

## WEST BRANCH SUSQUEHANNA RIVER BASIN

01544000 FIRST FORK SINNEMAHONING CREEK NEAR SINNEMAHONING, PA  
(Pennsylvania Water-Quality Network Station)

**LOCATION.**--Lat 41°24'06", long 78°01'28", Cameron County, Hydrologic Unit 02050202, on right bank on Township Route 357, 350 ft downstream from Woodrock Run, 1,500 ft upstream from Roaring Run, 0.8 mi downstream from George B. Stevenson Dam (First Fork Sinnemahoning Creek Reservoir), and 7.5 mi northeast of Sinnemahoning.

**DRAINAGE AREA.**--245 mi<sup>2</sup>.

## WATER-DISCHARGE RECORDS

**PERIOD OF RECORD.**--October 1953 to current year.

**GAGE.**--Water-stage recorder. Datum of gage is 878.71 ft above National Geodetic Vertical Datum of 1929. Prior to Apr. 1, 1954, nonrecording gage at same site and datum.

**REMARKS.**--No estimated daily discharges. Records good. Flow regulated since Jan. 31, 1956 by George B. Stevenson Dam (station 01543900). Several measurements of water temperature were made during the year. Satellite telemetry at station.

**EXTREMES OUTSIDE PERIOD OF RECORD.**--Maximum discharge known, 80,000 ft<sup>3</sup>/s, July 18, 1942, by slope-area measurement.

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	80	113	1780	172	1180	282	1030	1250	239	78	50	21
2	59	109	1350	161	1570	255	890	1180	235	87	25	23
3	53	109	712	161	1490	391	620	1170	213	95	24	11
4	53	140	758	161	1070	501	607	1100	187	93	24	10
5	53	135	640	177	749	564	938	835	187	89	24	10
6	44	110	374	165	550	580	985	728	909	65	23	10
7	30	90	392	154	480	495	608	614	1920	42	22	9.9
8	22	86	303	154	425	457	383	490	1390	41	21	9.8
9	22	90	232	137	353	406	345	483	1010	41	24	9.8
10	23	96	269	129	285	322	334	822	670	40	25	9.8
11	23	96	240	133	499	360	422	1000	505	57	25	9.8
12	26	81	192	133	732	313	384	1210	356	85	24	9.8
13	28	67	183	133	774	285	417	1170	372	59	24	9.8
14	30	67	230	129	647	285	543	1190	341	48	24	9.8
15	77	67	454	123	534	266	1230	4470	1050	34	24	11
16	122	67	565	111	501	258	1660	4520	1700	30	23	11
17	76	67	781	101	472	258	1300	4250	1400	29	21	10
18	85	60	1700	101	358	239	901	3450	961	28	22	11
19	102	52	2070	90	299	231	767	1780	794	28	23	11
20	113	53	1500	72	300	271	675	1640	516	28	23	22
21	117	53	988	95	335	401	509	1130	423	28	22	28
22	97	53	720	128	343	497	446	926	367	28	22	26
23	87	53	557	140	311	524	403	715	253	27	22	18
24	128	53	502	127	313	546	325	591	252	25	23	13
25	393	242	464	433	311	468	323	481	228	25	23	13
26	183	1040	360	594	309	547	319	436	184	25	21	13
27	217	803	285	630	353	2100	243	386	154	25	21	29
28	201	751	324	575	358	1310	476	310	169	25	21	254
29	161	414	288	522	---	424	1800	285	178	79	21	134
30	151	630	208	608	---	1380	1790	316	111	133	21	32
31	133	---	191	964	---	1120	---	302	---	106	21	---
TOTAL	2989	5847	19612	7513	15901	16336	21673	39230	17274	1623	733	799.5
MEAN	96.42	194.9	632.6	242.4	567.9	527.0	722.4	1265	575.8	52.35	23.65	26.65
MAX	393	1040	2070	964	1570	2100	1800	4520	1920	133	50	254
MIN	22	52	183	72	285	231	243	285	111	25	21	9.8

WEST BRANCH SUSQUEHANNA RIVER BASIN

01544000 FIRST FORK SINNEMAHONING CREEK NEAR SINNEMAHONING, PA--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1956 - 2002, BY WATER YEAR (WY) (SINCE REGULATION)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	209.1	385.7	467.3	375.7	471.8	798.0	881.6	518.3	276.4	157.4	115.2	131.4
MAX	1033	1162	1051	1131	1452	1820	2300	1265	1334	808	977	837
(WY)	1991	1986	1991	1996	1981	1964	1993	2002	1989	1992	1994	1975
MIN	9.76	17.6	21.3	16.6	77.9	171	320	103	39.5	14.5	14.2	5.31
(WY)	1964	1965	1961	1961	1963	1960	1976	1985	1999	1966	1962	1964

SUMMARY STATISTICS	FOR 2001 CALENDAR YEAR	FOR 2002 WATER YEAR	WATER YEARS 1956 - 2002
ANNUAL TOTAL	100367	149530.5	
ANNUAL MEAN	275	410	398
HIGHEST ANNUAL MEAN			640 1994
LOWEST ANNUAL MEAN			236 1999
HIGHEST DAILY MEAN	2250	Apr 10	4520 May 16 7360 Mar 10 1956
LOWEST DAILY MEAN	13	Jul 25 <sup>a</sup>	9.8 Sep 8-14 0.10 Aug 8 1975
ANNUAL SEVEN-DAY MINIMUM	13	Aug 10	9.8 Sep 8 3.6 Oct 23 1963
MAXIMUM PEAK FLOW			4620 May 15 10200 Mar 1 1956
MAXIMUM PEAK STAGE			3.85 May 15 6.60 Mar 1 1956
10 PERCENT EXCEEDS	726		1060 957
50 PERCENT EXCEEDS	121		230 192
90 PERCENT EXCEEDS	23		22 27

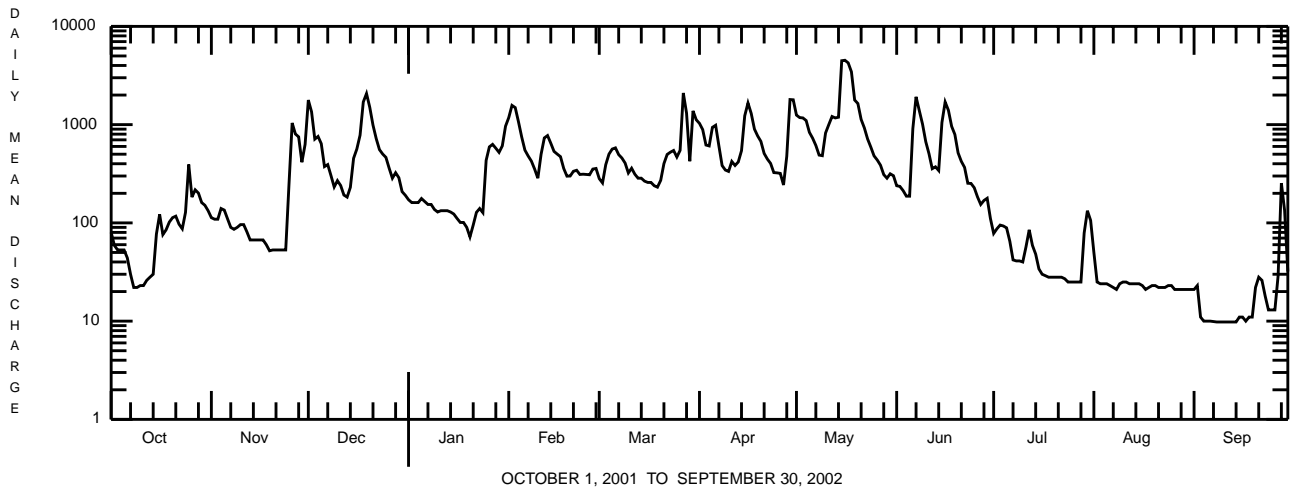
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1954 - 1955, BY WATER YEAR (WY) (PRIOR TO REGULATION)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	55.2	101	374	394	467	1277	699	391	177	30.6	44.6	20.4
MAX	96.7	132	509	503	631	1672	936	626	260	38.9	74.4	23.4
(WY)	1955	1955	1955	1955	1954	1955	1954	1954	1954	1954	1955	1955
MIN	13.7	70.0	239	285	304	883	462	156	93.4	22.3	14.9	17.4
(WY)	1954	1954	1954	1954	1955	1954	1955	1955	1955	1955	1954	1954

SUMMARY STATISTICS WATER YEARS 1954 - 1955

ANNUAL MEAN	336	
HIGHEST ANNUAL MEAN	339	1955
LOWEST ANNUAL MEAN	332	1954
HIGHEST DAILY MEAN	5020	Mar 2 1954
LOWEST DAILY MEAN	5.6	Sep 22 1955
ANNUAL SEVEN-DAY MINIMUM	8.3	Sep 6 1954
MAXIMUM PEAK FLOW	7000	Mar 1 1954
MAXIMUM PEAK STAGE	5.64	Mar 1 1954
ANNUAL RUNOFF (CFSM)	1.37	
ANNUAL RUNOFF (INCHES)	18.63	
10 PERCENT EXCEEDS	980	
50 PERCENT EXCEEDS	103	
90 PERCENT EXCEEDS	14	

<sup>a</sup> Also Aug. 11-16, 22-25.



OCTOBER 1, 2001 TO SEPTEMBER 30, 2002

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01544000 FIRST FORK SINNEMAHONING CREEK NEAR SINNEMAHONING, PA--Continued  
(Pennsylvania Water-Quality Network Station)

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 AS CA (00915)	CALCIUM TOTAL RECOV-ERABLE AS CA (00916)	MAGNE-SIUM, DIS-SOLVED AS MG (00925)	MAGNE-SIUM, TOTAL RECOV-ERABLE AS MG (00927)	
APR 2002	29...	0900	9813	1700	30	11.3	7.1	55	11.0	20	5.44	5.4	1.53	1.5
JUN	17...	1400	9813	1230	30	11.5	6.8	47	12.6	18	4.87	4.9	1.42	1.4
AUG	13...	1015	9813	24	30	7.9	7.4	77	23.9	26	7.10	7.0	2.07	2.0

Date	ACIDITY TOTAL HEATED (MG/L AS CACO3) (70508)	ANC WATER UNFLTRD FET LAB (MG/L AS CACO3) (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-PHORUS ORTHO TOTAL (MG/L AS P) (70507)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L) (00310)	COPPER, DIS-SOLVED (µG/L AS CU) (01040)	
APR 2002	29...	.0	12	8.3	68	<2	<.020	.34	<.040	.58	.04	.037	1.6	<4
JUN	17...	.0	10	8.7	62	<2	<.020	.35	<.040	.39	.02	.013	.8	<4
AUG	13...	.0	22	7.1	36	28	.200	.08	<.040	.44	.02	.037	1.8	<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	29...	<4	60	450	<1.0	<1.0	30	50	<4.0	<4.0	<5.0	<5.0
JUN	17...	<4	30	140	<1.0	<1.0	20	20	<4.0	<4.0	<5.0	<5.0
AUG	13...	<4	120	480	<1.0	<1.0	40	100	<4.0	<4.0	<5.0	<5.0