

## 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)
Jan. 24	1400	*15,700	*9.88	No other peak greater than base discharge.			

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	36	56	67	e210	1430	911	3540	907	168	120	42	25
2	31	54	65	e200	1720	753	3940	801	168	374	60	22
3	29	52	65	e220	2140	738	3510	716	215	410	62	20
4	33	50	62	e250	2340	2680	3340	659	202	186	41	18
5	50	47	62	e230	2420	2150	2980	613	163	119	36	16
6	61	47	68	e220	2200	1950	2380	572	139	93	38	16
7	50	47	71	e210	2030	1630	2060	539	127	140	43	27
8	270	47	71	e200	1770	e1200	1700	521	120	148	40	53
9	489	47	70	e280	1430	e1100	2140	613	110	89	44	57
10	332	e50	68	e330	1400	e1000	3960	522	101	153	50	42
11	248	e70	63	e320	e1300	e920	3920	449	99	186	47	33
12	172	90	61	e300	e1800	e870	4310	411	95	111	37	27
13	126	96	e52	e330	2160	e800	3530	384	85	80	31	24
14	104	79	e43	e360	2020	e800	2840	362	79	65	36	25
15	89	69	e37	e410	1750	787	2250	334	81	56	64	32
16	81	64	e40	e400	1550	805	1950	302	85	50	84	49
17	74	61	e62	e380	1560	942	2070	279	77	46	61	107
18	67	59	e58	e600	1800	2260	1910	263	70	107	43	112
19	63	58	e62	e1400	1690	2630	1840	260	68	65	37	67
20	82	56	65	e1500	1530	2250	2010	256	64	60	32	49
21	85	60	77	e1400	1300	2220	2000	232	57	59	47	45
22	74	64	2420	e980	e1000	2460	2070	215	52	56	81	42
23	69	66	e2000	e1400	e840	2070	2140	216	48	52	59	46
24	63	61	e1100	e12000	e820	1960	2730	244	44	47	43	41
25	60	58	e730	8490	e740	2130	2590	530	42	48	36	36
26	56	59	e580	4490	699	2060	2310	380	40	45	34	31
27	54	69	e540	2930	630	2080	1920	300	37	44	36	29
28	54	81	e500	2350	682	2300	1530	255	46	37	47	27
29	57	76	e400	2390	---	2750	1250	222	111	32	51	28
30	61	69	e330	2070	---	3130	1040	201	126	31	37	338
31	61	---	e240	1720	---	3190	---	179	---	39	30	---
TOTAL	3181	1862	10129	48570	42751	53526	75760	12737	2919	3148	1429	1484
MEAN	103	62.1	327	1567	1527	1727	2525	411	97.3	102	46.1	49.5
MAX	489	96	2420	12000	2420	3190	4310	907	215	410	84	338
MIN	29	47	37	200	630	738	1040	179	37	31	30	16
CFSM	.15	.09	.48	2.29	2.23	2.52	3.69	.60	.14	.15	.07	.07
IN.	.17	.10	.55	2.64	2.32	2.91	4.11	.69	.16	.17	.08	.08

## STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1939 - 1999, BY WATER YEAR (WY)

MEAN	474	980	1279	1272	1460	2469	2327	1594	835	425	304	323
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

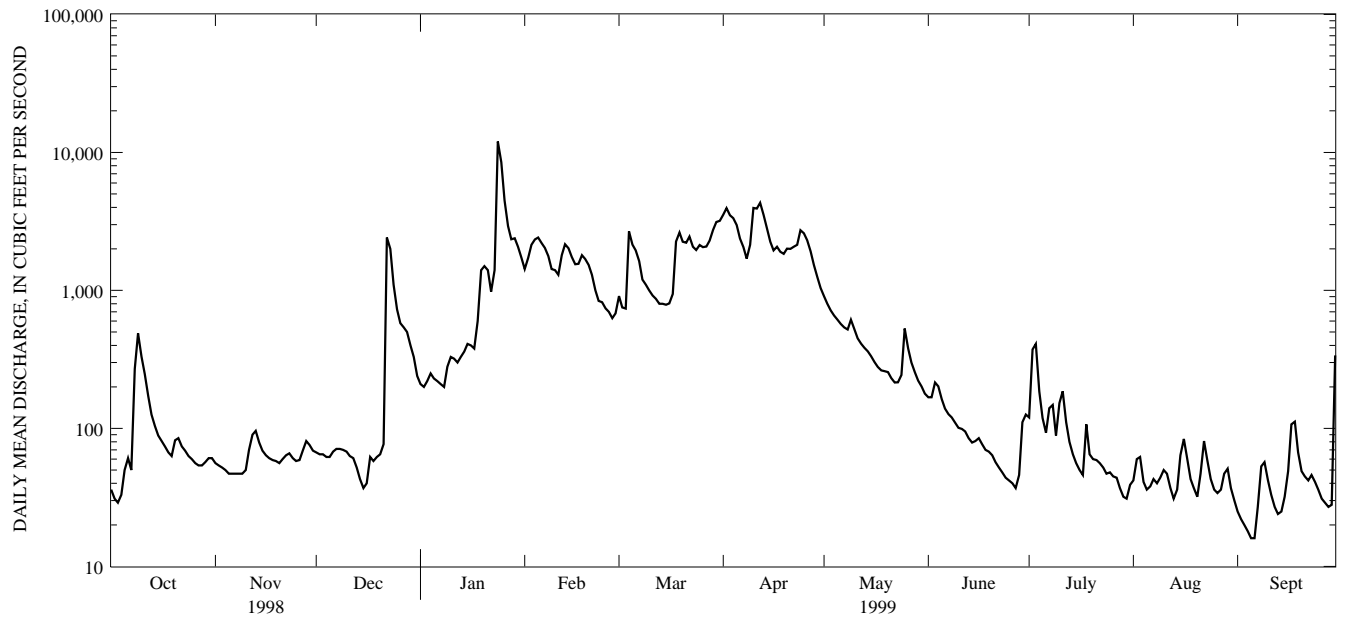
e Estimated.

WEST BRANCH SUSQUEHANNA RIVER BASIN

01543500 SINNEMAHONING CREEK AT SINNEMAHONING, PA--Continued

SUMMARY STATISTICS	FOR 1998 CALENDAR YEAR			FOR 1999 WATER YEAR			WATER YEARS 1939 - 1999		
ANNUAL TOTAL	324161			257496			1143		
ANNUAL MEAN	888			705			1798		
HIGHEST ANNUAL MEAN							1951		
LOWEST ANNUAL MEAN							1999		
HIGHEST DAILY MEAN	11800	Jan	8	e12000	Jan	24	44000	Jun	23 1972
LOWEST DAILY MEAN	19	Aug	9	16	Sep	5,6	1.4	Sep	3 1939
ANNUAL SEVEN-DAY MINIMUM	24	Aug	3	21	Sep	1	4.2	Aug	29 1939
INSTANTANEOUS PEAK FLOW				15700	Jan	24	a60800	Jun	23 1972
INSTANTANEOUS PEAK STAGE				9.88	Jan	24	21.78	Jun	23 1972
INSTANTANEOUS LOW FLOW							1.2	Sep	4 1939
ANNUAL RUNOFF (CFSM)	1.30			1.03			1.67		
ANNUAL RUNOFF (INCHES)	17.60			13.98			22.68		
10 PERCENT EXCEEDS	2570			2150			2780		
50 PERCENT EXCEEDS	222			126			563		
90 PERCENT EXCEEDS	40			37			70		

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



1-YEAR HYDROGRAPH  
 OCTOBER 1, 1998 TO SEPTEMBER 30, 1999