

## 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 27 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 1999 TO SEPTEMBER 2000  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	262	248	208	e165	e120	e750	684	471	313	284	502	142
2	258	262	236	e165	e120	e1050	643	450	311	283	420	142
3	248	289	239	e160	e120	e1500	608	427	302	269	361	137
4	240	301	244	e155	e115	2090	575	415	315	252	322	135
5	240	295	236	e150	e115	1630	542	400	340	249	289	132
6	237	288	226	e150	e115	1170	519	380	344	248	268	129
7	234	277	210	e150	e115	960	505	366	338	244	248	e126
8	244	266	205	e145	e115	848	481	364	335	324	232	126
9	242	260	210	e145	e115	803	470	359	328	441	217	121
10	246	267	202	e145	e115	771	456	376	309	536	207	121
11	232	258	200	e150	e115	782	442	420	285	633	202	118
12	229	250	212	e150	e115	856	428	488	263	717	199	114
13	230	242	214	e150	e115	892	419	531	254	795	192	111
14	220	237	238	e149	e115	871	412	543	251	807	180	112
15	221	238	202	e148	e115	816	409	554	240	752	176	108
16	220	235	e190	e147	e115	737	426	565	242	670	178	104
17	226	230	e185	e144	e115	664	444	538	249	583	201	103
18	227	228	e190	e142	e120	605	479	502	259	515	194	100
19	221	233	e195	e138	e125	555	520	461	313	467	183	99
20	215	227	e190	e130	e128	520	565	442	411	430	177	98
21	215	221	e180	e130	e135	499	580	427	451	389	173	98
22	215	227	e170	e125	e155	473	585	408	462	362	171	99
23	215	236	e160	e125	e175	456	590	376	451	338	168	102
24	211	245	e160	e120	e210	467	603	349	430	314	164	100
25	208	246	e165	e120	e255	492	609	329	408	297	155	97
26	209	246	e170	e120	e320	526	594	309	395	294	157	96
27	215	252	e170	e120	e400	594	574	302	369	288	153	99
28	211	253	e170	e120	e450	702	547	311	342	311	149	95
29	204	240	e175	e120	e550	752	513	302	322	458	148	91
30	228	212	e175	e120	---	753	483	293	302	556	143	90
31	243	---	e170	e120	---	723	---	294	---	570	143	---
TOTAL	7066	7509	6097	4318	4993	25307	15705	12752	9934	13676	6672	3345
MEAN	228	250	197	139	172	816	524	411	331	441	215	112
MAX	262	301	244	165	550	2090	684	565	462	807	502	142
MIN	204	212	160	120	115	456	409	293	240	244	143	90
AC-FT	14020	14890	12090	8560	9900	50200	31150	25290	19700	27130	13230	6630
CFSM	.17	.18	.14	.10	.13	.60	.38	.30	.24	.32	.16	.08
IN.	.19	.21	.17	.12	.14	.69	.43	.35	.27	.37	.18	.09

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STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1929 - 2000, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	456	443	324	243	248	624	1529	1100	856	631	411	423
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 1999 CALENDAR YEAR FOR 2000 WATER YEAR WATER YEARS 1929 - 2000

ANNUAL TOTAL		194175		117374								
ANNUAL MEAN		532		321						625		
HIGHEST ANNUAL MEAN										1512		1986
LOWEST ANNUAL MEAN										66.1		1934
HIGHEST DAILY MEAN				5350	May 19		2090	Mar 4	10000		Apr 13	1969
LOWEST DAILY MEAN				103	Mar 9		90	Sep 30	30		Aug 3	1934
ANNUAL SEVEN-DAY MINIMUM				131	Jan 9		95	Sep 24	31		Aug 1	1934
INSTANTANEOUS PEAK FLOW							2170	Mar 4	10100 <sup>a</sup>		Apr 20	1965
INSTANTANEOUS PEAK STAGE							5.26	Mar 4	11.63		Apr 13	1969
INSTANTANEOUS LOW FLOW							88	Sep 29	29		Aug 18	1934
ANNUAL RUNOFF (AC-FT)			385100				232800		452800			
ANNUAL RUNOFF (CFSM)			.39				.24		.46			
ANNUAL RUNOFF (INCHES)			5.31				3.21		6.24			
10 PERCENT EXCEEDS			893				586		1330			
50 PERCENT EXCEEDS			319				244		360			
90 PERCENT EXCEEDS			140				120		111			

<sup>a</sup> Also occurred Apr. 13, 1969.  
<sup>e</sup> Estimated.

