

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

LOCATION.--Lat 44°44'48", long 92°51'08", SE¹/₄SE¹/₄ 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 (including metropolitan wastewater treatment plant) and travel time.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	11600	10400	8870	6810	5440	13300	12200	9330	14200	15900	9330	5030
2	11700	10400	8630	6870	5420	15000	12200	8720	14800	15200	8810	4470
3	12200	10100	8400	6930	5400	17400	11200	8740	15300	13900	8420	5210
4	12200	10300	8420	6920	5370	18700	11300	8480	18300	13200	8240	4650
5	12400	9990	8900	6800	5310	18900	11400	8000	21600	13300	7830	4660
6	11800	10100	9000	6790	5330	19500	10900	8750	23100	12800	7200	4330
7	11700	10100	8840	6570	5340	18100	10800	8200	24500	12500	6920	4680
8	11800	9930	8620	6550	5290	16900	10900	8070	25300	12900	6650	4500
9	11500	9800	8460	6460	5280	16600	10300	8300	25400	13100	6570	4610
10	11200	9590	8440	6370	5290	15800	10500	8640	25400	13800	6290	4640
11	11500	9620	8290	6290	5300	15800	10900	9080	24300	15700	6120	4700
12	11500	9600	7840	6160	5280	16200	11100	10300	22000	17800	5810	4580
13	11700	9540	7820	6060	5230	16200	10700	12000	19200	19300	5800	5360
14	11500	9380	8190	5960	5240	16400	10100	13400	16300	20900	5540	4760
15	11600	9140	7630	5860	5260	16300	9950	13800	15100	23500	5840	3760
16	11200	9300	7470	5860	5210	15000	10100	15000	14400	24900	6030	4510
17	11100	9230	7820	5850	5220	14500	10300	15200	13900	25300	5890	4290
18	11200	8800	7030	5760	5230	13900	10100	15600	14600	25700	5580	4430
19	10700	8680	6280	5750	5220	13300	9320	15400	15200	24100	5420	4350
20	10800	8660	5400	5620	5270	12400	9540	15300	17000	21500	6720	4090
21	10800	9110	4600	5640	5330	11400	9050	15400	17900	18700	6370	4030
22	10800	8840	4080	5640	5370	11600	9800	20700	19400	16600	6210	4090
23	10900	8770	3850	5520	5380	11600	9650	23400	19000	15200	6280	3880
24	10300	9020	3920	5510	5540	11200	9910	23400	18700	13900	6270	4030
25	10400	9120	4060	5480	5680	10800	9920	24300	18100	12400	6250	3650
26	10700	9250	4450	5460	5920	11000	9950	23600	17700	11500	6400	4220
27	10700	8870	4790	5440	6380	11300	10100	21000	17600	10700	5940	3890
28	10900	8920	5340	5440	7380	11700	10000	18300	17300	10700	5780	3780
29	10200	9020	5880	5450	9140	12400	9960	16100	16600	10400	5820	3860
30	10400	9100	6280	5430	---	12300	9820	15300	16000	10100	5180	4040
31	10300	---	6670	5440	---	12900	---	14500	---	9600	4750	---
TOTAL	347300	282680	214270	186690	162050	448400	311970	436310	558200	495100	200260	131080
MEAN	11200	9423	6912	6022	5588	14460	10400	14070	18610	15970	6460	4369
MAX	12400	10400	9000	6930	9140	19500	12200	24300	25400	25700	9330	5360
MIN	10200	8660	3850	5430	5210	10800	9050	8000	13900	9600	4750	3650
AC-FT	688900	560700	425000	370300	321400	889400	618800	865400	1107000	982000	397200	260000
CFSM	.30	.25	.19	.16	.15	.39	.28	.38	.50	.43	.17	.12
IN.	.35	.28	.21	.19	.16	.45	.31	.44	.56	.50	.20	.13

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STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1996 - 2000, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	12500	14900	11130	8082	8438	16780	45230	31200	24070	23240	12760	8100
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	9423	6912	6022	5588	13440	10400	14070	16100	15970	6460	4369
(WY)	1997	2000	2000	2000	2000	1999	2000	2000	1997	2000	2000	2000

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1996 - 2000	
ANNUAL TOTAL	6793700		3774310			
ANNUAL MEAN	18610		10310		18050	
HIGHEST ANNUAL MEAN					24330	
LOWEST ANNUAL MEAN					10310	
HIGHEST DAILY MEAN	64200		May 22		25700	
LOWEST DAILY MEAN	3850		Dec 23		3650	
ANNUAL SEVEN-DAY MINIMUM	4250		Dec 21		3900	
ANNUAL RUNOFF (AC-FT)	13480000		7486000		13080000	
ANNUAL RUNOFF (CFSM)	.50		.28		.49	
ANNUAL RUNOFF (INCHES)	6.81		3.78		6.61	
10 PERCENT EXCEEDS	38400		17700		37100	
50 PERCENT EXCEEDS	14000		9540		12500	
90 PERCENT EXCEEDS	7850		5140		6140	

