

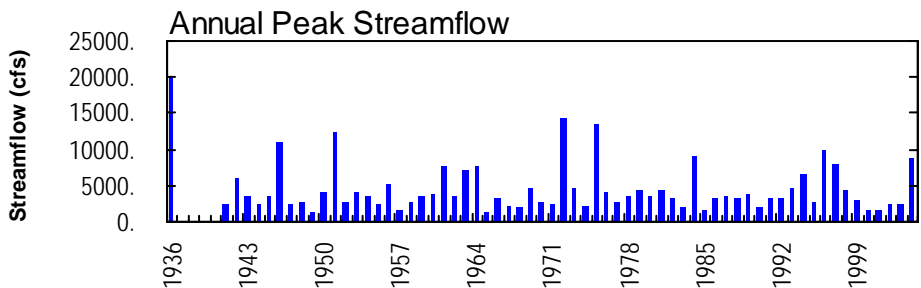
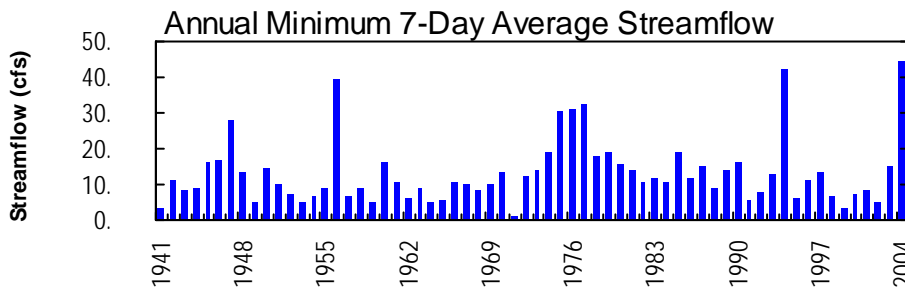
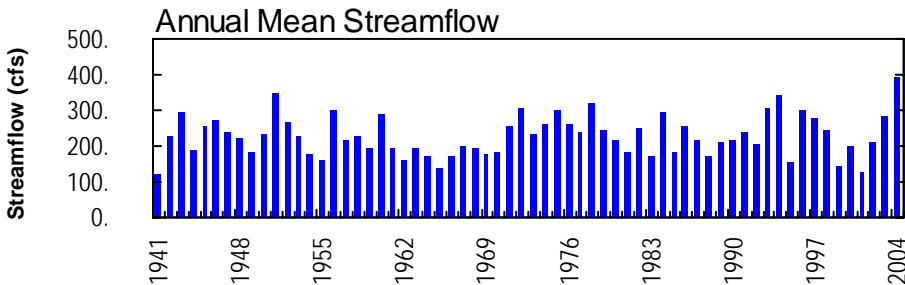
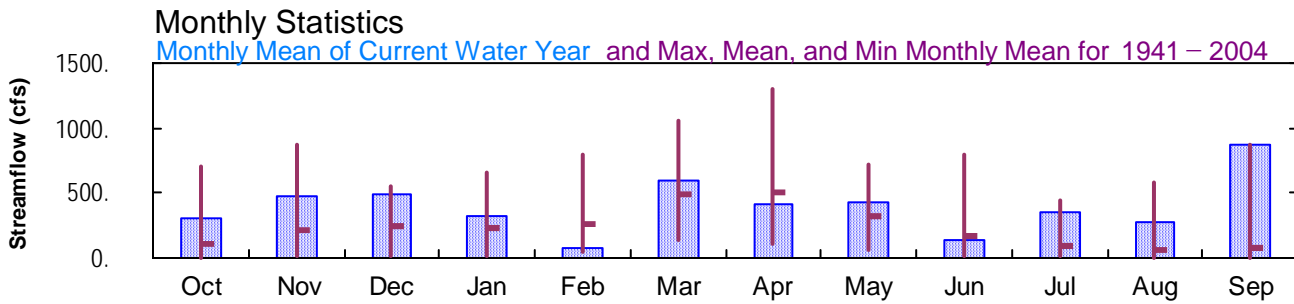
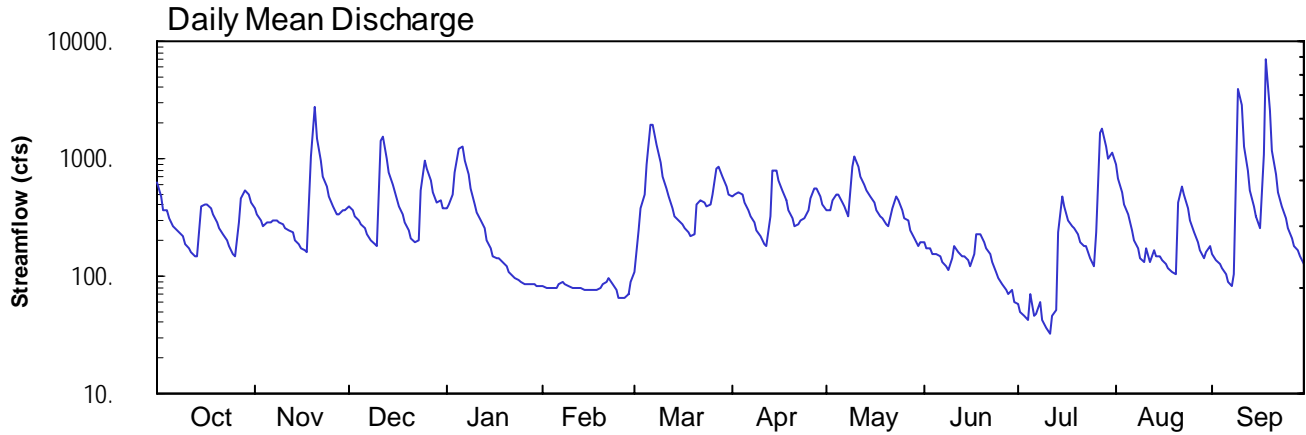


2004 Water Year  
WEST BRANCH SUSQUEHANNA RIVER BASIN  
01544500 Kettle Creek at Cross Fork, PA

Latitude: 41° 28' 33"  
Clinton County

Longitude: 077° 49' 34"  
Datum: 1027.12 feet

Hydrologic Unit Code: 02050203  
Drainage Area: 136. mi<sup>2</sup>



**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)
Nov. 20	0130	3,410	6.02	Sept. 9	1415	6,290	8.03
Mar. 6	1845	2,470	5.17	Sept. 18	0730	*8,880	*9.45

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	623	383	389	380	e82	e110	478	366	197	59	879	153
2	476	336	369	415	e80	e250	503	362	170	50	683	139
3	368	298	326	495	e80	e380	524	449	176	45	518	127
4	362	265	295	750	e78	e500	495	486	153	43	411	115
5	304	283	274	1220	e78	879	429	488	154	70	330	103
6	269	286	259	1260	e84	1940	365	423	147	45	249	90
7	253	294	227	956	e90	1970	318	385	134	47	205	83
8	236	302	205	726	e85	1320	282	319	120	61	171	105
9	e220	288	185	562	e82	933	247	843	111	42	143	3960
10	e190	271	180	e400	e80	698	215	1030	141	36	129	2850
11	e170	257	1400	e350	e80	562	190	861	177	32	172	1270
12	e160	245	1540	e300	e79	472	179	701	163	46	131	786
13	e150	235	1010	e260	e78	379	325	602	150	51	169	546
14	e150	205	762	e200	e77	319	785	535	145	234	149	397
15	396	186	595	e170	e76	300	793	474	134	474	145	318
16	412	173	464	e150	e75	277	652	418	120	387	137	258
17	407	168	396	e140	e75	258	532	358	152	296	126	1070
18	370	161	332	e140	e75	235	432	323	225	264	115	7010
19	330	1050	283	e130	e80	220	359	311	224	251	107	2560
20	282	2790	244	e120	e85	229	305	271	196	223	105	1170
21	255	1490	213	e110	e90	414	265	269	170	192	416	742
22	229	944	194	e100	e95	437	272	376	155	176	574	523
23	202	691	205	e96	e85	425	294	470	130	181	495	391
24	177	568	538	e93	e75	396	311	445	110	143	381	307
25	155	471	972	e90	e65	404	367	367	96	121	296	253
26	147	386	809	e87	e65	495	462	311	85	234	235	213
27	290	338	641	e87	e65	816	552	294	75	1680	193	180
28	454	337	515	e85	e70	866	555	242	71	1780	164	165
29	544	370	425	e85	e90	713	480	208	76	1270	142	145
30	492	370	433	e82	---	582	409	181	61	1020	160	128
31	429	---	380	e82	---	501	---	191	---	1130	181	---
TOTAL	9502	14441	15060	10121	2299	18280	12375	13359	4218	10683	8311	26157
MEAN	307	481	486	326	79.3	590	412	431	141	345	268	872
MAX	623	2790	1540	1260	95	1970	793	1030	225	1780	879	7010
MIN	147	161	180	82	65	110	179	181	61	32	105	83
CFSM	2.25	3.54	3.57	2.40	0.58	4.34	3.03	3.17	1.03	2.53	1.97	6.41
IN.	2.60	3.95	4.12	2.77	0.63	5.00	3.38	3.65	1.15	2.92	2.27	7.15

**STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1941 - 2004, BY WATER YEAR (WY)**

MEAN	109	214	248	223	254	483	500	320	167	88.2	65.1	80.0
MAX	700	868	552	663	800	1055	1303	721	797	436	581	872
(WY)	1991	1951	1973	1952	1981	1945	1993	1946	1972	1992	1994	2004
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 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1941 - 2004	
ANNUAL TOTAL	130783		144806			
ANNUAL MEAN	358		396		229	
HIGHEST ANNUAL MEAN					396	
LOWEST ANNUAL MEAN					125	
HIGHEST DAILY MEAN	2790	Nov 20	7010	Sep 18	10500	Jun 23 1972
LOWEST DAILY MEAN	34	Jul 17	32	Jul 11	1.2	Sep 2-4 1971
ANNUAL SEVEN-DAY MINIMUM	46	Jul 12	44	Jul 6	1.4	Sep 1 1971
MAXIMUM PEAK FLOW			8880	Sep 18	<b>a</b> 14300	Jun 23 1972
MAXIMUM PEAK STAGE			9.45	Sep 18	<b>b</b> 11.76	Jun 23 1972
ANNUAL RUNOFF (CFSM)	2.63		2.91		1.68	
ANNUAL RUNOFF (INCHES)	35.77		39.61		22.88	
10 PERCENT EXCEEDS	741		788		541	
50 PERCENT EXCEEDS	246		265		110	
90 PERCENT EXCEEDS	80		81		17	

- 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.