

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 upstream side of bridge on SR 3017 at Utica and 2,000 ft upstream from Mill Creek.

DRAINAGE AREA.--1,028 mi².

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 sea level. 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 ft³/s.

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	232	338	1670	e760	e480	3270	1050	897	1670	793	2090	281
2	271	432	1420	e800	e480	3170	972	1070	1630	670	3110	265
3	325	2970	1200	e1500	e490	3060	1220	1240	1310	601	5490	249
4	263	5300	1110	5920	e500	2700	4060	1260	1020	800	8140	237
5	213	4970	1140	6990	e500	2450	5710	1130	770	1140	6850	223
6	183	4310	1450	6200	e500	2200	5100	994	1230	931	4240	210
7	173	3850	1900	4570	e500	1990	4100	889	2470	695	4170	200
8	178	3070	1880	3530	e510	1830	6610	814	1850	572	3450	190
9	192	2490	1600	2940	e520	1710	8830	761	1230	506	2600	184
10	177	2100	1520	2660	e540	1570	8500	739	890	539	2680	182
11	157	1880	2270	3100	e700	1400	6170	757	734	1100	2530	223
12	155	1750	2390	3320	e900	1310	4820	840	875	1300	2100	241
13	177	1640	2030	2960	e1200	1280	4010	887	2260	1040	1800	259
14	247	1540	2250	2550	e1500	1240	3430	811	2180	753	1360	254
15	266	1440	4100	2190	e2000	1250	2800	694	1370	566	1070	265
16	496	1360	4280	e1800	2620	1320	2500	602	1220	499	820	317
17	563	1260	3700	e1550	2430	1710	2320	550	1730	539	666	495
18	446	1130	3120	e1300	2070	1840	2190	524	1880	505	593	543
19	324	931	2460	e1100	1750	1640	1980	4070	2950	464	533	423
20	285	749	2120	e1000	1540	1510	1800	6540	2610	411	479	341
21	259	665	2030	e760	1340	1440	2810	5520	2160	371	431	368
22	242	740	1870	e660	1260	1330	3830	3910	1760	349	394	787
23	234	747	1500	e640	2260	1210	3690	3140	1410	344	390	1050
24	384	690	1220	e600	4820	1080	3140	2920	1130	340	481	945
25	1130	630	972	e570	6890	998	2540	2460	988	318	641	895
26	1290	779	e840	e550	8030	965	2080	2030	1310	297	549	912
27	1070	2160	e770	e530	6980	919	1690	1680	1590	278	441	719
28	804	2950	e740	e520	5150	913	1380	1440	1320	262	382	519
29	595	2390	e690	e490	4050	917	1170	1160	1170	288	344	416
30	448	1950	e690	e480	---	980	997	896	991	437	321	382
31	372	---	e700	e480	---	1090	---	750	---	733	302	---
TOTAL	12151	57211	55632	63020	62510	50292	101499	51975	45708	18441	59447	12575
MEAN	392	1907	1795	2033	2156	1622	3383	1677	1524	595	1918	419
MAX	1290	5300	4280	6990	8030	3270	8830	6540	2950	1300	8140	1050
MIN	155	338	690	480	480	913	972	524	734	262	302	182
CFSM	.38	1.86	1.75	1.98	2.10	1.58	3.29	1.63	1.48	.58	1.87	.41
IN.	.44	2.07	2.01	2.28	2.26	1.82	3.67	1.88	1.65	.67	2.15	.46

e Estimated.

FRENCH CREEK BASIN

03024000 FRENCH CREEK AT UTICA, PA--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1974 - 2000, BY WATER YEAR (WY) (SINCE REGULATION)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	1272	2336	2733	2603	2902	3616	3071	1700	1259	811	729	928
MAX	3954	6309	6029	5426	6394	5778	5101	4081	4659	2629	3297	3408
(WY)	1991	1986	1978	1993	1976	1977	1994	1996	1986	1987	1980	1990
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 1999 CALENDAR YEAR FOR 2000 WATER YEAR WATER YEARS 1974 - 2000

ANNUAL TOTAL		476431		590461								
ANNUAL MEAN		1305		1613						1991		
HIGHEST ANNUAL MEAN										2459		1997
LOWEST ANNUAL MEAN										1044		1999
HIGHEST DAILY MEAN				10800	Jan 25		8830	Apr 9		18100		Feb 21 1981
LOWEST DAILY MEAN				75	Sep 26-28		155	Oct 12		60		Sep 15 1991
ANNUAL SEVEN-DAY MINIMUM				76	Sep 23		173	Oct 7		67		Sep 7 1995
INSTANTANEOUS PEAK FLOW							9020	Apr 9		18400		Feb 21 1981
INSTANTANEOUS PEAK STAGE							8.18	Apr 9		11.64		Feb 21 1981
ANNUAL RUNOFF (CFSM)				1.27			1.57			1.94		
ANNUAL RUNOFF (INCHES)				17.24			21.37			26.31		
10 PERCENT EXCEEDS				3300			3740			4530		
50 PERCENT EXCEEDS				690			1100			1330		
90 PERCENT EXCEEDS				118			294			239		

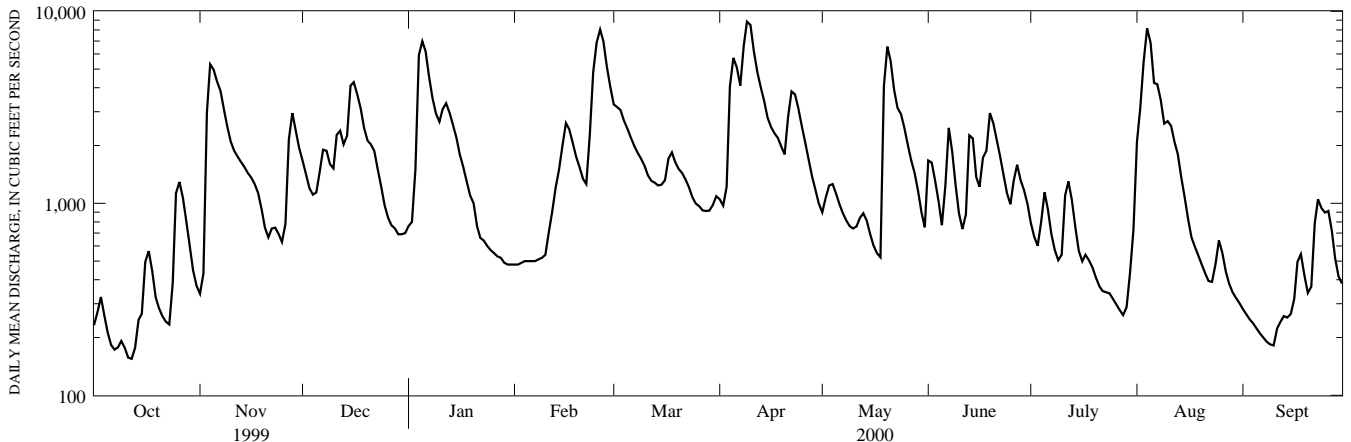
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1933 - 1973, BY WATER YEAR (WY) (PRIOR TO REGULATION)

	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							
INSTANTANEOUS PEAK FLOW			a23800		Mar 7 1964							
INSTANTANEOUS PEAK STAGE			b13.2		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 ft³/s.
- b From floodmark in gage well.



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