



2005 Water Year  
FRENCH CREEK BASIN  
03021350 French Creek near Wattsburg, PA

Latitude: 42° 00 ' 55"

Longitude: 079° 46 ' 58"

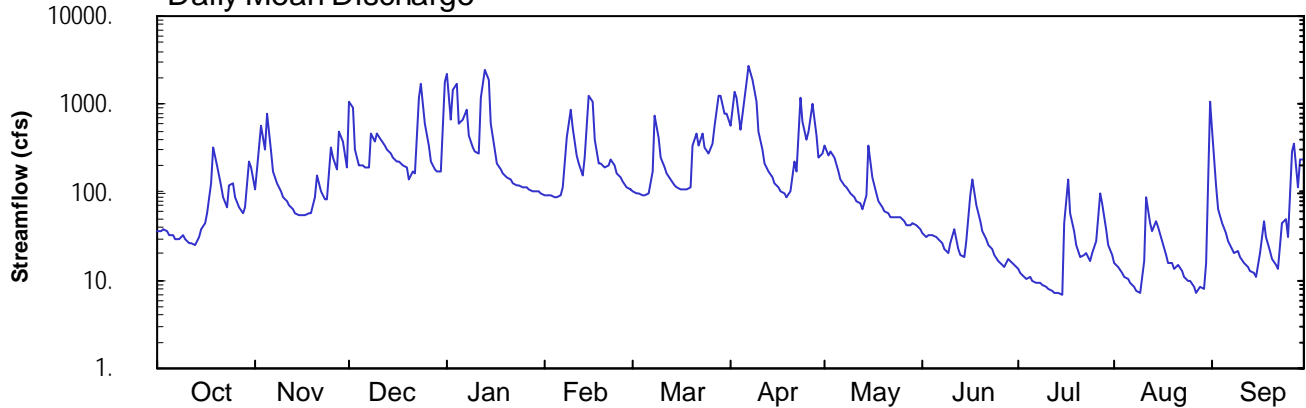
Hydrologic Unit Code: 05010004

Erie County

Datum: 1304.84 feet

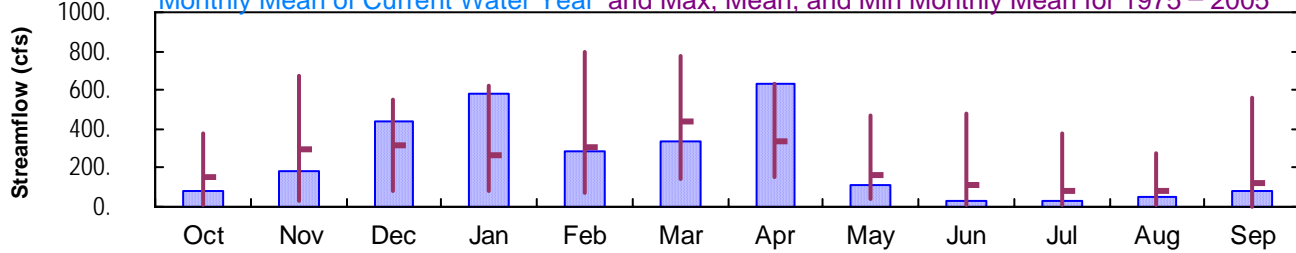
Drainage Area: 92. mi<sup>2</sup>

### Daily Mean Discharge

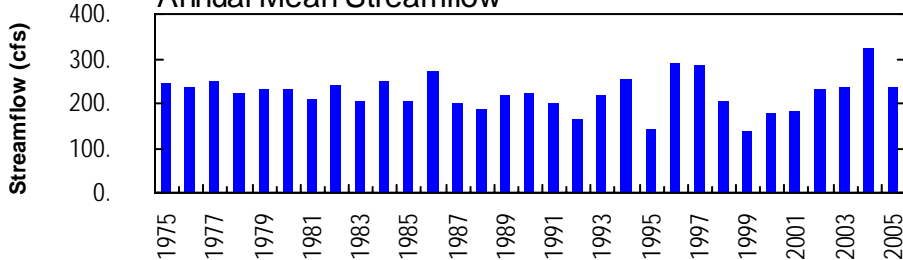


### Monthly Statistics

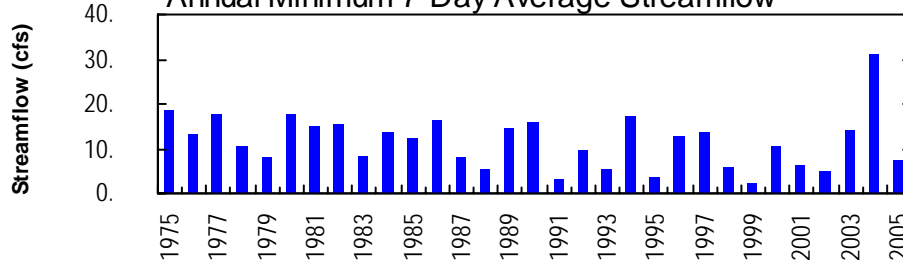
Monthly Mean of Current Water Year and Max, Mean, and Min Monthly Mean for 1975 – 2005



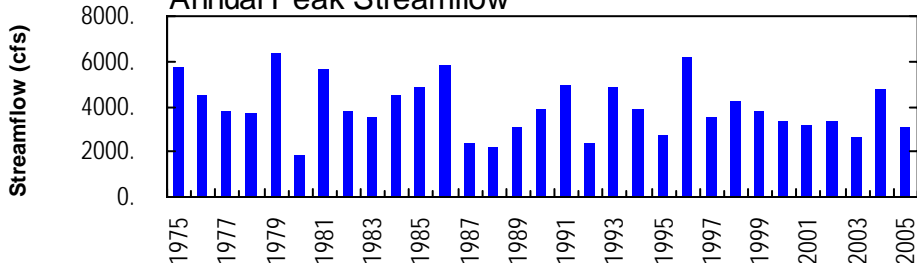
### Annual Mean Streamflow



### Annual Minimum 7-Day Average Streamflow



### Annual Peak Streamflow



NO PHOTOS AVAILABLE FOR THIS SITE

## 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 474, 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 National Geodetic Vertical Datum of 1929 (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)
Jan. 1	0300	*3,080	*8.51	Apr. 7	0800	2,960	8.38
Jan. 13	0700	2,860	8.28				

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	36	106	1090	2200	e95	e101	582	347	34	13	16	522
2	35	178	897	679	e93	e97	1370	258	31	12	14	123
3	38	581	307	1440	e92	e95	1170	289	33	11	12	63
4	36	303	203	1710	e89	e94	506	252	34	10	11	44
5	33	767	203	603	e86	e93	773	175	31	11	10	34
6	32	295	189	678	e93	e96	1800	141	29	10	9.2	27
7	30	170	193	888	e114	e176	2690	121	27	9.6	8.4	23
8	30	125	458	430	e414	745	1860	114	23	9.6	7.7	20
9	33	101	376	316	848	410	1040	98	20	9.0	7.2	22
10	30	88	458	297	533	252	484	88	27	8.5	17	18
11	27	79	391	281	267	195	311	81	38	7.9	87	16
12	26	72	333	1160	211	161	218	73	22	7.5	45	14
13	26	65	305	2510	157	137	174	66	20	7.1	36	13
14	31	58	271	1940	254	119	148	93	18	7.3	46	12
15	39	56	252	608	1240	115	127	331	28	6.8	39	11
16	45	56	229	302	1040	109	113	148	94	45	28	21
17	59	56	223	211	407	106	102	99	138	137	20	46
18	124	58	199	e182	215	109	95	80	70	58	16	31
19	315	58	192	e164	211	113	90	68	46	37	16	21
20	204	87	138	e150	190	347	104	61	36	25	13	17
21	119	152	171	e138	204	456	227	57	30	18	15	15
22	88	104	167	e128	235	336	169	52	26	20	13	14
23	69	82	1160	e121	197	474	1180	51	22	21	11	44
24	119	85	1710	e118	166	322	642	53	19	17	9.7	48
25	127	315	593	e115	149	271	403	52	17	21	9.8	32
26	87	253	347	e112	e131	367	477	47	15	27	8.3	289
27	69	178	228	e109	e116	575	1000	43	14	96	7.4	353
28	58	493	179	e102	e106	1240	449	42	18	74	8.6	116
29	67	384	177	e101	---	1230	250	44	17	38	7.8	235
30	224	195	172	e100	---	799	276	42	15	25	16	234
31	194	---	1790	e98	---	795	---	38	---	19	1040	---
TOTAL	2450	5600	13601	17991	7953	10535	18830	3504	992	818.3	1605.1	2478
MEAN	79.0	187	439	580	284	340	628	113	33.1	26.4	51.8	82.6
MAX	315	767	1790	2510	1240	1240	2690	347	138	137	1040	522
MIN	26	56	138	98	86	93	90	38	14	6.8	7.2	11
CFSM	0.86	2.03	4.77	6.31	3.09	3.69	6.82	1.23	0.36	0.29	0.56	0.90
IN.	0.99	2.26	5.50	7.27	3.22	4.26	7.61	1.42	0.40	0.33	0.65	1.00

## STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1975 - 2005, BY WATER YEAR (WY)

	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	
MEAN	156	294	314	263	311	434	340	168	117	76.6	81.2	126																				
MAX	375	669	547	624	792	779	628	473	477	379	272	563																				
(WY)	1982	1986	1978	1998	1976	1979	2005	2004	1986	2004	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 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1975 - 2005	
ANNUAL TOTAL	108010		86357.4			
ANNUAL MEAN	295		237		223	
HIGHEST ANNUAL MEAN					323	
LOWEST ANNUAL MEAN					136	
HIGHEST DAILY MEAN	3900	Sep 9	2690	Apr 7	e4900	Jan 19 1996
LOWEST DAILY MEAN	24	Jul 3	6.8	Jul 15	1.7	Aug 18 1999
ANNUAL SEVEN-DAY MINIMUM	29	Oct 7	7.7	Jul 9	2.4	Aug 14 1999
MAXIMUM PEAK FLOW			3080	Jan 1	a6350	Sep 14 1979
MAXIMUM PEAK STAGE			8.51	Jan 1	11.95	Sep 14 1979
INSTANTANEOUS LOW FLOW			6.2	Jul 15,16	1.5	Jul 31 1999 <sup>b</sup>
ANNUAL RUNOFF (CFSM)	3.21		2.57		2.42	
ANNUAL RUNOFF (INCHES)	43.67		34.92		32.90	
10 PERCENT EXCEEDS	771		597		531	
50 PERCENT EXCEEDS	132		99		105	
90 PERCENT EXCEEDS	39		14		17	

<sup>a</sup> From rating curve extended above 4,500 ft<sup>3</sup>/s.

<sup>b</sup> Also Aug. 18, 19, 1999.

<sup>e</sup> Estimated.

