

## 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)
Jan. 2	Unknown	Unknown	Unknown	Aug. 30	1900	*2,070	*8.26

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	21	68	e105	e840	e48	e192	101	43	200	31	846	671
2	19	58	e100	e1960	e50	e168	156	41	115	28	410	1000
3	18	48	e87	e739	e64	e172	123	39	100	27	301	946
4	34	42	e78	e473	e376	e180	112	36	164	26	242	1200
5	35	40	e71	e322	e620	e271	610	40	171	28	348	654
6	30	135	e68	e254	e315	e374	458	62	132	28	227	390
7	23	125	e63	e182	e214	e279	329	69	183	96	150	255
8	20	98	e62	e150	e176	e254	280	94	205	61	115	185
9	18	76	e63	e124	e145	610	234	105	320	43	145	144
10	17	66	e60	e110	e125	365	185	221	206	45	332	119
11	18	88	e60	e98	e107	242	365	206	160	211	196	97
12	20	86	e59	e88	e94	208	384	160	162	92	156	81
13	25	92	e105	e87	e89	435	261	155	222	58	126	73
14	28	77	e400	e80	e81	559	199	127	182	45	93	68
15	27	65	e280	e72	e76	463	164	101	185	37	73	70
16	28	65	e184	e67	e73	541	138	113	131	63	65	81
17	54	299	e138	e60	e50	587	116	101	105	44	64	57
18	50	275	e135	e58	e50	507	100	88	171	33	52	49
19	52	217	e140	e49	e49	383	89	84	140	124	43	73
20	84	232	e805	e46	e50	360	80	74	108	59	37	107
21	54	194	e525	e46	e50	465	86	261	106	43	33	63
22	43	183	e335	e44	e73	334	81	171	105	372	31	57
23	38	183	e230	e40	e882	248	73	142	78	193	29	282
24	34	158	e164	e39	e621	197	63	144	63	149	26	138
25	32	147	e130	e39	e438	162	58	117	53	119	24	121
26	166	135	e99	e41	e326	143	56	102	48	78	144	128
27	91	132	e81	e40	e275	124	55	84	43	65	278	100
28	57	122	e70	e42	e220	108	50	78	39	352	137	241
29	46	117	e64	e42	---	101	49	72	35	162	83	166
30	71	e112	e55	e44	---	104	47	62	32	102	1070	132
31	82	---	e80	e44	---	99	---	99	---	77	573	---
TOTAL	1335	3735	4896	6320	5737	9235	5102	3291	3964	2891	6449	7748
MEAN	43.1	124	158	204	205	298	170	106	132	93.3	208	258
MAX	166	299	805	1960	882	610	610	261	320	372	1070	1200
MIN	17	40	55	39	48	99	47	36	32	26	24	49
CFSM	0.49	1.42	1.81	2.33	2.34	3.41	1.95	1.21	1.51	1.07	2.38	2.95
IN.	0.57	1.59	2.08	2.69	2.44	3.93	2.17	1.40	1.69	1.23	2.74	3.30

## STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1940 - 2003, BY WATER YEAR (WY)

MEAN	65.1	131	192	202	237	303	236	166	95.5	71.9	55.7	50.5
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 2002 CALENDAR YEAR		FOR 2003 WATER YEAR		WATER YEARS 1940 - 2003	
ANNUAL TOTAL	45986.3		60703			
ANNUAL MEAN	126		166		150	
HIGHEST ANNUAL MEAN					240	1956
LOWEST ANNUAL MEAN					92.2	1999
HIGHEST DAILY MEAN	1220	Mar 27	e1960	Jan 2	4620	Jun 23 1972
LOWEST DAILY MEAN	4.6	Sep 13	17	Oct 10	0.40	Sep 28 1959
ANNUAL SEVEN-DAY MINIMUM	6.2	Sep 8	20	Oct 7	0.69	Sep 23 1959
MAXIMUM PEAK FLOW			2070	Aug 30	a10600	Jul 19 1996
MAXIMUM PEAK STAGE			8.26	Aug 30	b14.46	Jul 19 1996
INSTANTANEOUS LOW FLOW			17	Oct 3,9-11	0.30	Sep 28 1959
ANNUAL RUNOFF (CFSM)	1.44		1.90		1.72	
ANNUAL RUNOFF (INCHES)	19.57		25.84		23.33	
10 PERCENT EXCEEDS	275		368		355	
50 PERCENT EXCEEDS	86		101		74	
90 PERCENT EXCEEDS	9.9		39		9.2	

a From rating curve extended above 8,500 ft<sup>3</sup>/s.

b From peak-stage indicator.

e Estimated.

