

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 (gage 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 (gage 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)
Jan. 1	2300	10,500	7.51	June 4	0100	*11,000	*7.64
May 10	1800	9,440	7.15	Sept. 19	1400	10,300	7.44

**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	120	638	e350	4640	e246	829	789	299	3430	226	166	243
2	100	598	e301	6210	e244	848	1300	292	1860	209	144	1020
3	89	464	e264	2720	e265	768	990	265	3370	205	181	1570
4	110	387	e232	1870	e390	697	831	261	6540	196	183	948
5	103	349	e243	1400	e780	1020	1980	358	2790	196	182	716
6	86	1340	e243	1180	e560	3670	1640	660	1780	194	138	489
7	70	1160	e249	1010	e380	3090	1800	470	3320	329	121	367
8	56	830	e256	917	e300	2040	2150	1780	3060	797	163	298
9	52	634	e261	962	e290	4240	2230	3470	2040	1130	282	252
10	49	533	e260	1070	e280	2760	2120	6400	1430	713	280	215
11	115	572	e260	819	e270	1740	2070	4290	1150	1500	172	194
12	345	639	e265	661	e260	1530	2010	2310	947	714	209	173
13	235	1150	e363	572	e250	2630	1490	3630	1180	556	204	164
14	161	787	694	e502	e240	4430	1200	2210	1010	428	138	171
15	126	620	652	e438	e230	3630	1020	1600	898	330	111	172
16	372	534	585	e360	e220	4230	874	1660	761	287	94	169
17	712	1030	504	e341	e240	4720	773	1390	663	234	90	166
18	390	1140	494	e295	e230	4430	675	1360	1180	205	128	137
19	270	901	452	e254	e250	3720	605	1230	802	198	88	6600
20	216	1040	2780	e246	e270	3630	553	1030	804	192	73	3310
21	190	816	2520	e237	e300	3850	532	1200	1260	170	63	1380
22	171	718	1450	e239	e395	2840	556	1010	983	161	59	959
23	150	631	1300	e238	e1450	2040	488	1250	754	166	59	1900
24	133	549	1000	e238	2580	1570	415	1260	602	178	55	1200
25	124	546	890	e235	1620	1290	384	1020	485	163	47	923
26	356	501	766	e264	1170	1140	369	1250	405	139	152	907
27	363	482	643	e237	1050	1000	366	1020	357	122	313	777
28	257	434	579	e237	904	833	323	935	320	114	911	2280
29	295	399	551	e243	---	755	304	919	281	113	377	1300
30	1350	e376	485	e247	---	750	299	755	251	120	246	947
31	842	---	649	e250	---	722	---	903	---	110	286	---
TOTAL	8008	20798	20541	29132	15664	71442	31136	46487	44713	10395	5715	29947
MEAN	258	693	663	940	559	2305	1038	1500	1490	335	184	998
MAX	1350	1340	2780	6210	2580	4720	2230	6400	6540	1500	911	6600
MIN	49	349	232	235	220	697	299	261	251	110	47	137
CFSM	0.68	1.81	1.73	2.46	1.46	6.03	2.72	3.93	3.90	0.88	0.48	2.61
IN.	0.78	2.03	2.00	2.84	1.53	6.96	3.03	4.53	4.35	1.01	0.56	2.92

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1921 - 2003, BY WATER YEAR (WY)

MEAN	272	464	751	854	1042	1483	1159	801	455	260	219	203
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.

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03079000 CASSELMAN RIVER AT MARKLETON, PA--Continued

SUMMARY STATISTICS	FOR 2002 CALENDAR YEAR		FOR 2003 WATER YEAR		WATER YEARS 1921 - 2003	
ANNUAL TOTAL	200106		333978			
ANNUAL MEAN	548		915		662	
HIGHEST ANNUAL MEAN					1151	1996
LOWEST ANNUAL MEAN					336	1954
HIGHEST DAILY MEAN	5270	Mar 20	6600	Sep 19	e 25000	Jan 19 1996
LOWEST DAILY MEAN	23	Sep 13	47	Aug 25	11	Jul 23 1936 ^a
ANNUAL SEVEN-DAY MINIMUM	25	Sep 9	63	Aug 19	12	Sep 4 1957
MAXIMUM PEAK FLOW			11000	Jun 4	b 50000	Oct 15 1954
MAXIMUM PEAK STAGE			7.64	Jun 4	14.06	Oct 15 1954
INSTANTANEOUS LOW FLOW			45	Aug 25	10	Sep 9 1957
ANNUAL RUNOFF (CFSM)	1.44		2.40		1.73	
ANNUAL RUNOFF (INCHES)	19.49		32.52		23.54	
10 PERCENT EXCEEDS	1250		2170		1540	
50 PERCENT EXCEEDS	350		534		340	
90 PERCENT EXCEEDS	54		148		56	

a Also Sept. 7-9, 1957.

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

e Estimated.

