

**JUNIATA RIVER BASIN**

**01556000 FRANKSTOWN BRANCH JUNIATA RIVER AT WILLIAMSBURG, PA**

**LOCATION.**--Lat 40°27'47", long 78°12'00", Blair County, Hydrologic Unit 02050302, on left bank 10 ft downstream from highway bridge on SR 2015 at Williamsburg, and 2.5 mi upstream from Clover Creek.

**DRAINAGE AREA.**--291 mi<sup>2</sup>.

**PERIOD OF RECORD.**--October 1916 to current year.

**REVISED RECORDS.**--WSP 756: Drainage area. WDR PA-71-1: 1954(M), 1960(M), 1961(M). WDR PA-77-2: 1936-39(M).

**GAGE.**--Water-stage recorder. Datum of gage is 831.78 ft above sea level (Penn Central Railroad bench mark). Prior to Aug. 14, 1928, nonrecording gage at same site and datum.

**REMARKS.**--Records good except those for estimated daily discharges, which are poor. Some regulation at low flow by mill upstream. 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 19.1 ft, from floodmark, discharge, about 35,500 ft<sup>3</sup>/s.

**PEAK DISCHARGES FOR CURRENT YEAR.**--Peak discharges greater than a base discharge of 4,200 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	0320	*4,430	*9.83	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	79	79	77	e58	468	240	582	384	120	108	120	83
2	77	79	76	e56	687	205	587	355	136	104	92	80
3	76	80	76	e54	621	222	542	333	246	103	74	77
4	116	79	77	e64	599	1580	534	316	148	101	69	75
5	104	78	76	e56	652	751	2290	298	128	99	65	72
6	95	78	76	e54	553	e500	1270	280	120	99	e64	81
7	89	77	76	e58	513	e390	949	277	116	98	e70	219
8	234	76	78	e66	529	e340	736	289	112	97	e66	119
9	236	76	84	e76	455	e300	1470	272	107	90	e80	98
10	175	88	79	e88	453	e270	3460	243	101	94	e94	88
11	127	109	77	e100	453	e260	1950	225	101	100	e80	81
12	108	100	75	e115	384	e240	1930	199	98	83	e62	76
13	102	94	75	e130	366	e270	1500	212	96	80	88	75
14	100	90	76	e145	338	e300	1160	220	95	79	487	75
15	100	79	75	e130	313	e320	921	190	97	77	123	77
16	99	79	75	e115	294	e370	926	173	94	74	e110	126
17	99	80	75	e110	291	796	777	165	220	72	e115	160
18	97	81	75	e130	277	2170	685	160	194	72	e120	102
19	95	78	75	e165	239	1760	602	159	129	73	e110	100
20	95	79	75	e170	253	1120	708	153	111	70	e100	99
21	89	79	76	e145	239	1280	645	143	106	70	e115	103
22	85	78	94	e130	202	1760	1370	139	102	100	e130	96
23	84	78	94	e260	162	1160	1270	266	97	93	e120	82
24	83	77	e76	1920	172	934	1330	220	93	84	e100	77
25	82	76	e66	1280	158	840	964	200	90	92	78	74
26	82	79	e64	802	160	733	792	166	101	77	398	70
27	81	79	e62	624	153	668	675	150	98	71	446	68
28	81	77	e68	930	192	624	575	140	178	68	179	67
29	81	77	e62	1250	---	609	500	132	185	69	120	73
30	81	77	e61	781	---	598	429	126	132	69	102	244
31	80	---	e60	586	---	574	---	122	---	65	94	---
TOTAL	3212	2436	2311	10648	10176	22184	32129	6707	3751	2631	4071	2917
MEAN	104	81.2	74.5	343	363	716	1071	216	125	84.9	131	97.2
MAX	236	109	94	1920	687	2170	3460	384	246	108	487	244
MIN	76	76	60	54	153	205	429	122	90	65	62	67
CFSM	.36	.28	.26	1.18	1.25	2.46	3.68	.74	.43	.29	.45	.33
IN.	.41	.31	.30	1.36	1.30	2.84	4.11	.86	.48	.34	.52	.37

**STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1917 - 1999, BY WATER YEAR (WY)**

MEAN	182	282	376	423	556	901	771	522	306	187	144	142
MAX	969	1298	1268	1446	1340	3561	2194	1314	1743	824	738	964
(WY)	1977	1998	1973	1937	1971	1936	1993	1924	1972	1989	1956	1996
MIN	45.9	48.0	52.4	61.3	86.0	263	215	127	83.0	49.7	46.9	45.9
(WY)	1931	1931	1931	1918	1934	1990	1925	1934	1965	1965	1966	1932

e Estimated.

JUNIATA RIVER BASIN

01556000 FRANKSTOWN BRANCH JUNIATA RIVER AT WILLIAMSBURG, PA--Continued

SUMMARY STATISTICS	FOR 1998 CALENDAR YEAR		FOR 1999 WATER YEAR		WATER YEARS 1917 - 1999	
ANNUAL TOTAL	168315		103173			
ANNUAL MEAN	461		283		399	
HIGHEST ANNUAL MEAN					670	1972
LOWEST ANNUAL MEAN					200	1969
HIGHEST DAILY MEAN	3320	Apr 27	3460	Apr 10	25000	Mar 18 1936
LOWEST DAILY MEAN	e60	Dec 31	e54	Jan 3,6	31	Dec 24 1930
ANNUAL SEVEN-DAY MINIMUM	a63	Dec 25	a57	Jan 1	32	Dec 19 1930
INSTANTANEOUS PEAK FLOW			4430	Apr 10	bc30000	Mar 18 1936
INSTANTANEOUS PEAK STAGE			9.83	Apr 10	19.35	Jan 19 1996
INSTANTANEOUS LOW FLOW					13	Jul 24 1934
ANNUAL RUNOFF (CFSM)	1.58		.97		1.37	
ANNUAL RUNOFF (INCHES)	21.52		13.19		18.61	
10 PERCENT EXCEEDS	1310		718		890	
50 PERCENT EXCEEDS	175		107		206	
90 PERCENT EXCEEDS	78		74		72	

- a Computed using estimated daily discharges.
- b From rating curve extended above 14,000 ft<sup>3</sup>/s on basis of slope-area measurement of peak flow.
- c Gage height 18.58 ft, from floodmark in gage shelter.
- e Estimated.

