



2004 Water Year TOHICKON CREEK BASIN

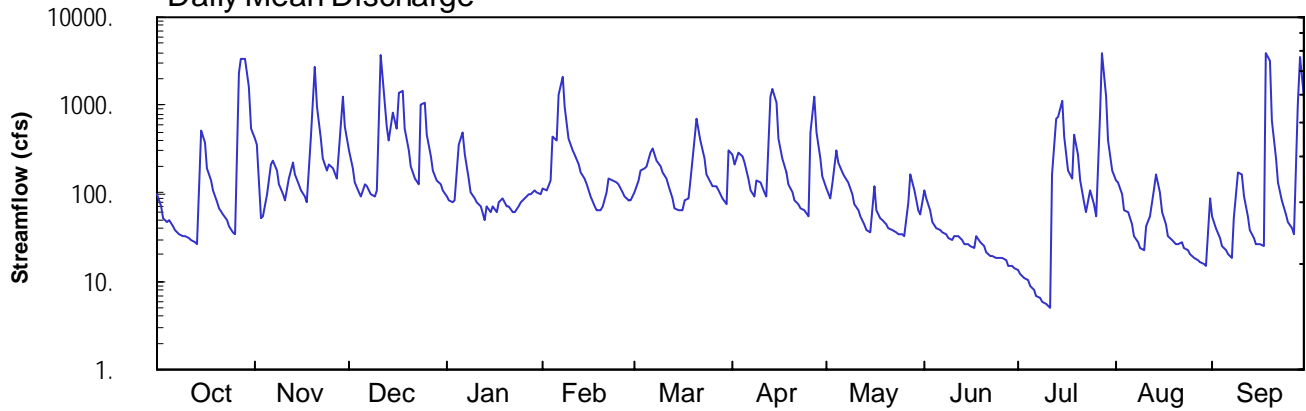
01459500 Tohickon Creek near Pipersville, PA

Latitude: 40° 26 ' 01"
Bucks County

Longitude: 075° 07 ' 01"
Datum: 258.96 feet

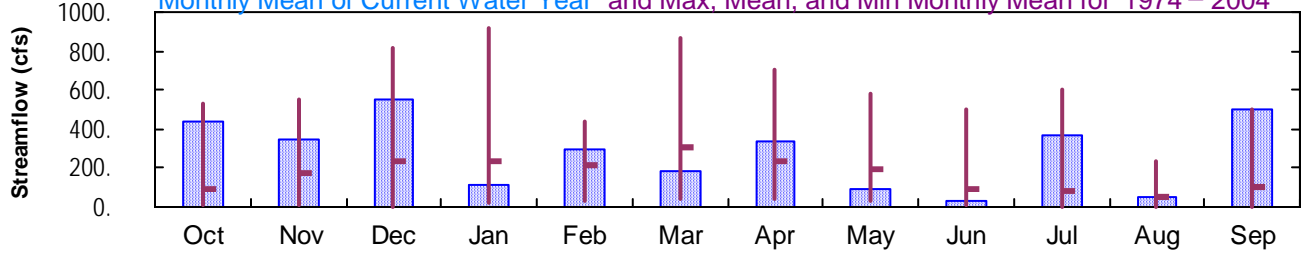
Hydrologic Unit Code: 02040105
Drainage Area: 97.4 mi²

Daily Mean Discharge

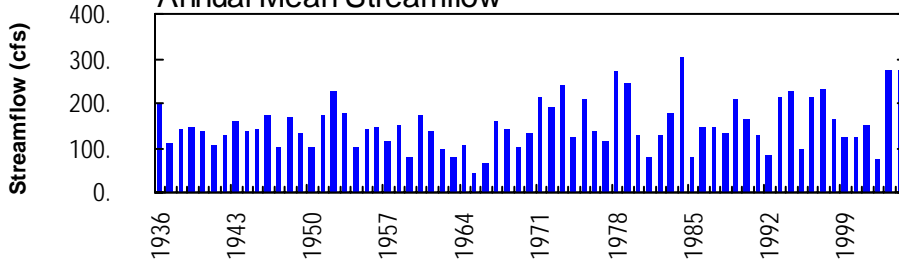


Monthly Statistics

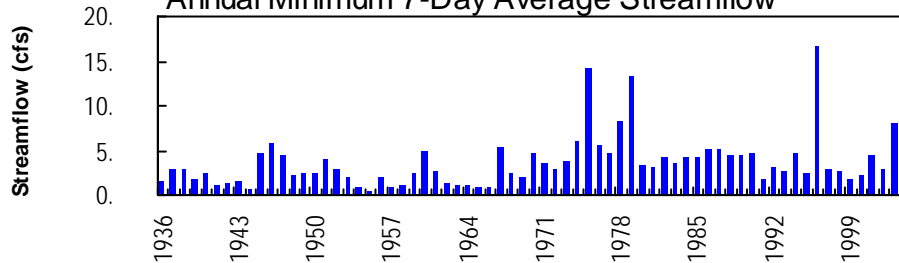
Monthly Mean of Current Water Year and Max, Mean, and Min Monthly Mean for 1974 – 2004



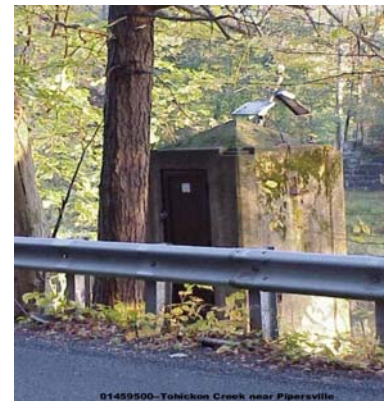
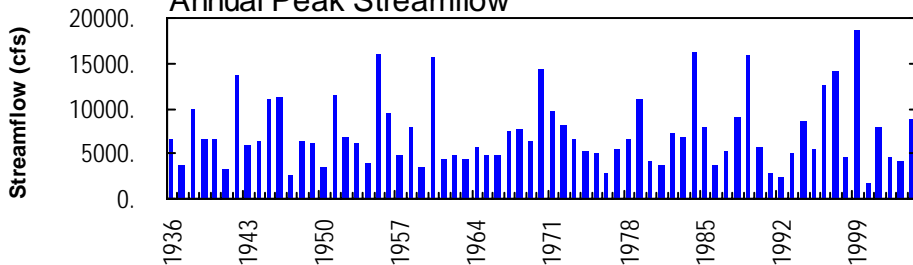
Annual Mean Streamflow



Annual Minimum 7-Day Average Streamflow



Annual Peak Streamflow



01459500-Tohickon Creek near Pipersville

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 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 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	99	422	305	92	e115	105	273	113	106	13	141	56
2	72	362	196	83	e110	139	217	90	87	12	134	40
3	53	52	135	80	e140	180	294	134	65	11	98	30
4	47	56	104	83	e430	195	257	309	47	10	66	25
5	48	97	93	363	e400	198	225	229	40	9.1	62	22
6	42	218	127	488	e1300	284	150	171	38	8.1	45	20
7	37	239	117	276	2070	314	106	156	37	7.0	33	18
8	34	180	100	148	969	239	93	130	34	6.5	28	53
9	33	127	91	100	426	199	142	97	31	5.7	24	173
10	32	100	110	e90	313	174	135	76	30	5.6	22	167
11	30	85	3790	e80	277	145	104	64	33	5.0	43	91
12	29	146	1930	e70	217	121	94	54	32	164	54	54
13	29	219	569	e50	172	88	1240	46	29	709	111	39
14	27	165	393	e70	147	69	1550	39	27	725	160	30
15	519	128	844	e60	124	64	1040	36	26	1140	101	26
16	386	108	540	e70	94	63	428	117	25	445	62	26
17	188	92	1360	e60	73	83	250	63	24	185	44	25
18	141	78	1460	e80	63	88	168	53	32	146	33	3850
19	108	449	548	e90	64	144	127	49	28	462	29	3230
20	80	2680	309	e70	71	423	102	45	25	280	26	683
21	66	982	199	e70	100	710	82	41	21	140	26	253
22	57	411	146	e60	148	398	74	38	20	79	27	132
23	49	252	126	e60	144	250	66	35	20	60	24	82
24	41	180	1020	e70	134	163	63	34	19	105	22	57
25	36	214	1040	e80	127	131	55	35	18	74	20	47
26	34	189	456	e90	105	122	492	32	18	54	19	40
27	2320	149	265	e95	91	118	1240	78	17	772	17	34
28	3390	288	179	e100	83	108	496	167	15	3850	16	1030
29	3340	1220	140	e110	85	89	249	110	15	1280	16	3550
30	1620	564	127	e105	---	75	155	65	14	388	15	1230
31	556	---	105	e100	---	298	---	57	---	184	86	---
TOTAL	13543	10452	16924	3443	8592	5777	9967	2763	973	11335.0	1604	15113
MEAN	437	348	546	111	296	186	332	89.1	32.4	366	51.7	504
MAX	3390	2680	3790	488	2070	710	1550	309	106	3850	160	3850
MIN	27	52	91	50	63	63	55	32	14	5.0	15	18

e Estimated.

TOHICKON CREEK BASIN

01459500 TOHICKON CREEK NEAR PIPERSVILLE, PA--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1974 - 2004, BY WATER YEAR (WY) (SINCE REGULATION)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	96.8	170	239	233	210	310	235	190	90.7	77.6	51.7	103
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	4.03
(WY)	1983	2002	1999	1977	1974	1976	1985	1999	1999	1999	2002	1980

SUMMARY STATISTICS FOR 2003 CALENDAR YEAR FOR 2004 WATER YEAR WATER YEARS 1974 - 2004

ANNUAL TOTAL		115634.3		100486.0								
ANNUAL MEAN		317		275						167		
HIGHEST ANNUAL MEAN										300		1984
LOWEST ANNUAL MEAN										74.0		2002
HIGHEST DAILY MEAN				3790	Dec 11		3850	Jul 28, Sep 18		6810	Dec 5	1993
LOWEST DAILY MEAN				6.5	Jul 21		5.0	Jul 11		1.5	Oct 26	2001
ANNUAL SEVEN-DAY MINIMUM				8.0	Jul 15		6.7	Jul 5		1.7	Sep 12	1991
MAXIMUM PEAK FLOW							8740	Sep 18		a18600	Sep 16	1999
MAXIMUM PEAK STAGE							9.22	Sep 18		11.90	Sep 16	1999
10 PERCENT EXCEEDS				801			558			405		
50 PERCENT EXCEEDS				126			98			49		
90 PERCENT EXCEEDS				24			25			6.0		

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.