

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)
May 13	2345	*2,250	*9.26	June 7	0115	1,600	8.45

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	53	76	338	e120	368	132	585	429	264	109	34	16
2	49	72	308	e110	414	126	492	488	232	102	31	16
3	46	70	275	114	425	201	430	453	211	95	29	16
4	42	67	242	129	415	184	370	415	200	89	28	15
5	40	63	214	e120	361	169	327	391	253	83	27	14
6	38	60	194	117	319	e170	298	362	707	76	31	e13
7	37	58	178	120	288	171	271	338	1420	73	27	e12
8	35	56	165	107	263	169	251	303	1050	69	25	e11
9	34	54	162	e100	234	165	238	677	780	70	24	e10
10	33	52	152	110	234	171	221	791	590	77	22	e9.7
11	34	51	141	121	387	161	199	726	466	64	21	e9.6
12	32	49	134	118	335	154	186	1050	390	59	23	e9.5
13	32	47	153	114	335	153	186	2030	334	57	19	e9.5
14	39	46	184	108	316	150	209	2040	382	54	18	e9.4
15	111	45	224	106	300	146	376	1570	672	52	19	e11
16	75	45	215	103	287	195	327	1180	675	49	34	26
17	94	44	252	101	270	191	319	953	582	46	23	21
18	78	42	453	99	239	188	308	1030	491	44	22	16
19	69	41	473	92	215	203	295	882	407	50	19	14
20	65	42	452	e94	204	299	278	799	340	49	19	14
21	61	41	394	99	205	453	261	687	290	43	17	e13
22	59	41	336	98	192	469	251	574	252	40	16	e15
23	60	40	299	94	175	452	229	490	221	44	19	38
24	146	39	284	115	161	413	207	427	205	51	30	25
25	142	163	249	162	152	374	208	372	183	40	29	18
26	125	233	221	161	151	668	198	326	163	40	23	18
27	117	165	203	170	151	1270	181	286	155	50	19	64
28	105	152	189	184	143	1080	275	266	153	52	17	79
29	95	195	175	195	---	916	446	258	133	42	18	37
30	88	233	155	233	---	783	445	235	120	39	18	26
31	82	---	e130	269	---	654	---	283	---	35	17	---
TOTAL	2116	2382	7544	3983	7539	11030	8867	21111	12321	1843	718	605.7
MEAN	68.26	79.40	243.4	128.5	269.2	355.8	295.6	681.0	410.7	59.45	23.16	20.19
MAX	146	233	473	269	425	1270	585	2040	1420	109	34	79
MIN	32	39	130	92	143	126	181	235	120	35	16	9.4
CFSM	0.45	0.52	1.60	0.85	1.77	2.34	1.94	4.48	2.70	0.39	0.15	0.13
IN.	0.52	0.58	1.85	0.97	1.85	2.70	2.17	5.17	3.02	0.45	0.18	0.15

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1969 - 2002, BY WATER YEAR (WY)

MEAN	139.8	244.9	296.9	242.4	331.0	484.9	497.3	330.5	249.2	147.6	88.17	99.13
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.

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01547950 BEECH CREEK AT MONUMENT, PA--Continued

SUMMARY STATISTICS	FOR 2001 CALENDAR YEAR		FOR 2002 WATER YEAR		WATER YEARS 1969 - 2002	
ANNUAL TOTAL	60004		80059.7			
ANNUAL MEAN	164		219		262	
HIGHEST ANNUAL MEAN					385	1978
LOWEST ANNUAL MEAN					147	1999
HIGHEST DAILY MEAN	1040	Mar 22	2040	May 14	7490	Jun 23 1972
LOWEST DAILY MEAN	22	Aug 9	e 9.4	Sep 14	8.3	Sep 9 1991
ANNUAL SEVEN-DAY MINIMUM	26	Aug 3	a 9.8	Sep 8	a 9.8	Sep 8 2002
MAXIMUM PEAK FLOW			b 2250	May 13	b 9740	Jun 23 1972
MAXIMUM PEAK STAGE			9.26	May 13	15.22	Jun 23 1972
ANNUAL RUNOFF (CFSM)	1.08		1.44		1.72	
ANNUAL RUNOFF (INCHES)	14.69		19.59		23.42	
10 PERCENT EXCEEDS	439		458		578	
50 PERCENT EXCEEDS	95		151		161	
90 PERCENT EXCEEDS	32		21		35	

- 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.
- e** Estimated.

