

**WEST BRANCH SUSQUEHANNA RIVER BASIN**

**01543500 SINNEMAHONING CREEK AT SINNEMAHONING, PA  
(Pennsylvania Water-Quality Network Station)**

**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>.

**WATER-DISCHARGE RECORDS**

**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 National Geodetic Vertical Datum of 1929.

**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. 27	0330	8,580	7.19	May 13	2330	*16,800	*10.27

**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	84	198	2160	e600	3350	e720	2980	2610	922	303	283	27
2	72	187	1700	e560	3900	731	2390	3120	756	268	199	25
3	65	261	1320	e500	3230	1300	2040	3300	633	240	122	23
4	56	325	1070	601	2560	e1400	1660	2770	563	214	95	22
5	51	258	893	558	1920	e1300	1370	2260	685	192	82	22
6	48	230	768	518	1520	e1300	1240	1830	3000	167	74	23
7	44	210	682	531	1280	1260	1110	1550	5730	148	71	21
8	43	197	607	483	1130	1110	1030	1300	3540	137	53	18
9	43	185	595	e450	962	992	992	1570	2380	130	45	17
10	42	176	575	435	865	1010	1080	3320	1720	153	41	16
11	41	161	510	450	1860	881	956	2770	1290	156	38	15
12	41	145	463	434	1720	809	909	4120	1040	117	34	14
13	42	134	473	414	1660	774	967	14700	905	99	33	13
14	48	126	612	393	1400	744	1690	13900	1290	92	44	13
15	155	122	1100	383	1310	693	5330	9220	3400	87	36	18
16	228	119	1080	372	1210	735	4680	5810	3020	78	33	670
17	231	116	1480	357	1110	718	3380	4060	2250	69	46	260
18	232	107	6720	348	933	669	2540	4780	1700	63	53	123
19	161	102	5070	e320	804	726	2030	4900	1280	60	58	79
20	125	120	3420	e380	769	782	1750	3990	996	81	42	60
21	108	180	2430	e420	1010	1320	1490	3040	809	78	35	55
22	101	157	1820	e380	1050	1350	1290	2340	678	62	30	51
23	117	133	1470	e360	931	1340	1130	1860	688	66	61	43
24	828	122	1450	e420	877	1290	963	1530	546	218	110	39
25	750	628	1230	1460	862	1240	903	1300	492	145	124	35
26	455	1700	1030	1530	884	2160	882	1150	425	90	90	32
27	360	1010	929	1400	961	7450	755	974	392	82	61	79
28	319	867	865	1310	854	4980	1510	842	684	83	45	858
29	269	976	e760	1270	---	3890	3970	810	462	119	39	343
30	236	1360	e700	1790	---	3770	3290	1030	356	155	34	192
31	214	---	e620	2410	---	3370	---	1020	---	111	30	---
TOTAL	5609	10612	44602	21837	40922	50814	56307	107776	42632	4063	2141	3206
MEAN	180.9	353.7	1439	704.4	1462	1639	1877	3477	1421	131.1	69.06	106.9
MAX	828	1700	6720	2410	3900	7450	5330	14700	5730	303	283	858
MIN	41	102	463	320	769	669	755	810	356	60	30	13
CFSM	0.26	0.52	2.10	1.03	2.13	2.39	2.74	5.08	2.07	0.19	0.10	0.16
IN.	0.30	0.58	2.42	1.19	2.22	2.76	3.06	5.85	2.32	0.22	0.12	0.17

**STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1939 - 2002, BY WATER YEAR (WY)**

MEAN	461.6	953.3	1270	1239	1458	2429	2318	1602	845.5	413.7	295.8	313.2
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

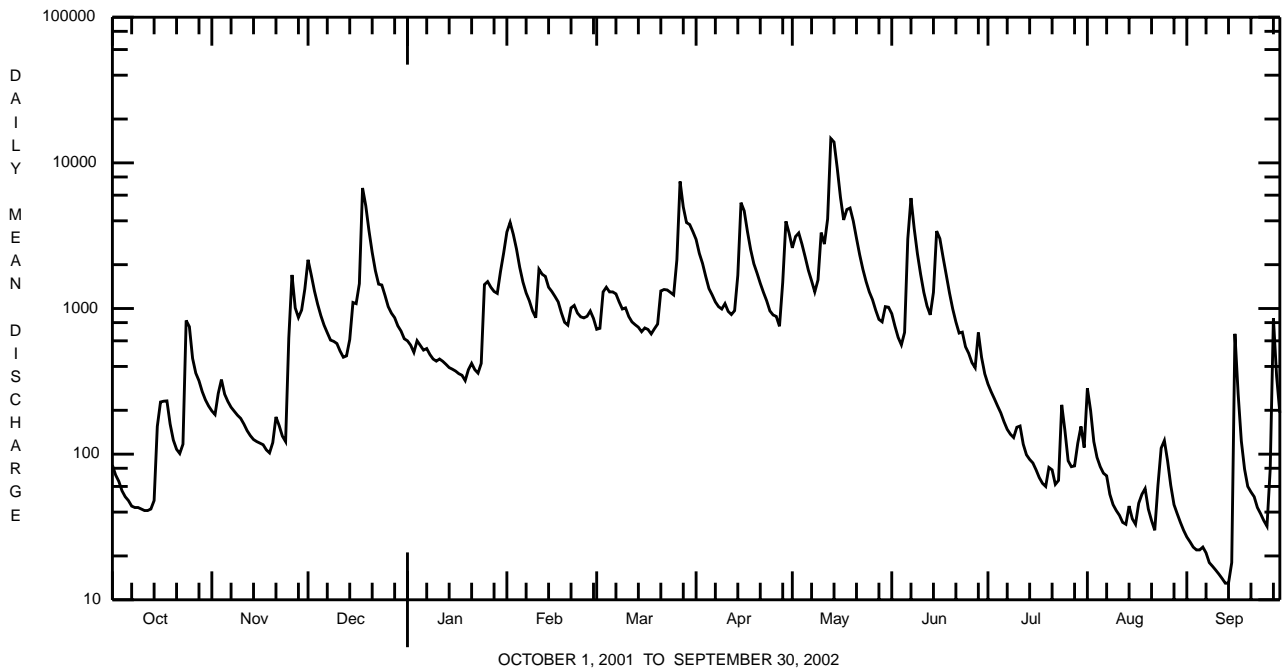
e Estimated.

WEST BRANCH SUSQUEHANNA RIVER BASIN

01543500 SINNEMAHONING CREEK AT SINNEMAHONING, PA--Continued

SUMMARY STATISTICS	FOR 2001 CALENDAR YEAR		FOR 2002 WATER YEAR		WATER YEARS 1939 - 2002	
ANNUAL TOTAL	272624		390521		1131	
ANNUAL MEAN	747		1070		1798	
HIGHEST ANNUAL MEAN					1951	
LOWEST ANNUAL MEAN					1999	
HIGHEST DAILY MEAN	6720	Dec 18	14700	May 13	44000	Jun 23 1972
LOWEST DAILY MEAN	31	Sep 13	13	Sep 13,14	1.4	Sep 3 1939
ANNUAL SEVEN-DAY MINIMUM	36	Aug 10	15	Sep 8	4.2	Aug 29 1939
MAXIMUM PEAK FLOW			16800	May 13	<sup>a</sup> 60800	Jun 23 1972
MAXIMUM PEAK STAGE			10.27	May 13	21.78	Jun 23 1972
INSTANTANEOUS LOW FLOW					1.2	Sep 4 1939
ANNUAL RUNOFF (CFSM)	1.09		1.56		1.65	
ANNUAL RUNOFF (INCHES)	14.81		21.21		22.43	
10 PERCENT EXCEEDS	1980		2770		2740	
50 PERCENT EXCEEDS	357		628		560	
90 PERCENT EXCEEDS	51		43		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.



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01543500 SINNEMAHONING CREEK AT SINNEMAHONING, PA--Continued  
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WATER-QUALITY RECORDS

PERIOD OF RECORD.--April 2002 to current year.

REMARKS.--Other data for the Water-Quality Network can be found on pages 306-334.

COOPERATION.--Samples were collected as part of the Pennsylvania Department of Environmental Protection Water-Quality Network (WQN) with cooperation from the Pennsylvania Department of Environmental Protection.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	Time	AGENCY ANA-LYZING SAMPLE (CODE NUMBER)	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SAM-PLING METHOD, CODES (82398)	OXYGEN, DIS-SOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	SPE-CIFIC CON-DUCT-ANCE (µS/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM TOTAL RECOV-ERABLE (MG/L AS CA) (00916)	MAGNE-SIUM, TOTAL RECOV-ERABLE (MG/L AS MG) (00927)	ANC WATER UNFLTRD FET LAB (MG/L AS CACO3) (00417)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)
APR 2002													
24...	1445	9813	941	30	12.2	7.1	77	11.1	28	7.0	2.5	7	22.2
JUN													
17...	1615	9813	2140	30	11.2	7.4	59	14.0	23	5.9	2.0	7	14.9
AUG													
14...	1030	9813	48	30	8.0	7.7	168	26.9	61	15.6	5.3	15	45.6

Date	RESIDUE AT 105 DEG. C, DIS-SOLVED (MG/L) (00515)	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (MG/L) (00530)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITRO-GEN, NITRATE TOTAL (MG/L AS N) (00620)	NITRO-GEN, NITRITE TOTAL (MG/L AS N) (00615)	NITRO-GEN, TOTAL (MG/L AS N) (00600)	PHOS-PHORUS ORTHO TOTAL (MG/L AS P) (70507)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)	COPPER, TOTAL RECOV-ERABLE (µG/L AS CU) (01042)	IRON, TOTAL RECOV-ERABLE (µG/L AS FE) (01045)	LEAD, TOTAL RECOV-ERABLE (µG/L AS PB) (01051)	MANGA-NESE, TOTAL RECOV-ERABLE (µG/L AS MN) (01055)
APR 2002													
17...	<2	62	<.02	.18	<.040	.22	<.01	.010	.9	<10	140	<1.0	93
JUN													
26...	66	6	<.02	.23	<.040	.27	.01	.010	1.3	<10	174	<1.0	58
AUG													
14...	118	<2	<.02	<.04	<.040	.13	.01	<.010	1.6	<10	23	<1.0	21

Date	NICKEL, TOTAL RECOV-ERABLE (µG/L AS NI) (01067)	ZINC, TOTAL RECOV-ERABLE (µG/L AS ZN) (01092)
APR 2002		
17...	<50	17
JUN		
26...	<50	<10
AUG		
14...	<50	<10