

**FRENCH CREEK BASIN**

**03021350 FRENCH CREEK NEAR WATTSBURG, PA**

**LOCATION.**--Lat 42°00'55", long 79°46'58", Erie County, Hydrologic Unit 05010004, on right bank at downstream side of bridge on Tanner Road, 1,200 ft east of State Highway 74, 1.1 mi west of Pennsylvania-New York border, 1.5 mi northeast of Wattsburg, and 2.4 mi above confluence with West Branch French Creek.

**DRAINAGE AREA.**--92.0 mi<sup>2</sup>.

**PERIOD OF RECORD.**--October 1974 to current year.

**GAGE.**--Water-stage recorder. Datum of gage is 1,304.84 ft above sea level (U.S. Army Corps of Engineers benchmark).

**REMARKS.**--Records good except those for estimated daily discharges, which are poor. Several measurements of water temperature were made during the year. U.S. Army Corps of Engineers satellite telemetry at station.

**PEAK DISCHARGES FOR CURRENT YEAR.**--Peak discharges greater than a base discharge of 2,500 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)
Nov. 3	1500	*3,370	*8.82	No other peak greater than base discharge.			

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	110	46	145	e78	e38	269	107	61	38	28	1070	15
2	40	516	131	e94	e36	354	106	167	41	23	528	14
3	23	2960	143	e350	e36	227	227	116	40	40	736	14
4	28	1290	213	1860	e36	188	1160	82	32	56	297	13
5	46	750	232	864	e35	153	738	76	32	36	132	12
6	30	1020	399	367	e34	126	395	65	101	27	132	12
7	19	446	312	270	e33	110	260	59	105	22	344	10
8	14	253	208	211	e33	105	1540	58	56	20	199	9.6
9	25	191	161	190	e34	97	1470	53	39	42	146	9.3
10	40	152	279	297	e37	90	566	56	32	273	497	10
11	29	194	387	536	e44	82	365	79	27	85	176	13
12	21	162	220	331	e56	110	345	60	181	45	205	15
13	24	127	198	239	e100	111	245	52	72	33	129	21
14	303	110	540	173	e190	136	186	50	51	26	76	17
15	182	95	969	e130	e170	178	151	42	50	32	58	38
16	93	85	457	e100	e150	163	129	37	41	37	53	59
17	64	75	277	e86	e130	227	116	35	39	34	46	42
18	60	67	203	e80	e120	171	111	145	106	24	39	27
19	58	65	158	e74	e100	175	102	1810	140	20	34	21
20	50	86	173	e70	e90	147	170	709	60	17	30	18
21	44	111	212	e64	e80	122	711	271	52	17	25	120
22	41	91	152	e60	e72	97	394	173	69	17	23	75
23	127	79	127	e56	e120	83	252	131	44	15	76	111
24	611	78	99	e54	e500	75	180	180	55	12	56	229
25	262	81	e90	e52	2310	73	132	170	168	11	32	93
26	132	415	e80	e48	1330	67	105	101	100	9.8	25	55
27	84	958	e74	e47	774	65	91	69	65	9.0	23	39
28	64	349	e70	e45	492	78	77	59	50	17	21	31
29	56	206	e68	e41	282	98	68	52	37	51	19	26
30	52	176	e66	e40	---	165	61	44	33	120	18	23
31	49	---	e68	e39	---	160	---	38	---	636	16	---
TOTAL	2781	11234	6911	6946	7462	4302	10560	5100	1956	1834.8	5261	1191.9
MEAN	89.7	374	223	224	257	139	352	165	65.2	59.2	170	39.7
MAX	611	2960	969	1860	2310	354	1540	1810	181	636	1070	229
MIN	14	46	66	39	33	65	61	35	27	9.0	16	9.3
CFSM	.98	4.07	2.42	2.44	2.80	1.51	3.83	1.79	.71	.64	1.84	.43
IN.	1.12	4.54	2.79	2.81	3.02	1.74	4.27	2.06	.79	.74	2.13	.48

**STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1975 - 2000, BY WATER YEAR (WY)**

MEAN	160	312	303	261	311	427	326	148	121	67.3	81.6	118
MAX	375	669	547	624	792	779	627	409	477	334	272	563
(WY)	1982	1986	1978	1998	1976	1979	1994	1984	1986	1986	1977	1977
MIN	13.3	31.0	81.2	79.3	75.9	139	157	38.2	14.6	6.58	5.93	4.84
(WY)	1992	1992	1990	1977	1987	2000	1976	1985	1991	1999	1991	1995

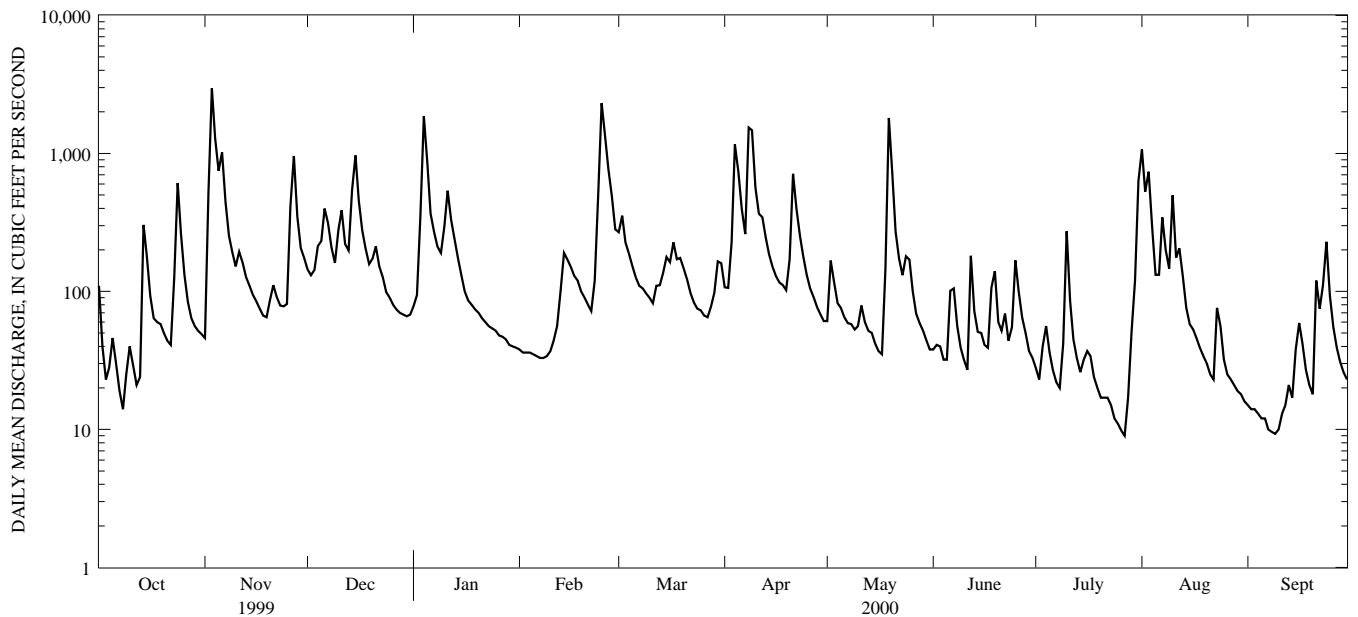
e Estimated.

FRENCH CREEK BASIN

03021350 FRENCH CREEK NEAR WATTSBURG, PA--Continued

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1975 - 2000	
ANNUAL TOTAL	65375.8		65539.7			
ANNUAL MEAN	179		179		219	
HIGHEST ANNUAL MEAN					289	
LOWEST ANNUAL MEAN					136	
HIGHEST DAILY MEAN	3340	Jan 24	2960	Nov 3	e4900	Jan 19 1996
LOWEST DAILY MEAN	1.7	Aug 18,19	9.0	Jul 27	1.7	Aug 18,19 1999
ANNUAL SEVEN-DAY MINIMUM	2.4	Aug 14	11	Sep 4	2.4	Aug 14 1999
INSTANTANEOUS PEAK FLOW			3370	Nov 3	a6350	Sep 14 1979
INSTANTANEOUS PEAK STAGE			8.82	Nov 3	11.95	Sep 14 1979
INSTANTANEOUS LOW FLOW			8.2	Jul 27,28	1.5	Jul 31 1999b
ANNUAL RUNOFF (CFSM)	1.95		1.95		2.38	
ANNUAL RUNOFF (INCHES)	26.43		26.50		32.34	
10 PERCENT EXCEEDS	450		389		523	
50 PERCENT EXCEEDS	71		80		103	
90 PERCENT EXCEEDS	5.3		23		17	

a From rating curve extended above 4,400 ft<sup>3</sup>/s.  
 b Also Aug. 18, 19, 1999.  
 e Estimated.



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