

CROW WING COUNTY

Snow Event 15-2023-20 April 16, 2023



Reported Event Conditions	
Date:	4/16/2023
Event No:	15-2023-20
Begin Time:	4/14 9PM
End Time:	4/16 11PM
Weather:	Rain/Snow
Precipitation:	.71" R/4" S
Temperature:	72/27
Wind:	10-40 MPH

Event Costs	
Salt	\$12,978
Sand	\$0
Brine	\$370
Equipment/Fuel	\$27,543
Personnel Reg.	\$6,255
Personnel OT	\$2,820
Total	\$49,965
Cost Mile	\$89
Season Total:	2.32M

Priority By Route	
Priority 1	
% Target 1A Met:	100%
% Target 1B Met:	100%
Priority 2	
% Target 2A Met:	100%
% Target 2B Met:	100%
Priority 3	
% Target 3A Met:	100%

— MnDOT Highway

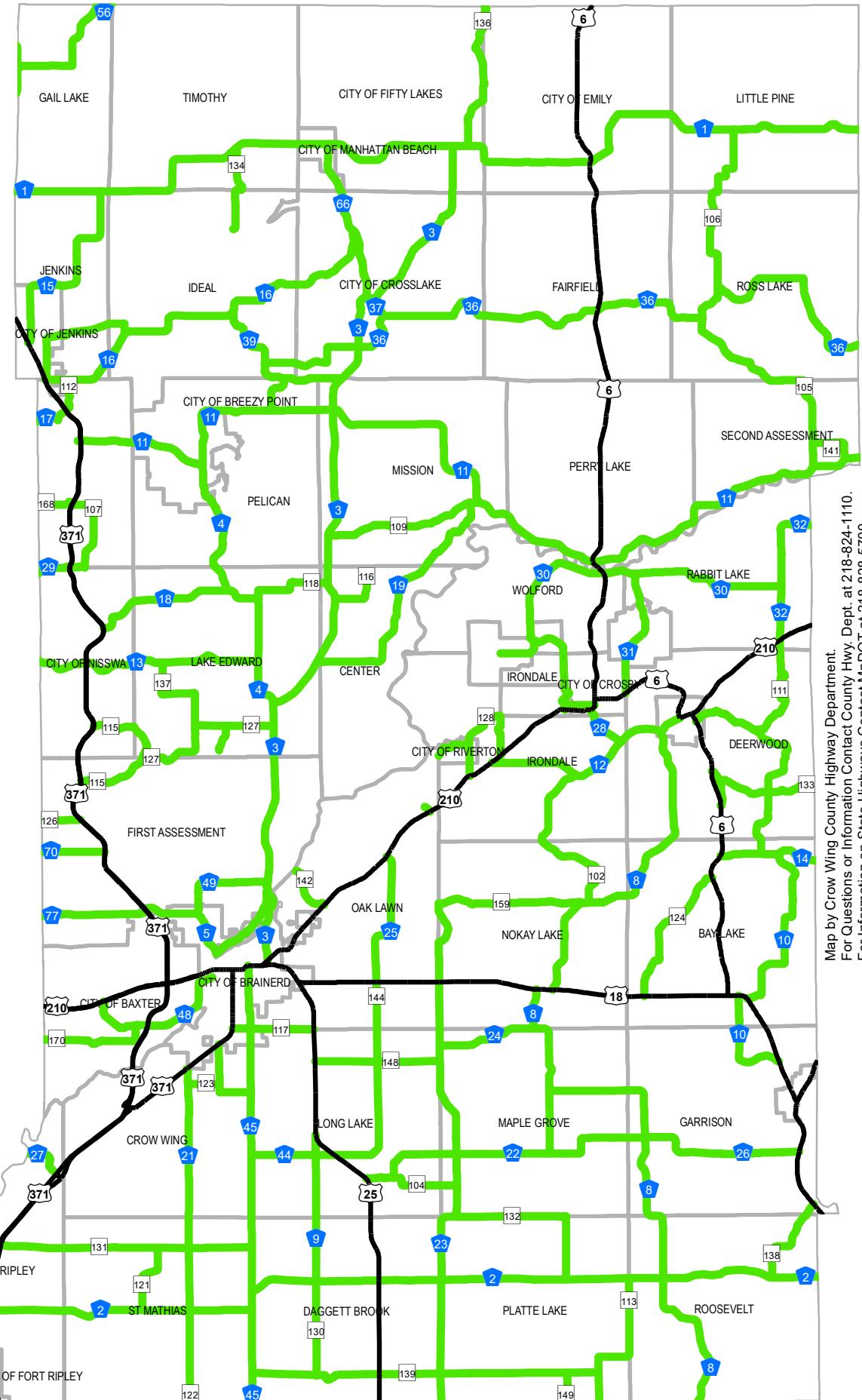
Route Priority

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

Route Target

- Target Achieved
- Target Partly Achieved
- Target Not Achieved

Report Date: 4/18/2023



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 15-2023-20

Date 4-16-23

Salt Tons	Salt \$	Sand Tons	Sand \$	Brine gal	Brine \$	Mat. Total	Equip \$	Reg. Personnel	OT \$
89.5	\$12,978	0	\$0	560	\$370	\$13,347	\$27,543	\$6,255.00	\$2,820

Total \$49,965

11.8 Plow hrs.

\$4,230 per/hr.

189 Man hrs.

\$89 per/CL/mile

\$1.88 per/household for entire County

Forecast

The forecast on 4-15 was the lakes area would see about 3/4" of rain and up to 1.5" of snow. Strong 15-40 mph winds. Temps around freezing. Below overnight and above during the daylight.

Pre Plan

Check roads 4-16 since the pavement temps and the forecasted snowfall did not look like it would stick to roads. If we did have to go out, we would scrape and apply 200 lbs. of salt where needed.

Actual Event

Event start: 4-14-23 9pm

Event ended 4-16-23 11pm

Details/Comments

The forecast changed overnight and when we started checking roads at 5:00 am 4/16, we determined we needed snowplows to start plowing. Plows began at 6:30 am 4/16, applying 300 lbs. of salt and turning down the rates mid morning. 4" of wet heavy snow with strong winds causing drifting issues. .75" rain. 15-40 mph winds.

Conditions

4" of wet heavy snow and 20-45 mph winds.

Road	Road Temp	Date	Time	Air Temp
Hwy 6	29	4\16\23	6:00AM	30
Hwy 25	30	4\16\23	6:00AM	31
Hwy 6	37	4\16\23	3:00PM	32
Hwy 25	39	4\16\23	3:00PM	30
Hwy 6	26	4\17\23	6:00AM	27
Hwy 25	26	4\17\23	6:00AM	28

Date	High	Low
4/13/2023	79	46
4/14/2023	72	38
4/15/2023	39	27
4/16/2023	37	27
4/17/2023	47	25

Source: weather.com. Monthly Weather. 56401

Summary

Roads cleaned up well. Snowplows could not get close to roadway shoulders due to unfrozen and soft material. We had to leave the gravel roads overnight to let the moisture leach out so we didn't end up plowing off a bunch of gravel.

Decisions Made

Call snowplows in at 6:30 to start plowing and hopefully be able to stay late enough with the one shift to keep the roads melting and keep the drifts back.

Lessons Learned

Roads cleaned up well and we can reduce our salt application as the sun comes up.

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.