204	146	83	42	75	28	22
23	188	154	608	e215	232	377	208	79	39	66	28	23
24	176	297	715	e225	211	664	290	76	38	59	26	21
25	166	752	465	e200	198	525	192	76	36	83	25	19
26	155	575	372	e185	181	430	162	71	36	63	25	23
27	147	441	318	e165	171	373	174	67	34	58	24	29
28	140	2080	271	e150	169	1270	152	70	34	52	60	24
29	134	1330	260	e130	---	2230	139	80	36	47	43	25
30	289	801	244	e120	---	1060	155	78	63	44	35	24
31	230	---	232	e125	---	736	---	67	---	42	35	---
TOTAL	6954	10473	15984	14454	6177	12454	14735	3022	1693	2748	1092	747
MEAN	224	349	516	466	221	402	491	97.5	56.4	88.6	35.2	24.9
MAX	522	2080	1540	2190	693	2230	3220	168	116	321	60	49
MIN	134	140	205	120	130	138	139	67	34	34	24	19
CFSM	1.93	3.01	4.44	4.02	1.90	3.46	4.23	0.84	0.49	0.76	0.30	0.21
IN.	2.23	3.36	5.13	4.64	1.98	3.99	4.73	0.97	0.54	0.88	0.35	0.24

STATISTICS OF MONTHLY MEAN DATA FOR PERIOD OF DAILY RECORD, BY WATER YEAR (WY)

MEAN	142	215	280	276	227	386	336	247	205	124	95.0	116
MAX	361	396	745	683	555	846	874	756	772	378	330	558
(WY)	1997	1993	1997	1996	1998	1994	1993	1989	2003	1989	2003	2004
MIN	27.3	32.1	27.4	70.4	82.8	185	135	91.9	46.6	23.1	19.7	24.9
(WY)	2002	2002	1999	2002	2002	1990	1995	1999	1999	1999	2002	2005

e Estimated.

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01572025 SWATARA CREEK NEAR PINE GROVE, PA--Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		FOR PERIOD OF DAILY RECORD	
ANNUAL TOTAL	106153		90533			
ANNUAL MEAN	290		248		218	
HIGHEST ANNUAL MEAN					332	
LOWEST ANNUAL MEAN					104	
HIGHEST DAILY MEAN	6790	Sep 18	3220	Apr 3	6790	Sep 18 2004
LOWEST DAILY MEAN	51	Jul 11	19	Sep 25	14	Aug 7 1999
ANNUAL SEVEN-DAY MINIMUM	57	Jul 5	21	Sep 8	15	Sep 8 2002
MAXIMUM PEAK FLOW			a4130	Apr 3	a13500	Sep 18 2004
MAXIMUM PEAK STAGE			11.69	Apr 3	b15.28	Sep 18 2004
INSTANTANEOUS LOW FLOW			18	Sep 25	13	Sep 10 2002c
ANNUAL RUNOFF (CFSM)	2.50		2.14		1.88	
ANNUAL RUNOFF (INCHES)	34.04		29.03		25.58	
10 PERCENT EXCEEDS	517		575		449	
50 PERCENT EXCEEDS	196		156		137	
90 PERCENT EXCEEDS	102		31		35	

- a From rating curve extended above 3,300 ft³/s on basis of slope-area measurement at gage height 15.28 ft.
- b From floodmark in gage.
- c Also Sept. 12, 14, 2002.

