

**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 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 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)
Nov. 26	1800	*2,150	*8.39	No other peak greater than base discharge.			

**DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000  
DAILY MEAN VALUES**

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	75	9.0	119	e50	e35	232	102	88	62	20	35	16
2	37	56	99	e54	e35	275	97	122	57	17	26	15
3	21	266	88	e60	e34	215	114	97	96	23	22	24
4	22	137	85	e150	e35	187	739	83	58	50	133	25
5	55	93	81	240	e35	169	658	78	48	30	38	18
6	25	74	94	160	e33	147	420	76	113	20	47	15
7	15	61	88	138	e32	132	298	64	83	16	275	12
8	11	50	74	118	e31	122	276	57	60	13	111	11
9	10	45	66	107	e30	113	323	53	47	12	60	10
10	21	40	76	117	e37	107	251	50	37	13	41	10
11	71	35	97	138	e50	115	228	52	31	16	29	15
12	40	28	80	111	e100	200	273	44	34	14	25	24
13	25	24	78	e98	e200	155	216	42	52	11	21	87
14	98	22	291	e86	982	138	191	56	51	10	19	36
15	76	21	452	e77	590	129	168	41	87	14	17	28
16	52	19	293	e70	376	127	150	34	77	35	15	61
17	37	17	209	e62	309	333	150	32	56	24	14	72
18	27	15	163	e58	266	238	143	37	71	17	13	38
19	21	14	134	e56	406	201	127	87	125	13	14	28
20	19	17	128	e54	286	178	113	88	65	13	14	25
21	17	31	138	e50	229	671	241	62	48	12	12	50
22	15	25	112	e47	233	714	378	50	96	11	10	58
23	15	20	93	e43	318	433	365	51	58	10	11	35
24	17	18	e82	e39	400	313	285	176	38	9.2	74	171
25	18	21	e78	e36	501	247	222	118	30	8.5	38	94
26	15	1410	e73	e35	398	201	179	78	27	8.6	20	116
27	13	867	e69	e34	312	172	152	63	47	7.9	16	140
28	11	365	e66	e34	315	168	133	78	42	8.0	71	86
29	10	219	e62	e33	238	153	116	162	27	33	31	63
30	9.5	156	e58	e33	---	133	100	102	23	21	23	48
31	9.2	---	e54	e34	---	115	---	77	---	16	19	---
TOTAL	907.7	4175.0	3680	2422	6846	6833	7208	2298	1746	526.2	1294	1431
MEAN	29.3	139	119	78.1	236	220	240	74.1	58.2	17.0	41.7	47.7
MAX	98	1410	452	240	982	714	739	176	125	50	275	171
MIN	9.2	9.0	54	33	30	107	97	32	23	7.9	10	10
CFSM	.34	1.59	1.36	.89	2.70	2.52	2.75	.85	.67	.19	.48	.55
IN.	.39	1.78	1.57	1.03	2.91	2.91	3.07	.98	.74	.22	.55	.61

**STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1940 - 2000, BY WATER YEAR (WY)**

MEAN	65.0	134	194	205	239	306	239	167	94.8	73.0	54.7	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

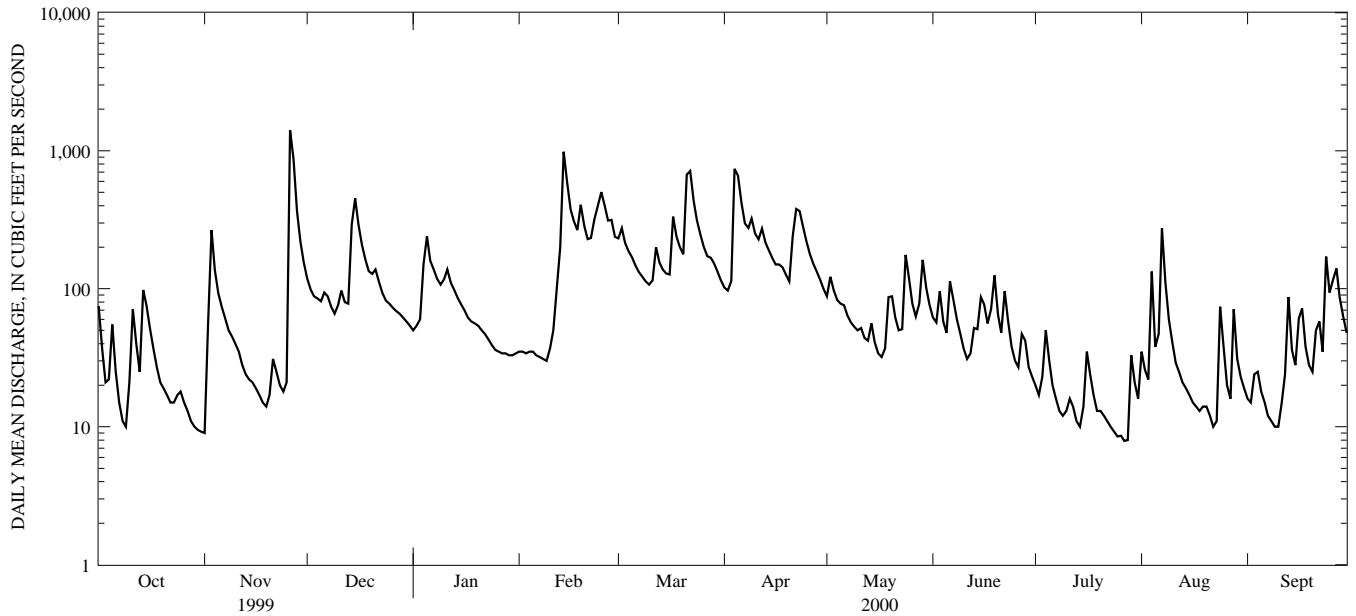
e Estimated.

MAHONING CREEK BASIN

03034500 LITTLE MAHONING CREEK AT McCORMICK, PA--Continued

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1940 - 2000	
ANNUAL TOTAL	40777.0		39366.9		151	
ANNUAL MEAN	112		108		240	
HIGHEST ANNUAL MEAN					1956	
LOWEST ANNUAL MEAN					92.2	
HIGHEST DAILY MEAN	2680	Jan 24	1410	Nov 26	4620	Jun 23 1972
LOWEST DAILY MEAN	3.5	Sep 5	7.9	Jul 27	.40	Sep 28 1959
ANNUAL SEVEN-DAY MINIMUM	4.5	Jul 15	9.0	Jul 22	.69	Sep 23 1959
INSTANTANEOUS PEAK FLOW			2150	Nov 26	<b>a</b> 10600	Jul 19 1996
INSTANTANEOUS PEAK STAGE			8.39	Nov 26	<b>b</b> 14.46	Jul 19 1996
INSTANTANEOUS LOW FLOW			7.6	Jul 27	.30	Sep 28 1959
ANNUAL RUNOFF (CFSM)	1.28		1.23		1.73	
ANNUAL RUNOFF (INCHES)	17.36		16.76		23.50	
10 PERCENT EXCEEDS	276		266		359	
50 PERCENT EXCEEDS	50		58		74	
90 PERCENT EXCEEDS	5.4		14		9.1	

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



1-YEAR HYDROGRAPH  
 OCTOBER 1, 1999 TO SEPTEMBER 30, 2000