

**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 mi<sup>2</sup>.

**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 ft<sup>3</sup>/s.

**PEAK DISCHARGES FOR CURRENT YEAR.**--Peak discharges greater than a base discharge of 7,700 ft<sup>3</sup>/s and maximum (\*):

Date	Time	Discharge ft <sup>3</sup> /s	Gage Height (ft)	Date	Time	Discharge ft <sup>3</sup> /s	Gage Height (ft)
Apr. 10	1345	*8,900	*9.08	No other peak greater than base discharge.			

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	109	107	110	e86	910	e260	1090	950	203	182	100	107
2	105	107	111	e85	839	e300	1080	800	201	210	99	98
3	104	107	112	e87	1030	e350	987	756	257	254	129	93
4	121	107	111	e103	960	e1800	971	655	288	217	137	89
5	125	107	109	e104	881	2250	1820	613	266	161	112	87
6	135	109	109	e101	876	1620	2090	610	217	138	97	104
7	129	111	109	e103	807	1350	1660	537	195	125	88	155
8	148	112	114	e110	836	1100	1430	863	181	115	84	384
9	164	112	125	e116	930	931	1770	1060	171	107	88	285
10	185	112	123	e120	795	871	7220	749	162	105	86	189
11	215	117	119	e122	723	793	5770	633	157	104	84	146
12	168	114	118	e126	639	715	5810	559	149	101	82	125
13	149	112	115	e140	605	694	4710	523	148	99	80	113
14	137	112	112	e150	562	731	3520	506	156	99	89	107
15	126	114	112	e172	502	820	2680	488	154	98	82	103
16	122	116	108	e180	470	851	2370	436	142	95	82	119
17	118	114	107	e260	455	1090	2020	456	170	94	82	138
18	118	112	107	e350	423	3720	1560	432	219	91	84	148
19	115	112	107	e410	399	6510	1300	359	223	90	79	162
20	112	112	107	e430	367	4150	1290	323	214	100	77	138
21	110	112	107	e460	342	3250	1630	318	175	95	80	125
22	107	112	109	e450	309	4950	2240	298	157	95	80	117
23	107	112	107	e510	e240	4010	3160	307	147	95	82	113
24	107	111	e90	e3100	e220	2990	3460	338	139	97	84	110
25	107	110	e86	4660	e210	2420	2920	357	133	99	87	106
26	105	111	e85	2390	e230	2030	2380	332	128	94	138	102
27	105	109	e84	1610	e230	1710	1910	300	122	94	315	99
28	107	107	e84	1330	e240	1460	1520	267	134	89	398	99
29	109	108	e87	2060	---	1340	1260	243	157	89	217	100
30	107	107	e88	1720	---	1210	1080	226	136	89	152	142
31	107	---	e94	1200	---	1120	---	213	---	90	122	---
TOTAL	3883	3325	3266	22845	16030	57396	72708	15507	5301	3611	3596	4003
MEAN	125	111	105	737	572	1851	2424	500	177	116	116	133
MAX	215	117	125	4660	1030	6510	7220	1060	288	254	398	384
MIN	104	107	84	85	210	260	971	213	122	89	77	87
CFSM	.17	.15	.14	.97	.76	2.45	3.21	.66	.23	.15	.15	.18
IN.	.19	.16	.16	1.12	.79	2.82	3.58	.76	.26	.18	.18	.20

**STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1912 - 1999, BY WATER YEAR (WY)**

MEAN	427	614	865	1029	1439	2126	1740	1234	733	404	266	275
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

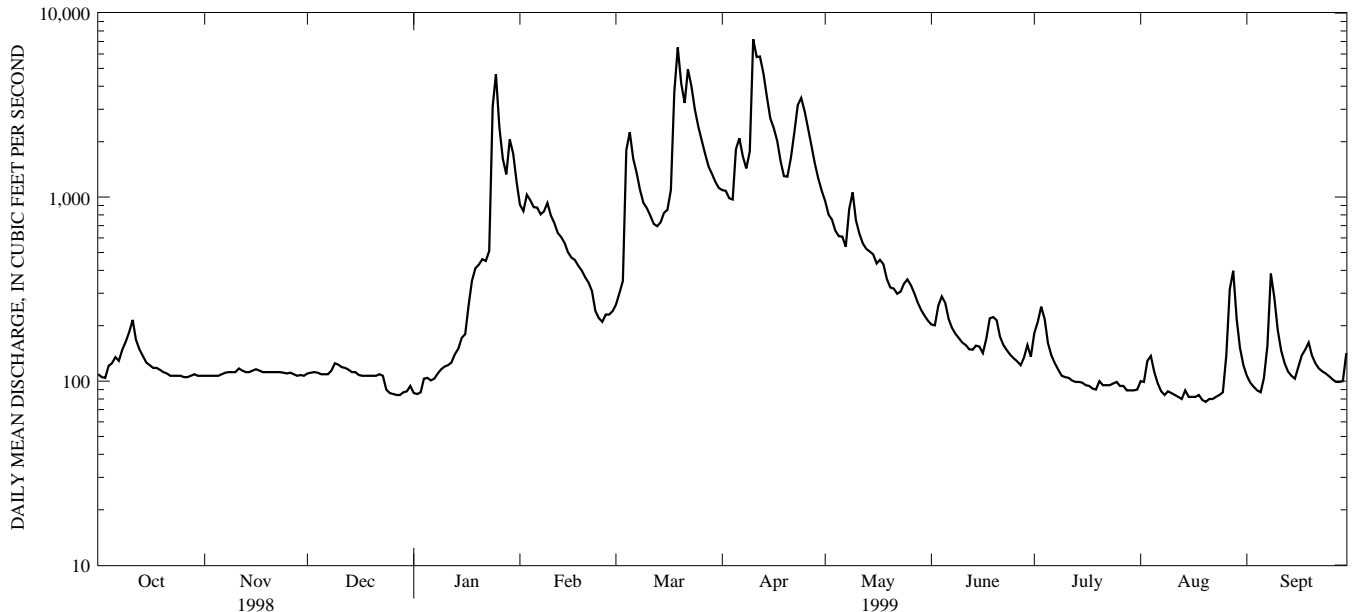
e Estimated.

JUNIATA RIVER BASIN

01562000 RAYSTOWN BRANCH JUNIATA RIVER AT SAXTON, PA--Continued

SUMMARY STATISTICS	FOR 1998 CALENDAR YEAR		FOR 1999 WATER YEAR		WATER YEARS 1912 - 1999	
ANNUAL TOTAL	411459		211471			
ANNUAL MEAN	1127		579		927	
HIGHEST ANNUAL MEAN					1575	1996
LOWEST ANNUAL MEAN					402	1969
HIGHEST DAILY MEAN	9370	Apr 20	7220	Apr 10	58300	Mar 18 1936
LOWEST DAILY MEAN	e84	Dec 27,28	77	Aug 20	39	Sep 12 1966
ANNUAL SEVEN-DAY MINIMUM	a86	Dec 24	81	Aug 16	41	Sep 7 1966
INSTANTANEOUS PEAK FLOW			8900	Apr 10	b80500	Mar 18 1936
INSTANTANEOUS PEAK STAGE			9.08	Apr 10	c24.54	Mar 18 1936
INSTANTANEOUS LOW FLOW					39	Sep 6 1966
ANNUAL RUNOFF (CFSM)	1.49		.77		1.23	
ANNUAL RUNOFF (INCHES)	20.25		10.41		16.65	
10 PERCENT EXCEEDS	3550		1620		2200	
50 PERCENT EXCEEDS	347		146		425	
90 PERCENT EXCEEDS	107		91		118	

- a Computed using estimated daily discharges.
- b From rating curve extended above 21,000 ft<sup>3</sup>/s on basis of slope-area measurement of peak flow.
- c From floodmark in gage.
- e Estimated.



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