

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 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 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)
Mar. 21	2130	*2,550	*5.25	No other peak greater than base discharge.			

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	33	77	144	246	e75	e200	368	97	965	110	1180	60
2	27	73	126	509	e85	e190	460	111	1070	97	1240	265
3	23	67	104	461	e80	e180	577	98	812	87	884	215
4	21	65	e91	407	e95	e170	605	92	641	78	698	326
5	23	63	e95	346	e110	e160	975	97	524	70	591	390
6	20	97	e100	304	e99	e160	1100	103	440	65	517	347
7	17	108	e96	265	e110	e150	894	102	432	68	428	283
8	15	115	e92	246	e110	e150	689	e130	394	66	360	230
9	14	117	e84	242	e110	e150	548	119	401	57	440	191
10	13	115	e74	228	e100	e160	452	125	378	57	1430	162
11	13	115	e86	207	e95	e140	412	135	e362	95	1080	135
12	15	107	e100	195	e92	e150	399	144	366	62	755	118
13	16	110	e120	181	e90	e150	378	140	393	49	552	112
14	17	100	e140	175	e89	e140	350	133	e437	42	414	123
15	15	99	196	e170	e85	e150	324	130	e412	37	320	118
16	21	107	156	e150	e80	e300	293	167	e340	39	262	169
17	50	259	133	e140	e70	e700	261	194	e276	34	225	129
18	34	391	e120	e130	e73	1750	229	232	264	59	180	121
19	36	379	161	e140	e80	1910	208	256	219	72	149	171
20	48	330	296	e150	e89	1680	188	250	192	46	127	222
21	41	281	559	e130	e80	2280	178	254	367	100	112	240
22	37	269	537	e110	e80	2270	181	213	518	479	100	250
23	35	248	450	e90	e140	1610	158	191	524	499	89	707
24	33	238	365	e100	e340	1170	140	258	427	870	78	712
25	32	233	328	e94	e320	983	131	288	334	731	71	601
26	97	217	269	e93	e260	925	128	494	266	513	69	467
27	98	202	223	e86	e240	783	120	617	216	476	72	417
28	92	180	197	e80	e220	631	110	626	177	730	61	1470
29	86	167	179	e80	---	548	105	569	147	623	57	1310
30	87	159	159	e80	---	e508	100	492	127	465	62	859
31	81	---	153	e77	---	411	---	477	---	346	51	---
TOTAL	1190	5088	5933	5912	3497	20859	11061	7334	12421	7122	12654	10920
MEAN	38.4	170	191	191	125	673	369	237	414	230	408	364
MAX	98	391	559	509	340	2280	1100	626	1070	870	1430	1470
MIN	13	63	74	77	70	140	100	92	127	34	51	60
CFSM	0.28	1.25	1.41	1.40	0.92	4.95	2.71	1.74	3.04	1.69	3.00	2.68
IN.	0.33	1.39	1.62	1.62	0.96	5.71	3.03	2.01	3.40	1.95	3.46	2.99

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1941 - 2003, BY WATER YEAR (WY)

MEAN	106	209	245	221	257	481	502	318	167	84.1	61.9	67.4
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 2002 CALENDAR YEAR		FOR 2003 WATER YEAR		WATER YEARS 1941 - 2003	
ANNUAL TOTAL	69771.5		103991			
ANNUAL MEAN	191		285		226	
HIGHEST ANNUAL MEAN					351	
LOWEST ANNUAL MEAN					125	
HIGHEST DAILY MEAN	2210	May 14	2280	Mar 21	10500	Jun 23 1972
LOWEST DAILY MEAN	4.7	Sep 12	13	Oct 10,11	1.2	Sep 2-4 1971
ANNUAL SEVEN-DAY MINIMUM	5.0	Sep 8	15	Oct 7	1.4	Sep 1 1971
MAXIMUM PEAK FLOW			2550	Mar 21	a 14300	Jun 23 1972
MAXIMUM PEAK STAGE			5.25	Mar 21	b 11.76	Jun 23 1972
ANNUAL RUNOFF (CFSM)	1.41		2.09		1.66	
ANNUAL RUNOFF (INCHES)	19.08		28.44		22.61	
10 PERCENT EXCEEDS	456		624		537	
50 PERCENT EXCEEDS	120		160		109	
90 PERCENT EXCEEDS	12		60		16	

- a From rating curve extended above 9,200 ft³/s on basis of slope-area measurement of peak flow.
- b From floodmark in gage.

