

## UPPER MISSISSIPPI RIVER MAIN STEM--Continued

05244000 CROW WING RIVER AT NIMROD, MN

LOCATION.--Lat 46°38'25", long 94°52'44", in SE<sup>1</sup>/<sub>4</sub>NW<sup>1</sup>/<sub>4</sub> 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 mi<sup>2</sup>.

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 1999 TO SEPTEMBER 2000  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	587	508	e470	e404	e472	e760	763	638	629	762	387	325
2	581	509	446	e410	e480	e810	743	631	621	729	371	329
3	575	508	445	e412	e485	e850	752	617	613	703	350	338
4	569	509	443	e415	e490	e860	730	597	635	683	338	345
5	563	509	e495	e418	e496	e820	727	591	633	688	330	349
6	557	505	e520	e420	e498	e740	763	570	607	670	323	349
7	553	499	e539	e428	e500	679	752	564	581	685	312	371
8	582	498	e543	e430	e498	724	731	698	560	718	304	371
9	575	496	e480	e432	e496	e740	740	729	534	804	291	372
10	565	493	e495	e431	e494	e730	710	754	514	751	280	366
11	556	491	e520	e430	e492	e710	695	832	495	714	276	361
12	552	491	e540	e428	e490	e690	693	876	475	717	277	358
13	550	491	e510	e426	e485	681	686	859	470	694	277	354
14	551	487	e450	e424	e480	668	687	832	529	669	298	352
15	556	485	e370	e422	e476	e655	679	801	547	647	306	353
16	549	482	e280	e420	e472	e645	666	821	624	628	313	343
17	540	476	e310	e416	e470	e635	660	803	625	598	331	335
18	552	471	e340	e412	e470	625	672	780	703	577	330	331
19	565	469	e370	e410	e474	627	660	757	704	555	323	336
20	559	472	e400	e414	e480	624	680	742	713	525	321	329
21	550	485	e430	e416	e500	623	678	733	738	496	319	333
22	541	491	e450	e418	e530	627	679	719	762	474	316	347
23	544	491	e452	e422	e550	636	681	703	764	456	310	387
24	550	491	e440	e430	e580	734	666	682	761	440	307	393
25	549	488	e430	e434	e620	837	663	653	776	436	308	398
26	550	488	e425	e438	e650	870	662	622	804	442	314	406
27	543	486	e418	e442	e680	877	648	591	806	438	309	401
28	538	e470	e412	e448	e725	862	632	606	805	426	307	400
29	533	e470	e405	e452	e740	844	616	589	803	416	311	399
30	533	e480	e404	e460	---	825	615	619	786	407	311	389
31	515	---	e403	e468	---	797	---	641	---	396	323	---
TOTAL	17183	14689	13635	13230	15273	22805	20729	21650	19617	18344	9773	10820
MEAN	554	490	440	427	527	736	691	698	654	592	315	361
MAX	587	509	543	468	740	877	763	876	806	804	387	406
MIN	515	469	280	404	470	623	615	564	470	396	276	325
AC-FT	34080	29140	27050	26240	30290	45230	41120	42940	38910	36390	19380	21460
CFSM	.55	.48	.44	.42	.52	.73	.68	.69	.65	.59	.31	.36

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STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1910 - 2000, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	419	412	352	306	313	417	766	680	577	454	379	387
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 1999 CALENDAR YEAR	FOR 2000 WATER YEAR	WATER YEARS 1910 - 2000
ANNUAL TOTAL	256075	197748	
ANNUAL MEAN	702	540	485
HIGHEST ANNUAL MEAN			757
LOWEST ANNUAL MEAN			230
HIGHEST DAILY MEAN	1870	May 14	3580
LOWEST DAILY MEAN	280	Dec 16	45
ANNUAL SEVEN-DAY MINIMUM	357	Dec 15	55
INSTANTANEOUS PEAK FLOW			883
INSTANTANEOUS PEAK STAGE			5.41 <sup>a</sup> Mar 6
INSTANTANEOUS LOW FLOW			45
ANNUAL RUNOFF (AC-FT)	507900	392200	351600
ANNUAL RUNOFF (CFSM)	.69	.53	.48
10 PERCENT EXCEEDS	1210	752	805
50 PERCENT EXCEEDS	563	512	385
90 PERCENT EXCEEDS	440	337	203

<sup>a</sup> Backwater from ice.  
<sup>e</sup> Estimated.

