

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 mi².

PERIOD OF RECORD.--October 1982 to current year.

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

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 527.20 ft above sea level. Prior to Mar. 27, 1986, 760 ft downstream at different datum.

REMARKS.--Records fair except those for estimated daily discharges and those greater than 300 ft³/s, which are poor. Flow slightly regulated by Furnace Creek Reservoir 0.6 mi upstream. Several measurements of water temperature were made during the year.

PEAK DISCHARGES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 100 ft³/s and maximum (*):

Date	Time	Discharge ft ³ /s	Gage Height (ft)	Date	Time	Discharge ft ³ /s	Gage Height (ft)
Dec. 17	0945	*718	*a4.66	No other peak greater than base discharge.			

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.8	1.6	2.2	2.9	5.7	6.2	14	6.8	4.7	4.5	1.8	2.3
2	1.7	1.6	2.0	e2.9	5.8	6.0	13	6.6	6.6	3.8	1.7	1.5
3	1.5	1.6	1.8	e2.9	5.1	6.0	12	6.5	4.8	2.9	1.6	1.5
4	1.6	1.5	1.7	2.8	4.3	6.5	11	6.2	4.4	3.3	1.7	1.6
5	1.4	1.6	1.6	2.8	e4.1	6.8	10	6.0	4.2	3.1	1.7	1.6
6	1.4	1.6	1.5	2.8	e4.1	6.1	12	6.0	4.0	2.8	1.7	1.5
7	1.4	1.6	1.5	2.8	e4.1	6.0	11	5.8	4.0	2.6	1.7	1.4
8	1.4	1.6	1.5	2.8	4.3	6.2	11	5.8	3.8	2.6	1.6	1.4
9	1.3	1.8	1.6	e2.8	4.4	6.5	10	5.8	3.6	2.9	1.5	1.4
10	1.3	2.2	1.5	e2.7	12	6.3	10	5.4	3.6	2.7	6.0	1.8
11	1.3	2.1	1.6	2.8	7.0	6.3	11	5.2	3.6	2.6	6.2	1.6
12	1.3	1.8	e1.5	2.8	5.7	6.6	12	5.0	3.6	2.3	3.1	1.3
13	1.3	1.7	1.4	e2.7	5.8	18	10	4.9	4.6	2.2	3.1	1.3
14	1.3	1.7	6.8	e2.7	6.7	13	9.7	4.7	3.6	2.2	2.9	1.6
15	1.3	1.5	4.3	2.7	9.3	11	9.3	4.7	3.4	2.2	2.2	1.6
16	1.3	1.4	4.6	2.7	8.7	12	14	4.7	4.1	2.1	2.1	1.6
17	1.5	1.5	91	2.8	9.9	13	12	4.5	6.5	2.2	1.9	1.5
18	1.7	1.5	14	2.8	7.1	11	13	4.6	3.7	2.9	1.9	1.5
19	1.7	1.5	7.7	6.6	6.5	9.6	12	4.7	3.3	2.3	1.8	1.4
20	1.7	1.5	6.1	6.5	6.6	9.4	11	4.5	3.2	2.1	1.8	2.4
21	1.7	1.4	4.9	5.5	6.5	14	11	6.5	3.8	2.1	1.6	3.5
22	1.7	1.4	e4.6	e4.5	5.5	15	10	9.2	5.9	1.9	1.6	1.6
23	1.7	1.4	e3.9	e4.0	5.8	12	9.5	7.5	5.9	1.9	1.6	1.5
24	1.6	1.4	e3.9	e3.4	5.5	11	9.1	5.2	4.2	1.9	1.6	4.2
25	1.5	1.4	3.5	e3.1	7.3	10	8.6	4.7	3.5	1.9	1.6	11
26	1.5	1.5	e3.4	e3.1	8.7	9.6	8.3	7.4	3.3	2.6	1.6	2.7
27	1.5	1.4	3.2	e3.0	6.9	8.8	7.9	9.8	3.2	2.1	1.5	2.2
28	1.5	1.9	3.2	e3.0	6.7	8.4	7.5	8.2	3.0	1.8	1.5	2.1
29	1.5	2.4	e3.0	e2.9	---	8.8	7.2	5.4	2.9	1.8	1.6	1.9
30	1.6	3.4	3.0	8.6	---	28	6.9	5.0	2.8	1.9	1.5	1.8
31	1.6	---	3.0	6.5	---	16	---	4.5	---	1.8	1.6	---
TOTAL	46.6	50.5	195.5	110.9	180.1	314.1	314.0	181.8	121.8	76.0	65.3	64.3
MEAN	1.50	1.68	6.31	3.58	6.43	10.1	10.5	5.86	4.06	2.45	2.11	2.14
MAX	1.8	3.4	91	8.6	12	28	14	9.8	6.6	4.5	6.2	11
MIN	1.3	1.4	1.4	2.7	4.1	6.0	6.9	4.5	2.8	1.8	1.5	1.3
CFSM	.36	.40	1.51	.86	1.54	2.42	2.50	1.40	.97	.59	.50	.51
IN.	.41	.45	1.74	.99	1.60	2.80	2.79	1.62	1.08	.68	.58	.57

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1983 - 2001, BY WATER YEAR (WY)

	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001
MEAN	3.22	5.47	7.68	7.01	8.50	12.1	12.1	9.41	5.63	4.28	2.91	2.90							
MAX	7.31	10.4	22.0	14.3	15.2	26.7	31.8	24.7	14.8	11.7	8.98	9.05							
(WY)	1997	1987	1997	1996	1996	1994	1993	1989	1984	1984	1986	1999							
MIN	.94	1.68	2.18	2.34	3.06	5.18	3.32	4.29	2.10	1.36	.85	.63							
(WY)	1989	2001	1999	1983	1992	1985	1985	1997	1985	1983	1983	1983							

a From outside floodmark.
e Estimated.

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01470853 FURNACE CREEK AT ROBESONIA, PA--Continued

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1983 - 2001	
ANNUAL TOTAL	2282.3		1720.9			
ANNUAL MEAN	6.24		4.71		6.75	
HIGHEST ANNUAL MEAN					10.5	1994
LOWEST ANNUAL MEAN					3.82	1985
HIGHEST DAILY MEAN	91	Dec 17	91	Dec 17	139	Dec 5 1993
LOWEST DAILY MEAN	1.0	Aug 27	1.3	Oct 9 ^b	.11	Sep 11 1983
ANNUAL SEVEN-DAY MINIMUM	1.1	Aug 23	1.3	Oct 9	.19	Sep 16 1985
MAXIMUM PEAK FLOW			c718	Dec 17	c718	Dec 17 2000
MAXIMUM PEAK STAGE			a4.66	Dec 17	d4.72	Jan 19 1996
ANNUAL RUNOFF (CFSM)	1.49		1.13		1.62	
ANNUAL RUNOFF (INCHES)	20.31		15.32		21.94	
10 PERCENT EXCEEDS	13		10		13	
50 PERCENT EXCEEDS	4.1		3.1		4.6	
90 PERCENT EXCEEDS	1.3		1.5		1.4	

- a From outside floodmark.
- b Also Oct. 10-16, Sept. 12, 13.
- c From rating curve extended above 308 ft³/s on basis of slope-area measurement of peak flow at gage height 3.11 ft.
- d From peak indicator; ice jam.

