

**JUNIATA RIVER BASIN**

**01558000 LITTLE JUNIATA RIVER AT SPRUCE CREEK, PA**

**LOCATION.**--Lat 40°36'45", long 78°08'27", Huntingdon County, Hydrologic Unit 02050302, on right bank on SR 4006, 150 ft downstream from Penn Central Railroad bridge, 0.5 mi northwest of village of Spruce Creek, and 0.5 mi upstream from Spruce Creek.

**DRAINAGE AREA.**--220 mi<sup>2</sup>.

**PERIOD OF RECORD.**--June 1938 to current year. Prior to October 1938 monthly discharge only, published in WSP 1302.

**GAGE.**--Water-stage recorder. Datum of gage is 751.15 ft above sea level.

**REMARKS.**--No estimated daily discharges. Records good. Several measurements of water temperature were made during the year. Satellite telemetry at station.

**EXTREMES OUTSIDE PERIOD OF RECORD.**--Flood of Mar. 18, 1936 reached a stage of 19.1 ft, from floodmarks 175 ft downstream, discharge, 39,800 ft<sup>3</sup>/s, from rating curve extended above 5,600 ft<sup>3</sup>/s on basis of slope-area measurement of peak flow.

**PEAK DISCHARGES FOR CURRENT YEAR.**--Peak discharges greater than a base discharge of 3,000 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)
Mar. 4	0215	*3,300	*6.01	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	77	82	86	75	482	323	587	351	116	101	92	75
2	76	82	85	71	738	277	593	326	122	95	79	74
3	76	83	86	72	705	405	566	312	178	90	70	71
4	100	82	86	73	709	1980	544	299	134	85	68	71
5	93	83	86	72	762	871	651	287	116	81	68	70
6	82	83	86	69	651	676	520	272	114	79	67	78
7	81	80	86	69	643	571	492	268	111	85	66	137
8	267	81	86	70	730	476	451	270	107	82	68	86
9	235	82	90	71	588	439	1030	267	100	77	73	76
10	206	97	88	74	585	415	1980	237	98	91	67	73
11	148	123	85	79	549	385	1400	219	97	89	66	68
12	123	100	84	79	549	371	1270	209	100	79	64	66
13	111	89	85	86	538	369	957	197	93	77	64	67
14	113	87	85	111	483	388	809	218	95	76	418	66
15	107	86	85	113	448	390	697	183	95	75	164	63
16	101	85	85	102	428	410	686	175	95	74	128	92
17	98	85	86	102	426	702	590	161	171	72	122	132
18	98	83	85	131	414	1260	519	157	161	78	95	72
19	96	83	84	279	379	1010	468	159	108	75	85	63
20	96	84	83	242	357	759	527	147	97	73	84	68
21	92	84	85	211	332	844	477	140	93	73	110	85
22	91	83	166	321	299	951	551	135	89	101	105	79
23	91	83	119	506	269	782	560	230	85	100	81	69
24	90	84	91	2050	265	705	571	218	84	78	78	65
25	90	83	79	1260	250	666	522	184	81	77	78	61
26	89	85	78	767	244	607	500	154	81	77	216	61
27	89	86	77	600	235	568	467	141	80	73	218	54
28	87	84	79	831	293	554	428	133	217	70	122	53
29	83	84	79	955	---	561	398	125	186	70	95	60
30	82	85	79	703	---	568	368	122	136	70	84	227
31	82	---	72	569	---	564	---	117	---	69	80	---
TOTAL	3350	2581	2716	10813	13351	19847	20179	6413	3440	2492	3275	2382
MEAN	108	86.0	87.6	349	477	640	673	207	115	80.4	106	79.4
MAX	267	123	166	2050	762	1980	1980	351	217	101	418	227
MIN	76	80	72	69	235	277	368	117	80	69	64	53
CFSM	.49	.39	.40	1.59	2.17	2.91	3.06	.94	.52	.37	.48	.36
IN.	.57	.44	.46	1.83	2.26	3.36	3.41	1.08	.58	.42	.55	.40

**STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1939 - 1999, BY WATER YEAR (WY)**

MEAN	189	279	366	380	492	784	721	521	337	192	141	149
MAX	816	1092	997	991	1128	1609	1928	1239	2022	623	389	898
(WY)	1991	1951	1973	1949	1976	1979	1993	1978	1972	1956	1956	1996
MIN	64.7	71.3	73.2	90.5	138	261	228	150	104	70.4	56.9	50.8
(WY)	1964	1939	1966	1940	1963	1990	1946	1976	1965	1965	1966	1995

JUNIATA RIVER BASIN

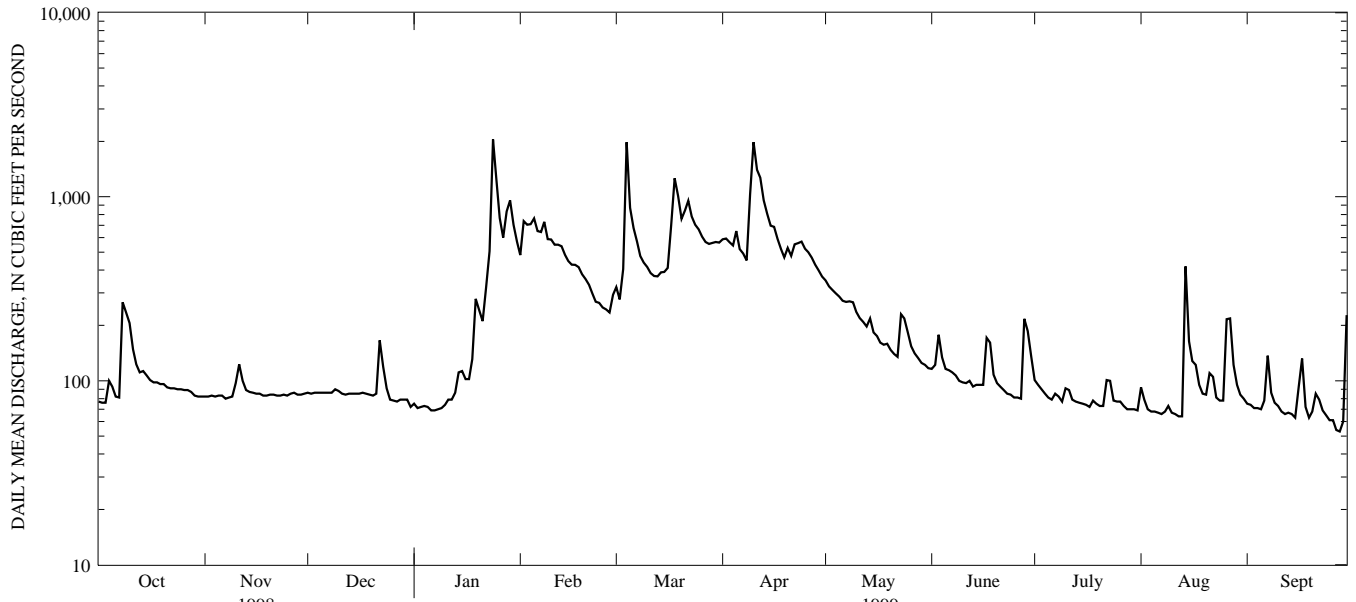
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SUMMARY STATISTICS	FOR 1998 CALENDAR YEAR		FOR 1999 WATER YEAR		WATER YEARS 1939 - 1999	
ANNUAL TOTAL	152670		90839			
ANNUAL MEAN	418		249		378	
HIGHEST ANNUAL MEAN					630	1972
LOWEST ANNUAL MEAN					248	1966
HIGHEST DAILY MEAN	3200	Apr 27	2050	Jan 24	21100	Jun 23 1972
LOWEST DAILY MEAN	72	Sep 20 <sup>a</sup>	53	Sep 28	31	Sep 12 1995
ANNUAL SEVEN-DAY MINIMUM	78	Dec 25	60	Sep 23	34	Sep 7 1995
INSTANTANEOUS PEAK FLOW			3300	Mar 4	<sup>b</sup> 28600	Jun 23 1972
INSTANTANEOUS PEAK STAGE			6.01	Mar 4	16.98	Jun 23 1972
INSTANTANEOUS LOW FLOW			50	Sep 27	45	Sep 26 1943 <sup>c</sup>
ANNUAL RUNOFF (CFSM)	1.90		1.13		1.72	
ANNUAL RUNOFF (INCHES)	25.82		15.36		23.37	
10 PERCENT EXCEEDS	1090		596		816	
50 PERCENT EXCEEDS	187		100		222	
90 PERCENT EXCEEDS	84		72		83	

<sup>a</sup> Also Dec. 31.

<sup>b</sup> From rating curve extended above 5,600 ft<sup>3</sup>/s on basis of slope-area measurement at gage height 15.77 ft.

<sup>c</sup> Also Oct. 4, 1949.



1-YEAR HYDROGRAPH  
OCTOBER 1, 1998 TO SEPTEMBER 30, 1999