

## UPPER MISSISSIPPI RIVER MAIN STEM

05200510 MISSISSIPPI RIVER NEAR BEMIDJI, MN

LOCATION.--Lat 47°29'00", long 94°43'40", in SE $\frac{1}{4}$ SW $\frac{1}{4}$  sec. 3, T.146 N., R.32 W., Beltrami County, Hydrologic Unit 07010101, 3.5 mi east of Bemidji on right bank 100 ft upstream of County Highway 12 and 400 ft downstream from Stump Lake dam.

DRAINAGE AREA.--610 mi<sup>2</sup> (approximately).

PERIOD OF RECORD.--September 1987 to current year (no winter records).

GAGE.--Water-stage recorder. Elevation of gage is 1,315 ft above sea level (from topographic map).

REMARKS.--Records good.Flow regulated by Stump Lake dam upstream from station.

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	271	374	295	---	---	---	315	198	770	306	598	684
2	271	367	294	---	---	---	449	194	764	261	579	689
3	272	431	296	---	---	---	532	245	737	270	523	742
4	270	467	---	---	---	---	554	299	719	353	474	781
5	252	454	---	---	---	---	865	436	735	508	483	792
6	214	470	---	---	---	---	942	539	748	678	470	781
7	86	495	---	---	---	---	1050	547	760	773	466	832
8	42	480	---	---	---	---	1030	541	739	743	449	915
9	40	458	---	---	---	---	1040	530	723	747	424	921
10	40	457	---	---	---	---	1050	567	761	734	396	915
11	41	499	---	---	---	---	1070	597	752	717	351	903
12	53	452	---	---	---	308	1090	672	748	700	336	915
13	53	425	---	---	---	308	1100	799	741	688	358	996
14	46	422	---	---	---	307	1100	914	728	676	358	1010
15	46	407	---	---	---	244	1110	1010	800	658	358	989
16	54	396	---	---	---	101	1100	1000	803	700	366	989
17	89	389	---	---	---	91	1090	1010	793	700	366	996
18	116	378	---	---	---	90	1080	1020	786	689	362	989
19	128	405	---	---	---	90	1060	1000	780	679	366	996
20	120	385	---	---	---	91	1060	986	773	679	366	927
21	123	367	---	---	---	91	1000	1070	764	668	369	879
22	132	361	---	---	---	92	968	1080	753	668	373	821
23	174	365	---	---	---	92	961	1100	790	658	453	832
24	203	352	---	---	---	92	941	1080	741	643	537	838
25	209	331	---	---	---	92	913	1070	673	603	551	832
26	225	295	---	---	---	92	756	1050	657	653	673	838
27	358	294	---	---	---	92	528	1030	681	658	694	742
28	367	294	---	---	---	93	482	1000	648	643	679	593
29	357	294	---	---	---	158	449	906	634	638	673	541
30	380	298	---	---	---	242	372	781	536	628	668	428
31	377	---	---	---	---	315	---	728	---	613	673	---
TOTAL	5409	11862	---	---	---	---	26057	23999	22037	19332	14792	25106
MEAN	174	395	---	---	---	---	869	774	735	624	477	837
MAX	380	499	---	---	---	---	1110	1100	803	773	694	1010
MIN	40	294	---	---	---	---	315	194	536	261	336	428
AC-FT	10730	23530	---	---	---	---	51680	47600	43710	38350	29340	49800
CFSM	.29	.65	---	---	---	---	1.42	1.27	1.20	1.02	.78	1.37
IN.	.33	.72	---	---	---	---	1.59	1.46	1.34	1.18	.90	1.53

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STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1987 - 1999, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	178	395	---	---	---	244	424	450	277	319	216	249
MAX	311	395	---	---	---	247	889	774	735	912	477	837
(WY)	1995	1999	---	---	---	1998	1997	1999	1999	1997	1999	1999
MIN	75.5	395	---	---	---	242	148	181	104	62.2	61.9	62.3
(WY)	1991	1999	---	---	---	1996	1992	1992	1988	1988	1989	1990

SUMMARY STATISTICS	FOR 1998 CALENDAR YEAR		FOR 1999 WATER YEAR		WATER YEARS 1987 - 1999	
HIGHEST DAILY MEAN	715	May 23	1110	Apr 15	1320	Jul 14 1997
LOWEST DAILY MEAN	40 <sup>a</sup>	Oct 9, 10	40 <sup>a</sup>	Oct 9, 10	22 <sup>a</sup>	Jul 12 1988
INSTANTANEOUS PEAK FLOW			1240	Apr 5	1820	Jul 11 1997
INSTANTANEOUS PEAK STAGE			5.34	Apr 5	5.98	Jul 11 1997
INSTANTANEOUS LOW FLOW			2.4	Oct 5		

a Minimum observed.

