

# UPPER MISSISSIPPI RIVER MAIN STEM

## 05355250 MISSISSIPPI RIVER AT RED WING, MN

LOCATION.--Lat 4434'13", long 9232'02", in NE 1 / 4 NE 1 / 4 sec. 30, T.113 N., R.14 W., Goodhue County, Hydrologic Unit 07040001, at bridge on U.S. Highway 63 in Red Wing, 6.3 mi downstream from Lock and Dam 3, and at mile 790.6 upstream from Ohio River.

DRAINAGE AREA.--46,800 mi<sup>2</sup>, approximately.

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

REMARKS.-- Records considered fair. Water-discharge computed on the basis of discharge for Mississippi River at Prescott, WI (station 05344500) combined with Cannon River at Welch (station 05355200) and adjusted for inflow.

## DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

### DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	14300	14200	15400	11100	11100	36500	42700	30400	23700	53200	15800	9
2	13600	15700	15600	12300	11200	39800	51200	29500	24500	52200	14800	9
3	14000	16600	15500	10100	11500	43400	56300	28400	24200	51700	14800	9
4	13500	15700	15400	11000	10900	44500	62200	27300	24300	50600	14400	9
5	13500	16200	15400	10700	11100	44100	66900	26200	23800	49200	14100	9
6	13100	17300	15800	11400	10700	43300	71400	25400	24300	46300	13700	9
7	12700	16700	15300	10300	10900	42300	74000	24900	23900	43400	14000	8
8	12400	16600	14400	11100	11100	39600	75900	24600	23000	40300	12500	8
9	12300	16200	14200	10800	10600	38100	75100	23600	22800	37300	11600	8
10	12100	16100	14400	10800	10900	37200	73900	22500	22200	35500	12400	8
11	11900	16300	14600	11200	11200	34800	72400	23500	21300	34500	12700	8
12	12600	16500	14200	10900	10900	32400	70700	23100	20400	31600	12700	8
13	12200	16600	14600	10200	10900	27200	68400	22100	19200	30000	12100	7
14	12600	16500	14700	9210	10900	25000	67400	21500	18500	28600	11500	7

15	14000	16400	13800	9490	10700	23800	64600	21600	18800	26400	11000	7
16	15100	16300	13800	10000	11000	22200	61700	21300	21400	24900	10400	7
17	16400	16000	14100	10400	10900	22000	58600	22500	21900	24600	10100	6
18	17100	15100	14400	10600	11100	22800	55400	21900	22300	25200	10100	7
19	17300	13500	13900	11100	12100	23300	53000	23200	22800	25100	10100	7
20	17600	13100	14400	11100	12900	23400	51100	25700	24400	24600	9680	6
21	17800	13600	13800	11200	14300	22600	48600	27600	25000	23500	10100	6
22	18000	13100	14000	11300	15700	21800	46700	29300	26700	24100	10900	7
23	19100	13800	13400	11400	16600	20800	44000	29000	29400	23600	10000	7
24	16900	14300	12100	11400	19800	19900	42400	27900	32000	22500	11200	7
25	17000	14400	12700	11400	22300	19300	40500	25600	33600	22000	11400	7
26	17400	13700	13300	10900	25400	19600	38500	24900	37400	21100	10900	6
27	16800	12700	13100	11400	29000	19800	37200	23700	39600	19900	11200	7
28	16600	13300	12000	11000	32400	20000	35000	23300	54100	19100	11100	7
29	16400	14000	11800	11200	---	22100	33500	23500	60500	18200	11000	7
30	16000	15500	10900	11100	---	25800	32300	23800	54200	17300	10400	7
31	15800	---	11100	11000	---	33200	---	23800	---	16600	10000	-
TOTAL	466100	456000	432100	337100	398100	910600	1671600	771600	840200	963100	366680	2
MEAN	15040	15200	13940	10870	14220	29370	55720	24890	28010	31070	11830	8
MAX	19100	17300	15800	12300	32400	44500	75900	30400	60500	53200	15800	9
MIN	11900	12700	10900	9210	10600	19300	32300	21300	18500	16600	9680	6
AC-FT	924500	904500	857100	668600	789600	1806000	3316000	1530000	1667000	1910000	727300	4
CFSM	482	487	447	349	456	941	1790	798	898	996	379	2
IN.	555.73	543.69	515.20	401.93	474.66	1085.72	1993.06	919.98	1001.78	1148.31	437.20	2

## STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1996 - 1998, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	19580	23450	16980	12540	13470	26660	76100	37610	27990	31600	18600	12020

MAX	32250	31520	19660	14200	14220	29370	110300	47340	35790	39380	29900	17820
(WY)	1996	1996	1997	1997	1998	1998	1997	1996	1996	1997	1997	1997
MIN	11440	15200	13940	10870	12770	23600	55720	24890	20170	24350	11830	8026
(WY)	1997	1998	1998	1998	1996	1996	1998	1998	1997	1996	1998	1998

<b>SUMMARY STATISTICS</b>	<b>FOR 1997 CALENDAR YEAR</b>		<b>FOR 1998 WATER YEAR</b>		<b>WATER YEARS 1996 - 1998</b>		
ANNUAL TOTAL	10862200		7853960				
ANNUAL MEAN	29760		21520		26080		
HIGHEST ANNUAL MEAN					30630		1997
LOWEST ANNUAL MEAN					21520		1998
HIGHEST DAILY MEAN	163000	Apr 12	75900	Apr 8	163000	Apr 12	1997
LOWEST DAILY MEAN	10900	Dec 30	6760	Sep 21	3100	Feb 17	1996
ANNUAL SEVEN-DAY MINIMUM	12100	Dec 25	7140	Sep 20	7140	Sep 20	1998
ANNUAL RUNOFF (AC-FT)	21550000		15580000		18890000		
ANNUAL RUNOFF (CFSM)	954		690		836		
ANNUAL RUNOFF (INCHES)	12951.08		9364.34		11355.47		
10 PERCENT EXCEEDS	53400		42900		48400		
50 PERCENT EXCEEDS	17100		16200		19900		
90 PERCENT EXCEEDS	13300		10100		11000		

