

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.--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. 24	0700	Unknown	4.23	Mar. 4	0200	*1,090	*4.52

**DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
DAILY MEAN VALUES**

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.4	2.8	1.9	1.2	34	44	79	47	7.2	6.6	.39	.75
2	1.4	2.8	1.7	.83	67	38	75	42	7.6	5.8	.37	.68
3	1.4	2.7	1.7	.77	79	133	65	38	8.9	5.0	.37	.68
4	1.8	2.5	1.7	.77	87	573	60	35	7.5	4.0	.37	.75
5	2.8	2.5	1.7	.77	91	245	57	33	6.7	3.3	.37	.77
6	1.9	2.5	1.9	.68	81	174	49	31	6.0	2.6	.37	.77
7	1.5	2.5	1.9	.68	77	127	48	30	5.8	2.0	.36	3.5
8	13	2.5	1.9	.65	65	95	44	33	5.4	1.8	.35	4.9
9	11	2.5	1.9	.65	54	80	92	31	4.8	1.8	.42	2.8
10	8.3	2.9	1.9	.69	60	72	219	26	4.7	4.2	.45	1.9
11	4.5	8.2	1.8	.77	66	61	240	24	4.7	3.2	.45	1.4
12	3.0	6.4	1.7	.77	75	56	257	22	4.7	2.1	.42	1.2
13	2.4	3.8	1.7	.84	80	56	216	21	4.3	1.7	.41	1.0
14	2.3	2.9	1.6	.87	69	60	166	21	4.0	1.5	3.0	1.0
15	2.3	2.7	1.3	1.0	62	66	127	19	4.0	1.5	3.2	1.5
16	2.3	2.5	1.3	1.1	62	72	107	18	3.9	1.4	1.6	5.2
17	2.3	2.5	1.4	1.8	65	101	88	17	8.3	1.4	1.3	12
18	2.3	2.3	1.5	3.0	61	162	72	16	9.4	1.3	1.1	4.3
19	2.3	2.0	1.5	4.7	59	166	60	16	5.1	1.2	.96	2.6
20	2.3	1.9	1.5	8.7	56	140	59	15	4.2	1.9	1.2	2.1
21	2.3	1.9	1.6	12	49	157	51	13	3.8	2.0	3.0	2.6
22	2.3	1.9	7.6	12	40	176	60	13	3.7	1.5	2.4	2.7
23	2.3	1.9	6.6	25	34	150	69	18	3.5	1.3	1.6	2.1
24	2.3	1.8	3.8	e260	34	135	84	16	3.0	1.1	1.3	1.6
25	2.3	1.7	2.0	176	31	122	89	16	2.7	.88	1.2	1.4
26	2.3	1.8	1.7	97	30	109	91	13	2.5	.70	1.2	1.4
27	2.3	2.3	1.4	63	28	100	84	12	2.3	.69	1.4	1.4
28	2.5	2.3	1.4	53	44	93	73	11	5.0	.58	1.4	1.4
29	2.7	2.0	1.5	63	---	92	62	9.7	24	.49	1.5	1.4
30	2.8	1.9	1.6	51	---	87	53	8.7	12	.42	1.1	32
31	2.8	---	1.3	39	---	80	---	7.8	---	.40	.90	---
TOTAL	97.4	80.9	64.0	882.24	1640	3822	2896	673.2	179.7	64.36	34.46	97.80
MEAN	3.14	2.70	2.06	28.5	58.6	123	96.5	21.7	5.99	2.08	1.11	3.26
MAX	13	8.2	7.6	260	91	573	257	47	24	6.6	3.2	32
MIN	1.4	1.7	1.3	.65	28	38	44	7.8	2.3	.40	.35	.68
CFM	.07	.06	.05	.65	1.33	2.80	2.19	.49	.14	.05	.03	.07
IN.	.08	.07	.05	.74	1.38	3.22	2.44	.57	.15	.05	.03	.08

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1956 - 1999, BY WATER YEAR (WY)

MEAN	28.4	52.7	69.0	57.0	87.2	135	115	72.2	45.7	21.6	16.5	17.3
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

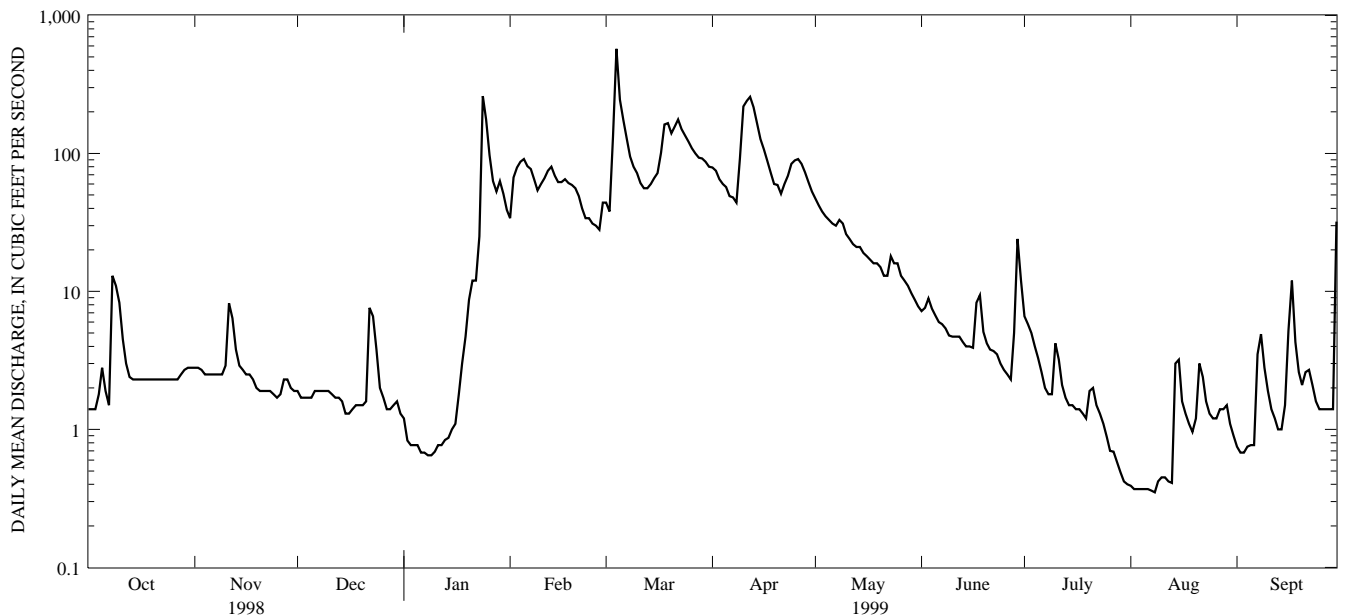
e Estimated.

WEST BRANCH SUSQUEHANNA RIVER BASIN

01547700 MARSH CREEK AT BLANCHARD, PA--Continued

SUMMARY STATISTICS	FOR 1998 CALENDAR YEAR		FOR 1999 WATER YEAR		WATER YEARS 1956 - 1999	
ANNUAL TOTAL	23678.2		10532.06			
ANNUAL MEAN	64.9		28.9		59.6	
HIGHEST ANNUAL MEAN					102	1972
LOWEST ANNUAL MEAN					28.6	1965
HIGHEST DAILY MEAN	e900	Jan 8	573	Mar 4	3800	Jun 23 1972
LOWEST DAILY MEAN	1.1	Sep 16-20	.35	Aug 8	.00	Aug 30 1966
ANNUAL SEVEN-DAY MINIMUM	1.1	Sep 14	.37	Aug 2	.07	Aug 27 1966
INSTANTANEOUS PEAK FLOW			1090	Mar 4	a6900	Jun 18 1984
INSTANTANEOUS PEAK STAGE			4.52	Mar 4	7.85	Jun 18 1984
ANNUAL RUNOFF (CFSM)	1.47		.65		1.35	
ANNUAL RUNOFF (INCHES)	19.97		8.88		18.36	
10 PERCENT EXCEEDS	209		85		142	
50 PERCENT EXCEEDS	8.6		3.2		26	
90 PERCENT EXCEEDS	1.5		.84		3.6	

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



1-YEAR HYDROGRAPH
 OCTOBER 1, 1998 TO SEPTEMBER 30, 1999