

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. 31	0900	*1,900	*a7.99	(No peaks above base discharge.)			

a From peak-stage indicator.

**DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES**

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	37	41	128	e50	475	77	110	74	34	156	7.4	47
2	30	36	107	e43	310	e70	105	68	103	184	6.8	23
3	25	33	84	e36	221	e54	99	63	268	75	7.4	15
4	22	30	127	e28	179	e42	96	57	167	55	7.8	13
5	30	28	87	e24	157	e35	86	52	109	52	11	11
6	462	24	79	e20	151	e28	112	47	83	44	8.3	9.3
7	220	22	60	e18	146	e29	165	42	75	34	6.4	7.8
8	124	21	63	e15	140	e29	156	40	59	64	5.3	7.2
9	103	21	50	e14	284	e28	225	45	48	50	4.3	6.5
10	170	89	38	e13	627	e29	603	41	41	35	35	6.8
11	179	274	54	e12	359	e32	356	37	39	29	14	8.1
12	118	149	368	e11	244	e45	269	56	35	24	11	8.1
13	89	116	220	e11	202	311	207	59	31	21	8.7	6.7
14	71	103	203	e11	208	656	166	41	26	18	7.5	19
15	58	84	169	e11	634	410	152	36	23	16	6.2	22
16	50	68	150	e12	441	336	620	33	22	15	6.8	14
17	49	60	569	e13	430	453	518	30	23	14	12	11
18	727	51	433	e14	289	344	387	30	19	14	12	9.3
19	340	43	305	e15	227	262	285	29	16	13	12	8.2
20	221	39	220	e14	199	214	235	26	15	12	30	8.1
21	163	e30	179	e13	179	240	293	33	17	10	17	12
22	124	e20	e105	e13	126	481	238	95	64	9.4	13	14
23	94	e15	e80	e14	134	319	202	108	122	9.0	9.8	12
24	79	e18	e100	e13	112	250	179	60	100	8.6	9.3	12
25	76	e20	e107	e13	110	202	153	51	52	8.6	9.1	52
26	63	e40	e105	e12	120	168	131	51	37	9.5	9.0	28
27	55	115	e100	e12	95	140	116	44	29	9.8	23	15
28	102	124	e100	e12	87	124	103	53	25	8.9	24	14
29	71	100	e86	e30	---	113	89	44	22	7.6	32	16
30	55	138	e76	e120	---	134	80	42	21	7.2	18	13
31	48	---	e64	965	---	128	---	35	---	7.6	15	---
TOTAL	4055	1952	4616	1602	6886	5783	6536	1522	1725	1021.2	399.1	449.1
MEAN	131	65.1	149	51.7	246	187	218	49.1	57.5	32.9	12.9	15.0
MAX	727	274	569	965	634	656	620	108	268	184	35	52
MIN	22	15	38	11	87	28	80	26	15	7.2	4.3	6.5
CFSM	1.50	.74	1.70	.59	2.81	2.13	2.49	.56	.66	.38	.15	.17
IN.	1.73	.83	1.96	.68	2.93	2.46	2.78	.65	.73	.43	.17	.19

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1940 - 2001, BY WATER YEAR (WY)

	1940	1941	1942	1943	1944	1945	1946	1947	1948	1949	1950	1951
MEAN	66.1	132	193	203	239	304	239	165	94.2	72.4	54.0	47.7
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 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1940 - 2001	
ANNUAL TOTAL	41227.2		36546.4		150	
ANNUAL MEAN	113		100		240	
HIGHEST ANNUAL MEAN					92.2	1956
LOWEST ANNUAL MEAN					92.2	1999
HIGHEST DAILY MEAN	982	Feb 14	965	Jan 31	4620	Jun 23 1972
LOWEST DAILY MEAN	7.9	Jul 27	4.3	Aug 9	.40	Sep 28 1959
ANNUAL SEVEN-DAY MINIMUM	9.0	Jul 22	7.2	Aug 3	.69	Sep 23 1959
MAXIMUM PEAK FLOW			1900	Jan 31	b 10600	Jul 19 1996
MAXIMUM PEAK STAGE			a 7.99	Jan 31	a 14.46	Jul 19 1996
INSTANTANEOUS LOW FLOW			4.0	Aug 9,10	.30	Sep 28 1959
ANNUAL RUNOFF (CFSM)	1.29		1.15		1.72	
ANNUAL RUNOFF (INCHES)	17.55		15.56		23.37	
10 PERCENT EXCEEDS	273		255		356	
50 PERCENT EXCEEDS	64		49		73	
90 PERCENT EXCEEDS	16		9.8		9.1	

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

