

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)
Mar. 21	0000	*2,220	*9.22	Sept. 28	0645	2,140	9.13

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	22	71	145	424	e110	e200	362	148	848	135	564	140
2	20	73	131	1020	e100	200	385	143	879	124	518	320
3	20	70	e110	898	e100	189	370	138	828	115	767	338
4	21	68	e94	750	e130	184	371	131	812	105	762	1120
5	20	67	e100	604	e120	174	700	144	704	98	746	944
6	18	129	e100	510	e110	184	743	168	617	92	635	709
7	17	136	e94	433	e110	167	736	248	611	111	487	538
8	16	117	e90	392	e110	164	655	313	561	111	413	421
9	16	107	e73	383	e110	211	579	397	515	91	528	340
10	17	100	e76	365	e100	223	543	435	447	88	1060	283
11	27	121	e100	314	e100	224	646	447	401	147	960	241
12	81	122	e140	278	e100	232	714	430	413	102	867	210
13	57	125	e140	260	e96	323	691	393	405	84	683	207
14	44	117	e220	248	e94	467	609	349	358	74	533	217
15	33	111	316	e220	e92	534	535	316	334	68	424	236
16	45	118	313	e210	e86	755	471	480	295	70	352	350
17	79	238	284	e200	e90	1240	409	508	267	63	336	273
18	55	317	257	e180	e92	1790	357	516	320	60	265	249
19	46	282	243	e170	e94	1870	321	484	286	59	224	523
20	44	261	412	e160	e95	1740	289	435	270	55	195	688
21	39	235	533	e150	e95	2090	271	451	349	53	174	615
22	35	237	523	e140	e100	1870	273	376	349	102	158	536
23	32	227	478	e130	e180	1460	242	337	325	107	143	918
24	31	197	411	e120	e280	1140	217	383	296	74	130	778
25	31	182	384	e120	e260	932	202	360	262	71	119	687
26	93	170	330	e110	e240	798	200	428	232	59	118	567
27	86	165	282	e110	e230	664	188	447	205	70	123	593
28	64	152	254	e100	e220	547	172	505	182	401	105	1940
29	57	146	235	e110	---	483	165	512	161	271	99	1530
30	62	148	213	e110	---	441	155	476	146	215	140	1120
31	64	---	210	e110	---	393	---	534	---	177	119	---
TOTAL	1292	4609	7291	9329	3644	21889	12571	11432	12678	3452	12747	17631
MEAN	41.7	154	235	301	130	706	419	369	423	111	411	588
MAX	93	317	533	1020	280	2090	743	534	879	401	1060	1940
MIN	16	67	73	100	86	164	155	131	146	53	99	140
CFSM	0.27	1.01	1.55	1.98	0.86	4.65	2.76	2.43	2.78	0.73	2.71	3.87
IN.	0.32	1.13	1.78	2.28	0.89	5.36	3.08	2.80	3.10	0.84	3.12	4.31

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1969 - 2003, BY WATER YEAR (WY)

MEAN	137	242	295	244	325	491	495	332	254	147	97.4	113
MAX	620	673	656	585	809	949	1353	709	895	621	411	588
(WY)	1991	1971	1997	1979	1981	1979	1993	1978	1972	1972	2003	2003
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 2002 CALENDAR YEAR		FOR 2003 WATER YEAR		WATER YEARS 1969 - 2003	
ANNUAL TOTAL	81209.7		118565			
ANNUAL MEAN	222		325		264	
HIGHEST ANNUAL MEAN					385	1978
LOWEST ANNUAL MEAN					147	1999
HIGHEST DAILY MEAN	2040	May 14	2090	Mar 21	7490	Jun 23 1972
LOWEST DAILY MEAN	e9.4	Sep 14	16	Oct 8,9	8.3	Sep 9 1991
ANNUAL SEVEN-DAY MINIMUM	a9.8	Sep 8	18	Oct 4	a9.8	Sep 8 2002
MAXIMUM PEAK FLOW			b2220	Mar 21	b9740	Jun 23 1972
MAXIMUM PEAK STAGE			9.22	Mar 21	15.22	Jun 23 1972
ANNUAL RUNOFF (CFSM)	1.46		2.14		1.74	
ANNUAL RUNOFF (INCHES)	19.88		29.02		23.58	
10 PERCENT EXCEEDS	473		702		581	
50 PERCENT EXCEEDS	146		223		162	
90 PERCENT EXCEEDS	19		69		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.

