

**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. 16	1230	*4,150	*9.55	(No peaks above 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	77	158	222	e125	576	291	599	290	195	156	71	106
2	76	140	184	e120	450	286	588	243	678	206	67	73
3	79	114	161	e115	381	247	520	235	441	136	71	64
4	80	112	148	e110	323	247	502	222	362	121	225	63
5	92	111	162	e110	296	275	462	210	305	118	180	61
6	131	124	139	e110	304	249	562	197	265	118	92	54
7	109	143	139	e110	341	241	649	185	250	105	78	57
8	e88	123	142	e110	337	259	626	178	223	131	73	58
9	e76	97	137	e98	367	305	733	191	197	117	69	56
10	e82	268	121	e96	767	304	916	175	177	103	67	56
11	103	210	132	e95	693	293	861	166	163	101	80	58
12	93	146	136	e95	533	338	845	161	154	91	80	55
13	80	130	120	e96	449	1170	720	158	148	87	72	54
14	80	124	129	e97	421	1510	654	149	137	84	67	57
15	78	119	140	e98	982	1050	607	145	130	81	65	61
16	77	113	144	e99	997	935	3080	140	134	79	65	57
17	100	112	719	e100	1030	1170	2310	137	183	81	106	57
18	828	109	505	e105	740	921	1470	139	129	79	74	57
19	326	105	341	131	593	743	1040	137	116	77	67	55
20	215	103	277	188	516	640	823	132	111	74	140	76
21	179	103	230	152	462	831	748	144	137	71	86	97
22	151	101	240	129	370	1260	634	157	277	68	74	72
23	136	98	184	124	345	862	552	348	652	67	67	63
24	127	97	224	136	313	748	488	177	348	67	69	69
25	123	98	178	135	297	659	429	150	217	67	66	183
26	116	302	172	117	343	570	392	196	175	170	66	105
27	110	320	177	127	296	505	365	912	155	97	92	81
28	106	231	158	120	300	456	341	419	140	78	99	72
29	103	214	144	110	---	442	312	290	129	72	79	68
30	116	269	e140	325	---	780	297	236	138	70	70	65
31	167	---	e130	820	---	642	---	197	---	72	70	---
TOTAL	4304	4494	6175	4503	13822	19229	23125	6816	6866	3044	2647	2110
MEAN	139	150	199	145	494	620	771	220	229	98.2	85.4	70.3
MAX	828	320	719	820	1030	1510	3080	912	678	206	225	183
MIN	76	97	120	95	296	241	297	132	111	67	65	54
CFSM	.48	.51	.68	.50	1.70	2.13	2.65	.76	.79	.34	.29	.24
IN.	.55	.57	.79	.58	1.77	2.46	2.96	.87	.88	.39	.34	.27

**STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1917 - 2001, BY WATER YEAR (WY)**

MEAN	181	280	373	416	554	893	770	517	305	185	143	141
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 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1917 - 2001	
ANNUAL TOTAL	101084		97135			
ANNUAL MEAN	276		266		396	
HIGHEST ANNUAL MEAN					670	1972
LOWEST ANNUAL MEAN					200	1969
HIGHEST DAILY MEAN	2320	Apr 22	3080	Apr 16	25000	Mar 18 1936
LOWEST DAILY MEAN	71	Sep 8-10	54	Sep 6,13	31	Dec 24 1930
ANNUAL SEVEN-DAY MINIMUM	74	Sep 4	56	Sep 6	32	Dec 19 1930
MAXIMUM PEAK FLOW			4150	Apr 16	ab30000	Mar 18 1936
MAXIMUM PEAK STAGE			9.55	Apr 16	19.35	Jan 19 1996
INSTANTANEOUS LOW FLOW			50	Sep 6	13	Jul 24 1934
ANNUAL RUNOFF (CFSM)	.95		.91		1.36	
ANNUAL RUNOFF (INCHES)	12.92		12.42		18.47	
10 PERCENT EXCEEDS	624		653		879	
50 PERCENT EXCEEDS	158		140		204	
90 PERCENT EXCEEDS	87		70		72	

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

