

WEST BRANCH SUSQUEHANNA RIVER BASIN

01543000 DRIFTWOOD BRANCH SINNEMAHONING CREEK AT STERLING RUN, PA
(Pennsylvania Water-Quality Network Station)

LOCATION.--Lat 41°24'48", long 78°11'50", Cameron County, Hydrologic Unit 02050202, on left bank at downstream side of highway bridge on SR 3002 at village of Sterling Run, and 300 ft upstream from Sterling Run.

DRAINAGE AREA.--272 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1913 to current year.

REVISED RECORDS.--WSP 1272: Drainage area. WSP 1502: 1933(M), 1934-38, 1939(M).

GAGE.--Water-stage recorder. Datum of gage is 894.84 ft above National Geodetic Vertical Datum of 1929. Oct. 1, 1913, to Sept. 30, 1931, nonrecording gage, Oct. 1, 1931, to Sept. 30, 1932, and Oct. 1, 1942, to Oct. 3, 1991, water-stage recorder at site 50 feet upstream on steel-truss bridge at same datum.

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.

PEAK DISCHARGES FOR CURRENT YEAR.--Peak discharges greater than a base discharge of 4,700 ft³/s and maximum (*):

Date	Time	Discharge ft ³ /s	Gage Height (ft)	Date	Time	Discharge ft ³ /s	Gage Height (ft)
May 13	2130	*8,640	*6.06	No other peak greater than 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	40	87	881	e200	1550	278	1210	1150	290	125	150	11
2	33	83	711	e210	1770	260	895	1400	239	112	70	9.9
3	29	132	550	e190	1390	e300	746	1450	210	106	48	9.8
4	25	120	435	e190	1020	e460	571	1190	189	96	38	9.7
5	22	108	349	e170	704	e500	457	911	211	85	29	9.6
6	20	100	290	e160	562	e500	415	683	1700	74	39	9.3
7	19	93	251	164	469	470	367	552	2400	67	27	8.6
8	19	87	218	151	393	402	356	436	1450	62	19	8.2
9	19	86	214	e140	323	352	371	594	884	58	16	7.8
10	18	80	200	135	297	388	450	1210	584	74	14	7.3
11	17	75	173	149	662	318	410	1110	408	60	13	6.7
12	17	69	158	135	627	299	410	2160	316	48	13	5.8
13	17	63	171	130	626	288	506	7250	261	41	15	5.7
14	22	59	225	e130	e510	277	966	6340	649	38	14	5.6
15	103	58	442	124	495	257	2470	3750	1890	34	11	17
16	84	57	450	122	456	278	2030	2230	1620	30	13	193
17	114	54	732	119	401	246	1390	1540	1130	26	17	73
18	94	50	2740	e110	321	251	969	1890	776	23	26	37
19	71	48	2030	e75	274	283	737	2000	532	23	16	24
20	62	66	1360	e100	265	356	622	1600	376	33	13	19
21	54	74	932	e110	392	578	505	1150	292	29	12	20
22	53	63	669	e120	369	624	423	823	244	21	10	17
23	60	57	551	e120	336	607	359	619	285	26	77	15
24	295	53	539	e160	329	557	305	488	217	103	54	13
25	217	341	434	697	328	514	299	392	191	48	47	12
26	154	586	348	684	352	1030	275	383	159	33	30	11
27	137	390	e320	605	372	2870	234	309	174	32	19	86
28	128	318	296	550	322	1920	899	265	305	55	15	329
29	111	381	e250	538	---	1490	2130	259	177	73	13	112
30	103	594	228	788	---	1580	1620	360	146	58	13	72
31	93	---	e190	1030	---	1460	---	333	---	40	11	---
TOTAL	2250	4432	17337	8306	15915	19993	23397	44827	18305	1733	902	1165.0
MEAN	72.58	147.7	559.3	267.9	568.4	644.9	779.9	1446	610.2	55.90	29.10	38.83
MAX	295	594	2740	1030	1770	2870	2470	7250	2400	125	150	329
MIN	17	48	158	75	265	246	234	259	146	21	10	5.6
CFSM	0.27	0.54	2.06	0.99	2.09	2.37	2.87	5.32	2.24	0.21	0.11	0.14
IN.	0.31	0.61	2.37	1.14	2.18	2.73	3.20	6.13	2.50	0.24	0.12	0.16

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1914 - 2002, BY WATER YEAR (WY)

MEAN	187.7	400.1	489.4	506.8	549.6	984.1	910.9	632.5	329.0	163.0	116.0	122.9
MAX	838	1918	1394	2027	2047	3366	2310	1758	1783	1308	1294	743
(WY)	1918	1951	1928	1937	1918	1936	1940	1953	1972	1942	1994	1987
MIN	10.0	21.2	24.5	33.2	76.0	250	199	104	38.8	16.9	9.20	5.16
(WY)	1965	1965	1961	1961	1963	1981	1946	1941	1991	1966	1957	1964

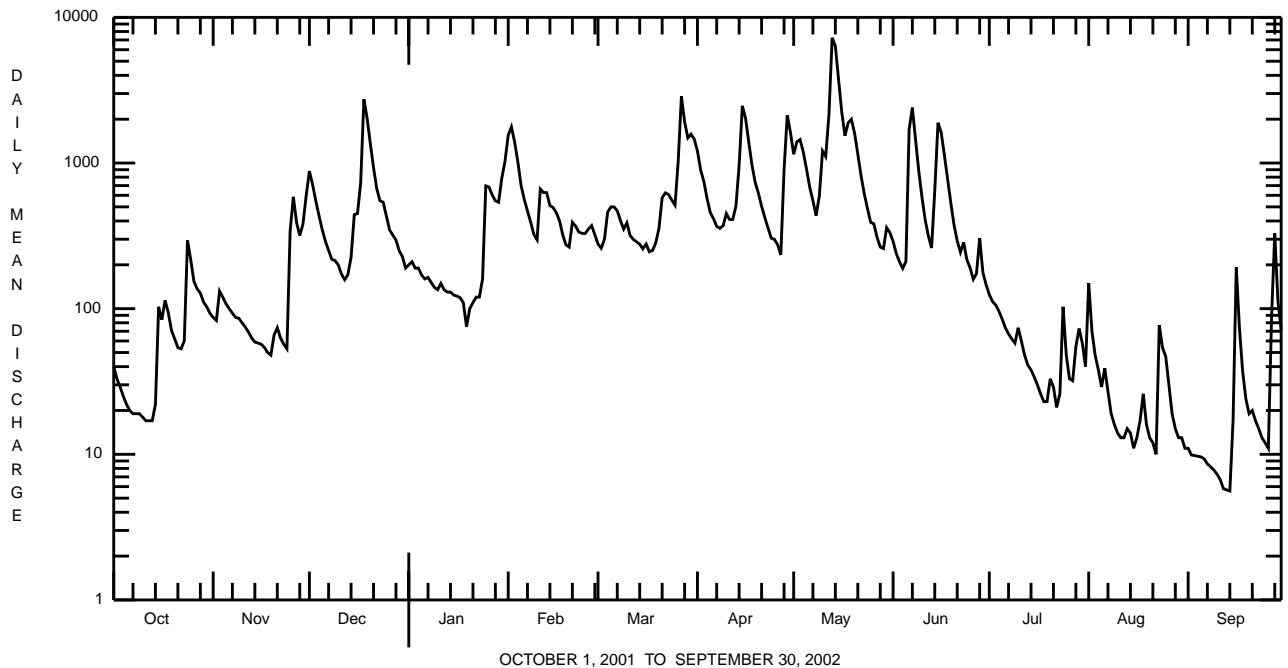
e Estimated.

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SUMMARY STATISTICS	FOR 2001 CALENDAR YEAR		FOR 2002 WATER YEAR		WATER YEARS 1914 - 2002	
ANNUAL TOTAL	103811.6		158562.0			
ANNUAL MEAN	284		434		449	
HIGHEST ANNUAL MEAN					735	1994
LOWEST ANNUAL MEAN					235	1934
HIGHEST DAILY MEAN	3050	Mar 22	7250	May 13	18600	Jun 23 1972
LOWEST DAILY MEAN	9.7	Aug 15	5.6	Sep 14	0.40	Sep 13 1930
ANNUAL SEVEN-DAY MINIMUM	11	Aug 10	6.7	Sep 8	0.87	Aug 28 1939
MAXIMUM PEAK FLOW			8640	May 13	a 47800	Jul 18 1942
MAXIMUM PEAK STAGE			6.06	May 13	b 14.70	Jul 18 1942
INSTANTANEOUS LOW FLOW					0.40	Sep 12 1930 ^c
ANNUAL RUNOFF (CFSM)	1.05		1.60		1.65	
ANNUAL RUNOFF (INCHES)	14.20		21.69		22.41	
10 PERCENT EXCEEDS	751		1150		1070	
50 PERCENT EXCEEDS	120		217		204	
90 PERCENT EXCEEDS	20		17		26	

- a** From rating curve extended above 11,000 ft³/s on basis of slope-area measurement of peak flow.
- b** From floodmarks.
- c** Also Sept. 13, 14, 1930.



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01543000 DRIFTWOOD BRANCH SINNEMAHONING CREEK AT STERLING RUN, 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 AS CACO3 (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	CALCIUM TOTAL RECOV-ERABLE (MG/L AS CA) (00916)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	MAGNE-SIUM, TOTAL RECOV-ERABLE (MG/L AS MG) (00927)
APR 2002 30...	1200	9813	1590	30	12.0	7.4	50	7.5	17	4.50	4.6	1.38	1.4
JUN 19...	1045	9813	546	30	11.2	7.6	50	13.4	21	5.90	5.8	1.72	1.7
AUG 27...	1600	9813	18	30	10.2	9.2	114	25.7	37	9.88	10.5	2.34	2.5

Date	ACIDITY TOTAL HEATED (MG/L AS CAC03) (70508)	ANC WATER UNFLTRD FET LAB (MG/L AS CAC03) (00417)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	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-ORPHO TOTAL (MG/L AS P) (70507)	PHOS-ORPHO TOTAL (MG/L AS P) (00665)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L AS CU) (00310)	COPPER, DIS-SOLVED (µG/L AS CU) (01040)
APR 2002 30...	.0	8	9.9	34	<2	<.020	.32	<.040	.49	.01	.016	.7	<4
JUN 19...	4.2	11	9.8	6	10	<.020	.25	<.040	.36	.01	.018	1.0	<4
AUG 27...	.0	22	12.4	96	<2	.080	.05	<.040	.27	.01	.014	1.1	<4

Date	COPPER, TOTAL RECOV-ERABLE (µG/L AS CU) (01042)	IRON, DIS-SOLVED (µG/L AS FE) (01046)	IRON, TOTAL RECOV-ERABLE (µG/L AS FE) (01045)	LEAD, DIS-SOLVED (µG/L AS PB) (01049)	LEAD, TOTAL RECOV-ERABLE (µG/L AS PB) (01051)	MANGA-NESE, DIS-SOLVED (µG/L AS MN) (01056)	MANGA-NESE, TOTAL RECOV-ERABLE (µG/L AS MN) (01055)	NICKEL, DIS-SOLVED (µG/L AS NI) (01065)	NICKEL, TOTAL RECOV-ERABLE (µG/L AS NI) (01067)	ZINC, DIS-SOLVED (µG/L AS ZN) (01090)	ZINC, TOTAL RECOV-ERABLE (µG/L AS ZN) (01092)
APR 2002 30...	<4	<20	180	<1.0	<1.0	7.2	20	<4.0	<4.0	<5.0	<5.0
JUN 19...	<4	20	270	<1.0	<1.0	10	20	<4.0	<4.0	<5.0	<5.0
AUG 27...	<4	40	140	<1.0	<1.0	10	20	<4.0	<4.0	9.7	<5.0