

## JUNIATA RIVER BASIN

### 01559000 JUNIATA RIVER AT HUNTINGDON, PA

**LOCATION.**--Lat 40°29'05", long 78°01'09", Huntingdon County, Hydrologic Unit 02050302, on right bank 170 ft downstream from Smithfield Bridge on State Highway 26 at Huntingdon, and 0.8 mi upstream from Standing Stone Creek.

**DRAINAGE AREA.**--816 mi<sup>2</sup>.

**PERIOD OF RECORD.**--October 1941 to current year. Gage-height records collected in this vicinity for the period May 1895 to December 1938 are contained in reports of U.S. Weather Bureau. Prior to October 1950, published as Frankstown Branch Juniata River at Huntingdon.

**REVISED RECORDS.**--WDR PA-73-1: 1936(M). WDR PA-80-2: 1972(M). WDR PA-84-2: 1936(M) 1972(M).

**GAGE.**--Water-stage recorder. Datum of gage is 599.69 ft above sea level.

**REMARKS.**--Records good except those for estimated daily discharges, which are poor. Several measurements of water temperature were made during the year. Flow regulated September 1941 to June 1972, and since December 15, 1985 by Warrior Ridge Hydroelectric Plant 4 mi upstream (reservoir capacity 400 acre-ft). Satellite and landline telemetry at station.

**EXTREMES OUTSIDE PERIOD OF RECORD.**--Flood of Mar. 18, 1936, reached a stage of 21.87 ft, from floodmark, discharge, 81,000 ft<sup>3</sup>/s, from rating curve extended on basis of computation of peak discharge at dam and runoff comparison with downstream station.

**PEAK DISCHARGES FOR CURRENT YEAR.**--Peak discharges greater than a base discharge of 5,500 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)
Nov. 27	0230	5,650	*5.84	Apr. 23	0015	*5,660	5.73

#### 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	522	266	823	493	e325	2140	788	1240	1090	445	314	237
2	331	281	688	463	e330	2040	720	1170	1010	433	526	256
3	254	1550	677	492	e320	1650	728	1040	846	439	395	259
4	297	684	613	512	e315	1380	1290	931	747	467	746	253
5	307	467	570	588	e300	1240	1280	917	727	496	452	244
6	299	407	582	470	e290	1080	1010	848	1500	368	432	227
7	271	318	524	442	e285	1010	910	771	1280	392	912	219
8	225	352	504	443	e280	870	977	694	888	351	722	220
9	231	289	483	436	e280	841	1300	720	777	326	498	241
10	360	345	476	441	e260	801	1040	644	677	342	415	226
11	600	257	500	580	e300	773	960	630	597	358	333	247
12	413	328	483	492	e370	1250	1080	560	589	356	335	245
13	317	232	467	530	473	974	1040	610	657	323	323	299
14	405	265	1030	450	1660	879	910	525	697	312	332	336
15	458	287	2500	371	2810	803	909	530	922	310	279	304
16	349	251	1430	451	1600	767	885	520	2430	367	288	234
17	326	234	1190	580	1460	1120	926	463	1150	380	293	229
18	335	263	968	457	1190	964	2480	489	955	325	270	236
19	321	230	853	373	1260	850	2490	715	990	305	259	227
20	272	236	842	437	1250	792	1960	1300	725	295	250	217
21	351	247	1100	661	1060	1260	2980	847	681	266	283	214
22	264	272	845	658	1210	3130	4810	865	1350	275	251	214
23	355	229	726	373	1330	2220	5140	1040	811	269	258	219
24	256	256	715	425	1580	1890	4020	2770	661	292	268	251
25	329	237	574	e360	2130	1660	3080	1990	597	283	336	341
26	249	1680	600	e350	2520	1500	2460	1360	599	253	297	359
27	319	3940	601	e345	2170	1300	2070	1190	584	251	253	364
28	223	1690	567	e320	3380	1200	1820	1230	539	342	253	173
29	247	1190	551	e310	2530	1090	1550	1870	493	376	255	201
30	267	973	541	e310	---	981	1370	1390	464	363	255	224
31	267	---	545	e320	---	849	---	1200	---	322	258	---
TOTAL	10020	18256	23568	13933	33268	39304	52983	31069	26033	10682	11341	7516
MEAN	323	609	760	449	1147	1268	1766	1002	868	345	366	251
MAX	600	3940	2500	661	3380	3130	5140	2770	2430	496	912	364
MIN	223	229	467	310	260	767	720	463	464	251	250	173
CFSM	.40	.75	.93	.55	1.41	1.55	2.16	1.23	1.06	.42	.45	.31
IN.	.46	.83	1.07	.64	1.52	1.79	2.42	1.42	1.19	.49	.52	.34

#### STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1942 - 2000, BY WATER YEAR (WY)

MEAN	554	820	1080	1141	1456	2268	2037	1471	959	576	454	462
MAX	2114	3020	3100	2780	3059	4920	5739	3217	5562	1920	1447	2856
(WY)	1991	1998	1973	1996	1971	1994	1993	1978	1972	1989	1956	1996
MIN	146	233	232	265	379	693	747	528	312	201	163	143
(WY)	1964	1964	1966	1981	1963	1969	1946	1976	1965	1966	1966	1963

e Estimated.

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SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1942 - 2000	
ANNUAL TOTAL	308870		277973			
ANNUAL MEAN	846		759		1104	
HIGHEST ANNUAL MEAN					1830	1972
LOWEST ANNUAL MEAN					595	1969
HIGHEST DAILY MEAN	6900	Apr 10	5140	Apr 23	50400	Jun 23 1972
LOWEST DAILY MEAN	160	Aug 17	173	Sep 28	40	Sep 12 1963
ANNUAL SEVEN-DAY MINIMUM	229	Sep 23	222	Sep 17	117	Sep 10 1963
INSTANTANEOUS PEAK FLOW			5660	Apr 23	a57000	Jun 23 1972
INSTANTANEOUS PEAK STAGE			b5.73	Apr 23	20.03	Jun 23 1972
INSTANTANEOUS LOW FLOW			173	Sep 28	c14	Feb 8 1948
ANNUAL RUNOFF (CFSM)	1.04		.93		1.35	
ANNUAL RUNOFF (INCHES)	14.08		12.67		18.39	
10 PERCENT EXCEEDS	1960		1550		2360	
50 PERCENT EXCEEDS	456		494		661	
90 PERCENT EXCEEDS	261		251		267	

a From rating curve extended above 22,000 ft<sup>3</sup>/s on basis of computation of peak discharge at dam, slope-conveyance study, and Pennsylvania Department of Environmental Protection step-backwater study.

b Maximum gage height, 5.84 ft, Nov. 27.

c Minimum recorded; Also Aug. 2, 1954.

