

CROW WING COUNTY

February 21-23, 2022 Snow Event #7 - 2022 - #14

Reported Event Conditions	
Date:	2/21/2022
Event No:	#7-2022-#14
Begin Time:	2/21 2 AM
End Time:	2/23 12AM
Weather:	Snow
Precipitation:	12" Snow
Temperature:	9°-21°
Wind:	15 - 35 MPH

Event Costs	
Salt	\$8,804
Sand	\$2,227
Brine	\$706
Equipment/Fuel	\$59,543
Personnel Reg.	\$14,066
Personnel OT	<u>\$14,510</u>
Total	\$99,856
Cost Mile	\$178
Season Total:	1.02 M

Priority By Route	
Priority 1	
% Target 1A Met:	99%
% Target 1B Met:	100%
Priority 2	
% Target 2A Met:	72%
% Target 2B Met:	95%
Priority 3	
% Target 3A Met:	98%

— MnDOT Highway

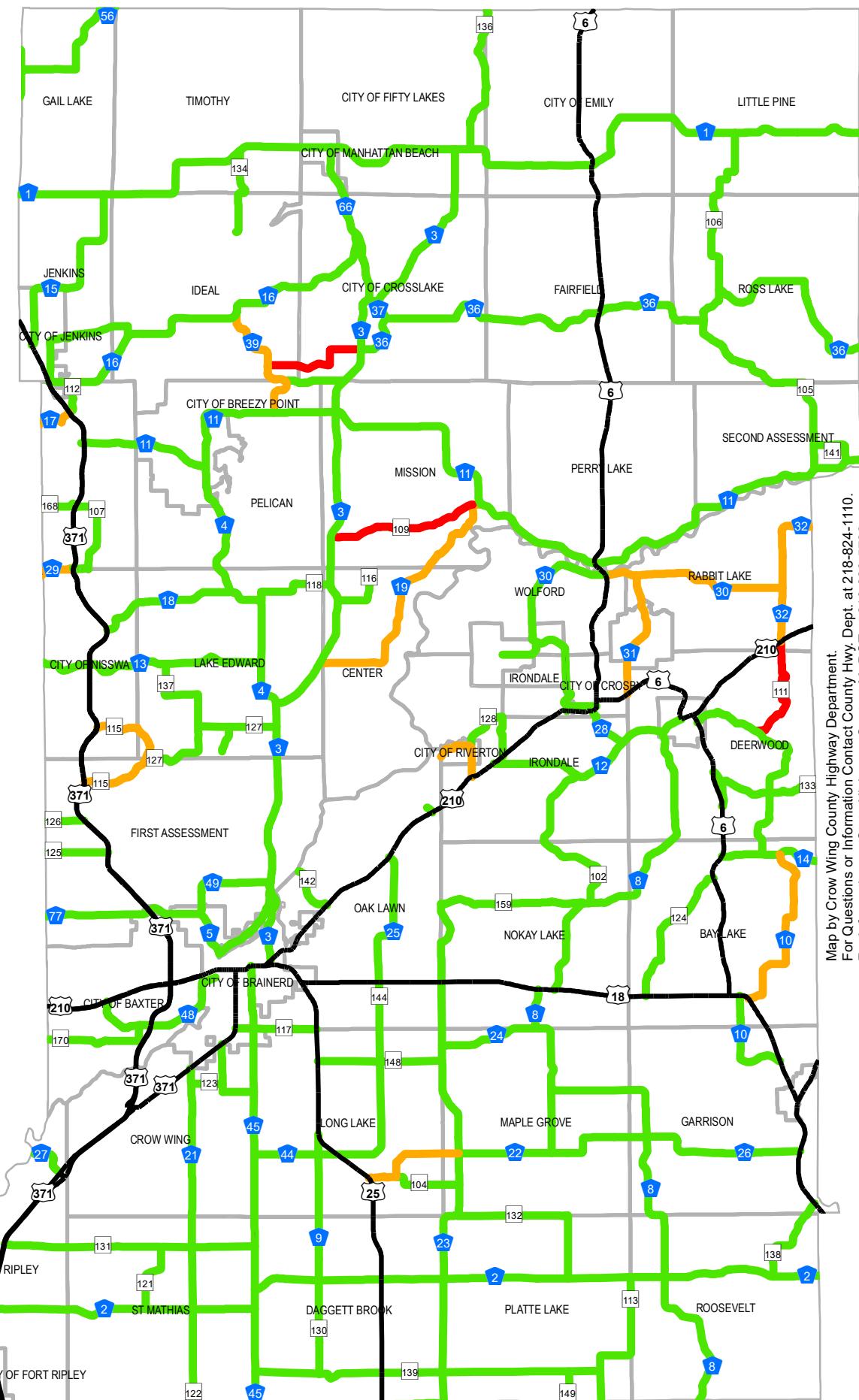
Route Priority

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

Route Target

- Target Achieved
- Target Partly Achieved
- Target Not Achieved

Report Date: 2/28/2022



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.

2021/2022 Summary For Snow Event #7 - 2022 - #14

Date 2-21-22-22

Salt Tons	Salt \$	Sand Tons	Sand \$	Brine gal	Brine \$	Mat. Total	Equip \$	Reg. Personnel	OT \$
96.75	\$8,804	65.5	\$2,227	1070	\$706	\$11,737	\$59,543	\$14,066.00	\$14,510

Total \$99,856 44.1875 Plow hrs. \$2,260 per/hr.
 707.00 Man hrs. \$178 per/CL/mile
 \$3.77 per/household for entire County

Forecast

14" of snow forecasted to fall starting at 2:00 AM 2/21/22 and continue until 11:00 PM 2/22/22. Strong winds of 15 - 35 MPH and single digit to below zero temperatures.

Pre Plan

Begin plowing at 6:00 AM 2/21/22 and continue until 7-8:00 PM, applying sand only where needed at intersections. Begin again at 3:00 AM 2/22/22 and continue until 6:00 PM, applying sand only where needed at intersections. Resume plowing at 2:00 AM 2/23/22 and apply salt to compacted areas.

Actual Event

Event start: 2/21/22 2AM

Event ended 2-23-22 12AM

Comments

Snow began to fall as forecasted. Trucks began scraping drive lanes to keep roads open throughout the day at 6:00 AM to 7:00 PM, 2/21/22, with around 6" of snow. Snow continued overnight with an additional 3" of snow. Snowplows resumed plowing at 3:00 AM until 5:00 PM 2/22/22, with an additional 4" of snow.

Conditions

Strong winds and prolonged snowfall. Winds out of the northeast and switched to the northwest.

Road	Road Temp	Date	Time	Air Temp
Hwy 6	15	2/21/22	3:00AM	9
Hwy 25	16	2/21/22	3:00AM	10
Hwy 6	7	2/21/22	6:30PM	1
Hwy 25	10	2/21/22	6:30PM	5
Hwy 6	2	2/22/22	6:00AM	-4
Hwy 25	4	2/22/22	6:00AM	-2
Hwy 6	9	2/22/22	12:00PM	0
Hwy 25	15	2/22/22	12:00PM	0
Hwy 6	-3	2/23/22	4:00AM	-9
Hwy 25	-2	2/23/22	4:00AM	-8
Hwy 6	3	2/24/22	10:00AM	-6
Hwy 25	17	2/24/22	10:00AM	-3

Date	High	Low
2/20/2022	33	6
2/21/2022	9	-2
2/22/2022	4	-13
2/23/2022	8	-21
2/24/2022	11	-14
2/25/2022	16	-3

Source: weather.com. Monthly Weather. 56401

Summary

Roads cleaned up well, except in the slow moving areas, including intersections where cars compacted the snow and in areas where sand was applied during the event. Crews were able to push drifts back once the wind died down on 2-23. Snowplows did have trouble pushing back in some areas due to the ditches being so full. Most roads where we didn't meet the goals of plowing in both directions within the time limits had one pass complete, just not both. We waited until 1 am to start plowing after the event because of the winds and blowing snow.

Decisions Made

Plow at 6:00 AM - 7:00 PM 2-21, and apply sand only to intersections. Plow at 3:00 AM - 4:00 PM 2-22, and apply sand only to intersections. Plow at 1:00 AM - 12:00 PM 2-23 and apply sand to intersections due to the cold. 2-24 check roads and apply 50/50 mix of salt/sand to compacted areas. 2-25 check roads and apply salt to compacted areas

Lessons Learned

Concentrating on drive lanes and continued plowing during commutes worked well. Adding sand to intersections caused snow to stick and compact during the event.

Goals Met/Not Met

	Plowing	Goals
Priority 1	99% Met	6 hr.
Priority 2	72% Met	8 hr.
Priority 3	98% Met	10 hr.

	Bare wheel paths	Goals
Priority 1	100% Met	18 Hr.
Priority 2	95% Met	48 hr.