



2005 Water Year
WEST BRANCH SUSQUEHANNA RIVER BASIN
01544500 Kettle Creek at Cross Fork, PA

Latitude: 41° 28 ' 33"

Longitude: 077° 49 ' 34"

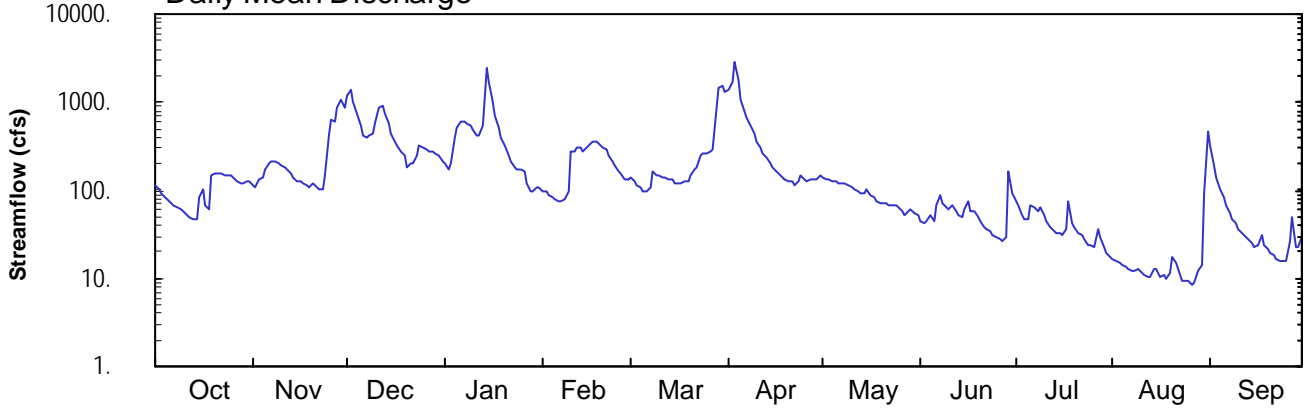
Hydrologic Unit Code: 02050203

Clinton County

Datum: 1027.12 feet

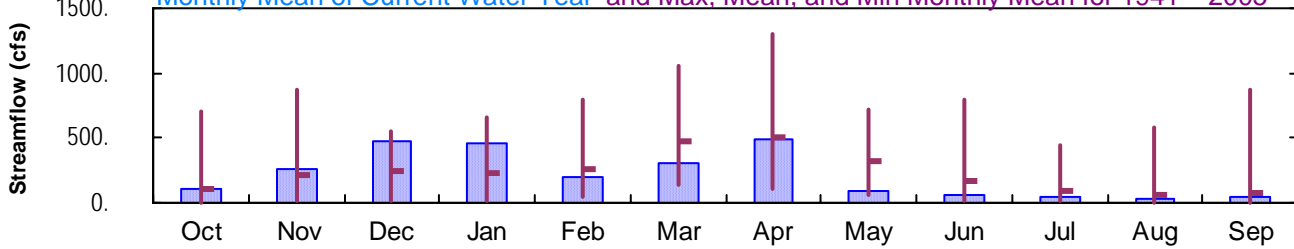
Drainage Area: 136. mi²

Daily Mean Discharge

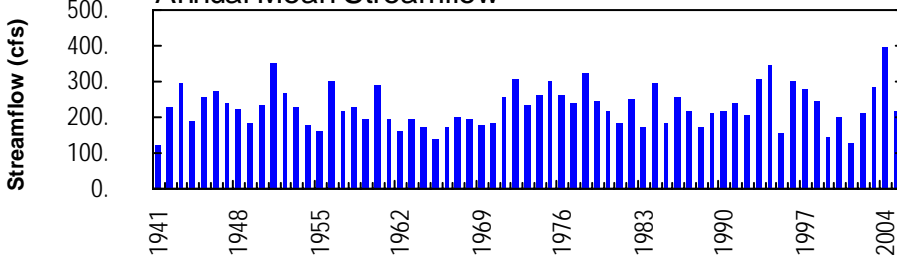


Monthly Statistics

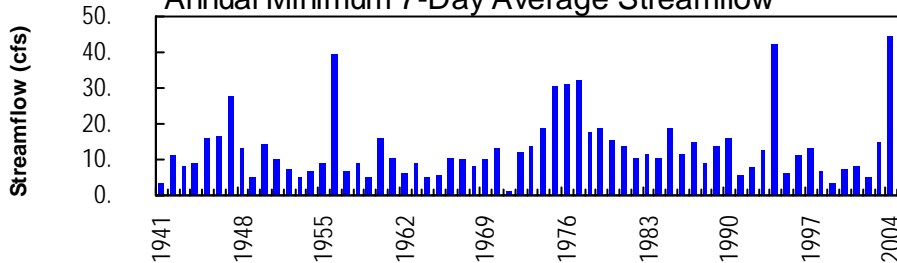
Monthly Mean of Current Water Year and Max, Mean, and Min Monthly Mean for 1941 – 2005



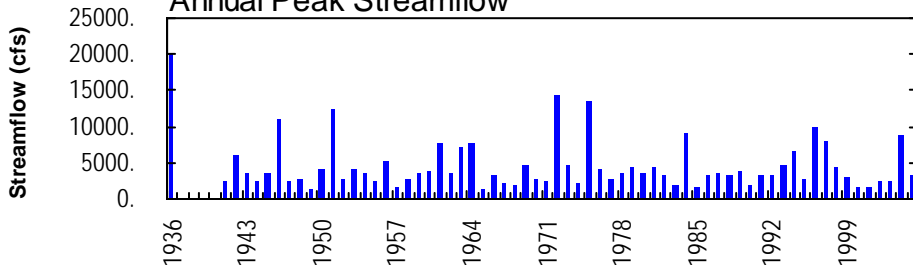
Annual Mean Streamflow



Annual Minimum 7-Day Average Streamflow



Annual Peak Streamflow



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)
Jan. 14	1600	3,100	5.76	Apr. 3	0600	*3,280	*5.91

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	113	112	1170	199	e100	139	1360	142	46	74	16	316
2	103	108	1390	175	e100	125	1740	137	41	68	16	196
3	94	133	1030	198	e90	113	2830	134	44	53	15	138
4	85	138	728	403	e85	e110	1780	130	51	46	14	105
5	80	175	545	504	e80	e100	1090	124	44	47	14	82
6	73	197	426	589	e75	e100	801	123	68	69	13	66
7	68	217	399	593	e75	106	664	122	90	64	12	55
8	63	215	421	571	e80	163	553	119	71	57	12	47
9	60	202	444	533	e100	e150	444	113	66	64	13	42
10	57	187	583	476	e270	e150	364	108	62	52	12	37
11	53	178	854	412	e280	e140	306	105	69	44	11	32
12	50	173	893	408	e300	e140	262	98	57	39	11	29
13	48	153	743	554	305	e130	233	92	52	36	10	28
14	47	138	569	2390	281	e130	205	93	48	33	13	25
15	81	130	443	1720	305	e120	182	104	62	32	13	23
16	102	124	365	1030	335	e120	165	89	75	31	11	23
17	69	119	315	721	361	e120	153	82	59	36	11	30
18	60	116	269	521	364	128	144	77	57	74	9.8	24
19	146	109	245	e400	332	129	135	72	49	43	12	21
20	155	119	184	e320	300	147	128	71	44	38	17	20
21	154	112	199	e250	285	171	129	70	39	32	15	19
22	154	104	199	e210	243	186	117	67	37	31	11	17
23	148	103	253	e180	213	243	129	66	34	28	9.5	16
24	149	149	e330	e170	189	265	149	69	30	24	9.5	16
25	144	415	e300	e170	e160	267	135	65	29	24	9.3	16
26	137	631	e290	e160	156	278	128	58	28	23	8.6	26
27	129	600	e280	e120	e130	294	130	53	27	37	8.8	48
28	122	856	e270	e100	137	845	132	57	29	30	12	23
29	119	1090	e260	e100	---	1490	133	60	166	23	14	23
30	125	871	243	e110	---	1550	145	55	93	20	91	29
31	124	---	217	e110	---	1310	---	52	---	18	467	---
TOTAL	3112	7974	14857	14397	5731	9459	14866	2807	1667	1290	911.5	1572
MEAN	100	266	479	464	205	305	496	90.5	55.6	41.6	29.4	52.4
MAX	155	1090	1390	2390	364	1550	2830	142	166	74	467	316
MIN	47	103	184	100	75	100	117	52	27	18	8.6	16
CFSM	0.74	1.95	3.52	3.41	1.50	2.24	3.64	0.67	0.41	0.31	0.22	0.39
IN.	0.85	2.18	4.06	3.94	1.57	2.59	4.07	0.77	0.46	0.35	0.25	0.43

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1941 - 2005, BY WATER YEAR (WY)

MEAN	109	214	252	227	253	480	500	317	165	87.5	64.6	79.6
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 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1941 - 2005	
ANNUAL TOTAL	131746		78643.5			
ANNUAL MEAN	360		215		229	
HIGHEST ANNUAL MEAN					396	2004
LOWEST ANNUAL MEAN					125	1941
HIGHEST DAILY MEAN	7010	Sep 18	2830	Apr 3	10500	Jun 23 1972
LOWEST DAILY MEAN	32	Jul 11	8.6	Aug 26	1.2	Sep 2-4 1971
ANNUAL SEVEN-DAY MINIMUM	44	Jul 6	9.8	Aug 22	1.4	Sep 1 1971
MAXIMUM PEAK FLOW			3280	Apr 3	a 14300	Jun 23 1972
MAXIMUM PEAK STAGE			5.91	Apr 3	b 11.76	Jun 23 1972
ANNUAL RUNOFF (CFSM)	2.65		1.58		1.68	
ANNUAL RUNOFF (INCHES)	36.04		21.51		22.86	
10 PERCENT EXCEEDS	785		526		541	
50 PERCENT EXCEEDS	201		116		110	
90 PERCENT EXCEEDS	76		20		17	

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

b From floodmark in gage.

