

WEST BRANCH SUSQUEHANNA RIVER BASIN

01547700 MARSH CREEK AT BLANCHARD, PA

LOCATION.--Lat 41°03'34", long 77°36'22", Centre County, Hydrologic Unit 02050204, on right bank 20 ft downstream from highway bridge on SR 1002, 0.5 mi southwest of Blanchard, 0.6 mi downstream from bridge on State Highway 150, and 0.6 mi upstream from mouth.

DRAINAGE AREA.--44.1 mi².

PERIOD OF RECORD.--October 1955 to current year.

REVISED RECORDS.--WDR PA-72-1: 1971 (runoff in CFSM and inches).

GAGE.--Water-stage recorder. Datum of gage is 586.16 ft above National Geodetic Vertical Datum of 1929. Prior to Aug. 31, 1956, nonrecording gage at site 20 ft upstream at same datum.

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 450 ft³/s and maximum (*):

Date	Time	Discharge ft ³ /s	Gage Height (ft)	Date	Time	Discharge ft ³ /s	Gage Height (ft)
Jan. 1	2300	840	4.30	Aug. 11	1445	*1,540	*5.06
Mar. 20	2045	1,320	4.85	Sept. 4	0200	678	4.06
Aug. 1	1215	1,220	4.75	Sept. 28	0115	1,360	4.89

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	2.4	41	30	264	16	49	76	26	285	26	439	36
2	2.1	44	26	501	17	51	83	26	261	23	202	60
3	2.0	35	20	286	16	47	84	24	219	20	234	94
4	2.3	29	16	191	38	40	89	22	214	17	172	344
5	2.8	25	20	136	33	44	307	26	213	15	127	188
6	2.8	58	23	105	17	50	278	31	185	14	93	120
7	2.3	52	17	85	21	39	213	59	169	17	70	84
8	1.7	44	22	78	16	41	168	96	133	16	56	65
9	1.4	36	14	98	15	82	145	142	117	13	60	53
10	1.6	31	12	99	17	70	130	144	95	13	126	43
11	5.5	42	18	85	14	64	194	135	82	34	382	36
12	52	41	43	73	15	78	243	117	86	16	268	32
13	16	51	55	65	14	203	200	100	75	12	160	36
14	9.4	46	e180	58	14	234	150	86	70	10	107	42
15	6.1	42	233	52	13	241	118	75	67	9.4	78	56
16	22	49	182	46	11	302	95	100	61	12	63	77
17	31	177	129	43	11	466	77	105	56	8.7	77	58
18	16	182	96	27	12	620	66	114	70	7.8	52	52
19	12	130	80	38	14	509	60	107	63	8.0	43	204
20	9.7	98	133	37	14	657	54	91	68	6.5	36	222
21	7.5	76	146	e25	13	785	51	89	120	7.1	32	174
22	5.9	73	142	e23	23	489	52	71	128	35	28	130
23	5.2	61	116	e21	100	329	45	62	108	19	24	261
24	4.8	50	91	e21	77	225	40	78	85	13	20	183
25	4.6	44	82	e20	65	167	36	72	68	12	17	150
26	61	39	68	e19	58	138	37	78	56	9.0	18	112
27	35	39	56	e18	55	112	34	80	48	27	19	197
28	24	34	49	16	52	92	31	110	40	83	14	926
29	18	33	46	18	---	86	31	107	33	32	13	445
30	26	34	40	17	---	83	28	97	30	21	22	241
31	34	---	43	16	---	77	---	123	---	16	15	---
TOTAL	427.1	1736	2228	2581	781	6470	3215	2593	3305	572.5	3067	4721
MEAN	13.8	57.9	71.9	83.3	27.9	209	107	83.6	110	18.5	98.9	157
MAX	61	182	233	501	100	785	307	144	285	83	439	926
MIN	1.4	25	12	16	11	39	28	22	30	6.5	13	32
CFSM	0.31	1.31	1.63	1.89	0.63	4.73	2.43	1.90	2.50	0.42	2.24	3.57
IN.	0.36	1.46	1.88	2.18	0.66	5.46	2.71	2.19	2.79	0.48	2.59	3.98

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1956 - 2003, BY WATER YEAR (WY)

MEAN	26.7	50.1	66.4	55.0	84.3	135	114	72.7	47.8	20.6	17.4	19.4
MAX	154	151	252	193	267	283	337	181	344	170	98.9	157
(WY)	1991	1978	1973	1996	1984	1994	1993	2002	1972	1972	2003	2003
MIN	1.08	1.94	2.06	4.01	14.0	32.5	29.9	20.1	5.37	1.18	0.61	0.25
(WY)	1965	1965	1999	1981	1963	1969	1968	1977	1991	1965	1966	1964

e Estimated.

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01547700 MARSH CREEK AT BLANCHARD, PA--Continued

SUMMARY STATISTICS	FOR 2002 CALENDAR YEAR		FOR 2003 WATER YEAR		WATER YEARS 1956 - 2003	
ANNUAL TOTAL	21258.40		31696.6			
ANNUAL MEAN	58.2		86.8		58.9	
HIGHEST ANNUAL MEAN					102	1972
LOWEST ANNUAL MEAN					28.6	1965
HIGHEST DAILY MEAN	808	May 13	926	Sep 28	3800	Jun 23 1972
LOWEST DAILY MEAN	0.39	Sep 8-10	1.4	Oct 9	0.00	Aug 30 1966
ANNUAL SEVEN-DAY MINIMUM	0.44	Sep 7	2.1	Oct 4	0.07	Aug 27 1966
MAXIMUM PEAK FLOW			1540	Aug 11	^a 6900	Jun 18 1984
MAXIMUM PEAK STAGE			5.06	Aug 11	7.85	Jun 18 1984
ANNUAL RUNOFF (CFSM)	1.32		1.97		1.34	
ANNUAL RUNOFF (INCHES)	17.93		26.74		18.15	
10 PERCENT EXCEEDS	133		202		141	
50 PERCENT EXCEEDS	30		52		25	
90 PERCENT EXCEEDS	0.99		13		3.5	

a From rating curve extended above 4,900 ft³/s.

