

## SHERMAN CREEK BASIN

## 01567500 BIXLER RUN NEAR LOYSVILLE, PA

**LOCATION.**--Lat 40°22'15", long 77°24'09", Perry County, Hydrologic Unit 02050305, on right bank 400 ft upstream from bridge on State Highway 850 at Bixler, 2.3 mi upstream from mouth, and 3.6 mi west of Loysville.

**DRAINAGE AREA.**--15.0 mi<sup>2</sup>.

**REVISED RECORDS.**--WDR PA-90-2: 1989 (M). WDR PA-01-2: 1957, 1972, 1977-79, 1981, 1984, 1989, 1991, 1994, 1995 (P).

**PERIOD OF RECORD.**--February 1954 to current year.

**GAGE.**--Water-stage recorder. Datum of gage is 601.22 ft above National Geodetic Vertical Datum of 1929. Prior to May 14, 1954, nonrecording gage and crest-stage gage 400 ft downstream at same datum.

**REMARKS.**--No estimated daily discharges. Records poor. Several measurements of water temperature were made during the year. Satellite telemetry at station.

**PEAK DISCHARGES FOR CURRENT YEAR.**--Peak discharges greater than a base discharge of 250 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)
May 18	0615	*225	*5.28	(No peaks above base discharge.)			

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	4.6	4.1	4.8	3.7	5.3	3.7	13	17	8.2	3.4	2.5	2.3
2	4.7	4.0	3.5	3.8	5.0	4.3	9.2	22	7.0	3.2	2.5	2.6
3	4.7	3.9	3.5	3.8	4.6	24	8.3	16	6.1	3.1	2.5	2.3
4	4.8	3.7	3.4	3.7	4.6	9.1	7.2	13	6.0	2.9	2.6	2.1
5	4.9	3.8	3.4	3.6	3.8	5.9	6.7	12	6.2	3.0	2.6	1.9
6	5.3	3.9	3.3	3.7	3.9	5.4	6.4	11	12	2.7	2.7	1.9
7	5.4	3.9	3.3	4.5	4.2	4.9	5.9	10	11	3.0	2.6	1.7
8	5.5	3.9	4.1	3.9	3.8	4.4	5.8	9.3	6.9	3.0	2.7	1.6
9	6.2	4.0	5.4	4.0	3.5	4.4	6.1	22	6.0	3.4	2.6	1.6
10	6.5	3.9	3.9	6.1	3.8	7.4	7.0	20	5.6	4.0	2.6	1.6
11	6.4	3.9	3.8	12	6.0	4.9	5.6	14	5.2	2.9	2.6	1.7
12	6.4	3.9	3.5	8.2	4.4	4.6	5.3	15	4.9	2.8	2.5	2.0
13	5.9	3.9	3.8	6.1	4.1	4.7	5.5	22	5.0	2.8	2.4	2.2
14	6.9	4.1	5.2	5.1	3.7	4.8	6.5	24	8.7	2.9	2.4	2.3
15	9.8	4.1	5.1	4.8	3.7	4.4	15	19	13	2.8	2.4	3.6
16	6.3	3.9	4.1	4.5	3.8	4.9	9.1	16	7.5	2.6	2.6	3.6
17	6.1	3.9	4.2	4.2	3.8	4.5	8.0	14	6.0	2.5	2.4	2.6
18	5.7	3.9	6.3	3.9	3.5	16	7.4	121	5.6	2.5	2.4	2.6
19	5.7	4.1	5.6	3.8	3.4	16	8.0	54	5.1	2.7	2.1	2.6
20	6.0	4.2	5.1	3.8	3.6	47	7.4	36	4.8	2.7	2.1	2.7
21	6.2	4.0	4.9	3.8	3.6	31	7.1	27	4.5	2.5	1.8	2.8
22	6.6	4.1	4.7	4.0	3.4	18	13	21	4.2	2.5	2.0	3.8
23	5.4	4.0	4.8	4.6	3.4	13	9.3	18	4.0	2.9	3.2	4.8
24	5.5	4.4	5.3	8.4	3.3	10	8.2	15	3.8	3.4	2.9	2.6
25	5.7	11	5.0	7.6	3.4	8.7	8.6	13	3.9	2.9	2.6	2.4
26	5.6	6.9	4.8	5.5	3.6	16	7.5	12	3.8	2.9	2.2	3.3
27	5.6	4.6	4.6	4.8	4.0	23	6.6	12	4.1	2.9	2.1	11
28	5.2	4.1	4.7	4.4	3.7	15	25	15	4.6	3.0	2.3	6.6
29	5.0	4.0	4.7	4.2	---	13	29	10	3.7	2.8	2.6	3.0
30	4.9	4.9	4.2	4.2	---	11	20	9.2	3.5	2.5	2.3	2.6
31	4.3	---	3.9	4.7	---	10	---	8.4	---	2.5	2.2	---
TOTAL	177.8	131.0	136.9	153.4	110.9	354.0	287.7	647.9	180.9	89.7	76.0	88.4
MEAN	5.74	4.37	4.42	4.95	3.96	11.4	9.59	20.9	6.03	2.89	2.45	2.95
MAX	9.8	11	6.3	12	6.0	47	29	121	13	4.0	3.2	11
MIN	4.3	3.7	3.3	3.6	3.3	3.7	5.3	8.4	3.5	2.5	1.8	1.6
CFSM	0.38	0.29	0.29	0.33	0.26	0.76	0.64	1.39	0.40	0.19	0.16	0.20
IN.	0.44	0.32	0.34	0.38	0.28	0.88	0.71	1.61	0.45	0.22	0.19	0.22

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1954 - 2002, BY WATER YEAR (WY)

MEAN	10.7	15.2	18.9	18.9	27.7	39.1	32.7	23.1	17.3	11.4	6.81	7.92
MAX	48.6	61.9	66.8	80.9	91.0	135	122	81.2	172	112	32.3	55.9
(WY)	1977	1957	1997	1996	1984	1994	1993	1978	1972	1989	1955	1996
MIN	2.07	2.96	2.70	3.51	3.96	9.77	9.59	6.79	4.12	2.62	2.28	2.38
(WY)	1964	1966	1966	1981	2002	1990	2002	1969	1965	1966	1966	1963

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01567500 BIXLER RUN NEAR LOYSVILLE, PA--Continued

SUMMARY STATISTICS	FOR 2001 CALENDAR YEAR		FOR 2002 WATER YEAR		WATER YEARS 1954 - 2002	
ANNUAL TOTAL	4655.0		2434.6		19.2	
ANNUAL MEAN	12.8		6.67		42.6	
HIGHEST ANNUAL MEAN					6.67	
LOWEST ANNUAL MEAN					2002	
HIGHEST DAILY MEAN	167	Jun 22	121	May 18	2120	Jun 22 1972
LOWEST DAILY MEAN	3.3	Dec 6,7	1.6	Sep 8-10	1.6	Jul 21 1999
ANNUAL SEVEN-DAY MINIMUM	3.5	Dec 2	1.7	Sep 5	1.7	Sep 5 2002
MAXIMUM PEAK FLOW			225	May 18	<b>a</b> 7100	Jun 20 1989
MAXIMUM PEAK STAGE			5.28	May 18	<b>b</b> 12.90	Jun 20 1989
INSTANTANEOUS LOW FLOW			1.6	Sep 7-11	1.5	Feb 2 1959
ANNUAL RUNOFF (CFSM)	0.85		0.44		1.28	
ANNUAL RUNOFF (INCHES)	11.54		6.04		17.39	
10 PERCENT EXCEEDS	29		13		38	
50 PERCENT EXCEEDS	6.9		4.4		9.5	
90 PERCENT EXCEEDS	4.1		2.5		3.6	

**a** From rating curve extended above 2,700 ft<sup>3</sup>/s on basis of contracted-opening and flow-over-road measurement of peak flow.  
**b** From outside floodmark; 12.19 ft in gage well.

