

WEST BRANCH SUSQUEHANNA RIVER BASIN

01552500 MUNCY CREEK NEAR SONESTOWN, PA
(Pennsylvania Water-Quality Network Station)

LOCATION.--Lat 41°21'25", long 76°32'06", Sullivan County, Hydrologic Unit 02050206, on right bank 150 ft downstream from Slip Run, 185 ft downstream from bridge on SR 2002, and 1.2 mi east of Sonestown.

DRAINAGE AREA.--23.8 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1940 to current year.

REVISED RECORDS.--WSP 1502: 1941-42; WDR PA-00-2: 1942, 1946, 1951-52, 1959, 1964, 1972, 1975, 1977-79, 1984, 1986, 1988, 1991, 1993-94, 1996-97(P).

GAGE.--Water-stage recorder. Datum of gage is 1,025.01 ft above National Geodetic Vertical Datum of 1929. Prior to Mar. 31, 1941, nonrecording gage at same site and datum.

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

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood in March 1936 reached a stage of about 9.3 ft, discharge not determined.

PEAK DISCHARGES FOR CURRENT YEAR.--Peak discharges greater than a base discharge of 1,100 ft³/s and maximum (*):

Date	Time	Discharge ft ³ /s	Gage Height (ft)	Date	Time	Discharge ft ³ /s	Gage Height (ft)
May 13	1430	*1,650	*5.57	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	19	13	112	e20	123	e25	76	57	23	12	4.3	2.7
2	17	13	81	e19	101	e25	62	95	19	11	4.1	5.6
3	15	13	65	e18	78	91	55	74	17	11	4.9	2.9
4	13	13	54	e17	66	56	45	63	16	11	3.7	2.3
5	11	12	46	e16	e52	e50	40	55	37	11	4.0	2.0
6	12	11	41	e18	44	e46	36	47	179	8.5	6.1	1.9
7	11	11	37	e18	38	40	33	43	150	8.0	3.8	1.8
8	9.6	11	34	e16	35	37	31	38	82	7.1	3.3	1.7
9	9.1	10	41	e17	31	36	32	56	59	6.9	2.9	1.6
10	9.1	9.8	36	19	53	93	39	45	44	8.0	2.7	1.5
11	8.6	9.6	33	19	150	55	30	37	36	6.4	2.6	1.5
12	8.6	9.1	32	18	81	50	28	86	39	5.8	2.4	1.5
13	8.4	8.8	45	17	67	46	30	662	41	5.7	2.4	1.4
14	8.3	8.6	51	16	e58	42	52	497	67	5.3	2.2	1.4
15	22	8.6	56	15	49	38	133	202	180	5.0	2.1	6.2
16	15	8.6	47	15	43	89	84	126	175	4.5	2.0	7.0
17	27	8.4	57	14	39	64	69	98	112	4.3	2.0	3.3
18	17	7.9	121	14	33	60	58	209	80	4.1	2.3	2.4
19	16	7.7	89	e22	e31	57	51	135	66	37	2.2	2.2
20	14	9.0	75	e17	29	72	46	106	51	24	2.2	2.2
21	13	8.4	62	15	35	92	41	86	40	9.0	2.1	3.2
22	13	7.8	51	13	30	83	39	69	33	6.7	2.0	57
23	14	7.5	45	14	27	68	37	57	29	14	2.7	141
24	29	7.7	50	23	24	62	32	48	25	15	4.4	24
25	22	131	40	31	23	59	32	40	22	8.3	5.1	13
26	19	121	35	25	25	225	31	35	20	7.0	2.9	10
27	18	75	e34	26	32	282	28	31	19	6.7	2.3	107
28	16	56	e30	32	e26	157	71	28	18	7.8	2.0	108
29	16	57	e28	47	---	118	76	26	15	7.7	2.0	48
30	15	88	e24	97	---	101	63	24	13	6.0	2.2	32
31	14	---	e22	96	---	82	---	26	---	5.1	2.1	---
TOTAL	459.7	762.5	1574	764	1423	2401	1480	3201	1707	289.9	92.0	596.3
MEAN	14.83	25.42	50.77	24.65	50.82	77.45	49.33	103.3	56.90	9.352	2.968	19.88
MAX	29	131	121	97	150	282	133	662	180	37	6.1	141
MIN	8.3	7.5	22	13	23	25	28	24	13	4.1	2.0	1.4
CFSM	0.62	1.07	2.13	1.04	2.14	3.25	2.07	4.34	2.39	0.39	0.12	0.84
IN.	0.72	1.19	2.46	1.19	2.22	3.75	2.31	5.00	2.67	0.45	0.14	0.93

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1941 - 2002, BY WATER YEAR (WY)

MEAN	31.98	55.99	61.24	50.80	54.00	85.20	88.15	60.02	30.83	18.10	16.71	21.79
MAX	127	140	161	167	236	168	220	156	240	93.0	95.3	167
(WY)	1977	1973	1974	1976	1981	1964	1993	1946	1972	1972	1994	1975
MIN	1.44	2.62	8.57	6.60	7.70	25.4	20.9	11.9	4.93	2.21	1.60	0.73
(WY)	1965	1965	1999	1981	1987	1981	1946	1941	1991	1999	1957	1964

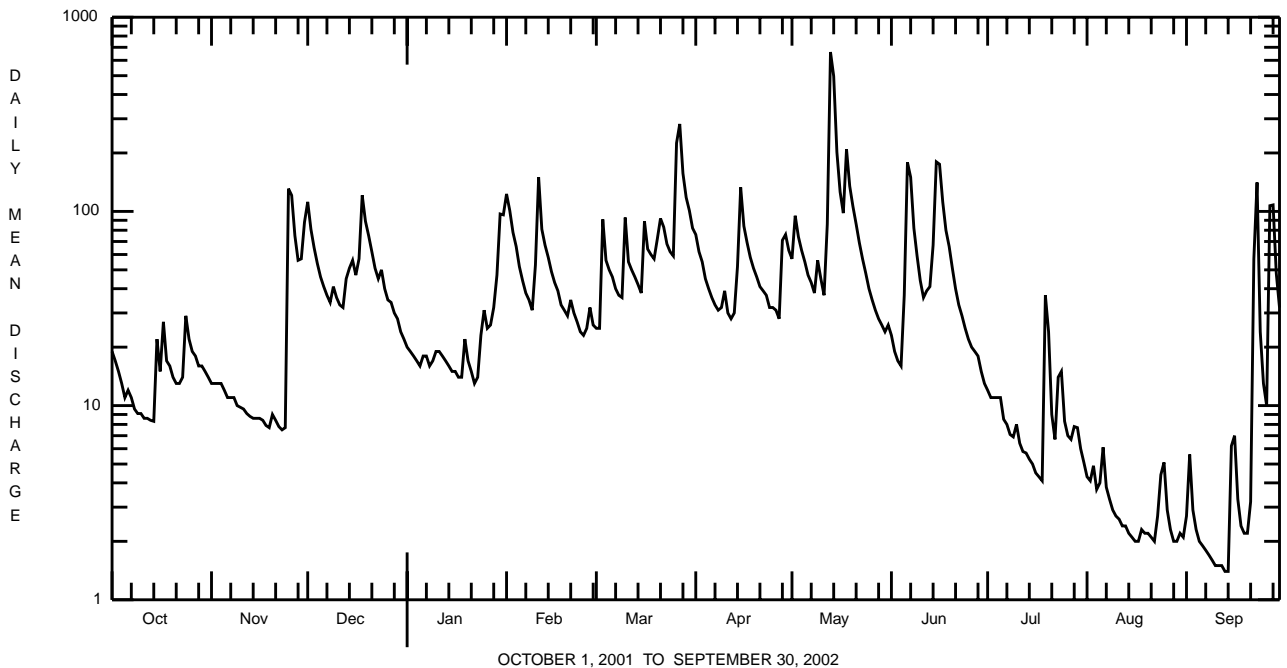
e Estimated.

WEST BRANCH SUSQUEHANNA RIVER BASIN

01552500 MUNCY CREEK NEAR SONESTOWN, PA--Continued

SUMMARY STATISTICS	FOR 2001 CALENDAR YEAR		FOR 2002 WATER YEAR		WATER YEARS 1941 - 2002	
ANNUAL TOTAL	11672.0		14750.4			
ANNUAL MEAN	32.0		40.4		47.8	
HIGHEST ANNUAL MEAN					77.3	
LOWEST ANNUAL MEAN					22.1	
HIGHEST DAILY MEAN	247	Sep 25	662	May 13	3910	Jun 22 1972
LOWEST DAILY MEAN	2.0	Aug 15	1.4	Sep 13,14	0.20	Sep 11 1964
ANNUAL SEVEN-DAY MINIMUM	2.7	Aug 9	1.5	Sep 8	0.31	Sep 8 1964
MAXIMUM PEAK FLOW			a1650	May 13	a4630	Jun 22 1972
MAXIMUM PEAK STAGE			5.57	May 13	8.94	Jun 22 1972
INSTANTANEOUS LOW FLOW					0.10	Sep 11 1964
ANNUAL RUNOFF (CFSM)	1.34		1.70		2.01	
ANNUAL RUNOFF (INCHES)	18.24		23.06		27.31	
10 PERCENT EXCEEDS	76		89		101	
50 PERCENT EXCEEDS	18		26		25	
90 PERCENT EXCEEDS	4.3		2.9		4.3	

a From rating curve extended above 900 ft³/s.



WEST BRANCH SUSQUEHANNA RIVER BASIN

01552500 MUNCY CREEK NEAR SONESTOWN, 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 CAC03 (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													
08...	0930	9813	31	30	12.8	8.0	51	3.9	19	6.48	6.2	.88	.8
MAY													
06...	0800	9813	48	30	12.1	7.4	56	8.0	21	6.73	7.0	.92	1.0
JUN													
04...	1045	9813	16	30	11.5	7.6	63	13.1	25	8.21	8.3	1.06	1.1
JUL													
10...	0815	9813	8.5	30	8.9	7.3	76	18.0	29	9.37	9.6	1.12	1.2
AUG													
08...	1015	9813	3.3	30	9.9	7.8	73	16.7	33	--	11.0	--	1.3
SEP													
10...	0800	9813	1.6	30	9.7	7.9	101	15.8	39	13.0	13.3	1.42	1.5

Date	ACIDITY TOTAL HEATED (MG/L AS CAC03) (70508)	ANC WATER UNFLTRD FET LAB AS CAC03 (00417)	CHLO-RIDE, DIS-SOLVED AS CL (00940)	FLUO-RIDE, TOTAL AS F (00951)	SULFATE DIS-SOLVED AS SO4 (00945)	RESIDUE AT 105 DEG. C, DIS-SOLVED (MG/L) (00515)	RESIDUE 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 AS N (00600)	PHOS-PHORUS ORTHO TOTAL AS P (70507)	PHOS-PHORUS TOTAL AS P (00665)
APR 2002													
08...	.0	10	3.4	<.2	8.1	26	10	<.020	.34	<.040	.43	.01	<.010
MAY													
06...	.0	12	3.1	<.2	8.2	10	<2	<.020	.24	<.040	.29	<.01	<.010
JUN													
04...	.0	17	3.1	<.2	7.7	86	2	<.020	.13	<.040	.18	<.01	<.010
JUL													
10...	.0	22	3.3	<.2	7.0	106	8	<.020	.34	<.040	.39	<.01	<.010
AUG													
08...	--	28	4.4	<.2	7.0	54	4	<.020	.20	<.040	.26	<.01	<.010
SEP													
10...	.0	32	5.2	<.2	7.2	34	<2	.130	.23	<.040	.25	.02	.012

WEST BRANCH SUSQUEHANNA RIVER BASIN

01552500 MUNCY CREEK NEAR SONESTOWN, PA--Continued

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

Date	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L) (00310)	FECAL COLI- FORM, MFC MF, WATER (COL/ 100 ML) (31616)	COPPER, DIS- SOLVED (µG/L AS CU) (01040)	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)
APR 2002 08...	1.8	40	<4	<4	<20	<20	<1.0	<1.0	<2.0	<2	<4.0	<4.0	<5.0
MAY 06...	1.0	20	<4	<4	<20	80	<1.0	<1.0	<2.0	<2	<4.0	<4.0	<5.0
JUN 04...	1.0	<20	<4	<4	<20	<20	<1.0	<1.0	<2.0	<2	<4.0	<4.0	<5.0
JUL 10...	1.0	80	<4	<4	<20	<20	<1.0	<1.0	2.1	3.1	<4.0	<4.0	<5.0
AUG 08...	1.3	20	<4	<4	<20	<20	<1.0	<1.0	3.7	4.2	<4.0	<4.0	<5.0
SEP 10...	1.0	20	<4	<4	<20	<20	<1.0	<1.0	3.4	3.9	<4.0	<4.0	<5.0

Date	ZINC, TOTAL RECOV- ERABLE (µG/L AS ZN) (01092)	PHENOLS TOTAL (µG/L) (32730)
APR 2002 08...	<5.0	<5
MAY 06...	<5.0	<5
JUN 04...	<5.0	<5
JUL 10...	<5.0	<5
AUG 08...	<5.0	<5
SEP 10...	<5.0	<5