

**MAHONING CREEK BASIN**

**03034000 MAHONING CREEK AT PUNXSUTAWNEY, PA**

**LOCATION.**--Lat 40°56'21", long 79°00'31", Jefferson County, Hydrologic Unit 05010006, on right bank 75 ft downstream from Williams Run, 1.8 mi upstream from bridge on Diamond Road at Sportsburg, 1.9 mi downstream from Sawmill Run, and 2 mi west of Punxsutawney.

**DRAINAGE AREA.**--158 mi<sup>2</sup>.

**PERIOD OF RECORD.**--October 1938 to current year.

**REVISED RECORDS.**--WDR PA-87-3: 1977-86 (P).

**GAGE.**--Water-stage recorder. Datum of gage is 1,206.14 ft above sea level (U.S. Army Corps of Engineers benchmark). Prior to Oct. 1, 1946, at site 2.9 mi upstream at datum 13.30 ft higher.

**REMARKS.**--Records good except those for estimated daily discharges, which are poor. Diurnal fluctuations at low flow by mine pumpage into stream above station. Several measurements of water temperature were made during the year. U.S. Army Corps of Engineers satellite telemetry at station.

**EXTREMES OUTSIDE PERIOD OF RECORD.**--Flood of Mar. 18, 1936 reached a stage of 15.6 ft, from floodmark at former site and datum, discharge, 12,500 ft<sup>3</sup>/s, from rating curve extended above 4,300 ft<sup>3</sup>/s.

**PEAK DISCHARGES FOR CURRENT YEAR.**--Peak discharges greater than a base discharge of 2,500 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)
Feb. 10	1100	*1,370	*4.35	(No peaks above base discharge.)			

**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	115	94	163	e100	632	167	262	191	90	116	35	72
2	102	89	148	e97	446	173	244	179	156	142	32	45
3	93	86	132	e92	344	161	228	166	258	87	39	35
4	83	84	155	e90	303	154	230	154	199	77	39	32
5	109	81	132	e92	272	157	208	145	149	79	51	30
6	390	77	127	e93	260	133	376	132	127	74	37	28
7	278	74	118	e93	246	146	513	121	119	66	32	26
8	203	73	116	e87	230	136	493	116	104	82	31	26
9	179	74	111	e82	435	136	501	123	92	72	31	25
10	226	118	126	e75	1190	127	700	113	83	60	153	26
11	239	214	106	e72	822	116	560	107	93	55	81	26
12	189	151	508	e70	550	116	482	121	86	51	43	25
13	164	129	379	e69	448	367	403	121	79	47	36	24
14	146	121	340	e66	417	784	343	101	72	46	32	54
15	133	112	313	79	955	589	323	95	66	46	30	44
16	123	103	282	93	748	494	994	91	63	44	33	32
17	123	99	836	91	676	707	956	86	69	44	57	29
18	453	94	804	87	504	598	756	87	61	42	42	28
19	329	88	566	91	414	484	588	90	56	41	36	27
20	258	85	425	e86	384	414	488	83	52	39	45	27
21	217	83	338	e72	353	432	555	91	73	37	37	29
22	183	78	e260	e80	272	1030	465	180	211	35	32	28
23	157	78	e220	e79	275	770	409	296	335	35	34	26
24	146	73	e200	e76	239	608	370	163	308	36	33	31
25	141	72	e190	e74	236	478	331	130	174	35	31	98
26	130	108	e180	e70	246	396	297	129	127	40	29	61
27	121	176	e160	e67	205	338	276	116	101	41	35	43
28	124	166	e140	e62	187	306	251	125	87	36	46	45
29	111	151	e130	e56	---	283	224	111	78	34	44	40
30	103	172	e120	e110	---	304	207	98	74	34	34	35
31	98	---	e110	712	---	293	---	87	---	35	34	---
TOTAL	5466	3203	7935	3163	12289	11397	13033	3948	3642	1708	1304	1097
MEAN	176	107	256	102	439	368	434	127	121	55.1	42.1	36.6
MAX	453	214	836	712	1190	1030	994	296	335	142	153	98
MIN	83	72	106	56	187	116	207	83	52	34	29	24
CFSM	1.12	.68	1.62	.65	2.78	2.33	2.75	.81	.77	.35	.27	.23
IN.	1.29	.75	1.87	.74	2.89	2.68	3.07	.93	.86	.40	.31	.26

**STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1939 - 2001, BY WATER YEAR (WY)**

MEAN	118	221	324	336	410	559	468	329	207	152	106	93.3
MAX	394	715	769	1025	1013	1249	909	722	1210	855	670	572
(WY)	1987	1986	1973	1952	1975	1964	1994	1953	1972	1977	1956	1996
MIN	18.1	23.0	27.2	61.0	96.6	132	112	79.9	48.9	26.4	23.0	16.9
(WY)	1965	1999	1961	1961	1993	1969	1946	1941	1991	1988	1949	1964

e Estimated.

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03034000 MAHONING CREEK AT PUNXSUTAWNEY, PA--Continued

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1939 - 2001	
ANNUAL TOTAL	78638		68185			
ANNUAL MEAN	215		187		276	
HIGHEST ANNUAL MEAN					433	1956
LOWEST ANNUAL MEAN					177	1963
HIGHEST DAILY MEAN	1350	Apr 4	1190	Feb 10	13200	Jun 23 1972
LOWEST DAILY MEAN	27	Jul 27	24	Sep 13	12	Oct 19 1939
ANNUAL SEVEN-DAY MINIMUM	33	Sep 5	25	Sep 7	13	Oct 14 1939
MAXIMUM PEAK FLOW			1370	Feb 10	<b>a</b> 20400	Jul 19 1996
MAXIMUM PEAK STAGE			4.35	Feb 10	<b>b</b> 18.38	Jul 19 1996
INSTANTANEOUS LOW FLOW			23	Sep 10,13	2.6	Sep 26 1939
ANNUAL RUNOFF (CFSM)	1.36		1.18		1.75	
ANNUAL RUNOFF (INCHES)	18.51		16.05		23.74	
10 PERCENT EXCEEDS	477		458		621	
50 PERCENT EXCEEDS	132		115		152	
90 PERCENT EXCEEDS	58		35		33	

**a** From rating curve extended above 4,300 ft<sup>3</sup>/s on basis of slope-area measurement at gage height 13.01 ft.  
**b** From floodmark in gage well.

