

**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 1015 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)
June 15	2145	*2,780	*8.00	(No peaks above 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	146	69	251	161	e105	737	293	385	420	151	148	85
2	105	135	224	154	e103	709	276	379	339	142	242	86
3	91	802	204	162	e98	569	284	335	289	139	133	93
4	106	255	191	186	e100	485	631	303	248	177	391	84
5	105	186	179	189	e102	434	482	281	273	146	159	78
6	89	158	177	156	e100	387	416	265	778	128	188	73
7	82	142	163	148	e98	341	390	247	468	121	415	72
8	78	131	149	145	e96	331	410	232	351	114	267	71
9	77	123	142	142	e94	312	474	221	301	108	191	71
10	199	118	146	154	e90	303	400	214	262	125	158	71
11	190	112	168	207	e100	324	375	205	232	137	137	92
12	130	106	143	178	e180	497	489	193	221	115	125	92
13	108	102	145	168	220	368	413	195	246	104	115	148
14	172	101	620	153	1250	334	399	191	319	104	110	106
15	133	98	806	139	1180	318	388	176	735	114	104	93
16	107	96	485	156	710	314	371	184	777	115	102	94
17	98	94	388	124	621	451	381	180	439	107	99	87
18	93	90	329	115	508	353	728	176	348	102	99	80
19	86	88	286	141	603	319	749	464	391	101	99	77
20	83	89	283	151	535	311	664	473	280	101	96	79
21	81	98	332	131	494	805	1530	319	308	98	85	77
22	e80	92	269	126	529	1290	2320	282	675	95	83	73
23	e79	90	240	146	585	888	2020	339	327	93	84	76
24	e78	88	e200	143	648	735	1420	1180	268	91	113	90
25	e76	112	e180	135	966	643	988	634	240	95	111	92
26	74	997	e190	128	1040	557	765	445	234	90	92	121
27	71	1270	198	113	847	483	647	402	207	85	85	118
28	70	536	186	e105	1260	453	551	441	201	85	87	91
29	70	373	177	e102	829	416	479	824	181	146	86	83
30	70	300	171	e102	---	366	425	538	165	109	84	77
31	69	---	169	e105	---	327	---	465	---	106	84	---
TOTAL	3096	7051	7791	4465	14091	15160	20158	11168	10523	3544	4372	2630
MEAN	99.9	235	251	144	486	489	672	360	351	114	141	87.7
MAX	199	1270	806	207	1260	1290	2320	1180	778	177	415	148
MIN	69	69	142	102	90	303	276	176	165	85	83	71
CFSM	.34	.81	.86	.49	1.67	1.68	2.31	1.24	1.21	.39	.48	.30
IN.	.40	.90	1.00	.57	1.80	1.94	2.58	1.43	1.35	.45	.56	.34

**STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1917 - 2000, BY WATER YEAR (WY)**

MEAN	181	282	375	420	555	896	770	520	306	186	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.

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SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1917 - 2000	
ANNUAL TOTAL	113152		104049			
ANNUAL MEAN	310		284		397	
HIGHEST ANNUAL MEAN					670	1972
LOWEST ANNUAL MEAN					200	1969
HIGHEST DAILY MEAN	3460	Apr 10	2320	Apr 22	25000	Mar 18 1936
LOWEST DAILY MEAN	e54	Jan 3,6	69	Oct 31b	31	Dec 24 1930
ANNUAL SEVEN-DAY MINIMUM	a57	Jan 1	70	Oct 26	32	Dec 19 1930
INSTANTANEOUS PEAK FLOW			2780	Jun 15	cd30000	Mar 18 1936
INSTANTANEOUS PEAK STAGE			8.00	Jun 15	19.35	Jan 19 1996
INSTANTANEOUS LOW FLOW			66	Oct 31b	13	Jul 24 1934
ANNUAL RUNOFF (CFSM)	1.07		.98		1.36	
ANNUAL RUNOFF (INCHES)	14.46		13.30		18.54	
10 PERCENT EXCEEDS	779		637		885	
50 PERCENT EXCEEDS	143		172		205	
90 PERCENT EXCEEDS	74		85		72	

- a Computed using estimated daily discharges.
- b Also Nov. 1.
- c From rating curve extended above 14,000 ft<sup>3</sup>/s on basis of slope-area measurement of peak flow.
- d Gage height 18.58 ft, from floodmark in gage shelter.
- e Estimated.

