

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 National Geodetic Vertical Datum of 1929.

REMARKS.--Records fair 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. 2	0530	6,920	10.62	June 4	0600	*7,560	*10.98
Mar. 21	0030	3,950	8.61	June 7	1745	2,850	7.49
May 10	1815	2,720	7.32	Sept. 28	0230	2,710	7.30
May 16	1230	2,840	7.47				

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	32	279	148	2050	e70	e220	263	98	527	97	45	63
2	27	213	131	5440	e65	212	295	104	339	88	55	85
3	23	166	e110	1810	e65	205	293	98	1350	82	332	427
4	21	140	e90	1020	e100	187	317	128	6000	76	140	380
5	21	125	e100	683	e110	273	884	213	1980	70	218	202
6	19	406	e110	536	e80	1100	936	362	1010	65	126	148
7	18	299	e100	424	e75	716	821	347	1590	74	94	118
8	17	251	e90	387	e70	615	783	463	1290	68	79	99
9	17	215	e85	486	e70	1180	817	633	1010	65	112	88
10	17	188	e80	409	e65	836	761	1600	665	60	91	79
11	36	204	e100	341	e65	571	936	1600	512	152	115	69
12	112	297	160	e260	e60	633	1010	925	396	86	112	62
13	82	417	202	e240	e60	1130	767	751	465	71	77	61
14	60	276	477	e210	e55	1540	570	564	340	59	82	62
15	48	232	641	e170	e55	1350	448	476	282	52	78	61
16	220	208	586	e140	e50	1410	357	1890	229	53	69	61
17	322	680	393	e150	e60	1840	285	1700	204	51	214	51
18	156	590	300	e140	e55	1960	242	1440	461	44	124	46
19	110	463	254	e130	e55	1540	216	1010	293	52	90	728
20	89	383	476	e120	e70	1800	192	719	318	45	74	736
21	74	303	585	e110	e70	2510	178	588	1330	39	63	407
22	62	290	528	e110	e130	1610	185	433	914	37	56	265
23	54	251	477	e105	e500	1070	155	705	602	40	49	685
24	49	209	384	e100	e925	750	133	810	410	43	42	442
25	46	185	363	e100	e560	565	124	699	292	38	38	329
26	332	166	298	e85	e400	459	128	692	223	33	68	259
27	220	169	240	e80	e300	374	130	622	181	31	127	459
28	147	159	207	e75	e250	298	110	606	149	28	117	1740
29	150	147	190	e80	---	270	105	476	125	28	82	693
30	570	163	171	e75	---	283	100	361	109	27	73	456
31	446	---	174	e70	---	267	---	342	---	25	70	---
TOTAL	3597	8074	8250	16136	4490	27774	12541	21455	23596	1779	3112	9361
MEAN	116	269	266	521	160	896	418	692	787	57.4	100	312
MAX	570	680	641	5440	925	2510	1010	1890	6000	152	332	1740
MIN	17	125	80	70	50	187	100	98	109	25	38	46
CFSM	0.67	1.56	1.55	3.03	0.93	5.21	2.43	4.02	4.57	0.33	0.58	1.81
IN.	0.78	1.75	1.78	3.49	0.97	6.01	2.71	4.64	5.10	0.38	0.67	2.02

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1940 - 2003, BY WATER YEAR (WY)

MEAN	94.6	169	245	258	355	559	445	289	178	89.4	56.1	62.7
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 2002 CALENDAR YEAR		FOR 2003 WATER YEAR		WATER YEARS 1940 - 2003	
ANNUAL TOTAL	65335.7		140165			
ANNUAL MEAN	179		384		233	
HIGHEST ANNUAL MEAN					397	1998
LOWEST ANNUAL MEAN					107	1954
HIGHEST DAILY MEAN	2640	May 9	6000	Jun 4	9140	Jun 23 1972
LOWEST DAILY MEAN	7.7	Sep 8-10	17	Oct 8-10	6.4	Sep 6 1964
ANNUAL SEVEN-DAY MINIMUM	8.0	Sep 6	19	Oct 4	6.7	Aug 5 1966
MAXIMUM PEAK FLOW			7560	Jun 4	^a 19400	Jul 20 1977
MAXIMUM PEAK STAGE			10.98	Jun 4	14.15	Jul 20 1977
INSTANTANEOUS LOW FLOW			15	Oct 9	2.6	Sep 6 1964
ANNUAL RUNOFF (CFSM)	1.04		2.23		1.35	
ANNUAL RUNOFF (INCHES)	14.13		30.31		18.38	
10 PERCENT EXCEEDS	430		925		572	
50 PERCENT EXCEEDS	90		192		98	
90 PERCENT EXCEEDS	13		52		20	

^a 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.

