

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 National Geodetic Vertical Datum of 1929. 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. 26	1800	*1,580	*4.85	May 13	1200	1,170	4.31

**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	4.8	5.8	66	e16	61	36	147	126	60	26	10	5.5
2	4.7	5.8	40	e14	57	31	118	253	46	24	9.7	5.9
3	4.6	6.0	31	e16	55	79	104	199	41	22	9.3	6.0
4	4.3	5.9	25	e18	57	52	93	157	39	21	9.0	5.3
5	4.2	5.6	22	e15	56	61	86	132	41	20	8.7	4.6
6	4.1	5.1	21	e18	50	52	79	115	228	19	10	4.5
7	4.2	5.1	19	e18	48	48	74	106	193	18	8.9	4.0
8	4.2	5.1	22	e25	45	46	69	95	131	17	8.5	3.7
9	4.4	5.3	44	36	41	43	66	353	110	17	8.2	3.6
10	4.6	5.1	34	75	97	43	61	336	89	19	7.7	3.4
11	4.7	5.0	27	58	213	39	54	232	74	15	7.3	3.1
12	4.7	4.9	23	46	131	38	50	297	66	15	7.1	2.8
13	4.7	4.8	31	42	106	37	65	708	59	14	6.7	2.9
14	17	4.7	36	37	83	36	154	610	118	14	6.6	2.9
15	35	4.7	38	36	74	35	234	379	183	13	6.3	3.8
16	14	4.7	31	33	68	80	156	264	134	13	6.6	6.1
17	16	4.7	89	31	64	60	124	201	113	12	6.5	4.5
18	11	4.7	178	29	54	118	110	415	90	12	6.2	3.9
19	9.0	4.7	101	e21	49	120	103	282	75	12	6.0	3.7
20	8.2	4.7	78	e16	47	380	96	222	65	12	6.0	4.0
21	7.8	4.6	62	e18	49	350	89	179	56	11	5.2	4.0
22	7.6	4.5	52	e18	44	225	91	147	48	10	5.1	4.7
23	7.7	4.5	47	26	40	166	79	123	43	9.9	12	9.3
24	16	4.5	46	39	37	132	70	108	39	10	14	5.0
25	12	63	e39	43	35	112	69	94	38	9.9	12	4.3
26	9.7	40	e34	39	38	676	63	84	35	12	7.8	5.4
27	9.7	21	e32	39	38	636	57	74	48	12	6.8	31
28	9.1	19	e23	40	34	323	112	67	46	11	6.5	19
29	8.8	40	e21	40	---	230	110	66	33	9.9	6.7	9.0
30	7.5	71	e14	41	---	182	123	57	29	9.9	6.2	6.8
31	5.8	---	e16	49	---	153	---	61	---	10	5.9	---
TOTAL	270.1	374.5	1342	992	1771	4619	2906	6542	2370	450.6	243.5	182.7
MEAN	8.71	12.5	43.3	32.0	63.2	149	96.9	211	79.0	14.5	7.85	6.09
MAX	35	71	178	75	213	676	234	708	228	26	14	31
MIN	4.1	4.5	14	14	34	31	50	57	29	9.9	5.1	2.8
CFSM	0.20	0.28	0.98	0.73	1.43	3.38	2.20	4.79	1.79	0.33	0.18	0.14
IN.	0.23	0.32	1.13	0.84	1.49	3.90	2.45	5.52	2.00	0.38	0.21	0.15

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1945 - 2002, BY WATER YEAR (WY)

MEAN	33.0	55.4	75.0	78.7	103	164	145	109	62.8	30.4	20.4	23.2
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 2001 CALENDAR YEAR		FOR 2002 WATER YEAR		WATER YEARS 1945 - 2002	
ANNUAL TOTAL	15645.8		22063.4			
ANNUAL MEAN	42.9		60.4		74.8	
HIGHEST ANNUAL MEAN					133	1951
LOWEST ANNUAL MEAN					42.8	1999
HIGHEST DAILY MEAN	334	Apr 16	708	May 13	2800	Jun 23 1972
LOWEST DAILY MEAN	3.5	Sep 13,19	2.8	Sep 12	1.4	Sep 13 1973
ANNUAL SEVEN-DAY MINIMUM	3.9	Sep 7	3.2	Sep 8	1.7	Sep 7 1973
MAXIMUM PEAK FLOW			1580	Mar 26	a5140	Nov 25 1950
MAXIMUM PEAK STAGE			4.85	Mar 26	b7.50	Nov 25 1950
INSTANTANEOUS LOW FLOW			2.8	Sep 11-15	1.4	Sep 12 1973
ANNUAL RUNOFF (CFSM)	0.97		1.37		1.70	
ANNUAL RUNOFF (INCHES)	13.20		18.61		23.05	
10 PERCENT EXCEEDS	117		139		171	
50 PERCENT EXCEEDS	20		34		40	
90 PERCENT EXCEEDS	4.7		4.7		7.4	

a From rating curve extended above 2,100 ft³/s on basis of contracted-opening measurement of peak flow.
 b From floodmark, site and datum then in use.

