



2005 Water Year
JUNIATA RIVER BASIN
01560000 Dunning Creek at Belden, PA

Latitude: 40° 04 ' 18"

Longitude: 078° 29 ' 34"

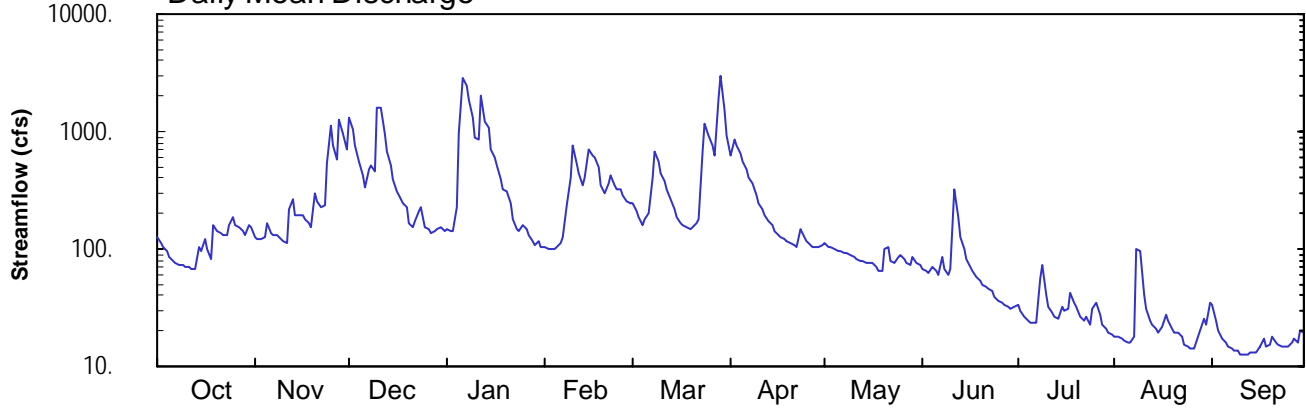
Hydrologic Unit Code: 02050303

Bedford County

Datum: 1051.16 feet

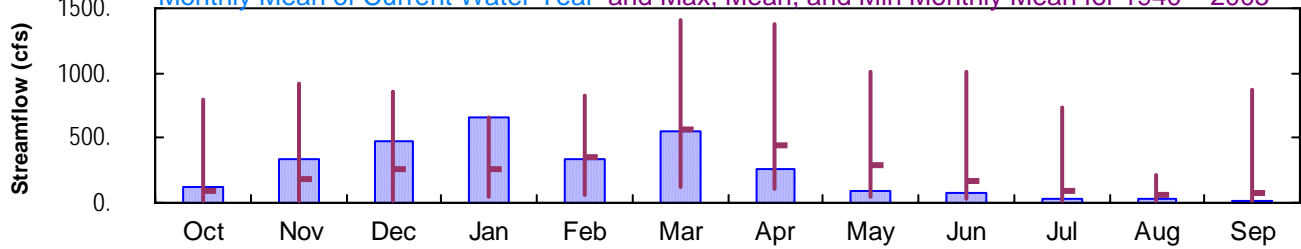
Drainage Area: 172. mi²

Daily Mean Discharge

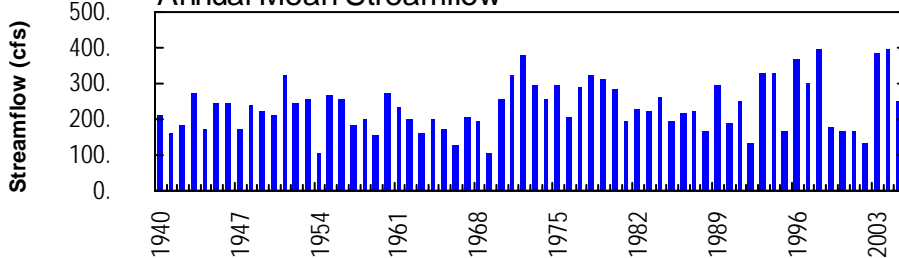


Monthly Statistics

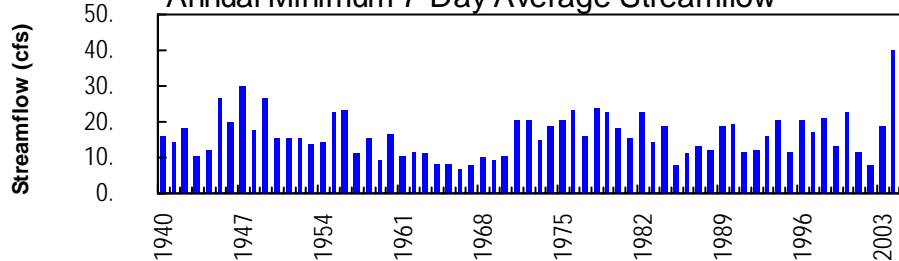
Monthly Mean of Current Water Year and Max, Mean, and Min Monthly Mean for 1940 – 2005



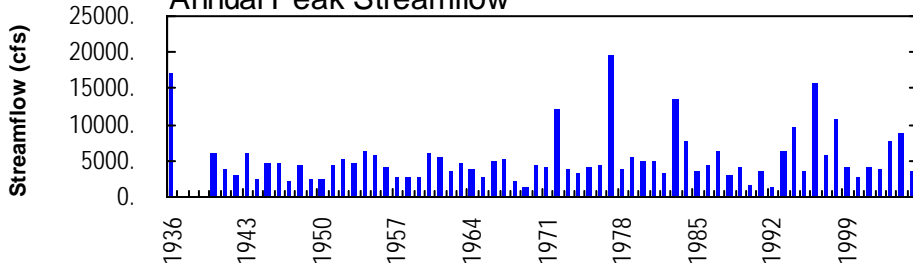
Annual Mean Streamflow



Annual Minimum 7-Day Average Streamflow



Annual Peak Streamflow



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 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. 6	2245	*3,530	*8.25	Jan. 12	0415	2,720	7.32
Jan. 8	1700	2,390	6.84	Mar. 29	0900	3,390	8.13

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	127	125	1290	149	e105	243	638	114	68	34	18	34
2	113	119	1040	142	e100	211	851	104	64	30	18	25
3	104	122	767	141	101	183	772	103	64	27	17	20
4	95	125	549	223	100	162	645	99	72	25	16	17
5	86	169	420	953	103	178	552	96	65	24	16	16
6	80	138	336	2880	110	202	479	95	61	24	16	15
7	76	132	475	2450	127	407	414	94	86	23	18	14
8	73	130	522	1840	241	665	364	92	67	56	102	14
9	73	122	464	1320	415	555	289	89	60	73	95	13
10	71	116	1610	899	768	448	245	86	68	41	41	13
11	69	112	1610	870	544	371	215	84	326	32	31	13
12	67	216	974	2050	444	317	191	80	186	28	25	12
13	69	268	682	1200	355	265	175	78	125	26	23	13
14	106	195	511	1070	406	215	160	75	98	26	21	13
15	97	195	390	709	700	185	144	77	81	32	19	13
16	123	191	314	594	638	169	132	76	70	30	22	15
17	99	177	286	507	599	160	124	71	65	31	28	17
18	83	166	244	392	496	154	120	66	58	42	25	15
19	161	151	226	326	e350	149	115	64	53	34	21	15
20	144	293	167	308	e300	152	111	99	49	32	19	18
21	134	254	e155	246	365	165	107	103	47	27	20	16
22	131	225	e170	180	429	177	105	79	46	24	18	15
23	130	237	213	e150	351	670	145	75	44	26	15	15
24	163	541	226	e140	321	1190	136	86	39	23	15	15
25	189	1130	152	e160	319	940	118	91	37	31	14	15
26	162	760	e145	e150	291	756	111	84	35	35	14	16
27	152	568	e135	e130	256	636	105	76	33	27	16	17
28	141	1280	e140	e115	249	1930	103	75	32	23	20	16
29	133	976	e145	e110	---	2940	104	85	31	21	25	20
30	158	713	151	e115	---	1570	110	76	32	20	23	19
31	152	---	143	e105	---	918	---	72	---	18	34	---
TOTAL	3561	9946	14652	20624	9583	17283	7880	2644	2162	945	805	489
MEAN	115	332	473	665	342	558	263	85.3	72.1	30.5	26.0	16.3
MAX	189	1280	1610	2880	768	2940	851	114	326	73	102	34
MIN	67	112	135	105	100	149	103	64	31	18	14	12
CFSM	0.67	1.93	2.75	3.87	1.99	3.24	1.53	0.50	0.42	0.18	0.15	0.09
IN.	0.77	2.15	3.17	4.46	2.07	3.74	1.70	0.57	0.47	0.20	0.17	0.11

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1940 - 2005, BY WATER YEAR (WY)

	1940	1941	1942	1943	1944	1945	1946	1947	1948	1949	1950	1951	1952	1953	1954	1955	1956	1957	1958	1959	1960	1961	1962	1963	1964	1965	1966	1967	1968	1969	1970			
MEAN	96.6	176	254	265	352	564	447	284	175	88.4	56.4	74.3																						
MAX	798	917	859	665	825	1408	1370	1013	1015	740	214	870																						
(WY)	1977	1998	1973	2005	1971	1994	1993	1998	1972	1989	1979	2004																						
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

01560000 DUNNING CREEK AT BELDEN, PA--Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1940 - 2005	
ANNUAL TOTAL	133006		90574			
ANNUAL MEAN	363		248		235	
HIGHEST ANNUAL MEAN					397	1998
LOWEST ANNUAL MEAN					107	1954
HIGHEST DAILY MEAN	6910	Sep 18	2940	Mar 29	9140	Jun 23 1972
LOWEST DAILY MEAN	31	Jul 10	12	Sep 12	6.4	Sep 6 1964
ANNUAL SEVEN-DAY MINIMUM	40	Jul 4	13	Sep 9	6.7	Aug 5 1966
MAXIMUM PEAK FLOW			3530	Jan 6	a19400	Jul 20 1977
MAXIMUM PEAK STAGE			8.25	Jan 6	14.15	Jul 20 1977
INSTANTANEOUS LOW FLOW			11	Aug 6b	2.6	Sep 6 1964
ANNUAL RUNOFF (CFSM)	2.11		1.44		1.37	
ANNUAL RUNOFF (INCHES)	28.77		19.59		18.60	
10 PERCENT EXCEEDS	760		653		575	
50 PERCENT EXCEEDS	154		114		100	
90 PERCENT EXCEEDS	58		18		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.
 b Also Sept. 27.

