

## WEST BRANCH SUSQUEHANNA RIVER BASIN

## 01549500 BLOCKHOUSE CREEK NEAR ENGLISH CENTER, PA

**LOCATION.**--Lat 41°28'25", long 77°13'52", Lycoming County, Hydrologic Unit 02050205, on right bank just downstream from bridge on State Highway 284, 0.7 mi upstream from Blacks Creek, 1.7 mi upstream from confluence with Texas Creek, and 5.0 mi northeast of English Center.

**DRAINAGE AREA.**--37.7 mi<sup>2</sup>.

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

**REVISED RECORDS.**--WSP 951: 1941. WSP 1031: 1942-44(M). WSP 1502: 1942. WDR PA-75-2: 1973(P), 1974(P).

**GAGE.**--Water-stage recorder. Datum of gage is 1,041.85 ft above sea level.

**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 of Mar. 18, 1936 reached a stage of 9.0 ft. from floodmark, discharge, 5,780 ft<sup>3</sup>/s, from rating curve extended above 1,200 ft<sup>3</sup>/s on basis of contracted-opening measurement at gage height 8.81 ft.

**PEAK DISCHARGES FOR CURRENT YEAR.**--Peak discharges greater than a base discharge of 1,100 ft<sup>3</sup>/s and maximum (\*):

Date	Time	Discharge ft <sup>3</sup> /s	Gage Height (ft)	Date	Time	Discharge ft <sup>3</sup> /s	Gage Height (ft)
Sept. 24	2215	*1,240	*4.97	No other peak greater than base discharge.			

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	e2.5	4.2	9.5	e14	e14	e19	142	37	18	17	e2.8	11
2	e2.4	4.1	8.2	e15	e11	e19	118	36	24	19	e2.7	7.2
3	e2.3	4.0	e7.6	e14	e13	e19	105	32	33	11	e2.5	4.8
4	e2.5	3.9	e7.2	e13	e12	e18	113	30	25	9.7	e2.3	5.3
5	e3.9	3.9	e7.0	e12	e10	e20	129	27	21	9.1	e2.1	5.4
6	25	3.8	e6.8	e11	e9.0	e19	179	24	19	8.4	e2.0	4.1
7	11	3.8	e6.6	e10	e9.0	e18	239	22	18	7.3	e1.8	3.3
8	6.8	3.7	e6.3	e9.8	e8.8	e17	291	21	16	7.3	e1.6	2.9
9	5.6	4.0	e6.0	e9.6	e16	e18	354	20	15	6.9	e1.4	2.7
10	4.8	15	e6.0	e9.7	53	e17	431	19	13	6.1	e1.5	3.6
11	4.4	19	e6.2	e9.7	33	e16	266	18	13	10	e1.7	4.2
12	3.9	12	e10	e10	32	e18	190	18	12	7.5	e1.5	3.1
13	3.6	9.4	e14	e10	26	55	144	19	18	5.8	e1.4	3.1
14	3.4	e8.4	e8.0	e9.6	28	67	110	16	12	5.2	e1.3	37
15	3.3	e7.6	e7.0	e9.6	47	59	91	15	10	4.7	e1.2	14
16	3.2	7.0	e10	e9.4	40	54	125	14	14	4.5	e1.1	8.3
17	4.3	6.6	e300	e9.1	e38	79	100	13	20	4.8	20	6.2
18	54	6.3	119	e8.6	e34	89	90	13	11	7.2	7.0	5.1
19	25	6.0	77	e8.0	e31	87	79	12	9.2	6.0	4.4	4.4
20	13	5.6	62	e7.8	e28	96	72	11	11	4.4	13	6.0
21	9.6	5.5	e56	e8.2	e26	113	86	11	18	3.8	6.6	9.2
22	7.9	5.1	e40	e8.1	e24	163	111	12	13	3.4	4.2	6.4
23	6.7	e4.8	e34	e8.1	e25	149	84	17	38	e3.0	4.2	5.1
24	6.1	4.4	e30	e8.0	e22	140	79	12	35	e2.9	4.6	217
25	5.8	4.3	e28	e7.9	e21	106	70	10	23	4.9	3.5	445
26	5.5	8.9	e25	e8.4	e24	86	63	40	18	7.3	2.9	154
27	5.3	16	e23	e8.0	e22	71	56	32	15	5.2	4.0	87
28	5.0	13	e20	e7.8	e20	64	49	33	12	3.7	9.8	64
29	4.6	11	e19	e7.7	---	61	44	26	10	e3.0	19	51
30	4.4	10	e17	e10	---	288	40	22	9.4	e2.8	7.6	39
31	4.3	---	e16	e18	---	178	---	19	---	e3.0	5.8	---
TOTAL	250.1	221.3	992.4	310.1	676.8	2223	4050	651	523.6	204.9	145.5	1219.4
MEAN	8.07	7.38	32.0	10.0	24.2	71.7	135	21.0	17.5	6.61	4.69	40.6
MAX	54	19	300	18	53	288	431	40	38	19	20	445
MIN	2.3	3.7	6.0	7.7	8.8	16	40	10	9.2	2.8	1.1	2.7
CFSM	.21	.20	.85	.27	.64	1.90	3.58	.56	.46	.18	.12	1.08
IN.	.25	.22	.98	.31	.67	2.19	4.00	.64	.52	.20	.14	1.20

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

MEAN	32.9	61.2	66.4	56.6	68.5	124	125	77.2	40.9	18.4	14.5	16.2
MAX	194	195	184	182	268	260	429	211	303	74.7	204	115
(WY)	1991	1978	1974	1996	1981	1945	1993	1946	1972	1990	1994	1975
MIN	1.36	3.25	4.34	6.18	12.8	16.5	24.8	15.7	5.42	1.98	1.21	.43
(WY)	1965	1999	1999	1981	1941	1969	1946	1941	1991	1955	1966	1964

e Estimated.

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SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1941 - 2001	
ANNUAL TOTAL	18684.0		11468.1			
ANNUAL MEAN	51.0		31.4		58.4	
HIGHEST ANNUAL MEAN					104	1978
LOWEST ANNUAL MEAN					26.3	1965
HIGHEST DAILY MEAN	544	Feb 28	445	Sep 25	3180	Jun 22 1972
LOWEST DAILY MEAN	e1.8	Sep 11	e1.1	Aug 16	.00	Aug 6 1962c
ANNUAL SEVEN-DAY MINIMUM	a2.2	Sep 6	a1.4	Aug 10	.19	Aug 29 1962
MAXIMUM PEAK FLOW			1240	Sep 24	b6260	Jun 23 1972
MAXIMUM PEAK STAGE			4.97	Sep 24	9.34	Jun 23 1972
INSTANTANEOUS LOW FLOW					.00	Aug 6 1962c
ANNUAL RUNOFF (CFSM)	1.35		.83		1.55	
ANNUAL RUNOFF (INCHES)	18.44		11.32		21.04	
10 PERCENT EXCEEDS	127		86		132	
50 PERCENT EXCEEDS	25		11		27	
90 PERCENT EXCEEDS	3.3		3.6		3.7	

- a Computed using estimated daily discharges.
- b From rating curve extended above 1,200 ft<sup>3</sup>/s on basis of contracted-opening measurement at gage height 8.81 ft.
- c Also Aug. 31, Sept. 1, 2, 1962.
- e Estimated.

