

WEST BRANCH SUSQUEHANNA RIVER BASIN

01544500 KETTLE CREEK AT CROSS FORK, PA

LOCATION.--Lat 41°28'33", long 77°49'34", Clinton County, Hydrologic Unit 02050203, on right bank just upstream from abutment of former highway bridge on Township Route 318, 0.2 mi downstream from Potter-Clinton County line, and 0.7 mi southeast of Cross Fork.

DRAINAGE AREA.--136 mi².

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

GAGE.--Water-stage recorder. Datum of gage is 1,027.12 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 and landline telemetry at station.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage known, about 14.0 ft, Mar. 18, 1936, from information by local residents, discharge, about 20,000 ft³/s, from rating curve extended above 9,200 ft³/s on basis of slope-area measurement of peak flow.

PEAK DISCHARGES FOR CURRENT YEAR.--Peak discharges greater than a base discharge of 2,400 ft³/s and maximum (*):

Date	Time	Discharge ft ³ /s	Gage Height (ft)	Date	Time	Discharge ft ³ /s	Gage Height (ft)
Jan. 24	0600	Ice jam	*6.28	Jan. 24	1130	*3,000	5.62

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	7.2	14	18	e34	305	e160	984	180	38	22	11	3.6
2	6.0	14	17	e33	397	e140	1160	164	38	36	10	3.3
3	6.5	14	17	e38	433	e230	1170	151	40	29	6.9	3.0
4	12	13	16	e42	485	e1100	1050	140	37	21	5.2	2.8
5	13	13	19	e38	482	911	770	130	32	17	5.3	2.6
6	10	13	19	e35	451	723	570	120	30	15	6.0	4.2
7	9.1	13	18	e33	410	535	456	113	29	18	5.3	28
8	103	13	17	e29	355	e390	381	116	27	15	6.3	21
9	99	13	17	e31	297	351	418	129	25	14	9.8	12
10	79	14	17	e33	278	313	472	106	24	36	7.3	8.9
11	37	26	16	e28	269	267	522	99	24	21	6.0	7.0
12	26	30	15	e25	314	234	523	96	23	15	5.5	5.7
13	21	22	13	e28	401	207	443	95	21	13	5.1	5.1
14	20	19	e11	e36	397	194	394	92	21	12	22	7.6
15	20	18	e10	e44	352	186	347	87	27	11	21	12
16	19	16	e12	e46	332	190	319	82	21	10	12	24
17	16	16	15	e47	345	225	313	78	20	9.2	7.9	69
18	15	16	15	e54	335	e400	269	74	23	9.0	5.6	27
19	17	15	15	e130	311	e440	256	71	20	8.6	5.1	18
20	17	15	15	e160	285	e460	252	67	18	18	6.3	15
21	17	18	32	e140	255	470	242	62	16	12	16	19
22	17	19	240	e140	e200	461	235	60	15	11	13	17
23	16	17	e140	e450	e170	396	256	67	14	11	8.3	13
24	15	15	e110	e2200	e160	375	274	75	13	9.4	e6.8	11
25	15	14	e60	1830	e150	376	282	78	13	11	e6.4	9.7
26	15	16	e44	1070	e140	370	298	62	13	16	e7.2	8.9
27	15	22	e46	693	e130	386	283	57	12	11	e7.8	8.5
28	15	21	e48	541	e150	440	252	50	34	8.5	7.4	8.5
29	16	19	e42	476	---	573	224	46	45	7.1	5.8	17
30	16	17	e38	412	---	728	200	42	38	5.9	4.9	173
31	15	---	e36	345	---	821	---	39	---	5.7	4.2	---
TOTAL	724.8	505	1148	9241	8589	13052	13615	2828	751	458.4	257.4	565.4
MEAN	23.4	16.8	37.0	298	307	421	454	91.2	25.0	14.8	8.30	18.8
MAX	103	30	240	2200	485	1100	1170	180	45	36	22	173
MIN	6.0	13	10	25	130	140	200	39	12	5.7	4.2	2.6
CFSM	.17	.12	.27	2.19	2.26	3.10	3.34	.67	.18	.11	.06	.14
IN.	.20	.14	.31	2.53	2.35	3.57	3.72	.77	.21	.13	.07	.15

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

MEAN	110	215	245	227	259	488	506	319	161	84.1	58.1	63.2
MAX	700	868	552	663	800	1055	1303	721	797	436	581	699
(WY)	1991	1951	1973	1952	1981	1945	1993	1946	1972	1992	1994	1975
MIN	6.23	9.53	18.8	18.4	52.1	132	112	63.8	22.1	12.8	7.07	6.32
(WY)	1965	1965	1961	1961	1963	1981	1946	1941	1991	1962	1971	1964

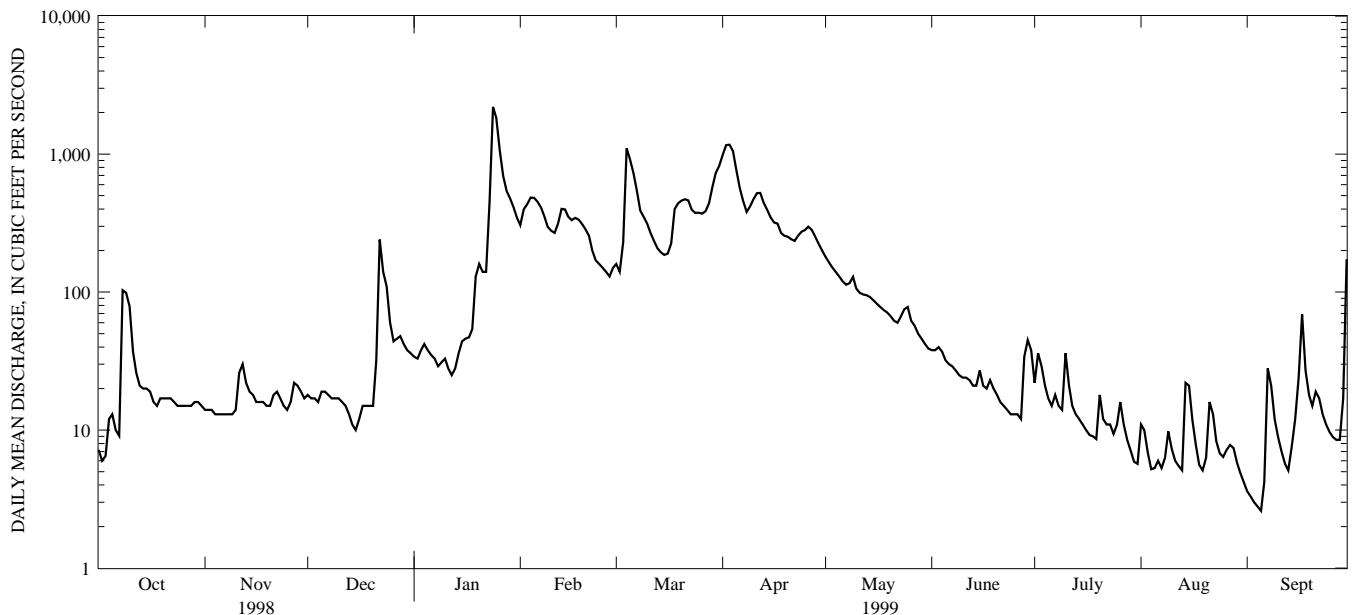
e Estimated.

WEST BRANCH SUSQUEHANNA RIVER BASIN

01544500 KETTLE CREEK AT CROSS FORK, PA--Continued

SUMMARY STATISTICS	FOR 1998 CALENDAR YEAR		FOR 1999 WATER YEAR		WATER YEARS 1941 - 1999	
ANNUAL TOTAL	76033.9		51735.0			
ANNUAL MEAN	208		142		228	
HIGHEST ANNUAL MEAN					351	1951
LOWEST ANNUAL MEAN					125	1941
HIGHEST DAILY MEAN	3480	Jan 8	e2200	Jan 24	10500	Jun 23 1972
LOWEST DAILY MEAN	5.5	Sep 20	2.6	Sep 5	1.2	Sep 2-4 1971
ANNUAL SEVEN-DAY MINIMUM	6.8	Sep 14	3.4	Aug 31	1.4	Sep 1 1971
INSTANTANEOUS PEAK FLOW			a3000	Jan 24	b14300	Jun 23 1972
INSTANTANEOUS PEAK STAGE			c6.28	Jan 24	d11.76	Jun 23 1972
ANNUAL RUNOFF (CFSM)	1.53		1.04		1.67	
ANNUAL RUNOFF (INCHES)	20.80		14.15		22.76	
10 PERCENT EXCEEDS	551		411		541	
50 PERCENT EXCEEDS	60		27		109	
90 PERCENT EXCEEDS	11		7.7		16	

- a Corresponding gage height 5.62 ft.
- b From rating curve extended above 9,200 ft³/s on basis of slope-area measurement of peak flow.
- c Backwater from ice.
- d From floodmark in gage.
- e Estimated.



1-YEAR HYDROGRAPH
OCTOBER 1, 1998 TO SEPTEMBER 30, 1999