

## PINE CREEK BASIN

## 03049800 LITTLE PINE CREEK NEAR ETNA, PA

**LOCATION.**--Lat 40°31'13", long 79°56'18", Allegheny County, Hydrologic Unit 05010009, on right bank at downstream side of highway bridge on Saxonburg Boulevard, 0.7 mi upstream from mouth, and 1.5 mi northeast of Etna.

**DRAINAGE AREA.**--5.78 mi<sup>2</sup>.

**PERIOD OF RECORD.**--October 1962 to current year.

**GAGE.**--Water-stage recorder and crest-stage gage. Datum of gage is 774.26 ft above National Geodetic Vertical Datum of 1929. Prior to Oct. 1, 1986 at datum 3.00 ft higher. Sept. 30, 1987 datum lowered 1.00 ft.

**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 150 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)
Jan. 1	1130	213	3.78	July 23	0930	*216	*3.79

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	0.63	2.5	1.6	55	e1.4	8.1	3.8	2.6	3.4	1.9	1.9	6.4
2	0.52	2.1	1.4	26	e1.4	12	3.6	2.6	2.5	1.6	1.5	4.8
3	3.0	1.8	e1.3	19	e2.0	10	3.5	2.3	6.2	1.5	1.5	6.6
4	2.2	1.7	e1.3	13	e34	12	4.8	2.3	5.7	3.5	1.6	4.2
5	1.6	2.4	e1.3	8.5	12	15	16	5.2	4.3	2.5	1.4	2.3
6	0.79	4.9	e1.3	6.4	9.1	14	9.4	3.2	3.4	1.8	1.2	1.8
7	0.63	2.8	e1.3	4.8	5.3	12	16	5.7	11	2.0	2.4	1.5
8	0.61	2.4	e1.3	e4.8	6.8	15	15	4.6	7.3	3.0	1.9	1.2
9	0.47	2.2	e1.3	e4.8	8.5	28	12	17	7.2	2.4	3.5	1.1
10	0.48	2.6	e1.3	e4.4	4.2	16	9.1	22	4.6	3.6	2.2	0.96
11	0.66	9.8	e1.3	e3.9	e4.0	13	12	e14	4.2	3.3	1.7	0.88
12	0.60	3.6	e1.2	e3.7	e3.1	11	8.8	e10	16	2.0	1.2	0.78
13	1.4	2.6	e3.8	e7.5	e3.6	16	6.9	e7.0	32	1.5	1.0	0.81
14	0.62	2.4	e19	e3.4	e3.4	14	5.7	e5.0	11	1.3	0.95	0.86
15	0.53	2.2	13	e2.5	e2.8	12	5.2	e4.6	6.8	1.3	0.86	2.4
16	12	4.2	6.4	e1.6	e2.6	11	5.0	4.2	4.7	1.5	1.4	1.2
17	3.6	12	3.1	e1.4	e2.4	11	4.4	3.5	6.3	1.1	2.0	0.83
18	2.2	5.4	2.4	e1.4	e2.6	9.8	3.8	3.3	9.0	1.2	0.95	0.79
19	3.0	6.2	3.2	e1.3	e2.7	8.3	3.7	2.9	5.7	1.1	0.77	6.9
20	2.2	5.0	12	e1.3	e2.6	8.9	3.6	5.0	13	0.98	0.77	2.2
21	1.5	4.0	5.2	e1.3	e2.8	8.1	5.1	7.8	22	1.2	0.75	1.5
22	1.1	3.8	4.0	e1.3	e13	7.1	3.5	4.2	10	18	0.68	2.2
23	0.92	3.1	3.0	e1.4	53	5.6	3.2	4.7	6.5	48	0.70	2.1
24	0.81	2.6	2.4	e1.3	18	5.1	3.1	6.1	4.5	20	0.63	1.4
25	3.1	2.3	3.3	e1.4	10	4.8	3.1	4.0	3.6	5.8	0.62	2.8
26	7.2	2.1	2.2	e1.4	11	4.5	3.2	3.6	3.1	3.3	0.99	1.8
27	2.5	2.1	1.8	e1.4	6.6	4.0	2.7	3.1	2.6	3.1	3.4	2.4
28	1.8	1.8	1.6	e1.4	6.8	3.8	2.6	3.7	2.4	3.3	1.2	1.9
29	3.8	2.1	1.5	e1.4	---	4.3	2.9	2.9	2.1	2.0	0.89	1.4
30	5.7	2.1	1.5	e1.4	---	3.8	2.5	2.6	1.8	1.7	18	1.3
31	3.5	---	7.2	e1.4	---	3.7	---	4.4	---	1.8	3.2	---
TOTAL	69.67	104.8	112.5	189.8	235.7	311.9	184.2	174.1	222.9	147.28	61.76	67.31
MEAN	2.25	3.49	3.63	6.12	8.42	10.1	6.14	5.62	7.43	4.75	1.99	2.24
MAX	12	12	19	55	53	28	16	22	32	48	18	6.9
MIN	0.47	1.7	1.2	1.3	1.4	3.7	2.5	2.3	1.8	0.98	0.62	0.78
CFSM	0.39	0.60	0.63	1.06	1.46	1.74	1.06	0.97	1.29	0.82	0.34	0.39
IN.	0.45	0.67	0.72	1.22	1.52	2.01	1.19	1.12	1.43	0.95	0.40	0.43

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1963 - 2003, BY WATER YEAR (WY)

MEAN	1.92	4.70	7.54	7.29	9.44	13.0	10.3	8.07	4.22	3.19	1.61	1.52
MAX	8.55	25.4	26.4	22.4	21.0	32.4	23.8	26.1	17.8	26.4	6.92	10.4
(WY)	1980	1986	1987	1965	1966	1994	1987	1968	1972	1990	1980	1990
MIN	0.010	0.51	0.69	0.82	2.17	1.30	2.33	1.74	0.42	0.016	0.10	0.040
(WY)	1964	1964	1964	1977	1980	1969	1971	1965	1965	1965	1965	1963

e Estimated.

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## 03049800 LITTLE PINE CREEK NEAR ETNA, PA--Continued

SUMMARY STATISTICS	FOR 2002 CALENDAR YEAR		FOR 2003 WATER YEAR		WATER YEARS 1963 - 2003	
ANNUAL TOTAL	1555.85		1881.92			
ANNUAL MEAN	4.26		5.16		6.05	
HIGHEST ANNUAL MEAN					10.8	1987
LOWEST ANNUAL MEAN					2.68	1969
HIGHEST DAILY MEAN	73	Mar 26	55	Jan 1	525	May 30 1986
LOWEST DAILY MEAN	0.05	Sep 13,14	0.47	Oct 9	0.00	Many days
ANNUAL SEVEN-DAY MINIMUM	0.08	Sep 8	0.61	Oct 6	0.00	Aug 26 1963
MAXIMUM PEAK FLOW			216	Jul 23	<b>a</b> 7190	May 30 1986
MAXIMUM PEAK STAGE			3.79	Jul 23	<b>b</b> 10.28	May 30 1986
ANNUAL RUNOFF (CFSM)	0.74		0.89		1.05	
ANNUAL RUNOFF (INCHES)	10.01		12.11		14.23	
10 PERCENT EXCEEDS	8.8		12		14	
50 PERCENT EXCEEDS	2.5		3.1		2.7	
90 PERCENT EXCEEDS	0.48		1.1		0.33	

- a** From rating curve extended above 2,000 ft<sup>3</sup>/s on basis of slope-area measurement of peak flow at site 0.6 mi downstream.  
**b** Gage height 10.41 ft, from outside floodmark, datum then in use.

