

FRENCH CREEK BASIN

03023100 FRENCH CREEK AT MEADVILLE, PA

LOCATION.--Lat 41°37'57", long 80°09'35", Crawford County, Hydrologic Unit 05010004, on left bank 30 ft upstream from bridge on Mercer Street at Meadville, 300 ft downstream from Mill Run, 2,600 ft downstream from Cussewago Creek, at mile 30.5.

DRAINAGE AREA.--788 mi².

PERIOD OF RECORD.--October 1988 to current year.

GAGE.--Water-stage recorder. Datum of gage is 1,058.83 ft above sea level (U.S. Army Corps of Engineers benchmark). Prior to October 27, 1989, water-stage recorder at site 2,300 ft upstream at different datum.

REMARKS.--Records good except those for estimated daily discharges, which are poor. Flow regulated since October 1971 by Union City Reservoir 43 mi upstream, serving as a retarding basin, and since January 1974 by Woodcock Creek Lake (station 03022550) 9.0 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 discharge 25,800 ft³/s April 1947, gage height, 17.05 ft; maximum gage height 17.60 ft, January 1959 (backwater from ice), site and datum then in use.

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	203	272	1470	e660	e360	2530	844	650	2000	509	2770	226
2	315	559	1220	e700	e350	2610	780	830	1320	426	2810	213
3	239	4000	1050	e1200	e350	2450	1050	1070	1070	390	7150	201
4	176	5530	1000	5390	e340	2180	3670	977	733	921	8620	193
5	143	4700	1120	6240	e340	1980	4980	831	572	960	4920	180
6	134	4110	1500	4880	e330	1790	4030	720	1660	664	3450	167
7	141	3510	1870	3550	e330	1630	3100	641	2180	462	3510	158
8	130	2730	1700	2730	e330	1520	5060	586	1450	373	2850	152
9	127	2240	1390	2320	e340	1430	7090	555	925	334	2180	147
10	114	1930	1480	2250	e350	1300	6170	548	652	640	2670	164
11	116	1760	2240	2780	e370	1130	4320	621	542	1310	2170	187
12	131	1660	2130	2810	e420	1030	3490	759	1160	1170	1920	214
13	145	1560	1750	2430	e500	1030	2920	731	1560	845	1530	224
14	177	1480	2090	2090	e660	1020	2490	610	1180	521	1150	225
15	360	1400	3950	e1700	e940	1080	2050	512	870	393	869	228
16	568	1310	3660	e1400	e1400	1160	1890	432	741	397	615	335
17	467	1210	3150	e1200	2800	1440	1810	385	976	391	524	563
18	302	1060	2480	e1000	2140	1510	1710	641	1510	373	466	435
19	240	785	1930	e840	1820	1330	1530	5290	2360	324	421	330
20	216	618	1690	e720	1510	1240	1530	6370	1890	286	375	275
21	201	639	1660	e600	1240	1130	2660	4310	1210	262	336	498
22	183	726	1470	e570	1090	1030	3410	3190	983	256	305	1060
23	206	672	1170	e540	2090	909	3030	2380	867	260	356	996
24	694	603	959	e500	4390	804	2460	2080	644	239	531	823
25	1430	552	791	e470	6480	757	1910	1900	666	215	566	953
26	1270	846	e700	e440	6960	739	1550	1560	1180	198	414	821
27	979	2600	e620	e420	5280	706	1220	1310	1140	179	337	559
28	694	2660	e570	e400	3940	706	991	1080	990	192	299	413
29	455	2130	e540	e380	3050	737	810	817	864	249	278	353
30	349	1700	e520	e370	---	865	701	598	658	643	263	338
31	302	---	e580	e360	---	929	---	513	---	888	244	---
TOTAL	11207	55552	48450	51940	50500	40702	79256	43497	34553	15270	54899	11631
MEAN	362	1852	1563	1675	1741	1313	2642	1403	1152	493	1771	388
MAX	1430	5530	3950	6240	6960	2610	7090	6370	2360	1310	8620	1060
MIN	114	272	520	360	330	706	701	385	542	179	244	147
CFSM	.46	2.35	1.98	2.13	2.21	1.67	3.35	1.78	1.46	.63	2.25	.49
IN.	.53	2.62	2.29	2.45	2.38	1.92	3.74	2.05	1.63	.72	2.59	.55

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1989 - 2000, BY WATER YEAR (WY)

MEAN	1028	1894	1893	2492	2085	2445	2433	1390	860	460	492	740
MAX	3181	3205	3039	4233	4190	4059	4023	2998	2659	1337	1771	2786
(WY)	1991	1997	1991	1998	1990	1997	1994	1996	1989	1992	2000	1990
MIN	104	154	510	834	757	1313	1556	451	155	134	81.3	52.6
(WY)	1992	1992	1999	1994	1993	2000	1995	1993	1991	1998	1998	1991

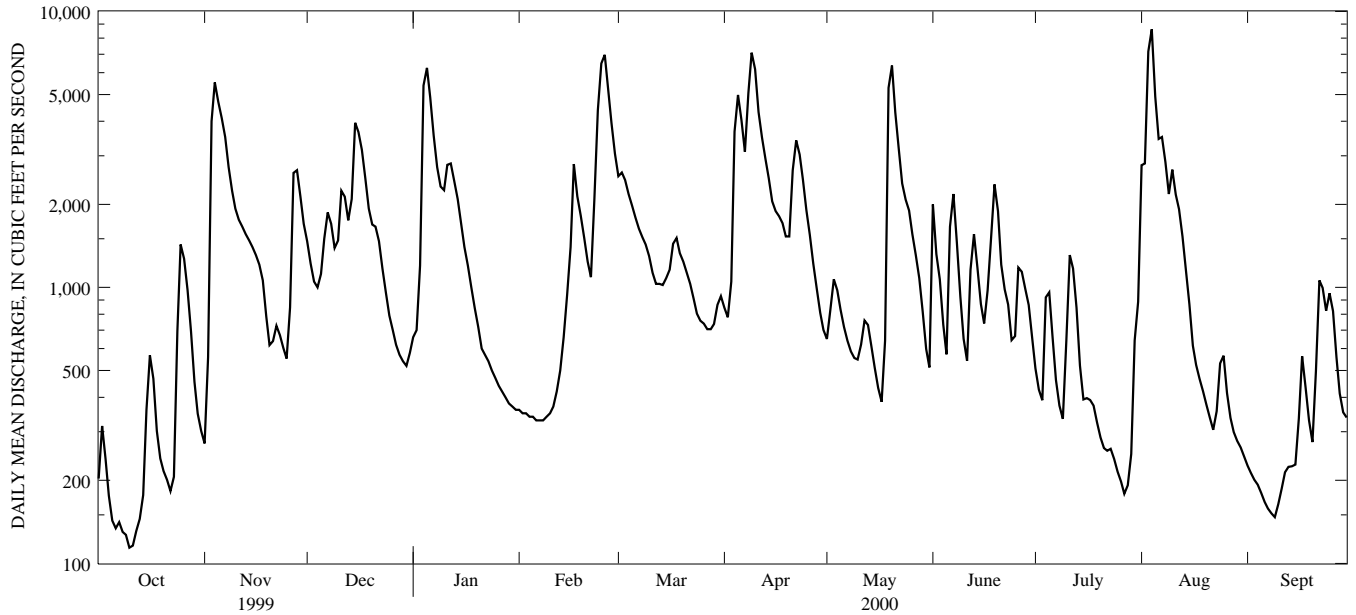
e Estimated.

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03023100 FRENCH CREEK AT MEADVILLE, PA--Continued

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1989 - 2000	
ANNUAL TOTAL	390834		497457		1514	
ANNUAL MEAN	1071		1359		1982	
HIGHEST ANNUAL MEAN					1996	
LOWEST ANNUAL MEAN					824	
HIGHEST DAILY MEAN	9630	Jan 25	8620	Aug 4	14300	Jan 20 1996
LOWEST DAILY MEAN	60	Sep 19	114	Oct 10	37	Sep 22 1991
ANNUAL SEVEN-DAY MINIMUM	65	Sep 18	128	Oct 6	42	Sep 19 1991
INSTANTANEOUS PEAK FLOW			9310	Aug 4	a14800	Jan 20 1996
INSTANTANEOUS PEAK STAGE			12.66	Aug 4	15.52	Jan 20 1996
INSTANTANEOUS LOW FLOW			111	Oct 10	37	Sep 22 1991
ANNUAL RUNOFF (CFSM)	1.36		1.72		1.92	
ANNUAL RUNOFF (INCHES)	18.45		23.48		26.10	
10 PERCENT EXCEEDS	2610		3060		3520	
50 PERCENT EXCEEDS	560		868		1000	
90 PERCENT EXCEEDS	82		239		126	

a From rating curve extended above 10,300 ft³/s.



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