

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 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)
Mar. 20	1900	*8,750	*6.92	No other peak greater than base discharge.			

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	77	44	134	e167	605	256	1600	1750	520	131	62	47
2	72	44	117	e164	490	284	1160	2180	457	118	76	43
3	72	65	99	e164	415	569	942	1960	368	111	70	43
4	69	80	87	e167	392	639	804	1280	339	108	66	41
5	65	77	78	e169	321	428	682	1020	330	93	66	38
6	63	65	73	165	329	453	607	832	507	83	289	34
7	62	54	74	e161	345	409	543	1080	1020	76	161	32
8	59	50	86	e164	329	369	494	1760	552	72	101	30
9	60	47	254	e166	304	336	460	3530	389	74	71	28
10	61	45	265	e210	301	318	512	2780	321	111	57	26
11	75	44	175	1030	1050	273	437	1450	282	100	50	26
12	65	42	140	894	799	268	378	1190	264	118	46	24
13	60	40	130	e515	634	263	363	1670	520	90	43	23
14	58	40	155	e385	470	261	392	2100	930	94	41	23
15	121	41	320	e371	437	245	928	1550	679	119	39	25
16	134	40	258	346	416	351	812	1140	571	132	40	34
17	106	42	209	307	401	458	592	949	463	100	43	34
18	88	41	858	281	353	1350	512	3630	365	84	47	30
19	77	41	817	224	327	1670	463	2580	309	82	43	30
20	67	44	487	215	375	5270	428	1620	268	93	86	53
21	59	48	378	242	505	4770	503	1230	234	92	78	43
22	53	49	291	233	470	2190	1460	1000	205	73	52	39
23	49	47	261	247	389	1470	1210	823	185	63	51	54
24	50	45	260	1450	344	1200	865	697	171	62	293	63
25	47	179	242	1990	324	999	721	642	161	67	252	55
26	43	288	177	1010	313	1270	633	565	153	64	139	64
27	41	210	158	726	322	2380	532	482	145	215	93	394
28	44	242	166	585	274	1350	3060	511	213	274	69	539
29	45	203	e164	503	---	1080	3620	1140	186	156	59	241
30	45	147	162	476	---	909	1810	724	155	101	56	154
31	45	---	165	706	---	793	---	529	---	76	51	---
TOTAL	2032	2444	7240	14433	12034	32881	27523	44394	11262	3232	2690	2310
MEAN	65.5	81.5	234	466	430	1061	917	1432	375	104	86.8	77.0
MAX	134	288	858	1990	1050	5270	3620	3630	1020	274	293	539
MIN	41	40	73	161	274	245	363	482	145	62	39	23
CFSM	0.17	0.21	0.61	1.22	1.13	2.78	2.40	3.75	0.98	0.27	0.23	0.20
IN.	0.20	0.24	0.71	1.41	1.17	3.20	2.68	4.32	1.10	0.31	0.26	0.22

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1921 - 2002, BY WATER YEAR (WY)

MEAN	272	461	752	853	1047	1473	1160	792	443	259	220	194
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 2001 CALENDAR YEAR		FOR 2002 WATER YEAR		WATER YEARS 1921 - 2002	
ANNUAL TOTAL	174448		162475		659	
ANNUAL MEAN	478		445		1151	
HIGHEST ANNUAL MEAN					1996	
LOWEST ANNUAL MEAN					1954	
HIGHEST DAILY MEAN	4290	Feb 10	5270	Mar 20	e25000	Jan 19 1996
LOWEST DAILY MEAN	40	Nov 13	23	Sep 13,14	11	Jul 23 1936a
ANNUAL SEVEN-DAY MINIMUM	41	Nov 13	25	Sep 9	12	Sep 4 1957
MAXIMUM PEAK FLOW			8750	Mar 20	b50000	Oct 15 1954
MAXIMUM PEAK STAGE			6.92	Mar 20	14.06	Oct 15 1954
INSTANTANEOUS LOW FLOW			22	Sep 13,14	10	Sep 9 1957
ANNUAL RUNOFF (CFSM)	1.25		1.17		1.72	
ANNUAL RUNOFF (INCHES)	16.99		15.82		23.43	
10 PERCENT EXCEEDS	1210		1140		1530	
50 PERCENT EXCEEDS	204		215		339	
90 PERCENT EXCEEDS	57		44		55	

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

