

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 sea level. 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 above 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)
Feb. 19	0900	*17,000	*9.11	Aug. 6	2100	15,800	8.86

**DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES**

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	128	48	225	214	e170	898	499	483	690	233	1030	145
2	89	59	191	213	e165	845	461	689	562	196	523	150
3	69	187	204	262	e160	701	554	587	481	182	362	168
4	85	218	189	296	e150	604	1400	458	404	275	358	178
5	98	150	185	320	e145	538	1400	407	363	239	312	151
6	86	129	174	242	e135	471	1120	375	2690	185	5540	134
7	71	114	160	223	e130	419	901	349	3120	152	7090	114
8	59	98	146	195	e125	391	839	317	1590	129	1720	104
9	61	85	133	227	e120	374	950	295	1080	112	1040	100
10	185	78	167	228	e115	369	856	276	791	115	743	100
11	352	76	439	350	e110	417	784	255	608	325	543	204
12	194	71	332	367	e150	1010	1120	234	e505	326	427	219
13	126	68	279	338	e540	773	919	231	e488	193	364	195
14	134	65	945	331	e2000	617	776	269	e482	146	324	157
15	119	62	1500	239	2620	543	691	232	e544	375	278	133
16	102	60	866	333	1540	498	618	196	e580	319	245	159
17	89	58	599	191	1620	669	1240	180	e453	274	214	163
18	77	57	467	204	1500	592	1890	183	372	196	206	131
19	69	54	399	258	12600	487	1290	364	404	167	216	109
20	67	56	358	259	3840	445	1060	1520	359	250	189	109
21	65	63	349	214	2000	793	1550	961	289	221	163	105
22	62	64	307	e175	1500	1370	3100	580	389	175	152	98
23	59	68	256	e190	1400	1680	2620	571	308	150	159	89
24	62	67	185	e210	1500	1430	1790	1080	239	133	184	87
25	68	154	e170	e230	1500	1170	1340	945	204	160	183	108
26	65	1120	e160	e230	1260	973	1090	628	213	143	164	1220
27	66	1390	e170	e220	1060	803	905	512	331	122	182	814
28	61	606	e190	e210	1330	743	767	990	873	122	302	444
29	56	374	212	e200	1030	737	659	2090	412	296	258	316
30	53	284	243	e190	---	689	561	1180	294	234	185	247
31	50	---	216	e180	---	585	---	875	---	1740	145	---
TOTAL	2927	5983	10416	7539	40515	22634	33750	18312	20118	7885	23801	6451
MEAN	94.4	199	336	243	1397	730	1125	591	671	254	768	215
MAX	352	1390	1500	367	12600	1680	3100	2090	3120	1740	7090	1220
MIN	50	48	133	175	110	369	461	180	204	112	145	87
CFSM	.25	.52	.88	.64	3.66	1.91	2.95	1.55	1.76	.67	2.01	.56
IN.	.29	.58	1.01	.73	3.95	2.20	3.29	1.78	1.96	.77	2.32	.63

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1921 - 2000, BY WATER YEAR (WY)

MEAN	276	469	763	864	1051	1482	1164	790	441	261	222	196
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

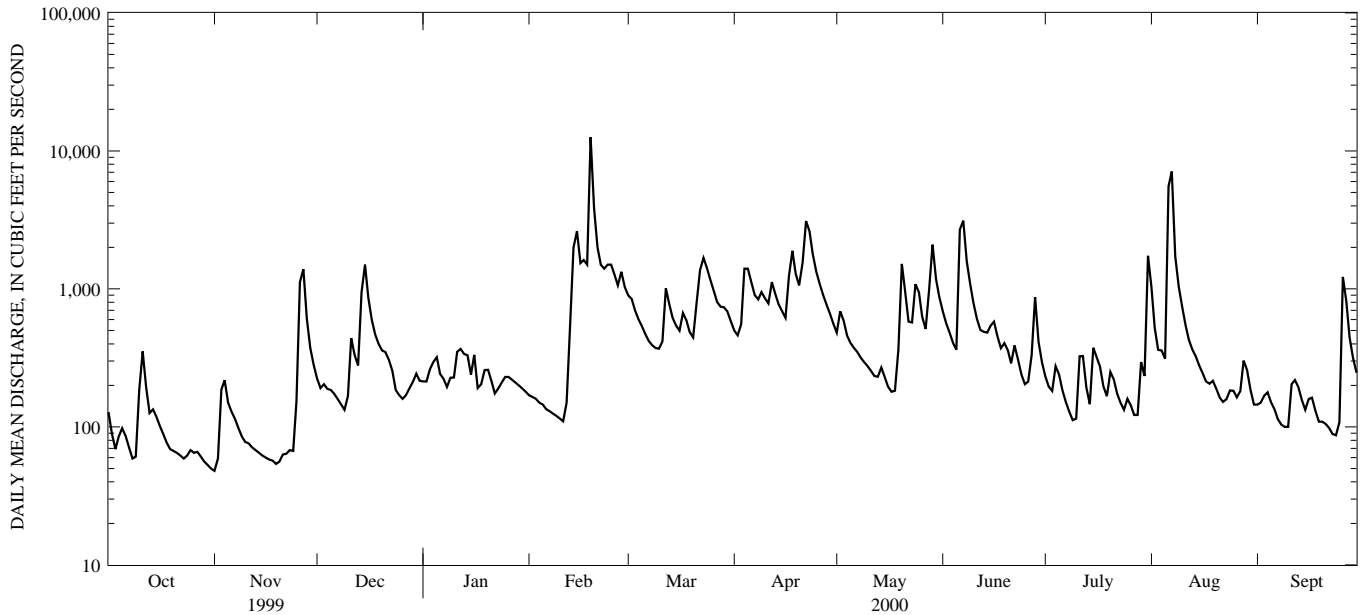
e Estimated.

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03079000 CASSELMAN RIVER AT MARKLETON, PA--Continued

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1921 - 2000	
ANNUAL TOTAL	183776		200331			
ANNUAL MEAN	503		547		663	
HIGHEST ANNUAL MEAN					1151	1996
LOWEST ANNUAL MEAN					336	1954
HIGHEST DAILY MEAN	7660	Jan 24	12600	Feb 19	e25000	Jan 19 1996
LOWEST DAILY MEAN	21	Sep 4	48	Nov 1	11	Jul 23 1936a
ANNUAL SEVEN-DAY MINIMUM	26	Aug 30	56	Oct 27	12	Sep 4 1957
INSTANTANEOUS PEAK FLOW			17000	Feb 19	b50000	Oct 15 1954
INSTANTANEOUS PEAK STAGE			9.11	Feb 19	14.06	Oct 15 1954
INSTANTANEOUS LOW FLOW			48	Nov 1,2	10	Sep 9 1957
ANNUAL RUNOFF (CFSM)	1.32		1.43		1.74	
ANNUAL RUNOFF (INCHES)	17.90		19.51		23.59	
10 PERCENT EXCEEDS	1400		1270		1540	
50 PERCENT EXCEEDS	158		260		341	
90 PERCENT EXCEEDS	39		85		55	

- a Also Sept. 7-9, 1957.
- b Estimated on basis of summation of peak flows at nearby stations.
- e Estimated.



1-YEAR HYDROGRAPH
OCTOBER 1, 1999 TO SEPTEMBER 30, 2000