

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 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 2002 TO SEPTEMBER 2003
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	291	e410	e354	e295	e231	e231	380	435	492	565	301	220
2	284	e405	e354	e292	e231	e231	376	420	454	554	305	211
3	286	391	e353	e290	e231	e231	359	405	439	552	304	202
4	341	385	e353	e287	e231	e231	360	393	418	519	299	199
5	369	381	e352	e284	e231	e231	362	428	409	486	303	191
6	389	384	e352	e280	e231	e231	344	483	417	457	308	188
7	425	383	e352	e277	e231	e231	334	494	439	463	307	185
8	415	381	e351	e274	e231	e231	331	486	436	444	305	184
9	393	383	e351	e272	e231	e231	334	597	439	458	302	183
10	384	389	e350	e268	e231	e231	338	710	462	515	302	189
11	381	387	e349	e266	e231	e232	340	732	460	500	301	201
12	406	383	e348	e263	e231	e232	332	716	453	492	299	205
13	402	e381	e346	e261	e231	e233	331	691	450	481	290	193
14	389	e379	e343	e259	e231	e234	333	677	429	475	278	185
15	378	e377	e340	e257	e231	e239	336	667	408	479	266	186
16	373	e375	e338	e254	e231	e242	351	637	387	469	255	183
17	374	e373	e335	e252	e231	e253	389	614	409	451	240	180
18	388	e372	e333	e250	e231	e272	410	589	399	434	224	189
19	402	e371	e331	e248	e231	e296	490	631	376	439	219	195
20	411	364	e329	e246	e231	e328	566	650	349	441	223	189
21	416	366	e327	e244	e231	e368	602	619	321	402	215	191
22	415	371	e324	e242	e231	e437	595	610	345	380	213	199
23	421	370	e321	e240	e231	e499	583	612	367	359	213	202
24	427	e358	e319	e237	e231	e521	583	582	417	344	220	201
25	422	e355	e316	e235	e231	e520	572	559	493	329	223	198
26	417	e351	e313	e233	e231	e505	539	532	537	326	231	201
27	410	e355	e311	e232	e231	e490	517	508	551	319	227	200
28	399	e355	e308	e231	e231	e470	477	496	558	309	233	197
29	400	e355	e305	e231	---	e440	465	502	568	299	237	201
30	408	e354	e301	e231	---	e420	451	523	574	304	235	199
31	409	---	e298	e231	---	e400	---	534	---	301	230	---
TOTAL	12,025	11,244	10,357	7,962	6,468	9,941	12,780	17,532	13,256	13,346	8,108	5,847
MEAN	388	375	334	257	231	321	426	566	442	431	262	195
MAX	427	410	354	295	231	521	602	732	574	565	308	220
MIN	284	351	298	231	231	231	331	393	321	299	213	180
AC-FT	23,850	22,300	20,540	15,790	12,830	19,720	25,350	34,770	26,290	26,470	16,080	11,600
CFSM	0.38	0.37	0.33	0.25	0.23	0.32	0.42	0.56	0.44	0.43	0.26	0.19

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1910 - 2003, BY WATER YEAR (WY)

MEAN	417	417	354	307	313	413	764	682	577	456	378	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 2002 CALENDAR YEAR		FOR 2003 WATER YEAR		WATER YEARS 1910 - 2003	
ANNUAL TOTAL	154,679		128,866		484	
ANNUAL MEAN	424		353		757	
HIGHEST ANNUAL MEAN					1999	
LOWEST ANNUAL MEAN					230	
HIGHEST DAILY MEAN	965	Jul 11	732	May 11	3,580	Oct 10, 1973
LOWEST DAILY MEAN	258	Mar 21	180	Sep 17	45	Aug 7, 1936
ANNUAL SEVEN-DAY MINIMUM	260	Mar 21	187	Sep 14	55	Aug 3, 1936
MAXIMUM PEAK FLOW			a735	May 11	3,700	Oct 10, 1973
MAXIMUM PEAK STAGE			b4.69	Mar 21	b7.64	Apr 20, 1950
INSTANTANEOUS LOW FLOW			175	Sep 8	45	Aug 7, 1936
ANNUAL RUNOFF (AC-FT)	306,800		255,600		350,300	
ANNUAL RUNOFF (CFSM)	0.42		0.35		0.48	
10 PERCENT EXCEEDS	620		520		826	
50 PERCENT EXCEEDS	382		346		400	
90 PERCENT EXCEEDS	280		223		240	

a Gage-height, 3.45 ft.
 b Backwater from ice.
 c Estimated.

