



2004 Water Year
PINE CREEK BASIN

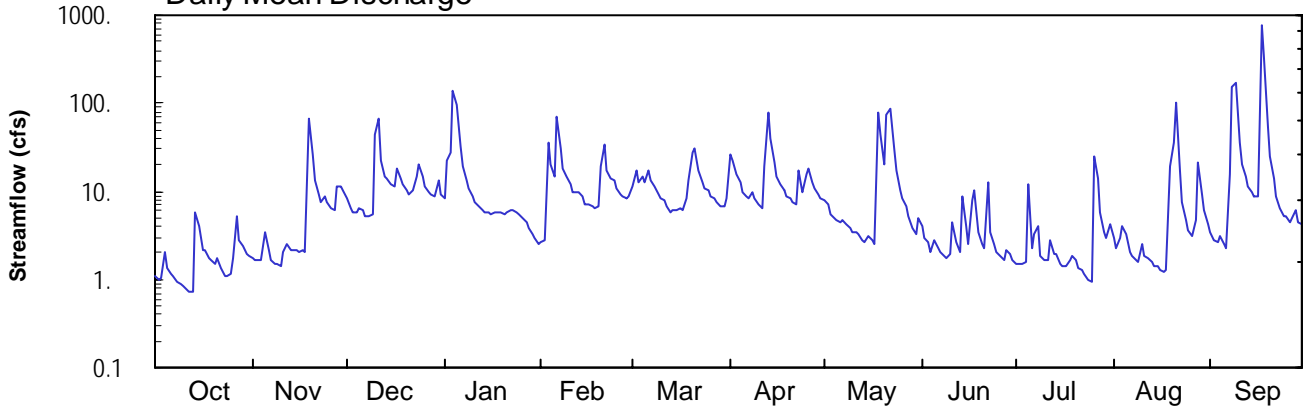
03049800 Little Pine Creek near Etna, PA

Latitude: 40° 31' 13"
Allegheny County

Longitude: 079° 56' 18"
Datum: 774.26 feet

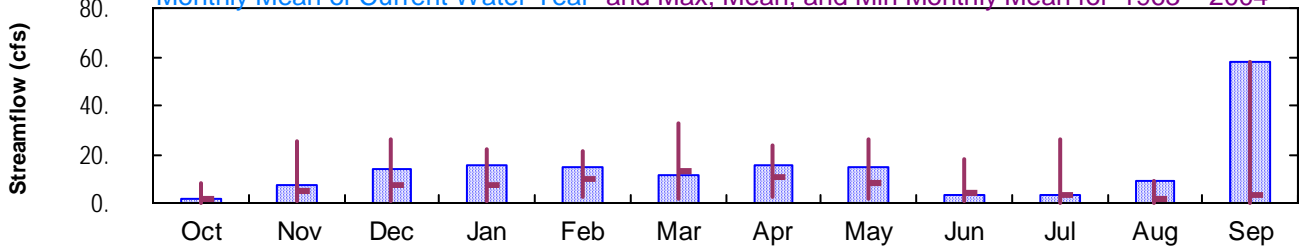
Hydrologic Unit Code: 05010009
Drainage Area: 5.78 mi²

Daily Mean Discharge

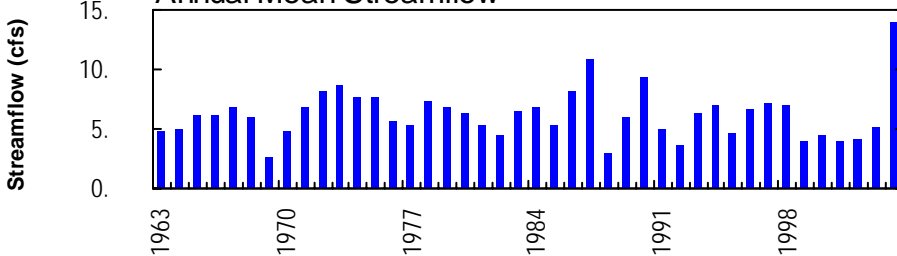


Monthly Statistics

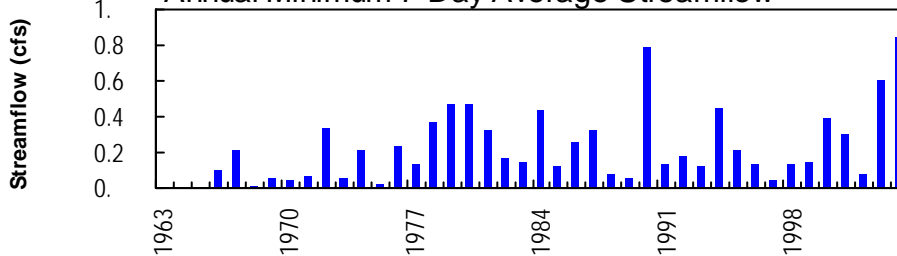
Monthly Mean of Current Water Year and Max, Mean, and Min Monthly Mean for 1963 – 2004



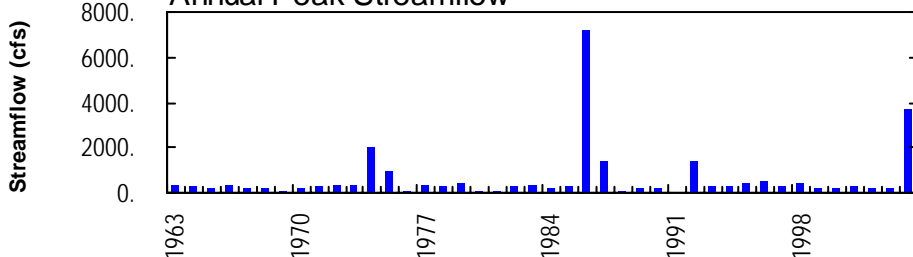
Annual Mean Streamflow



Annual Minimum 7-Day Average Streamflow



Annual Peak Streamflow



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 mi².

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 ft³/s and maximum (*):

Date	Time	Discharge ft ³ /s	Gage Height (ft)	Date	Time	Discharge ft ³ /s	Gage Height (ft)
Nov. 19	1415	167	3.64	May 22	0545	268	3.92
Dec. 10	2215	314	4.06	Aug. 21	0645	475	4.39
Jan. 4	1045	340	4.09	Aug. 28	1300	153	3.58
Apr. 13	1400	268	3.92	Sept. 8	2030	525	4.50
May 18	1545	498	4.44	Sept. 9	0445	435	4.30
May 21	0700	309	4.02	Sept. 17	1800	*3,700	*8.26

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	1.1	1.7	8.5	8.5	e2.6	11	27	7.9	4.1	1.5	2.9	3.4
2	1.0	1.7	6.4	22	e2.8	18	22	7.0	2.9	1.5	2.2	2.9
3	1.1	1.6	5.7	27	e35	13	16	5.4	2.7	1.5	3.0	2.6
4	2.0	1.7	5.7	140	e20	15	13	5.0	2.1	1.6	3.9	3.0
5	1.3	3.5	6.5	99	e15	13	9.7	4.8	2.8	12	3.3	2.5
6	1.2	2.1	6.2	32	e70	17	8.7	4.4	2.3	2.2	2.0	2.2
7	1.1	1.6	5.3	19	e30	13	8.4	4.8	2.0	3.3	1.8	16
8	0.94	1.5	5.3	13	18	11	9.5	4.3	1.8	3.9	1.7	157
9	0.89	1.5	5.5	11	15	9.5	8.4	3.9	1.7	1.8	1.6	172
10	0.83	1.4	43	e8.7	12	8.3	7.0	3.5	1.9	1.7	2.5	35
11	0.77	2.0	68	e7.5	10	8.0	6.4	3.5	4.5	1.7	1.8	21
12	0.73	2.5	22	e6.6	9.9	6.8	19	3.3	2.6	2.9	1.8	15
13	0.71	2.1	15	e6.2	9.5	5.8	79	2.8	2.0	2.0	1.6	11
14	5.7	2.2	14	e5.8	8.9	6.2	40	2.6	8.6	1.9	1.4	9.9
15	4.0	2.1	12	e5.6	7.2	5.9	21	3.0	3.9	1.5	1.4	9.0
16	2.2	2.1	12	e5.6	e7.0	6.3	15	2.8	2.5	1.4	1.3	8.8
17	2.1	2.1	18	e5.8	e6.8	6.1	12	2.5	8.0	1.4	1.2	e769
18	1.8	2.0	14	e5.8	e6.6	8.2	10	77	10	1.7	1.3	352
19	1.6	67	12	e5.7	e6.8	13	8.9	43	3.4	1.8	19	55
20	1.5	26	10	e5.6	19	28	8.4	21	2.5	1.6	37	25
21	1.7	13	9.3	e5.8	34	31	7.3	74	2.2	1.3	104	14
22	1.4	9.2	10	e6.0	17	17	7.1	85	13	1.3	17	8.9
23	1.1	7.4	15	e6.1	14	12	17	30	3.5	1.2	7.6	6.4
24	1.1	9.0	20	e5.9	13	11	9.5	17	2.5	0.97	4.7	5.2
25	1.2	7.5	15	e5.6	11	10	15	10	2.0	0.94	3.5	5.1
26	1.7	6.6	12	e5.0	9.2	8.7	18	8.3	1.9	25	3.2	4.5
27	5.3	6.2	9.9	e4.4	8.6	8.4	13	6.7	1.6	14	4.7	4.9
28	2.8	11	9.1	e3.8	8.5	7.4	11	5.2	2.2	5.8	22	6.2
29	2.3	12	8.9	e3.3	8.9	6.7	9.3	3.8	1.9	3.4	9.1	4.5
30	1.9	10	13	e2.9	---	6.8	8.3	3.3	1.6	2.9	6.2	4.2
31	1.8	---	9.4	e2.5	---	8.3	---	4.9	---	4.3	4.2	---
TOTAL	54.87	220.3	426.7	491.7	436.3	350.4	464.9	460.7	104.7	110.01	278.9	1736.2
MEAN	1.77	7.34	13.8	15.9	15.0	11.3	15.5	14.9	3.49	3.55	9.00	57.9
MAX	5.7	67	68	140	70	31	79	85	13	25	104	769
MIN	0.71	1.4	5.3	2.5	2.6	5.8	6.4	2.5	1.6	0.94	1.2	2.2
CFSM	0.31	1.27	2.38	2.74	2.60	1.96	2.68	2.57	0.60	0.61	1.56	10.0
IN.	0.35	1.42	2.75	3.16	2.81	2.26	2.99	2.97	0.67	0.71	1.79	11.17

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1963 - 2004, BY WATER YEAR (WY)

MEAN	1.91	4.77	7.69	7.49	9.58	12.9	10.5	8.23	4.20	3.20	1.79	2.86
MAX	8.55	25.4	26.4	22.4	21.0	32.4	23.8	26.1	17.8	26.4	9.00	57.9
(WY)	1980	1986	1987	1965	1966	1994	1987	1968	1972	1990	2004	2004
MIN	0.01	0.51	0.69	0.82	2.17	1.30	2.33	1.74	0.42	0.02	0.10	0.04
(WY)	1964	1964	1964	1977	1980	1969	1971	1965	1965	1965	1965	1963

e Estimated.

PINE CREEK BASIN

03049800 LITTLE PINE CREEK NEAR ETNA, PA--Continued

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1963 - 2004	
ANNUAL TOTAL	2296.82		5135.68			
ANNUAL MEAN	6.29		14.0		6.24	
HIGHEST ANNUAL MEAN					14.0	2004
LOWEST ANNUAL MEAN					2.68	1969
HIGHEST DAILY MEAN	68	Dec 11	e769	Sep 17	e769	Sep 17 2004
LOWEST DAILY MEAN	0.62	Aug 25	0.71	Oct 13	0.00	Many days
ANNUAL SEVEN-DAY MINIMUM	0.70	Aug 19	0.85	Oct 7	0.00	Aug 26 1963
MAXIMUM PEAK FLOW			a3700	Sep 17	a7190	May 30 1986
MAXIMUM PEAK STAGE			8.26	Sep 17	b10.28	May 30 1986
ANNUAL RUNOFF (CFSM)	1.09		2.43		1.08	
ANNUAL RUNOFF (INCHES)	14.78		33.05		14.68	
10 PERCENT EXCEEDS	14		21		15	
50 PERCENT EXCEEDS	3.5		6.1		2.7	
90 PERCENT EXCEEDS	1.2		1.6		0.33	

- a From rating curve extended above 2,000 ft³/s on basis of slope-area measurement at gage height 8.26 ft, and 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.
- e Estimated.