

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)
Apr. 22	1415	*2,800	*7.42	No other peak greater than base discharge.			

**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	54	22	120	e66	e44	525	132	163	319	56	79	42
2	35	49	100	67	e44	440	123	182	236	53	69	42
3	28	191	90	68	e43	333	133	144	180	52	148	51
4	32	92	82	72	e43	272	272	124	140	67	140	45
5	39	71	75	74	e42	233	232	115	132	61	68	40
6	31	61	71	64	e41	195	226	104	957	52	219	37
7	26	54	68	60	e40	165	225	95	560	49	410	36
8	25	48	62	59	e40	149	228	88	385	46	240	36
9	24	46	57	60	e40	136	253	82	282	45	157	36
10	85	44	58	66	e41	126	218	77	209	47	118	36
11	94	41	68	92	e60	149	201	74	156	47	91	41
12	58	39	59	86	e85	308	323	70	134	45	76	45
13	46	37	58	80	e140	207	312	68	142	42	67	49
14	77	36	280	e68	777	191	327	67	216	42	62	46
15	61	34	461	e64	829	187	293	61	170	70	57	41
16	48	33	309	e64	581	180	250	57	192	54	53	40
17	43	31	241	e64	515	237	229	56	131	48	50	39
18	40	30	194	e64	425	177	285	54	118	45	50	39
19	32	30	157	e63	687	157	338	133	117	43	52	38
20	27	29	151	e62	560	151	282	281	96	45	48	39
21	26	29	183	e61	495	493	824	179	86	44	46	39
22	25	29	138	e60	509	806	2290	166	158	41	44	37
23	24	29	121	e60	502	607	1670	210	105	40	43	37
24	23	29	108	e56	537	520	1020	1390	90	39	55	39
25	23	40	e100	e54	740	430	670	657	81	42	51	48
26	23	399	e90	e52	823	346	485	377	76	41	44	89
27	23	685	e84	e50	625	283	378	285	79	40	46	67
28	23	337	e76	e48	896	249	299	569	84	68	52	52
29	23	217	e72	e47	612	222	242	1010	67	55	46	48
30	22	155	e70	e46	---	179	197	632	61	51	43	45
31	22	---	e68	e45	---	149	---	445	---	87	42	---
TOTAL	1162	2967	3871	1942	10816	8802	12957	8015	5759	1557	2766	1319
MEAN	37.5	98.9	125	62.6	373	284	432	259	192	50.2	89.2	44.0
MAX	94	685	461	92	896	806	2290	1390	957	87	410	89
MIN	22	22	57	45	40	126	123	54	61	39	42	36
CFSM	.22	.57	.73	.36	2.17	1.65	2.51	1.50	1.12	.29	.52	.26
IN.	.25	.64	.84	.42	2.34	1.90	2.80	1.73	1.25	.34	.60	.29

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1940 - 2000, BY WATER YEAR (WY)

MEAN	96.1	171	250	259	362	558	446	282	170	91.9	56.6	60.0
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.

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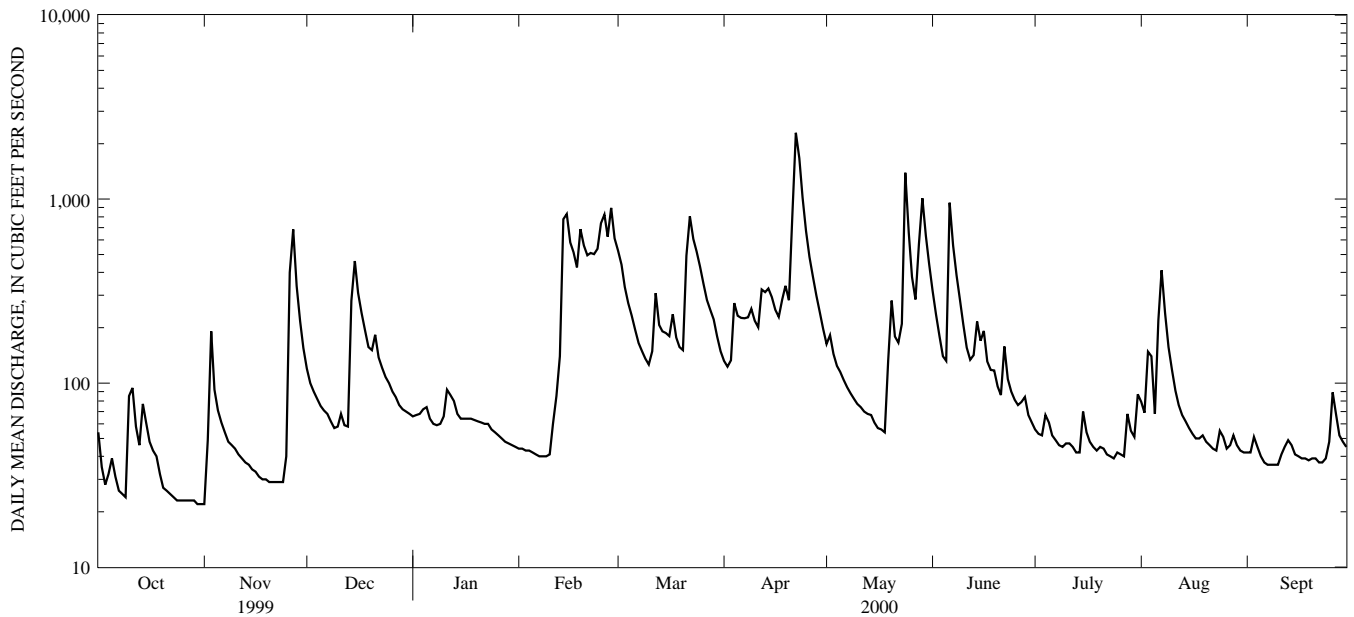
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SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1940 - 2000	
ANNUAL TOTAL	70304		61933			
ANNUAL MEAN	193		169		233	
HIGHEST ANNUAL MEAN					397	1998
LOWEST ANNUAL MEAN					107	1954
HIGHEST DAILY MEAN	2970	Apr 10	2290	Apr 22	9140	Jun 23 1972
LOWEST DAILY MEAN	13	Aug 8 ^a	22	Oct 30 ^b	6.4	Sep 6 1964
ANNUAL SEVEN-DAY MINIMUM	14	Aug 7	23	Oct 26	6.7	Aug 5 1966
INSTANTANEOUS PEAK FLOW			2800	Apr 22	c19400	Jul 20 1977
INSTANTANEOUS PEAK STAGE			7.42	Apr 22	14.15	Jul 20 1977
INSTANTANEOUS LOW FLOW			21	Nov 1,2	2.6	Sep 6 1964
ANNUAL RUNOFF (CFSM)	1.12		.98		1.35	
ANNUAL RUNOFF (INCHES)	15.21		13.39		18.40	
10 PERCENT EXCEEDS	491		442		571	
50 PERCENT EXCEEDS	51		70		99	
90 PERCENT EXCEEDS	17		37		20	

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

b Also Oct. 31, Nov. 1.

c 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.



1-YEAR HYDROGRAPH
OCTOBER 1, 1999 TO SEPTEMBER 30, 2000