

## 05244000 CROW WING RIVER AT NIMROD, MN

LOCATION.--Lat 46°38'25", long 94°52'44", in SE $\frac{1}{4}$ NW $\frac{1}{4}$  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 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 poor. Flow affected by natural storage in many lakes.

DISCHARGE, CUBIC FEET PER SECOND  
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	727	632	e440	e350	e373	e339	e808	585	784	757	364	305
2	743	637	e395	e343	e377	e339	e840	570	761	702	352	294
3	723	629	e365	e340	e380	e340	830	552	735	678	353	297
4	686	610	e390	e338	e382	e342	847	535	735	662	361	304
5	655	597	e380	e337	e387	e348	847	524	784	649	369	299
6	629	587	e380	e336	e380	e360	828	512	773	632	351	324
7	597	575	e385	e336	e370	e371	792	499	775	604	335	322
8	575	561	e390	e336	e362	e368	767	496	890	584	321	308
9	558	551	e392	e336	e350	e355	748	520	898	569	359	298
10	542	542	e393	e336	e352	e347	751	548	895	544	369	293
11	529	526	e395	e336	e360	e340	806	533	914	517	361	284
12	517	521	e390	e337	e370	e340	996	516	1,020	532	359	315
13	511	520	e330	e338	e375	e340	1,040	530	957	601	352	397
14	500	514	e310	e339	e373	e340	997	535	993	592	346	398
15	491	509	e355	e340	e370	e339	956	538	996	553	334	382
16	488	508	e400	e338	e362	e338	942	519	964	518	325	359
17	477	507	e395	e334	e354	e333	943	498	908	493	336	336
18	471	511	e374	e335	e350	e331	946	499	859	481	344	338
19	460	525	e348	e342	e345	e330	950	506	814	470	357	332
20	451	552	e337	e348	e340	e330	946	498	910	446	364	319
21	453	556	e331	e350	e339	e330	913	490	1,050	435	353	308
22	443	555	e329	e350	e338	e332	884	493	978	428	349	292
23	505	542	e326	e350	e338	e334	868	488	899	411	342	285
24	551	e525	e322	e350	e338	e337	845	482	820	408	334	298
25	540	e505	e328	e357	e338	e340	808	650	759	417	325	313
26	528	e495	e335	e360	e338	e350	763	975	721	436	341	319
27	518	e475	e340	e355	e338	e370	700	993	723	418	334	321
28	536	e460	e346	e357	e338	e410	649	984	688	420	323	317
29	560	e450	e350	e360	---	e490	623	919	694	395	314	335
30	599	e445	e355	e365	---	e600	601	858	795	377	311	343
31	624	---	e358	e370	---	e740	---	817	---	375	307	---
TOTAL	17,187	16,122	11,264	10,699	10,017	11,503	25,234	18,662	25,492	16,104	10,645	9,635
MEAN	554	537	363	345	358	371	841	602	850	519	343	321
MAX	743	637	440	370	387	740	1,040	993	1,050	757	369	398
MIN	443	445	310	334	338	330	601	482	688	375	307	284
AC-FT	34,090	31,980	22,340	21,220	19,870	22,820	50,050	37,020	50,560	31,940	21,110	19,110
CFSM	0.54	0.52	0.35	0.34	0.35	0.36	0.82	0.58	0.82	0.50	0.33	0.31

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1910 - 2005, BY WATER YEAR (WY)

MEAN	416	416	352	306	312	411	760	677	578	454	375	383
MAX	1,463	871	692	462	527	780	1,624	1,615	1,354	1,124	1,452	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)

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SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1910 - 2005	
ANNUAL TOTAL	138,357		182,564		481	
ANNUAL MEAN	378		500		757	
HIGHEST ANNUAL MEAN					1999	
LOWEST ANNUAL MEAN					230	
HIGHEST DAILY MEAN	743	Oct 2	1,050	Jun 21	3,580	Oct 10, 1973
LOWEST DAILY MEAN	161	Sep 4	284	Sep 11	45	Aug 7, 1936
ANNUAL SEVEN-DAY MINIMUM	177	Aug 29	302	Aug 30	55	Aug 3, 1936
MAXIMUM PEAK FLOW			a1,080	Jun 20	b3,700	Oct 10, 1973
MAXIMUM PEAK STAGE			c6.12	Apr 1	c7.64	Apr 20, 1950
INSTANTANEOUS LOW FLOW			d93	Dec 13	45	Aug 7, 1936
ANNUAL RUNOFF (AC-FT)	274,400		362,100		348,400	
ANNUAL RUNOFF (CFSM)	0.374		0.495		0.476	
10 PERCENT EXCEEDS	587		834		822	
50 PERCENT EXCEEDS	356		411		400	
90 PERCENT EXCEEDS	207		330		240	

- a Gage-height, 4.09 ft.
- b Gage-height, 7.35 ft.
- c Backwater from ice.
- d Result of freezeup.
- e Estimated.

