

## UPPER MISSISSIPPI RIVER MAIN STEM--Continued

05286000 RUM RIVER NEAR ST. FRANCIS, MN

LOCATION.--Lat 45°19'40", long 93°22'20", in SE<sup>1</sup>/<sub>4</sub> sec. 19, T.33 N., R.24 W., Anoka County, Hydrologic Unit 07010207, on left bank at upstream side of County Highway 22 bridge, 4 mi south of St. Francis and 15.8 mi upstream from mouth.

DRAINAGE AREA.--1,360 mi<sup>2</sup> (approximately).

PERIOD OF RECORD.--May to November 1929, March 1930 to September 1931, April to November 1932, March 1933 to current year.

REVISED RECORDS.--WSP 1308: 1930(M), 1932(M).

GAGE.--Water-stage recorder. Datum of gage is 860.74 ft above sea level (NGVD of 1929, levels by Anoka County Highway Department). Prior to Nov. 9, 1933, nonrecording gage at site 50 ft downstream at same datum.

REMARKS.--Records good except those for estimated daily discharges, which are fair to poor. Occasional regulation from Ogechie (also controls Mille Lacs Lake) and Onamia Lakes.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	373	267	514	e266	e228	e218	720	1490	708	2390	1430	884
2	371	270	527	e263	e225	e217	885	1500	670	2220	1440	1060
3	347	275	528	e262	e223	e218	985	1530	650	1900	1500	1150
4	346	275	522	e267	e226	e222	1150	1540	636	1500	1780	1240
5	340	273	549	e271	e231	e227	1200	1490	628	1200	1780	1380
6	332	278	609	e276	e237	e237	1420	1380	609	1020	1850	1800
7	327	279	658	e279	e238	e247	1520	1260	605	933	1830	2010
8	316	276	667	e281	e238	e253	1550	1210	600	975	1800	2210
9	316	274	668	e280	e239	e265	1680	1240	595	1040	1720	2270
10	324	271	607	e277	e239	e270	1830	1310	594	1180	1570	2360
11	324	269	649	e276	e238	e274	2160	1380	632	1550	1400	2540
12	323	268	616	e273	e238	e300	2660	1540	650	1970	1260	2820
13	332	278	640	e269	e239	e239	3060	1800	629	2230	1180	3020
14	351	283	605	e263	e240	e210	3660	2060	615	2410	1110	3080
15	352	290	511	e260	e240	e146	4740	2220	596	2660	1060	3000
16	348	298	519	e257	e241	e224	5800	2300	565	2990	1030	2800
17	346	299	547	e252	e241	e235	6110	2290	548	3320	1020	2530
18	343	303	539	e255	e242	e230	5920	2220	527	3460	1010	2190
19	337	304	546	e257	e241	e233	5430	2070	519	3320	974	1850
20	334	301	e409	e260	e241	e234	4800	1840	607	3000	956	1580
21	328	302	e384	e262	e242	e234	4200	1600	741	2620	1100	1370
22	319	299	e372	e266	e239	e235	3690	1400	954	2200	1150	1240
23	311	299	e359	e272	e234	e237	3240	1260	1110	1860	1200	1160
24	304	326	e354	e266	e231	e240	2860	1140	1260	1610	1170	1100
25	297	375	e347	e259	e227	e245	2520	1040	1600	1470	1170	1050
26	294	430	e325	e248	e225	e250	2160	976	1790	1380	1180	1060
27	280	465	e315	e239	e222	e275	1880	922	1980	1290	1150	1040
28	267	471	e303	e233	e220	312	1720	878	2120	1310	1080	1030
29	268	506	e288	e230	---	395	1600	833	2260	1320	999	1040
30	266	511	e282	e229	---	504	1530	795	2380	1320	938	1030
31	264	---	e268	e228	---	619	---	751	---	1380	892	---
TOTAL	9980	9615	15027	8076	6565	8245	82680	45265	28378	59028	39729	52894
MEAN	322	320	485	261	234	266	2756	1460	946	1904	1282	1763
MAX	373	511	668	281	242	619	6110	2300	2380	3460	1850	3080
MIN	264	267	268	228	220	146	720	751	519	933	892	884
AC-FT	19800	19070	29810	16020	13020	16350	164000	89780	56290	117100	78800	104900
CFSM	0.24	0.24	0.36	0.19	0.17	0.20	2.03	1.07	0.70	1.40	0.94	1.30
IN.	0.27	0.26	0.41	0.22	0.18	0.23	2.26	1.24	0.78	1.61	1.09	1.45

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STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1929 - 2002, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	449	439	323	242	246	612	1581	1118	868	651	424	442
MAX	2300	1715	1051	660	813	2699	4269	3899	3400	2532	2251	2362
(WY)	1969	1972	1983	1987	1966	1966	1969	1986	1984	1954	1972	1986
MIN	65.4	71.8	55.8	51.5	59.2	75.8	154	73.6	43.7	34.5	37.3	47.1
(WY)	1934	1934	1934	1934	1934	1934	1934	1934	1934	1934	1934	1933

SUMMARY STATISTICS FOR 2001 CALENDAR YEAR FOR 2002 WATER YEAR WATER YEARS 1929 - 2002

ANNUAL TOTAL		337333		365482								
ANNUAL MEAN		924		1001						634		
HIGHEST ANNUAL MEAN										1512		1986
LOWEST ANNUAL MEAN										66.1		1934
HIGHEST DAILY MEAN				8090	Apr 29		6110	Apr 17		10000	Apr 13	1969
LOWEST DAILY MEAN				127	Feb 20		146	Mar 15		30	Aug 3	1934
ANNUAL SEVEN-DAY MINIMUM				127	Feb 20		216	Mar 14		31	Aug 1	1934
MAXIMUM PEAK FLOW							6200	Apr 17		10100a	Apr 20	1965
MAXIMUM PEAK STAGE							8.70	Apr 17		11.63	Apr 13	1969
INSTANTANEOUS LOW FLOW							90b	Mar 15		29	Aug 18	1934
ANNUAL RUNOFF (AC-FT)		669100		724900			459300					
ANNUAL RUNOFF (CFM)		0.68		0.74			0.47					
ANNUAL RUNOFF (INCHES)		9.23		10.00			6.33					
10 PERCENT EXCEEDS		2310		2240			1390					
50 PERCENT EXCEEDS		432		607			373					
90 PERCENT EXCEEDS		132		239			118					

a Also occurred Apr. 13, 1969.  
 b Result of freezeup.  
 e Estimated.

