

## TOHICKON CREEK BASIN

## 01459500 TOHICKON CREEK NEAR PIPERSVILLE, PA

**LOCATION.**--Lat 40°26'01", long 75°07'01", Bucks County, Hydrologic Unit 02040105, on right bank at site of Traugers bridge, 1.5 mi northeast of Pipersville, and 4.5 mi upstream from mouth.

**DRAINAGE AREA.**--97.4 mi<sup>2</sup>.

**PERIOD OF RECORD.**--July 1935 to current year.

**REVISED RECORDS.**--WDR PA-75-1: 1974.

**GAGE.**--Water-stage recorder. Datum of gage is 258.96 ft above National Geodetic Vertical Datum of 1929.

**REMARKS.**--Records good except those for estimated daily discharges, which are poor. Flow regulated since December 1973 by Nockamixon Reservoir about 6.2 mi upstream. Several measurements of water temperature were made during the year. Satellite telemetry at station.

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	187	70	850	e23	156	346	57	215	28	25	11
2	19	280	53	1630	e24	564	248	56	311	25	34	44
3	18	217	51	742	e25	759	192	54	194	24	26	103
4	17	23	40	571	e30	487	151	45	2010	21	31	216
5	17	18	42	393	e35	538	139	41	1680	19	262	218
6	17	71	52	294	e40	759	132	40	655	18	1800	122
7	15	49	43	238	e60	538	122	39	602	17	979	69
8	13	45	58	199	e50	386	144	46	909	16	353	46
9	11	44	41	239	e45	652	371	47	492	15	235	35
10	11	42	66	237	e38	635	670	48	270	14	205	29
11	311	45	169	181	e37	385	695	46	160	15	340	26
12	762	169	1190	125	e34	290	924	45	114	15	577	23
13	405	474	1000	88	e35	378	567	41	129	13	259	27
14	188	319	1760	73	e36	557	311	34	199	11	141	90
15	95	181	990	e70	e25	471	203	30	150	10	93	389
16	228	162	470	e60	e20	525	154	28	98	9.4	61	1250
17	477	2270	255	e45	e130	695	166	28	67	8.3	48	537
18	282	1810	155	e40	e760	628	71	28	106	7.5	44	210
19	146	678	112	e50	e390	443	80	28	133	7.8	35	988
20	90	337	927	e40	e140	540	81	26	1370	6.8	31	669
21	59	203	1550	e35	e75	1890	76	28	2800	6.5	27	278
22	44	181	567	e32	e570	966	127	29	1150	308	25	144
23	36	247	307	e30	e1750	450	124	28	464	1630	23	1350
24	31	183	190	e30	1360	274	98	31	245	670	19	1330
25	28	127	325	e29	766	194	73	39	142	229	17	437
26	180	97	551	e27	465	157	85	820	91	104	15	211
27	194	106	417	e25	304	195	105	950	62	61	13	149
28	133	101	288	e20	209	177	93	403	45	47	12	788
29	89	85	215	e25	---	211	81	231	35	35	11	273
30	159	75	173	e22	---	625	68	144	31	29	11	154
31	247	---	206	e20	---	592	---	102	---	24	12	---
TOTAL	4343	8826	12333	6460	7476	16117	6697	3612	14929	3444.3	5764	10216
MEAN	140	294	398	208	267	520	223	117	498	111	186	341
MAX	762	2270	1760	1630	1750	1890	924	950	2800	1630	1800	1350
MIN	11	18	40	20	20	156	68	26	31	6.5	11	11

e Estimated.

TOHICKON CREEK BASIN

01459500 TOHICKON CREEK NEAR PIPERSVILLE, PA--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1974 - 2003, BY WATER YEAR (WY) (SINCE REGULATION)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	85.4	164	229	237	207	314	232	193	92.6	68.0	51.7	90.1
MAX	528	553	813	916	436	867	707	579	498	602	232	452
(WY)	1997	1976	1997	1979	1984	1994	1983	1984	2003	1984	1978	1999
MIN	5.87	5.12	3.61	16.4	28.3	43.1	36.9	29.1	5.73	2.11	3.92	4.03
(WY)	1983	2002	1999	1977	1974	1976	1985	1999	1999	1999	2002	1980

SUMMARY STATISTICS FOR 2002 CALENDAR YEAR FOR 2003 WATER YEAR WATER YEARS 1974 - 2003

ANNUAL TOTAL	51552.4		100217.3			
ANNUAL MEAN	141		275		164	
HIGHEST ANNUAL MEAN					300 1984	
LOWEST ANNUAL MEAN					74.0 2002	
HIGHEST DAILY MEAN	3870	May 14	2800	Jun 21	6810	Dec 5 1993
LOWEST DAILY MEAN	2.4	Sep 12	6.5	Jul 21	1.5	Oct 26 2001
ANNUAL SEVEN-DAY MINIMUM	2.8	Sep 7	8.0	Jul 15	1.7	Sep 12 1991
MAXIMUM PEAK FLOW			4090	Jun 4	a18600	Sep 16 1999
MAXIMUM PEAK STAGE			6.56	Jun 4	11.90	Sep 16 1999
10 PERCENT EXCEEDS	305		749		400	
50 PERCENT EXCEEDS	46		114		47	
90 PERCENT EXCEEDS	3.6		20		5.9	

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1936 - 1973, BY WATER YEAR (WY) (PRIOR TO REGULATION)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	43.4	138	183	190	235	300	217	121	79.0	54.0	66.8	54.3
MAX	367	601	464	501	572	795	612	430	413	288	515	513
(WY)	1956	1973	1973	1949	1971	1936	1952	1948	1972	1938	1955	1960
MIN	1.46	3.51	11.5	37.8	42.5	133	35.2	15.9	4.64	1.68	1.12	1.21
(WY)	1965	1965	1966	1966	1947	1949	1946	1955	1965	1957	1957	1957

SUMMARY STATISTICS WATER YEARS 1936 - 1973

ANNUAL MEAN	140	
HIGHEST ANNUAL MEAN	240	1973
LOWEST ANNUAL MEAN	45.8	1965
HIGHEST DAILY MEAN	6820	Sep 12 1960
LOWEST DAILY MEAN	.10	Sep 24 1941 <sup>b</sup>
ANNUAL SEVEN DAY MINIMUM	.47	Jul 24 1955
MAXIMUM PEAK FLOW	a16000	Aug 18 1955
MAXIMUM PEAK STAGE	11.26	Aug 18 1955
INSTANTANEOUS LOW FLOW	.05	Sep 24 1941
ANNUAL RUNOFF (CFSM)	1.43	
ANNUAL RUNOFF (INCHES)	19.48	
10 PERCENT EXCEEDS	325	
50 PERCENT EXCEEDS	37	
90 PERCENT EXCEEDS	3.8	

a From rating curve extended above 13,600 ft<sup>3</sup>/s on basis of slope-area measurement at gage height 10.48 ft.  
 b Also Sept. 29, Oct. 6, 1941.

