

## 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 and crest-stage gage. 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 2004 TO SEPTEMBER 2005  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	426	57	1190	80	e90	105	232	168	19	39	9.5	8.6
2	221	47	1020	82	e95	95	2700	151	17	48	8.5	7.4
3	135	45	457	79	e90	81	4740	114	18	47	7.6	6.0
4	93	91	258	102	75	71	1480	90	27	35	6.6	5.0
5	67	302	171	144	64	66	517	73	30	28	5.8	4.2
6	51	393	126	773	55	66	296	60	31	34	5.3	3.5
7	43	307	220	687	65	181	199	54	65	117	4.6	2.9
8	38	28	443	716	90	522	761	51	57	759	5.6	2.7
9	35	23	360	718	165	428	544	42	45	617	10	2.5
10	33	22	1160	399	480	248	297	39	45	247	13	2.5
11	32	21	1030	242	453	163	179	37	42	104	13	2.4
12	29	66	540	306	257	180	122	38	36	61	12	2.2
13	26	339	320	266	159	207	97	31	30	42	10	2.1
14	30	268	201	1890	277	180	81	28	27	37	9.8	2.3
15	34	162	136	1460	1500	137	68	27	24	32	21	2.5
16	50	107	103	520	806	106	60	26	20	47	21	2.4
17	56	82	91	291	557	92	57	25	17	124	20	2.4
18	47	68	79	162	333	80	54	23	15	109	18	2.3
19	55	60	78	e120	180	336	186	21	12	78	16	2.2
20	72	55	e80	e90	118	303	26	23	10	52	15	2.1
21	69	65	e60	e80	114	29	26	26	9.2	37	14	1.9
22	87	64	51	e67	106	22	26	27	9.0	29	13	1.8
23	77	61	162	e63	117	112	41	26	8.6	25	11	1.9
24	63	64	570	e65	121	565	828	24	7.5	20	8.8	1.9
25	52	246	356	e75	119	440	489	24	6.8	21	7.3	2.0
26	46	197	178	e80	101	258	229	24	6.4	21	6.2	2.4
27	42	128	120	e75	91	165	169	24	10	19	5.9	2.9
28	36	2450	83	e65	87	1220	165	23	12	18	7.1	2.1
29	33	2020	72	e67	---	2260	111	23	15	15	8.0	2.4
30	43	598	68	e70	---	769	94	22	58	13	8.9	2.4
31	59	---	70	e80	---	374	---	20	---	11	9.2	---
TOTAL	2180	8436	9853	9914	6765	9861	14874	1384	729.5	2886	331.7	89.9
MEAN	70.3	281	318	320	242	318	496	44.6	24.3	93.1	10.7	3.00
MAX	426	2450	1190	1890	1500	2260	4740	168	65	759	21	8.6
MIN	26	21	51	63	55	22	26	20	6.4	11	4.6	1.8

e Estimated.

TOHICKON CREEK BASIN

01459500 TOHICKON CREEK NEAR PIPERSVILLE, PA--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1974 - 2005, BY WATER YEAR (WY) (SINCE REGULATION)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	95.9	174	241	235	211	310	243	185	88.6	78.1	50.4	100
MAX	528	553	813	916	436	867	707	579	498	602	232	504
(WY)	1997	1976	1997	1979	1984	1994	1983	1984	2003	1984	1978	2004
MIN	5.87	5.12	3.61	16.4	28.3	43.1	36.9	29.1	5.73	2.11	3.92	3.00
(WY)	1983	2002	1999	1977	1974	1976	1985	1999	1999	1999	2002	2005

SUMMARY STATISTICS FOR 2004 CALENDAR YEAR FOR 2005 WATER YEAR WATER YEARS 1974 - 2005

ANNUAL TOTAL	80036.0		67304.1			
ANNUAL MEAN	219		184		168	
HIGHEST ANNUAL MEAN					300 1984	
LOWEST ANNUAL MEAN					74.0 2002	
HIGHEST DAILY MEAN	3850 Jul 28		4740 Apr 3		6810 Dec 5 1993	
LOWEST DAILY MEAN	5.0 Jul 11		1.8 Sep 22		1.5 Oct 26 2001	
ANNUAL SEVEN-DAY MINIMUM	6.7 Jul 5		2.0 Sep 19		1.7 Sep 12 1991	
MAXIMUM PEAK FLOW			8210 Apr 2		a18600 Sep 16 1999	
MAXIMUM PEAK STAGE			9.02 Apr 2		11.90 Sep 16 1999	
10 PERCENT EXCEEDS	434		455		405	
50 PERCENT EXCEEDS	82		63		49	
90 PERCENT EXCEEDS	24		6.7		6.1	

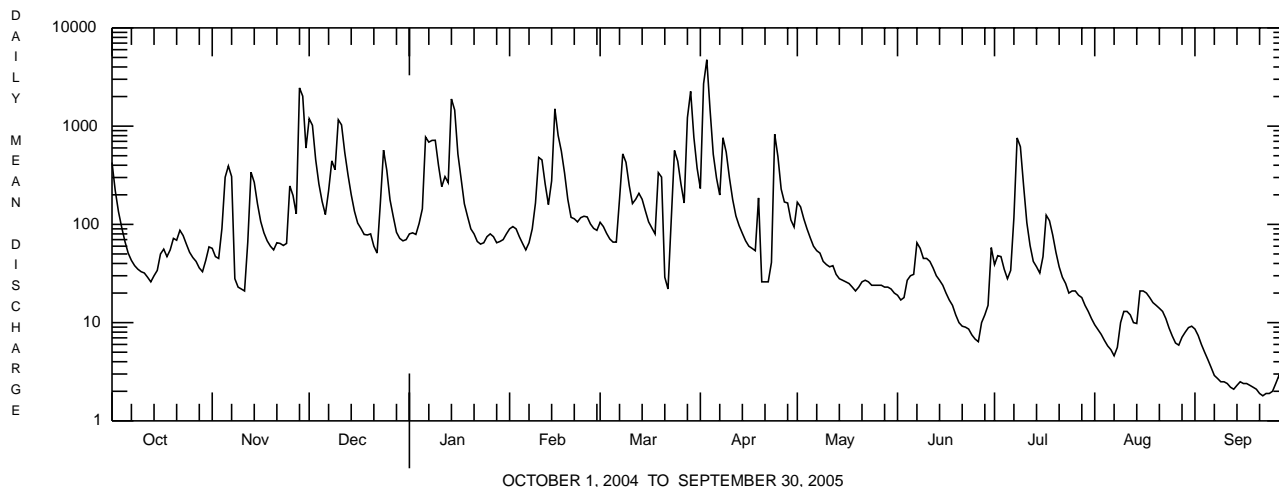
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1936 - 1973, BY WATER YEAR (WY) (PRIOR TO REGULATION)

	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.



OCTOBER 1, 2004 TO SEPTEMBER 30, 2005