

## 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 mi<sup>2</sup>.

**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 good 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 ft<sup>3</sup>/s, from rating curve extended above 9,200 ft<sup>3</sup>/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 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)
Apr. 10	1130	*1,640	*4.27	(No peaks above 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	9.4	14	74	e79	e90	122	402	182	137	65	13	298
2	9.2	14	63	e74	e81	119	417	165	141	69	12	185
3	9.3	14	e54	e67	e71	112	413	150	155	43	12	135
4	9.7	13	e50	e60	e64	107	396	135	132	39	12	111
5	15	13	e65	e66	e80	114	426	123	124	38	11	88
6	60	13	e57	e66	e75	130	593	111	119	33	9.8	66
7	34	12	e48	e60	e71	101	917	102	113	28	9.2	54
8	24	12	e65	e54	e67	87	1260	95	104	28	8.5	47
9	19	14	e54	e48	e75	88	1300	95	94	27	8.4	40
10	16	29	e50	e52	e160	79	1490	84	86	29	8.7	37
11	15	32	e58	e56	e240	75	1130	78	81	33	9.2	34
12	14	24	112	e48	261	74	821	85	73	27	8.7	29
13	13	21	91	e54	231	122	627	75	65	22	8.2	27
14	13	20	112	e60	212	170	494	67	57	20	7.8	90
15	12	19	106	e64	274	168	407	65	50	19	7.1	48
16	13	18	94	e67	340	171	416	60	47	18	8.6	38
17	16	18	e260	e65	369	195	397	58	46	19	73	34
18	48	18	e490	e61	338	218	400	57	40	44	23	31
19	40	17	396	e59	e300	229	386	53	36	24	16	29
20	28	16	308	e58	281	259	362	48	35	19	134	41
21	24	16	e240	e56	252	337	374	50	40	17	46	52
22	22	15	e200	e54	203	591	423	68	52	15	29	42
23	20	15	e160	e51	e190	537	491	99	112	15	27	36
24	19	16	e140	e54	e170	524	496	65	87	14	32	63
25	18	16	e130	e57	165	452	428	58	59	18	22	430
26	18	67	e120	e48	158	380	363	94	49	22	21	461
27	17	109	e130	e43	140	315	314	96	42	18	56	365
28	17	93	e110	e44	130	268	268	151	38	14	41	284
29	15	87	e100	e42	---	238	228	163	34	13	74	220
30	14	85	e90	e48	---	305	200	159	32	14	45	173
31	14	---	e85	e99	---	367	---	144	---	14	140	---
TOTAL	615.6	870	4112	1814	5088	7054	16639	3035	2280	818	933.2	3588
MEAN	19.9	29.0	133	58.5	182	228	555	97.9	76.0	26.4	30.1	120
MAX	60	109	490	99	369	591	1490	182	155	69	140	461
MIN	9.2	12	48	42	64	74	200	48	32	13	7.1	27
CFSM	.15	.21	.98	.43	1.34	1.67	4.08	.72	.56	.19	.22	.88
IN.	.17	.24	1.12	.50	1.39	1.93	4.55	.83	.62	.22	.26	.98

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

MEAN	107	211	243	223	258	481	507	316	162	82.5	57.0	63.3
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.

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01544500 KETTLE CREEK AT CROSS FORK, PA--Continued

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1941 - 2001	
ANNUAL TOTAL	65359.0		46846.8			
ANNUAL MEAN	179		128		226	
HIGHEST ANNUAL MEAN					351	1951
LOWEST ANNUAL MEAN					125	1941
HIGHEST DAILY MEAN	1530	Feb 28	1490	Apr 10	10500	Jun 23 1972
LOWEST DAILY MEAN	6.6	Sep 7,8	7.1	Aug 15	1.2	Sep 2-4 1971
ANNUAL SEVEN-DAY MINIMUM	7.0	Sep 5	8.3	Aug 9	1.4	Sep 1 1971
MAXIMUM PEAK FLOW			1640	Apr 10	a14300	Jun 23 1972
MAXIMUM PEAK STAGE			4.27	Apr 10	b11.76	Jun 23 1972
ANNUAL RUNOFF (CFSM)	1.31		.94		1.66	
ANNUAL RUNOFF (INCHES)	17.88		12.81		22.54	
10 PERCENT EXCEEDS	491		364		535	
50 PERCENT EXCEEDS	92		64		107	
90 PERCENT EXCEEDS	12		14		16	

a From rating curve extended above 9,200 ft<sup>3</sup>/s on basis of slope-area measurement of peak flow.  
 b From floodmark in gage.

