

## 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, on right bank 100 ft upstream of County Highway 12, 400 ft downstream from Stump Lake dam, and 3.5 mi east of Bemidji .

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

PERIOD OF RECORD.--September 1987 to September 2002 (no winter records). December 2003 to current year (some winter record available upon request).

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 2003 TO SEPTEMBER 2004  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	129	144	337	114	123	123	63
2	---	---	---	---	---	148	246	330	118	122	120	64
3	---	---	---	---	---	102	246	325	120	124	e116	68
4	---	---	---	---	---	96	249	325	122	126	e116	67
5	---	---	---	---	---	96	318	319	125	125	e116	75
6	---	---	---	---	---	96	377	317	128	126	95	74
7	---	---	---	---	---	98	380	311	131	166	58	73
8	---	---	213	---	---	98	381	309	134	193	60	76
9	---	---	168	---	---	158	381	308	137	189	60	87
10	---	---	149	---	---	225	381	308	139	188	84	85
11	---	---	153	---	---	210	381	302	141	191	104	84
12	---	---	145	---	---	210	381	308	145	190	95	82
13	---	---	136	---	---	208	381	311	145	189	94	81
14	---	---	135	---	---	211	e379	308	142	186	95	81
15	---	---	135	---	---	201	377	306	141	183	91	84
16	---	---	137	---	---	148	326	304	143	181	91	89
17	---	---	137	---	---	219	298	308	135	181	91	88
18	---	---	136	---	---	219	300	308	136	181	88	88
19	---	---	135	---	---	219	325	307	135	178	84	94
20	---	---	135	---	---	221	355	308	135	178	82	192
21	---	---	135	---	---	220	354	308	134	175	81	238
22	---	---	133	---	---	192	354	310	133	174	80	236
23	---	---	133	---	---	155	353	311	129	172	69	306
24	---	---	133	---	---	144	348	303	130	171	57	337
25	---	---	133	---	---	137	348	185	129	169	64	332
26	---	---	133	---	---	139	347	100	128	149	65	328
27	---	---	127	---	---	140	347	102	128	120	65	386
28	---	---	140	---	---	140	347	104	128	123	64	407
29	---	---	117	---	---	142	345	104	127	124	63	403
30	---	---	104	---	---	142	340	107	125	124	65	402
31	---	---	109	---	---	142	---	111	---	124	64	---
TOTAL	---	---	---	---	---	5,005	10,089	8,304	3,957	4,945	2,600	5,070
MEAN	---	---	---	---	---	161	336	268	132	160	83.9	169
MAX	---	---	---	---	225	381	337	145	193	123	407	
MIN	---	---	---	---	96	144	100	114	120	57	63	
AC-FT	---	---	---	---	---	9,930	20,010	16,470	7,850	9,810	5,160	10,060
CFSM	---	---	---	---	---	0.26	0.55	0.44	0.22	0.26	0.14	0.28
IN.	---	---	---	---	---	0.31	0.62	0.51	0.24	0.30	0.16	0.31

## STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1987 - 2004, BY WATER YEAR (WY)

MEAN	233	469	330	---	---	213	429	452	317	333	212	257
MAX	471	790	406	---	---	247	889	858	866	912	477	837
(WY)	(2000)	(2001)	(2001)	---	---	(1998)	(1997)	(2001)	(2001)	(1997)	(1999)	(1999)
MIN	75.5	322	254	---	---	161	148	181	104	62.2	61.9	62.3
(WY)	(1991)	(2000)	(2000)	---	---	(2004)	(1992)	(1992)	(1988)	(1988)	(1989)	(1990)

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SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR	FOR 2004 WATER YEAR	WATER YEARS 1987 - 2004	
HIGHEST DAILY MEAN	213 Dec 8	407 Sep 28	1,320	Jul 14, 1997
LOWEST DAILY MEAN	104 Dec 30	a57 Aug 24	a22	Jul 12, 1988
ANNUAL SEVEN-DAY MINIMUM	123 Dec 25	63 Aug 24	24	Jul 7, 1988
MAXIMUM PEAK FLOW		496 Sep 27	1,820	Jul 11, 1997
MAXIMUM PEAK STAGE		4.00 Sep 27	5.98	Jul 11, 1997
INSTANTANEOUS LOW FLOW		a51 Aug 24		

a Minimum recorded.  
e Estimated.

