

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)
Apr. 18	1700	*694	*4.02	No other peak greater than base discharge.			

**DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES**

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	11	3.7	22	17	11	176	42	54	16	16	4.2	2.7
2	5.8	5.9	18	16	11	142	40	51	15	15	4.7	2.7
3	4.0	15	16	16	10	109	40	43	15	14	6.6	2.9
4	13	7.8	15	24	10	92	81	39	13	14	5.0	2.4
5	11	5.4	13	24	10	79	67	37	15	12	3.9	2.0
6	6.0	4.5	13	18	10	67	68	34	24	10	5.1	1.7
7	4.3	3.9	13	17	9.8	58	67	31	17	9.8	23	1.6
8	3.7	3.7	11	16	8.8	53	82	29	13	8.5	37	1.5
9	3.5	3.4	9.6	16	8.2	49	95	27	11	8.4	11	1.4
10	8.5	3.4	9.3	21	8.5	45	90	26	10	8.6	7.8	1.4
11	10	3.2	8.9	30	10	50	87	24	9.9	7.9	6.3	1.6
12	6.6	3.1	7.8	26	12	60	83	22	17	6.8	6.9	2.4
13	5.5	2.9	8.0	25	10	51	72	21	28	6.6	6.3	6.3
14	8.9	2.8	93	18	64	50	65	20	225	6.6	5.3	3.6
15	8.2	2.7	125	23	83	51	59	17	137	7.0	4.5	2.5
16	6.5	2.4	87	26	74	55	54	15	107	9.4	5.3	2.3
17	6.0	2.3	64	13	67	112	159	15	80	9.4	3.8	1.9
18	5.6	2.3	50	17	57	101	566	14	69	7.1	3.7	1.6
19	5.3	2.3	41	22	56	102	516	20	60	5.9	4.0	1.6
20	5.0	2.4	45	23	48	93	331	17	46	6.1	3.4	1.6
21	5.0	2.5	51	19	43	134	270	15	59	5.3	2.9	1.8
22	4.9	2.5	43	17	46	183	253	15	65	5.0	2.7	1.5
23	4.6	2.5	40	17	75	181	330	18	45	4.5	3.3	1.4
24	4.3	2.5	31	17	103	154	289	55	38	4.2	4.9	2.6
25	4.3	3.5	26	15	180	130	209	32	33	4.2	3.4	3.2
26	4.3	120	31	14	214	104	149	26	31	3.9	2.8	2.9
27	4.3	130	30	13	190	87	114	23	32	3.8	2.7	3.7
28	4.0	61	24	11	290	77	91	22	26	4.1	3.3	2.7
29	4.0	39	24	10	214	66	74	21	22	3.8	3.2	2.0
30	3.9	29	21	9.8	---	56	62	18	19	5.8	3.0	1.8
31	3.7	---	20	10	---	48	---	16	---	5.2	2.7	---
TOTAL	185.7	475.6	1010.6	560.8	1933.3	2815	4505	817	1297.9	238.9	192.7	69.3
MEAN	5.99	15.9	32.6	18.1	66.7	90.8	150	26.4	43.3	7.71	6.22	2.31
MAX	13	130	125	30	290	183	566	55	225	16	37	6.3
MIN	3.5	2.3	7.8	9.8	8.2	45	40	14	9.9	3.8	2.7	1.4
CFM	.14	.36	.74	.41	1.51	2.06	3.41	.60	.98	.17	.14	.05
IN.	.16	.40	.85	.47	1.63	2.37	3.80	.69	1.09	.20	.16	.06

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1956 - 2000, BY WATER YEAR (WY)

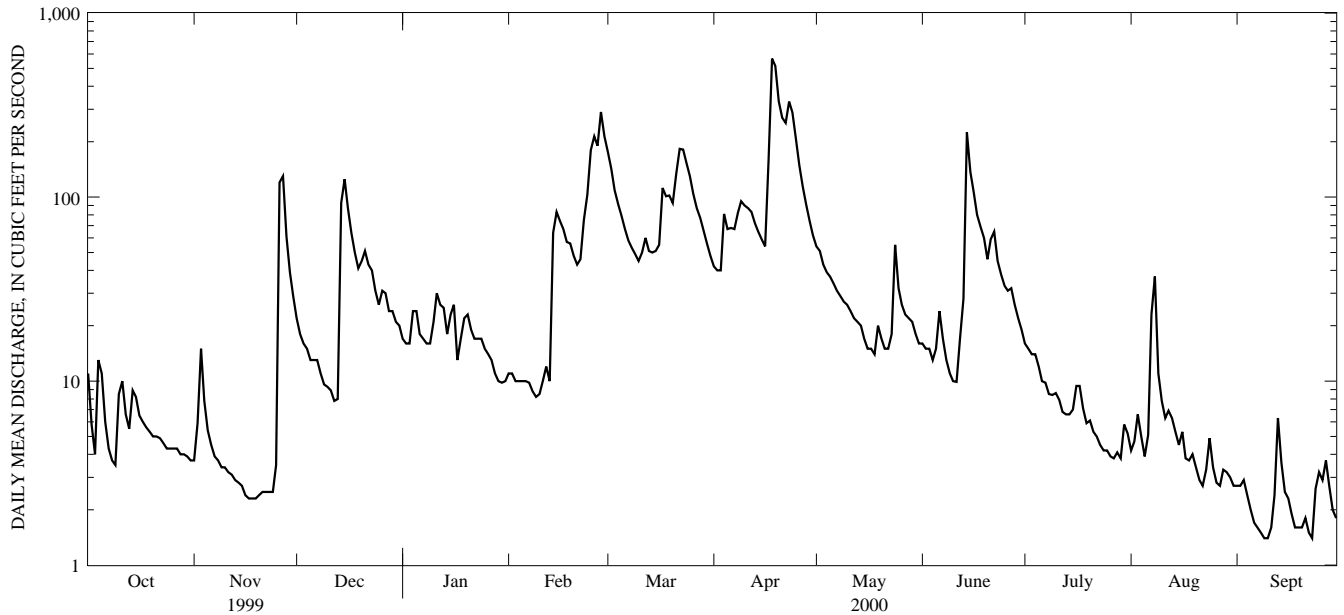
MEAN	27.9	51.9	68.2	56.1	86.8	134	116	71.2	45.7	21.3	16.3	17.0
MAX	154	151	252	193	267	283	337	171	344	170	77.6	110
(WY)	1991	1978	1973	1996	1984	1994	1993	1978	1972	1972	1994	1996
MIN	1.08	1.94	2.06	4.01	14.0	32.5	29.9	20.1	5.37	1.18	.61	.25
(WY)	1965	1965	1999	1981	1963	1969	1968	1977	1991	1965	1966	1964

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01547700 MARSH CREEK AT BLANCHARD, PA--Continued

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1956 - 2000	
ANNUAL TOTAL	11961.66		14101.8			
ANNUAL MEAN	32.8		38.5		59.1	
HIGHEST ANNUAL MEAN					102	1972
LOWEST ANNUAL MEAN					28.6	1965
HIGHEST DAILY MEAN	573	Mar 4	566	Apr 18	3800	Jun 23 1972
LOWEST DAILY MEAN	.35	Aug 8	1.4	Sep 9,10,23	.00	Aug 30 1966
ANNUAL SEVEN-DAY MINIMUM	.37	Aug 2	1.6	Sep 5	.07	Aug 27 1966
INSTANTANEOUS PEAK FLOW			694	Apr 18	a6900	Jun 18 1984
INSTANTANEOUS PEAK STAGE			4.02	Apr 18	7.85	Jun 18 1984
ANNUAL RUNOFF (CFSM)	.74		.87		1.34	
ANNUAL RUNOFF (INCHES)	10.09		11.90		18.22	
10 PERCENT EXCEEDS	90		94		141	
50 PERCENT EXCEEDS	7.8		15		26	
90 PERCENT EXCEEDS	.84		2.7		3.6	

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



1-YEAR HYDROGRAPH
OCTOBER 1, 1999 TO SEPTEMBER 30, 2000