

JUNIATA RIVER BASIN

01560000 DUNNING CREEK AT BELDEN, PA

LOCATION.--Lat 40°04'18", long 78°29'34", Bedford County, Hydrologic Unit 02050303, on left bank 10 ft upstream from highway bridge on SR 1014, 0.8 mi southeast of Belden, 3.8 mi north of Bedford, and 4.3 mi upstream from mouth.

DRAINAGE AREA.--172 mi².

PERIOD OF RECORD.--May 1939 to current year. Prior to October 1939 monthly discharge only, published in WSP 1302.

REVISED RECORDS.--WSP 971: 1940(M). WSP 1502: 1940-41. WDR PA-72-1: 1967(M).

GAGE.--Water-stage recorder. Datum of gage is 1,051.16 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. Satellite telemetry at station.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage known, 17.8 ft, Mar. 18, 1936, from floodmarks (backwater from Raystown Branch Juniata River), discharge, about 16,900 ft³/s.

PEAK DISCHARGES FOR CURRENT YEAR.--Peak discharges greater than a base discharge of 2,300 ft³/s and maximum (*):

Date	Time	Discharge ft ³ /s	Gage Height (ft)	Date	Time	Discharge ft ³ /s	Gage Height (ft)
Jan. 24	1745	2,940	7.36	Mar. 22	0030	2,440	6.71
Mar. 18	2215	3,350	7.83	Apr. 10	0345	*4,050	*8.59

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	22	18	20	17	282	124	343	193	40	37	20	15
2	21	18	20	e17	421	100	342	166	41	42	26	14
3	21	18	20	18	391	122	294	147	64	29	21	13
4	28	18	20	19	353	944	261	137	51	26	17	13
5	29	18	20	17	394	624	1010	128	44	23	15	13
6	28	18	20	16	336	481	723	121	40	21	14	20
7	27	18	20	17	327	386	565	118	38	19	14	81
8	44	19	21	17	392	279	413	130	37	18	13	43
9	66	19	22	e17	318	257	1380	118	34	17	14	29
10	38	20	22	e18	277	229	2970	102	32	17	14	24
11	31	21	21	e17	238	198	1750	92	32	17	14	20
12	28	25	20	e18	224	184	1800	88	31	18	13	18
13	26	25	20	e22	209	182	1290	84	29	19	13	17
14	24	25	19	e27	184	e184	826	88	29	19	14	16
15	22	25	19	42	163	e195	589	79	29	18	16	16
16	22	24	18	46	151	215	586	72	29	17	17	21
17	21	24	18	46	140	520	416	68	37	16	15	26
18	21	24	18	52	130	2320	350	64	55	17	14	25
19	22	24	18	103	116	1980	296	63	37	16	13	21
20	20	24	18	119	105	1060	494	59	30	15	14	19
21	20	24	18	85	93	1260	469	54	29	17	15	20
22	20	23	18	92	79	1620	1330	50	28	19	13	20
23	20	22	18	200	73	990	1320	71	26	19	13	20
24	19	21	18	2080	76	740	1280	75	24	18	13	18
25	19	22	17	1280	67	637	870	75	23	17	27	17
26	19	22	17	692	68	533	605	61	23	16	59	16
27	18	20	16	489	62	455	451	54	22	16	56	16
28	18	20	17	922	90	405	347	50	38	16	31	17
29	18	20	17	1080	---	391	276	47	47	19	23	18
30	18	20	18	639	---	388	228	44	35	19	19	56
31	19	---	16	405	---	353	---	42	---	17	16	---
TOTAL	769	639	584	8629	5759	18356	23874	2740	1054	614	596	682
MEAN	24.8	21.3	18.8	278	206	592	796	88.4	35.1	19.8	19.2	22.7
MAX	66	25	22	2080	421	2320	2970	193	64	42	59	81
MIN	18	18	16	16	62	100	228	42	22	15	13	13
CFSM	.14	.12	.11	1.62	1.20	3.44	4.63	.51	.20	.12	.11	.13
IN.	.17	.14	.13	1.87	1.25	3.97	5.16	.59	.23	.13	.13	.15

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1940 - 1999, BY WATER YEAR (WY)

MEAN	97.0	172	253	263	361	563	447	282	170	92.6	56.1	60.3
MAX	798	917	859	664	825	1408	1370	1013	1015	740	214	547
(WY)	1977	1998	1973	1952	1971	1994	1993	1998	1972	1989	1979	1996
MIN	14.0	18.3	18.8	45.8	65.2	129	112	45.7	25.6	8.96	8.05	9.86
(WY)	1970	1954	1999	1981	1963	1990	1946	1941	1965	1966	1966	1985

e Estimated.

JUNIATA RIVER BASIN

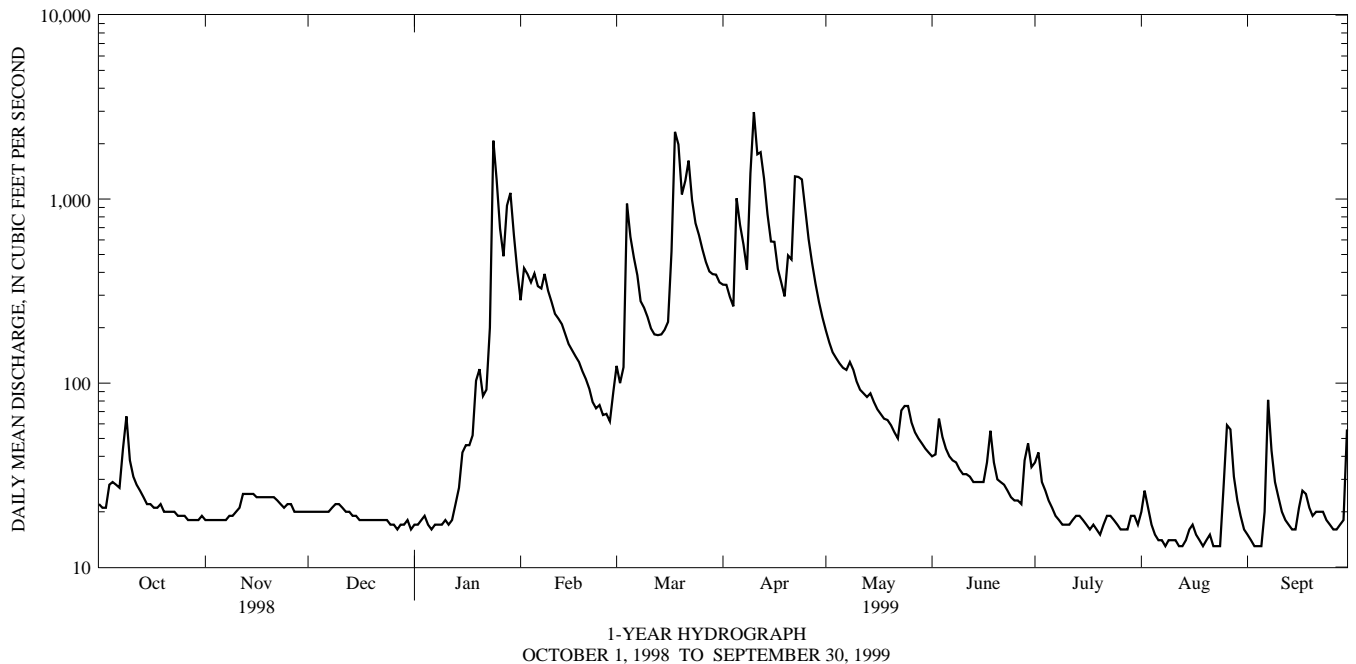
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SUMMARY STATISTICS	FOR 1998 CALENDAR YEAR		FOR 1999 WATER YEAR		WATER YEARS 1940 - 1999	
ANNUAL TOTAL	109089		64296		234	
ANNUAL MEAN	299		176		397	
HIGHEST ANNUAL MEAN					1998	
LOWEST ANNUAL MEAN					1954	
HIGHEST DAILY MEAN	e5000	May 9	2970	Apr 10	9140	Jun 23 1972
LOWEST DAILY MEAN	16	Dec 27,31	13	Aug 8a	6.4	Sep 6 1964
ANNUAL SEVEN-DAY MINIMUM	17	Dec 25	14	Aug 7	6.7	Aug 5 1966
INSTANTANEOUS PEAK FLOW			4050	Apr 10	b19400	Jul 20 1977
INSTANTANEOUS PEAK STAGE			8.59	Apr 10	14.15	Jul 20 1977
INSTANTANEOUS LOW FLOW			5.8	Dec 30	2.6	Sep 6 1964
ANNUAL RUNOFF (CFSM)	1.74		1.02		1.36	
ANNUAL RUNOFF (INCHES)	23.59		13.91		18.49	
10 PERCENT EXCEEDS	866		484		574	
50 PERCENT EXCEEDS	61		27		100	
90 PERCENT EXCEEDS	20		16		20	

a Also Aug. 12, 13, 19, 22-24, Sept. 3-5.

b From rating curve extended above 9,200 ft³/s on basis of contracted-opening measurement at gage height 12.67 ft and contracted-opening and flow-over-road measurement at gage height 13.03 ft.

e Estimated.



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