

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. 23	0115	*11,300	*10.44	No other peak greater than base discharge.			

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	159	104	573	e330	e200	2060	762	979	1690	324	502	168
2	248	121	474	e330	e200	1840	685	894	1340	284	396	193
3	200	652	415	324	e195	1510	700	926	1080	264	528	182
4	172	814	379	353	e195	1270	1070	788	845	273	463	166
5	171	471	352	308	e190	1040	1680	680	776	294	559	159
6	190	351	337	298	e190	953	1300	677	1420	299	387	145
7	184	297	320	274	e190	788	1120	565	2610	254	974	130
8	162	261	299	247	e190	767	1120	513	1740	223	1120	121
9	142	237	274	238	e185	650	1160	475	1280	205	716	116
10	189	220	263	246	e185	605	1110	453	1020	207	528	113
11	294	208	283	290	e187	670	927	426	826	207	421	115
12	463	200	331	334	e190	1390	969	420	738	201	344	119
13	318	190	313	339	e500	1800	1040	365	734	187	297	154
14	311	180	525	303	1060	1290	913	e348	921	185	268	180
15	251	167	2270	e250	2820	1180	956	e329	866	271	244	179
16	261	163	1740	e260	2180	1000	853	e310	1320	341	225	155
17	216	157	1240	e280	1680	1130	876	e289	1390	341	201	134
18	177	150	1040	e240	1490	1110	970	e278	1060	390	189	124
19	157	149	783	e235	1920	854	1560	e399	860	277	184	118
20	146	143	679	e230	3200	774	1590	680	769	259	177	118
21	143	149	684	e240	2370	1230	1740	1120	584	264	175	117
22	139	149	723	e235	2170	4190	6160	948	573	243	161	113
23	137	142	587	e220	2080	3550	8660	1680	647	206	149	112
24	130	142	497	e230	2010	2770	4910	3270	488	189	167	112
25	123	165	400	e240	1920	2310	3440	3310	412	196	176	115
26	117	413	382	e220	2110	1880	2580	1980	365	204	176	221
27	115	1970	e370	e210	1880	1520	2020	1410	354	202	169	410
28	115	1580	e360	e200	2620	1400	1630	1460	499	284	166	431
29	110	984	e350	e195	2590	1190	1360	3560	599	517	244	257
30	108	749	e340	e195	---	1040	1160	3170	379	391	215	200
31	105	---	e335	e195	---	905	---	2330	---	330	174	---
TOTAL	5753	11678	17918	8089	36897	44666	55021	35032	28185	8312	10695	4977
MEAN	186	389	578	261	1272	1441	1834	1130	940	268	345	166
MAX	463	1970	2270	353	3200	4190	8660	3560	2610	517	1120	431
MIN	105	104	263	195	185	605	685	278	354	185	149	112
CFSM	.25	.51	.76	.35	1.68	1.91	2.43	1.49	1.24	.35	.46	.22
IN.	.28	.57	.88	.40	1.82	2.20	2.71	1.72	1.39	.41	.53	.24

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1912 - 2000, BY WATER YEAR (WY)

MEAN	425	612	862	1021	1437	2118	1741	1233	736	403	267	274
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

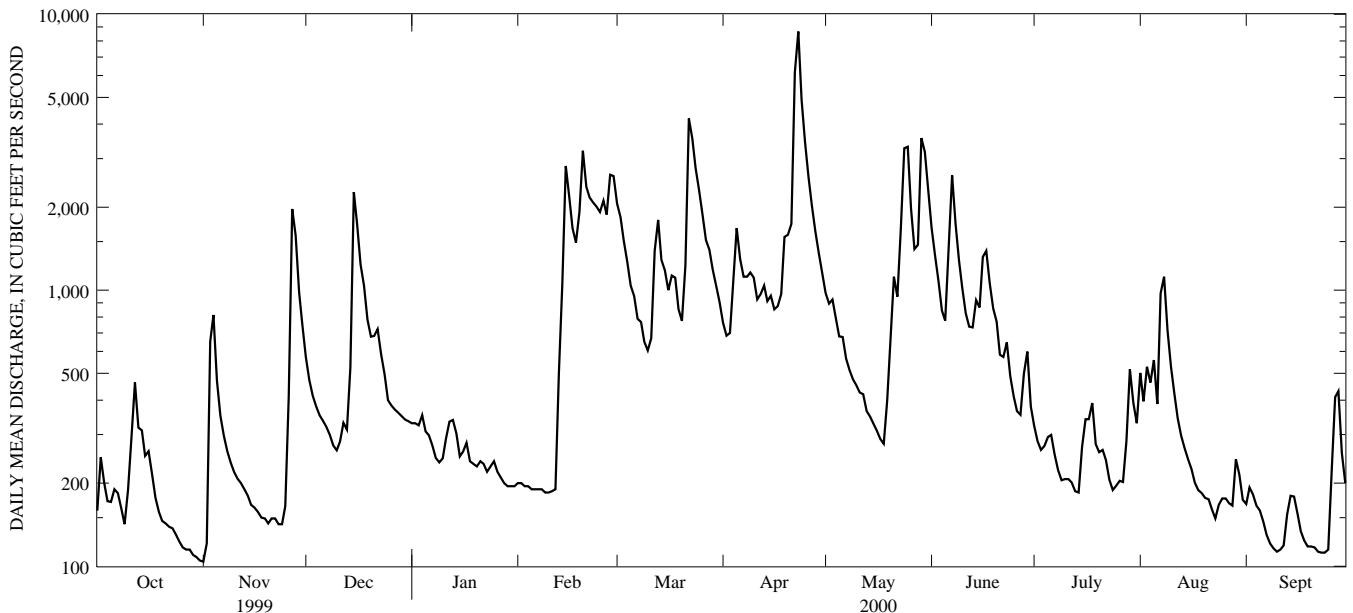
e Estimated.

JUNIATA RIVER BASIN

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

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1912 - 2000	
ANNUAL TOTAL	236346		267223		924	
ANNUAL MEAN	648		730		1575	
HIGHEST ANNUAL MEAN					1996	
LOWEST ANNUAL MEAN					1969	
HIGHEST DAILY MEAN	7220	Apr 10	8660	Apr 23	58300	Mar 18 1936
LOWEST DAILY MEAN	77	Aug 20	104	Nov 1	39	Sep 12 1966
ANNUAL SEVEN-DAY MINIMUM	81	Aug 16	111	Oct 26	41	Sep 7 1966
INSTANTANEOUS PEAK FLOW			11300	Apr 23	a 80500	Mar 18 1936
INSTANTANEOUS PEAK STAGE			10.44	Apr 23	b 24.54	Mar 18 1936
INSTANTANEOUS LOW FLOW			104	Oct 31-Nov 2	39	Sep 6 1966
ANNUAL RUNOFF (CFSM)	.86		.97		1.22	
ANNUAL RUNOFF (INCHES)	11.63		13.15		16.61	
10 PERCENT EXCEEDS	1710		1760		2200	
50 PERCENT EXCEEDS	248		346		424	
90 PERCENT EXCEEDS	95		149		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.



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