

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)
Jan. 24	1000	8,280	6.76	Apr. 9	2400	*10,800	*7.58

**DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
DAILY MEAN VALUES**

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	43	44	44	e52	578	728	1330	513	131	89	80	26
2	42	43	43	e54	801	519	1270	457	135	95	110	23
3	41	45	43	e52	835	645	1040	411	174	99	75	22
4	67	43	42	e54	706	1530	938	386	158	74	63	21
5	78	42	43	e76	674	1090	1180	362	134	63	53	25
6	71	42	43	e84	622	943	952	342	113	53	44	49
7	60	43	44	e78	788	1110	829	328	102	49	39	148
8	135	42	50	e70	2230	832	695	357	94	47	46	96
9	199	43	75	e90	1430	792	3840	332	87	40	74	67
10	147	47	69	e200	1090	696	6590	282	81	49	60	50
11	107	57	64	e400	865	604	4310	250	76	56	51	40
12	87	52	54	e500	757	567	4880	229	72	50	44	34
13	72	47	49	e600	674	498	2900	224	69	44	39	30
14	63	44	47	e1100	556	492	1880	284	68	41	38	30
15	56	43	44	916	495	475	1410	271	74	38	35	43
16	52	44	43	632	507	490	1650	218	74	36	34	56
17	50	43	50	603	490	630	1290	198	88	34	32	68
18	49	44	48	1200	462	3310	1200	185	143	50	29	61
19	46	42	50	1520	415	3690	1220	199	109	51	27	52
20	45	43	51	946	373	2100	1760	200	82	42	26	48
21	45	46	55	823	335	2810	1480	179	71	36	25	56
22	47	44	79	1110	258	3950	1350	163	67	34	26	58
23	49	42	89	3270	238	2180	1610	379	64	34	25	51
24	54	42	91	7660	267	1810	2610	404	59	38	25	46
25	51	42	59	3320	251	1840	1510	405	54	45	28	43
26	48	44	58	1730	261	1620	1190	284	51	39	35	39
27	47	48	59	1220	236	1530	983	227	51	34	47	36
28	47	48	57	1390	417	1490	816	195	54	89	52	37
29	44	48	58	1290	---	1660	688	171	127	256	41	45
30	45	46	60	921	---	1690	589	153	132	201	33	151
31	45	---	54	711	---	1410	---	139	---	103	29	---
TOTAL	2032	1343	1715	32672	17611	43731	53990	8727	2794	2009	1365	1551
MEAN	65.5	44.8	55.3	1054	629	1411	1800	282	93.1	64.8	44.0	51.7
MAX	199	57	91	7660	2230	3950	6590	513	174	256	110	151
MIN	41	42	42	52	236	475	589	139	51	34	25	21
CFSM	.17	.12	.14	2.76	1.65	3.69	4.71	.74	.24	.17	.12	.14
IN.	.20	.13	.17	3.18	1.71	4.26	5.26	.85	.27	.20	.13	.15

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1921 - 1999, BY WATER YEAR (WY)

MEAN	278	472	769	872	1047	1491	1164	793	438	261	215	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

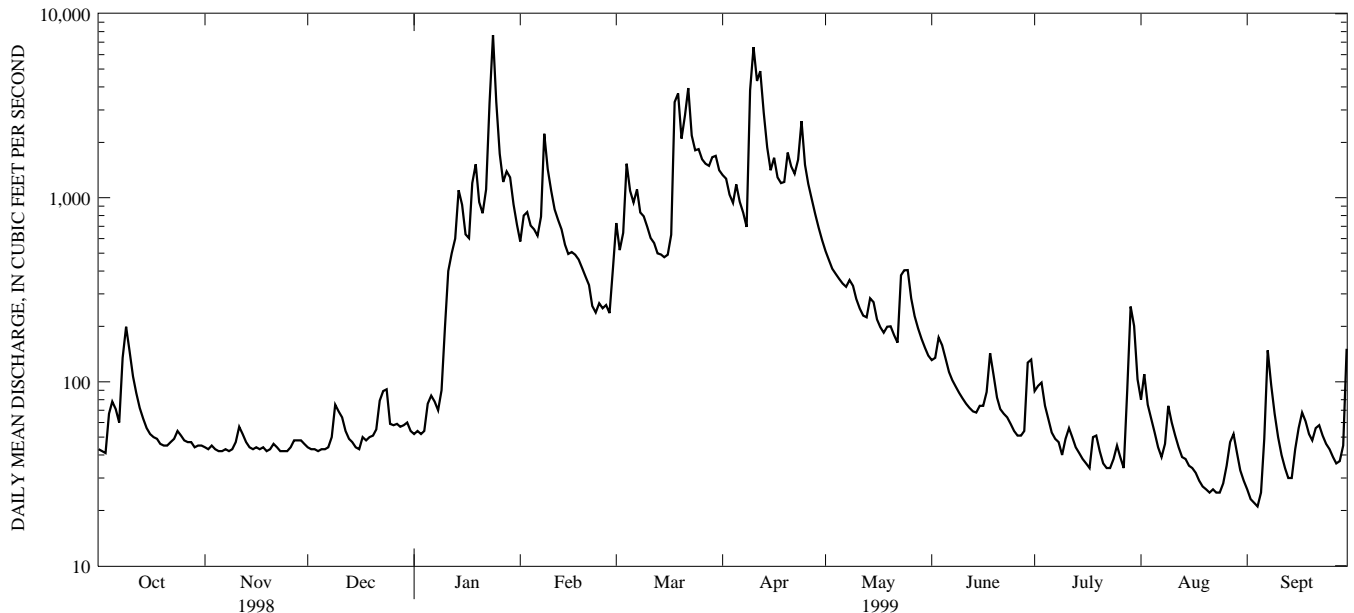
e Estimated.

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03079000 CASSELMAN RIVER AT MARKLETON, PA--Continued

SUMMARY STATISTICS	FOR 1998 CALENDAR YEAR		FOR 1999 WATER YEAR		WATER YEARS 1921 - 1999	
ANNUAL TOTAL	234384		169540		665	
ANNUAL MEAN	642		464		1151	
HIGHEST ANNUAL MEAN					1996	
LOWEST ANNUAL MEAN					336	
HIGHEST DAILY MEAN	6640	Feb 18	7660	Jan 24	e25000	Jan 19 1996
LOWEST DAILY MEAN	34	Sep 17-19	21	Sep 4	11	Jul 23 1936a
ANNUAL SEVEN-DAY MINIMUM	36	Sep 13	26	Aug 30	12	Sep 4 1957
INSTANTANEOUS PEAK FLOW			10800	Apr 9	b50000	Oct 15 1954
INSTANTANEOUS PEAK STAGE			7.58	Apr 9	14.06	Oct 15 1954
INSTANTANEOUS LOW FLOW			19	Sep 4	10	Sep 9 1957
ANNUAL RUNOFF (CFSM)	1.68		1.22		1.74	
ANNUAL RUNOFF (INCHES)	22.82		16.51		23.64	
10 PERCENT EXCEEDS	1620		1370		1540	
50 PERCENT EXCEEDS	256		76		343	
90 PERCENT EXCEEDS	44		39		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, 1998 TO SEPTEMBER 30, 1999