

# CROW WING COUNTY

## Snow Event 13-2023-18 March 31, - April 2, 2023

Reported Event Conditions	
Date:	3/30-4/2/23
Event No:	13-2023-18
Begin Time:	3/30 4PM
End Time:	4/2 10AM
Weather:	Rain/Snow
Precipitation:	.25" R/3" S
Temperature:	41/20
Wind:	10-40 MPH

Event Costs	
Salt	\$28,710
Sand	\$170
Brine	\$1,313
Equipment/Fuel	\$29,025
Personnel Reg.	\$5,802
Personnel OT	\$3,867
<b>Total</b>	<b>\$68,887</b>
Cost Mile	\$123
Season Total:	2.18M

Priority By Route	
<b>Priority 1</b>	
% Target 1A Met:	100%
% Target 1B Met:	100%
<b>Priority 2</b>	
% Target 2A Met:	100%
% Target 2B Met:	100%
<b>Priority 3</b>	
% Target 3A Met:	100%

— MnDOT Highway

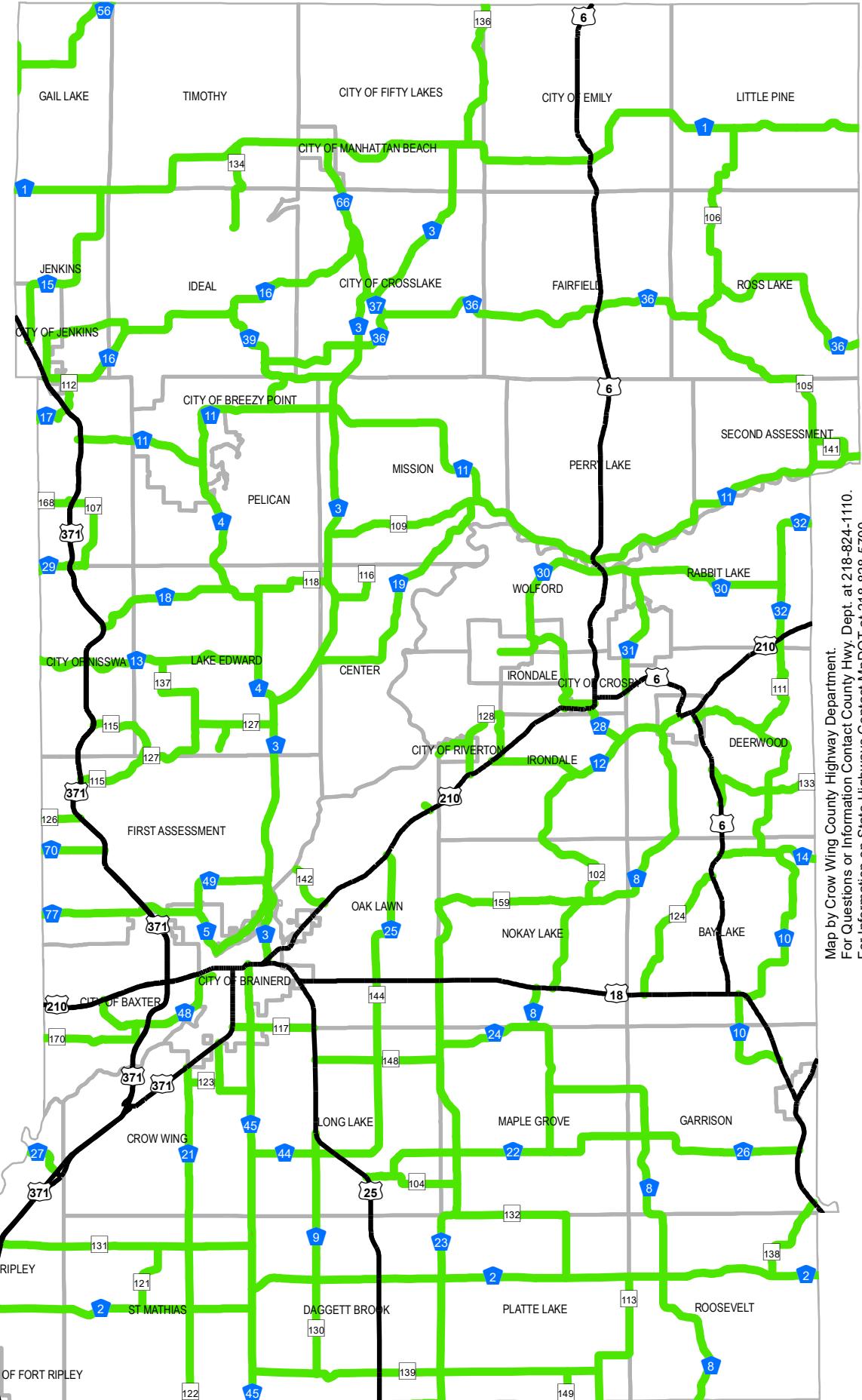
### Route Priority

- 1 (ADT>5000)
- 2 (500>ADT<5000)
- 3 (ADT<500)

### Route Target

- Target Achieved
- Target Partly Achieved
- Target Not Achieved

Report Date: 4/5/2023



Map by Crow Wing County Highway Department  
For Questions or Information Contact County Hwy Dept at 218-824-1110.  
For Information on State Highways Contact MnDOT at 218-828-5700.

## 2022/2023 Summary For Snow Event 13-2023-18

Date 3/31-4/2/23

Salt Tons	Salt \$	Sand Tons	Sand \$	Brine gal	Brine \$	Mat. Total	Equip \$	Reg. Personnel	OT \$
198	\$28,710	5	\$170	1989	\$1,313	\$30,193	\$29,025	\$5,802.00	\$3,867

**Total** \$68,887

12.4 Plow hrs.

\$5,553 per/hr.

199 Man hrs.

\$123 per/CL/mile

\$2.60 per/household for entire County

### Forecast

2-6" of snow forecasted starting 2 4:00 pm 3-30-23 and continuing until 4-1-23 1:00 am. Winds 15-40 mph.

### Pre Plan

Begin plowing early 3-31 if snow materializes and our roads loose bare wheel paths. Apply 300 lbs of salt to centerlines. Check roads again early on 4-1 and dispatch plows to apply salt if needed.

### Actual Event

Event start: 3/30/23 4:00PM

Event ended 4-2-23 10:00AM

### Details/Comments

Friday 3/31/23 called plows in at 3:30 am start time. Roads were compacted with 1/4 inch of ice and snow. 300 pounds on centerline. Road temp was 28 at start of event. Air temp got to 32 at the highest during the day. Everything passed by the end of the day. Saturday 4/1/23 plows started plowing at 2:00 am. Wind was blowing hard, causing drifting issues. All snow was south of Brainerd. A dusting of snow just south of Brainerd to 2" by Morrison County line, with some ice and compaction in places closer to 210 and highway 18. Road temp and air temp at 32 when started plowing. Air temp dropping to 18 in forecast went with 300 pounds of salt as needed. Unexpected rain fell overnight 4-1 and into the morning 4-2 until 10:00 am. Snowplows came in to apply material to roads. Roads cleaned up and all goals met by noon 4-2-23. Around 3" of snow total for the event.

### Conditions

Temps around freezing with strong winds.

Road	Road Temp	Date	Time	Air Temp
Hwy 6	51	3\30\23	2:00pm	31
Hwy 25	52	3\30\23	2:00pm	29
Hwy 6	27	3\31\23	3:00am	28
Hwy 25	28	3\31\23	3:00am	29
Hwy 6	18	4\1\23	3:00am	19
Hwy 25	21	4\1\23	3:00am	20
Hwy 6	30	4\2\23	6:00am	31
Hwy 25	31	4\2\23	6:00 AM	31

Date	High	Low
3/29/2023	26	-5
3/30/2023	34	25
3/31/2023	33	20
4/1/2023	41	21
4/2/2023	47	31
4/3/2023	35	28
4/4/2023	30	26

Source: weather.com. Monthly Weather. 56401

### Summary

Snow and ice started to stick to roads and we lost our bare wheel paths, but with the warmer temps, the bare wheel paths quickly returned.

### **Decisions Made**

Call plows in to start plowing early each Friday, Saturday and Sunday morning. Salt application was effective.

### **Lessons Learned**

Start times and salt application allowed us to reach our goals quickly.

#### **Goals Met/Not Met**

	Plowing	Goals
Priority 1	Met	6 hr.
Priority 2	Met	8 hr.
Priority 3	Met	10 hr.

	Bare wheel paths	Goals
Priority 1	Met	18 Hr.
Priority 2	Met	48 hr.