

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)
Mar. 22	0400	*1,060	*7.75				
(No peaks above base discharge.)							

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	24	33	98	e90	140	211	453	221	140	83	30	96
2	24	33	90	e86	119	208	449	208	161	88	28	54
3	24	33	68	e82	105	204	432	195	171	70	27	43
4	23	32	e64	e80	116	198	415	181	151	68	29	38
5	38	31	e80	e83	111	197	388	172	139	68	28	36
6	96	31	e72	e78	112	182	421	160	130	64	26	32
7	60	31	e70	e72	114	174	461	149	127	59	24	30
8	41	30	e70	e75	109	168	472	143	119	57	23	29
9	35	33	e68	e70	123	169	459	141	112	56	22	28
10	33	83	e62	e66	295	158	461	133	107	54	34	27
11	32	86	99	e70	318	153	439	127	104	63	42	28
12	30	64	104	e70	307	147	420	130	99	53	29	26
13	28	57	81	e68	300	269	388	124	92	48	27	26
14	27	53	107	89	304	439	350	115	86	47	26	43
15	26	51	111	82	432	448	325	113	80	45	23	36
16	27	49	105	82	469	460	574	107	92	43	24	29
17	31	48	217	79	491	562	637	102	93	44	76	26
18	136	46	254	75	439	602	640	101	77	43	45	25
19	95	45	234	76	396	610	574	99	71	40	36	25
20	64	44	e200	75	369	594	515	93	67	38	91	32
21	54	43	e160	64	345	669	537	92	75	36	51	43
22	49	e38	e140	60	296	1040	472	96	95	35	37	32
23	44	e31	e130	e60	277	997	441	153	173	34	33	28
24	42	e38	e130	e66	242	907	421	115	163	33	36	67
25	41	37	e120	e62	245	790	383	103	121	32	32	210
26	40	100	e120	57	259	675	345	163	105	33	29	122
27	39	141	e110	71	231	568	318	156	93	33	41	92
28	39	111	e110	61	218	489	288	181	85	30	35	80
29	37	102	e100	50	---	429	259	163	79	29	35	72
30	35	104	e95	82	---	498	236	150	76	31	30	63
31	35	---	e92	128	---	468	---	140	---	33	49	---
TOTAL	1349	1658	3561	2309	7282	13683	12973	4326	3283	1490	1098	1518
MEAN	43.5	55.3	115	74.5	260	441	432	140	109	48.1	35.4	50.6
MAX	136	141	254	128	491	1040	640	221	173	88	91	210
MIN	23	30	62	50	105	147	236	92	67	29	22	25
CFSM	.29	.36	.76	.49	1.71	2.90	2.84	.92	.72	.32	.23	.33
IN.	.33	.41	.87	.57	1.78	3.35	3.17	1.06	.80	.36	.27	.37

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1969 - 2001, BY WATER YEAR (WY)

MEAN	142	250	299	246	333	489	503	320	244	150	90.1	102
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 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1969 - 2001	
ANNUAL TOTAL	65537		54530			
ANNUAL MEAN	179		149		263	
HIGHEST ANNUAL MEAN					385	1978
LOWEST ANNUAL MEAN					147	1999
HIGHEST DAILY MEAN	1050	Apr 23	1040	Mar 22	7490	Jun 23 1972
LOWEST DAILY MEAN	23	Sep 22, 23 ^a	22	Aug 9	8.3	Sep 9 1991
ANNUAL SEVEN-DAY MINIMUM	25	Sep 17	26	Aug 3	9.9	Aug 29 1991
MAXIMUM PEAK FLOW			1060	Mar 22	^b 9740	Jun 23 1972
MAXIMUM PEAK STAGE			7.75	Mar 22	15.22	Jun 23 1972
ANNUAL RUNOFF (CFSM)	1.18		.98		1.73	
ANNUAL RUNOFF (INCHES)	16.04		13.35		23.54	
10 PERCENT EXCEEDS	438		432		580	
50 PERCENT EXCEEDS	105		86		161	
90 PERCENT EXCEEDS	31		30		36	

^a Also Oct. 4.

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

