

UPPER MISSISSIPPI RIVER MAIN STEM--Continued

05331580 MISSISSIPPI RIVER BELOW LOCK AND DAM 2, AT HASTINGS, MN

LOCATION.--Lat 44°44'48", long 92°51'08", SE $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 21, T.115 N., R.17 W., Dakota County, Hydrologic Unit 07010206, near bridge on U.S. Highway 61 in Hastings, 1.2 mi downstream from Lock and Dam 2, 2.5 mi upstream from St. Croix River, and at mile 813.8 upstream from Ohio River.

DRAINAGE AREA.--37,050 mi².

PERIOD OF RECORD.--October 1996 to current year.

REMARKS.-- Records fair to poor. Water-discharge computed on the basis of routed discharge for Mississippi River at St. Paul (station 05331000) adjusted for inflow (including metropolitan wastewater treatment plant) and travel time.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5840	7560	8660	7050	6760	6900	10500	22700	15500	44900	18600	20800
2	5340	7930	8580	7440	6590	6980	12900	21800	14400	43400	18900	19900
3	5620	7330	9160	7440	6450	6750	15100	21500	14500	41500	18400	18800
4	5600	7400	9690	7490	6600	6620	16200	22200	14900	39600	18100	19500
5	5200	7130	10100	7620	6320	6600	16300	21800	16000	36300	17900	19900
6	5140	6920	10400	7720	6390	6660	16400	21500	19200	32600	23000	19000
7	5110	7310	9950	7870	6440	6580	16200	21600	21900	30000	24500	18200
8	5150	6930	10600	7940	6380	6510	17100	21100	23000	28300	24600	21000
9	4880	7110	10700	8080	6150	6570	17900	20400	22700	25800	25400	22600
10	4850	7000	10800	8190	6160	6480	18900	21000	21300	24600	25900	21300
11	5320	6800	9980	8250	6120	6450	19900	23700	19000	27800	25900	20200
12	5520	6240	9850	8350	6040	6300	20800	23800	18000	32700	25000	20400
13	5480	6720	10300	8320	5980	6580	23700	25200	16100	35100	23800	20200
14	5670	6800	10700	8250	5980	6820	25600	26800	15600	36400	22300	19400
15	6010	7030	10800	8220	5980	6880	27300	27800	15900	34800	20600	18400
16	6070	7680	9990	8260	5970	6700	29900	28500	16800	33800	19400	18400
17	6730	7250	10300	8180	5980	6360	32300	29200	16700	33100	18200	17500
18	6910	6790	10300	8100	5970	6440	33400	29400	16100	31800	17400	16900
19	7080	7170	10200	7700	6000	6900	33900	29000	14700	30800	17000	16000
20	7070	6870	10900	7590	6160	7290	33300	28500	13400	30800	17000	14900
21	7530	7230	11200	7420	6220	7450	32300	27300	12700	29000	17100	14600
22	7200	6800	9540	7570	6330	7710	31100	26200	14200	27700	16900	13200
23	7270	6460	8740	7560	6450	7770	30200	24600	17400	25800	18500	12500
24	7290	7020	8450	7400	6510	7700	28800	22600	22100	24000	20300	11600
25	7170	6960	8110	7140	6640	7700	27400	21300	25700	22600	21400	11400
26	7480	7180	7060	7060	6840	7910	26100	19600	33500	20600	22300	10600
27	8060	7700	6870	7020	6910	7760	25000	18300	35900	20300	24000	10500
28	7470	7800	6800	6800	6880	7690	24200	17500	39500	19100	25400	10800
29	6890	8420	6610	6860	---	7520	24100	16600	43100	18300	24100	10200
30	6990	8670	6640	6890	---	7840	23800	15500	44700	19100	22800	10000
31	7700	---	6690	6830	---	8920	---	14800	---	18900	21300	---
TOTAL	195640	216210	288670	236610	177200	219340	710600	711800	634500	919500	656000	498700
MEAN	6311	7207	9312	7633	6329	7075	23690	22960	21150	29660	21160	16620
MAX	8060	8670	11200	8350	6910	8920	33900	29400	44700	44900	25900	22600
MIN	4850	6240	6610	6800	5970	6300	10500	14800	12700	18300	16900	10000
AC-FT	388100	428900	572600	469300	351500	435100	1409000	1412000	1259000	1824000	1301000	989200
CFSM	0.17	0.19	0.25	0.21	0.17	0.19	0.64	0.62	0.57	0.80	0.57	0.45
IN.	0.20	0.22	0.29	0.24	0.18	0.22	0.71	0.71	0.64	0.92	0.66	0.50

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STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1996 - 2002, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	10490	13270	10320	7784	7796	13910	49360	36440	27730	23670	13390	8992
MAX	25600	24960	13290	9657	10040	20360	95650	76140	52600	36910	23560	16620
(WY)	1996	1996	1997	1996	1998	1998	2001	2001	2001	1997	1997	2002
MIN	4661	7207	6912	6022	5588	6436	10400	14070	16100	15970	6460	4369
(WY)	2001	2002	2000	2000	2000	2001	2000	2000	1997	2000	2000	2000

SUMMARY STATISTICS	FOR 2001 CALENDAR YEAR	FOR 2002 WATER YEAR	WATER YEARS 1996 - 2002
ANNUAL TOTAL	9135910	5464770	
ANNUAL MEAN	25030	14970	
HIGHEST ANNUAL MEAN			18610
LOWEST ANNUAL MEAN			25040
HIGHEST DAILY MEAN	147000	44900	10310
LOWEST DAILY MEAN	4850	4850	3650
ANNUAL SEVEN-DAY MINIMUM	5090	5090	3900
ANNUAL RUNOFF (AC-FT)	18120000	10840000	13480000
ANNUAL RUNOFF (CFSM)	0.67	0.40	0.50
ANNUAL RUNOFF (INCHES)	9.16	5.48	6.81
10 PERCENT EXCEEDS	71000	28400	38500
50 PERCENT EXCEEDS	7480	10700	11700
90 PERCENT EXCEEDS	5810	6420	5920

