

## 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.**--No estimated daily discharges. Records good. 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 2001 TO SEPTEMBER 2002  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	143	192	315	143	606	429	715	559	743	256	159	129
2	145	192	314	150	584	475	623	825	515	228	160	129
3	146	192	465	152	474	506	517	812	418	228	160	129
4	146	192	547	151	432	636	340	639	402	228	160	129
5	146	192	444	146	372	531	210	545	1370	228	160	129
6	146	247	385	147	340	446	150	506	1530	228	159	129
7	146	276	319	146	315	444	150	472	1300	228	158	129
8	144	276	231	146	263	312	150	399	2320	228	157	129
9	143	276	193	146	243	237	151	1010	2800	226	157	129
10	143	276	189	168	271	235	254	1540	3000	220	157	129
11	143	276	189	287	806	215	269	1050	1930	220	158	129
12	143	276	189	335	831	203	195	737	750	220	158	129
13	143	275	189	258	593	203	196	15	574	220	157	129
14	144	272	189	195	534	204	196	494	584	204	157	129
15	143	272	189	194	650	205	268	1480	1290	192	157	129
16	143	272	189	195	710	208	272	2220	1190	172	157	129
17	141	272	292	208	707	211	213	2400	890	160	157	129
18	140	272	501	239	650	473	216	1920	685	160	157	129
19	141	238	601	212	602	686	220	2650	528	160	157	129
20	140	218	552	195	597	671	219	2710	435	160	157	129
21	140	218	321	194	592	958	343	1990	371	160	157	129
22	175	218	243	192	588	1050	475	1120	371	160	160	129
23	196	218	222	192	583	793	408	645	377	160	160	129
24	196	218	202	192	556	549	328	589	377	160	160	129
25	194	217	189	224	475	518	304	468	360	160	160	129
26	194	347	189	281	438	488	323	411	324	160	160	129
27	195	352	185	281	435	766	324	411	324	160	160	129
28	196	314	185	281	432	1520	406	446	560	160	160	129
29	194	314	155	265	---	1570	653	666	436	160	160	129
30	193	314	140	272	---	1400	616	601	275	159	139	129
31	193	---	141	418	---	935	---	1530	---	159	129	---
TOTAL	4935	7684	8654	6605	14679	18077	9704	31860	27029	5924	4864	3870
MEAN	159	256	279	213	524	583	323	1028	901	191	157	129
MAX	196	352	601	418	831	1570	715	2710	3000	256	160	129
MIN	140	192	140	143	243	203	150	15	275	159	129	129

WEST BRANCH SUSQUEHANNA RIVER BASIN

01547500 BALD EAGLE CREEK AT BLANCHARD, PA--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1971 - 2002, BY WATER YEAR (WY) (SINCE REGULATION)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	398	559	555	507	657	716	675	573	450	315	257	303
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 2001 CALENDAR YEAR	FOR 2002 WATER YEAR	WATER YEARS 1971 - 2002	
ANNUAL TOTAL	107877	143885		
ANNUAL MEAN	296	394	496	
HIGHEST ANNUAL MEAN			764	1978
LOWEST ANNUAL MEAN			300	2001
HIGHEST DAILY MEAN	1400	Feb 17	4730	Jun 29 1972
LOWEST DAILY MEAN	140	Oct 18 <sup>a</sup>	15	May 13
ANNUAL SEVEN-DAY MINIMUM	141	Oct 15	129	Aug 31
MAXIMUM PEAK FLOW			3080	Jun 10
MAXIMUM PEAK STAGE			7.16	Jun 10
INSTANTANEOUS LOW FLOW				9.37
10 PERCENT EXCEEDS	642	739	1030	May 12 1976
50 PERCENT EXCEEDS	192	224	322	
90 PERCENT EXCEEDS	147	140	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	c10100	Mar 10 1964
MAXIMUM PEAK STAGE	11.59	Mar 10 1964
INSTANTANEOUS LOW FLOW	.00	Jun 16 1970 <sup>d</sup>
ANNUAL RUNOFF (CFSM)	1.16	
ANNUAL RUNOFF (INCHES)	15.82	
10 PERCENT EXCEEDS	834	
50 PERCENT EXCEEDS	235	
90 PERCENT EXCEEDS	124	

- a Also Oct. 20, 21, Dec. 30.
- b Also Mar. 31 and Apr. 1.
- c From rating curve extended above 4,100 ft<sup>3</sup>/s.
- d 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.

