

UPPER MISSISSIPPI RIVER MAIN STEM--Continued

05244000 CROW WING RIVER AT NIMROD, MN

LOCATION.--Lat 46°38'25", long 94°52'44", in SE¹/₄NW¹/₄ sec. 32, T. 137 N., R. 33 W., Wadena County, Hydrologic Unit 07010106, on right bank 200 ft upstream from County Highway 227 bridge, 0.2 mi north of Nimrod, and 0.7 mi upstream from Cat River.

DRAINAGE AREA.--1,030 mi².

PERIOD OF RECORD.--April 1910 to September 1914, July 1930 to September 1981, October 1991 to current year (winter records incomplete prior to 1940). October 1981 to September 1987, annual maximums only.

REVISED RECORDS.--WSP 1508: 1910-11, 1913-14, 1937, 1942(M), 1944(M).

GAGE.--Water-stage recorder. Datum of gage is 1,313.27 ft above sea level (NGVD of 1929, levels by Wadena County Highway Department from Minnesota Department of Transportation benchmark). Apr. 15, 1910 to Sept. 30, 1914, nonrecording gage at same site, at datum 2.2 ft lower. July 28, 1930 to Nov. 4, 1949, nonrecording gages at same site and datum.

REMARKS.--Records good except those for estimated daily discharges, which are fair. Flow affected by natural storage in many lakes.

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	381	519	e455	e387	e431	e402	e530	1270	970	517	314	299
2	382	649	e445	e390	e431	e398	e545	1260	976	503	312	292
3	380	697	e410	e392	e431	e392	e560	1230	955	495	302	287
4	371	697	e390	e394	e431	e388	e575	1180	925	477	299	284
5	372	701	e375	e397	e430	e382	e593	1110	911	461	286	283
6	376	741	e365	e399	e430	e382	e620	1090	894	453	282	278
7	372	836	e354	e400	e428	e382	e720	1110	882	448	281	335
8	367	874	e352	e401	e429	e383	e860	1080	870	435	282	336
9	362	887	e351	e403	e430	e384	e1050	1040	848	418	310	326
10	360	898	e349	e407	e430	e385	e1380	1000	839	402	312	312
11	355	904	e348	e409	e431	e387	1500	969	847	377	321	306
12	353	920	e348	e411	e431	e389	1690	943	866	349	321	301
13	353	941	e349	e414	e431	e391	1720	922	881	319	321	300
14	386	945	e349	e417	e432	e396	1720	909	1200	297	318	305
15	411	933	e350	e419	e433	e399	1690	895	1200	310	314	311
16	417	923	e351	e420	e434	e402	1620	905	1150	322	318	308
17	418	925	e352	e422	e435	e408	1540	883	1100	319	319	306
18	420	e910	e353	e424	e437	e412	1480	840	1030	332	330	305
19	427	e900	e354	e427	e439	e418	1450	808	948	324	332	305
20	434	e850	e357	e429	e437	e422	1440	793	905	327	321	304
21	431	e790	e359	e430	e434	e428	1410	859	908	325	334	305
22	426	e750	e360	e431	e432	e435	1380	907	841	327	334	305
23	421	e710	e362	e431	e428	e442	1420	1030	779	329	324	308
24	418	e670	e364	e432	e424	e450	1460	1090	729	327	314	307
25	423	e638	e368	e433	e420	e460	1430	1060	693	327	307	303
26	437	e600	e370	e433	e415	e470	1360	1100	652	320	298	297
27	481	e570	e373	e433	e410	e480	1300	1100	623	329	305	291
28	481	e540	e376	e432	e408	e490	1250	1080	588	354	297	287
29	483	e510	e379	e432	---	e500	1220	1050	567	340	297	281
30	491	e480	e380	e432	---	e510	1250	1020	541	327	312	277
31	476	---	e383	e432	---	e520	---	988	---	324	300	---
TOTAL	12665	22908	11431	12913	12012	13087	36763	31521	26118	11514	9617	9044
MEAN	409	764	369	417	429	422	1225	1017	871	371	310	301
MAX	491	945	455	433	439	520	1720	1270	1200	517	334	336
MIN	353	480	348	387	408	382	530	793	541	297	281	277
AC-FT	25120	45440	22670	25610	23830	25960	72920	62520	51810	22840	19080	17940
CFSM	.40	.76	.37	.41	.42	.42	1.21	1.01	.86	.37	.31	.30

05244000 CROW WING RIVER AT NIMROD, MN--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1910 - 2001, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	419	418	352	308	315	418	774	685	581	453	378	386
MAX	1463	871	692	462	527	780	1624	1615	1354	1124	1452	929
(WY)	1974	1972	1999	1966	2000	1995	1966	1950	1965	1997	1944	1944
MIN	137	146	131	125	170	171	202	181	149	84.0	74.3	131
(WY)	1937	1937	1940	1940	1940	1940	1911	1911	1934	1936	1936	1934

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1910 - 2001	
ANNUAL TOTAL	199245		209593			
ANNUAL MEAN	544		574		487	
HIGHEST ANNUAL MEAN					757	
LOWEST ANNUAL MEAN					230	
HIGHEST DAILY MEAN	945		Nov 14		1720	
LOWEST DAILY MEAN	276		Aug 11		277	
ANNUAL SEVEN-DAY MINIMUM	286		Aug 8		289	
MAXIMUM PEAK FLOW					1730a	
MAXIMUM PEAK STAGE					6.52b	
INSTANTANEOUS LOW FLOW					268	
ANNUAL RUNOFF (AC-FT)	395200		415700		352800	
ANNUAL RUNOFF (CFSM)	.54		.57		.48	
10 PERCENT EXCEEDS	798		1080		811	
50 PERCENT EXCEEDS	496		428		388	
90 PERCENT EXCEEDS	342		308		205	

a Gage-height, 4.86 ft.
 b Backwater from ice.
 e Estimated.

