01562000 RAYSTOWN BRANCH JUNIATA RIVER AT SAXTON, PA

Lower Susquehanna Basin
Raystown Subbasin

LOCATION.--Lat 40°12′57″, long 78°15′56″ referenced to North American Datum of 1927, Bedford County, PA, 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^2.

SURFACE-WATER RECORDS

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 National Geodetic Vertical Datum of 1929. Prior to Oct 1, 1931, non-recording gage at site 0.8 mi downstream at datum 4.82 ft lower. Satellite and landline telemetry at station.

COOPERATION.--Station established and maintained by the U.S. Geological Survey. Funding for this station is provided by the U.S. Army Corps of Engineers, Baltimore District, the Pennsylvania Department of Environmental Protection and the U.S. Geological Survey through the National Streamflow Information Program

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

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Jun 1, 1889, reached a stage of 23.0 ft at present site and datum, from floodmarks, discharge, about 71,300 ft^3/s.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 7,700 ft^3/s and (or) maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)
Oct 31	0200	*15,100	*12.12
Jan 31	1900	10,800	9.97

Minimum discharge, 100 ft^3/s, Sept. 20, 30, gage height, 1.34 ft.

Suggested citation: U.S. Geological Survey, 2014, Water-resources data for the United States, Water Year 2013: U.S. Geological Survey Water-Data Report WDR-US-2013, site 01562000, accessed at http://wdr.water.usgs.gov/wy2013/pdfs/01562000.2013.pdf

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DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2012 TO SEPTEMBER 2013
DAILY MEAN VALUES
[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	306	4,310	227	709	7,350	1,390	1,850	819	342	393	155	201
2	301	2,400	225	721	3,680	1,110	2,020	658	317	461	148	190
3	313	1,690	221	e700	e2,500	1,150	1,860	577	301	546	143	203
4	376	1,210	221	e680	e2,000	883	1,680	543	287	410	142	194
5	326	956	222	651	1,670	743	1,450	516	274	355	135	187
6	267	765	220	607	1,430	719	1,210	497	274	363	132	166
7	231	651	222	607	1,190	774	1,090	491	311	384	135	142
8	209	579	267	636	e980	930	1,090	2,220	374	447	181	132
9	195	523	335	605	e890	855	1,070	4,370	361	667	177	126
10	184	473	509	624	e800	842	1,050	3,120	350	434	566	124
11	174	436	711	837	779	907	1,030	2,940	574	444	609	122
12	165	410	1,010	1,630	1,190	1,360	1,390	3,460	613	456	324	121
13	156	425	767	2,750	1,180	3,310	2,530	2,660	515	375	266	119
14	150	432	672	3,250	988	2,790	1,960	2,010	639	338	253	116
15	147	416	604	3,200	1,100	2,080	1,700	1,620	585	312	266	114
16	143	372	556	2,800	917	1,810	1,530	1,530	445	274	221	116
17	138	350	525	2,670	793	1,660	1,490	1,230	390	247	192	115
18	136	332	624	2,190	787	1,350	1,710	1,050	354	227	177	110
19	166	316	904	1,960	844	1,280	1,410	939	373	218	169	104
20	163	305	771	1,760	689	1,770	2,100	750	628	208	168	102
21	177	302	2,410	1,570	e620	1,760	1,900	691	399	200	194	113
22	176	292	3,650	1,350	e510	1,550	1,550	752	326	202	194	140
23	160	281	2,330	e950	e520	1,260	1,410	669	293	220	173	126
24	154	269	1,740	e730	554	1,240	1,360	624	270	212	159	138
25	147	265	1,360	e610	531	1,100	1,290	560	253	249	150	142
26	146	258	1,200	e600	510	1,230	1,240	461	261	205	145	126
27	143	254	1,240	e650	676	1,500	933	408	444	187	145	114
28	145	248	1,170	e700	1,490	1,650	809	399	775	179	145	109
29	539	239	858	830	---	1,610	795	414	671	173	152	106
30	9,350	232	805	1,800	---	1,540	818	467	489	165	214	101
31	11,300	---	740	7,540	---	1,530	---	387	---	162	248	---
Total	26,683	19,991	27,316	46,917	37,168	43,683	43,325	37,832	12,488	9,713	6,478	4,019
Mean	861	666	881	1,513	1,327	1,409	1,444	1,220	416	313	209	134
Max	11,300	4,310	3,650	7,540	7,350	3,310	2,530	4,370	775	667	609	203
Min	136	232	220	600	510	719	795	387	253	162	132	101
Cfsm	1.14	0.88	1.17	2.00	1.76	1.86	1.91	1.61	0.55	0.41	0.28	0.18
In.	1.31	0.98	1.34	2.31	1.83	2.15	2.13	1.86	0.61	0.48	0.32	0.20

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1912 - 2013, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	429	625	908	1,045	1,381	2,115	1,729	1,259	725	385	262	329
Max	3,561	2,897	3,254	3,477	4,817	7,669	5,811	3,425	4,624	2,847	851	4,253
(WY)	(1977)	(1998)	(1973)	(1937)	(1979)	(1936)	(1993)	(1924)	(1972)	(1989)	(1915)	(2004)
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)

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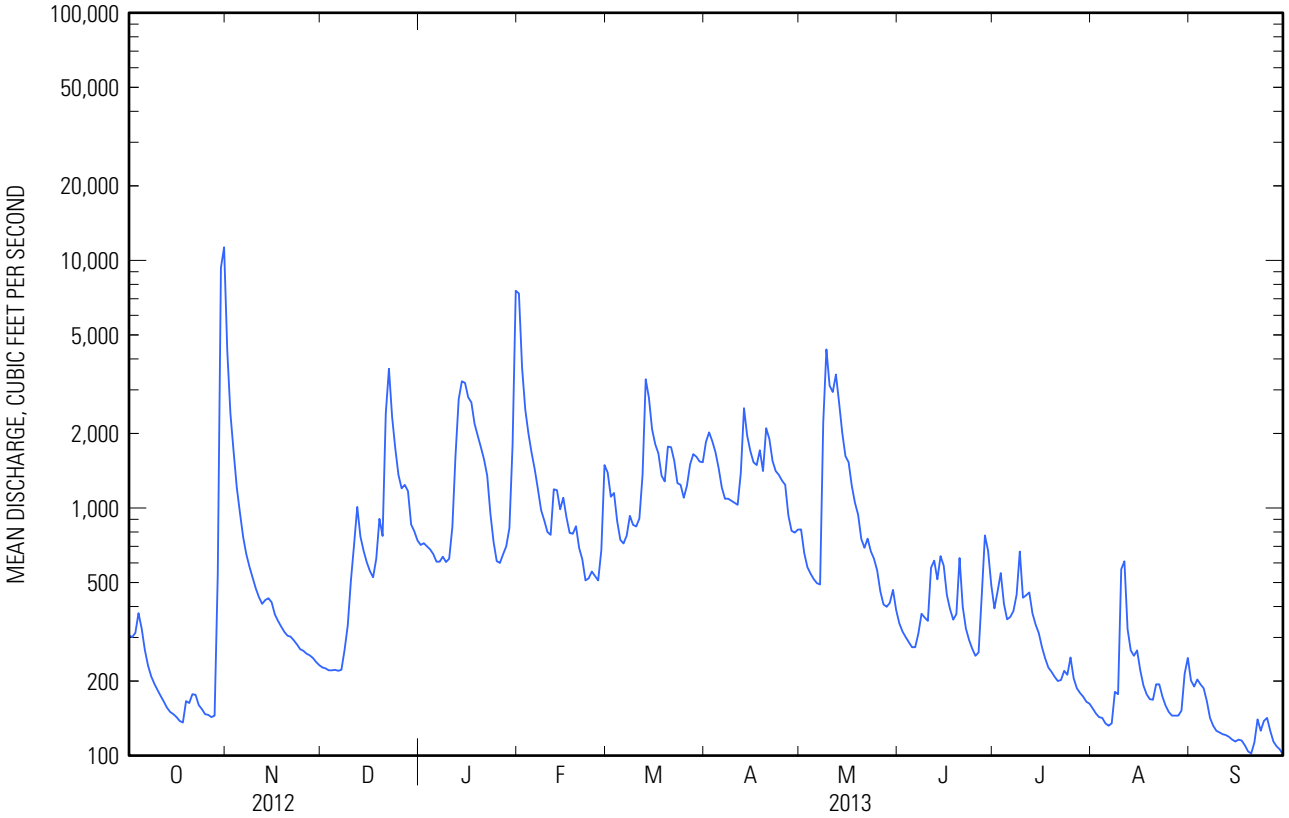
SUMMARY STATISTICS

	Calendar Year 2012		Water Year 2013		Water Years 1912 - 2013	
Annual total	300,042		315,613			
Annual mean	820		865		930	
Highest annual mean					1,637	2004
Lowest annual mean					402	1969
Highest daily mean	11,300	Oct 31	11,300	Oct 31	58,300	Mar 18, 1936
Lowest daily mean	102	Sep 17	101	Sep 30	39	Sep 12, 1966
Annual seven-day minimum	113	Sep 11	111	Sep 15	41	Sep 7, 1966
Maximum peak flow			15,100	Oct 31	[a]80,500	Mar 18, 1936
Maximum peak stage			12.12	Oct 31	[b]24.54	Mar 18, 1936
Instantaneous low flow			100	Sep 20[c]	39	Sep 6, 1966[d]
Annual runoff (cfsm)	1.08		1.14		1.23	
Annual runoff (inches)	14.76		15.53		16.72	
10 percent exceeds	1,710		1,830		2,200	
50 percent exceeds	539		523		432	
90 percent exceeds	152		145		118	

[a] From rating curve extended above 28,000 ft³/s on basis of slope-area measurement of peak flow at gage height 24.54 ft.
[b] From floodmark in gage.
[c] Also Sep 30.
[d] Also Sep 7, 12, 1966.