

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 CFM and inches).

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

REMARKS.--No estimated daily discharges. Records good. 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)
Mar. 21	2330	*585	*3.83	No other peak greater than 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	1.8	2.9	8.8	9.0	27	36	120	40	19	12	2.9	23
2	1.8	3.1	7.3	8.1	26	37	109	37	26	13	2.3	6.1
3	1.8	3.2	4.7	6.9	20	37	98	34	32	9.2	2.0	4.4
4	1.8	3.2	5.6	7.0	19	35	88	32	24	8.8	2.3	3.8
5	3.6	3.2	6.7	7.0	18	40	76	28	21	8.4	5.2	3.7
6	11	3.1	5.7	7.7	18	31	85	25	20	7.8	3.4	3.1
7	6.1	2.9	5.2	7.9	22	30	86	23	19	6.7	2.3	2.7
8	3.5	2.9	5.4	7.7	22	33	86	21	17	6.8	1.9	2.5
9	2.8	3.6	5.5	7.2	34	43	88	21	15	6.7	1.6	2.4
10	2.7	20	4.5	6.6	91	41	89	20	14	6.3	2.9	2.0
11	2.7	12	5.7	6.3	78	41	85	18	14	9.1	5.4	2.0
12	2.7	8.1	9.3	6.0	62	42	82	19	13	6.3	3.1	2.0
13	2.7	6.9	7.3	5.5	57	173	75	17	12	5.2	2.6	1.6
14	3.1	6.1	6.3	5.4	54	231	68	15	10	4.8	2.3	3.0
15	3.4	5.3	7.0	5.7	97	193	64	15	9.5	4.3	1.8	3.2
16	3.5	4.7	9.0	6.3	102	165	158	14	12	4.1	1.7	2.2
17	4.8	4.5	106	6.3	107	208	189	13	17	4.3	12	1.8
18	33	4.2	70	6.2	88	200	177	13	9.8	6.8	5.2	1.7
19	13	4.0	40	6.4	76	170	141	13	8.5	4.9	3.6	1.6
20	7.7	3.7	31	7.2	69	143	116	12	7.7	4.2	13	2.8
21	6.3	3.5	23	6.5	59	229	120	12	9.6	3.8	6.0	6.0
22	5.4	3.2	24	6.0	43	416	98	13	12	3.6	4.0	3.2
23	4.4	2.8	13	5.3	45	299	90	20	45	3.4	3.4	2.5
24	4.1	2.9	17	5.6	36	220	86	12	31	3.2	3.9	7.9
25	4.0	2.8	14	5.7	41	166	76	11	21	3.0	3.3	41
26	3.8	14	12	4.8	47	130	68	19	17	3.2	2.7	14
27	3.6	16	12	5.4	40	103	62	27	15	3.1	2.6	8.9
28	3.5	11	11	5.3	37	85	55	31	13	2.7	2.4	7.1
29	3.2	9.2	9.4	4.5	---	73	48	24	12	2.4	2.4	5.8
30	3.1	10	9.3	6.1	---	135	44	21	11	2.6	2.4	4.6
31	2.9	---	9.7	14	---	123	---	19	---	3.1	6.3	---
TOTAL	157.8	183.0	505.4	205.6	1435	3908	2827	639	507.1	173.8	116.9	176.6
MEAN	5.09	6.10	16.3	6.63	51.2	126	94.2	20.6	16.9	5.61	3.77	5.89
MAX	33	20	106	14	107	416	189	40	45	13	13	41
MIN	1.8	2.8	4.5	4.5	18	30	44	11	7.7	2.4	1.6	1.6
CFM	.12	.14	.37	.15	1.16	2.86	2.14	.47	.38	.13	.09	.13
IN.	.13	.15	.43	.17	1.21	3.30	2.38	.54	.43	.15	.10	.15

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1956 - 2001, BY WATER YEAR (WY)

MEAN	27.4	50.9	67.0	55.1	86.0	134	115	70.1	45.1	21.0	16.0	16.7
MAX	154	151	252	193	267	283	337	171	344	170	77.6	110
(WY)	1991	1978	1973	1996	1984	1994	1993	1978	1972	1972	1994	1996
MIN	1.08	1.94	2.06	4.01	14.0	32.5	29.9	20.1	5.37	1.18	.61	.25
(WY)	1965	1965	1999	1981	1963	1969	1968	1977	1991	1965	1966	1964

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01547700 MARSH CREEK AT BLANCHARD, PA--Continued

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1956 - 2001	
ANNUAL TOTAL	13276.1		10835.2			
ANNUAL MEAN	36.3		29.7		58.5	
HIGHEST ANNUAL MEAN					102	1972
LOWEST ANNUAL MEAN					28.6	1965
HIGHEST DAILY MEAN	566	Apr 18	416	Mar 22	3800	Jun 23 1972
LOWEST DAILY MEAN	1.4	Sep 9,10,23	1.6	Aug 9 ^a	.00	Aug 30 1966
ANNUAL SEVEN-DAY MINIMUM	1.6	Sep 5	2.2	Sep 13	.07	Aug 27 1966
MAXIMUM PEAK FLOW			585	Mar 21	^b 6900	Jun 18 1984
MAXIMUM PEAK STAGE			3.83	Mar 21	7.85	Jun 18 1984
ANNUAL RUNOFF (CFMS)	.82		.67		1.33	
ANNUAL RUNOFF (INCHES)	11.20		9.14		18.02	
10 PERCENT EXCEEDS	91		88		140	
50 PERCENT EXCEEDS	12		9.2		25	
90 PERCENT EXCEEDS	2.8		2.7		3.5	

^a Also Sept. 13, 19.

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

