

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)
Dec. 14	1430	*305	*5.55	June 21	2115	301	5.53

**DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES**

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	37	7.6	16	11	e8.0	46	20	25	14	9.2	14	6.0
2	24	23	15	11	e7.5	39	19	24	12	8.4	11	5.3
3	18	21	14	11	e8.0	33	20	21	11	8.5	7.8	4.7
4	25	13	13	11	e7.5	29	61	20	11	8.6	7.1	4.5
5	22	12	12	10	e7.5	26	34	19	12	7.7	6.4	4.4
6	16	11	12	9.3	e7.0	22	30	19	50	7.2	7.9	4.3
7	14	10	11	9.2	e7.0	20	26	17	22	6.8	8.5	4.3
8	12	9.8	9.9	8.8	e7.0	20	35	16	18	6.3	6.6	4.3
9	12	9.6	9.6	8.8	e7.0	19	45	15	15	6.3	5.8	4.3
10	36	9.1	11	16	e7.5	17	34	14	13	6.8	5.2	4.3
11	23	8.7	10	15	e10	24	31	13	12	6.2	4.9	4.6
12	18	8.4	9.5	12	e12	79	28	12	13	5.9	4.7	4.7
13	17	8.4	10	12	e11	39	25	12	12	5.8	4.7	5.3
14	24	8.7	77	9.8	e40	32	23	11	13	10	4.7	4.5
15	16	9.8	46	e9.0	e35	28	22	11	13	15	4.8	4.6
16	15	9.8	33	e8.5	e27	26	21	10	12	18	4.5	5.0
17	14	9.8	26	e8.0	e25	35	35	10	10	13	4.5	5.0
18	13	9.1	22	e7.5	e23	24	65	9.7	10	8.6	4.6	4.9
19	11	9.1	19	e7.5	e21	23	58	22	9.6	7.8	4.6	5.9
20	14	9.7	25	e10	e20	22	47	25	8.5	7.6	4.3	5.6
21	12	10	24	e9.0	e21	66	65	16	36	7.1	4.1	5.2
22	11	9.7	19	e8.5	e25	78	75	28	27	6.8	4.1	5.1
23	11	9.4	18	e8.0	e30	58	82	30	15	6.2	4.6	5.3
24	9.6	9.1	17	e8.0	e35	48	61	59	12	6.2	4.7	5.7
25	8.8	13	15	e9.0	e40	42	51	31	19	6.2	4.2	7.0
26	8.4	59	15	e8.5	e45	37	44	23	29	6.1	4.1	9.8
27	8.4	48	15	e8.0	e35	32	39	21	16	6.1	4.4	5.8
28	7.8	30	13	e8.5	e75	31	35	21	14	13	6.8	5.1
29	7.8	23	12	e7.5	e60	26	31	24	12	16	4.8	4.8
30	7.8	19	12	e8.0	---	24	27	17	10	9.2	4.7	4.5
31	7.8	---	12	e8.0	---	21	---	15	---	13	4.6	---
TOTAL	481.4	447.8	573.0	296.4	664.0	1066	1189	610.7	481.1	269.6	177.7	154.8
MEAN	15.5	14.9	18.5	9.56	22.9	34.4	39.6	19.7	16.0	8.70	5.73	5.16
MAX	37	59	77	16	75	79	82	59	50	18	14	9.8
MIN	7.8	7.6	9.5	7.5	7.0	17	19	9.7	8.5	5.8	4.1	4.3
CFSM	1.04	1.00	1.23	.64	1.53	2.29	2.64	1.31	1.07	.58	.38	.34
IN.	1.19	1.11	1.42	.74	1.65	2.64	2.95	1.51	1.19	.67	.44	.38

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1954 - 2000, BY WATER YEAR (WY)

MEAN	10.9	15.6	19.4	19.5	28.5	39.9	33.2	23.4	17.4	11.7	6.93	8.08
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

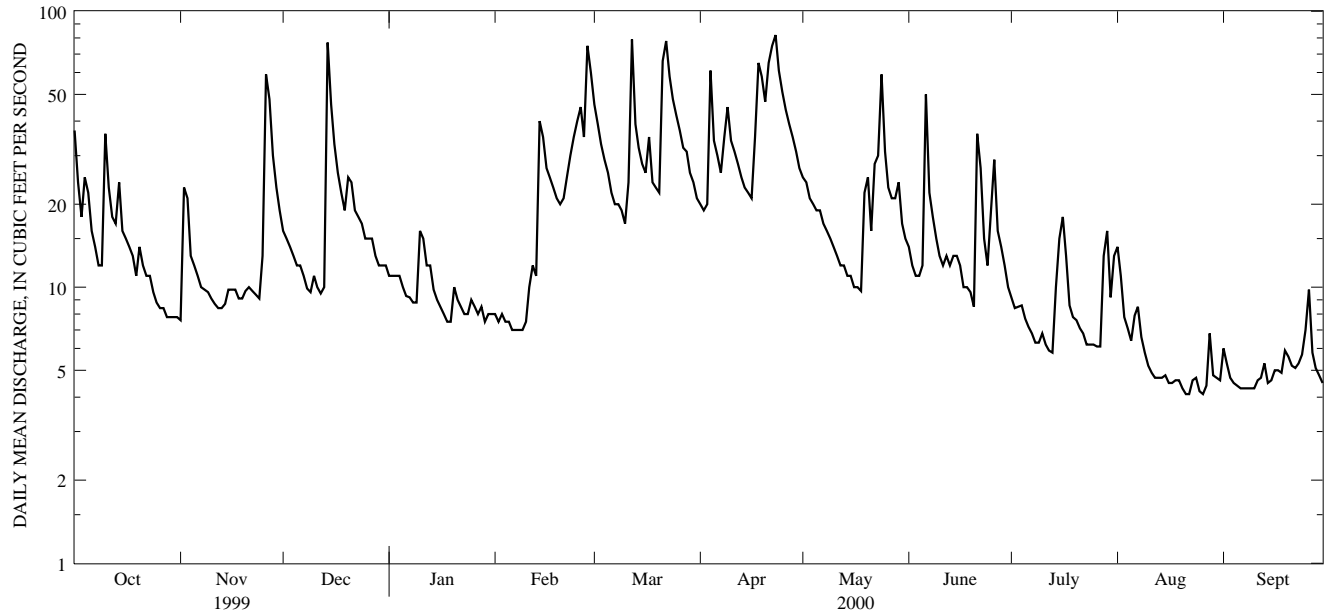
e Estimated.

SHERMAN CREEK BASIN

01567500 BIXLER RUN NEAR LOYSVILLE, PA--Continued

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR			FOR 2000 WATER YEAR			WATER YEARS 1954 - 2000	
ANNUAL TOTAL	5715.5			6411.5				
ANNUAL MEAN	15.7			17.5			19.6	
HIGHEST ANNUAL MEAN							42.6	1972
LOWEST ANNUAL MEAN							7.59	1969
HIGHEST DAILY MEAN	338	Jan 24		82	Apr 23		2120	Jun 22 1972
LOWEST DAILY MEAN	1.6	Jul 21		4.1	Aug 21,22,26		1.6	Jul 21 1999
ANNUAL SEVEN-DAY MINIMUM	2.0	Jul 23		4.3	Aug 20		1.9	Sep 6 1966
INSTANTANEOUS PEAK FLOW				305	Dec 14		a16000	Jun 20 1989
INSTANTANEOUS PEAK STAGE				5.55	Dec 14		b12.90	Jun 20 1989
INSTANTANEOUS LOW FLOW				3.7	Sep 6		1.5	Feb 2 1959
ANNUAL RUNOFF (CFSM)	1.04			1.17			1.31	
ANNUAL RUNOFF (INCHES)	14.17			15.90			17.75	
10 PERCENT EXCEEDS	27			35			39	
50 PERCENT EXCEEDS	11			12			9.6	
90 PERCENT EXCEEDS	3.4			5.0			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.



1-YEAR HYDROGRAPH
 OCTOBER 1, 1999 TO SEPTEMBER 30, 2000