

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 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	22	4.6	4.9	e19	109	18	108	273	30	53	3.4	11
2	18	4.6	4.7	e17	143	18	89	348	28	37	3.7	13
3	17	4.9	4.8	e15	113	174	85	568	24	30	6.5	6.2
4	15	4.9	4.8	e14	87	233	99	303	20	26	3.9	4.3
5	14	5.0	4.8	e13	73	138	83	171	18	22	3.9	3.4
6	13	5.1	4.6	e12	53	88	72	112	24	18	5.5	3.2
7	13	5.1	5.0	e19	48	64	57	84	243	15	3.7	3.1
8	11	3.9	5.7	e21	47	52	50	66	218	12	3.6	3.0
9	8.6	9.5	12	e19	43	46	48	62	119	11	3.4	2.8
10	7.2	4.3	12	e18	40	54	50	76	70	9.6	3.4	2.8
11	5.9	4.1	12	e28	52	40	44	63	48	7.7	3.4	2.8
12	4.9	4.4	12	50	42	34	40	69	116	6.0	3.4	2.4
13	4.6	4.6	12	55	39	38	41	847	297	5.1	3.3	2.9
14	4.2	4.6	14	54	34	44	45	3870	273	4.7	3.1	3.5
15	4.3	4.8	19	54	28	41	54	1220	332	4.2	3.2	4.0
16	5.0	4.7	19	53	28	41	76	416	214	3.6	3.1	6.2
17	5.1	4.5	18	48	28	39	70	223	124	3.4	3.1	3.8
18	4.4	4.5	29	46	27	127	56	515	76	3.6	3.2	3.5
19	4.6	4.5	31	43	22	232	48	571	92	3.6	3.2	3.7
20	4.1	5.5	29	69	22	757	45	302	103	5.4	5.5	3.5
21	3.7	4.6	29	39	26	1020	40	176	71	4.5	3.6	3.3
22	3.8	4.5	25	34	26	441	41	116	50	3.7	3.0	3.4
23	3.3	4.5	22	32	25	223	53	85	37	3.6	3.2	3.3
24	2.5	4.7	35	171	23	136	41	69	31	3.6	3.8	3.1
25	1.8	5.8	37	300	22	97	43	55	28	3.6	5.4	3.3
26	1.5	9.0	34	200	21	78	64	44	25	3.6	3.2	4.0
27	3.8	6.2	31	122	21	294	57	41	35	3.6	2.9	51
28	4.5	5.6	28	85	21	256	300	38	152	3.6	2.9	46
29	4.5	5.6	26	65	---	175	701	35	165	3.6	8.6	27
30	4.6	5.1	e24	56	---	121	398	32	90	3.6	5.6	24
31	4.4	---	e21	73	---	93	---	30	---	3.4	3.9	---
TOTAL	224.3	153.7	570.3	1844	1263	5212	2998	10880	3153	321.3	121.6	257.5
MEAN	7.24	5.12	18.4	59.5	45.1	168	99.9	351	105	10.4	3.92	8.58
MAX	22	9.5	37	300	143	1020	701	3870	332	53	8.6	51
MIN	1.5	3.9	4.6	12	21	18	40	30	18	3.4	2.9	2.4

e Estimated.

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01459500 TOHICKON CREEK NEAR PIPERSVILLE, PA--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1974 - 2002, BY WATER YEAR (WY) (SINCE REGULATION)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	83.5	160	223	238	205	307	232	196	78.6	66.5	47.1	81.5
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	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 2001 CALENDAR YEAR		FOR 2002 WATER YEAR		WATER YEARS 1974 - 2002	
ANNUAL TOTAL	45286.1		26998.7			
ANNUAL MEAN	124		74.0		160	
HIGHEST ANNUAL MEAN					300	
LOWEST ANNUAL MEAN					74.0	
HIGHEST DAILY MEAN	1700		May 27		3870	
LOWEST DAILY MEAN	1.5		Oct 26		1.5	
ANNUAL SEVEN-DAY MINIMUM	2.9		Oct 21		2.8	
MAXIMUM PEAK FLOW					4660	
MAXIMUM PEAK STAGE					7.02	
10 PERCENT EXCEEDS	344		167		390	
50 PERCENT EXCEEDS	34		22		46	
90 PERCENT EXCEEDS	4.6		3.4		5.8	

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

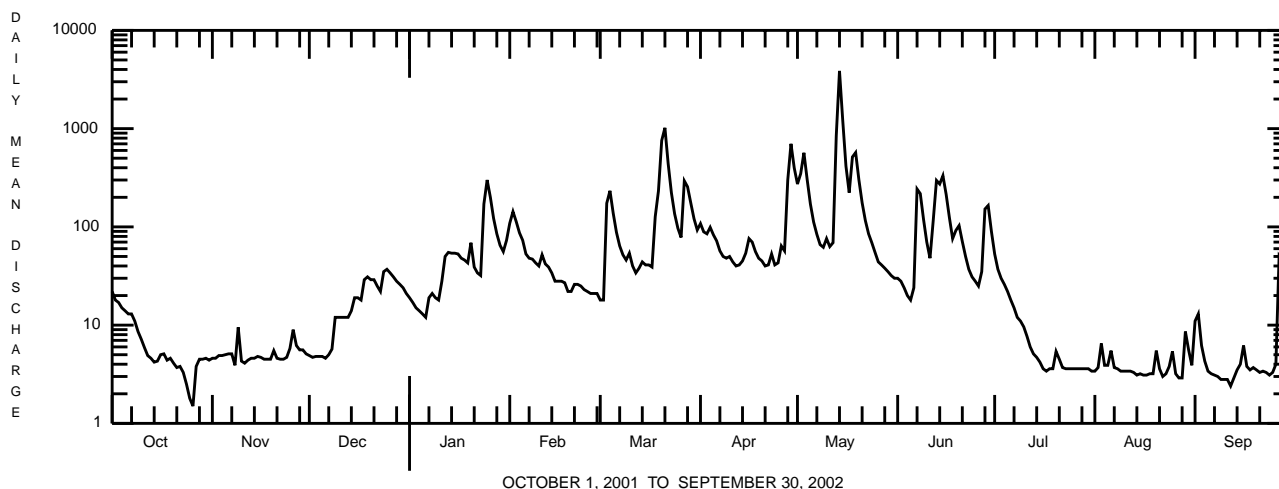
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	43.4	138	183	190	235	300	217	121	79.0	54.0	66.8	54.3
MAX	367	601	464	501	572	795	612	430	413	288	515	513
(WY)	1956	1973	1973	1949	1971	1936	1952	1948	1972	1938	1955	1960
MIN	1.46	3.51	11.5	37.8	42.5	133	35.2	15.9	4.64	1.68	1.12	1.21
(WY)	1965	1965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



OCTOBER 1, 2001 TO SEPTEMBER 30, 2002