



2005 Water Year
POTOMAC RIVER BASIN
01601000 Wills Creek below Hyndman, PA

Latitude: 39° 48 ' 43"

Longitude: 078° 43 ' 00"

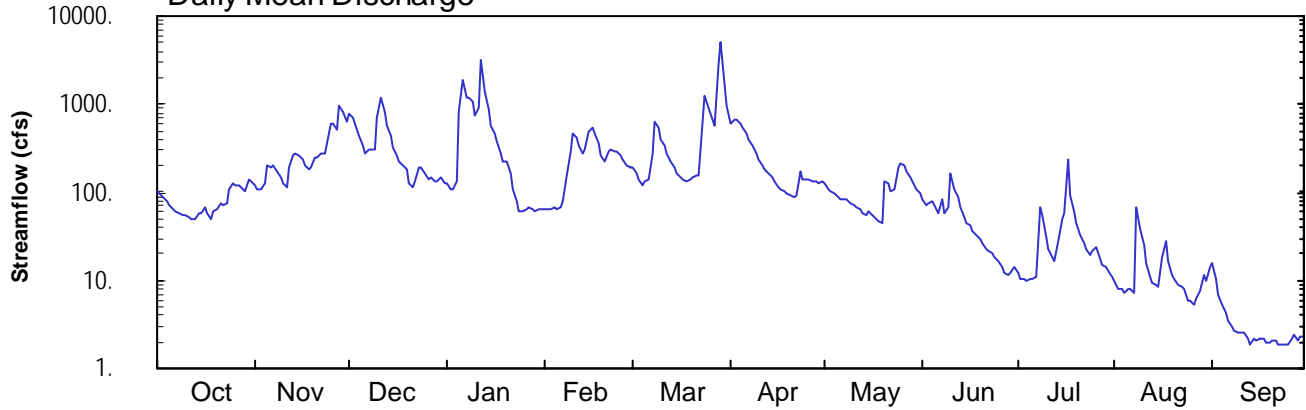
Hydrologic Unit Code: 02070002

Bedford County

Datum: 893.37 feet

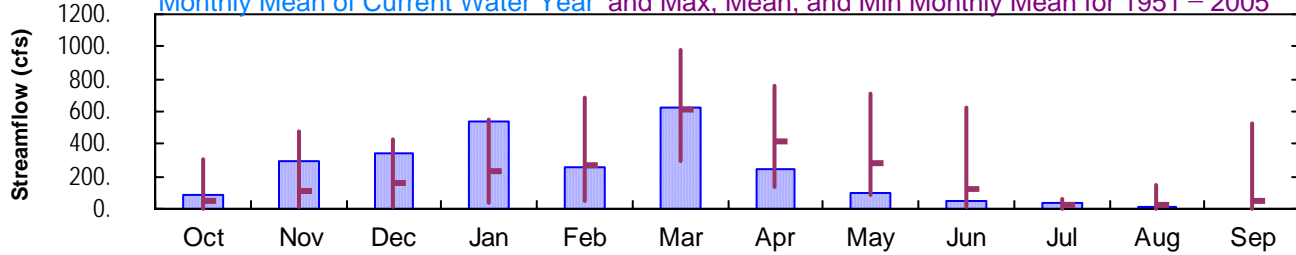
Drainage Area: 146. mi²

Daily Mean Discharge

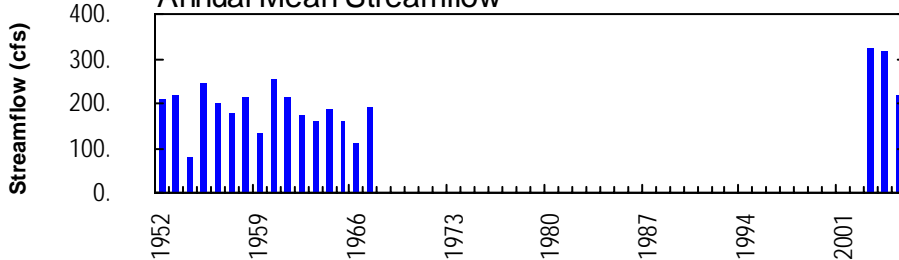


Monthly Statistics

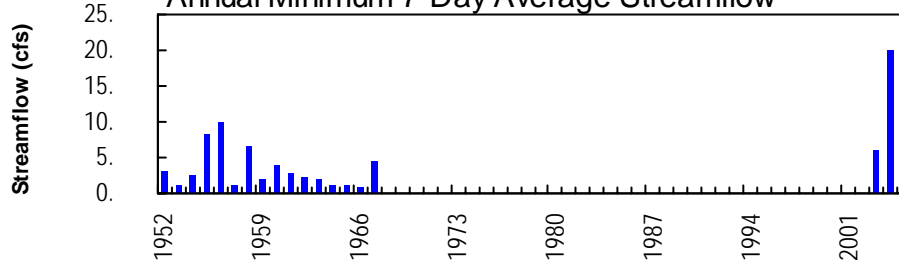
Monthly Mean of Current Water Year and Max, Mean, and Min Monthly Mean for 1951 – 2005



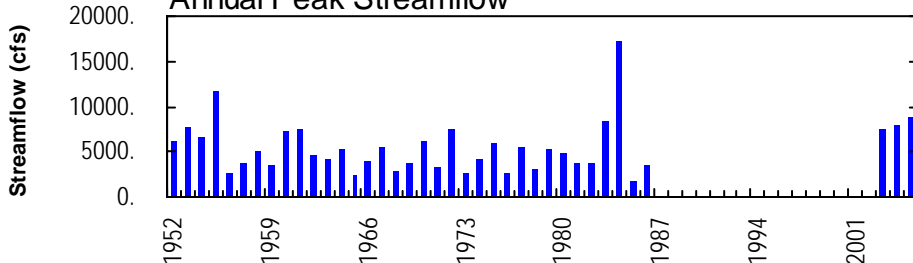
Annual Mean Streamflow



Annual Minimum 7-Day Average Streamflow



Annual Peak Streamflow



POTOMAC RIVER BASIN

01601000 WILLS CREEK BELOW HYNDMAN, PA

LOCATION.--Lat 39°48'43", long 78°43'00", Bedford County, Hydrologic Unit 02070004, on left bank 150 ft upstream from county highway bridge, 150 ft downstream from Pennsylvania Railroad bridge, 0.35 mi downstream from Little Wills Creek, and 0.5 mi south of Hyndman.

DRAINAGE AREA.--146 mi².

PERIOD OF RECORD.--Occasional low-flow measurements, water years 1983-91, and crest-stage partial-record, water years 1968-86. June 1951 to September 1967, April 2002 to current year.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 893.37 ft above National Geodetic Vertical Datum of 1929 (Pennsylvania Railroad Bench mark).

REMARKS.--Records fair except those for period Sept. 1-30, and those for estimated daily discharges, which are poor. Several measurements of water temperature were made during the year. Satellite telemetry at station.

PEAK DISCHARGES FOR CURRENT YEAR.--Peak discharges greater than a base discharge of 2,100 ft³/s and maximum (*):

Date	Time	Discharge ft ³ /s	Gage Height (ft)	Date	Time	Discharge ft ³ /s	Gage Height (ft)
Jan. 12	0530	3,790	5.42	Mar. 28	2330	*8,860	*9.04

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	101	119	787	123	e64	188	611	124	82	12	9.7	16
2	94	111	693	107	e65	161	682	109	71	10	8.2	10
3	87	108	590	107	e65	138	658	104	75	10	7.9	6.9
4	79	124	446	136	e66	e120	591	95	79	9.7	7.3	5.4
5	72	200	342	827	66	e130	538	88	64	10	8.1	4.2
6	66	196	283	1920	67	141	468	84	59	10	8.2	3.5
7	61	200	299	1200	77	270	397	83	83	11	7.4	2.9
8	58	175	307	1180	152	646	344	84	57	67	66	2.7
9	56	148	311	1070	292	532	281	75	68	55	38	2.6
10	54	128	696	736	460	404	240	71	167	31	25	2.6
11	52	115	1210	928	414	333	206	67	105	22	15	e2.5
12	50	193	816	3110	344	279	182	63	87	18	11	e2.2
13	50	267	579	1400	278	229	167	58	66	16	9.5	e1.9
14	57	269	430	884	309	190	150	56	53	28	8.9	e2.2
15	57	261	317	587	502	163	134	61	46	50	8.6	e2.1
16	66	235	258	476	539	149	116	55	42	58	18	e2.2
17	59	204	229	386	452	141	106	50	37	234	27	e2.2
18	49	180	199	281	358	136	102	47	33	93	17	e2.0
19	61	194	182	e220	e260	137	96	44	29	62	12	e2.0
20	63	253	125	e225	e220	146	91	132	26	45	11	e2.1
21	75	246	e115	e160	294	152	87	125	23	33	9.0	e2.1
22	73	269	e135	e110	302	153	91	103	21	27	8.3	e1.9
23	73	271	190	e80	289	623	177	111	21	23	7.9	e1.9
24	106	361	190	e60	285	1250	141	188	18	19	6.0	e1.9
25	126	588	160	e62	264	909	141	209	16	21	5.7	e1.9
26	123	601	e140	e64	231	669	139	201	14	24	5.4	e2.2
27	120	506	e145	e66	198	570	135	172	12	17	6.1	e2.4
28	110	949	e130	e64	194	2840	130	147	11	15	7.7	e2.1
29	105	843	e135	e62	---	5000	129	131	12	14	11	e2.3
30	141	638	144	e63	---	1690	131	109	14	13	9.8	2.3
31	131	---	128	e64	---	943	---	97	---	11	14	---
TOTAL	2475	8952	10711	16758	7107	19432	7461	3143	1491	1068.7	414.7	99.2
MEAN	79.8	298	346	541	254	627	249	101	49.7	34.5	13.4	3.31
MAX	141	949	1210	3110	539	5000	682	209	167	234	66	16
MIN	49	108	115	60	64	120	87	44	11	9.7	5.4	1.9
CFSM	0.55	2.04	2.37	3.70	1.74	4.29	1.70	0.69	0.34	0.24	0.09	0.02
IN.	0.63	2.28	2.73	4.27	1.81	4.95	1.90	0.80	0.38	0.27	0.11	0.03

STATISTICS OF MONTHLY MEAN DATA FOR PERIOD OF DAILY RECORD, BY WATER YEAR (WY)

MEAN	52.2	113	165	237	274	615	422	277	127	29.1	29.1	52.6
MAX	311	483	425	549	689	983	762	707	621	59.9	146	522
(WY)	1955	2004	2004	1952	1961	1963	1964	2003	2003	1960	1955	2004
MIN	3.15	6.49	10.2	36.5	47.6	294	131	80.3	15.3	3.40	2.68	3.31
(WY)	1964	1954	1966	1954	1954	1957	1954	1963	1965	1965	1957	2005

e Estimated.

POTOMAC CREEK BASIN

01601000 WILLS CREEK BELOW HYNDMAN, PA--Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		FOR PERIOD OF DAILY RECORD	
ANNUAL TOTAL	104800		79112.6			
ANNUAL MEAN	286		217		200	
HIGHEST ANNUAL MEAN					325	2003
LOWEST ANNUAL MEAN					80.4	1954
HIGHEST DAILY MEAN	4310	Sep 18	5000	Mar 29	5000	Mar 29 2005
LOWEST DAILY MEAN	16	Jul 10	1.9	Sep 13 ^{ae}	0.70	Sep 12 1966
ANNUAL SEVEN-DAY MINIMUM	20	Jul 5	2.0	Sep 19	0.84	Aug 5 1966
MAXIMUM PEAK FLOW			c8860	Mar 28	c17100	Jun 21 1984
MAXIMUM PEAK STAGE			9.04	Mar 28	13.76	Jun 21 1984
ANNUAL RUNOFF (CFSM)	1.96		1.48		1.37	
ANNUAL RUNOFF (INCHES)	26.70		20.16		18.57	
10 PERCENT EXCEEDS	613		574		500	
50 PERCENT EXCEEDS	140		105		70	
90 PERCENT EXCEEDS	31		7.9		6.0	

- a Also Sept. 22-25, could have been lower.
b Computed using estimated daily discharges.
c From rating curve extended above 3,200 ft³/s.
e Estimated.

