

MAHONING CREEK BASIN

03034500 LITTLE MAHONING CREEK AT McCORMICK, PA

LOCATION.--Lat 40°50'10", long 79°06'37", Indiana County, Hydrologic Unit 05010006, on left bank 200 ft upstream from bridge on SR 4018 at McCormick, 1 mi west of Georgeville, 1.7 mi upstream from Ross Run, and 4 mi southeast of Smicksburg.

DRAINAGE AREA.--87.4 mi².

PERIOD OF RECORD.--October 1939 to current year.

GAGE.--Water-stage recorder. Datum of gage is 1,164.88 ft above sea level (U.S. Army Corps of Engineers benchmark). Prior to May 10, 1940, nonrecording gage at site 200 ft upstream at same datum.

REMARKS.--Records good except those for estimated daily discharges, which are poor. 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 2,000 ft³/s and maximum (*):

Date	Time	Discharge ft ³ /s	Gage Height (ft)	Date	Time	Discharge ft ³ /s	Gage Height (ft)
Jan. 24	1400	*3,290	*10.04	No other peak greater than base discharge.			

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	21	3.6	7.0	e29	174	156	115	96	31	17	5.2	5.3
2	15	3.7	7.5	e28	312	118	118	87	34	20	8.2	4.5
3	12	3.8	8.1	e30	339	141	106	78	40	18	6.2	4.2
4	21	3.5	7.8	e30	285	285	120	73	33	12	4.7	4.0
5	24	3.5	7.3	e28	281	202	373	67	25	8.6	4.5	3.5
6	12	3.5	7.7	e27	222	188	234	62	21	7.2	4.5	4.4
7	6.0	3.7	7.3	e28	211	e163	201	59	21	6.2	4.9	39
8	13	3.8	7.4	e29	520	e145	165	131	24	5.3	5.4	24
9	34	3.8	7.9	e35	348	e130	507	128	19	4.8	11	10
10	14	6.0	12	e55	285	e120	1110	96	15	8.5	8.2	6.5
11	9.8	50	12	e110	224	e110	601	78	13	11	5.9	4.9
12	6.3	41	8.7	e80	217	e100	501	67	11	7.5	4.9	4.2
13	4.8	20	7.4	e92	203	e92	352	60	10	5.8	5.6	3.8
14	3.6	11	6.5	e145	163	e84	269	58	11	5.0	43	4.3
15	3.0	8.6	5.2	e120	145	e80	214	50	13	4.7	22	6.9
16	3.0	7.8	4.2	e105	140	e78	217	43	12	4.5	10	8.0
17	2.9	7.4	6.3	e94	136	e150	225	39	10	4.4	6.7	7.1
18	2.6	6.9	8.0	e105	131	602	209	36	9.7	4.3	6.5	7.5
19	2.6	6.3	8.5	e150	116	447	191	39	9.4	4.6	6.1	6.2
20	4.4	6.5	11	e180	e100	308	219	37	8.7	4.7	6.7	5.1
21	5.2	7.7	25	e145	e85	297	208	30	8.0	4.2	18	6.4
22	4.7	8.7	457	e400	e80	399	263	27	7.6	5.8	24	9.8
23	4.2	7.8	e90	e1100	e78	279	288	43	7.1	21	11	8.0
24	4.5	6.7	e68	2680	e71	241	304	140	6.8	8.2	7.1	5.8
25	3.1	6.4	e62	981	e70	220	241	199	6.4	6.3	6.2	5.0
26	3.0	7.3	e55	519	e68	182	202	108	6.2	5.6	11	4.5
27	2.9	8.4	e51	355	e70	163	171	80	6.1	4.9	50	4.1
28	3.2	8.7	e46	407	e80	151	145	62	22	4.4	38	4.2
29	4.6	7.7	e39	387	---	141	125	51	47	4.5	26	6.1
30	3.9	7.0	e34	274	---	129	109	42	44	5.0	11	208
31	3.4	---	e30	206	---	115	---	35	---	5.3	7.2	---
TOTAL	257.7	280.8	1114.8	8954	5154	6016	8103	2201	532.0	239.3	389.7	425.3
MEAN	8.31	9.36	36.0	289	184	194	270	71.0	17.7	7.72	12.6	14.2
MAX	34	50	457	2680	520	602	1110	199	47	21	50	208
MIN	2.6	3.5	4.2	27	68	78	106	27	6.1	4.2	4.5	3.5
CFSM	.10	.11	.41	3.30	2.11	2.22	3.09	.81	.20	.09	.14	.16
IN.	.11	.12	.47	3.81	2.19	2.56	3.45	.94	.23	.10	.17	.18

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1940 - 1999, BY WATER YEAR (WY)

MEAN	65.6	133	195	207	239	307	239	169	95.4	74.0	54.9	48.2
MAX	251	378	436	569	715	756	525	358	458	445	294	296
(WY)	1955	1986	1991	1952	1975	1963	1948	1956	1972	1977	1958	1996
MIN	3.39	9.36	21.8	26.2	42.7	59.0	48.7	20.5	9.10	4.71	3.85	2.33
(WY)	1964	1999	1961	1940	1993	1969	1946	1941	1949	1966	1957	1952

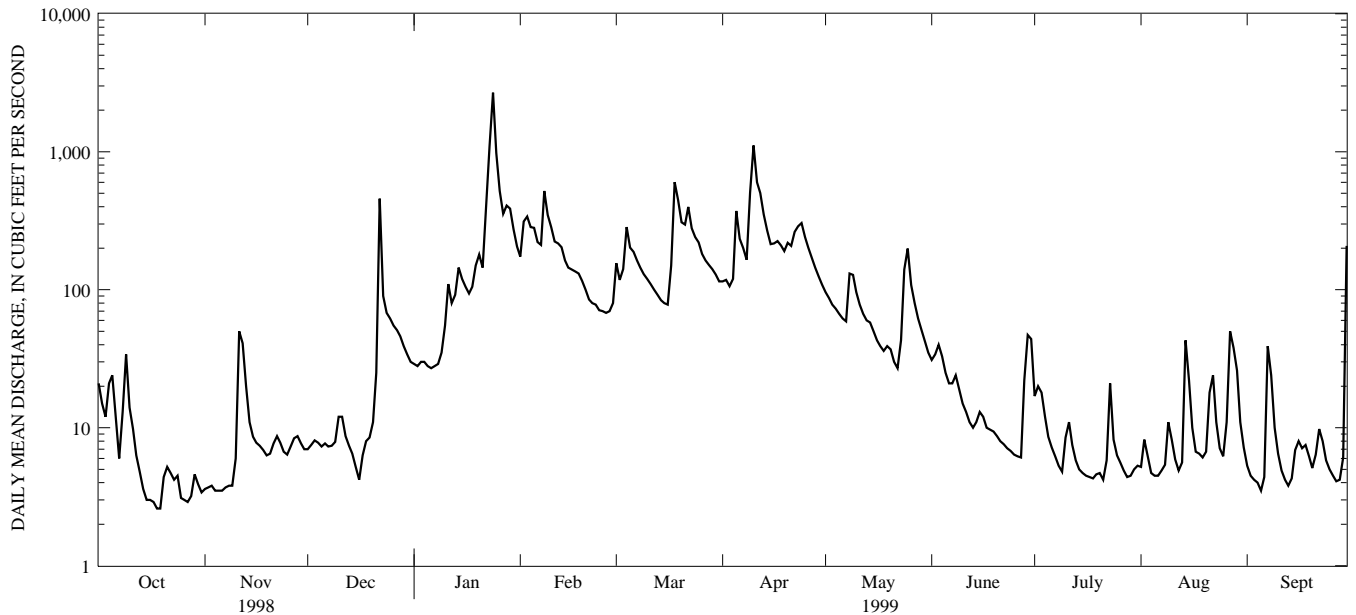
e Estimated.

MAHONING CREEK BASIN

03034500 LITTLE MAHONING CREEK AT McCORMICK, PA--Continued

SUMMARY STATISTICS	FOR 1998 CALENDAR YEAR			FOR 1999 WATER YEAR			WATER YEARS 1940 - 1999	
ANNUAL TOTAL	38861.8			33667.6			152	
ANNUAL MEAN	106			92.2			240	
HIGHEST ANNUAL MEAN							92.2	
LOWEST ANNUAL MEAN							1999	
HIGHEST DAILY MEAN	1450	Jan	8	2680	Jan	24	4620	Jun 23 1972
LOWEST DAILY MEAN	1.8	Aug	9	2.6	Oct	18,19	.40	Sep 28 1959
ANNUAL SEVEN-DAY MINIMUM	2.5	Aug	3	3.2	Oct	14	.69	Sep 23 1959
INSTANTANEOUS PEAK FLOW				3290	Jan	24	a 10600	Jul 19 1996
INSTANTANEOUS PEAK STAGE				10.04	Jan	24	b 14.46	Jul 19 1996
INSTANTANEOUS LOW FLOW				2.0	Oct	18	.30	Sep 28 1959
ANNUAL RUNOFF (CFSM)	1.22			1.06			1.74	
ANNUAL RUNOFF (INCHES)	16.54			14.33			23.62	
10 PERCENT EXCEEDS	267			237			360	
50 PERCENT EXCEEDS	30			22			74	
90 PERCENT EXCEEDS	3.7			4.4			9.0	

a From rating curve extended above 8,500 ft³/s.
b From peak-stage indicator.



1-YEAR HYDROGRAPH
 OCTOBER 1, 1998 TO SEPTEMBER 30, 1999