

## WEST BRANCH SUSQUEHANNA RIVER BASIN

## 01547500 BALD EAGLE CREEK AT BLANCHARD, PA

**LOCATION.**--Lat 41°03'06", long 77°36'17", Centre County, Hydrologic Unit 02050204, on left bank 0.4 mi downstream from Foster Joseph Sayers Dam, 0.7 mi upstream from Marsh Creek, and 0.9 mi south of Blanchard.

**DRAINAGE AREA.**--339 mi<sup>2</sup>.

**PERIOD OF RECORD.**--May 1954 to current year. Prior to October 1967, published as North Bald Eagle Creek at Blanchard.

**REVISED RECORDS.**--WSP 1903: 1956(M).

**GAGE.**--Water-stage recorder. Datum of gage is 579.79 ft above National Geodetic Vertical Datum of 1929.

**REMARKS.**--Records good except those for estimated daily discharges, which are poor. Flow regulated since March 1971 by Foster Joseph Sayers Dam (station 01547480). Several measurements of water temperature were made during the year. Satellite telemetry at station.

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	129	456	e350	813	258	887	665	187	1450	321	1210	1100
2	128	516	e300	1820	258	776	665	181	1260	285	1260	1480
3	126	400	e240	2270	258	752	666	181	993	285	2030	1350
4	126	314	e240	2230	356	730	668	181	1720	285	2330	1770
5	126	315	e240	1440	390	550	1240	184	1590	285	1460	1920
6	126	498	e240	897	249	501	1640	184	1290	285	1250	1290
7	126	562	e240	707	249	451	1620	e240	1180	285	709	742
8	126	458	e240	565	249	371	1420	e300	942	282	608	574
9	126	303	e240	697	249	655	1180	360	856	280	574	494
10	126	266	e220	879	249	799	1040	360	794	280	785	405
11	126	391	e200	707	249	527	1220	371	732	650	878	371
12	646	476	e290	542	248	605	1660	365	661	445	1410	371
13	436	460	554	487	249	1200	1500	311	660	325	1340	398
14	236	426	1010	487	249	1890	1110	309	581	280	786	444
15	222	e500	1550	469	249	1920	860	307	528	280	490	471
16	294	e700	1340	378	249	1910	764	357	498	280	418	896
17	404	e1300	816	344	249	1530	644	423	482	263	481	747
18	335	e1600	563	344	417	630	361	423	1030	232	456	512
19	266	e1200	488	343	737	674	246	423	1060	232	340	1110
20	240	e1000	921	343	967	494	249	422	1030	232	303	1440
21	220	e750	1220	344	947	6.0	251	422	953	249	276	1030
22	201	e820	991	306	929	429	253	423	911	783	276	724
23	164	e890	810	253	917	1610	224	428	814	427	276	1730
24	163	e800	610	253	1020	2190	208	487	629	300	275	2170
25	160	e680	535	253	1170	2480	209	523	515	266	267	1300
26	555	e620	534	253	1140	2570	212	523	487	266	276	892
27	501	e590	519	253	1110	2700	197	567	451	266	319	811
28	297	e580	434	254	1070	2720	189	720	388	375	719	161
29	270	e510	399	257	---	1830	191	671	361	306	291	1600
30	288	e430	380	258	---	1210	191	555	339	238	668	2450
31	365	---	344	258	---	984	---	634	---	220	744	---
TOTAL	7654	18811	17058	19704	14931	36581.0	21543	12022	25185	9788	23505	30753
MEAN	247	627	550	636	533	1180	718	388	840	316	758	1025
MAX	646	1600	1550	2270	1170	2720	1660	720	1720	783	2330	2450
MIN	126	266	200	253	248	6.0	189	181	339	220	267	161

e Estimated.

WEST BRANCH SUSQUEHANNA RIVER BASIN

01547500 BALD EAGLE CREEK AT BLANCHARD, PA--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1971 - 2003, BY WATER YEAR (WY) (SINCE REGULATION)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	393	562	555	511	653	730	676	567	462	315	272	325
MAX (WY)	1012	1291	1211	1213	1450	1664	2095	1328	1184	1580	867	1096
MIN (WY)	1980	1978	1997	1996	1984	1979	1993	1978	1972	1972	1984	1996
MIN (WY)	159	188	160	133	275	238	208	203	167	139	140	120
(WY)	2002	1988	1999	1981	1993	1990	1976	1995	1999	1999	1995	1995

SUMMARY STATISTICS FOR 2002 CALENDAR YEAR FOR 2003 WATER YEAR WATER YEARS 1971 - 2003

ANNUAL TOTAL	166135		237535.0		501		764		1978	
ANNUAL MEAN	455		651		300		300		2001	
HIGHEST ANNUAL MEAN					4730		Jun 29		1972	
LOWEST ANNUAL MEAN					5.3		Mar 29		1993a	
HIGHEST DAILY MEAN	3000	Jun 10	2720	Mar 28	4730	Jun 29	1972			
LOWEST DAILY MEAN	15	May 13	6.0	Mar 21	5.3	Mar 29	1993a			
ANNUAL SEVEN-DAY MINIMUM	126	Oct 3	126	Oct 3	71	Apr 20	1971			
MAXIMUM PEAK FLOW			2820	Mar 27	4890	Jun 28	1972			
MAXIMUM PEAK STAGE			6.85	Mar 27	9.37	Jun 28	1972			
INSTANTANEOUS LOW FLOW					0.00	May 12	1976c			
10 PERCENT EXCEEDS	927		1410		1040					
50 PERCENT EXCEEDS	288		476		325					
90 PERCENT EXCEEDS	129		229		160					

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1954 - 1970, BY WATER YEAR (WY) (PRIOR TO REGULATION)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	224	287	330	318	506	855	797	547	289	212	201	178
MAX (WY)	534	557	686	547	909	1376	1392	1053	561	478	623	437
MIN (WY)	1956	1960	1957	1960	1956	1964	1957	1960	1968	1956	1956	1956
MIN (WY)	105	102	109	161	158	304	318	289	137	105	100	99.8
(WY)	1965	1965	1966	1966	1963	1969	1968	1955	1965	1965	1966	1965

SUMMARY STATISTICS WATER YEARS 1954 - 1970

ANNUAL MEAN	395											
HIGHEST ANNUAL MEAN	555					1956						
LOWEST ANNUAL MEAN	247					1965						
HIGHEST DAILY MEAN	7010				Mar 10	1964						
LOWEST DAILY MEAN	90				Sep 11,13	1966						
ANNUAL SEVEN-DAY MINIMUM	93				Sep 7	1966						
MAXIMUM PEAK FLOW	10100				Mar 10	1964						
MAXIMUM PEAK STAGE	11.59				Mar 10	1964						
INSTANTANEOUS LOW FLOW	.00				Jun 16	1970c						
ANNUAL RUNOFF (CFSM)	1.16											
ANNUAL RUNOFF (INCHES)	15.82											
10 PERCENT EXCEEDS	834											
50 PERCENT EXCEEDS	235											
90 PERCENT EXCEEDS	124											

a Also Mar. 31 and Apr. 1.

b From rating curve extended above 4,100 ft<sup>3</sup>/s.

c No flow parts of June 16, Nov. 10, 1970, due to construction of dam; May 12, 18, 19, 1976; Mar. 6, 1979, result of shutoff at dam.

