

UPPER MISSISSIPPI RIVER MAIN STEM

05286000 RUM RIVER NEAR ST. FRANCIS, MN

LOCATION.--Lat 4519'40", long 9322'20", in SE 1 / 4 sec. 19, T.33 N., R.24 W., Anoka County, Hydrologic Unit 07010207, on left bank at upstream side of highway bridge, 4 mi south of St. Francis and 15.8 mi upstream from mouth.

DRAINAGE AREA.--1,360 mi², 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 mean sea level (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 by Ogechie (also controls Mille Lacs Lake) and Onamia Lakes.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	294	339	308	e300	e265	1040	1310	463	393	495	234	186
2	288	356	308	323	e260	1050	1530	423	415	491	227	182
3	287	370	308	290	e250	e1030	1660	404	412	474	229	177
4	287	373	308	e275	e245	e1000	1700	373	403	439	224	172
5	276	371	304	e260	e240	e950	1730	370	377	410	215	168
6	271	370	e300	244	e240	e880	1770	356	356	394	224	166
7	270	370	e300	243	e240	e820	1870	327	335	385	233	162
8	267	368	303	247	e240	e740	1950	e360	317	386	273	159
9	269	364	292	e235	e240	e680	1960	e470	307	373	254	155
10	281	355	291	e230	e240	e620	1870	e460	296	367	253	154
11	276	352	288	e220	e240	e570	1760	e440	292	369	258	152

12	287	344	293	e215	e240	e540	1700	e425	302	362	243	152
13	341	342	322	e205	e245	e510	1680	e420	308	355	232	149
14	356	332	314	e200	e250	e480	1640	e420	317	346	222	143
15	354	321	314	e200	e255	e470	1530	e410	330	411	211	143
16	362	268	279	e200	e265	e460	1370	e450	353	411	213	139
17	375	292	294	e210	e290	e450	1250	e440	371	412	208	136
18	376	345	278	e215	324	e440	1160	e430	377	434	204	139
19	378	340	275	e222	355	e440	1080	e420	403	455	204	140
20	369	309	258	e228	393	e430	994	e410	416	442	216	143
21	356	354	261	e230	451	e430	924	e400	419	409	216	140
22	345	335	317	e235	521	418	874	e380	459	379	230	134
23	338	e330	253	e240	630	415	825	e365	497	354	247	131
24	338	e320	e250	e240	738	416	785	e350	512	334	244	134
25	337	e310	e250	e240	850	415	736	e340	518	318	241	137
26	329	303	e250	e235	927	423	677	330	505	307	235	142
27	321	299	e250	e230	947	487	625	324	501	299	220	142
28	321	339	e250	e230	1010	614	587	314	483	283	214	141
29	321	361	e250	e245	---	736	523	306	482	266	207	138
30	315	336	e250	e250	---	916	486	320	487	253	199	139
31	319	---	e250	e265	---	1120	---	345	---	243	193	---
TOTAL	9904	10168	8768	7402	11391	19990	38556	12045	11943	11656	7023	4495
MEAN	319	339	283	239	407	645	1285	389	398	376	227	150
MAX	378	373	322	323	1010	1120	1960	470	518	495	273	186
MIN	267	268	250	200	240	415	486	306	292	243	193	131
AC-FT	19640	20170	17390	14680	22590	39650	76480	23890	23690	23120	13930	8920
CFSM	.23	.25	.21	.18	.30	.47	.94	.29	.29	.28	.17	.11

e Estimated

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1929 - 1998, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	463	449	327	246	250	626	1554	1098	866	634	410	429
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 1997 CALENDAR YEAR		FOR 1998 WATER YEAR		WATER YEARS 1929 - 1998		
ANNUAL TOTAL	255258			153341			
ANNUAL MEAN	699			420		631	
HIGHEST ANNUAL MEAN						1512	1986
LOWEST ANNUAL MEAN						66.1	1934
HIGHEST DAILY MEAN	7910	Apr 10	1960	Apr 9	10000	Apr 13	1969
LOWEST DAILY MEAN	250	Jan 20	131	Sep 23	30	Aug 3	1934
ANNUAL SEVEN-DAY MINIMUM	250	Jan 20	137	Sep 19	31	Aug 1	1934
INSTANTANEOUS PEAK FLOW			1970	Apr 8	10100a	Apr 20	1965
INSTANTANEOUS PEAK STAGE			5.09	Apr 8	11.63	Apr 13	1969
INSTANTANEOUS LOW FLOW			130	Sep 23	29	Aug 18	1934
ANNUAL RUNOFF (AC-FT)	506300			304200		457300	
ANNUAL RUNOFF (CFSM)	.51			.31		.46	
10 PERCENT EXCEEDS	885			799		1360	
50 PERCENT EXCEEDS	395			324		364	

90 PERCENT EXCEEDS	268		204		110		
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a Also occurred Apr. 13, 1969.

