

WEST BRANCH SUSQUEHANNA RIVER BASIN

01552500 MUNCY CREEK NEAR SONESTOWN, PA

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.

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 sea level. 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)
Dec. 17	0445	Ice jam	*5.02	Sept. 24	2330	*1,250	4.90

**DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES**

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9.0	16	41	e30	27	e34	114	28	8.5	21	4.1	18
2	8.6	16	37	e28	24	33	94	26	22	20	3.4	6.8
3	8.1	15	e36	e26	e25	30	81	25	26	15	3.1	4.8
4	7.7	14	e34	e26	e25	29	80	22	19	14	5.7	5.3
5	11	14	32	e28	22	34	86	21	15	13	4.5	7.2
6	25	13	e31	e28	22	32	121	20	13	12	3.2	4.5
7	16	12	e28	e24	21	27	160	18	11	9.9	2.9	3.7
8	13	12	24	e22	20	25	171	17	10	10	2.6	3.2
9	12	12	e23	e21	26	25	178	17	9.4	9.5	2.3	3.1
10	12	58	e21	e21	98	e25	179	15	8.5	8.7	2.8	3.5
11	11	95	21	20	73	e24	125	14	8.3	21	3.8	4.2
12	10	63	26	19	e60	e24	103	16	9.3	12	2.9	3.1
13	9.8	53	e27	18	55	66	88	16	13	9.0	2.9	3.1
14	9.5	48	28	17	59	61	75	13	8.1	8.0	2.4	11
15	9.1	42	20	16	94	53	66	12	7.1	7.4	2.0	6.2
16	9.1	37	46	16	74	53	79	11	8.1	7.2	2.3	4.3
17	11	35	e700	16	68	78	72	10	19	7.5	15	3.5
18	86	31	226	15	e62	84	67	11	8.8	8.7	5.6	3.0
19	58	29	133	15	e56	73	60	10	6.9	6.8	4.7	2.8
20	44	27	98	e14	51	72	55	9.5	6.3	6.3	16	6.3
21	37	25	96	e14	49	99	57	9.1	6.4	5.3	6.2	9.8
22	32	23	e68	e15	e48	123	61	13	76	4.9	4.4	5.3
23	28	e23	e54	19	e48	106	53	13	232	4.3	4.1	4.2
24	25	e22	e46	21	48	96	50	9.6	113	4.3	4.7	72
25	24	e20	e44	17	42	81	45	8.4	67	4.0	3.6	247
26	22	70	e42	19	44	69	42	8.6	45	5.8	3.0	77
27	21	69	e40	17	e36	e60	38	14	33	5.5	3.0	46
28	20	58	e38	15	e34	55	35	22	26	4.3	6.6	36
29	19	52	e36	e15	---	49	32	13	21	3.8	9.4	31
30	18	48	e34	25	---	237	30	11	18	3.8	4.8	24
31	17	---	e32	45	---	147	---	9.1	---	4.0	5.9	---
TOTAL	642.9	1052	2162	642	1311	2004	2497	462.3	874.7	277.0	147.9	659.9
MEAN	20.7	35.1	69.7	20.7	46.8	64.6	83.2	14.9	29.2	8.94	4.77	22.0
MAX	86	95	700	45	98	237	179	28	232	21	16	247
MIN	7.7	12	20	14	20	24	30	8.4	6.3	3.8	2.0	2.8
CFSM	.87	1.47	2.93	.87	1.97	2.72	3.50	.63	1.23	.38	.20	.92
IN.	1.00	1.64	3.38	1.00	2.05	3.13	3.90	.72	1.37	.43	.23	1.03

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1941 - 2001, BY WATER YEAR (WY)

MEAN	32.3	56.5	61.4	51.2	54.1	85.3	88.8	59.3	30.4	18.2	16.9	21.8
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	.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 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1941 - 2001	
ANNUAL TOTAL	17653.2		12732.7			
ANNUAL MEAN	48.2		34.9		48.0	
HIGHEST ANNUAL MEAN					77.3 1978	
LOWEST ANNUAL MEAN					22.1 1965	
HIGHEST DAILY MEAN	e700	Dec 17	e700	Dec 17 ^b	3910	Jun 22 1972
LOWEST DAILY MEAN	5.4	Sep 11	2.0	Aug 15	.20	Sep 11 1964
ANNUAL SEVEN-DAY MINIMUM	6.6	Sep 5	2.7	Aug 9	.31	Sep 8 1964
MAXIMUM PEAK FLOW			a1250	Sep 24	a4630	Jun 22 1972
MAXIMUM PEAK STAGE			5.02	Dec 17 ^b	8.94	Jun 22 1972
INSTANTANEOUS LOW FLOW					.10	Sep 11 1964
ANNUAL RUNOFF (CFSM)	2.03		1.47		2.02	
ANNUAL RUNOFF (INCHES)	27.59		19.90		27.38	
10 PERCENT EXCEEDS	109		76		102	
50 PERCENT EXCEEDS	31		21		25	
90 PERCENT EXCEEDS	10		4.3		4.3	

a From rating curve extended above 900 ft³/s.
 b Ice jam.
 e Estimated.

