

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 mi².

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 sea level.

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 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	301	138	682	200	200	1520	223	475	288	226	170	168
2	249	183	410	200	183	1290	203	424	289	227	230	202
3	210	263	272	200	152	823	206	391	295	229	355	222
4	143	219	272	230	152	621	277	391	295	227	248	195
5	143	139	233	276	151	514	323	393	295	226	276	173
6	142	138	203	250	174	458	257	397	295	208	307	162
7	140	138	200	248	196	463	247	369	294	172	356	142
8	140	138	200	246	196	413	259	346	293	172	391	140
9	182	138	200	223	182	380	371	346	294	172	371	140
10	241	138	200	203	156	380	304	326	294	172	277	140
11	261	138	200	233	156	384	268	290	255	172	206	140
12	244	138	200	290	156	478	271	290	228	172	175	141
13	186	138	200	290	177	450	272	290	309	172	175	149
14	138	138	624	276	1000	339	272	290	1430	172	175	198
15	156	298	1210	250	1710	266	272	257	724	200	175	172
16	192	397	675	248	1440	242	273	234	790	222	177	172
17	192	397	565	219	1220	347	316	234	601	330	177	172
18	192	397	366	200	1200	302	964	234	487	331	178	172
19	192	397	246	200	1170	213	1540	289	411	222	175	153
20	192	397	327	200	1050	179	1650	295	341	204	175	140
21	174	392	481	200	905	239	1630	234	383	170	175	140
22	139	391	405	200	842	446	1630	271	726	171	157	140
23	138	391	341	200	854	420	1640	345	492	172	146	140
24	138	391	316	200	1100	371	1630	984	389	172	146	140
25	138	391	239	200	1340	374	1320	1050	366	172	146	140
26	138	772	200	200	1380	377	866	614	343	172	161	153
27	138	1310	233	200	1360	325	715	457	331	170	168	165
28	138	906	285	200	1450	248	647	397	315	171	168	165
29	138	822	285	200	1580	209	583	397	278	171	168	158
30	138	979	285	200	---	283	528	380	256	172	168	143
31	138	---	238	200	---	267	---	326	---	171	168	---
TOTAL	5391	11212	10793	6882	21832	13621	19957	12016	12387	6112	6540	4777
MEAN	174	374	348	222	753	439	665	388	413	197	211	159
MAX	301	1310	1210	290	1710	1520	1650	1050	1430	331	391	222
MIN	138	138	200	200	151	179	203	234	228	170	146	140

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01547500 BALD EAGLE CREEK AT BLANCHARD, PA--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1971 - 2000, BY WATER YEAR (WY) (SINCE REGULATION)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	413	577	574	528	660	725	692	569	442	324	264	313
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)	165	188	160	133	275	238	208	203	167	139	140	120
MIN (WY)	1983	1988	1999	1981	1993	1990	1976	1995	1999	1999	1995	1995

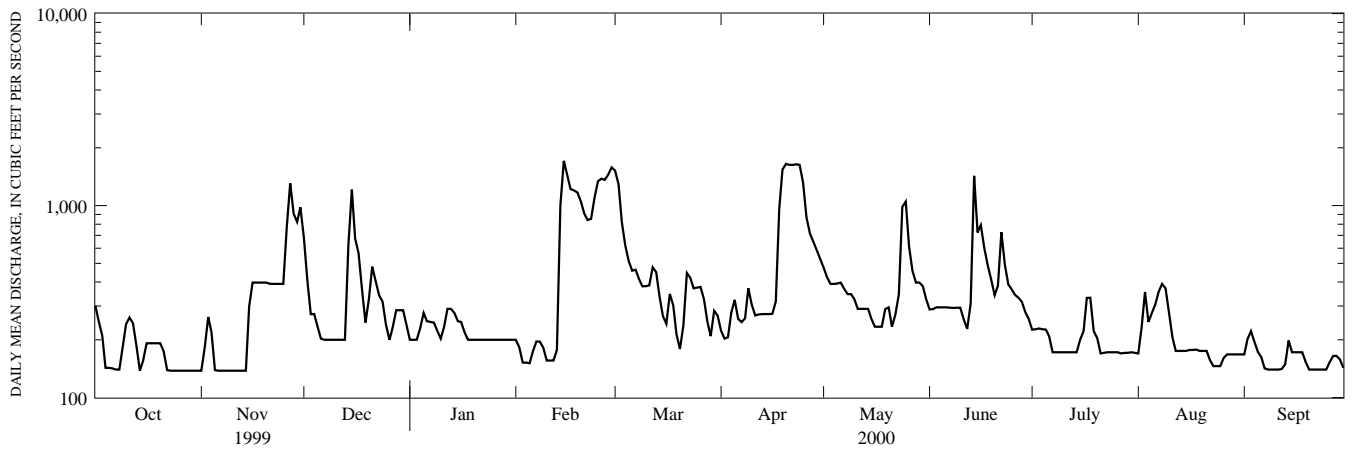
SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR	FOR 2000 WATER YEAR	WATER YEARS 1971 - 2000
ANNUAL TOTAL	120237	131520	
ANNUAL MEAN	329	359	506
HIGHEST ANNUAL MEAN			764 1978
LOWEST ANNUAL MEAN			306 1999
HIGHEST DAILY MEAN	1810 Jan 27	1710 Feb 15	4730 Jun 29 1972
LOWEST DAILY MEAN	129 Jun 16	138 Oct 14 ^a	5.3 Mar 29 1993 ^b
ANNUAL SEVEN-DAY MINIMUM	135 Jul 3	138 Oct 23	71 Apr 20 1971
INSTANTANEOUS PEAK FLOW		2240 Apr 25	c4890 Jun 28 1972
INSTANTANEOUS PEAK STAGE		6.12 Apr 25	d9.37 Jun 28 1972
INSTANTANEOUS LOW FLOW			.00 May 12 1976
10 PERCENT EXCEEDS	681	800	1050
50 PERCENT EXCEEDS	203	243	330
90 PERCENT EXCEEDS	138	142	162

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
MIN (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
INSTANTANEOUS PEAK FLOW	c10100 Mar 10 1964
INSTANTANEOUS PEAK STAGE	11.59 Mar 10 1964
INSTANTANEOUS LOW FLOW	.00 Jun 16 1970 ^d
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. 23-31, Nov. 1, 6-14..
- b Also Mar. 31 and Apr. 1.
- c From rating curve extended above 4,100 ft³/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.



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