

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 considered fair. Water-discharge computed on the basis of routed discharge for Mississippi River at St. Paul (station 05331000) adjusted for inflow and travel time.

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	4290	15600	16100	9070	8000	10100	18300	34700	45100	23300	20300	14300
2	3980	17000	16000	9040	8090	10000	18600	32900	41800	23100	19600	14800
3	4210	17000	15900	8970	8100	9990	19000	30100	38400	23600	18700	14200
4	4480	17400	16100	8990	8120	10100	19500	27200	35600	22900	17400	14600
5	4100	16400	16400	8820	8080	9950	19700	24200	34700	23300	16300	14100
6	4210	15800	16000	8740	7690	10500	20900	23300	33800	25100	16100	13800
7	4430	14800	16200	8570	8430	10700	20900	22500	32200	26000	15900	14100
8	4900	14600	16400	8410	8150	11000	23000	22100	30300	26000	15600	14300
9	4600	14100	16300	8260	8190	11200	26700	22200	30000	25000	15000	14800
10	5020	13700	16200	8110	8360	11100	31100	22700	30300	23900	14600	15200
11	4580	13300	15300	8000	8210	10900	34100	23700	30500	24000	14000	15000
12	5260	13900	15600	7860	8350	10700	37600	29900	32900	23100	14000	15100
13	5140	14400	15100	7590	8300	11000	39800	35900	33200	21700	14800	14800
14	5570	15200	15100	7580	8190	11100	41000	41800	33400	21100	13800	14900
15	5630	15300	15100	7360	9210	10800	42000	47000	34300	19900	15000	14900
16	5460	16500	14800	7370	9390	11000	43700	51100	34800	19700	14900	15200
17	5950	15800	15100	7380	8940	10800	45500	54600	35000	19300	15200	14800
18	6640	16100	14600	7370	9590	10800	46700	58600	35700	18700	16300	15100
19	6940	16100	14500	7380	10500	12000	47100	60500	35700	18600	16900	14700
20	8380	15500	13500	7470	11100	14800	48000	62500	35100	18600	17000	14400
21	10600	15800	12200	7470	11400	16500	47800	64100	34800	19100	17200	14000
22	13900	16000	10100	7460	11200	17600	47200	64200	33500	19400	16300	13700
23	15200	15100	8070	7470	10900	18600	46500	63100	31400	20900	16200	12700
24	17200	15100	7120	7450	11100	19200	45300	61800	31100	22500	17800	12400
25	16600	15900	7930	7670	11000	19400	44100	60200	31600	24000	17000	12100
26	16500	15400	8220	7690	10600	18900	42400	58400	25500	25200	16800	11700
27	16100	16000	8590	7810	10300	18300	40700	56600	24600	25600	17000	11200
28	16200	16500	8710	7810	10200	17600	38500	55100	23600	26800	16600	11200
29	16600	15800	8990	7870	---	16900	37400	53200	23400	25200	16000	10900
30	15500	16000	9230	7880	---	17300	35900	51100	23200	23100	15600	11500
31	15200	---	9280	8000	---	17800	---	48600	---	21500	15200	---
TOTAL	273370	466100	408740	246920	259690	416640	1069000	1363900	975500	700200	503100	414500
MEAN	8818	15540	13190	7965	9275	13440	35630	44000	32520	22590	16230	13820
MAX	17200	17400	16400	9070	11400	19400	48000	64200	45100	26800	20300	15200
MIN	3980	13300	7120	7360	7690	9950	18300	22100	23200	18600	13800	10900
AC-FT	542200	924500	810700	489800	515100	826400	2120000	2705000	1935000	1389000	997900	822200
CFSM	.24	.42	.36	.21	.25	.36	.96	1.19	.88	.61	.44	.37
IN.	.27	.47	.41	.25	.26	.42	1.07	1.37	.98	.70	.50	.42

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STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1996 - 1999, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	12820	16270	12190	8597	9169	17360	53940	35480	25440	25050	14340	9033
MAX	25600	24960	13290	9657	10040	20360	93250	44000	32520	36910	23560	13820
(WY)	1996	1996	1997	1996	1998	1998	1997	1999	1999	1997	1997	1999
MIN	6771	10400	9937	7509	8476	13440	35630	19660	16100	16490	8121	5247
(WY)	1997	1998	1998	1998	1996	1999	1999	1998	1997	1996	1998	1998

SUMMARY STATISTICS	FOR 1998 CALENDAR YEAR	FOR 1999 WATER YEAR	WATER YEARS 1996 - 1999
ANNUAL TOTAL	5975460	7097660	
ANNUAL MEAN	16370	19450	19990
HIGHEST ANNUAL MEAN			24330
LOWEST ANNUAL MEAN			15780
HIGHEST DAILY MEAN	56100	Apr 10	64200
LOWEST DAILY MEAN	3980	Oct 2	3980
ANNUAL SEVEN-DAY MINIMUM	4240	Oct 1	4240
ANNUAL RUNOFF (AC-FT)	11850000		14080000
ANNUAL RUNOFF (CFSM)	.44		.52
ANNUAL RUNOFF (INCHES)	5.99		7.12
10 PERCENT EXCEEDS	31500		38400
50 PERCENT EXCEEDS	15200		15800
90 PERCENT EXCEEDS	5740		7810

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