

JUNIATA RIVER BASIN

01562000 RAYSTOWN BRANCH JUNIATA RIVER AT SAXTON, PA

LOCATION.--Lat 40°12'57", long 78°15'56", Bedford County, Hydrologic Unit 02050303, on left bank 500 ft downstream from bridge on State Highway 913, 0.5 mi west of Saxton, and 1.5 mi upstream from Shoup Run.

DRAINAGE AREA.--756 mi².

PERIOD OF RECORD.--September 1911 to current year. Monthly discharge only for September 1911 published in WSP 1302.

REVISED RECORDS.--WSP 1302: 1912-13(M), 1914-15. WSP 1502: 1934, 1936.

GAGE.--Water-stage recorder. Datum of gage is 795.77 ft above sea level. Prior to Oct. 1, 1931, nonrecording gage at site 0.8 mi downstream at datum 4.82 ft lower.

REMARKS.--Records good except those for estimated daily discharges, which are poor. Several measurements of water temperature were made during the year. Satellite and landline telemetry at station.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of June 1, 1889, reached a stage of 23.0 ft at present site and datum, from floodmarks, discharge, about 71,300 ft³/s.

PEAK DISCHARGES FOR CURRENT YEAR.--Peak discharges greater than a base discharge of 7,700 ft³/s and maximum (*):

Date	Time	Discharge ft ³ /s	Gage Height (ft)	Date	Time	Discharge ft ³ /s	Gage Height (ft)
Apr. 16	2100	*8,450	*8.80	No other peak greater than base discharge.			

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	172	145	382	e250	2320	680	1530	584	293	219	97	93
2	156	139	414	e245	1920	524	1480	541	340	213	96	89
3	144	135	320	e240	1440	495	1340	490	520	206	95	92
4	138	135	259	e235	1110	494	1140	462	500	221	110	82
5	138	134	258	e230	982	549	1090	480	462	192	125	76
6	135	131	335	e225	797	633	949	396	416	246	116	74
7	129	129	243	e220	816	491	1020	366	409	245	137	71
8	129	129	255	e215	947	493	1530	343	475	243	123	68
9	133	134	259	e210	882	582	1820	336	431	200	104	66
10	138	248	209	e205	1290	752	5030	333	360	239	94	64
11	131	351	242	e205	2070	714	4240	324	321	197	88	65
12	125	376	212	e200	1710	850	4110	305	289	161	85	63
13	119	297	192	e200	1340	1460	3330	293	272	143	90	61
14	122	227	185	e195	1040	3200	2620	277	247	133	99	65
15	123	206	205	e195	1070	3310	2100	266	231	125	95	66
16	122	196	314	e190	1960	2680	5050	255	228	120	93	63
17	130	188	328	e190	2620	2670	7140	249	281	116	97	63
18	221	180	609	e190	2340	2420	4440	245	471	115	90	65
19	293	173	827	e210	1750	2090	3250	253	325	113	84	65
20	466	166	639	e300	1320	1700	2500	256	261	108	88	70
21	358	e155	e430	780	1200	1690	1970	295	239	105	90	76
22	270	e150	e380	517	1040	3580	1740	392	235	101	86	69
23	231	e140	e350	395	838	3120	1440	576	348	98	89	68
24	207	e135	e320	e350	727	2470	1220	624	855	93	93	84
25	192	e130	e320	e320	666	2090	1040	411	589	90	91	143
26	182	e180	e340	e310	702	1680	945	404	389	90	92	134
27	173	314	e320	e300	782	1480	796	464	315	90	118	127
28	168	584	e310	e280	599	1190	779	452	298	92	117	117
29	158	395	e290	e270	---	1180	678	395	313	113	99	104
30	153	365	e280	e270	---	1260	603	357	258	106	87	93
31	147	---	e260	1040	---	1910	---	315	---	102	93	---
TOTAL	5503	6367	10287	9182	36278	48437	66920	11739	10971	4635	3061	2436
MEAN	178	212	332	296	1296	1562	2231	379	366	150	98.7	81.2
MAX	466	584	827	1040	2620	3580	7140	624	855	246	137	143
MIN	119	129	185	190	599	491	603	245	228	90	84	61
CFSM	.23	.28	.44	.39	1.71	2.07	2.95	.50	.48	.20	.13	.11
IN.	.27	.31	.51	.45	1.79	2.38	3.29	.58	.54	.23	.15	.12

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1912 - 2001, BY WATER YEAR (WY)

MEAN	422	607	856	1013	1435	2112	1746	1224	731	400	265	271
MAX	3561	2897	3254	3477	4817	7669	5811	3425	4624	2847	851	2356
(WY)	1977	1998	1973	1937	1979	1936	1993	1924	1972	1989	1915	1996
MIN	59.5	65.3	93.6	132	138	459	338	211	134	66.6	55.1	57.6
(WY)	1964	1931	1931	1981	1934	1990	1915	1926	1965	1966	1966	1963

e Estimated.

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SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1912 - 2001	
ANNUAL TOTAL	254031		215816			
ANNUAL MEAN	694		591		921	
HIGHEST ANNUAL MEAN					1575	1996
LOWEST ANNUAL MEAN					402	1969
HIGHEST DAILY MEAN	8660	Apr 23	7140	Apr 17	58300	Mar 18 1936
LOWEST DAILY MEAN	112	Sep 23,24	61	Sep 13	39	Sep 12 1966
ANNUAL SEVEN-DAY MINIMUM	115	Sep 19	64	Sep 11	41	Sep 7 1966
MAXIMUM PEAK FLOW			8450	Apr 16	a 80500	Mar 18 1936
MAXIMUM PEAK STAGE			8.80	Apr 16	b 24.54	Mar 18 1936
INSTANTANEOUS LOW FLOW			61	Sep 10 c	39	Sep 6 1966
ANNUAL RUNOFF (CFSM)	.92		.78		1.22	
ANNUAL RUNOFF (INCHES)	12.50		10.62		16.55	
10 PERCENT EXCEEDS	1700		1590		2190	
50 PERCENT EXCEEDS	320		259		420	
90 PERCENT EXCEEDS	138		92		118	

- a** From rating curve extended above 21,000 ft³/s on basis of slope-area measurement of peak flow.
- b** From floodmark in gage.
- c** Also Sept. 11-17, 19.

