



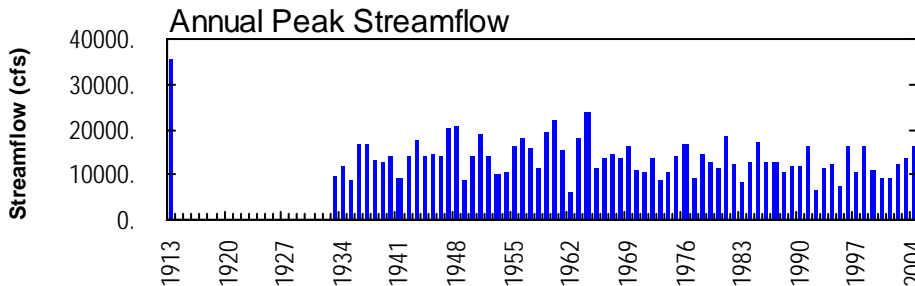
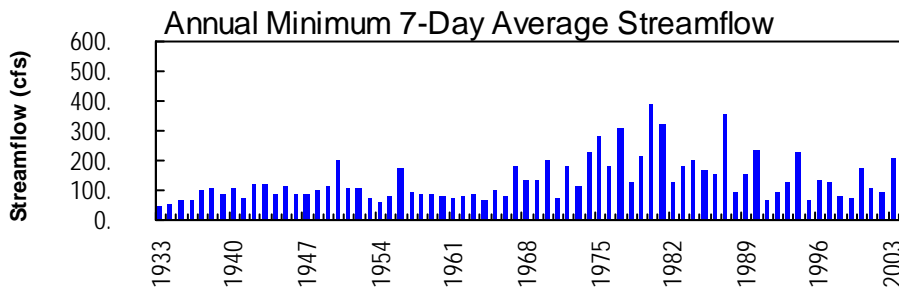
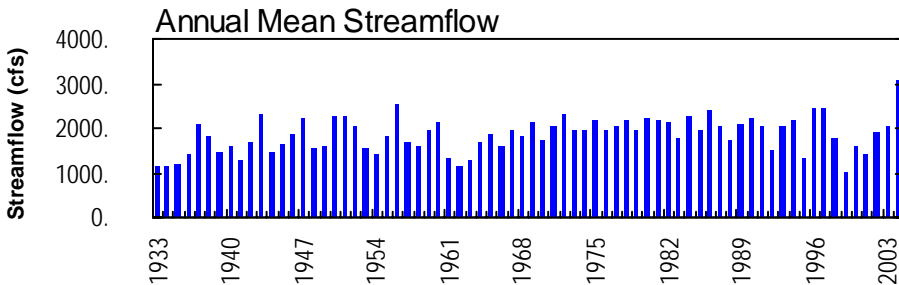
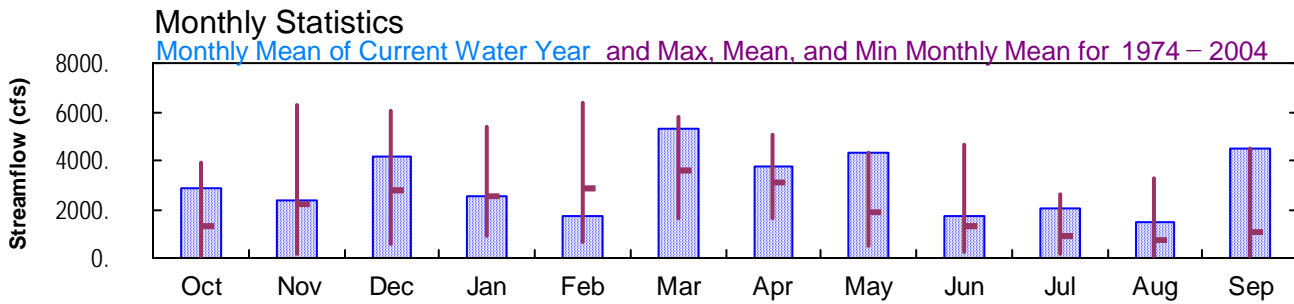
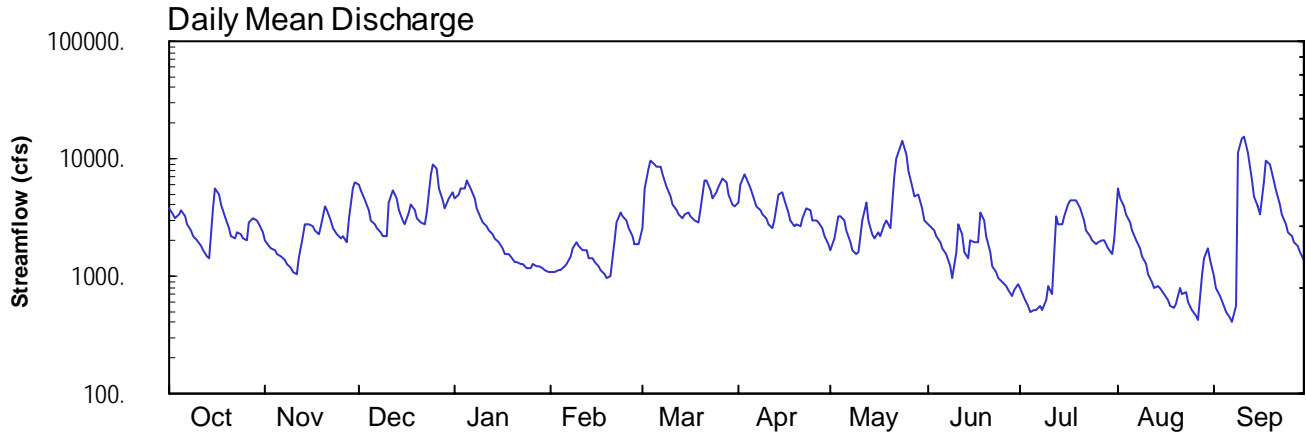
# 2004 Water Year FRENCH CREEK BASIN

## 03024000 French Creek at Utica, PA

Latitude: 41° 26' 15"  
Venango County

Longitude: 079° 57' 22"  
Datum: 1019.44 feet

Hydrologic Unit Code: 05010004  
Drainage Area: 1028. mi<sup>2</sup>



**FRENCH CREEK BASIN**

**03024000 FRENCH CREEK AT UTICA, PA**

**LOCATION.**--Lat 41°26'15", long 79°57'22", Venango County, Hydrologic Unit 05010004, on right bank at downstream side of bridge on SR 3017 at Utica and 2,000 ft upstream from Mill Creek.

**DRAINAGE AREA.**--1,028 mi<sup>2</sup>.

**PERIOD OF RECORD.**--August 1932 to current year.

**REVISED RECORDS.**--WSP 743: Drainage area. WSP 823: 1936 (M). WSP 1275: 1933, 1936.

**GAGE.**--Water-stage recorder. Datum of gage is 1,019.44 ft above National Geodetic Vertical Datum of 1929. Prior to Nov. 27, 1933, nonrecording gage at same site and datum.

**REMARKS.**--Records good except those for estimated daily discharges, which are poor. Flow regulated since July 1970 by Union City Reservoir (station 03021518) 50 mi upstream, serving as a retarding basin, and since January 1974 by Woodcock Creek Lake (station 03022550), 25 mi upstream. Several measurements of water temperature were made during the year. U.S. Army Corps of Engineers satellite telemetry at station.

**EXTREMES OUTSIDE PERIOD OF RECORD.**--Maximum stage since at least 1912, 15.7 ft in March 1913, discharge about 36,000 ft<sup>3</sup>/s.

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	3820	1980	5920	4630	e1090	e2600	4160	1650	2800	779	5530	1010
2	3400	1780	5310	4890	e1100	5650	6100	2110	2600	653	4590	797
3	3110	1700	4390	5530	e1110	8220	7360	3220	2440	560	3900	676
4	3290	1640	3600	5630	e1140	9430	6700	3260	2170	499	3350	558
5	3620	1540	3020	6500	e1200	8740	5490	3000	1940	509	2820	487
6	3270	1460	2770	5600	e1280	8640	4490	2450	1740	507	2440	438
7	2790	1360	2570	4550	e1500	8440	3970	1950	1530	567	2030	406
8	2480	1260	2350	3740	e1730	7320	3680	1690	1220	514	1740	563
9	2220	1150	2150	e3100	e1950	5870	3410	1510	956	628	1490	11100
10	1990	1060	2200	e2860	e1790	4800	3090	1600	1570	813	1250	14900
11	1810	1050	4270	e2630	e1670	4090	2780	3010	2730	698	1020	15300
12	1650	1420	5300	e2430	e1630	3680	2550	4160	2260	3260	873	11500
13	1470	2140	4620	e2260	e1440	3390	3020	2930	1600	2790	804	6630
14	1410	2740	3650	e2100	e1400	3150	4980	2290	1420	2720	809	4690
15	3830	2770	3040	e1940	e1320	3300	5230	2100	2000	3250	787	3870
16	5510	2640	2790	e1740	e1220	3470	4350	2390	1980	4130	704	3340
17	4960	2430	3500	e1540	e1120	3220	3510	2160	1970	4390	619	6310
18	4020	2270	4050	e1540	e1060	2960	2940	2780	3530	4370	556	9450
19	3240	2690	3570	e1460	e979	2850	2660	2940	2930	4440	544	9050
20	2550	3860	3100	e1340	e987	3620	2760	2530	2170	3740	587	7570
21	2210	3670	2820	e1300	e2010	6580	2700	7010	1580	3020	798	5280
22	2120	2990	2710	e1290	e2830	6440	3140	9810	1230	2460	717	4020
23	2350	2540	3460	e1240	e3550	5340	3710	12700	1080	2170	723	3330
24	2280	2250	7400	e1180	e3230	4620	3610	14000	958	2040	602	2710
25	2090	2140	8820	e1190	e2930	5170	2960	10800	885	1860	507	2360
26	2020	2170	8090	e1240	e2570	5840	2950	7780	816	1930	452	2140
27	2850	1970	5620	e1230	e2200	6780	2900	5850	749	2010	427	1940
28	3130	3110	4420	e1220	e1870	6320	2530	4790	690	2010	1030	1770
29	2940	5660	3700	e1190	e1870	5020	2200	4890	764	1710	1430	1580
30	2730	6280	4570	e1130	---	4080	1850	3720	856	1560	1700	1360
31	2370	---	5220	e1100	---	3960	---	3040	---	2020	1350	---
TOTAL	87530	71720	129000	79320	49776	163590	111780	134120	51164	62607	46179	135135
MEAN	2824	2391	4161	2559	1716	5277	3726	4326	1705	2020	1490	4504
MAX	5510	6280	8820	6500	3550	9430	7360	14000	3530	4440	5530	15300
MIN	1410	1050	2150	1100	979	2600	1850	1510	690	499	427	406
CFM	2.75	2.33	4.05	2.49	1.67	5.13	3.62	4.21	1.66	1.96	1.45	4.38
IN.	3.17	2.60	4.67	2.87	1.80	5.92	4.04	4.85	1.85	2.27	1.67	4.89

e Estimated.

FRENCH CREEK BASIN

03024000 FRENCH CREEK AT UTICA, PA--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1974 - 2004, BY WATER YEAR (WY) (SINCE REGULATION)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	1284	2231	2773	2503	2867	3602	3103	1860	1281	871	748	1025
MAX	3954	6309	6029	5426	6394	5778	5101	4326	4659	2629	3297	4504
(WY)	1991	1986	1978	1993	1976	1977	1994	2004	1986	1987	1980	2004
MIN	121	176	583	869	629	1622	1655	452	209	192	112	71.7
(WY)	1992	1992	1999	1977	1987	2000	1976	1985	1991	1995	1991	1995

SUMMARY STATISTICS FOR 2003 CALENDAR YEAR FOR 2004 WATER YEAR WATER YEARS 1974 - 2004

ANNUAL TOTAL	914444	1121921		
ANNUAL MEAN	2505	3065	2007	
HIGHEST ANNUAL MEAN			3065	2004
LOWEST ANNUAL MEAN			1044	1999
HIGHEST DAILY MEAN	10900	Jul 22	15300	Sep 11
LOWEST DAILY MEAN	470	Sep 15	406	Sep 7
ANNUAL SEVEN-DAY MINIMUM	533	Jun 30	541	Jul 3
MAXIMUM PEAK FLOW			16200	Sep 11
MAXIMUM PEAK STAGE			10.96	Sep 11
ANNUAL RUNOFF (CFSM)	2.44		2.98	
ANNUAL RUNOFF (INCHES)	33.09		40.60	
10 PERCENT EXCEEDS	4720		5840	4520
50 PERCENT EXCEEDS	2150		2550	1370
90 PERCENT EXCEEDS	796		815	238

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1933 - 1973, BY WATER YEAR (WY) (PRIOR TO REGULATION)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	695	1506	2238	2590	2713	3915	3147	1684	953	555	408	440
MAX	3744	3983	4471	7284	5894	7359	6688	4160	3717	2015	1907	2148
(WY)	1946	1971	1951	1937	1938	1964	1947	1956	1947	1967	1956	1958
MIN	69.5	183	227	403	523	1768	575	349	124	77.1	77.8	80.4
(WY)	1964	1954	1961	1961	1934	1937	1946	1934	1934	1934	1954	1954

SUMMARY STATISTICS WATER YEARS 1933 - 1973

ANNUAL MEAN	1751	
HIGHEST ANNUAL MEAN	2539	1956
LOWEST ANNUAL MEAN	1146	1934
HIGHEST DAILY MEAN	23000	Mar 6 1964
LOWEST DAILY MEAN	45	Sep 1 1933
ANNUAL SEVEN-DAY MINIMUM	48	Aug 27 1933
MAXIMUM PEAK FLOW	<b>a</b> 23800	Mar 7 1964
MAXIMUM PEAK STAGE	<b>b</b> 13.2	Mar 7 1964
INSTANTANEOUS LOW FLOW	43	Jul 30 1934
ANNUAL RUNOFF (CFSM)	1.70	
ANNUAL RUNOFF (INCHES)	23.15	
10 PERCENT EXCEEDS	4370	
50 PERCENT EXCEEDS	940	
90 PERCENT EXCEEDS	147	

**a** From rating curve extended above 20,700 ft<sup>3</sup>/s.

**b** From floodmark in gage well.