

## 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 fair. 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)
Mar. 13	1600	350	6.00	Aug. 11	1430	*524	*6.59
Mar. 20	1915	405	6.21	Sept. 4	0200	315	5.84
June 7	1345	397	6.18	Sept. 23	0415	297	5.74

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.6	19	11	85	9.8	17	33	16	30	11	12	9.7
2	2.4	15	10	89	10	19	32	16	22	12	8.4	15
3	2.4	12	9.6	57	10	21	30	15	65	13	18	32
4	2.6	11	8.7	46	29	16	29	14	94	11	11	100
5	2.9	10	9.3	38	15	26	43	16	66	10	8.8	32
6	2.7	21	9.3	34	11	74	34	16	50	11	8.2	23
7	2.7	13	8.6	30	11	33	34	15	147	14	7.8	19
8	2.4	12	8.7	32	10	27	38	17	96	10	7.7	17
9	2.5	11	8.1	47	9.5	86	46	18	71	11	28	16
10	3.0	11	7.9	41	9.6	40	45	22	52	11	51	14
11	18	10	28	34	9.2	29	55	20	45	24	111	13
12	16	23	45	28	9.0	33	52	19	39	12	39	12
13	9.3	22	38	26	8.7	117	44	18	36	10	24	15
14	6.4	16	83	23	8.3	87	38	16	31	9.5	19	14
15	4.7	14	65	21	8.2	85	35	15	27	9.2	16	13
16	33	14	47	18	6.6	83	31	60	24	9.1	14	11
17	21	43	34	18	7.3	86	28	52	22	8.5	17	10
18	12	33	27	15	9.7	84	26	65	26	8.5	13	11
19	9.9	24	24	15	9.2	64	28	52	25	8.6	12	44
20	8.7	20	36	14	9.6	169	24	42	28	8.0	11	27
21	7.5	18	27	13	9.3	143	24	39	25	7.8	11	21
22	7.0	24	24	11	28	81	31	32	22	9.9	10	19
23	6.8	19	22	11	107	60	24	30	19	10	9.7	88
24	6.5	16	20	11	58	49	23	53	17	9.2	9.1	37
25	6.9	15	21	11	36	42	22	41	16	7.9	8.8	28
26	19	14	18	11	26	39	23	38	15	7.6	9.9	24
27	10	14	17	10	21	35	21	36	14	7.5	11	24
28	8.6	13	16	9.7	19	30	19	34	13	7.5	9.3	44
29	10	12	16	9.6	---	30	18	31	13	7.4	8.7	25
30	28	12	15	9.6	---	34	17	26	12	7.1	12	22
31	27	---	17	9.6	---	34	---	26	---	7.2	9.8	---
TOTAL	302.5	511	731.2	827.5	515.0	1773	947	910	1162	310.5	546.2	779.7
MEAN	9.76	17.0	23.6	26.7	18.4	57.2	31.6	29.4	38.7	10.0	17.6	26.0
MAX	33	43	83	89	107	169	55	65	147	24	111	100
MIN	2.4	10	7.9	9.6	6.6	16	17	14	12	7.1	7.7	9.7
CFSM	0.65	1.14	1.57	1.78	1.23	3.81	2.10	1.96	2.58	0.67	1.17	1.73
IN.	0.75	1.27	1.81	2.05	1.28	4.40	2.35	2.26	2.88	0.77	1.35	1.93

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1954 - 2003, BY WATER YEAR (WY)

MEAN	10.7	15.2	19.0	19.1	27.5	39.5	32.7	23.3	17.8	11.4	7.02	8.28
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 2002 CALENDAR YEAR		FOR 2003 WATER YEAR		WATER YEARS 1954 - 2003	
ANNUAL TOTAL	3533.6		9315.6			
ANNUAL MEAN	9.68		25.5		19.3	
HIGHEST ANNUAL MEAN					42.6	1972
LOWEST ANNUAL MEAN					6.67	2002
HIGHEST DAILY MEAN	121	May 18	169	Mar 20	2120	Jun 22 1972
LOWEST DAILY MEAN	1.6	Sep 8-10	2.4	Oct 2,3,8	1.6	Jul 21 1999
ANNUAL SEVEN-DAY MINIMUM	1.7	Sep 5	2.6	Oct 2	1.7	Sep 5 2002
MAXIMUM PEAK FLOW			524	Aug 11	<b>a</b> 7100	Jun 20 1989
MAXIMUM PEAK STAGE			6.59	Aug 11	<b>b</b> 12.90	Jun 20 1989
INSTANTANEOUS LOW FLOW			2.4	Oct 2-4,7-9	1.5	Feb 2 1959
ANNUAL RUNOFF (CFSM)	0.65		1.70		1.29	
ANNUAL RUNOFF (INCHES)	8.76		23.10		17.51	
10 PERCENT EXCEEDS	21		52		39	
50 PERCENT EXCEEDS	5.5		18		9.6	
90 PERCENT EXCEEDS	2.5		8.5		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.

