



2005 Water Year  
SCHUYLKILL RIVER BASIN  
01470853 Furnace Creek at Robesonia, PA

Latitude: 40° 20' 24"

Longitude: 076° 08' 37"

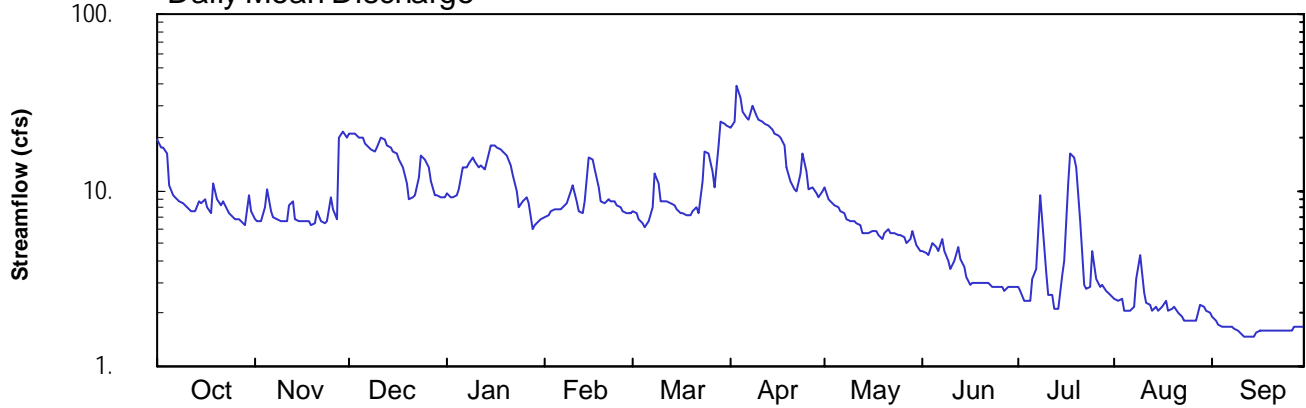
Hydrologic Unit Code: 02040203

Berks County

Datum: 527.20 feet

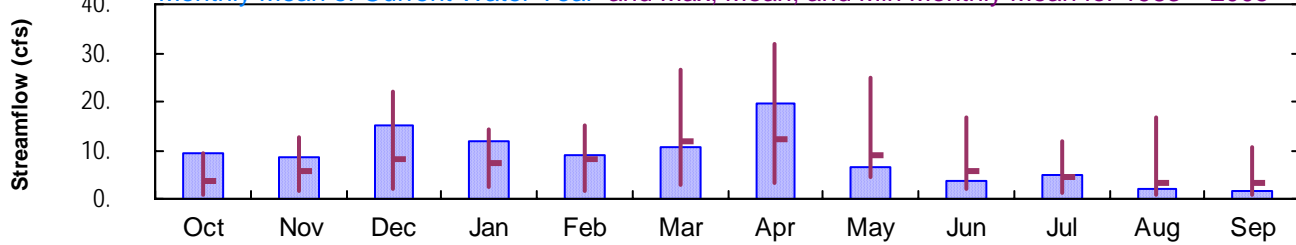
Drainage Area: 4.18 mi<sup>2</sup>

### Daily Mean Discharge

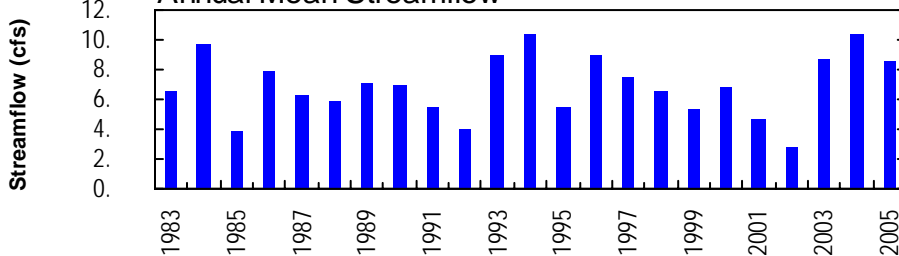


### Monthly Statistics

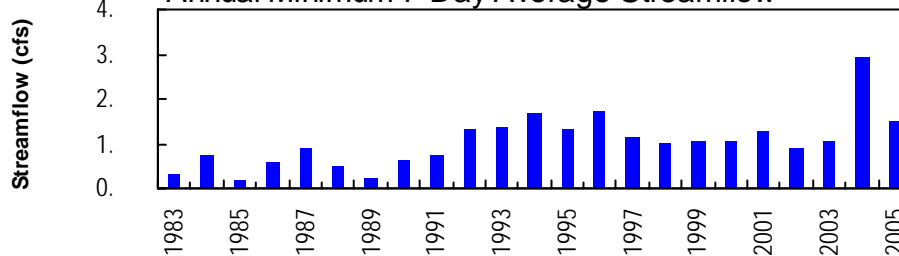
Monthly Mean of Current Water Year and Max, Mean, and Min Monthly Mean for 1983 – 2005



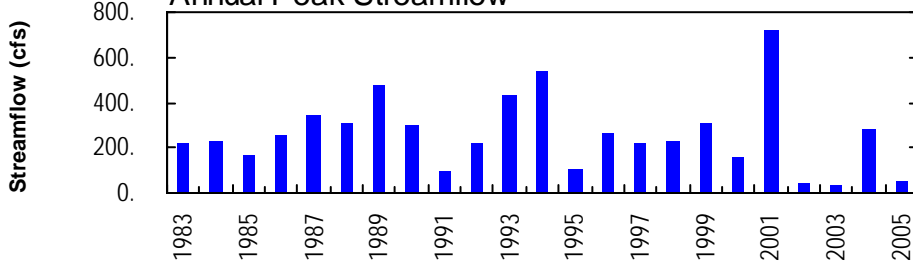
### Annual Mean Streamflow



### Annual Minimum 7-Day Average Streamflow



### Annual Peak Streamflow



01470853-Furnace Creek at Robesonia

## SCHUYLKILL RIVER BASIN

## 01470853 FURNACE CREEK AT ROBESONIA, PA

**LOCATION.**--Lat 40°20'24", long 76°08'37", Berks County, Hydrologic Unit 02040202, on left bank 500 ft upstream from Furnace Street in Robesonia.

**DRAINAGE AREA.**--4.18 mi<sup>2</sup>.

**PERIOD OF RECORD.**--October 1982 to September 2005. (Discontinued)

**REVISED RECORDS.**--WDR PA-87-1: 1986 (P).

**GAGE.**--Water-stage recorder and crest-stage gage. Datum of gage is 527.20 ft above National Geodetic Vertical Datum of 1929. Prior to Mar. 27, 1986, 760 ft downstream at different datum.

**REMARKS.**--Records poor. Flow slightly regulated by Furnace Creek Reservoir 0.6 mi upstream, until drained in early 2002. Reservoir now acts as a retention basin and releases water through an unregulated 10 in. outlet pipe. Several measurements of water temperature were made during the year. Satellite telemetry at station.

**PEAK DISCHARGES FOR CURRENT YEAR.**--Peak discharges greater than base discharge of 100 ft<sup>3</sup>/s and maximum (\*):

Date	Time	Discharge ft <sup>3</sup> /s	Gage Height (ft)	Date	Time	Discharge ft <sup>3</sup> /s	Gage Height (ft)
Apr. 3	1130	*49	*1.34	(No peaks above base discharge.)			

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	20	6.9	21	9.5	e7.0	7.6	22	10	4.5	2.8	2.4	1.9
2	18	6.6	21	9.2	e7.3	7.3	25	8.9	4.4	2.7	2.4	1.8
3	17	6.6	21	9.2	7.7	e6.8	39	8.6	4.3	2.3	2.4	1.7
4	16	8.0	20	9.3	7.7	e6.5	33	8.2	5.1	2.3	2.1	1.7
5	11	10	20	10	7.8	e6.2	28	8.0	4.8	2.4	2.1	1.7
6	9.5	7.5	19	13	7.8	6.7	26	7.7	4.5	3.2	2.1	1.7
7	9.1	7.1	18	14	7.9	8.1	25	7.4	5.3	3.6	2.2	1.7
8	8.7	6.8	17	14	8.3	12	30	6.9	4.6	9.5	3.2	1.7
9	8.4	6.6	17	15	9.9	11	26	6.6	4.0	6.7	4.3	1.6
10	8.2	6.6	18	14	11	8.7	25	6.6	3.6	3.4	2.6	1.5
11	7.8	6.6	20	14	8.7	8.6	25	6.5	3.9	2.6	2.3	1.5
12	7.6	8.2	20	14	7.7	8.7	24	6.3	4.7	2.5	2.2	1.5
13	7.6	8.6	18	13	7.5	8.5	23	5.8	4.1	2.1	2.1	1.5
14	8.7	6.9	17	16	8.6	8.2	22	5.8	3.7	2.1	2.2	1.5
15	8.5	6.6	17	18	15	7.7	21	5.8	3.2	3.3	2.1	1.6
16	9.0	6.6	16	18	15	7.4	20	5.9	2.9	4.0	2.2	1.6
17	8.0	6.6	15	17	13	7.5	20	5.9	3.0	11	2.4	1.6
18	7.3	6.6	14	17	10	7.3	18	5.5	3.0	16	2.1	1.6
19	11	6.3	e11	16	8.8	7.3	14	5.2	3.0	15	2.1	1.6
20	8.8	6.5	e9.0	16	8.4	7.7	11	5.7	3.0	14	2.2	1.6
21	8.2	7.6	e9.2	e14	8.8	8.1	10	6.0	3.0	6.7	2.0	1.6
22	8.7	6.7	9.4	e12	8.6	7.4	10	5.8	3.0	2.9	1.9	1.6
23	7.7	6.5	12	e10	8.7	11	13	5.7	2.8	2.8	1.8	1.6
24	7.3	6.7	16	e8.0	8.2	16	16	5.5	2.8	2.8	1.8	1.6
25	7.0	9.1	15	e8.6	8.1	16	13	5.5	2.8	4.5	1.8	1.6
26	6.9	7.8	14	e9.2	7.7	13	10	5.4	2.8	3.2	1.8	1.6
27	6.8	6.8	11	e8.5	7.4	10	10	5.1	2.7	2.8	1.8	1.7
28	6.5	20	9.4	e6.0	7.4	18	9.5	5.3	2.8	2.9	2.2	1.7
29	6.3	21	9.3	e6.3	---	25	9.2	5.8	2.8	2.7	2.2	1.7
30	9.3	20	9.2	e6.6	---	24	9.9	4.8	2.8	2.6	2.1	1.7
31	7.6	---	9.2	e6.8	---	23	---	4.5	---	2.5	2.0	---
TOTAL	292.5	254.4	472.7	372.2	250.0	331.3	587.6	196.7	107.9	147.9	69.1	49.0
MEAN	9.44	8.48	15.2	12.0	8.93	10.7	19.6	6.35	3.60	4.77	2.23	1.63
MAX	20	21	21	18	15	25	39	10	5.3	16	4.3	1.9
MIN	6.3	6.3	9.0	6.0	7.0	6.2	9.2	4.5	2.7	2.1	1.8	1.5
CFSM	2.26	2.03	3.65	2.87	2.14	2.56	4.69	1.52	0.86	1.14	0.53	0.39
IN.	2.60	2.26	4.21	3.31	2.22	2.95	5.23	1.75	0.96	1.32	0.61	0.44

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1983 - 2005, BY WATER YEAR (WY)

MEAN	3.58	5.78	8.28	7.32	8.27	11.6	12.1	9.00	5.90	4.40	3.42	3.21
MAX	9.44	12.8	22.0	14.3	15.2	26.7	31.8	24.7	16.7	11.7	16.8	10.6
(WY)	2005	2004	1997	1996	1996	1994	1993	1989	2003	1984	2004	2004
MIN	0.94	1.68	2.06	2.34	1.80	2.72	3.32	4.29	2.10	1.36	0.85	0.63
(WY)	1989	2001	2002	1983	2002	2002	1985	1997	1985	1983	1983	1983

e Estimated.

SCHUYLKILL RIVER BASIN

01470853 FURNACE CREEK AT ROBESONIA, PA--Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1983 - 2005	
ANNUAL TOTAL	3702.5		3131.3			
ANNUAL MEAN	10.1		8.58		6.90	
HIGHEST ANNUAL MEAN					10.5	1994
LOWEST ANNUAL MEAN					2.76	2002
HIGHEST DAILY MEAN	72	Aug 13	39	Apr 3	139	Dec 5 1993
LOWEST DAILY MEAN	2.5	Jul 5,6	1.5	Sep 10-14	0.11	Sep 11 1983
ANNUAL SEVEN-DAY MINIMUM	2.9	Jun 23	1.5	Sep 9	0.19	Sep 16 1985
MAXIMUM PEAK FLOW			49	Apr 3	a718	Dec 17 2000
MAXIMUM PEAK STAGE			b1.72	Jan 29	c4.72	Jan 19 1996
ANNUAL RUNOFF (CFSM)	2.42		2.05		1.65	
ANNUAL RUNOFF (INCHES)	32.95		27.87		22.42	
10 PERCENT EXCEEDS	18		18		14	
50 PERCENT EXCEEDS	8.6		7.4		4.8	
90 PERCENT EXCEEDS	4.6		2.0		1.4	

- a From rating curve extended above 308 ft<sup>3</sup>/s on basis of slope-area measurement of peak flow at gage height 3.11 ft.
- b Ice jam.
- c From peak indicator; ice jam.

