

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 775.26 ft above sea level.

REMARKS.--Records fair except those for estimated daily discharges, which are poor. Several measurements of water temperature were made during the year.

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)
Apr. 9	1100	153	3.51	July 28	1300	*174	a3.58

a Maximum gage height, 4.32 ft, Jan. 15 (backwater from ice)..

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	e.13	e.39	.40	e.16	6.7	18	1.0	3.2	1.7	.66	3.9	.34
2	e.13	e.39	.32	e.14	22	13	.96	2.5	8.1	7.5	.94	.33
3	e.30	e.39	.32	e.16	12	17	.97	2.3	3.2	1.2	.56	.31
4	e1.0	e.39	.32	e.18	10	18	4.1	2.3	2.1	.81	.43	.31
5	e2.5	e.39	.32	e.18	8.3	13	4.8	2.0	1.9	.60	.41	.32
6	e.50	e.39	.31	e.15	7.7	46	3.5	1.6	1.7	.64	.35	.31
7	e.90	e.39	.42	e.17	18	33	2.6	1.4	1.7	.68	.33	.35
8	e1.1	e.39	.36	e.19	25	21	2.5	2.8	2.0	.43	1.0	.43
9	e1.0	e.50	.31	e.24	14	15	59	1.6	2.5	.99	.45	.44
10	e.70	e.90	.26	e.56	11	11	43	1.2	2.3	1.8	.37	.43
11	e.54	e1.1	.26	e.40	8.5	11	24	1.1	1.1	.63	.36	.38
12	e.46	e.90	.25	e.37	8.2	9.4	16	1.1	.52	.52	.29	.34
13	e.40	e.70	.25	e.40	7.0	8.3	11	1.7	.48	.40	.68	.30
14	e.36	e.45	.25	e.88	6.0	7.9	8.1	1.9	.80	.34	.48	.28
15	e.33	e.34	.23	e1.6	5.6	8.1	9.5	1.1	.70	.31	.27	.18
16	e.35	e.30	.24	e1.9	5.2	8.1	13	.90	.51	.27	.22	.26
17	e.45	e.38	.33	e1.6	4.8	11	9.9	.82	.51	.25	.21	.35
18	e.60	.33	.30	e1.9	4.0	12	7.8	9.6	.47	.22	.16	.31
19	e.93	.36	.26	e3.0	3.2	9.3	5.8	20	.44	.21	.15	.28
20	e.84	1.2	.33	e4.5	2.6	7.8	12	4.1	.41	.21	.15	.71
21	e.74	.50	4.6	e5.4	2.2	7.5	9.8	2.3	.39	.17	.26	1.8
22	e.70	.31	17	e5.2	2.0	6.1	47	3.3	.40	.23	.37	.70
23	e.62	.31	e2.1	e35	2.1	3.8	31	2.6	.38	.18	.19	.65
24	e.54	.32	e.75	50	1.7	3.0	19	21	.34	.15	1.0	.48
25	e.43	.33	e.25	20	2.2	2.4	13	13	.33	.11	2.2	.21
26	e.39	2.2	e.18	14	2.0	2.5	9.6	7.1	.33	.09	1.4	.19
27	e.39	.57	e.20	11	2.3	2.2	6.8	4.4	1.2	.08	.70	.17
28	e.39	.50	e.22	9.4	30	1.8	5.1	2.9	.91	16	.50	.16
29	e.39	.45	e.22	7.0	---	1.3	4.7	2.2	4.6	13	.41	1.4
30	e.39	.42	e.18	4.8	---	1.2	3.7	1.7	.88	1.3	.35	3.2
31	e.39	---	e.16	3.3	---	.95	---	1.6	---	.72	.33	---
TOTAL	18.89	16.49	31.90	183.78	234.3	330.65	389.23	125.32	42.90	50.70	19.42	15.92
MEAN	.61	.55	1.03	5.93	8.37	10.7	13.0	4.04	1.43	1.64	.63	.53
MAX	2.5	2.2	.17	.50	.30	.46	.59	.21	8.1	.16	3.9	3.2
MIN	.13	.30	.16	.14	1.7	.95	.96	.82	.33	.08	.15	.16
CFSM	.11	.10	.18	1.03	1.45	1.85	2.24	.70	.25	.28	.11	.09
IN.	.12	.11	.21	1.18	1.51	2.13	2.51	.81	.28	.33	.12	.10

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1963 - 1999, BY WATER YEAR (WY)

MEAN	1.95	4.99	7.86	7.61	9.64	13.3	10.5	8.35	4.19	3.28	1.60	1.54
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	.010	.51	.69	.82	2.17	1.30	2.33	1.74	.42	.016	.10	.040
(WY)	1964	1964	1964	1977	1980	1969	1971	1965	1965	1965	1965	1963

e Estimated.

PINE CREEK BASIN

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SUMMARY STATISTICS	FOR 1998 CALENDAR YEAR		FOR 1999 WATER YEAR		WATER YEARS 1963 - 1999	
ANNUAL TOTAL	1896.82		1459.50			
ANNUAL MEAN	5.20		4.00		6.23	
HIGHEST ANNUAL MEAN					10.8	1987
LOWEST ANNUAL MEAN					2.68	1969
HIGHEST DAILY MEAN	116	Jan 8	59	Apr 9	525	May 30 1986
LOWEST DAILY MEAN	e.10	Aug 23	.08	Jul 27	.00	Jul 13 1963
ANNUAL SEVEN-DAY MINIMUM	b.13	Aug 17	.14	Jul 21	.00	Aug 26 1963
INSTANTANEOUS PEAK FLOW			174	Jul 28	c7190	May 30 1986
INSTANTANEOUS PEAK STAGE			a3.58	Jul 28	d10.28	May 30 1986
INSTANTANEOUS LOW FLOW			.06	Jul 28	.00	Aug 30 1991
ANNUAL RUNOFF (CFSM)	.90		.69		1.08	
ANNUAL RUNOFF (INCHES)	12.21		9.39		14.63	
10 PERCENT EXCEEDS	14		11		15	
50 PERCENT EXCEEDS	.90		.84		2.7	
90 PERCENT EXCEEDS	.18		.23		.30	

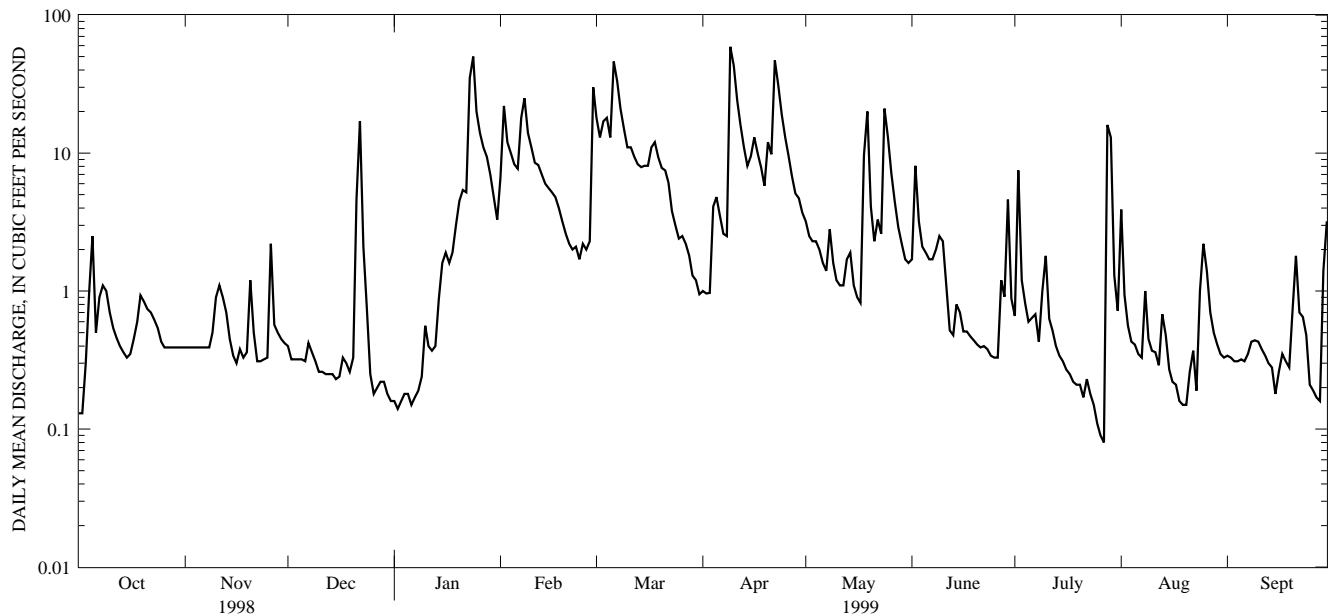
a Maximum gage height, 4.32 ft, Jan. 15 (backwater from ice).

b Computed using estimated daily discharges.

c 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.

d 10.41 ft, from outside floodmark.

e Estimated.



1-YEAR HYDROGRAPH  
OCTOBER 1, 1998 TO SEPTEMBER 30, 1999