

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 mi².

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 National Geodetic Vertical Datum of 1929 (Penn Central Railroad bench mark). Prior to Aug. 14, 1928, nonrecording gage at same site and datum.

REMARKS.--No estimated daily discharges. Records good. 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 ft³/s.

PEAK DISCHARGES FOR CURRENT YEAR.--Peak discharges greater than a base discharge of 4,200 ft³/s and maximum (*):

Date	Time	Discharge ft ³ /s	Gage Height (ft)	Date	Time	Discharge ft ³ /s	Gage Height (ft)
Mar. 27	0130	4,650	10.05	May 18	1445	*5,190	*10.57

**DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES**

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	60	64	234	82	220	121	643	768	733	135	64	56
2	59	64	140	79	221	128	483	831	327	129	67	57
3	60	68	113	77	196	384	430	670	261	122	65	58
4	56	68	101	80	195	329	385	542	237	117	62	56
5	55	65	95	80	168	258	351	481	228	113	60	52
6	54	63	85	78	174	260	330	421	674	104	75	50
7	53	61	84	91	165	237	302	406	977	100	67	50
8	53	61	84	88	158	217	279	375	438	97	61	49
9	54	60	177	84	145	195	268	1530	355	97	58	48
10	54	59	130	146	144	196	280	1360	315	160	56	48
11	56	59	107	246	466	172	240	873	270	109	55	47
12	57	58	96	221	358	168	221	736	248	95	55	46
13	57	59	95	187	311	160	220	1370	239	90	75	46
14	58	58	110	157	256	159	284	1370	876	87	63	46
15	207	59	138	148	232	150	528	1170	873	88	58	48
16	98	60	113	134	219	154	758	888	589	84	59	60
17	106	59	114	127	205	149	649	723	452	81	58	57
18	84	59	289	119	187	324	560	3520	384	78	59	52
19	77	59	227	112	167	393	845	2130	326	79	58	50
20	68	61	175	109	165	1280	546	1360	281	90	61	63
21	65	59	148	114	164	1620	477	973	248	80	59	59
22	63	59	129	108	158	907	856	753	228	75	57	61
23	63	58	119	110	145	639	631	621	207	73	71	157
24	75	58	124	145	139	501	536	522	199	77	134	82
25	74	191	116	291	129	413	484	446	187	73	94	63
26	65	238	103	221	133	1450	426	402	181	84	73	63
27	63	117	101	207	155	2970	375	358	172	96	64	352
28	62	102	98	190	135	1320	880	334	200	85	61	286
29	61	154	96	182	---	889	1110	309	187	76	61	136
30	62	165	82	195	---	678	800	296	149	68	59	99
31	63	---	78	211	---	552	---	350	---	65	57	---
TOTAL	2142	2425	3901	4419	5510	17373	15177	26888	11041	2907	2026	2397
MEAN	69.1	80.8	126	143	197	560	506	867	368	93.8	65.4	79.9
MAX	207	238	289	291	466	2970	1110	3520	977	160	134	352
MIN	53	58	78	77	129	121	220	296	149	65	55	46
CFSM	0.24	0.28	0.43	0.49	0.68	1.93	1.74	2.98	1.26	0.32	0.22	0.27
IN.	0.27	0.31	0.50	0.56	0.70	2.22	1.94	3.44	1.41	0.37	0.26	0.31

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1917 - 2002, BY WATER YEAR (WY)

MEAN	180	278	370	413	550	889	767	521	306	184	142	140
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

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SUMMARY STATISTICS	FOR 2001 CALENDAR YEAR		FOR 2002 WATER YEAR		WATER YEARS 1917 - 2002	
ANNUAL TOTAL	90630		96206			
ANNUAL MEAN	248		264		394	
HIGHEST ANNUAL MEAN					670	1972
LOWEST ANNUAL MEAN					200	1969
HIGHEST DAILY MEAN	3080	Apr 16	3520	May 18	25000	Mar 18 1936
LOWEST DAILY MEAN	53	Oct 7,8	46	Sep 12-14	31	Dec 24 1930
ANNUAL SEVEN-DAY MINIMUM	54	Oct 4	47	Sep 9	32	Dec 19 1930
MAXIMUM PEAK FLOW			5190	May 18	ab30000	Mar 18 1936
MAXIMUM PEAK STAGE			10.57	May 18	19.35	Jan 19 1996
INSTANTANEOUS LOW FLOW			44	Sep 12	13	Jul 24 1934
ANNUAL RUNOFF (CFSM)	0.85		0.91		1.35	
ANNUAL RUNOFF (INCHES)	11.59		12.30		18.40	
10 PERCENT EXCEEDS	645		657		874	
50 PERCENT EXCEEDS	124		130		204	
90 PERCENT EXCEEDS	59		58		72	

- a From rating curve extended above 14,000 ft³/s on basis of slope-area measurement of peak flow.
- b Gage height 18.58 ft, from floodmark in gage shelter.

