

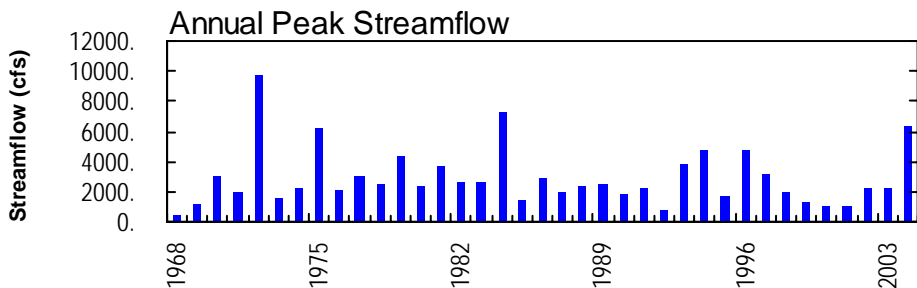
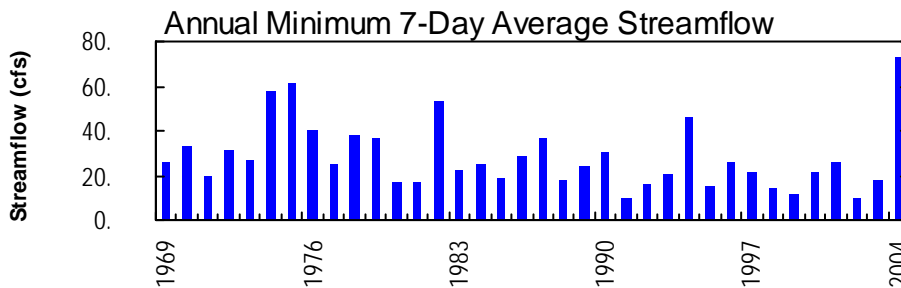
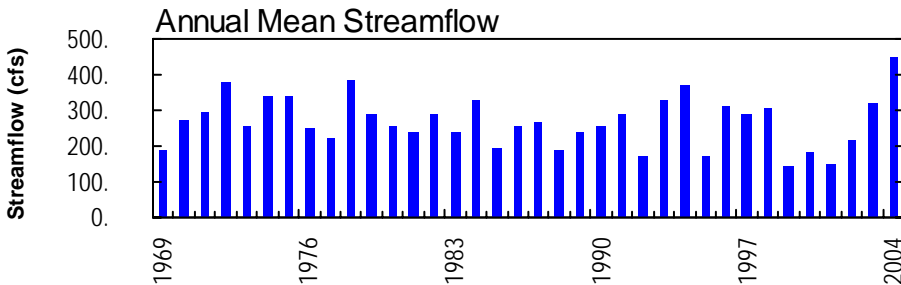
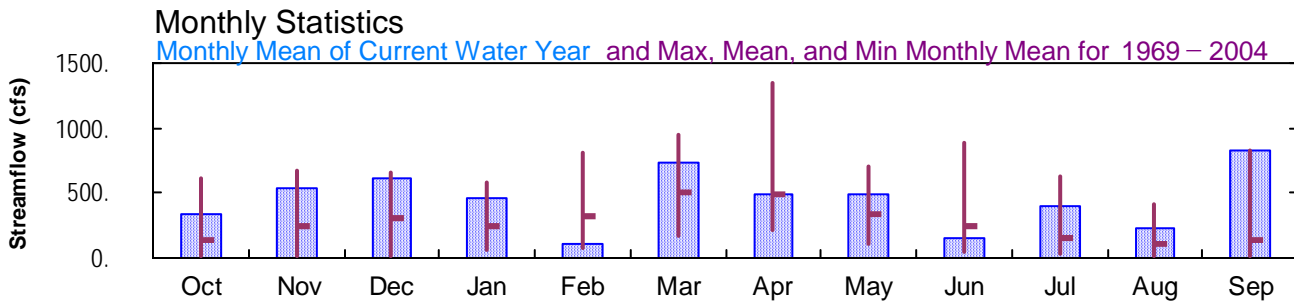
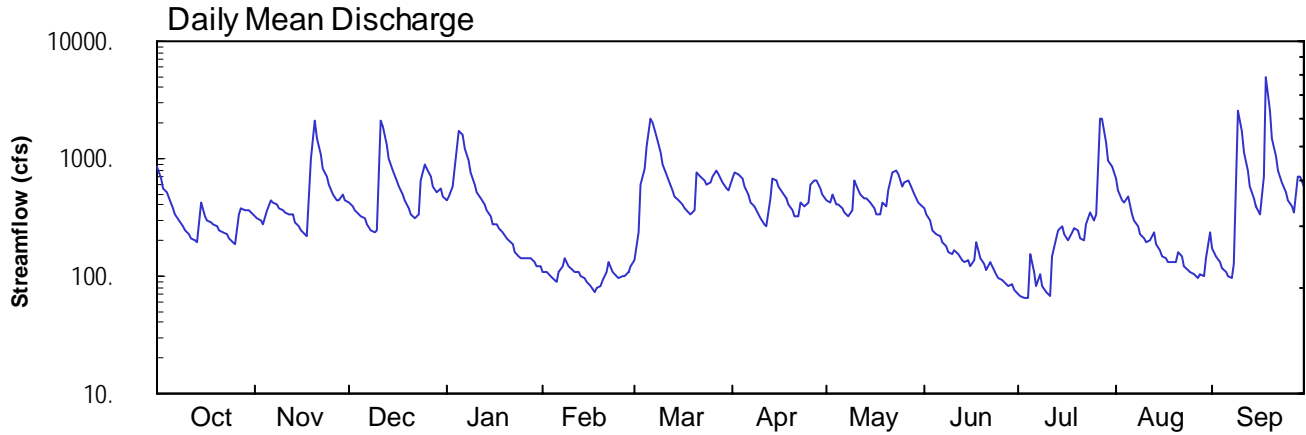


2004 Water Year
WEST BRANCH SUSQUEHANNA RIVER BASIN
01547950 Beech Creek at Monument, PA

Latitude: 41°06'42"
Centre County

Longitude: 077°42'09"
Datum: 741.60 feet

Hydrologic Unit Code: 02050204
Drainage Area: 152. mi²



WEST BRANCH SUSQUEHANNA RIVER BASIN

01547950 BEECH CREEK AT MONUMENT, PA

LOCATION.--Lat 41°06'42", long 77°42'09", Centre County, Hydrologic Unit 02050204, on right bank 800 ft downstream from bridge at Monument, 850 ft downstream from Monument Run, 0.6 mi upstream from Twin Run, and 8.7 mi upstream from mouth.

DRAINAGE AREA.--152 mi².

PERIOD OF RECORD.--October 1968 to current year.

GAGE.--Water-stage recorder. Datum of gage is 741.60 ft above National Geodetic Vertical Datum of 1929.

REMARKS.--Records fair except those for estimated daily discharges, which are poor. Several measurements of water temperature were made during the year. Satellite telemetry at station.

PEAK DISCHARGES FOR CURRENT YEAR.--Peak discharges greater than a base discharge of 1,500 ft³/s and maximum (*):

Date	Time	Discharge ft ³ /s	Gage Height (ft)	Date	Time	Discharge ft ³ /s	Gage Height (ft)
Nov. 19	2300	2,420	9.46	July 27	1730	2,880	9.97
Dec. 11	1430	2,680	9.75	Sept. 9	1030	3,450	10.55
Jan. 5	1615	1,860	8.78	Sept. 18	0830	*6,310	*12.96
Mar. 6	1745	2,490	9.54				

**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	865	329	428	435	e110	138	668	433	380	71	689	173
2	683	310	397	476	e110	239	761	430	330	68	538	147
3	556	294	362	570	e99	591	735	499	294	65	448	130
4	514	277	333	829	e97	837	680	412	246	65	423	117
5	453	369	319	1740	e89	1260	576	404	231	155	475	107
6	378	447	312	1630	e110	2210	489	377	215	107	342	100
7	333	421	281	1230	e120	2020	431	350	196	83	297	95
8	297	407	e250	956	e140	1550	393	318	177	104	261	127
9	269	379	240	763	e120	1140	362	358	161	83	229	2540
10	246	356	242	607	e110	881	311	655	156	74	207	1750
11	225	342	2060	e510	e110	728	279	532	163	68	192	1120
12	211	338	1860	460	e110	640	266	494	151	147	199	798
13	199	330	1290	408	e99	539	450	459	135	209	236	590
14	196	291	1010	359	e95	473	670	452	132	250	187	459
15	431	264	806	327	e89	436	644	431	137	262	165	387
16	317	243	648	279	e82	411	586	374	120	227	150	332
17	298	229	573	273	e72	384	519	332	137	201	141	696
18	289	216	499	e260	e78	351	454	333	195	232	133	5040
19	279	988	435	e240	e82	340	401	416	143	258	130	2530
20	260	2070	384	e210	e93	365	369	396	125	241	134	1500
21	249	1460	340	e200	e110	769	328	531	114	213	161	1050
22	239	1070	312	e190	e130	707	320	760	130	200	145	794
23	224	830	332	e160	e110	644	419	806	121	277	124	631
24	208	696	645	e150	e99	599	391	732	103	346	114	521
25	191	605	885	e140	e97	634	428	589	95	297	108	448
26	185	500	813	e140	e99	702	599	631	92	336	102	392
27	334	438	691	e140	e100	779	655	658	85	2200	97	348
28	378	438	585	e140	e110	731	640	591	84	2170	104	706
29	368	497	514	e130	e120	636	560	502	84	1390	99	692
30	364	444	546	e120	---	563	488	424	76	979	140	584
31	343	---	474	e120	---	529	---	400	---	842	240	---
TOTAL	10382	15878	18866	14192	2990	22826	14872	15079	4808	12220	7010	24904
MEAN	335	529	609	458	103	736	496	486	160	394	226	830
MAX	865	2070	2060	1740	140	2210	761	806	380	2200	689	5040
MIN	185	216	240	120	72	138	266	318	76	65	97	95
CFSM	2.20	3.48	4.00	3.01	0.68	4.84	3.26	3.20	1.05	2.59	1.49	5.46
IN.	2.54	3.89	4.62	3.47	0.73	5.59	3.64	3.69	1.18	2.99	1.72	6.09

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1969 - 2004, BY WATER YEAR (WY)

MEAN	143	250	304	250	319	498	495	336	252	153	101	133
MAX	620	673	656	585	809	949	1353	709	895	621	411	830
(WY)	1991	1971	1997	1979	1981	1979	1993	1978	1972	1972	2003	2004
MIN	21.0	17.3	19.3	54.9	73.8	167	213	112	48.0	27.8	17.8	16.0
(WY)	1999	1999	1999	1981	1980	1969	1988	1976	1991	1991	1991	1998

e Estimated.

WEST BRANCH SUSQUEHANNA RIVER BASIN

01547950 BEECH CREEK AT MONUMENT, PA--Continued

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1969 - 2004	
ANNUAL TOTAL	150499		164027			
ANNUAL MEAN	412		448		269	
HIGHEST ANNUAL MEAN					448	
LOWEST ANNUAL MEAN					147	
HIGHEST DAILY MEAN	2090	Mar 21	5040	Sep 18	7490	Jun 23 1972
LOWEST DAILY MEAN	53	Jul 21	65	Jul 3,4	8.3	Sep 9 1991
ANNUAL SEVEN-DAY MINIMUM	61	Jul 15	73	Jun 28	a9.8	Sep 8 2002
MAXIMUM PEAK FLOW			b6310	Sep 18	b9740	Jun 23 1972
MAXIMUM PEAK STAGE			12.96	Sep 18	15.22	Jun 23 1972
ANNUAL RUNOFF (CFSM)	2.71		2.95		1.77	
ANNUAL RUNOFF (INCHES)	36.83		40.14		24.04	
10 PERCENT EXCEEDS	808		808		592	
50 PERCENT EXCEEDS	325		337		165	
90 PERCENT EXCEEDS	104		104		36	

a Computed using estimated daily discharges.

b From rating curve extended above 2,000 ft³/s on basis of slope-area measurement of peak flow.