

**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 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 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)
May 13	2345	*2,480	*5.18	No other peak greater than 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	146	126	820	e120	530	e125	503	611	120	67	22	7.5
2	126	121	779	e110	664	124	425	617	106	61	20	7.2
3	109	122	614	e110	652	171	369	607	96	56	21	7.3
4	95	108	481	e120	552	e160	309	568	90	51	17	6.9
5	83	101	385	e120	433	e160	268	488	97	46	16	6.3
6	76	94	318	115	352	e200	243	406	221	41	16	5.9
7	69	89	269	116	298	205	215	347	329	38	14	5.7
8	61	85	234	e100	255	196	195	288	296	36	13	5.4
9	54	82	215	e100	216	187	187	298	257	36	13	5.2
10	51	78	185	94	215	188	176	292	219	41	12	5.1
11	48	75	165	89	380	167	155	280	187	32	11	4.9
12	46	70	150	79	433	159	148	486	164	29	11	4.7
13	45	65	164	76	445	154	163	1620	144	27	11	4.8
14	46	63	192	72	392	148	195	2210	214	26	11	4.9
15	93	62	307	70	349	140	424	1440	693	24	9.8	21
16	67	60	383	67	311	142	510	958	963	23	11	e100
17	103	57	473	67	271	127	466	702	738	22	12	e40
18	91	53	813	64	227	129	405	704	551	21	11	e15
19	93	53	916	e66	197	127	355	728	413	23	10	12
20	95	61	756	e90	182	153	312	708	314	26	9.4	11
21	93	54	582	e110	199	197	267	596	248	21	8.9	9.9
22	93	50	452	e90	171	227	239	481	203	18	8.9	10
23	96	48	375	e76	155	246	208	391	174	30	11	24
24	167	46	330	93	144	251	181	326	153	41	12	16
25	183	192	276	151	141	244	178	270	132	23	19	12
26	192	401	236	190	149	439	160	229	114	21	12	11
27	193	413	212	210	152	1080	141	193	115	20	10	82
28	172	373	194	218	141	923	256	169	114	66	8.8	154
29	156	363	174	227	---	749	676	150	87	70	8.9	66
30	144	444	156	296	---	655	731	144	76	37	8.9	45
31	133	---	e140	382	---	563	---	138	---	26	8.2	---
TOTAL	3219	4009	11746	3888	8606	8736	9060	17445	7628	1099	387.8	710.7
MEAN	103.8	133.6	378.9	125.4	307.4	281.8	302.0	562.7	254.3	35.45	12.51	23.69
MAX	193	444	916	382	664	1080	731	2210	963	70	22	154
MIN	45	46	140	64	141	124	141	138	76	18	8.2	4.7
CFSM	0.76	0.98	2.79	0.92	2.26	2.07	2.22	4.14	1.87	0.26	0.09	0.17
IN.	0.88	1.10	3.21	1.06	2.35	2.39	2.48	4.77	2.09	0.30	0.11	0.19

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

MEAN	107.2	209.9	245.5	221.8	259.2	477.8	503.9	319.8	163.0	81.78	56.30	62.67
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 2001 CALENDAR YEAR		FOR 2002 WATER YEAR		WATER YEARS 1941 - 2002	
ANNUAL TOTAL	60223.2		76534.5		225	
ANNUAL MEAN	165		210		351	
HIGHEST ANNUAL MEAN					1951	
LOWEST ANNUAL MEAN					1941	
HIGHEST DAILY MEAN	1490	Apr 10	2210	May 14	10500	Jun 23 1972
LOWEST DAILY MEAN	7.1	Aug 15	4.7	Sep 12	1.2	Sep 2-4 1971
ANNUAL SEVEN-DAY MINIMUM	8.3	Aug 9	5.0	Sep 8	1.4	Sep 1 1971
MAXIMUM PEAK FLOW			2480	May 13	a14300	Jun 23 1972
MAXIMUM PEAK STAGE			5.18	May 13	b11.76	Jun 23 1972
ANNUAL RUNOFF (CFSM)	1.21		1.54		1.66	
ANNUAL RUNOFF (INCHES)	16.47		20.93		22.52	
10 PERCENT EXCEEDS	404		506		535	
50 PERCENT EXCEEDS	87		141		108	
90 PERCENT EXCEEDS	23		12		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.

