

CROW WING COUNTY

Snow Event 13-2022-1 December 6-7, 2022



Reported Event Conditions

Date: 12/6-12/7/22
Event No: 13-2022-2
Begin Time: 12/6 4AM
End Time: 12/7 8:30AM
Weather: Snow
Precipitation: 5" Snow
Temperature: 19/-5
Wind: 5 MPH

Event Costs

Salt	\$33,278
Sand	\$0
Brine	\$1,919
Equipment/Fuel	\$40,460
Personnel Reg.	\$11,112
Personnel OT	\$1,089
Total	\$87,857
Cost Mile	\$157
Season Total:	\$277,959

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

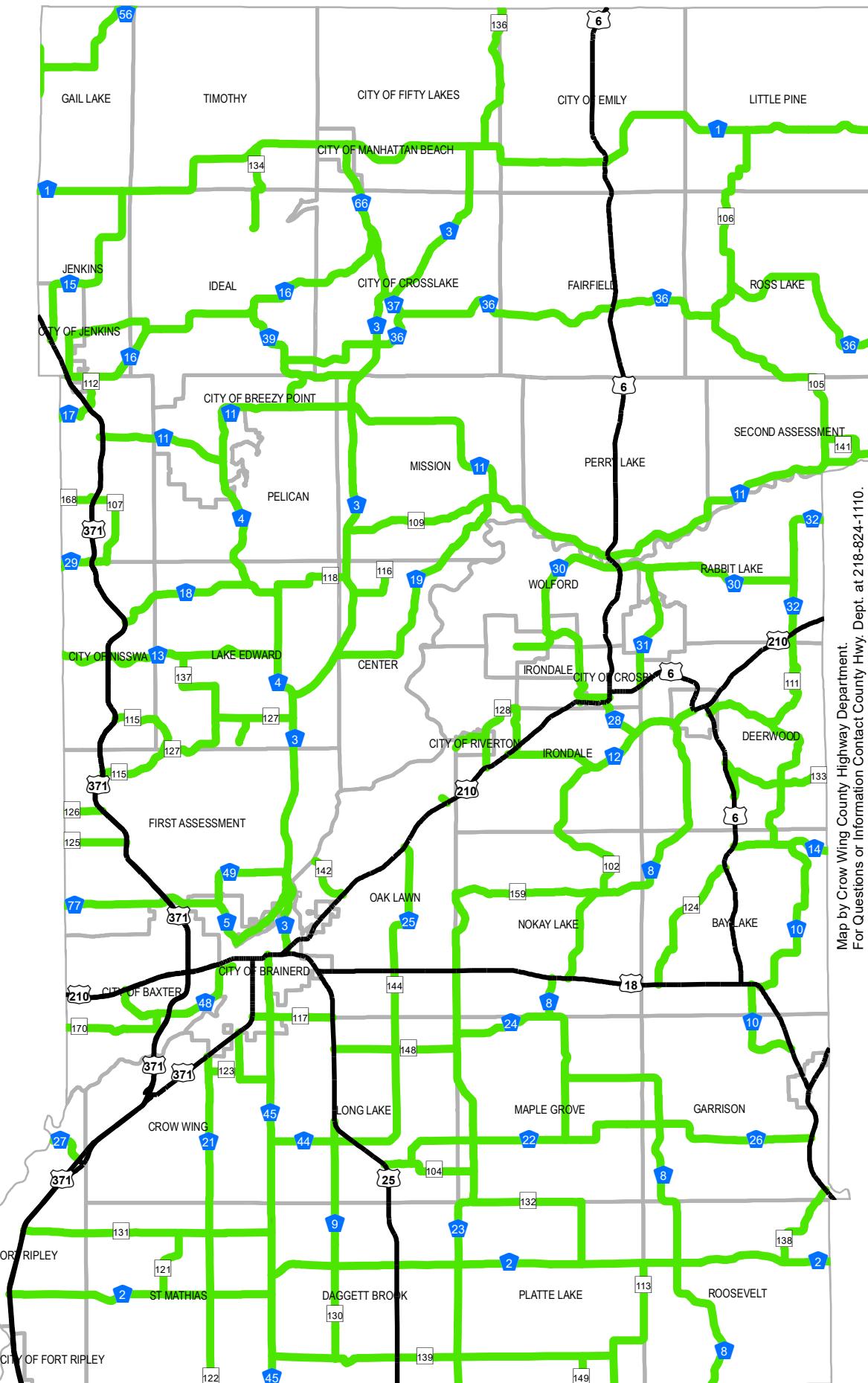
Route Priority

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

Route Target

- Target Achieved
- Target Partly Achieved
- Target Not Achieved

Report Date: 12/9/2022



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 13-2022-2

Date 12/6/22-12/7/22

Salt Tons	Salt \$	Sand Tons	Sand \$	Brine gal	Brine \$	Mat. Total	Equip \$	Reg. Personnel	OT \$
229.5	\$33,278	0	\$0	2907	\$1,919	\$35,196	\$40,460	\$11,112.00	\$1,089

Total \$87,857

22.6 Plow hrs.

\$3,883 per/hr.

362.00 Man hrs.

\$157 per/CL/mile

\$3.31 per/household for entire County

Forecast

.75" of snow forecasted to fall from 5:00 am to 11:00 am 12/6/22. Very little wind and cold temps (9-16 degrees). 1.25" of snow forecasted to fall from 3:00 am to 11:00 am 12/7/22. Very little wind and cold temps (8-11). Forecast changed late 12/6/22 to show 1.5" snow 12/6/22 and 1" on 12/7/22 with the snow ending at 8 am 12/7/22.

Pre Plan

Begin plowing at 9 am 12/6/22 and apply treated salt at 350 lbs. to compacted intersections only. Stay late to cover all of the roads after the snow ends. Begin plowing for the second wave of snow on 12/7/22 at 5:00 am. Apply 500 lbs. of treated salt to compacted intersections. Stay until all roads are plowed after the snow ends.

Actual Event

Event start: 12/6/2022 4:00AM

Event ended 12/7/22 8:30am

Details/Comments

Snow began to fall at 4:00 am and ended around 3:00 pm 12/6/22. Plows began plowing at 9:00 am. 4" of snow north and about .5" south. On 12/7/22 snow began to fall at 3:00 am and ended around 8:30 am. Plows began plowing at 5:00 am 12/7/22. 2" of snow south and about .5" north. Cold temps (4-12 degrees). The plows went out to check and apply 350 lbs. on 12/8. All roads met A targets for plowing. Priority 1 & 2 goals met for wheel path targets also.

Conditions

Cold pavement temps slowed treated salt's effectiveness. Dry snow limited compaction. Light NE winds. More snow than expected on 12/6. Less snow than expected 12/7.

Road	Road Temp	Date	Time	Air Temp
Hwy 6	10	12/6/22	6:00 PM	8
Hwy 25	18	12/6/22	6:00 PM	15
Hwy 6	9	12/7/22	5:00 AM	6
Hwy 25	18	12/7/22	5:00 AM	10
Hwy 6	2	12/8/22	6:00 AM	-1
Hwy 25	7	12/8/22	6:00 AM	3

Date	High	Low
12/5/2022	24	6
12/6/2022	19	6
12/7/2022	11	-5
12/8/2022	27	15
12/9/2022	32	27

Source: weather.com. Monthly Weather. 56401

Summary

Roads cleaned up well. The north was impacted most with 4" of fluffy dry snow 12/6. The cold pavement temps kept the snow from compacting too bad but we did see slow response from priority 2 & 3 roads on 12/7. Trucks scraped roads well on 12/7 but there were areas of compaction and intermittent ice. As temperatures rose on 12/8, the plows went out to scrape residual snow ribbons and apply salt at 350 where needed.

Decisions Made

Plow start times of 9 am and 5 am. Use minimal salt 12/6 & 12/7 because of the dry snow and cold pavement temps. Apply 500 lbs of salt to compacted areas only later 12/7 to try and melt compaction that formed. Apply 350 lbs. of salt on 12/8 and rescrape priority 2 & 3 roads.

Lessons Learned

Plow start times worked well to keep traffic moving and reduce compaction. Low salt use saved salt and did not result in slippery intersections.

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.