

# UPPER MISSISSIPPI RIVER MAIN STEM

## 05276005 NORTH FORK CROW RIVER ABOVE PAYNESVILLE, MN

LOCATION.--Lat. 45 o 22'38", long 94 o47 '00", in SW 1 / 4 NW 1 / 4 sec. 13, T. 122 N., R. 33 W., Kandiyohi County, Hydrologic Unit 07010204, on left bank at downstream end of bridge on County Highway 6, 0.8 mile south of State Highway 55, 1 mile west of Kandiyohi/Stearns County line, and 2.5 miles west of Paynesville.

DRAINAGE AREA.-- 232 mi 2 .

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

GAGE.-- Water-stage recorder. Elevation of gage is 1190 ft above sea level (from topographic map).

REMARKS.-- Records good except those for estimated daily discharges, which are fair.

## 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	32	47	41	e22	24	225	216	74	121	207	44	38
2	30	50	41	e22	24	213	251	83	100	154	42	35
3	29	47	42	e22	e24	198	320	88	84	129	42	32
4	28	49	41	e22	e25	175	368	83	74	114	41	30
5	27	47	34	e21	25	153	399	76	67	115	39	28
6	25	47	e34	e21	25	141	409	69	62	158	37	26
7	25	49	e34	e21	26	124	413	65	58	180	38	24
8	24	52	e34	e21	26	114	433	87	54	166	40	22
9	27	54	e34	e21	26	74	396	121	51	137	37	21
10	28	53	e34	e21	26	61	366	127	51	120	34	19
11	29	49	e35	e21	26	e52	347	134	51	107	31	18
12	38	35	34	e21	26	e48	317	155	67	97	29	17
13	76	44	32	e21	26	e46	283	176	72	88	27	17

14	79	49	34	e21	26	e48	248	167	64	83	25	20
15	81	e34	33	e20	26	e51	219	152	60	109	23	27
16	80	e34	33	e20	27	56	195	152	90	142	22	27
17	71	e34	32	e20	32	56	170	150	99	151	20	25
18	67	e34	e32	e20	42	53	153	144	110	144	19	22
19	61	e34	e32	e20	70	52	139	136	217	146	23	20
20	55	e34	e31	e20	110	58	130	123	323	155	32	20
21	51	e35	e30	e20	133	61	122	114	468	171	26	18
22	48	e35	e30	e21	159	62	113	103	510	157	72	18
23	46	36	e29	e21	238	63	107	92	432	121	105	18
24	45	37	28	e21	e289	61	101	89	352	101	94	18
25	45	37	28	e21	e324	63	96	99	292	87	78	19
26	42	40	26	21	289	77	94	95	235	78	65	20
27	40	41	25	21	248	106	88	84	263	70	61	21
28	40	43	24	21	234	135	83	74	271	63	59	20
29	40	43	e24	22	---	155	79	66	281	56	54	18
30	40	41	e23	23	---	180	76	67	261	52	47	18
31	43	---	e23	24	---	194	---	102	---	49	42	---
TOTAL	1392	1264	987	654	2576	3155	6731	3347	5240	3707	1348	676
MEAN	44.9	42.1	31.8	21.1	92.0	102	224	108	175	120	43.5	22.5
MAX	81	54	42	24	324	225	433	176	510	207	105	38
MIN	24	34	23	20	24	46	76	65	51	49	19	17
AC-FT	2760	2510	1960	1300	5110	6260	13350	6640	10390	7350	2670	1340
CFSM	.19	.18	.14	.09	.40	.44	.97	.47	.75	.52	.19	.10
IN.	.22	.20	.16	.10	.41	.51	1.08	.54	.84	.59	.22	.11

**e Estimated**

## **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	33.8	45.3	29.9	20.4	56.0	74.0	535	157	100	120	42.5	28.8
MAX	44.9	48.5	31.8	21.1	92.0	102	846	265	175	213	75.9	59.3
(WY)	1998	1997	1998	1998	1998	1998	1997	1996	1998	1997	1997	1997
MIN	22.6	42.1	27.9	19.7	20.0	46.1	224	98.0	39.0	27.1	8.25	4.68
(WY)	1997	1998	1997	1997	1997	1997	1998	1997	1997	1996	1996	1996

SUMMARY STATISTICS	FOR 1997 CALENDAR YEAR		FOR 1998 WATER YEAR		WATER YEARS 1996 - 1998		
ANNUAL TOTAL	46565		31077				
ANNUAL MEAN	128		85.1		106		
HIGHEST ANNUAL MEAN					126		1997
LOWEST ANNUAL MEAN					85.1		1998
HIGHEST DAILY MEAN	2090	Apr 6	510	Jun 22	2090	Apr 6	1997
LOWEST DAILY MEAN	15	Jun 27	17	Sep 12	2.4	Sep 15	1996
ANNUAL SEVEN-DAY MINIMUM	17	Jun 22	19	Sep 19	2.6	Sep 13	1996
INSTANTANEOUS PEAK FLOW			528	Jun 22	2150	Apr 6	1997
INSTANTANEOUS PEAK STAGE			10.51	Jun 22	14.34	Apr 6	1997
INSTANTANEOUS LOW FLOW			14a	Mar 10	2.0	Sep 1	1996
ANNUAL RUNOFF (AC-FT)	92360		61640		76440		
ANNUAL RUNOFF (CFSM)	.55		.37		.45		
ANNUAL RUNOFF (INCHES)	7.47		4.98		6.18		
10 PERCENT EXCEEDS	241		202		239		
50 PERCENT EXCEEDS	45		49		44		
90 PERCENT EXCEEDS	19		21		18		

**a Result of freezeup.**

