



2005 Water Year
SCHUYLKILL RIVER BASIN
01472157 French Creek near Phoenixville, PA

Latitude: 40° 09 ' 05"

Longitude: 075° 36 ' 06"

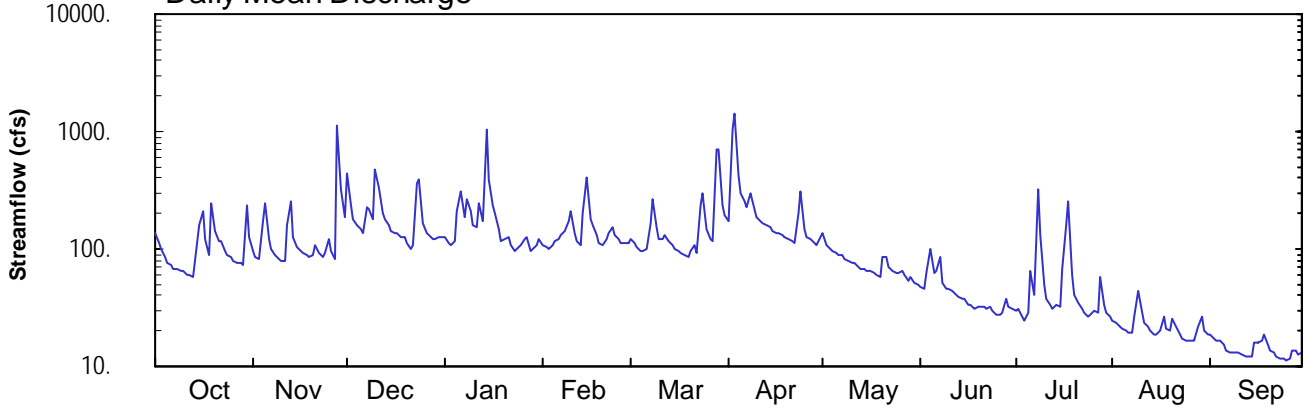
Hydrologic Unit Code: 02040203

Chester County

Datum: 160 feet

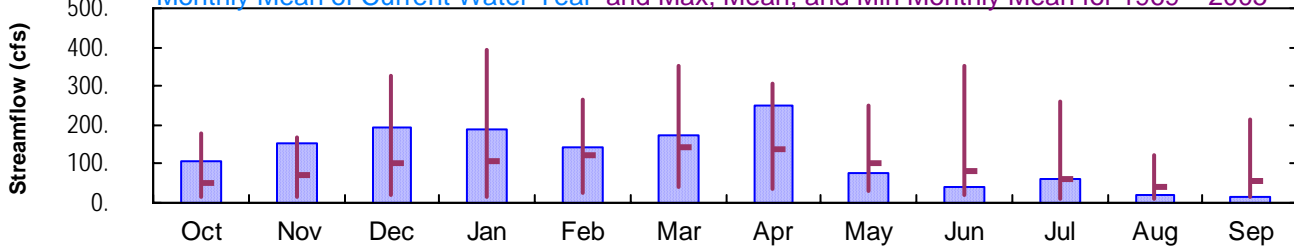
Drainage Area: 59.1 mi²

Daily Mean Discharge

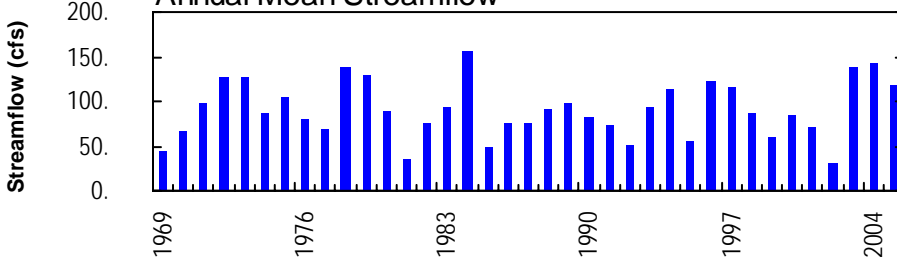


Monthly Statistics

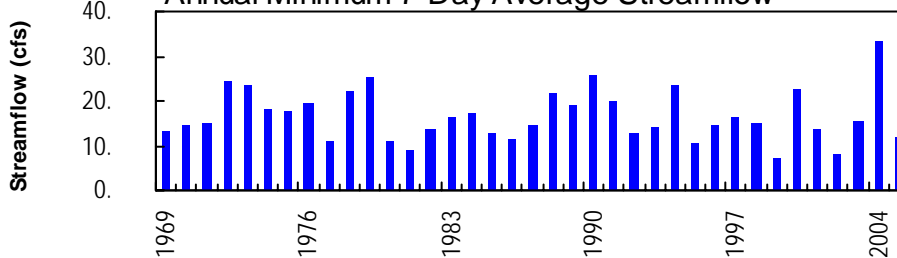
Monthly Mean of Current Water Year and Max, Mean, and Min Monthly Mean for 1969 – 2005



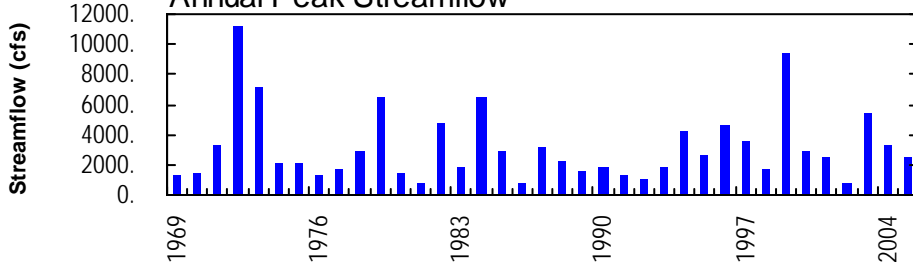
Annual Mean Streamflow



Annual Minimum 7-Day Average Streamflow



Annual Peak Streamflow



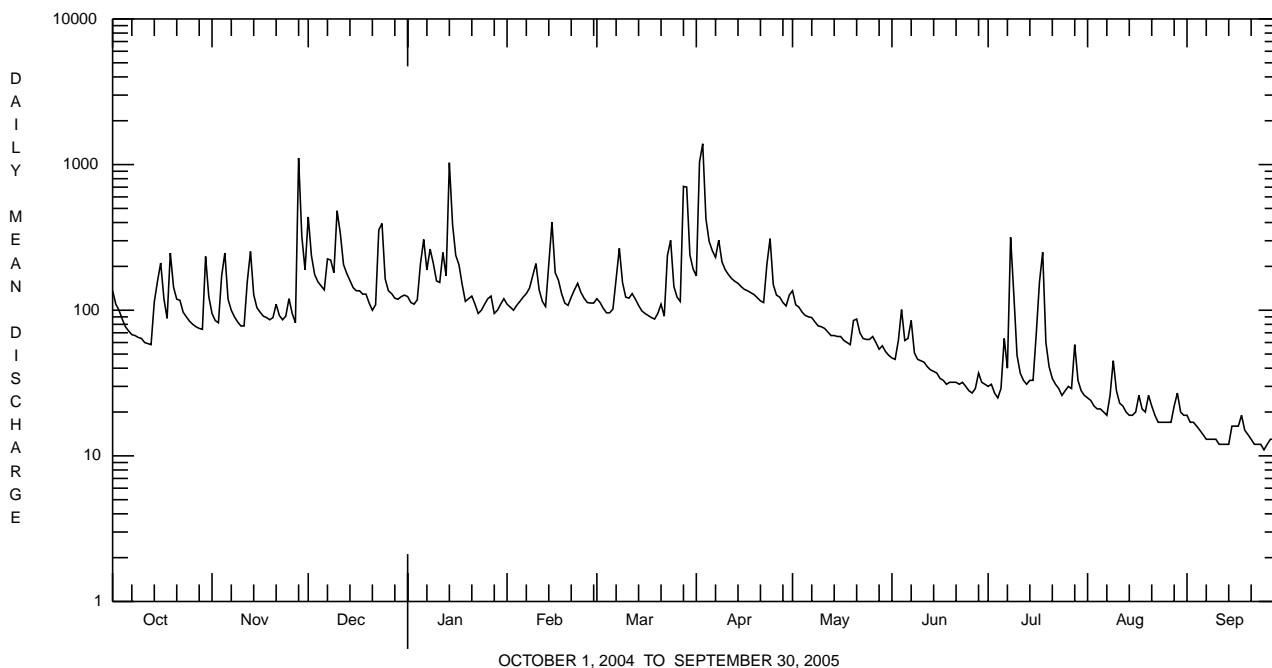
01472157-French Creek near Phoenixville

SCHUYLKILL RIVER BASIN

01472157 FRENCH CREEK NEAR PHOENIXVILLE, PA--Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1969 - 2005	
ANNUAL TOTAL	49571		42994			
ANNUAL MEAN	135		118		90.4	
HIGHEST ANNUAL MEAN					155	1984
LOWEST ANNUAL MEAN					30.4	2002
HIGHEST DAILY MEAN	1220	Sep 18	1390	Apr 3	4530	Jun 22 1972
LOWEST DAILY MEAN	30	Jul 10,11	11	Sep 25	7.1	Aug 7 1999
ANNUAL SEVEN-DAY MINIMUM	33	Jul 5	12	Sep 21	7.3	Aug 2 1999
MAXIMUM PEAK FLOW			2530	Apr 2	a11200	Jun 22 1972
MAXIMUM PEAK STAGE			8.79	Apr 2	13.66	Jun 22 1972
INSTANTANEOUS LOW FLOW			11	Sep 24-26	6.9	Aug 8 1999
ANNUAL RUNOFF (CFSM)	2.29		1.99		1.53	
ANNUAL RUNOFF (INCHES)	31.20		27.06		20.77	
10 PERCENT EXCEEDS	224		223		173	
50 PERCENT EXCEEDS	100		95		57	
90 PERCENT EXCEEDS	53		19		20	

a From rating curve extended above 2,500 ft³/s, on basis of slope-area measurement of peak flow.



SCHUYLKILL RIVER BASIN

01472157 FRENCH CREEK NEAR PHOENIXVILLE, PA--Continued

WATER-QUALITY RECORDS

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

PERIOD OF DAILY RECORD.--

WATER TEMPERATURE: November 1998 to April 1999, June 1999 to August 1999, June 2000 to September 2001.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

Date	Time	Agency col- lecting sample, code (00027)	Agency ana- lyzing sample, code (00028)	Instan- taneous dis- charge, cfs (00061)	Dis- solved oxygen, mg/L (00300)	pH, water, unfltrd field, std units (00400)	pH, water, unfltrd lab, std units (00403)	Specif. conduc- tance, wat unf lab, µS/cm 25 degC (90095)	Specif. conduc- tance, wat unf lab, µS/cm 25 degC (00095)	Temper- ature, water, deg C (00010)	Calcium water, fltrd, mg/L (00915)	Magnes- ium, water, fltrd, mg/L (00925)	Potas- sium, water, fltrd, mg/L (00935)	
OCT 2004 07...	0930	1028	80020	68	10.8	6.5	E6.9	154	163	11.4	15.3	4.74	1.66	
Date		Sodium, water, lab, fltrd, mg/L (00930)	ANC, wat unf fixed end pt, field, mg/L as CaCO3 (90410)	ANC, wat unf incrm. titr., field, mg/L as CaCO3 (00419)	Chlor- ide, water, fltrd, mg/L (00940)	Fluor- ide, water, fltrd, mg/L (00950)	Silica, water, fltrd, mg/L (00955)	Sulfate water, fltrd, mg/L (00945)	Ammonia water, fltrd, mg/L as N (00608)	Nitrite + nitrate water, fltrd, mg/L as N (00631)	Nitrite water, fltrd, mg/L as N (00613)	Ortho- phos- phate, water, fltrd, mg/L as P (00671)	Boron, water, fltrd, µg/L (01020)	Iron, water, fltrd, µg/L (01046)
OCT 2004 07...	8.27	39	38	13.2	E.1	17.3	12.1	<.04	1.62	E.004	<.02	9.9	129	

SCHUYLKILL RIVER BASIN

01472157 FRENCH CREEK NEAR PHOENIXVILLE, PA--Continued

BIOLOGICAL DATA
BENTHIC MACROINVERTEBRATESREMARKS.--Samples were collected using a Hess sampler with a mesh size of 500 μ m. Each sample covered a total area of 2.4 m².

Date	10/07/04
Benthic macroinvertebrate	Count
Platyhelminthes	
Turbellaria (FLATWORMS)	
Tricladida	
Planariidae	1
Nematoda (NEMATODES)	2
Mollusca	
Gastropoda (SNAILS)	
Basommatophora	
Ancyliidae	
<i>Ferrissia</i>	6
Mesogastropoda	
Hydrobiidae	
<i>Amnicola</i>	1
Bivalvia (CLAMS)	
Veneroida	
Sphaeriidae	1
Annelida	
Oligochaeta (AQUATIC EARTHWORMS)	
Tubificida	
Tubificidae	6
Arthropoda	
Acariformes	
Hydrachnidia (WATER MITES)	6
Insecta	
Ephemeroptera (MAYFLIES)	
Baetidae	
<i>Acentrella</i>	3
<i>Baetis</i>	5
Ephemerellidae	
<i>Dannella</i>	5
Heptageniidae	
<i>Epeorus</i>	8
<i>Stenonema</i>	23
Isonychiidae	
<i>Isonychia</i>	23
Odonata (DRAGONFLIES AND DAMSELFLIES)	
Gomphidae	
<i>Stylogomphus</i>	2
Plecoptera (STONEFLIES)	
Capniidae	1
Chloroperlidae	
<i>Haploperla</i>	1
Perlidae	
<i>Acroneuria</i>	3
<i>Aagnetina</i>	2
<i>Paragnetina</i>	1

SCHUYLKILL RIVER BASIN

01472157 FRENCH CREEK NEAR PHOENIXVILLE, PA--Continued

BIOLOGICAL DATA
BENTHIC MACROINVERTEBRATES--Continued

Date	10/07/04
Benthic macroinvertebrate	Count
Trichoptera (CADDISFLIES)	
Apataniidae	
<i>Apatania</i>	18
Brachycentridae	
<i>Micrasema</i>	24
Glossosomatidae	
<i>Glossosoma</i>	11
Hydropsychidae	
<i>Cheumatopsyche</i>	48
<i>Hydropsyche</i>	67
Hydroptilidae	
<i>Leucotrichia</i>	8
Lepidostomatidae	
<i>Lepidostoma</i>	4
Philopotamidae	
<i>Chimarra</i>	1
<i>Dolophilodes</i>	1
Polycentropodidae	
<i>Polycentropus</i>	1
Psychomyiidae	
<i>Psychomyia</i>	2
Rhyacophilidae	
<i>Rhyacophila</i>	1
Uenoidae	
<i>Neophylax</i>	2
Coleoptera (BEETLES)	
Elmidae (RIFFLE BEETLES)	
<i>Optioservus</i>	10
<i>Promoresia</i>	1
<i>Stenelmis</i>	1
Psephenidae (WATER PENNIES)	
<i>Psephenus</i>	7
Diptera (TRUE FLIES)	
Ceratopogonidae	
	1
Chironomidae (MIDGES)	
	22
Simuliidae (BLACK FLIES)	
<i>Simulium</i>	10
Total Organisms	
	340
Total Taxa	
	39