

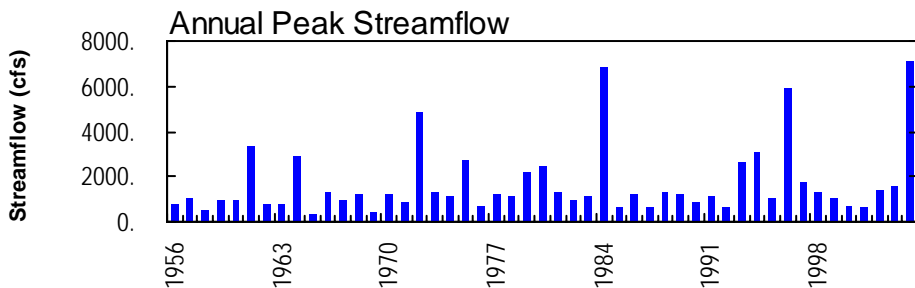
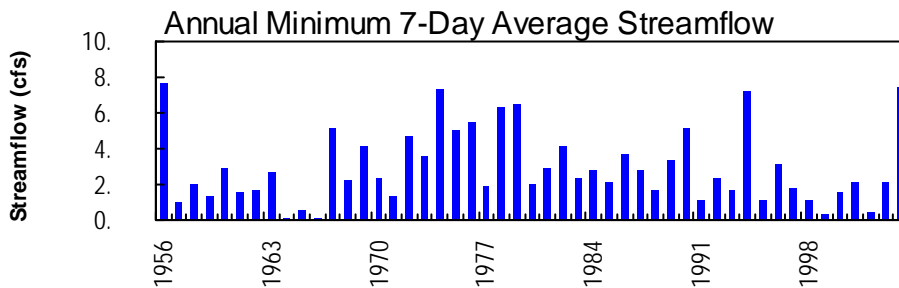
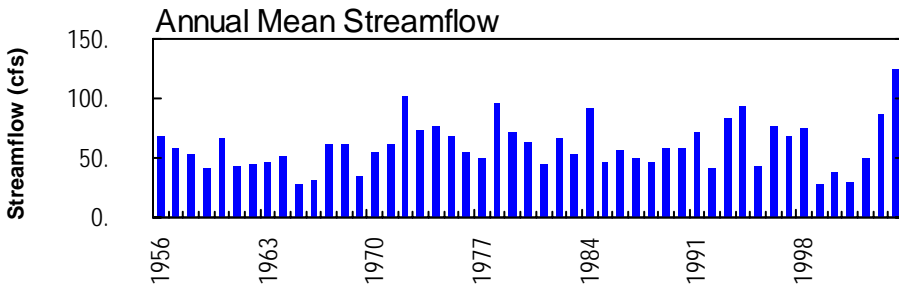
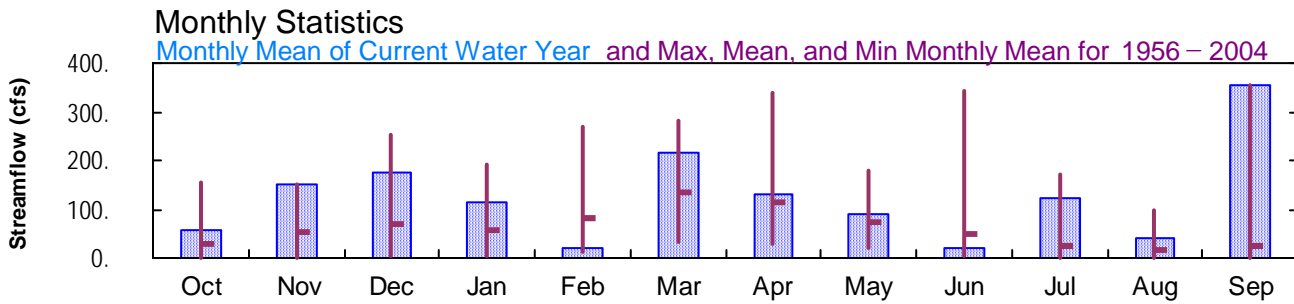
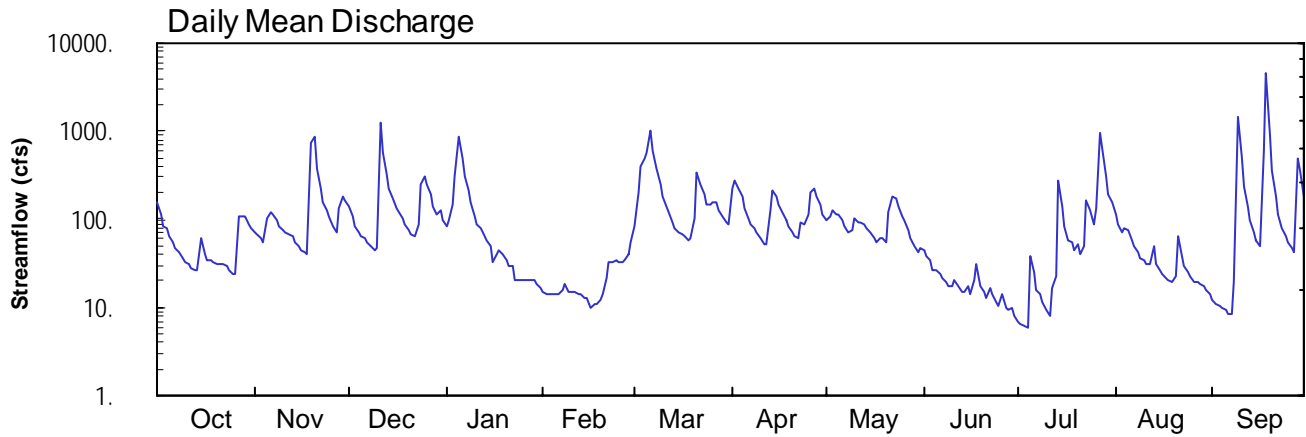


2004 Water Year
WEST BRANCH SUSQUEHANNA RIVER BASIN
01547700 Marsh Creek at Blanchard, PA

Latitude: 41°03'34"
Centre County

Longitude: 077°36'22"
Datum: 586.16 feet

Hydrologic Unit Code: 02050204
Drainage Area: 44.1 mi²



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)
Nov. 19	1945	2,140	5.54	July 23	1615	564	3.83
Dec. 11	0900	2,290	5.65	July 27	1230	1,400	4.93
Dec. 24	1545	487	3.66	Sept. 9	1230	2,760	5.96
Jan. 5	0630	1,120	4.64	Sept. 18	0230	*7,080	*7.91
Mar. 6	0830	1,160	4.68	Sept. 28	0645	743	4.20
July 14	1400	918	4.40				

**DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES**

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	157	73	139	83	e15	e85	228	97	44	7.0	116	12
2	111	66	108	99	e14	e200	275	109	38	6.5	87	11
3	85	61	84	149	e14	393	224	127	35	6.1	71	10
4	77	56	72	300	e14	479	180	113	27	5.9	79	10
5	65	104	66	869	e14	566	134	112	26	38	75	9.3
6	54	117	63	498	e14	988	104	98	24	25	58	8.7
7	47	115	55	307	e16	599	88	85	22	16	49	8.3
8	42	100	49	213	e18	379	79	72	19	14	41	19
9	37	85	45	158	e15	248	70	75	18	11	36	1450
10	33	75	48	e110	e15	181	60	105	18	9.4	35	508
11	31	71	1270	e88	e15	140	53	91	21	8.2	30	235
12	28	68	559	e80	e14	119	53	93	18	17	30	143
13	27	65	317	e65	e14	93	128	87	15	23	e50	96
14	26	56	227	e58	e13	78	214	80	15	275	31	71
15	61	50	176	e50	e13	72	185	72	17	138	26	59
16	40	45	133	e33	e10	67	147	62	14	82	24	49
17	35	43	119	e40	e11	63	120	54	21	58	22	588
18	34	40	103	e45	e11	57	98	60	30	55	20	4480
19	33	730	88	e40	e12	60	83	61	18	46	20	911
20	32	852	76	e35	e14	105	73	56	15	51	23	352
21	31	386	67	e30	e22	338	64	118	13	41	64	187
22	31	226	65	e29	e33	243	61	183	16	50	38	113
23	29	154	89	e20	e33	188	92	176	14	168	30	81
24	27	127	246	e20	e35	150	88	144	11	128	26	65
25	24	105	301	e20	e33	149	112	107	10	86	22	55
26	24	83	244	e20	e33	158	206	97	14	136	20	48
27	109	73	187	e20	e34	155	224	76	9.8	947	19	42
28	110	130	143	e20	e40	129	185	62	9.2	667	18	489
29	107	179	117	e20	e55	106	145	50	9.7	314	17	351
30	89	166	124	e18	---	91	116	43	8.0	190	16	178
31	78	---	96	e17	---	87	---	47	---	155	14	---
TOTAL	1714	4501	5476	3554	594	6766	3889	2812	569.7	3774.1	1207	10639.3
MEAN	55.3	150	177	115	20.5	218	130	90.7	19.0	122	38.9	355
MAX	157	852	1270	869	55	988	275	183	44	947	116	4480
MIN	24	40	45	17	10	57	53	43	8.0	5.9	14	8.3
CFSM	1.25	3.40	4.01	2.60	0.46	4.95	2.94	2.06	0.43	2.76	0.88	8.04
IN.	1.45	3.80	4.62	3.00	0.50	5.71	3.28	2.37	0.48	3.18	1.02	8.97

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1956 - 2004, BY WATER YEAR (WY)

MEAN	27.3	52.1	68.7	56.2	83.0	136	114	73.0	47.2	22.7	17.8	26.2
MAX	154	151	252	193	267	283	337	181	344	170	98.9	355
(WY)	1991	1978	1973	1996	1984	1994	1993	2002	1972	1972	2003	2004
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.

WEST BRANCH SUSQUEHANNA RIVER BASIN

01547700 MARSH CREEK AT BLANCHARD, PA--Continued

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1956 - 2004	
ANNUAL TOTAL	38996.5		45496.1			
ANNUAL MEAN	107		124		60.2	
HIGHEST ANNUAL MEAN					124	2004
LOWEST ANNUAL MEAN					28.6	1965
HIGHEST DAILY MEAN	1270	Dec 11	4480	Sep 18	4480	Sep 18 2004
LOWEST DAILY MEAN	6.5	Jul 20	5.9	Jul 4	0.00	Aug 30 1966
ANNUAL SEVEN-DAY MINIMUM	8.5	Jul 15	7.5	Jun 28	0.07	Aug 27 1966
MAXIMUM PEAK FLOW			a7080	Sep 18	a7080	Sep 18 2004
MAXIMUM PEAK STAGE			7.91	Sep 18	7.91	Sep 18 2004
ANNUAL RUNOFF (CFSM)	2.42		2.82		1.37	
ANNUAL RUNOFF (INCHES)	32.90		38.38		18.56	
10 PERCENT EXCEEDS	230		230		143	
50 PERCENT EXCEEDS	68		64		26	
90 PERCENT EXCEEDS	16		14		3.6	

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