

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 sea level, using NAVD 1988 datum.

REMARKS.--Records good except those for estimated daily discharges, which are fair. 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)
Dec. 17	1215	*3,910	*11.83	No other peak greater than base discharge.			

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	58	44	84	e93	293	194	449	143	65	122	40	48
2	56	44	74	e85	313	190	376	137	107	126	37	26
3	55	43	66	e77	279	179	322	129	145	93	39	23
4	67	43	66	e73	232	175	301	120	106	98	63	23
5	102	42	66	105	222	186	260	114	85	142	80	31
6	79	42	63	106	205	167	327	106	75	119	47	26
7	65	42	61	100	195	165	326	101	69	92	40	22
8	57	41	59	99	184	181	291	100	64	85	35	20
9	54	42	56	96	181	197	291	99	57	88	31	20
10	53	91	53	89	340	202	329	93	54	82	33	23
11	52	73	e53	87	316	199	323	88	56	80	35	28
12	48	55	e54	86	258	196	343	85	67	71	35	23
13	47	51	e51	80	234	466	320	81	92	66	36	20
14	44	52	e86	78	227	439	292	78	67	60	35	24
15	42	50	108	82	263	366	270	75	71	57	32	21
16	43	46	181	83	255	335	419	71	86	54	30	19
17	51	46	2850	82	289	357	368	70	220	51	29	19
18	119	43	1380	81	239	333	414	72	101	46	24	18
19	105	41	719	151	221	294	349	70	85	43	23	19
20	72	41	512	228	218	276	317	65	103	39	37	21
21	62	41	e369	173	207	300	295	83	279	37	27	26
22	56	38	e296	e142	180	352	269	178	313	35	32	21
23	53	e35	e249	e128	e172	293	249	135	289	33	30	19
24	52	e34	e212	e117	162	269	229	93	213	32	24	39
25	51	e33	e191	e110	201	245	208	78	169	63	22	239
26	50	132	e173	e107	248	227	193	85	141	103	21	80
27	50	126	e158	e102	220	210	180	89	125	55	21	55
28	49	88	e143	98	204	194	168	104	112	45	22	46
29	45	79	e130	93	---	191	154	86	103	45	21	34
30	45	98	e116	211	---	743	149	76	96	44	19	28
31	45	---	e105	304	---	568	---	69	---	43	29	---
TOTAL	1827	1676	8784	3546	6558	8689	8781	2973	3615	2149	1029	1061
MEAN	58.9	55.9	283	114	234	280	293	95.9	120	69.3	33.2	35.4
MAX	119	132	2850	304	340	743	449	178	313	142	80	239
MIN	42	33	51	73	162	165	149	65	54	32	19	18
CFSM	.51	.48	2.44	.99	2.02	2.42	2.52	.83	1.04	.60	.29	.30
IN.	.59	.54	2.82	1.14	2.10	2.79	2.82	.95	1.16	.69	.33	.34

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

MEAN	128	206	254	280	251	396	330	257	182	119	74.9	77.4
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	34.3	34.6	27.4	91.9	104	185	135	91.9	46.6	23.1	28.0	26.1
(WY)	1998	1999	1999	1992	1993	1990	1995	1999	1999	1999	1999	1995

e Estimated.

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01572025 SWATARA CREEK NEAR PINE GROVE, PA--Continued

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		FOR PERIOD OF DAILY RECORD	
ANNUAL TOTAL	74940		50688			
ANNUAL MEAN	205		139		209	
HIGHEST ANNUAL MEAN					273	
LOWEST ANNUAL MEAN					127	
HIGHEST DAILY MEAN	2850 Dec 17		2850 Dec 17		4130 Nov 28 1993	
LOWEST DAILY MEAN	e33 Nov 25		18 Sep 18		14 Aug 7 1999	
ANNUAL SEVEN-DAY MINIMUM	a38 Nov 19		20 Sep 13		16 Aug 1 1999	
MAXIMUM PEAK FLOW			b3910 Dec 17		b5880 Nov 28 1993	
MAXIMUM PEAK STAGE			11.83 Dec 17		14.17 Nov 28 1993	
INSTANTANEOUS LOW FLOW			17 Sep 20		14 Aug 8 1999	
ANNUAL RUNOFF (CFSM)	1.77		1.20		1.81	
ANNUAL RUNOFF (INCHES)	24.03		16.26		24.53	
10 PERCENT EXCEEDS	418		295		435	
50 PERCENT EXCEEDS	120		85		129	
90 PERCENT EXCEEDS	46		31		37	

- a Computed using estimated daily discharges.
- b From rating curve extended above 3,300 ft³/s on basis of step-backwater analysis.
- e Estimated.

