

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)
May 18	1015	*1,220	*7.19	(No peaks above base discharge.)			

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	28	21	89	e35	127	53	316	330	120	55	22	24
2	28	21	60	e34	121	52	247	600	111	54	22	25
3	27	21	51	e35	109	238	223	547	104	51	21	21
4	25	20	47	36	104	149	205	418	98	48	20	19
5	24	20	41	35	e90	121	186	348	99	47	21	19
6	24	19	36	e36	e86	115	173	299	121	44	23	17
7	23	20	40	e42	86	107	162	270	163	42	21	16
8	24	19	43	39	83	100	153	240	108	43	20	15
9	25	18	99	34	78	99	151	280	95	41	19	16
10	25	19	70	37	76	163	184	250	90	46	19	15
11	25	18	57	56	132	126	149	203	86	40	18	14
12	25	17	51	75	101	118	138	198	84	37	17	16
13	23	18	50	68	92	118	140	250	90	36	18	15
14	26	18	68	57	84	115	160	363	116	34	18	14
15	96	18	82	54	82	108	663	271	115	31	19	25
16	44	19	64	56	82	106	448	233	95	29	26	78
17	39	18	63	54	81	100	351	211	83	27	19	32
18	31	17	152	51	74	164	293	812	78	26	17	24
19	26	18	129	e42	70	174	286	612	87	26	17	20
20	24	20	105	e53	71	384	291	446	88	27	16	19
21	23	19	90	46	71	479	243	360	72	26	15	20
22	22	19	77	43	66	341	246	302	68	27	15	20
23	22	18	69	44	63	275	218	264	64	42	18	80
24	22	18	76	138	59	238	192	237	63	42	22	36
25	21	142	65	216	57	213	191	210	62	31	22	25
26	21	154	56	163	58	293	182	195	60	27	18	27
27	21	62	e50	136	60	829	163	179	78	27	17	244
28	20	46	e45	123	56	515	315	163	102	29	18	286
29	20	41	e41	115	---	391	423	151	67	26	27	100
30	21	64	e40	113	---	325	351	138	59	25	25	64
31	20	---	e38	115	---	282	---	130	---	22	20	---
TOTAL	845	962	2044	2181	2319	6891	7443	9510	2726	1108	610	1346
MEAN	27.3	32.1	65.9	70.4	82.8	222	248	307	90.9	35.7	19.7	44.9
MAX	96	154	152	216	132	829	663	812	163	55	27	286
MIN	20	17	36	34	56	52	138	130	59	22	15	14
CFSM	0.23	0.28	0.57	0.61	0.71	1.92	2.14	2.64	0.78	0.31	0.17	0.39
IN.	0.27	0.31	0.66	0.70	0.74	2.21	2.39	3.05	0.87	0.36	0.20	0.43

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

MEAN	121	193	240	265	239	382	324	261	175	113	70.7	74.9
MAX	361	396	745	683	555	846	874	756	317	378	155	178
(WY)	1997	1993	1997	1996	1998	1994	1993	1989	1989	1989	1994	1999
MIN	27.3	32.1	27.4	70.4	82.8	185	135	91.9	46.6	23.1	19.7	26.1
(WY)	2002	2002	1999	2002	2002	1990	1995	1999	1999	1999	2002	1995

e Estimated.

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01572025 SWATARA CREEK NEAR PINE GROVE, PA--Continued

SUMMARY STATISTICS	FOR 2001 CALENDAR YEAR		FOR 2002 WATER YEAR		FOR PERIOD OF DAILY RECORD	
ANNUAL TOTAL	42252		37985			
ANNUAL MEAN	116		104		201	
HIGHEST ANNUAL MEAN					273	1994
LOWEST ANNUAL MEAN					104	2002
HIGHEST DAILY MEAN	743	Mar 30	829	Mar 27	4130	Nov 28 1993
LOWEST DAILY MEAN	17	Nov 12,18	14	Sep 11,14	14	Aug 7 1999
ANNUAL SEVEN-DAY MINIMUM	18	Nov 12	15	Sep 8	15	Sep 8 2002
MAXIMUM PEAK FLOW			1220	May 18	a5880	Nov 28 1993
MAXIMUM PEAK STAGE			7.19	May 18	14.17	Nov 28 1993
INSTANTANEOUS LOW FLOW			13	Sep 10 b	13	Sep 10 2002 b
ANNUAL RUNOFF (CFSM)	1.00		0.90		1.74	
ANNUAL RUNOFF (INCHES)	13.55		12.18		23.59	
10 PERCENT EXCEEDS	291		266		415	
50 PERCENT EXCEEDS	80		58		120	
90 PERCENT EXCEEDS	21		19		32	

a From rating curve extended above 3,300 ft³/s on basis of step-backwater analysis.
b Also Sept. 12, 14, 2002.

