

SCHUYLKILL RIVER BASIN

01471000 TULPEHOCKEN CREEK NEAR READING, PA

LOCATION.--Lat 40°22'08", long 75°58'46", Berks County, Hydrologic Unit 02040203, on right bank 15 ft upstream from covered bridge on Township Route 921, 1.0 mi downstream from Cacoosing Creek, 2.5 mi upstream from mouth, and 3.5 mi northwest of town square in Reading.

DRAINAGE AREA.--211 mi².

PERIOD OF RECORD.--October 1950 to current year.

REVISED RECORDS.--WSP 1382: 1951-53, 1954 (M). WSP 2102: 1965 (M). WDR PA-72-1: 1971 (M).

GAGE.--Water-stage recorder. Datum of gage is 216.60 ft above sea level.

REMARKS.--No estimated daily discharges. Records good. Flow regulated since April 1979 by Blue Marsh Lake (station 01470870) 3.9 mi upstream. Several measurements of water temperature were made during the year. Satellite and landline telemetry at station.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	109	130	78	176	333	340	204	223	116	94	55	58
2	175	105	79	176	322	374	204	220	113	81	57	58
3	175	74	78	256	598	373	201	207	115	115	74	58
4	179	74	78	243	827	388	201	193	109	115	107	59
5	139	98	78	218	571	363	199	191	104	115	108	67
6	126	162	78	115	300	343	197	171	104	129	111	79
7	160	204	78	165	295	343	197	151	103	154	111	114
8	140	204	78	183	398	333	184	157	101	137	114	71
9	123	145	78	310	517	332	181	152	98	109	112	79
10	267	64	77	623	421	332	203	166	92	112	111	100
11	164	69	76	963	291	332	190	166	76	111	111	70
12	153	68	76	569	256	332	198	144	73	145	111	65
13	254	66	78	272	274	328	180	144	75	269	112	63
14	441	66	76	324	265	329	183	145	78	349	140	60
15	454	66	68	375	263	335	182	145	89	273	122	71
16	235	107	88	335	379	334	187	145	98	204	93	888
17	171	190	138	330	492	333	187	145	100	203	60	544
18	171	190	103	868	423	320	182	144	145	203	60	856
19	141	190	56	1540	301	294	178	145	173	187	59	1290
20	105	190	56	2520	268	290	180	145	173	163	60	1260
21	106	190	75	1710	268	302	179	133	135	163	61	1240
22	105	190	111	1020	261	727	177	123	83	127	60	1120
23	100	167	93	1000	258	783	183	128	72	60	59	742
24	91	78	54	1170	259	542	186	141	72	57	58	409
25	92	78	53	1290	258	417	180	155	63	56	59	316
26	92	110	54	1290	254	406	180	172	55	56	65	313
27	91	89	53	809	251	401	189	158	54	74	65	268
28	92	83	53	480	277	398	204	129	72	107	61	215
29	107	82	82	456	---	321	227	119	111	107	60	210
30	130	79	124	434	---	225	241	118	111	89	59	544
31	130	---	137	431	---	214	---	118	---	57	59	---
TOTAL	5018	3608	2484	20651	9880	11484	5764	4793	2963	4221	2554	11287
MEAN	162	120	80.1	666	353	370	192	155	98.8	136	82.4	376
MAX	454	204	138	2520	827	783	241	223	173	349	140	1290
MIN	91	64	53	115	251	214	177	118	54	56	55	58

SCHUYLKILL RIVER BASIN

01471000 TULPEHOCKEN CREEK NEAR READING, PA--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1980 - 1999, BY WATER YEAR (WY) (SINCE REGULATION)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	232	292	405	384	403	518	407	375	283	217	154	168
MAX	651	589	1220	1069	663	1604	1191	1226	673	661	331	456
(WY)	1997	1997	1997	1996	1986	1994	1983	1989	1982	1984	1994	1987
MIN	78.3	83.6	80.1	99.8	149	153	64.2	155	98.8	115	63.1	63.0
(WY)	1996	1981	1999	1981	1980	1981	1985	1999	1999	1985	1981	1983

SUMMARY STATISTICS	FOR 1998 CALENDAR YEAR	FOR 1999 WATER YEAR	WATER YEARS 1980 - 1999	
ANNUAL TOTAL	128075	84707		
ANNUAL MEAN	351	232	320	
HIGHEST ANNUAL MEAN			531	1984
LOWEST ANNUAL MEAN			146	1981
HIGHEST DAILY MEAN	2040	May 12	2520	Jan 20
LOWEST DAILY MEAN	53	Dec 25, 27, 28	53	Dec 25, 27, 28
ANNUAL SEVEN-DAY MINIMUM	63	Dec 23	59	Aug 29
INSTANTANEOUS PEAK FLOW			2740	Jan 19
INSTANTANEOUS PEAK STAGE			4.55	Jan 19
			5.81	Dec 6 1993
10 PERCENT EXCEEDS	749		426	625
50 PERCENT EXCEEDS	237		151	213
90 PERCENT EXCEEDS	78		64	83

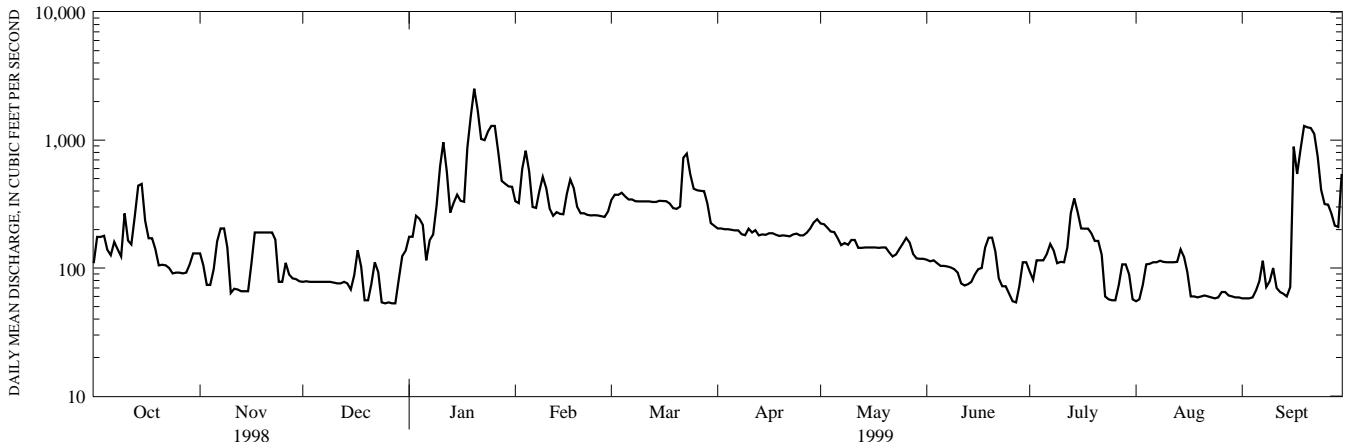
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1951 - 1979, BY WATER YEAR (WY) (PRIOR TO REGULATION)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	178	259	360	405	444	522	451	318	263	210	178	192
MAX	689	490	829	1193	917	914	806	712	1434	645	481	588
(WY)	1977	1973	1978	1979	1971	1978	1970	1953	1972	1969	1955	1975
MIN	55.8	67.5	84.4	124	178	202	170	116	72.8	57.5	41.9	54.8
(WY)	1964	1966	1966	1966	1969	1969	1966	1965	1965	1966	1966	1957

SUMMARY STATISTICS WATER YEARS 1951 - 1979

ANNUAL MEAN	314	
HIGHEST ANNUAL MEAN	491	1952
LOWEST ANNUAL MEAN	144	1966
HIGHEST DAILY MEAN	12000	Jun 23 1972
LOWEST DAILY MEAN	33	Sep 1 1966
ANNUAL SEVEN-DAY MINIMUM	35	Aug 28 1966
INSTANTANEOUS PEAK FLOW	a17000	Jun 23 1972
INSTANTANEOUS PEAK STAGE	b15.65	Jun 23 1972
INSTANTANEOUS LOW FLOW	23	Dec 1 1964
ANNUAL RUNOFF (CFSM)	1.49	
ANNUAL RUNOFF (INCHES)	20.23	
10 PERCENT EXCEEDS	613	
50 PERCENT EXCEEDS	211	
90 PERCENT EXCEEDS	86	

- a From rating curve extended above 3,600 ft³/s on basis of contracted-opening measurement of peak flow.
- b From floodmark in gage shelter.



1-YEAR HYDROGRAPH
OCTOBER 1, 1998 TO SEPTEMBER 30, 1999