

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 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	362	418	3930	e1200	e2400	2100	3170	989	e850	e300	e120	e180
2	333	404	3360	e1100	e3000	1880	2740	e900	e1100	e320	e110	e280
3	311	393	2840	e1050	e2600	1730	2490	e840	e1600	e300	e110	e380
4	309	391	2540	e1050	e2000	1600	2350	e770	e2000	e280	e600	e280
5	438	382	2170	e1020	e1800	1480	2190	e700	e1900	e260	e900	e220
6	1450	372	2010	e1020	e1500	1280	2190	e650	e1200	e300	e560	e180
7	2490	364	1870	e1000	e1400	1110	2660	e600	e1000	e330	e360	e170
8	2430	350	1770	e1100	e1300	1010	2780	e590	e840	e290	e280	e160
9	2870	347	1700	e1050	e1900	997	2850	e580	e700	e260	e220	e150
10	3830	390	1610	e1020	e4000	961	3000	e570	e600	e230	e180	e140
11	4360	546	1370	e980	8870	932	2840	e570	e620	e210	e150	e130
12	3530	899	2950	e950	7570	903	2640	e560	e680	e200	e140	e125
13	2760	975	4100	e920	5320	1540	2370	e900	e780	e190	e135	e120
14	2030	807	3630	e900	4640	3600	2140	e1100	e600	e180	e130	e120
15	1480	666	3190	e860	5980	3920	2000	e820	e480	e170	e125	e115
16	1150	607	3040	e850	6340	3630	3080	e740	e420	e160	e120	e110
17	901	594	7700	e980	5350	3760	3600	e550	e380	e150	e120	e110
18	825	658	8370	e1250	4330	3640	3580	e500	e350	e140	e120	e105
19	792	832	7640	e1350	3280	3130	3280	e460	e330	e140	e125	e105
20	770	884	5410	e1250	3000	2690	2800	e420	e300	e150	e125	e110
21	720	863	4330	e1100	2890	2570	2840	e390	e290	e230	e125	e110
22	639	823	3670	e1050	2590	3060	3370	e460	e400	e210	e130	e115
23	582	655	3180	e1000	2380	3210	3470	e610	e840	e180	e140	e115
24	544	757	e2800	e960	2250	2940	3080	e900	e900	e160	e140	e120
25	531	934	e2600	e900	2130	2770	2590	e1400	e660	e150	e130	e120
26	560	1360	e2300	e840	2610	2590	2160	e2100	e470	e180	e160	e130
27	593	3200	e2000	e780	2780	2380	1870	e2000	e400	e230	e180	e140
28	568	4540	e1800	e720	2400	2220	1580	e1600	e360	e190	e220	e200
29	507	4640	e1700	e700	---	2210	1300	e1400	e320	e160	e280	e330
30	464	4300	e1500	e1050	---	2400	1120	e1100	e310	e140	e260	e300
31	441	---	e1400	e1500	---	3310	---	e1000	---	e130	e200	---
TOTAL	39570	33351	98480	31500	96610	71553	78130	26769	21680	6520	6695	4970
MEAN	1276	1112	3177	1016	3450	2308	2604	864	723	210	216	166
MAX	4360	4640	8370	1500	8870	3920	3600	2100	2000	330	900	380
MIN	309	347	1370	700	1300	903	1120	390	290	130	110	105
CFSM	1.24	1.08	3.09	.99	3.36	2.25	2.53	.84	.70	.20	.21	.16
IN.	1.43	1.21	3.56	1.14	3.50	2.59	2.83	.97	.78	.24	.24	.18

e Estimated.

FRENCH CREEK BASIN

03024000 FRENCH CREEK AT UTICA, PA--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1974 - 2001, BY WATER YEAR (WY) (SINCE REGULATION)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	1272	2292	2749	2547	2921	3570	3054	1670	1240	790	710	901
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 2000 CALENDAR YEAR FOR 2001 WATER YEAR WATER YEARS 1974 - 2001

ANNUAL TOTAL		636868		515828								
ANNUAL MEAN		1740		1413					1970			
HIGHEST ANNUAL MEAN									2459			1997
LOWEST ANNUAL MEAN									1044			1999
HIGHEST DAILY MEAN				8830	Apr 9		8870	Feb 11	18100		Feb 21	1981
LOWEST DAILY MEAN				182	Sep 10		e105	Sep 18,19	60		Sep 15	1991
ANNUAL SEVEN-DAY MINIMUM				202	Sep 5		a109	Sep 15	67		Sep 7	1995
MAXIMUM PEAK FLOW							9140	Feb 11	18400		Feb 21	1981
MAXIMUM PEAK STAGE							8.23	Feb 11	11.64		Feb 21	1981
ANNUAL RUNOFF (CFSM)				1.69			1.37		1.92			
ANNUAL RUNOFF (INCHES)				23.05			18.67		26.04			
10 PERCENT EXCEEDS				4050			3280		4490			
50 PERCENT EXCEEDS				1120			900		1310			
90 PERCENT EXCEEDS				370			140		234			

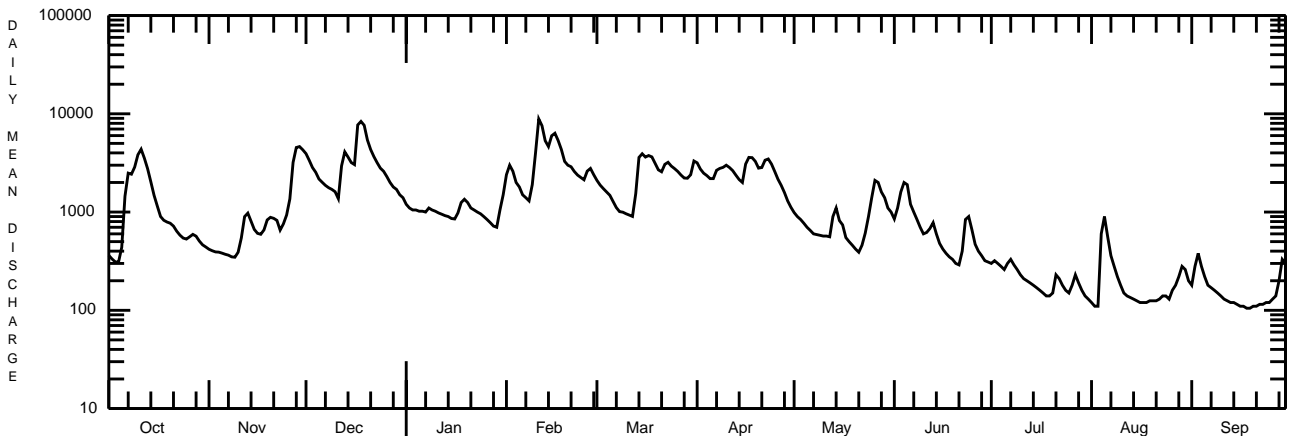
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1933 - 1973, BY WATER YEAR (WY) (PRIOR TO REGULATION)

	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				b23800		Mar 7	1964					
INSTANTANEOUS PEAK STAGE				c13.2		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 Computed using estimated daily discharges.
- b From rating curve extended above 20,700 ft³/s.
- c From floodmark in gage well.
- e Estimated.



OCTOBER 1, 2000 TO SEPTEMBER 30, 2001