

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 sea level.

REMARKS.--Records fair 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)
Jan. 24	0745	1,880	5.78	Mar. 4	0015	*3,480	*7.29

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.3	2.6	3.3	e2.8	e50	42	174	36	8.7	10	e3.0	e.68
2	e2.1	2.5	3.1	e2.4	e90	36	220	34	8.9	9.0	e2.5	e.62
3	e2.6	2.5	3.1	e4.5	99	345	190	32	11	7.8	e2.0	e.60
4	e3.5	2.4	3.0	e9.0	90	e1300	179	30	9.1	5.8	e1.8	e.62
5	e2.8	2.4	3.0	e5.0	84	e350	135	29	7.7	4.5	e1.7	e.62
6	2.6	2.4	3.0	e4.5	74	235	105	27	7.0	3.6	e1.4	e.70
7	2.4	2.4	3.0	e4.0	67	145	89	27	6.4	3.6	e1.4	e5.0
8	20	2.3	3.0	e3.7	61	e100	75	35	7.4	3.3	e1.4	25
9	22	2.3	3.0	e4.0	55	e84	117	45	6.4	2.9	e1.4	12
10	15	2.6	3.0	e4.1	56	e74	114	33	5.4	5.3	e1.3	7.7
11	8.9	e4.3	2.8	e4.3	56	e64	105	29	5.4	4.3	e1.2	5.2
12	6.1	e5.0	2.7	e4.5	72	e56	110	28	5.1	3.0	e1.2	3.9
13	4.6	e4.2	2.6	e4.9	74	e52	92	27	4.4	e2.9	e1.3	3.3
14	4.0	e3.7	2.5	e5.2	e60	50	81	26	4.6	e2.7	e2.3	19
15	3.7	e3.3	e2.1	e6.8	e50	49	72	24	5.2	e2.4	e4.5	21
16	3.4	e3.1	e2.3	e8.0	e52	49	71	22	4.4	e2.3	e2.1	96
17	3.2	e3.0	2.5	e10	63	82	72	21	7.7	e2.0	e1.2	131
18	3.0	e3.0	2.8	e14	61	159	62	21	13	e2.2	e1.1	45
19	3.0	e3.0	2.5	e58	55	132	57	20	7.5	e2.6	e1.0	30
20	3.0	e3.0	2.6	e40	51	117	55	18	5.4	e3.0	e3.0	24
21	2.9	4.2	3.1	e23	47	118	50	17	4.4	e2.5	e3.3	31
22	2.8	3.9	26	e30	e45	112	47	16	3.8	e2.1	e1.8	25
23	2.8	3.5	e12	e100	e40	96	54	18	3.5	e2.1	e1.4	20
24	2.8	3.3	e8.0	e900	e38	106	63	19	3.3	e2.1	e1.3	17
25	2.8	3.0	e6.0	372	e36	111	51	19	3.0	e2.1	e1.1	15
26	2.8	3.5	e5.0	192	e32	98	49	16	3.0	e3.5	e2.7	13
27	2.7	4.8	e4.5	123	e30	98	47	15	3.1	e2.3	e1.8	12
28	2.8	4.1	e4.0	108	42	106	44	13	26	e1.9	e1.5	12
29	2.8	3.7	e3.6	95	---	118	42	12	28	e1.6	e1.8	13
30	2.8	3.4	e3.3	e68	---	129	38	10	18	e3.0	e1.3	309
31	2.7	---	e3.0	e56	---	137	---	9.5	---	e3.9	e1.0	---
TOTAL	148.9	97.4	134.4	2266.7	1630	4750	2660	728.5	236.8	110.3	55.8	898.94
MEAN	4.80	3.25	4.34	73.1	58.2	153	88.7	23.5	7.89	3.56	1.80	30.0
MAX	22	5.0	26	900	99	1300	220	45	28	10	4.5	309
MIN	2.1	2.3	2.1	2.4	30	36	38	9.5	3.0	1.6	1.0	.60
CFSM	.13	.09	.11	1.94	1.54	4.06	2.35	.62	.21	.09	.05	.79
IN.	.15	.10	.13	2.24	1.61	4.69	2.62	.72	.23	.11	.06	.89

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1941 - 1999, BY WATER YEAR (WY)

MEAN	33.2	61.9	66.9	57.6	68.8	125	125	78.2	40.9	18.7	14.8	16.0
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 1998 CALENDAR YEAR		FOR 1999 WATER YEAR		WATER YEARS 1941 - 1999	
ANNUAL TOTAL	20277.3		13717.74		58.8	
ANNUAL MEAN	55.6		37.6		104	
HIGHEST ANNUAL MEAN					1978	
LOWEST ANNUAL MEAN					26.3	
HIGHEST DAILY MEAN	1070	Jan 8	e1300	Mar 4	3180	Jun 22 1972
LOWEST DAILY MEAN	2.0	Sep 16	e.60	Sep 3	.00	Aug 6 1962c
ANNUAL SEVEN-DAY MINIMUM	a2.2	Sep 14	a.69	Aug 31	.19	Aug 29 1962
INSTANTANEOUS PEAK FLOW			b3480	Mar 4	b6260	Jun 23 1972
INSTANTANEOUS PEAK STAGE			7.29	Mar 4	9.34	Jun 23 1972
INSTANTANEOUS LOW FLOW					.00	Aug 6 1962c
ANNUAL RUNOFF (CFSM)	1.47		1.00		1.56	
ANNUAL RUNOFF (INCHES)	20.01		13.54		21.18	
10 PERCENT EXCEEDS	141		98		133	
50 PERCENT EXCEEDS	15		6.4		27	
90 PERCENT EXCEEDS	2.5		2.1		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.

