

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 mi².

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 ft³/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 ft³/s and maximum (*):

Date	Time	Discharge ft ³ /s	Gage Height (ft)	Date	Time	Discharge ft ³ /s	Gage Height (ft)
Apr. 16	1645	*7,310	*6.66	No other peak greater than 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	223	344	599	e330	1500	722	1550	869	554	1350	215	311
2	218	322	509	e340	1170	719	1570	815	1460	1480	206	278
3	223	303	453	e320	985	706	1480	722	1300	1060	205	231
4	207	286	415	e300	837	678	1460	705	1040	370	420	219
5	261	272	417	e280	702	797	1360	680	867	334	476	214
6	284	263	423	e280	750	617	1490	578	778	362	280	209
7	387	284	384	e290	850	709	1860	590	676	349	238	202
8	270	290	395	e290	895	607	1830	515	655	335	214	202
9	238	302	366	e295	887	784	1800	558	583	386	210	201
10	249	594	347	e300	1560	835	2610	539	505	343	261	201
11	308	728	409	e300	1800	787	2230	507	500	338	433	200
12	281	465	338	317	1390	743	2350	492	467	342	272	198
13	198	376	381	318	1170	2670	2040	481	516	273	245	188
14	236	349	342	311	1200	3570	1830	453	450	252	224	198
15	223	347	421	310	1860	2870	1670	442	396	267	212	200
16	218	331	391	317	2210	2380	5320	429	405	260	213	197
17	218	320	1350	334	2420	3010	5460	421	542	258	296	184
18	1600	314	1570	330	1920	2590	3920	423	452	256	377	182
19	1090	305	e800	348	1550	2180	3040	415	372	247	208	182
20	538	299	e640	467	1430	1920	2450	381	328	237	628	209
21	448	293	e520	459	1330	1920	2270	402	616	229	431	303
22	380	289	e470	359	1030	3580	1940	448	1660	220	264	243
23	352	285	e440	337	987	2700	1710	797	2540	213	268	207
24	331	263	e420	362	912	2300	1550	548	2480	209	231	254
25	322	261	e460	370	837	2040	1380	439	1730	226	234	508
26	314	517	e400	347	947	1760	1260	487	1510	294	236	430
27	302	973	e380	335	866	1540	1110	2310	1440	319	251	268
28	289	630	e370	343	797	1410	1070	1390	1330	231	270	237
29	295	530	e360	321	---	1320	946	908	1290	210	261	242
30	276	629	e340	408	---	1860	898	645	1280	213	240	232
31	272	---	e330	1830	---	1900	---	604	---	221	233	---
TOTAL	11051	11764	15440	11848	34792	52224	61454	19993	28722	11684	8752	7130
MEAN	356	392	498	382	1243	1685	2048	645	957	377	282	238
MAX	1600	973	1570	1830	2420	3580	5460	2310	2540	1480	628	508
MIN	198	261	330	280	702	607	898	381	328	209	205	182
CFSM	.44	.48	.61	.47	1.52	2.06	2.51	.79	1.17	.46	.35	.29
IN.	.50	.54	.70	.54	1.59	2.38	2.80	.91	1.31	.53	.40	.33

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1942 - 2001, BY WATER YEAR (WY)

MEAN	551	813	1070	1129	1452	2259	2037	1457	959	573	451	458
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 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1942 - 2001	
ANNUAL TOTAL	264384		274854			
ANNUAL MEAN	722		753		1098	
HIGHEST ANNUAL MEAN					1830	1972
LOWEST ANNUAL MEAN					595	1969
HIGHEST DAILY MEAN	5140	Apr 23	5460	Apr 17	50400	Jun 23 1972
LOWEST DAILY MEAN	173	Sep 28	182	Sep 18,19	40	Sep 12 1963
ANNUAL SEVEN-DAY MINIMUM	210	Sep 28	190	Sep 13	117	Sep 10 1963
MAXIMUM PEAK FLOW			7310	Apr 16	a57000	Jun 23 1972
MAXIMUM PEAK STAGE			6.66	Apr 16	20.03	Jun 23 1972
INSTANTANEOUS LOW FLOW			92	Aug 19	b14	Feb 8 1948
ANNUAL RUNOFF (CFSM)	.89		.92		1.35	
ANNUAL RUNOFF (INCHES)	12.05		12.53		18.29	
10 PERCENT EXCEEDS	1470		1830		2350	
50 PERCENT EXCEEDS	449		417		657	
90 PERCENT EXCEEDS	253		221		266	

a From rating curve extended above 22,000 ft³/s on basis of computation of peak discharge at dam, slope-conveyance study, and Pennsylvania Department of Environmental Protection step-backwater study.
 b Minimum recorded; Also Aug. 2, 1954.

