

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 fair 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 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	77	28	94	37	e77	297	123	56	47	17	40	11
2	62	47	67	37	e53	209	100	57	42	14	139	11
3	47	365	56	41	e40	156	88	49	39	12	119	13
4	48	265	52	64	e40	121	210	45	30	11	269	14
5	99	145	48	256	e40	100	242	45	27	10	170	13
6	91	96	233	189	e34	85	162	49	29	8.1	90	9.5
7	68	70	311	129	e34	71	117	45	38	6.1	65	7.4
8	49	52	198	92	e34	65	94	40	37	4.9	56	6.3
9	41	42	133	75	e34	60	160	36	33	3.7	49	5.7
10	144	39	111	127	e34	59	231	32	29	3.3	41	5.2
11	226	36	125	275	e40	63	170	41	27	2.9	32	4.9
12	160	30	94	204	e60	446	134	38	30	2.1	28	4.4
13	103	29	81	138	e60	385	97	35	50	1.8	24	11
14	93	27	464	e92.0	e230	217	80	114	46	1.8	236	13
15	70	29	827	e63	e525	146	72	111	45	2.2	254	40
16	57	25	432	e51	387	112	84	71	45	2.3	144	49
17	49	22	239	e43	393	868	117	50	41	2.6	78	37
18	57	18	157	e56	299	591	235	40	35	4.0	51	28
19	41	16	116	e57	357	277	212	361	32	4.2	42	25
20	85	16	105	e36	314	179	151	832	29	4.1	32	28
21	94	16	168	e34	272	148	338	632	27	3.6	26	25
22	82	17	155	e34	265	1450	1100	346	58	4.8	22	22
23	100	17	118	e29	308	807	497	307	62	5.7	19	18
24	73	18	92	e29	445	338	270	535	46	5.3	18	17
25	59	19	70	e29	699	214	173	691	36	4.7	16	16
26	50	24	58	e96	872	172	130	351	32	7.0	14	24
27	43	490	52	e68	627	134	104	184	27	20	12	29
28	37	526	45	e53	903	743	90	119	24	21	11	25
29	34	237	42	e40	550	495	80	84	21	19	11	23
30	31	139	38	e40	---	254	73	65	20	17	9.7	20
31	29	---	37	e96	---	168	---	54	---	17	9.8	---
TOTAL	2299	2900	4818	2610.0	8026	9430	5734	5515	1084	243.2	2127.5	555.4
MEAN	74.2	96.7	155	84.2	277	304	191	178	36.1	7.85	68.6	18.5
MAX	226	526	827	275	903	1450	1100	832	62	21	269	49
MIN	29	16	37	29	34	59	72	32	20	1.8	9.7	4.4

e Estimated.

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01459500 TOHICKON CREEK NEAR PIPERSVILLE, PA--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1974 - 2000, BY WATER YEAR (WY) (SINCE REGULATION)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	88.6	171	228	248	205	311	239	190	74.8	68.9	49.2	86.5
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 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1974 - 2000	
ANNUAL TOTAL	54196.7		45342.1			
ANNUAL MEAN	148		124		163	
HIGHEST ANNUAL MEAN					300	
LOWEST ANNUAL MEAN					78.7	
HIGHEST DAILY MEAN	5980		Sep 16		1450	
LOWEST DAILY MEAN	1.7		Aug 3		1.8	
ANNUAL SEVEN-DAY MINIMUM	1.8		Jul 31		2.2	
INSTANTANEOUS PEAK FLOW					1700	
INSTANTANEOUS PEAK STAGE					4.43	
10 PERCENT EXCEEDS	289		312		396	
50 PERCENT EXCEEDS	47		52		47	
90 PERCENT EXCEEDS	2.2		11		6.1	

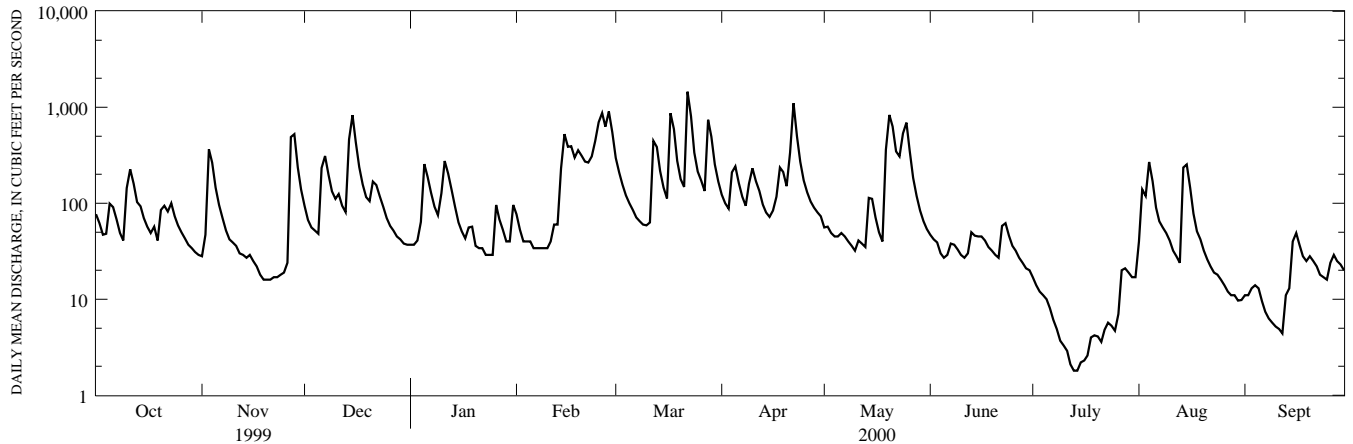
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1936 - 1973, BY WATER YEAR (WY) (PRIOR TO REGULATION)

	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
INSTANTANEOUS PEAK FLOW	a16000	Aug 18 1955
INSTANTANEOUS 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.



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