

CROW WING COUNTY

Snow Event 2-2023-7 January 11, 2023



Reported Event Conditions	
Date:	1/11/2023
Event No:	2-2023-7
Begin Time:	1/11 1AM
End Time:	1/11 7PM
Weather:	Snow
Precipitation:	1.5" Snow
Temperature:	31/17
Wind:	5 MPH

Event Costs	
Salt	\$36,149
Sand	\$0
Brine	\$1,855
Equipment/Fuel	\$24,887
Personnel Reg.	\$6,336
Personnel OT	<u>\$1,996</u>
Total	\$71,223
Cost Mile	\$127
Season Total:	\$769,050

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

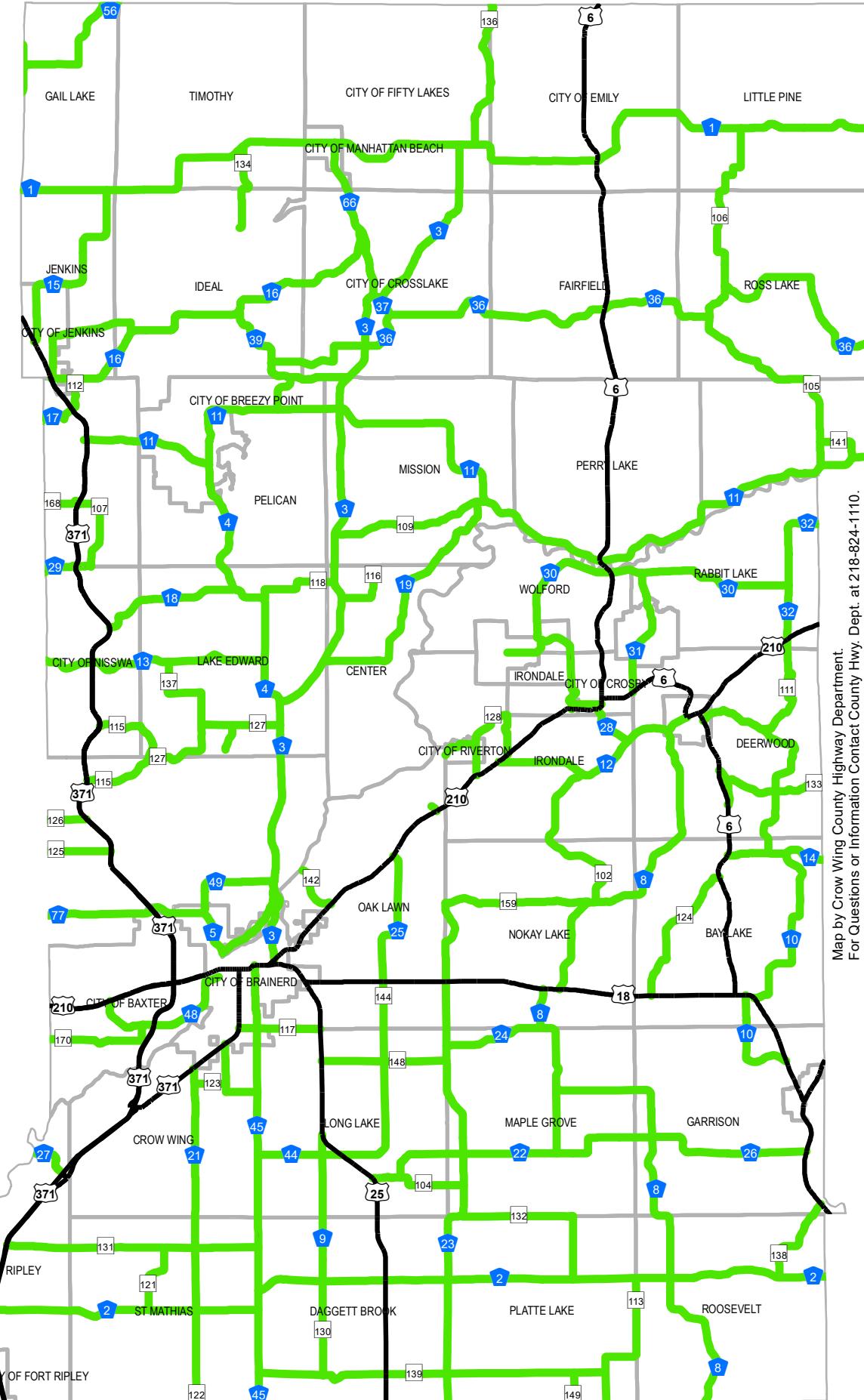
Route Priority

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

Route Target

- Target Achieved
- Target Partly Achieved
- Target Not Achieved

Report Date: 1/13/2023



2022/2023 Summary For Snow Event 2-2023-7

Date 1-11-23

Salt Tons	Salt \$	Sand Tons	Sand \$	Brine gal	Brine \$	Mat. Total	Equip \$	Reg. Personnel	OT \$
249.3	\$36,149	0	\$0	2810.8	\$1,855	\$38,004	\$24,887	\$6,336.00	\$1,996

Total \$71,223

14.6 Plow hrs.

\$4,880 per/hr.

234 Man hrs.

\$127 per/CL/mile

\$2.69 per/household for entire County

Forecast

Misty rain forecasted to start 1/10/23 10:00 p.m. 3/4" of snow expected 3:00 a.m. until 8 a.m. with 5 mph winds on 1/11/23. The forecast changed overnight to rain starting at 2:00 a.m. 1/11/23 and transitioning to snow around 5 a.m. 1/11/23. The snow was forecasted to continue until 4:00 p.m. to the north and 9:00 p.m. to the south 1/11/23, with winds increasing 10-25 mph 1/12/23.

Pre Plan

Monitor early morning conditions and send plows out at 7:00 a.m. 1/11 or earlier if needed to patrol routes and apply 250 lbs. of salt material to slippery spots.

Actual Event

Event start: 1/11/23 1:00AM

Event ended 1/11/23 7:00PM

Details/Comments

At 6:00 am 1/11 we decided to have the trucks patrol and apply 300 lbs on centerlines, in hopes the salt would not allow ice to form as the humidity increased, the pavement temps dropping with daybreak and that the salt would keep working with the 3/4" of snow forecasted to fall. The snow fell and covered the roads. The salt was working but couldn't keep up during the day. The plows began scraping the roads around 10:00 a.m. 1/11/23. The plan was to continue working later in hopes we meet all of our goals for plowing and bare wheel paths. The crews came back in at 5:00 a.m. 1/12/23, to clean up shoulders and any areas that need attention. 1.5" north and about an 1" south of fluffy wet snow totals for the event.

Conditions

Mid 20's temps. Misty rain in the A.M. transitioning to snow around 8:00 am 1/11/23. Winds light < 5.

Road	Road Temp	Date	Time	Air Temp
Hwy 6	26	1/11/23	7:00AM	26
Hwy 25	27	1/11/23	7:00AM	24
Hwy 6	29	1/11/23	7:00PM	29
Hwy 25	29	1/11/23	7:00PM	30
Hwy 6	21	1/12/23	5:00AM	19
Hwy 25	23	1/12/23	5:00AM	19

Date	High	Low
1/10/2023	30	26
1/11/2023	31	17
1/12/2023	20	3

Source: weather.com. Monthly Weather. 56401

Summary

Roads cleaned up well with the warmer temps, salt applications and continued plowing during the event. All roads met bare wheel path goals in the evening of 1/11/23.

Decisions Made

Plowing late during the event and salt application of 300 lbs.

Lessons Learned

Plowing late during the event helped us reach goals. Salt application was right because the drive lanes melted off but the shoulders still had a light layer of snow and ice, meaning the salt wasn't applied to heavy to melt all the way to the shoulders.

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.