

**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 mi<sup>2</sup>.

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

**GAGE.**--Water-stage recorder. Datum of gage is 1,164.88 ft above National Geodetic Vertical Datum of 1929 (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 ft<sup>3</sup>/s and maximum (\*):

Date	Time	Discharge ft <sup>3</sup> /s	Gage Height (ft)	Date	Time	Discharge ft <sup>3</sup> /s	Gage Height (ft)
Mar. 27	0100	*2,250	*8.56	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	11	12	177	e56	549	94	248	217	196	28	12	8.4
2	9.8	11	110	e46	426	95	209	309	110	25	11	8.5
3	9.5	15	81	e34	304	285	187	279	83	24	9.8	9.1
4	8.9	17	63	e40	238	249	162	207	72	21	8.3	9.7
5	8.7	13	52	e33	181	190	141	172	91	22	8.8	11
6	9.2	12	45	e38	155	173	127	145	591	26	9.4	9.4
7	11	9.9	42	e38	136	154	112	131	793	29	8.4	8.5
8	13	9.5	37	e38	122	132	105	128	349	37	7.8	7.9
9	14	9.4	52	e38	104	115	100	253	222	42	6.8	7.6
10	14	8.5	46	61	106	107	97	481	163	72	6.4	6.9
11	17	8.3	38	117	545	90	82	251	127	33	6.2	5.9
12	20	7.9	32	157	327	86	74	233	106	23	6.3	4.9
13	33	7.6	40	131	248	81	83	782	89	19	7.3	4.6
14	47	7.3	64	108	188	75	137	935	94	17	7.9	5.4
15	80	7.1	114	101	163	70	234	555	168	17	7.1	9.0
16	42	7.1	84	95	148	207	318	357	145	14	6.4	39
17	31	7.0	505	86	137	174	237	268	101	13	5.8	23
18	29	6.8	1150	77	109	159	194	654	80	12	6.1	15
19	23	6.9	476	74	99	143	167	466	65	13	6.8	14
20	19	11	289	108	102	253	176	333	53	29	6.9	15
21	17	18	200	84	172	402	146	252	46	23	6.8	17
22	16	13	151	78	160	276	146	202	41	16	6.4	17
23	17	10	133	70	138	223	130	166	37	15	14	15
24	152	9.2	199	251	121	193	108	142	33	26	61	14
25	78	80	153	375	114	177	104	127	43	18	35	12
26	48	134	124	236	115	736	99	110	35	14	18	14
27	37	66	112	187	118	1220	84	94	45	18	13	86
28	29	68	102	158	104	542	136	91	81	34	11	129
29	21	186	91	139	---	363	245	151	45	19	10	37
30	16	146	e65	330	---	361	181	101	34	17	9.6	25
31	12	---	e63	458	---	265	---	89	---	17	9.2	---
TOTAL	893.1	924.5	4890	3842	5429	7690	4569	8681	4138	733	349.5	588.8
MEAN	28.8	30.8	158	124	194	248	152	280	138	23.6	11.3	19.6
MAX	152	186	1150	458	549	1220	318	935	793	72	61	129
MIN	8.7	6.8	32	33	99	70	74	89	33	12	5.8	4.6
CFSM	0.33	0.35	1.80	1.42	2.22	2.84	1.74	3.20	1.58	0.27	0.13	0.22
IN.	0.38	0.39	2.08	1.64	2.31	3.27	1.94	3.69	1.76	0.31	0.15	0.25

**STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1940 - 2002, BY WATER YEAR (WY)**

MEAN	65.5	131	193	201	238	303	237	167	94.9	71.6	53.3	47.2
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.

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03034500 LITTLE MAHONING CREEK AT McCORMICK, PA--Continued

SUMMARY STATISTICS	FOR 2001 CALENDAR YEAR		FOR 2002 WATER YEAR		WATER YEARS 1940 - 2002	
ANNUAL TOTAL	32631.0		42727.9			
ANNUAL MEAN	89.4		117		150	
HIGHEST ANNUAL MEAN					240	1956
LOWEST ANNUAL MEAN					92.2	1999
HIGHEST DAILY MEAN	1150	Dec 18	1220	Mar 27	4620	Jun 23 1972
LOWEST DAILY MEAN	4.3	Aug 9	4.6	Sep 13	0.40	Sep 28 1959
ANNUAL SEVEN-DAY MINIMUM	7.1	Nov 13	6.2	Sep 8	0.69	Sep 23 1959
MAXIMUM PEAK FLOW			2250	Mar 27	<b>a</b> 10600	Jul 19 1996
MAXIMUM PEAK STAGE			8.56	Mar 27	<b>b</b> 14.46	Jul 19 1996
INSTANTANEOUS LOW FLOW			4.2	Sep 13	0.30	Sep 28 1959
ANNUAL RUNOFF (CFSM)	1.02		1.34		1.71	
ANNUAL RUNOFF (INCHES)	13.89		18.19		23.29	
10 PERCENT EXCEEDS	236		258		355	
50 PERCENT EXCEEDS	35		74		73	
90 PERCENT EXCEEDS	8.7		8.5		9.1	

**a** From rating curve extended above 8,500 ft<sup>3</sup>/s.  
**b** From peak-stage indicator.

