

CROW WING COUNTY

Snow Event 14-2023-19 April 5, 2023



Reported Event Conditions

Date:	4/5/2023
Event No:	14-2023-19
Begin Time:	4/4 8AM
End Time:	4/5 9AM
Weather:	Rain/Snow
Precipitation:	.33" R/3" S
Temperature:	32/16
Wind:	10-40 MPH

Event Costs

Salt	\$26,970
Sand	\$0
Brine	\$902
Equipment/Fuel	\$39,260
Personnel Reg.	\$8,998
Personnel OT	\$2,075
Total	\$78,205
Cost Mile	\$140
Season Total:	2.27M

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

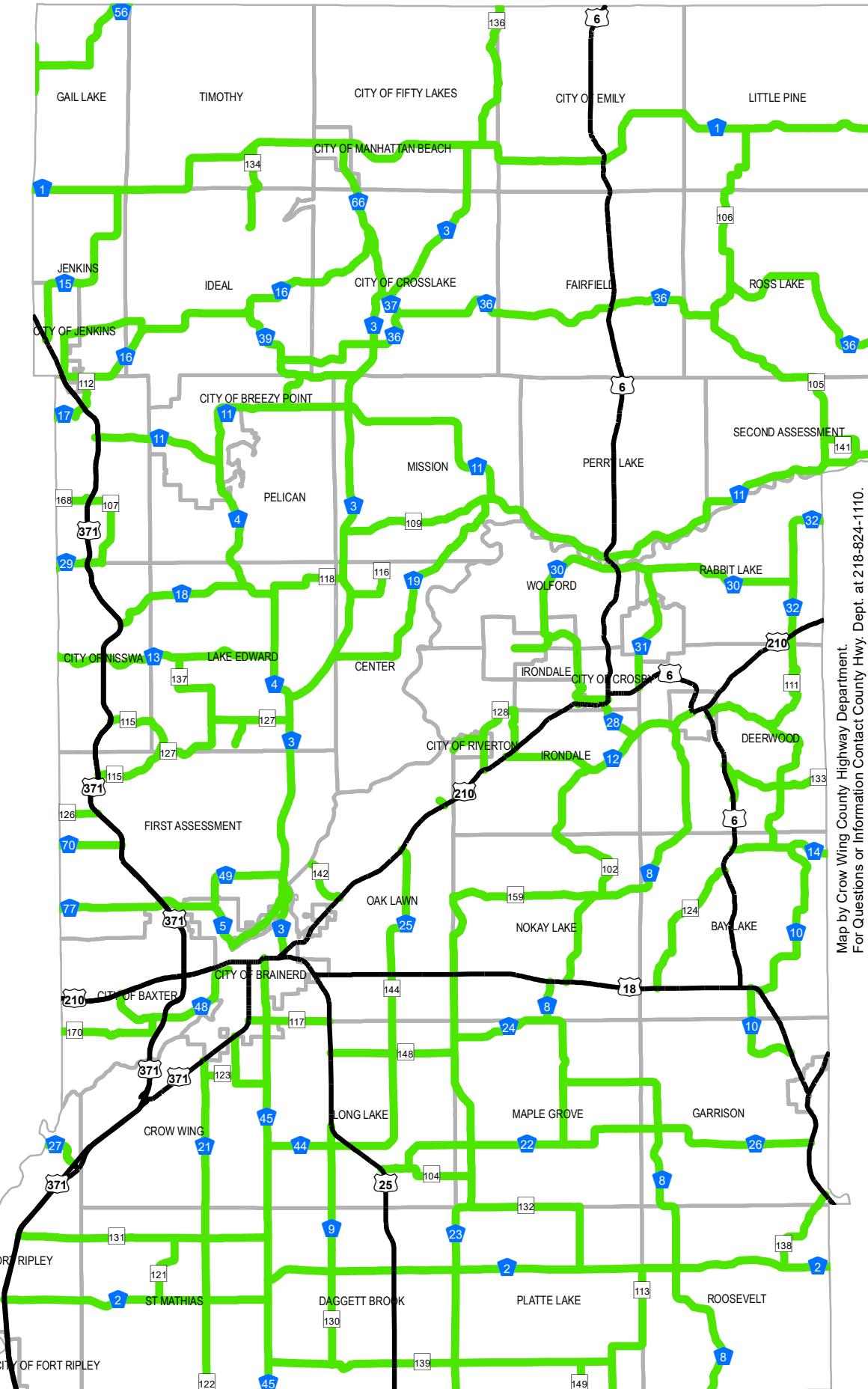
Route Priority

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

Route Target

- Target Achieved
- Target Partly Achieved
- Target Not Achieved

Report Date: 4/7/2023



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 14-2023-19

Date 4-5-23

Salt Tons	Salt \$	Sand Tons	Sand \$	Brine gal	Brine \$	Mat. Total	Equip \$	Reg. Personnel	OT \$
186	\$26,970	0	\$0	1366	\$902	\$27,872	\$39,260	\$8,998.00	\$2,075

Total \$78,205

16.1 Plow hrs.

258 Man hrs.

\$4,859 per/hr.

\$140 per/CL/mile

\$2.95 per/household for entire County

Forecast

7" of snow forecasted in the NW corner of the county and 3" in the SW. High uncertainty of the rain/snow line. Snow/rain forecasted to start 5:00 am 4/4 and continue until 5:00 pm 4/5.

Pre Plan

Dispatch the plows mid morning on 4/4 to address slush or freezing rain as needed. Plowing to continue into the evening. Return to plowing at 3:00 am 4/5 and plow into the evening if the snow doesn't melt on the treated roads. Apply 300 lbs. on centerlines.

Actual Event

Event start: 4/4/23 8:00AM

Event ended 4/5/23 9:00AM

Details/Comments

Snow started to stick to the north on 4/4 so the plows began plowing around 11:00 am (4/4). Everything was melting on the roads in the south 2/3s of the county so plows weren't needed. The north plows stopped plowing at 3:00 on 4/4 because they were creating black ice and needed the snowfall to soak up the rain to provide better traction. The roads were very slippery early on 4/5. The roads cleaned up well with salt to soften the ice initially, then with a second round of plowing, the snowplows were able to get under the ice and scrape it off. The plows had to go out again on 4/6 to push back west wind drifts and intermittent ice areas created from overnight flurries and the 35 mph winds that caused drifting. Roads still met goals withing timelines.

Conditions

Rain, snow and sleet with strong east winds with gusts up to 40 mph. Rain continued until 9:00 am 4/5/23. .3" rain and 3" snow.

Road	Road Temp	Date	Time	Air Temp
Hwy 6	33	4\4\23	10:00am	29
Hwy 25	34	4\4\23	10:00am	29
Hwy 6	32	4\5\23	3:00am	30
Hwy 25	30	4\5\23	3:00am	31
Hwy 6	34	4\5\23	3:00pm	25
Hwy 25	28	4\5\23	3:00pm	25

Date	High	Low
4/3/2023	35	28
4/4/2023	30	26
4/5/2023	32	16
4/6/2023	34	7

Source: weather.com. Monthly Weather. 56401

Summary

The continued rain with occasional snow continued into the morning of 4/5. Overnight flurries and strong winds created drifting on 4/6. The roads cleaned up well on 4/5 and again on 4/6.

Decisions Made

Pulling the plows to let the snow soak up the falling rain, helped create a rougher surface on 4/4. A layer of snow and ice covered our county roads. Plowing at 3:00 am 4/5 and plowing road multiple times to get the ice to break.

Lessons Learned

We stopped plowing and left the roads to let the snow soak up the rain, which helped with positive results. Trying to plow and apply salt as the rain/snow fell created black ice, creating a more slippery driving surface.

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.