

JUNIATA RIVER BASIN

01557500 BALD EAGLE CREEK AT TYRONE, PA

LOCATION.--Lat 40°41'01", long 78°14'02", Blair County, Hydrologic Unit 02050302, on left bank 0.2 mi upstream from highway bridge on SR 220 at Tyrone, 0.2 mi upstream from Laurel Run, and 1.3 mi upstream from mouth.

DRAINAGE AREA.--44.1 mi².

PERIOD OF RECORD.--October 1944 to current year. Prior to October 1967, published as South Bald Eagle Creek at Tyrone.

REVISED RECORDS.--WSP 1903: 1954(M). WDR PA-75-2: 1974.

GAGE.--Water-stage recorder. Datum of gage is 921.80 ft above sea level. Oct. 1, 1944, to Nov. 15, 1950, water-stage recorder, and Nov. 16, 1950, to Nov. 30, 1952, nonrecording gage at site 0.5 mi downstream at datum 17.99 ft lower.

REMARKS.--Records good except those for estimated daily discharges, which are poor. Prior to Nov. 30, 1952, daily discharges were affected by West Virginia Pulp and Paper Company diversion. Several measurements of water temperature were made during the year.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage known, about 15 ft, Mar. 17 or 18, 1936, site and datum in use prior to Dec. 1, 1952.

PEAK DISCHARGES FOR CURRENT YEAR.--Peak discharges greater than a base discharge of 940 ft³/s and maximum (*):

Date	Time	Discharge ft ³ /s	Gage Height (ft)	Date	Time	Discharge ft ³ /s	Gage Height (ft)
Mar. 3	2245	*1,180	a4.33	No other peak greater than base discharge.			

a Maximum gage height, 4.63 ft, Jan. 24 (backwater from ice).

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.5	7.4	7.9	e3.9	90	66	150	60	14	8.6	6.0	4.4
2	5.2	7.5	7.8	e3.5	148	56	152	54	18	9.6	5.3	4.3
3	5.8	7.6	7.6	e3.3	154	201	145	50	23	8.5	4.8	4.2
4	9.4	7.7	7.6	e2.9	184	574	141	48	16	7.6	4.6	4.1
5	7.8	7.8	7.8	e2.7	169	e170	126	45	14	7.1	4.5	4.2
6	6.9	8.0	7.7	e2.8	154	e110	107	42	13	6.8	4.7	6.7
7	6.6	8.0	7.6	e2.9	162	e92	94	41	13	6.4	4.3	12
8	39	8.0	8.1	e3.2	154	e76	83	44	12	6.1	5.3	6.4
9	19	8.0	8.7	e3.4	133	e68	277	41	11	6.0	5.6	5.3
10	14	13	8.1	e3.5	136	e64	378	35	11	9.8	4.7	4.9
11	9.5	16	7.8	e4.0	131	e59	282	32	11	7.8	4.5	4.5
12	8.1	11	7.6	e4.2	141	e57	251	31	11	6.7	4.3	4.2
13	7.4	9.0	7.6	e4.6	126	e52	190	29	10	6.3	6.9	4.0
14	7.1	8.6	7.4	e5.4	108	e53	160	28	10	6.2	17	4.3
15	7.0	8.3	7.1	e6.6	98	e60	135	26	10	6.0	6.4	4.9
16	6.8	8.2	7.2	e8.0	98	e72	129	24	9.6	5.8	5.3	12
17	6.8	8.1	7.3	e10	101	e135	112	23	21	5.7	4.9	11
18	6.7	7.9	7.5	e15	95	309	94	22	14	6.7	4.7	6.1
19	7.0	7.7	7.6	e20	87	229	80	22	11	5.8	4.7	5.3
20	7.0	7.9	7.6	e27	77	171	99	21	9.9	6.0	4.9	5.4
21	6.9	8.1	8.8	e27	68	188	81	20	9.4	6.1	5.7	7.3
22	7.2	7.6	39	e62	77	197	121	19	9.1	15	5.4	6.0
23	7.1	7.6	19	e200	81	163	131	27	8.6	8.0	4.7	5.2
24	7.0	7.6	e10	e400	59	156	130	26	8.3	6.4	4.4	4.8
25	7.0	7.6	e9.0	217	53	150	119	23	8.1	6.0	5.4	4.6
26	7.2	8.2	e7.8	129	46	136	112	20	7.9	6.1	22	4.4
27	7.3	8.4	e7.1	91	43	127	97	19	7.9	5.9	15	4.3
28	7.5	7.9	e6.4	143	64	128	84	17	10	5.6	7.2	4.7
29	7.6	7.8	e5.7	144	---	135	74	16	15	5.4	5.7	5.9
30	7.6	7.7	e5.0	112	---	140	66	15	10	5.2	4.9	43
31	7.6	---	e4.4	86	---	139	---	14	---	5.0	4.6	---
TOTAL	272.6	254.2	275.8	1747.9	3037	4333	4200	934	356.8	214.2	198.4	208.4
MEAN	8.79	8.47	8.90	56.4	108	140	140	30.1	11.9	6.91	6.40	6.95
MAX	39	16	39	400	184	574	378	60	23	15	22	43
MIN	5.2	7.4	4.4	2.7	43	52	66	14	7.9	5.0	4.3	4.0
CFSM	.20	.19	.20	1.28	2.46	3.17	3.17	.68	.27	.16	.15	.16
IN.	.23	.21	.23	1.47	2.56	3.66	3.54	.79	.30	.18	.17	.18

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1945 - 1999, BY WATER YEAR (WY)

MEAN	34.2	57.2	76.9	81.3	104	166	146	110	63.4	31.3	21.0	24.2
MAX	178	216	217	226	251	364	399	304	377	138	99.8	157
(WY)	1991	1951	1973	1952	1981	1945	1993	1978	1972	1956	1956	1996
MIN	4.10	5.95	6.43	10.9	15.9	48.1	34.0	23.8	11.9	5.41	4.15	3.59
(WY)	1964	1954	1966	1981	1963	1990	1946	1976	1999	1965	1966	1965

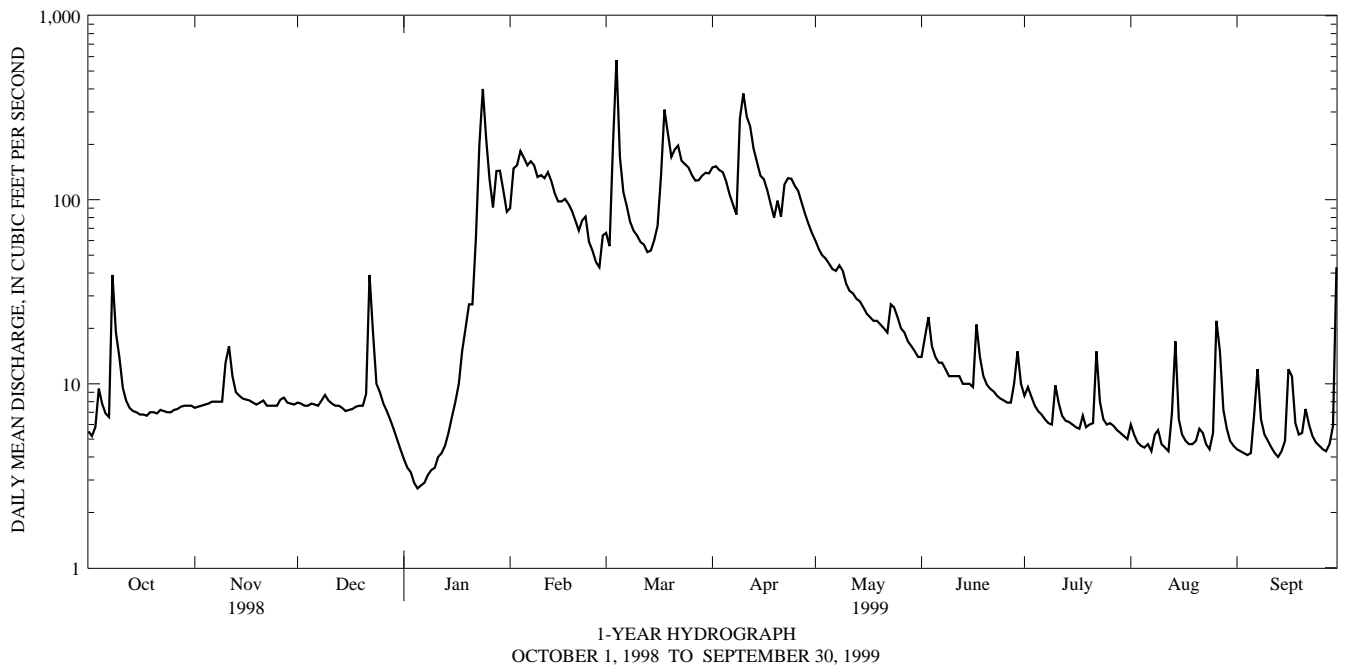
e Estimated.

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01557500 BALD EAGLE CREEK AT TYRONE, PA--Continued

SUMMARY STATISTICS	FOR 1998 CALENDAR YEAR		FOR 1999 WATER YEAR		WATER YEARS 1945 - 1999	
ANNUAL TOTAL	27430.0		16032.3		76.1	
ANNUAL MEAN	75.2		43.9		133	
HIGHEST ANNUAL MEAN					1951	
LOWEST ANNUAL MEAN					1999	
HIGHEST DAILY MEAN	728	Jan 8	574	Mar 4	2800	Jun 23 1972
LOWEST DAILY MEAN	e 4.4	Dec 31	e 2.7	Jan 5	1.4	Sep 13 1973
ANNUAL SEVEN-DAY MINIMUM	5.5	Sep 10	b 3.0	Jan 3	1.7	Sep 7 1973
INSTANTANEOUS PEAK FLOW			1180	Mar 3	c 5140	Nov 25 1950
INSTANTANEOUS PEAK STAGE			a 4.33	Mar 3	d 7.50	Nov 25 1950
INSTANTANEOUS LOW FLOW					1.4	Sep 12 1973
ANNUAL RUNOFF (CFSM)	1.70		1.00		1.73	
ANNUAL RUNOFF (INCHES)	23.14		13.52		23.44	
10 PERCENT EXCEEDS	216		137		173	
50 PERCENT EXCEEDS	19		9.0		41	
90 PERCENT EXCEEDS	6.7		4.7		7.6	

- a** Maximum gage height, 4.63 ft, Jan. 24 (backwater from ice).
- b** Computed using estimated daily discharges.
- c** From rating curve extended above 2,100 ft³/s on basis of contracted-opening measurement of peak flow.
- d** From floodmark, site and datum then in use.
- e** Estimated.



1-YEAR HYDROGRAPH
OCTOBER 1, 1998 TO SEPTEMBER 30, 1999