

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 sea level.

REMARKS.--Records good 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)
Jan. 24	1315	Ice jam	*8.30	(No peaks above base discharge.)			
Mar. 4	0400	*1,270	8.03				

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	13	16	16	e14	226	214	542	283	66	61	21	e13
2	12	16	16	e13	290	194	524	260	66	125	20	e12
3	13	15	15	e17	331	245	476	240	75	72	17	e12
4	20	15	15	e23	360	1070	453	224	67	54	16	e11
5	21	15	15	e28	391	868	428	210	60	47	16	e10
6	17	15	15	e33	380	749	376	197	57	42	16	e13
7	16	15	15	e50	375	616	359	188	54	44	15	42
8	55	15	16	e41	346	497	334	187	52	37	19	38
9	60	15	16	e36	304	436	421	186	49	35	23	25
10	42	19	16	e39	299	393	711	165	48	48	18	19
11	30	32	15	e37	288	350	797	149	50	41	17	17
12	24	28	15	e35	311	314	978	139	48	33	16	16
13	21	22	14	e43	377	287	916	135	44	30	16	16
14	20	19	13	e74	365	272	797	130	44	29	34	19
15	19	18	12	e120	348	260	670	123	47	28	25	22
16	18	17	14	e140	334	252	589	117	43	27	19	32
17	18	17	18	e120	340	274	517	113	51	26	16	57
18	17	16	15	e130	348	447	440	108	55	26	15	31
19	17	16	15	e160	339	507	386	105	44	26	e13	23
20	17	16	15	e220	328	515	374	101	40	36	18	20
21	17	17	17	e200	303	547	348	96	38	28	31	23
22	17	17	63	e200	273	567	360	92	36	27	22	22
23	16	16	53	e230	246	509	375	110	35	27	18	19
24	16	15	38	e800	227	494	426	105	33	25	16	18
25	16	15	e20	776	211	495	422	109	32	25	16	16
26	16	16	e20	528	197	483	427	98	30	24	18	16
27	16	17	e19	392	185	484	415	90	31	23	19	15
28	17	17	e18	328	199	502	376	83	75	21	17	16
29	17	16	e18	322	---	535	339	78	103	20	15	19
30	17	16	e16	284	---	548	307	73	81	19	14	141
31	16	---	e15	250	---	537	---	68	---	19	e13	---
TOTAL	651	519	598	5683	8521	14461	14883	4362	1554	1125	569	753
MEAN	21.0	17.3	19.3	183	304	466	496	141	51.8	36.3	18.4	25.1
MAX	60	32	63	800	391	1070	978	283	103	125	34	141
MIN	12	15	12	13	185	194	307	68	30	19	13	10
CFSM	.14	.11	.13	1.21	2.00	3.07	3.26	.93	.34	.24	.12	.17
IN.	.16	.13	.15	1.39	2.09	3.54	3.64	1.07	.38	.28	.14	.18

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1969 - 1999, BY WATER YEAR (WY)

MEAN	149	262	308	256	339	493	504	329	248	156	93.0	106
MAX	620	673	656	585	809	949	1353	709	895	621	410	509
(WY)	1991	1971	1997	1979	1981	1979	1993	1978	1972	1972	1994	1975
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

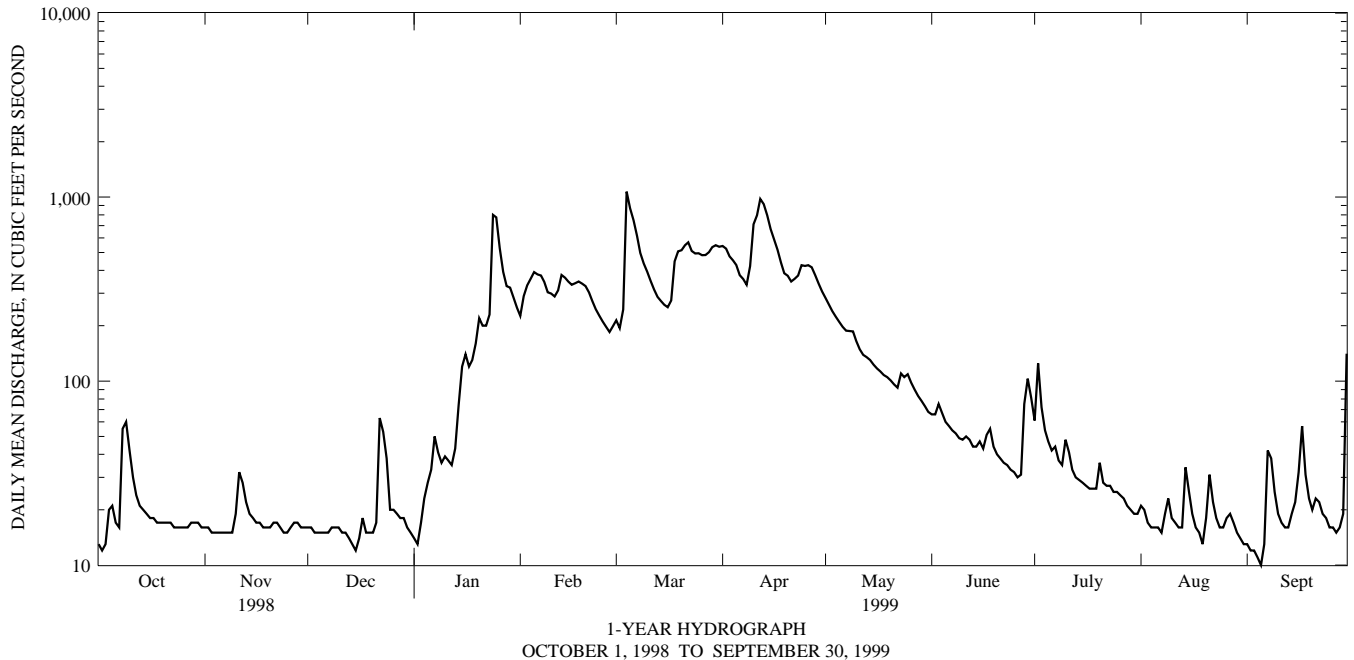
e Estimated.

WEST BRANCH SUSQUEHANNA RIVER BASIN

01547950 BEECH CREEK AT MONUMENT, PA--Continued

SUMMARY STATISTICS	FOR 1998 CALENDAR YEAR		FOR 1999 WATER YEAR		WATER YEARS 1969 - 1999	
ANNUAL TOTAL	94440		53679			
ANNUAL MEAN	259		147		270	
HIGHEST ANNUAL MEAN					385	1978
LOWEST ANNUAL MEAN					147	1999
HIGHEST DAILY MEAN	1920	Jan 9	1070	Mar 4	7490	Jun 23 1972
LOWEST DAILY MEAN	12	Oct 2 ^a	^e 10	Sep 5	8.3	Sep 9 1991
ANNUAL SEVEN-DAY MINIMUM	14	Sep 27	^b 12	Aug 31	9.9	Aug 29 1991
INSTANTANEOUS PEAK FLOW			^d 1270	Mar 4	^c 9740	Jun 23 1972
INSTANTANEOUS PEAK STAGE			^f 8.30	Jan 24	15.22	Jun 23 1972
ANNUAL RUNOFF (CFSM)	1.70		.97		1.77	
ANNUAL RUNOFF (INCHES)	23.11		13.14		24.09	
10 PERCENT EXCEEDS	794		431		593	
50 PERCENT EXCEEDS	70		38		167	
90 PERCENT EXCEEDS	15		15		37	

- a** Also Dec. 15.
- b** Computed using estimated daily discharges.
- c** From rating curve extended above 2,000 ft³/s on basis of slope-area measurement of peak flow.
- d** Corresponding gage height of 8.03 ft.
- e** Estimated.
- f** Result of ice jam.



1-YEAR HYDROGRAPH
OCTOBER 1, 1998 TO SEPTEMBER 30, 1999