



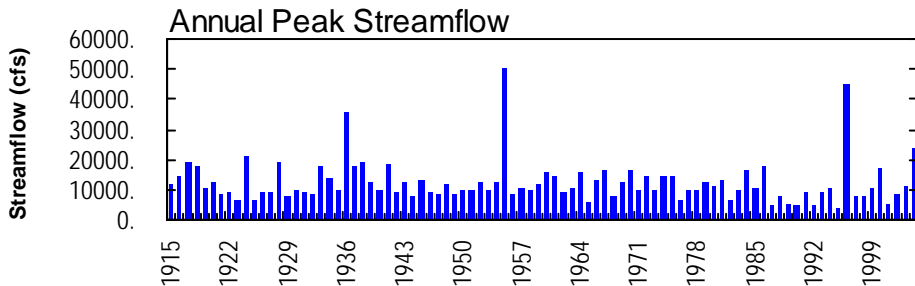
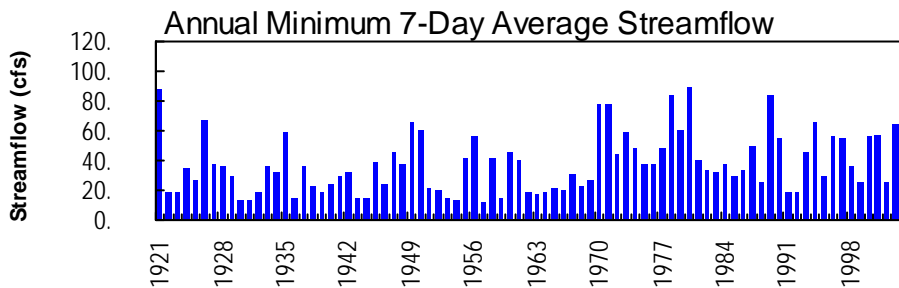
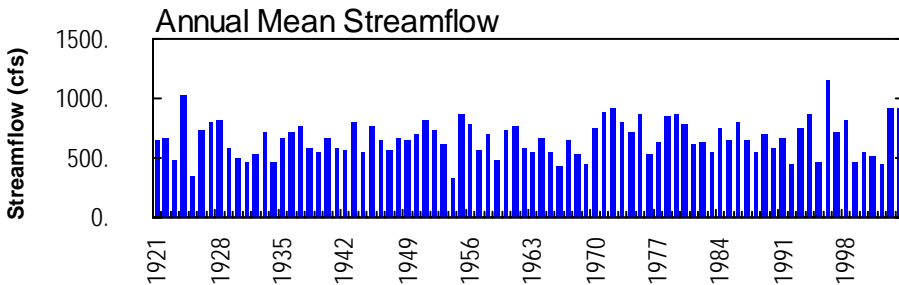
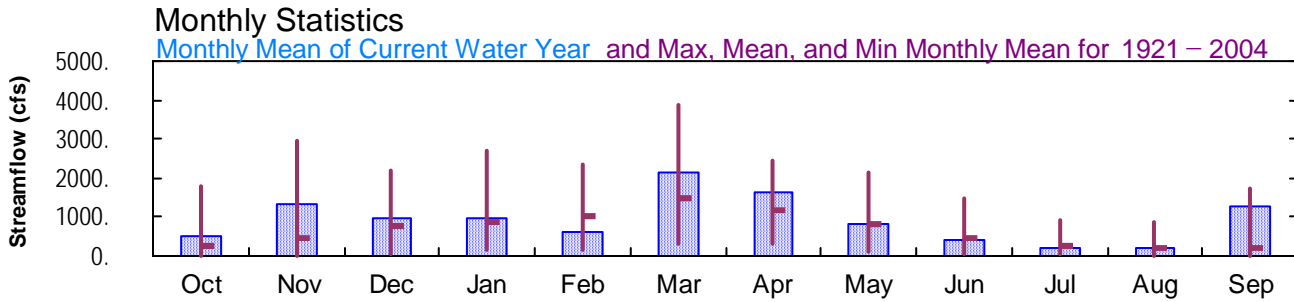
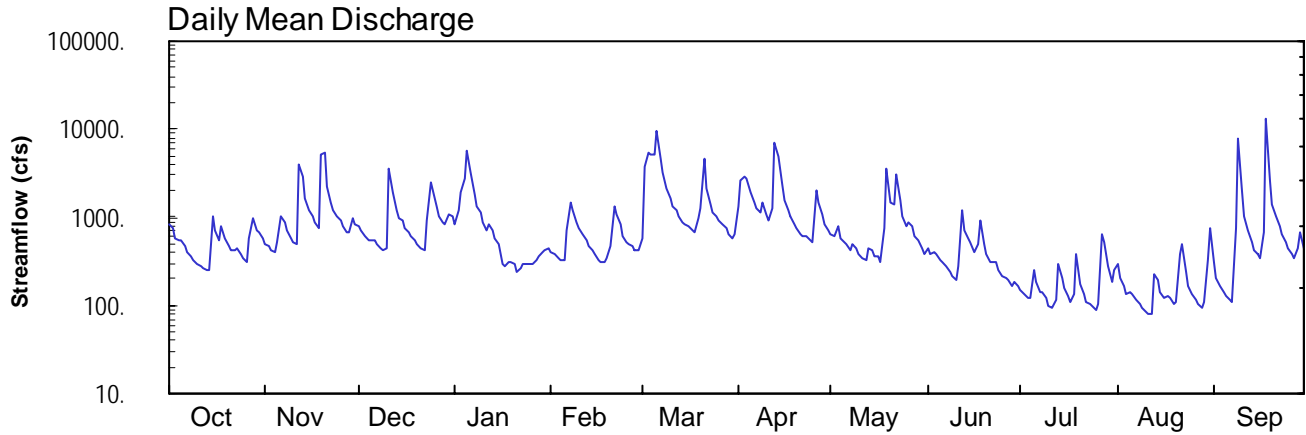
2004 Water Year YOUGHIOGHENY RIVER BASIN

03079000 Casselman River at Markleton, PA

Latitude: 39° 51 ' 35"
Somerset County

Longitude: 079° 13 ' 40"
Datum: 1655.29 feet

Hydrologic Unit Code: 05020006
Drainage Area: 382. mi²



YOUGHIOGHENY RIVER BASIN

03079000 CASSELMAN RIVER AT MARKLETON, PA

LOCATION.--Lat 39°51'35", long 79°13'40", Somerset County, Hydrologic Unit 05020006, on right bank at downstream side of highway bridge at Markleton, 2 mi southwest of Casselman, and 7 mi downstream from Coxes Creek.

DRAINAGE AREA.--382 mi².

PERIOD OF RECORD.--August to September 1913 (gauge heights and discharge measurements only), October 1920 to current year. Monthly discharge only for some periods, published in WSP 1305. October 1913 to September 1920 (gauge heights and discharge measurements only) in reports of Water Supply Commission of Pennsylvania.

REVISED RECORDS.--WSP 743: Drainage area. WSP 1305: 1923-31. WSP 1435: 1932-34, 1935 (M), 1936-38. WSP 1625: 1924 (M).

GAGE.--Water-stage recorder. Datum of gage is 1,655.29 ft above National Geodetic Vertical Datum of 1929. Prior to Nov. 19, 1940, nonrecording gage at same site and datum.

REMARKS.--Records good except those for estimated daily discharges, which are poor. Slight diversion upstream of station to city of Frostburg, MD, in the Potomac River Basin. Several measurements of water temperature were made during the year. U.S. Army Corps of Engineers satellite telemetry at station.

PEAK DISCHARGES FOR CURRENT YEAR.--Peak discharges greater than a base discharge of 8,000 ft³/s and maximum (*):

Date	Time	Discharge ft ³ /s	Gage Height (ft)	Date	Time	Discharge ft ³ /s	Gage Height (ft)
Nov. 19	2100	12,300	8.00	Apr. 13	1800	10,400	7.48
Mar. 2	2300	9,470	7.16	Sept. 9	0400	11,500	7.79
Mar. 6	0800	10,900	7.63	Sept. 18	0500	*23,900	*10.35

**DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES**

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	826	505	803	844	e397	e565	1360	631	437	148	290	309
2	743	475	703	1230	e380	3760	2610	595	389	134	209	202
3	591	427	598	1930	e344	5480	2960	783	405	125	163	164
4	552	396	549	2710	e335	5190	2750	593	375	122	137	142
5	563	521	538	5630	e334	5200	1940	524	324	255	140	126
6	461	1020	548	3300	e702	9650	1480	483	310	185	132	115
7	398	895	497	1870	e1500	4760	1290	430	277	143	116	107
8	355	705	439	1360	e1200	3230	1160	504	242	140	104	745
9	319	585	431	1170	e879	2170	1460	439	217	119	92	7860
10	299	522	455	878	e751	1680	1070	373	199	101	84	2070
11	279	505	3610	705	e629	1360	917	338	276	92	80	1020
12	263	4030	1880	824	e559	1230	1260	321	1220	117	80	696
13	248	2930	1200	729	e478	1010	7140	437	730	289	229	528
14	248	1610	998	e592	e424	867	4890	416	593	200	195	424
15	1010	1220	922	e493	e374	838	2300	359	509	161	143	377
16	706	1030	750	e299	e324	782	1540	371	408	130	121	341
17	544	886	e676	e276	e315	739	1210	318	505	108	125	694
18	786	750	e615	e307	e306	677	1010	763	949	132	119	12800
19	594	5070	e554	e307	e342	951	854	3670	506	376	106	2690
20	479	5530	e501	e297	e478	1250	733	1460	379	178	108	1430
21	416	2190	e448	e234	e1360	4590	655	1410	312	133	386	1040
22	421	1480	e433	e272	e1060	2140	603	2990	306	112	508	803
23	456	1170	e927	e297	e820	1380	616	1550	306	104	233	629
24	392	1000	2480	e297	e617	1130	556	1040	253	98	165	516
25	344	939	2000	e297	e515	1030	526	782	214	88	135	441
26	316	775	1320	e297	e497	921	2050	857	209	105	114	387
27	589	679	1050	e327	e465	837	1440	777	191	645	102	339
28	957	681	896	e366	e434	757	1060	602	170	519	95	447
29	726	991	825	e395	e416	652	851	545	186	280	111	675
30	691	813	1080	e425	---	583	709	437	167	188	334	456
31	565	---	1010	e443	---	626	---	386	---	258	764	---
TOTAL	16137	40330	29736	29401	17235	66035	49000	25184	11564	5785	5720	38573
MEAN	521	1344	959	948	594	2130	1633	812	385	187	185	1286
MAX	1010	5530	3610	5630	1500	9650	7140	3670	1220	645	764	12800
MIN	248	396	431	234	306	565	526	318	167	88	80	107
CFSM	1.36	3.52	2.51	2.48	1.56	5.58	4.28	2.13	1.01	0.49	0.48	3.37
IN.	1.57	3.93	2.90	2.86	1.68	6.43	4.77	2.45	1.13	0.56	0.56	3.76

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1921 - 2004, BY WATER YEAR (WY)

MEAN	275	475	754	855	1036	1491	1164	801	454	259	219	216
MAX	1769	2975	2217	2709	2324	3860	2437	2147	1499	920	842	1756
(WY)	1955	1986	1973	1937	1956	1936	1970	1924	1941	1924	1956	1996
MIN	14.9	22.6	55.3	133	153	307	316	126	60.6	35.6	24.5	19.9
(WY)	1954	1954	1999	1925	1934	1990	1921	1926	1965	1965	1957	1943

e Estimated.

YOUGHIOGHENY RIVER BASIN

03079000 CASSELMAN RIVER AT MARKLETON, PA--Continued

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1921 - 2004	
ANNUAL TOTAL	370834		334700			
ANNUAL MEAN	1016		914		665	
HIGHEST ANNUAL MEAN					1151	1996
LOWEST ANNUAL MEAN					336	1954
HIGHEST DAILY MEAN	6600	Sep 19	12800	Sep 18	e25000	Jan 19 1996
LOWEST DAILY MEAN	47	Aug 25	80	Aug 11,12	11	Jul 23 1936a
ANNUAL SEVEN-DAY MINIMUM	63	Aug 19	98	Aug 6	12	Sep 4 1957
MAXIMUM PEAK FLOW			23900	Sep 18	b50000	Oct 15 1954
MAXIMUM PEAK STAGE			10.35	Sep 18	14.06	Oct 15 1954
INSTANTANEOUS LOW FLOW			75	Aug 12	10	Sep 9 1957
ANNUAL RUNOFF (CFSM)	2.66		2.39		1.74	
ANNUAL RUNOFF (INCHES)	36.11		32.59		23.64	
10 PERCENT EXCEEDS	2380		1900		1540	
50 PERCENT EXCEEDS	675		527		343	
90 PERCENT EXCEEDS	176		136		57	

a Also Sept. 7-9, 1957.

b Estimated on basis of summation of peak flows at nearby stations.

e Estimated.