

UPPER MISSISSIPPI RIVER MAIN STEM--Continued

05286000 RUM RIVER NEAR ST. FRANCIS, MN

LOCATION.--Lat 45°19'40", long 93°22'20", in SE $\frac{1}{4}$ 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 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 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, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	142	181	263	e140	e146	193	676	e540	762	813	667	507
2	144	176	255	e145	e144	e186	678	e515	699	837	671	483
3	142	172	249	e142	e142	e180	654	e480	655	860	786	455
4	141	168	246	e140	e134	e180	635	e445	619	855	882	432
5	141	167	252	e140	e138	e180	645	e420	625	823	922	426
6	147	167	262	e140	e138	e160	703	418	661	809	906	412
7	151	167	267	e140	e140	e160	773	468	685	813	820	399
8	150	167	267	e140	e140	e140	845	581	700	818	703	396
9	147	169	266	e128	e140	e103	907	739	703	786	609	387
10	149	204	253	e130	e140	e150	952	873	780	746	549	372
11	143	261	238	e130	e136	e138	995	1070	814	710	513	361
12	143	291	251	e130	e136	e122	1010	1310	781	697	490	365
13	144	277	258	e135	e134	e128	997	1730	734	685	481	354
14	143	267	272	e135	e136	e140	959	2020	691	656	471	347
15	145	268	260	e132	e140	e170	939	2140	657	607	493	338
16	175	270	257	e140	e140	218	923	2500	622	565	664	330
17	213	267	212	e140	e136	238	892	3340	583	527	819	323
18	228	268	211	e140	e132	256	860	4590	547	495	940	312
19	225	273	201	e138	e130	281	842	5350	513	470	1010	319
20	217	279	e150	e138	e136	320	823	5290	488	449	970	311
21	204	275	e125	e150	e150	381	789	4800	465	430	893	304
22	195	267	e120	e150	e160	456	754	4160	457	412	860	293
23	189	283	e130	e145	e170	501	718	3520	547	404	819	283
24	187	288	e140	e140	180	503	e690	2920	585	393	780	271
25	187	298	e150	e133	181	469	e670	2360	703	375	724	260
26	182	297	e155	e135	178	439	e650	1830	826	504	689	264
27	181	284	e160	e140	178	420	e635	1440	950	534	682	259
28	181	275	e155	e140	179	476	e620	1200	942	588	656	249
29	181	268	e145	e140	---	568	e590	1050	894	e677	607	250
30	181	264	e140	e138	---	604	e565	930	823	696	562	257
31	181	---	e140	e138	---	636	---	838	---	691	532	---
TOTAL	5279	7258	6450	4292	4134	9096	23389	59867	20511	19725	22170	10319
MEAN	170	242	208	138	148	293	780	1931	684	636	715	344
MAX	228	298	272	150	181	636	1010	5350	950	860	1010	507
MIN	141	167	120	128	130	103	565	418	457	375	471	249
AC-FT	10470	14400	12790	8510	8200	18040	46390	118700	40680	39120	43970	20470
CFSM	.13	.18	.15	.10	.11	.22	.57	1.42	.50	.47	.53	.25
IN.	.14	.20	.18	.12	.11	.25	.64	1.64	.56	.54	.61	.28

e Estimated

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STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1929 - 1999, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	459	446	326	245	249	621	1543	1109	864	634	414	428
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 1998 CALENDAR YEAR	FOR 1999 WATER YEAR	WATER YEARS 1929 - 1999
ANNUAL TOTAL	143488	192490	
ANNUAL MEAN	393	527	630
HIGHEST ANNUAL MEAN			1512
LOWEST ANNUAL MEAN			66.1
HIGHEST DAILY MEAN	1960	Apr 9	5350
LOWEST DAILY MEAN	120	Dec 22	103
ANNUAL SEVEN-DAY MINIMUM	137	Sep 19	131
INSTANTANEOUS PEAK FLOW			5430
INSTANTANEOUS PEAK STAGE			8.10
INSTANTANEOUS LOW FLOW			72 ^b
ANNUAL RUNOFF (AC-FT)	284600	381800	456100
ANNUAL RUNOFF (CFSM)	.29	.39	.46
ANNUAL RUNOFF (INCHES)	3.92	5.27	6.29
10 PERCENT EXCEEDS	799	893	1350
50 PERCENT EXCEEDS	268	319	363
90 PERCENT EXCEEDS	148	140	110

a Also occurred Apr. 13, 1969.
 b Result of ice jam upstream.

