



2004 Water Year SHERMAN CREEK BASIN

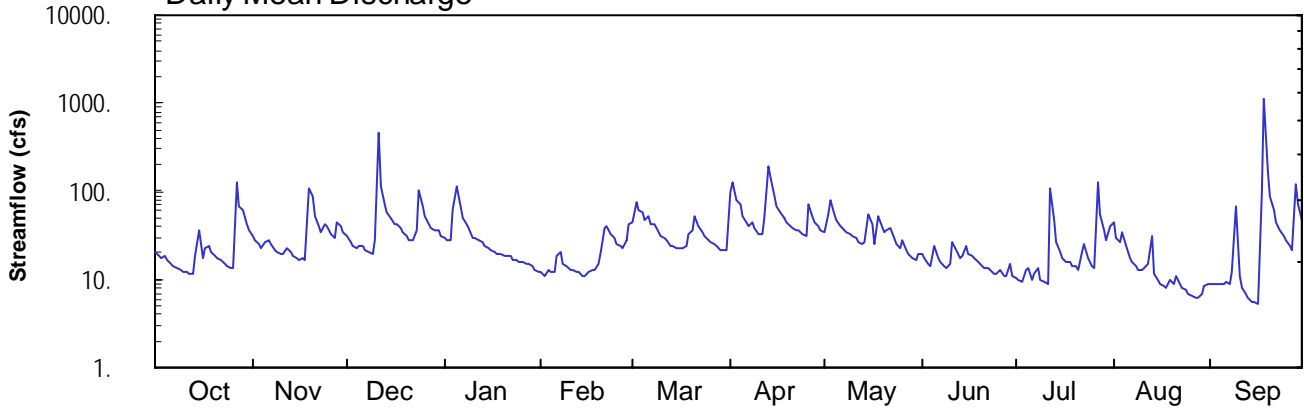
01567500 Bixler Run near Loysville, PA

Latitude: 40° 22 ' 15"
Perry County

Longitude: 077° 24 ' 09"
Datum: 601.22 feet

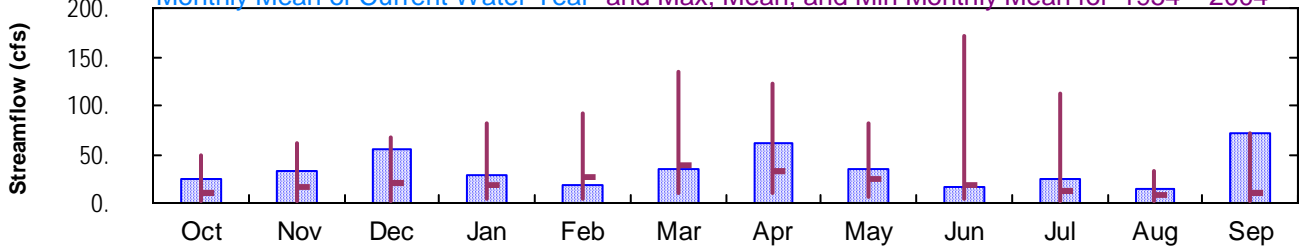
Hydrologic Unit Code: 02050305
Drainage Area: 15. mi²

Daily Mean Discharge

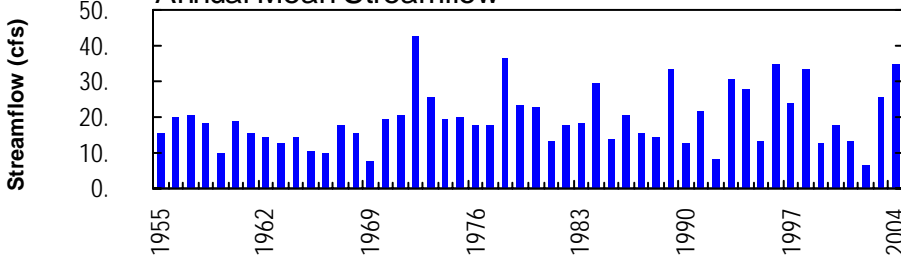


Monthly Statistics

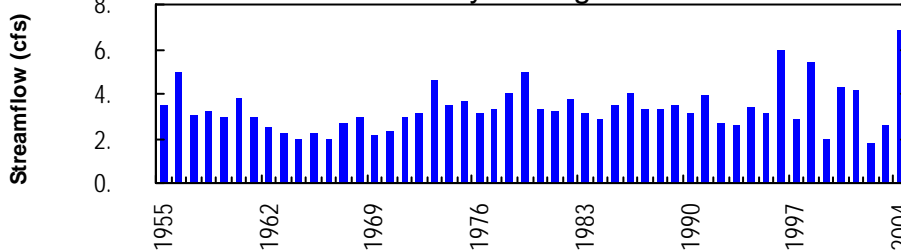
Monthly Mean of Current Water Year and Max, Mean, and Min Monthly Mean for 1954 – 2004



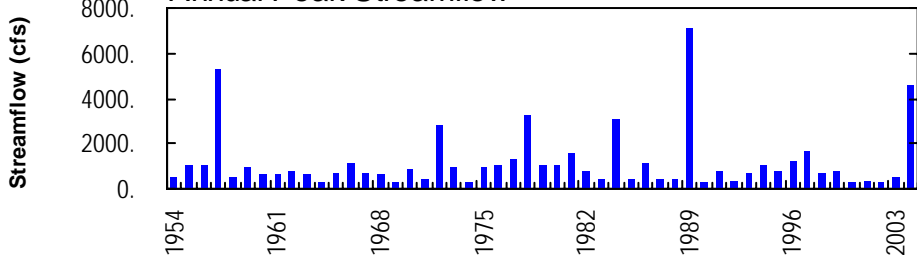
Annual Mean Streamflow



Annual Minimum 7-Day Average Streamflow



Annual Peak Streamflow



01567500-Bixler Run near Loysville

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). 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.--Records fair except those for estimated daily discharges, which are 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)
Oct. 27	1145	322	5.87	July 27	1230	322	5.87
Nov. 19	1545	282	5.65	Sept. 9	0415	279	5.75
Dec. 11	0715	1,390	7.92	Sept. 18	0045	*4,560	*11.00
Apr. 13	2115	294	5.72	Sept. 28	1500	307	6.09
July 12	2045	481	6.46				

**DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES**

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	21	31	31	29	e12	44	e100	34	19	10	44	8.9
2	19	28	27	28	e11	74	126	56	17	10	30	9.1
3	17	26	24	29	e13	62	77	81	15	9.6	26	9.1
4	18	23	23	60	e12	57	72	54	14	13	34	9.0
5	16	27	23	112	e12	48	52	47	24	13	25	8.9
6	15	28	23	69	e18	53	44	40	18	10	18	9.3
7	14	25	22	50	e20	43	40	38	16	11	16	9.1
8	13	22	21	43	e15	41	44	35	14	14	14	12
9	13	20	20	38	e14	35	39	32	13	9.9	13	69
10	12	20	28	e30	e13	31	33	30	15	9.3	13	11
11	12	20	464	e29	e13	29	32	29	26	9.1	13	7.8
12	12	23	116	e28	e12	27	50	27	22	110	15	6.8
13	11	20	70	e27	e12	24	192	26	17	46	31	6.2
14	18	19	59	e24	e11	24	148	27	19	26	12	5.5
15	37	18	51	e23	e11	23	90	54	24	20	9.9	5.4
16	18	17	43	e21	e12	23	67	41	19	17	8.9	5.3
17	22	17	42	e20	e13	23	57	25	18	15	8.3	100
18	24	16	38	e19	e13	24	50	52	18	15	7.9	1140
19	20	109	34	e19	e15	33	45	44	15	14	9.8	161
20	18	86	30	e18	e20	36	41	34	14	14	9.0	88
21	18	51	28	e18	38	53	38	37	13	13	11	60
22	16	40	27	e18	40	40	36	38	13	20	8.9	45
23	15	34	35	e17	32	35	36	30	13	25	7.9	37
24	14	43	100	e17	29	31	33	26	12	17	7.4	31
25	13	40	68	e16	25	28	31	23	12	14	6.9	27
26	13	32	51	e16	23	26	72	28	13	14	6.6	24
27	125	30	43	e15	23	25	52	21	11	124	6.3	22
28	68	46	38	e15	29	23	44	20	11	56	6.2	122
29	61	40	35	e14	42	22	39	18	15	36	6.9	72
30	42	34	37	e13	---	21	36	17	11	28	8.5	46
31	36	---	32	e12	---	---	e22	19	---	41	9.0	---
TOTAL	771	985	1683	887	553	1080	1816	1083	481	783.9	443.4	2167.4
MEAN	24.9	32.8	54.3	28.6	19.1	34.8	60.5	34.9	16.0	25.3	14.3	72.2
MAX	125	109	464	112	42	74	192	81	26	124	44	1140
MIN	11	16	20	12	11	21	31	17	11	9.1	6.2	5.3
CFSM	1.66	2.19	3.62	1.91	1.27	2.32	4.04	2.33	1.07	1.69	0.95	4.82
IN.	1.91	2.44	4.17	2.20	1.37	2.68	4.50	2.69	1.19	1.94	1.10	5.38

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1954 - 2004, BY WATER YEAR (WY)

MEAN	11.0	15.5	19.7	19.3	27.3	39.4	33.2	23.5	17.7	11.7	7.16	9.53
MAX	48.6	61.9	66.8	80.9	91.0	135	122	81.2	172	112	32.3	72.2
(WY)	1977	1957	1997	1996	1984	1994	1993	1978	1972	1989	1955	2004
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

e Estimated.

SHERMAN CREEK BASIN

01567500 BIXLER RUN NEAR LOYSVILLE, PA--Continued

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1954 - 2004	
ANNUAL TOTAL	11209.9		12733.7			
ANNUAL MEAN	30.7		34.8		19.6	
HIGHEST ANNUAL MEAN					42.6	1972
LOWEST ANNUAL MEAN					6.67	2002
HIGHEST DAILY MEAN	464	Dec 11	1140	Sep 18	2120	Jun 22 1972
LOWEST DAILY MEAN	6.6	Feb 16	5.3	Sep 16	1.6	Jul 21 1999
ANNUAL SEVEN-DAY MINIMUM	7.5	Jul 25	6.9	Sep 10	1.7	Sep 5 2002
MAXIMUM PEAK FLOW			a4560	Sep 18	a7100	Jun 20 1989
MAXIMUM PEAK STAGE			11.00	Sep 18	b12.90	Jun 20 1989
INSTANTANEOUS LOW FLOW			5.2	Sep 16	1.5	Feb 2 1959
ANNUAL RUNOFF (CFSM)	2.05		2.32		1.31	
ANNUAL RUNOFF (INCHES)	27.80		31.58		17.79	
10 PERCENT EXCEEDS	60		58		40	
50 PERCENT EXCEEDS	22		23		9.8	
90 PERCENT EXCEEDS	9.6		11		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.