

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 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)
Apr. 23	1515	*1,060	*7.75	(No peaks above base discharge.)			

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	69	22	171	124	e86	723	243	342	177	171	52	33
2	42	27	150	118	e81	641	229	327	166	155	67	32
3	33	57	134	118	e78	536	232	282	159	146	51	31
4	55	46	126	149	e84	468	475	256	141	143	48	30
5	58	35	116	163	e80	417	479	242	146	126	44	27
6	42	31	113	138	e74	365	473	223	193	114	51	26
7	34	28	108	132	e70	326	444	207	158	105	154	25
8	29	27	96	131	e64	297	446	194	133	96	178	25
9	31	26	89	131	e76	276	488	183	119	89	90	25
10	45	27	86	142	99	255	437	176	110	92	68	25
11	56	26	84	164	97	258	415	170	105	85	60	26
12	42	25	79	153	94	309	402	160	141	78	69	30
13	36	23	78	148	82	265	368	155	156	74	58	50
14	47	23	177	125	149	251	340	148	586	71	52	36
15	47	23	407	128	204	244	318	136	481	74	48	30
16	40	21	371	144	186	254	294	128	480	92	54	29
17	35	21	343	e100	191	423	399	122	416	84	44	27
18	34	21	308	e110	184	397	812	117	384	75	43	25
19	32	21	276	e130	193	405	1000	154	369	65	43	25
20	31	22	261	e120	177	396	914	160	302	64	39	25
21	30	22	263	e98	163	457	905	144	309	59	36	24
22	29	22	235	e92	154	577	969	133	423	57	35	23
23	28	22	215	e97	183	564	1050	141	352	54	39	23
24	27	22	199	e110	264	552	979	355	315	51	46	34
25	27	30	183	e100	474	518	837	371	280	50	38	34
26	25	265	190	e94	690	469	698	340	261	47	34	35
27	24	495	180	e90	732	422	587	304	302	46	33	36
28	24	314	161	e88	910	387	509	276	260	45	38	29
29	23	250	154	e84	800	348	442	247	222	50	36	26
30	23	204	145	e88	---	309	387	218	197	53	34	25
31	22	---	134	e92	---	271	---	192	---	55	33	---
TOTAL	1120	2198	5632	3701	6719	12380	16571	6603	7843	2566	1715	871
MEAN	36.1	73.3	182	119	232	399	552	213	261	82.8	55.3	29.0
MAX	69	495	407	164	910	723	1050	371	586	171	178	50
MIN	22	21	78	84	64	244	229	117	105	45	33	23
CFSM	.24	.48	1.20	.79	1.52	2.63	3.63	1.40	1.72	.54	.36	.19
IN.	.27	.54	1.38	.91	1.64	3.03	4.06	1.62	1.92	.63	.42	.21

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1969 - 2000, BY WATER YEAR (WY)

MEAN	145	256	304	251	335	490	506	326	249	153	91.8	103
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 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1969 - 2000	
ANNUAL TOTAL	60861		67919			
ANNUAL MEAN	167		186		267	
HIGHEST ANNUAL MEAN					385	1978
LOWEST ANNUAL MEAN					147	1999
HIGHEST DAILY MEAN	1070	Mar 4	1050	Apr 23	7490	Jun 23 1972
LOWEST DAILY MEAN	e10	Sep 5	21	Nov 16-19	8.3	Sep 9 1991
ANNUAL SEVEN-DAY MINIMUM	a12	Aug 31	21	Nov 16	9.9	Aug 29 1991
INSTANTANEOUS PEAK FLOW			1060	Apr 23	b9740	Jun 23 1972
INSTANTANEOUS PEAK STAGE			7.75	Apr 23	15.22	Jun 23 1972
ANNUAL RUNOFF (CFSM)	1.10		1.22		1.76	
ANNUAL RUNOFF (INCHES)	14.89		16.62		23.86	
10 PERCENT EXCEEDS	438		443		587	
50 PERCENT EXCEEDS	67		121		165	
90 PERCENT EXCEEDS	18		27		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.
- e Estimated.

