

05131500 LITTLE FORK RIVER AT LITTLEFORK, MN

LOCATION.--Lat 48°23'45", long 93°32'57", in NE $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 9, T.68 N., R.25 W., Koochiching County, Hydrologic Unit 09030005, on right bank at town of Littlefork, 0.9 mi upstream from bridge on State Highway 217, 2.8 mi upstream from Beaver Creek, and 19 mi upstream from mouth.

DRAINAGE AREA.--1,680 mi².

PERIOD OF RECORD.--June to November 1909, April to November 1910, April 1911 to June 1917, September 1917, October 1917 to March 1919 (gage heights only), June 1928 to current year.

REVISED RECORDS.--WSP 955: Drainage area. WSP 1508: 1913, 1916, 1928-32, 1934. WRD MN-74: 1963.

GAGE.--Water-stage recorder. Datum of gage is 1,083.59 ft above sea level (NGVD of 1929). June 23, 1909 to March 4, 1917, nonrecording gage, and July 21, 1937 to October 23, 1979, water-stage recorder at site 1.2 mi downstream at datum 10.53 ft lower; March 5 to September 30, 1917, and June 22, 1928 to July 20, 1937, non-recording gage at site 1.18 mi downstream at datum 10.53 ft lower.

REMARKS.--Records good except those for estimated daily discharges, which are fair.

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	1,210	6,150	915	e310	e195	e170	e1,300	1,770	5,130	652	164	100
2	1,140	5,740	e870	e305	e195	e170	e4,000	1,650	4,360	663	159	95
3	1,260	5,040	e830	e300	e195	e165	e5,400	1,540	3,880	828	154	89
4	1,360	4,380	791	e295	e192	e165	e6,600	1,450	3,250	1,150	148	87
5	1,300	3,850	e760	e285	e190	e165	e7,540	1,480	2,800	1,190	140	90
6	1,230	3,320	e753	e280	e190	e165	e10,500	1,500	2,700	1,120	131	90
7	1,170	2,870	690	e275	e190	e160	12,500	1,460	2,560	904	125	87
8	1,070	2,510	e660	e270	e190	e160	8,770	1,500	2,430	747	138	81
9	1,000	2,210	e630	e260	e190	e160	7,440	1,530	2,460	633	158	78
10	977	1,990	e590	e255	e190	e155	6,600	1,660	2,380	555	142	79
11	956	1,820	e560	e250	e190	e155	5,920	2,580	2,270	483	130	76
12	925	1,630	e530	e245	e190	e155	5,780	3,140	2,170	448	140	93
13	887	1,450	e510	e235	e190	e155	5,630	2,800	2,130	429	140	107
14	828	1,310	e485	e230	e190	e153	5,140	2,630	2,300	381	132	84
15	787	1,220	e465	e225	e190	e150	4,650	2,760	3,420	344	126	75
16	770	1,220	e445	e220	e185	e150	4,180	2,830	4,850	456	120	74
17	749	1,200	e430	e215	e185	e150	3,720	2,660	4,870	421	116	75
18	710	1,130	e420	e210	e185	e150	3,290	2,420	4,390	378	126	87
19	696	1,130	e410	e205	e185	e145	2,990	2,200	3,690	390	168	112
20	730	1,170	e400	e205	e185	e145	3,050	2,100	2,880	387	187	107
21	777	1,160	e385	e205	e180	e145	2,800	2,100	2,270	436	205	98
22	754	1,130	e370	e200	e180	e145	2,480	1,900	1,850	356	200	97
23	775	e1,100	e355	e200	e180	e145	2,190	1,820	1,560	308	174	101
24	839	e1,060	e345	e200	e175	e145	1,940	1,890	1,220	279	149	103
25	1,000	e1,030	e340	e200	e175	e145	1,760	1,920	1,010	254	136	107
26	1,300	e1,100	e332	e195	e175	e150	1,690	5,790	842	228	128	107
27	1,400	e1,280	e330	e195	e175	e155	1,770	11,100	760	207	122	101
28	1,370	e1,200	e325	e195	e170	e165	1,900	12,500	690	195	121	96
29	1,330	e1,050	e320	e195	---	e180	1,920	10,900	630	184	116	95
30	3,160	979	e320	e195	---	e230	1,860	8,260	641	172	107	99
31	5,450	---	e315	e195	---	e550	---	6,380	---	169	102	---
TOTAL	37,910	62,429	15,881	7,250	5,202	5,298	135,310	106,220	76,393	15,347	4,404	2,770
MEAN	1,223	2,081	512	234	186	171	4,510	3,426	2,546	495	142	92.3
MAX	5,450	6,150	915	310	195	550	12,500	12,500	5,130	1,190	205	112
MIN	696	979	315	195	170	145	1,300	1,450	630	169	102	74
AC-FT	75.190	123,800	31,500	14,380	10,320	10,510	268,400	210,700	151,500	30,440	8,740	5,490
CFSM	0.73	1.24	0.30	0.14	0.11	0.10	2.68	2.04	1.52	0.29	0.08	0.05
IN.	0.84	1.38	0.35	0.16	0.12	0.12	3.00	2.35	1.69	0.34	0.10	0.06

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1909 - 2005, BY WATER YEAR (WY)

MEAN	897	746	332	155	116	280	3,202	2,841	1,758	987	562	731
MAX	4,450	3,044	1,186	477	270	3,022	8,421	12,190	5,490	3,643	2,679	5,189
(WY)	(1996)	(1972)	(2002)	(1966)	(1969)	(1945)	(1966)	(1950)	(1944)	(1944)	(1988)	(1977)
MIN	43.4	60.8	52.6	43.5	42.2	50.2	292	173	182	75.4	34.3	29.2
(WY)	(1977)	(1977)	(1977)	(1931)	(1963)	(1940)	(1977)	(1977)	(1988)	(1988)	(1936)	(1976)

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SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1909 - 2005	
ANNUAL TOTAL	435,687		474,414		1,064	
ANNUAL MEAN	1,190		1,300		1,912	
HIGHEST ANNUAL MEAN					1,912	1966
LOWEST ANNUAL MEAN					306	1931
HIGHEST DAILY MEAN	6,800	Jun 2	12,500	Apr 7, May 28	25,000	Apr 18, 1916
LOWEST DAILY MEAN	115	Feb 13	74	Sep 16	21	Aug 26, 1936
ANNUAL SEVEN-DAY MINIMUM	115	Feb 13	83	Sep 5	22	Aug 21, 1936
MAXIMUM PEAK FLOW			a13,800	Apr 7	25,000	Apr 18, 1916
MAXIMUM PEAK STAGE			b19.19	Apr 6	c37.00	Apr 18, 1916
INSTANTANEOUS LOW FLOW			71	Sep 15	21	Aug 26, 1936
ANNUAL RUNOFF (AC-FT)	864,200		941,000		771,200	
ANNUAL RUNOFF (CFSM)	0.709		0.774		0.634	
ANNUAL RUNOFF (INCHES)	9.65		10.50		8.61	
10 PERCENT EXCEEDS	3,230		3,360		2,800	
50 PERCENT EXCEEDS	693		436		376	
90 PERCENT EXCEEDS	124		122		88	

- a Gage height, 16.89 ft.
- b Backwater from ice.
- c Also occurred May 11, 1950, site and datum then in use.
- e Estimated.

