

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 mi².

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 sea level.

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 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	17	7.3	12	e45	616	226	518	32	84	173	23	6.7
2	16	6.1	e11	e44	505	166	307	31	413	243	20	8.3
3	15	5.1	e10	e41	356	138	203	103	345	140	17	7.0
4	18	332	e9.5	e40	222	131	152	27	190	108	25	6.2
5	63	328	e9.0	e39	214	149	118	19	113	156	119	5.5
6	64	11	e8.5	e45	215	133	135	17	74	97	73	5.3
7	53	4.9	e8.2	e40	199	147	223	14	53	57	48	4.5
8	38	4.1	e7.9	e38	190	229	219	13	43	46	34	4.6
9	28	4.0	e7.6	e37	179	333	236	13	35	43	26	4.6
10	23	9.2	e7.4	e35	1190	327	384	13	30	37	32	4.5
11	20	8.3	e8.0	e39	922	239	305	12	27	36	39	4.4
12	16	5.8	e7.5	e36	434	182	357	12	24	30	49	4.4
13	14	5.2	e7.0	e35	272	929	299	11	23	25	122	4.4
14	13	5.9	e40	e38	239	729	202	9.6	22	22	80	8.9
15	12	7.2	e120	e40	362	371	138	7.9	20	19	52	6.8
16	11	6.3	e90	e42	427	243	171	6.9	401	16	38	5.6
17	10	5.8	4100	e50	606	425	197	5.8	1560	15	30	5.1
18	14	5.3	2660	e62	393	375	316	5.7	450	20	26	5.3
19	27	5.2	622	e240	228	259	287	5.7	209	19	22	5.5
20	29	4.9	302	809	160	265	183	5.7	114	16	19	8.1
21	30	4.9	166	555	155	180	133	8.1	70	14	17	33
22	25	4.5	e113	310	144	649	113	155	49	12	15	25
23	21	4.3	e86	e201	e124	457	94	414	50	11	13	23
24	19	4.3	e69	150	103	259	83	246	72	9.5	13	21
25	18	4.1	e59	120	150	168	67	127	51	9.0	12	88
26	16	26	e56	e90	522	127	54	236	41	127	10	94
27	15	25	e55	79	508	100	50	1700	34	165	8.8	57
28	13	14	e53	68	344	80	47	1420	30	84	8.0	40
29	15	11	e53	58	---	70	38	488	25	48	7.3	32
30	11	12	e51	283	---	1410	33	237	31	34	6.5	26
31	9.0	---	e48	664	---	1200	---	126	---	27	5.6	---
TOTAL	693.0	881.7	8856.6	4373	9979	10696	5662	5521.4	4683	1858.5	1010.2	554.7
MEAN	22.4	29.4	286	141	356	345	189	178	156	60.0	32.6	18.5
MAX	64	332	4100	809	1190	1410	518	1700	1560	243	122	94
MIN	9.0	4.0	7.0	35	103	70	33	5.7	20	9.0	5.6	4.4

e Estimated.

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01459500 TOHICKON CREEK NEAR PIPERSVILLE, PA--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1974 - 2001, BY WATER YEAR (WY) (SINCE REGULATION)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	86.3	166	230	244	210	312	237	190	77.7	68.6	48.6	84.1
MAX	528	553	813	916	436	867	707	579	314	602	232	452
(WY)	1997	1976	1997	1979	1984	1994	1983	1984	1989	1984	1978	1999
MIN	5.87	24.7	3.61	16.4	28.3	43.1	36.9	29.1	5.73	2.11	4.12	4.03
(WY)	1983	1974	1999	1977	1974	1976	1985	1999	1999	1999	1983	1980

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1974 - 2001	
ANNUAL TOTAL	45756.4		54769.1			
ANNUAL MEAN	125		150		163	
HIGHEST ANNUAL MEAN					300	
LOWEST ANNUAL MEAN					78.7	
HIGHEST DAILY MEAN	4100		Dec 17		4100	
LOWEST DAILY MEAN	1.8		Jul 13, 14		4.0	
ANNUAL SEVEN-DAY MINIMUM	2.2		Jul 11		4.5	
MAXIMUM PEAK FLOW					7830	
MAXIMUM PEAK STAGE					8.86	
10 PERCENT EXCEEDS	307		359		395	
50 PERCENT EXCEEDS	40		40		47	
90 PERCENT EXCEEDS	5.8		6.3		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 ^b
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 ft³/s on basis of slope-area measurement at gage height 10.48 ft.
 b Also Sept. 29, Oct. 6, 1941.

