

## WEST BRANCH SUSQUEHANNA RIVER BASIN

## 01543500 SINNEMAHONING CREEK AT SINNEMAHONING, PA

**LOCATION.**--Lat 41°19'02", long 78°06'12", Cameron County, Hydrologic Unit 02050202, on left bank 0.2 mi upstream from Grove Run, and 0.7 mi upstream from Penn Central Railroad bridge at Sinnemahoning.

**DRAINAGE AREA.**--685 mi<sup>2</sup>.

**PERIOD OF RECORD.**--July 1938 to current year. Prior to October 1938 monthly discharge only, published in WSP 1302.

**GAGE.**--Water-stage recorder. Datum of gage is 769.36 ft above sea level.

**REMARKS.**--Records good except those for estimated daily discharges, which are poor. Several measurements of water temperature were made during the year. Satellite and landline telemetry at station.

**EXTREMES OUTSIDE PERIOD OF RECORD.**--Maximum stage known, 21.94 ft, Mar. 18, 1936, from floodmark, discharge, 61,200 ft<sup>3</sup>/s, from rating curve extended above 31,000 ft<sup>3</sup>/s on basis of slope-area measurement at gage height 21.58 ft.

**PEAK DISCHARGES FOR CURRENT YEAR.**--Peak discharges greater than a base discharge of 8,400 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)
Mar. 22	0800	*7,410	*6.71	(No peaks above 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	167	215	609	e400	e910	626	1590	750	770	493	56	290
2	151	208	549	e380	e770	656	1670	695	902	636	51	207
3	138	200	e440	e320	e720	609	1660	639	1120	436	46	105
4	128	193	e400	e280	e620	578	1640	580	1000	371	107	71
5	146	189	e530	e320	e670	589	1540	534	860	357	95	56
6	889	182	e470	e320	e620	508	1760	485	771	329	65	50
7	753	172	e400	e300	e560	591	2410	441	708	269	52	43
8	507	164	e550	e260	e530	506	2680	411	619	246	43	39
9	419	165	e440	e240	e590	482	2500	420	538	242	39	38
10	376	296	e400	e260	e2000	447	2390	399	478	218	38	37
11	343	473	e460	e280	e2800	395	2060	372	469	293	37	33
12	300	407	e920	e240	e2200	398	1800	414	436	283	39	32
13	266	353	1090	e260	1860	850	1540	433	388	201	38	31
14	243	338	944	e280	1750	2010	1310	359	330	167	35	67
15	226	328	917	e300	3230	1830	1160	344	286	143	33	167
16	216	313	809	e300	3410	1630	2320	311	268	131	32	85
17	217	299	2610	e300	3180	1900	2810	286	331	145	61	54
18	469	294	3220	e280	2460	2020	2640	280	260	165	92	44
19	562	277	2390	e280	2010	1900	2270	274	220	155	63	39
20	422	262	1850	e300	1750	1890	1940	251	193	120	53	41
21	378	254	e1400	e280	1570	2150	2460	245	235	101	43	43
22	350	e240	1150	e260	1130	6480	2280	357	1030	86	39	51
23	318	e220	e760	e240	e1000	4940	2190	1440	3230	78	39	53
24	299	e210	e720	e260	e860	3740	1990	965	3410	72	47	59
25	307	e200	e640	e280	e840	2890	1670	763	1980	67	57	333
26	295	360	e580	e240	931	2290	1390	940	1290	82	48	337
27	278	827	e590	e220	790	1820	1220	1550	927	92	123	189
28	274	719	e530	e220	707	1500	1070	1710	720	71	165	151
29	256	661	e500	e200	---	1310	916	1420	582	57	92	137
30	236	649	e460	e240	---	1440	816	1140	490	53	66	107
31	224	---	e420	e700	---	1620	---	899	---	56	60	---
TOTAL	10153	9668	27748	9040	40468	50595	55692	20107	24841	6215	1854	2989
MEAN	328	322	895	292	1445	1632	1856	649	828	200	59.8	99.6
MAX	889	827	3220	700	3410	6480	2810	1710	3410	636	165	337
MIN	128	164	400	200	530	395	816	245	193	53	32	31
CFSM	.48	.47	1.31	.43	2.11	2.38	2.71	.95	1.21	.29	.09	.15
IN.	.55	.53	1.51	.49	2.20	2.75	3.02	1.09	1.35	.34	.10	.16

## STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1939 - 2001, BY WATER YEAR (WY)

MEAN	466	963	1267	1247	1458	2442	2325	1572	836	418	299	316
MAX	2186	4836	2883	4349	3732	5608	5500	3771	4066	2134	2596	1706
(WY)	1991	1951	1973	1952	1976	1945	1940	1953	1972	1992	1994	1975
MIN	31.5	52.0	64.1	91.8	257	771	556	313	97.3	37.9	28.7	29.6
(WY)	1965	1965	1961	1961	1963	1981	1946	1941	1999	1966	1957	1939

e Estimated.

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SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1939 - 2001	
ANNUAL TOTAL	320066		259370		1132	
ANNUAL MEAN	874		711		1798	
HIGHEST ANNUAL MEAN					1951	
LOWEST ANNUAL MEAN					705	
HIGHEST DAILY MEAN	7240	Feb 26	6480	Mar 22	44000	Jun 23 1972
LOWEST DAILY MEAN	43	Sep 10	31	Sep 13	1.4	Sep 3 1939
ANNUAL SEVEN-DAY MINIMUM	52	Sep 5	36	Aug 10	4.2	Aug 29 1939
MAXIMUM PEAK FLOW			7410	Mar 22	<sup>a</sup> 60800	Jun 23 1972
MAXIMUM PEAK STAGE			6.71	Mar 22	21.78	Jun 23 1972
INSTANTANEOUS LOW FLOW					1.2	Sep 4 1939
ANNUAL RUNOFF (CFSM)	1.28		1.04		1.65	
ANNUAL RUNOFF (INCHES)	17.38		14.09		22.45	
10 PERCENT EXCEEDS	1940		1920		2740	
50 PERCENT EXCEEDS	477		378		560	
90 PERCENT EXCEEDS	128		56		70	

<sup>a</sup> From rating curve extended above 31,000 ft<sup>3</sup>/s on basis of slope-area measurement at gage height 21.58 ft.

