

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 mi².

REVISED RECORDS.--WDR PA-90-2: 1989 (M).

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

GAGE.--Water-stage recorder. Datum of gage is 601.22 ft above sea level. Prior to May 14, 1954, nonrecording gage and crest-stage gage 400 ft downstream at same datum.

REMARKS.--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 ft³/s and maximum (*):

Date	Time	Discharge ft ³ /s	Gage Height (ft)	Date	Time	Discharge ft ³ /s	Gage Height (ft)
June 22	0345	*391	*6.16	No other peak greater than base discharge.			

REVISIONS.--The peak discharges and annual maximum(*) reported for water years 1957, 1972, 1977-79, 1981, 1984, 1989, 1991, 1994, and 1995 have been revised as shown in the following table.

Water Year	Date	Discharge ft ³ /s	Gage Height (ft)
1957	Nov. 1, 1956	*5,300	*10.39
1972	July 16, 1972	*2,850	*9.69
	June 22, 1972	2,050	8.90
1977	Oct. 9, 1976	*1,320	*7.92
1978	June 27, 1978	*3,250	*10.03
	May 13, 1978	900	7.15
	May 14, 1978	1,000	7.32
1979	Jan. 24, 1979	*1,050	*7.42
	Feb. 26, 1979	740	6.80
1981	Feb. 11, 1981	*1,550	*8.22
	Feb. 23, 1981	700	6.72
1984	Feb. 14, 1984	*3,100	*9.95
1989	June 20, 1989	*7,100	*12.90
1991	Oct. 23, 1990	*750	*6.83
1994	Nov. 28, 1993	*1,050	*7.43
1995	Jan. 20, 1995	*800	*6.95

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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	4.5	5.7	6.0	e4.7	24	7.8	48	15	8.7	18	5.8	4.6
2	4.5	5.6	5.7	e4.6	20	7.8	40	14	11	16	5.5	4.4
3	4.6	5.1	5.4	e4.3	16	7.7	34	14	9.8	14	5.5	4.3
4	4.6	5.2	5.5	e4.3	14	8.2	30	13	8.3	14	5.7	4.3
5	4.7	5.2	5.9	e4.4	13	8.9	26	12	7.7	18	5.6	4.2
6	5.0	5.3	4.9	e4.5	13	7.9	30	12	7.3	15	5.3	4.2
7	4.8	5.3	e4.7	e4.5	13	8.7	26	11	7.3	12	5.1	4.2
8	4.6	5.1	e4.6	e4.4	11	11	26	11	6.9	16	4.9	4.2
9	4.6	5.4	e4.5	e4.3	12	15	32	11	6.5	12	5.0	4.3
10	4.7	15	e4.4	e4.0	16	15	38	10	6.4	11	6.5	5.1
11	4.8	6.9	e4.3	e4.1	13	16	37	9.9	6.3	10	6.0	4.7
12	4.7	5.7	e4.2	e4.4	11	16	36	9.7	8.7	9.3	5.6	4.5
13	4.5	5.1	e4.2	e4.3	11	36	33	9.1	9.6	8.9	5.6	4.3
14	4.5	4.8	e7.1	e4.2	12	31	29	8.8	7.1	8.5	5.2	4.9
15	4.8	4.8	e11	e4.3	13	25	30	8.8	7.3	8.2	5.0	4.6
16	5.2	4.6	e23	e4.4	12	25	74	8.4	14	7.9	5.0	4.6
17	6.9	4.6	68	e4.6	13	28	63	8.2	17	7.7	5.1	4.7
18	26	4.3	24	e4.7	10	25	50	8.5	9.4	7.4	4.9	4.7
19	7.6	4.2	16	e15	9.6	21	40	8.3	8.1	7.3	4.9	4.8
20	5.7	4.2	12	e16	10	19	35	7.9	24	7.0	5.0	5.8
21	5.0	4.3	10	e10	9.4	65	32	11	69	6.7	4.8	5.9
22	4.7	4.2	8.7	e9.0	8.1	91	29	17	167	6.4	4.7	5.4
23	4.6	3.9	e7.0	e8.2	8.7	56	26	31	149	6.3	5.0	5.2
24	4.4	4.0	e6.2	e8.0	8.1	43	24	13	60	6.2	5.2	7.2
25	4.3	4.2	e5.8	e7.8	9.1	35	21	11	40	6.7	4.7	9.2
26	4.2	17	e5.6	e7.1	9.9	30	20	13	30	9.3	4.7	5.6
27	4.2	9.3	e5.5	e6.8	9.0	25	19	12	25	6.7	4.7	5.0
28	5.0	6.6	e5.3	e6.5	8.2	23	17	11	21	6.2	4.7	5.1
29	5.0	6.0	e5.1	e5.9	---	23	16	9.8	19	6.2	4.6	5.2
30	5.1	6.8	e5.0	e20	---	118	15	8.9	17	6.4	4.3	5.2
31	5.6	---	e4.9	30	---	62	---	8.2	---	6.2	4.5	---
TOTAL	173.4	178.4	294.5	229.3	337.1	911.0	976	356.5	788.4	301.5	159.1	150.4
MEAN	5.59	5.95	9.50	7.40	12.0	29.4	32.5	11.5	26.3	9.73	5.13	5.01
MAX	26	17	68	30	24	118	74	31	167	18	6.5	9.2
MIN	4.2	3.9	4.2	4.0	8.1	7.7	15	7.9	6.3	6.2	4.3	4.2
CFSM	.37	.40	.63	.49	.80	1.96	2.17	.77	1.75	.65	.34	.33
IN.	.43	.44	.73	.57	.84	2.26	2.42	.88	1.96	.75	.39	.37

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1954 - 2001, BY WATER YEAR (WY)

MEAN	10.8	15.4	19.2	19.2	28.2	39.7	33.2	23.2	17.6	11.6	6.90	8.02
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	6.67	9.77	10.4	6.79	4.12	2.62	2.28	2.38
(WY)	1964	1966	1966	1981	1992	1990	1963	1969	1965	1966	1966	1963

e Estimated.

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01567500 BIXLER RUN NEAR LOYSVILLE, PA--Continued

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1954 - 2001	
ANNUAL TOTAL	5555.6		4855.6			
ANNUAL MEAN	15.2		13.3		19.5	
HIGHEST ANNUAL MEAN					42.6	1972
LOWEST ANNUAL MEAN					7.59	1969
HIGHEST DAILY MEAN	82	Apr 23	167	Jun 22	2120	Jun 22 1972
LOWEST DAILY MEAN	3.9	Nov 23	3.9	Nov 23	1.6	Jul 21 1999
ANNUAL SEVEN-DAY MINIMUM	4.1	Nov 19	4.1	Nov 19	1.9	Sep 6 1966
MAXIMUM PEAK FLOW			391	Jun 22	a 7100	Jun 20 1989
MAXIMUM PEAK STAGE			6.16	Jun 22	b 12.90	Jun 20 1989
INSTANTANEOUS LOW FLOW					1.5	Feb 2 1959
ANNUAL RUNOFF (CFSM)	1.01		.89		1.30	
ANNUAL RUNOFF (INCHES)	13.78		12.04		17.63	
10 PERCENT EXCEEDS	35		29		39	
50 PERCENT EXCEEDS	8.6		7.6		9.6	
90 PERCENT EXCEEDS	4.5		4.4		3.6	

a From rating curve extended above 2,700 ft³/s on basis of contracted-opening and flow-over-road measurement of peak flow.
b From outside floodmark; 12.19 ft in gage well.

