

## 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 mi<sup>2</sup>.

**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 ft<sup>3</sup>/s.

**PEAK DISCHARGES FOR CURRENT YEAR.**--Peak discharges greater than a base discharge of 2,300 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)
Apr. 16	1330	*4,050	*8.69	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	43	34	145	e60	652	128	332	98	58	50	22	15
2	42	33	123	e58	461	126	334	92	207	58	21	14
3	42	32	101	e57	351	123	305	87	201	46	22	13
4	41	32	106	e55	271	123	280	81	190	43	42	13
5	42	31	94	e53	239	132	256	76	157	41	41	12
6	47	30	93	e52	245	115	252	72	134	42	31	12
7	46	29	84	e50	280	113	407	66	122	37	25	11
8	43	29	75	e49	279	119	411	63	101	41	22	11
9	42	30	69	e48	311	152	907	64	83	42	19	12
10	41	87	62	e48	678	159	1490	61	73	34	18	12
11	44	89	66	e47	648	172	1220	58	65	31	20	12
12	44	69	62	e46	477	230	942	55	60	29	23	12
13	42	65	55	e45	379	768	708	53	56	27	25	12
14	41	64	70	e44	345	1220	529	50	51	26	30	15
15	41	62	64	e44	769	925	456	48	47	25	21	15
16	41	60	62	e44	1110	770	3070	47	72	24	17	14
17	44	58	348	e43	1150	865	1840	47	211	24	17	14
18	268	56	327	e52	765	721	996	47	101	25	16	14
19	195	54	261	98	519	572	653	49	76	25	16	14
20	127	e51	208	139	406	458	486	47	64	24	18	17
21	97	e49	174	e100	333	698	408	57	79	22	21	22
22	75	e47	e145	e90	235	897	328	64	78	20	17	24
23	62	e44	e130	e83	215	613	269	125	285	19	16	21
24	55	e42	e120	e77	185	550	227	72	202	18	16	22
25	52	e44	e110	e72	173	470	187	61	124	18	16	36
26	48	129	e100	e68	208	391	159	81	93	47	16	35
27	45	177	e100	e68	154	319	141	71	77	32	21	25
28	43	143	e85	e62	141	267	129	76	66	25	22	21
29	40	133	e76	e59	---	240	113	70	58	22	20	19
30	37	160	e70	304	---	434	104	64	53	22	17	17
31	35	---	e65	787	---	349	---	59	---	23	16	---
TOTAL	1905	1963	3650	2902	11979	13219	17939	2061	3244	962	664	506
MEAN	61.5	65.4	118	93.6	428	426	598	66.5	108	31.0	21.4	16.9
MAX	268	177	348	787	1150	1220	3070	125	285	58	42	36
MIN	35	29	55	43	141	113	104	47	47	18	16	11
CFSM	.36	.38	.68	.54	2.49	2.48	3.48	.39	.63	.18	.12	.10
IN.	.41	.42	.79	.63	2.59	2.86	3.88	.45	.70	.21	.14	.11

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1940 - 2001, BY WATER YEAR (WY)

MEAN	95.5	169	248	257	363	556	449	279	169	91.0	56.1	59.3
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.

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01560000 DUNNING CREEK AT BELDEN, PA--Continued

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1940 - 2001	
ANNUAL TOTAL	61451		60994			
ANNUAL MEAN	168		167		232	
HIGHEST ANNUAL MEAN					397	1998
LOWEST ANNUAL MEAN					107	1954
HIGHEST DAILY MEAN	2290	Apr 22	3070	Apr 16	9140	Jun 23 1972
LOWEST DAILY MEAN	29	Nov 7,8	11	Sep 7,8	6.4	Sep 6 1964
ANNUAL SEVEN-DAY MINIMUM	30	Nov 3	12	Sep 5	6.7	Aug 5 1966
MAXIMUM PEAK FLOW			4050	Apr 16	a19400	Jul 20 1977
MAXIMUM PEAK STAGE			8.69	Apr 16	14.15	Jul 20 1977
INSTANTANEOUS LOW FLOW			11	Sep 5b	2.6	Sep 6 1964
ANNUAL RUNOFF (CFSM)	.98		.97		1.35	
ANNUAL RUNOFF (INCHES)	13.29		13.19		18.32	
10 PERCENT EXCEEDS	426		443		569	
50 PERCENT EXCEEDS	70		62		98	
90 PERCENT EXCEEDS	41		19		20	

- a From rating curve extended above 9,200 ft<sup>3</sup>/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.
- b Also Sept. 6-10, 12-14.

