

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.

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)
Aug. 1	1845	*1,050	*4.61	(No peaks above base discharge.)			

REVISIONS.--The peak discharges greater than the base discharge of 1,100 ft³/s have been revised, as shown in the following table. They supersede figures published in WPS 1302, WSP 1722, and the reports for water years 1964, 1972, 1975, 1977-79, 1984, 1986, 1988, 1991, 1993, 1994, 1996, and 1997.

Water Year	Date	Discharge ft ³ /s	Gage Height (ft)	Water Year	Date	Discharge ft ³ /s	Gage Height (ft)
1942	Dec. 24, 1941	3,040	7.35	1979	Mar. 6, 1979	1,970	6.02
	May 22, 1942	1,470	5.28	1984	Dec. 13, 1983	1,860	5.87
1946	May 27, 1946	2,110	6.22		Feb. 14, 1984	2,120	6.23
1951	Nov. 25, 1950	3,070	7.38	1986	Mar. 15, 1986	2,160	6.28
	Dec. 4, 1950	2,160	6.29		June 12, 1986	1,710	5.65
1952	Mar. 11, 1952	4,260	8.61	1988	Aug. 29, 1988	2,280	6.44
1959	Jan. 22, 1959	2,180	6.32	1991	Dec. 4, 1990	1,700	5.63
1964	Mar. 10, 1964	2,840	7.12	1993	Apr. 1, 1993	1,800	5.79
1972	June 22, 1972	4,630	8.94	1994	Nov. 28, 1993	2,370	6.56
1975	Sep. 26, 1975	3,750	8.12		Sep. 26, 1994	2,290	6.45
1977	Oct. 9, 1976	3,020	7.33	1996	Jan. 19, 1996	4,360	8.70
1978	Jan. 9, 1978	2,160	6.29	1997	Dec. 2, 1996	1,730	5.68

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DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	123	17	40	23	e18	136	51	31	28	39	200	15
2	77	27	36	24	e16	115	46	33	25	33	171	20
3	55	47	34	25	e15	88	42	28	23	29	93	13
4	117	32	32	52	e14	74	195	26	20	27	65	10
5	81	29	29	56	e13	65	132	25	23	24	46	8.4
6	65	27	34	39	e12	55	99	23	39	21	48	7.2
7	50	25	30	37	e11	48	76	22	30	18	69	6.8
8	42	24	27	35	e12	46	107	21	23	16	49	6.4
9	39	23	25	34	e11	44	184	19	20	14	39	6.0
10	56	22	26	125	e10	42	134	23	18	14	33	5.7
11	51	21	26	134	e10	61	115	26	22	12	35	5.4
12	39	19	23	93	e12	149	97	21	79	11	32	55
13	36	19	23	e60	e25	100	78	19	73	9.9	27	124
14	57	18	74	e48	e130	83	67	22	61	10	23	43
15	43	17	121	e43	e100	71	57	18	52	21	20	37
16	39	17	97	e35	41	72	51	16	115	17	17	33
17	36	15	79	e38	e32	121	52	15	158	12	15	25
18	34	14	67	e34	31	83	112	16	123	10	13	21
19	30	14	56	e31	31	74	96	37	99	8.8	13	19
20	29	15	63	e29	27	66	81	32	71	8.7	11	18
21	27	15	79	e27	25	142	109	29	72	9.3	9.9	16
22	27	14	61	e25	e25	188	126	36	84	11	9.0	14
23	32	13	52	e24	32	123	96	46	54	8.5	20	13
24	27	13	e46	e22	46	93	78	269	42	7.5	16	14
25	24	18	e45	e21	113	76	64	163	63	7.1	11	13
26	22	58	46	e23	156	64	54	98	97	6.8	9.0	14
27	21	105	37	e21	215	56	47	68	109	6.8	8.1	13
28	20	70	e35	e19	412	130	42	55	85	6.6	8.1	11
29	19	59	33	e17	182	87	37	44	65	5.8	8.1	9.8
30	18	48	28	e16	---	72	33	36	50	127	7.3	9.1
31	17	---	25	e18	---	61	---	32	---	86	7.2	---
TOTAL	1353	855	1429	1228	1777	2685	2558	1349	1823	637.8	1132.7	605.8
MEAN	43.6	28.5	46.1	39.6	61.3	86.6	85.3	43.5	60.8	20.6	36.5	20.2
MAX	123	105	121	134	412	188	195	269	158	127	200	124
MIN	17	13	23	16	10	42	33	15	18	5.8	7.2	5.4
CFM	1.83	1.20	1.94	1.66	2.57	3.64	3.58	1.83	2.55	.86	1.54	.85
IN.	2.11	1.34	2.23	1.92	2.78	4.20	4.00	2.11	2.85	1.00	1.77	.95

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1941 - 2000, BY WATER YEAR (WY)

MEAN	32.5	56.8	61.3	51.7	54.2	85.7	88.9	60.1	30.4	18.4	17.1	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

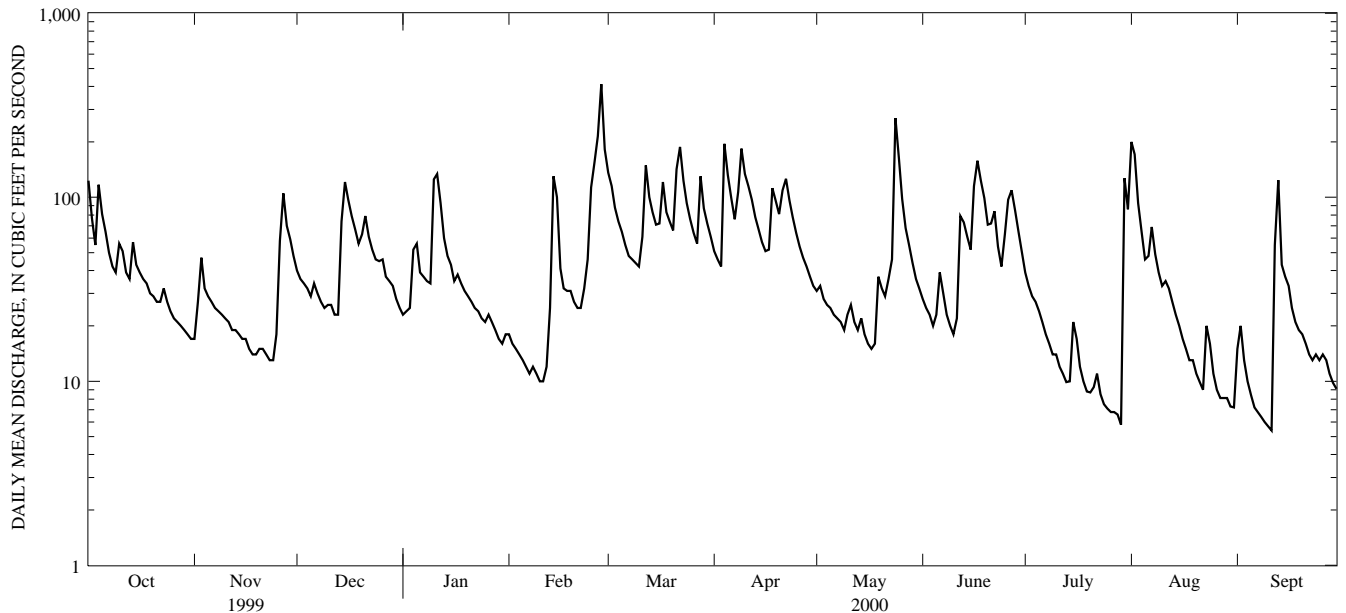
e Estimated.

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SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1941 - 2000	
ANNUAL TOTAL	13486.67		17433.3			
ANNUAL MEAN	36.9		47.6		48.2	
HIGHEST ANNUAL MEAN					77.3	1978
LOWEST ANNUAL MEAN					22.1	1965
HIGHEST DAILY MEAN	e900	Jan 24	412	Feb 28	3910	Jun 22 1972
LOWEST DAILY MEAN	.81	Aug 4	5.4	Sep 11	.20	Sep 11 1964
ANNUAL SEVEN-DAY MINIMUM	.92	Aug 2	6.6	Sep 5	.31	Sep 8 1964
INSTANTANEOUS PEAK FLOW			a1050	Aug 1	a4630	Jun 22 1972
INSTANTANEOUS PEAK STAGE			4.61	Aug 1	8.94	Jun 22 1972
INSTANTANEOUS LOW FLOW					.10	Sep 11 1964
ANNUAL RUNOFF (CFSM)	1.55		2.00		2.02	
ANNUAL RUNOFF (INCHES)	21.08		27.25		27.51	
10 PERCENT EXCEEDS	74		109		102	
50 PERCENT EXCEEDS	27		32		25	
90 PERCENT EXCEEDS	1.9		11		4.3	

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



1-YEAR HYDROGRAPH
 OCTOBER 1, 1999 TO SEPTEMBER 30, 2000