

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 except those for estimated daily discharge, which are 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 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4050	5470	10400	e6240	e6010	e5740	9890	146000	54900	44500	e13500	6460
2	3810	6650	11000	e6220	e6080	e5660	10900	141000	54500	39400	e12800	6760
3	3890	7460	10900	e6250	e5990	e5730	11900	134000	53400	35500	e12300	6150
4	4260	7970	9870	e6310	e5860	e5810	15300	123000	51900	31800	11800	6120
5	3980	7930	8710	e6410	e5870	e5840	20500	113000	49500	29400	11300	6260
6	3740	8500	10000	e6550	e6000	e5820	25400	103000	47800	27600	10800	6170
7	4200	8910	8130	e6660	e6150	e5800	27900	97400	44700	25100	10800	6240
8	4080	10000	e7410	e6720	e6210	e5820	36300	92300	42000	23600	10000	5940
9	4220	10900	e6320	e6680	e6190	e5840	46000	87100	39500	22400	9920	6070
10	4320	11400	e6420	e6590	e6120	e5840	62800	82600	37700	21300	9630	6370
11	4220	12300	e6800	e6460	e6060	e5500	78000	80000	36900	20700	9470	6470
12	4180	12700	e6500	e6430	e6060	e5700	93500	76900	37100	18900	8810	6070
13	4130	13200	e5700	e6670	e6060	e5800	104000	74400	36400	17100	8500	5960
14	4280	13500	e6090	e6760	e6040	e5890	116000	71600	39900	15800	8230	5730
15	4280	14300	e6390	e6880	e6010	e5750	128000	68900	40200	15100	8110	5470
16	4320	14400	e6500	e6910	e6020	e6090	138000	66200	44500	14700	7880	5550
17	4520	14600	e6530	e6890	e5990	e6220	142000	63300	50000	14400	7720	5200
18	4380	14700	e6590	e6740	e5940	e6390	144000	60100	53900	13500	7810	5290
19	4370	14500	e6660	e6590	e5910	e6400	147000	57000	58400	14100	7760	5490
20	4310	14100	e6750	e6480	e5920	e6500	146000	54300	61300	14200	8100	5190
21	4850	13600	e6800	e6380	e5910	e6760	143000	51800	65600	12800	7620	5520
22	5030	13200	e6780	e6200	e6100	e6870	138000	50900	70400	12500	7280	5230
23	5340	12000	e6730	e6130	e5880	e6920	134000	49900	73000	13000	7270	5800
24	5410	10800	e6640	e6220	e5920	e7100	130000	49200	72900	13100	7240	5650
25	5710	9870	e6560	e6350	e6030	e7240	130000	48000	70600	14000	7340	5620
26	5480	9750	e6420	e6250	e6020	e7010	132000	49700	67200	14700	6970	5810
27	5910	10200	e6410	e6350	e6010	e7610	133000	51800	62700	15400	6800	5260
28	5940	10700	e6390	e6130	e5910	e7400	136000	53400	58500	16000	6560	5210
29	5730	10800	e6320	e6020	---	e7670	143000	54200	53700	14800	6350	5480
30	5760	10300	e6290	e6250	---	e8070	147000	54600	48800	14900	6170	5960
31	5800	---	e6270	e6040	---	e8720	---	54800	---	14500	6020	---
TOTAL	144500	334710	225280	199760	168270	199510	2869390	2360400	1577900	614800	270860	174500
MEAN	4661	11160	7267	6444	6010	6436	95650	76140	52600	19830	8737	5817
MAX	5940	14700	11000	6910	6210	8720	147000	146000	73000	44500	13500	6760
MIN	3740	5470	5700	6020	5860	5500	9890	48000	36400	12500	6020	5190
AC-FT	286600	663900	446800	396200	333800	395700	5691000	4682000	3130000	1219000	537300	346100
CFSM	.13	.30	.20	.17	.16	.17	2.58	2.05	1.42	.53	.24	.16
IN.	.14	.34	.23	.20	.17	.20	2.88	2.37	1.58	.62	.27	.17

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

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1996 - 2001, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	11190	14280	10490	7809	8038	15050	53640	38690	28830	22670	12090	7720
MAX	25600	24960	13290	9657	10040	20360	95650	76140	52600	36910	23560	13820
(WY)	1996	1996	1997	1996	1998	1998	2001	2001	2001	1997	1997	1999
MIN	4661	9423	6912	6022	5588	6436	10400	14070	16100	15970	6460	4369
(WY)	2001	2000	2000	2000	2000	2001	2000	2000	1997	2000	2000	2000

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR	FOR 2001 WATER YEAR	WATER YEARS 1996 - 2001
ANNUAL TOTAL	3634550	9139880	
ANNUAL MEAN	9930	25040	19210
HIGHEST ANNUAL MEAN			25040
LOWEST ANNUAL MEAN			10310
HIGHEST DAILY MEAN	25700	Jul 18	147000
LOWEST DAILY MEAN	3650	Sep 25	3740
ANNUAL SEVEN-DAY MINIMUM	3900	Sep 23	3990
ANNUAL RUNOFF (AC-FT)	7209000		18130000
ANNUAL RUNOFF (CFSM)	.27		.67
ANNUAL RUNOFF (INCHES)	3.64		9.16
10 PERCENT EXCEEDS	17700		71000
50 PERCENT EXCEEDS	8450		7410
90 PERCENT EXCEEDS	4490		5510
			13920000
			.52
			7.04
			40700
			11800
			5830

e Estimated

