

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 mi².

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 National Geodetic Vertical Datum of 1929.

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 ft³/s, from rating curve extended above 1,200 ft³/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 ft³/s and maximum (*):

Date	Time	Discharge ft ³ /s	Gage Height (ft)	Date	Time	Discharge ft ³ /s	Gage Height (ft)
Mar. 26	1915	*784	*4.21	(No peaks above 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	32	17	148	e26	121	e26	100	99	28	12	4.7	e2.0
2	28	17	117	e24	110	e24	81	130	24	11	4.7	e2.3
3	25	17	92	e23	e90	e52	71	105	21	11	4.6	e2.2
4	22	16	75	e23	e72	e40	61	93	20	9.8	4.1	e2.0
5	20	15	63	25	e63	e36	55	86	20	9.4	e4.4	e1.9
6	18	15	55	25	61	e34	50	80	70	8.6	e5.4	e1.8
7	17	14	49	25	55	36	46	75	64	8.1	e5.2	e1.8
8	15	13	44	e22	49	35	43	66	34	7.7	e4.8	e1.7
9	13	13	45	22	44	35	43	71	27	7.6	e4.1	e1.6
10	13	12	40	23	76	38	47	72	25	9.0	e3.4	e1.6
11	12	12	37	24	175	33	38	57	23	7.4	e2.8	e1.8
12	11	11	35	23	e95	32	35	117	21	6.6	e2.6	e1.9
13	11	11	43	23	e85	32	42	336	21	6.0	3.0	e1.9
14	12	11	57	21	e72	32	71	415	35	5.6	3.2	e2.0
15	34	11	78	21	70	30	202	251	74	5.3	3.2	e3.4
16	22	11	64	20	64	43	140	159	57	4.9	3.2	14
17	35	10	81	19	59	37	121	117	43	4.4	3.6	6.8
18	24	9.9	173	19	49	37	106	176	38	4.3	2.8	4.0
19	20	9.7	131	e17	44	39	93	121	38	4.1	2.9	3.1
20	19	11	114	e16	43	50	84	101	31	5.3	2.8	2.7
21	18	10	92	e15	44	65	76	89	27	4.7	2.5	2.4
22	17	9.7	74	e16	41	62	70	76	25	4.0	2.4	3.2
23	18	9.3	66	17	37	61	62	66	23	7.0	2.4	25
24	27	9.1	66	32	33	60	55	58	26	13	3.6	9.7
25	26	72	55	45	32	58	56	50	24	6.2	4.4	6.1
26	23	71	e44	37	33	277	53	44	20	5.2	3.0	5.0
27	21	52	e40	38	36	368	47	39	19	5.5	e2.3	43
28	20	47	e36	41	e28	233	104	35	18	14	e2.3	52
29	19	60	e32	47	---	169	140	33	15	13	e2.2	17
30	18	104	e30	75	---	133	106	31	14	7.9	e2.2	10
31	17	---	e28	85	---	108	---	30	---	5.7	e2.1	---
TOTAL	627	700.7	2104	889	1781	2315	2298	3278	925	234.3	104.9	233.9
MEAN	20.23	23.36	67.87	28.68	63.61	74.68	76.60	105.7	30.83	7.558	3.384	7.797
MAX	35	104	173	85	175	368	202	415	74	14	5.4	52
MIN	11	9.1	28	15	28	24	35	30	14	4.0	2.1	1.6
CFSM	0.54	0.62	1.80	0.76	1.69	1.98	2.03	2.80	0.82	0.20	0.09	0.21
IN.	0.62	0.69	2.08	0.88	1.76	2.28	2.27	3.23	0.91	0.23	0.10	0.23

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

MEAN	32.68	60.58	66.43	56.14	68.42	122.8	124.5	77.63	40.74	18.25	14.30	16.08
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	0.43
(WY)	1965	1999	1999	1981	1941	1969	1946	1941	1991	1955	1966	1964

e Estimated.

WEST BRANCH SUSQUEHANNA RIVER BASIN

01549500 BLOCKHOUSE CREEK NEAR ENGLISH CENTER, PA--Continued

SUMMARY STATISTICS	FOR 2001 CALENDAR YEAR		FOR 2002 WATER YEAR		WATER YEARS 1941 - 2002	
ANNUAL TOTAL	13436.0		15490.8			
ANNUAL MEAN	36.8		42.4		58.1	
HIGHEST ANNUAL MEAN					104	1978
LOWEST ANNUAL MEAN					26.3	1965
HIGHEST DAILY MEAN	445	Sep 25	415	May 14	3180	Jun 22 1972
LOWEST DAILY MEAN	e1.1	Aug 16	e1.6	Sep 9,10	0.00	Aug 6 1962c
ANNUAL SEVEN-DAY MINIMUM	a1.4	Aug 10	a1.7	Sep 5	0.19	Aug 29 1962
MAXIMUM PEAK FLOW			784	Mar 26	b6260	Jun 23 1972
MAXIMUM PEAK STAGE			4.21	Mar 26	9.34	Jun 23 1972
INSTANTANEOUS LOW FLOW					0.00	Aug 6 1962c
ANNUAL RUNOFF (CFSM)	0.98		1.13		1.54	
ANNUAL RUNOFF (INCHES)	13.26		15.29		20.94	
10 PERCENT EXCEEDS	91		94		131	
50 PERCENT EXCEEDS	17		27		27	
90 PERCENT EXCEEDS	4.2		3.3		3.7	

a Computed using estimated daily discharges.

b From rating curve extended above 1,200 ft³/s on basis of contracted-opening measurement at gage height 8.81 ft.

c Also Aug. 31, Sept. 1, 2, 1962.

e Estimated.

