

CROW WING COUNTY

November 14, 2021 Snow Event #9 - 2021 - #2



Reported Event Conditions	
Date:	11/14/2021
Event No:	#9-2021-#2
Begin Time:	11-13-21 6PM
End Time:	11-14-21 12AM
Weather:	Snow/Rain
Precipitation:	3"
Temperature:	38°/32°
Wind:	5-10 MPH

Event Costs	
Salt	\$14,720
Sand	\$0
Brine	\$1,061
Equipment/Fuel	\$18,173
Personnel Reg.	\$5,960
Personnel OT	\$1,437
Total	\$41,351
Cost Mile	\$74
Season Total:	\$50,744

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

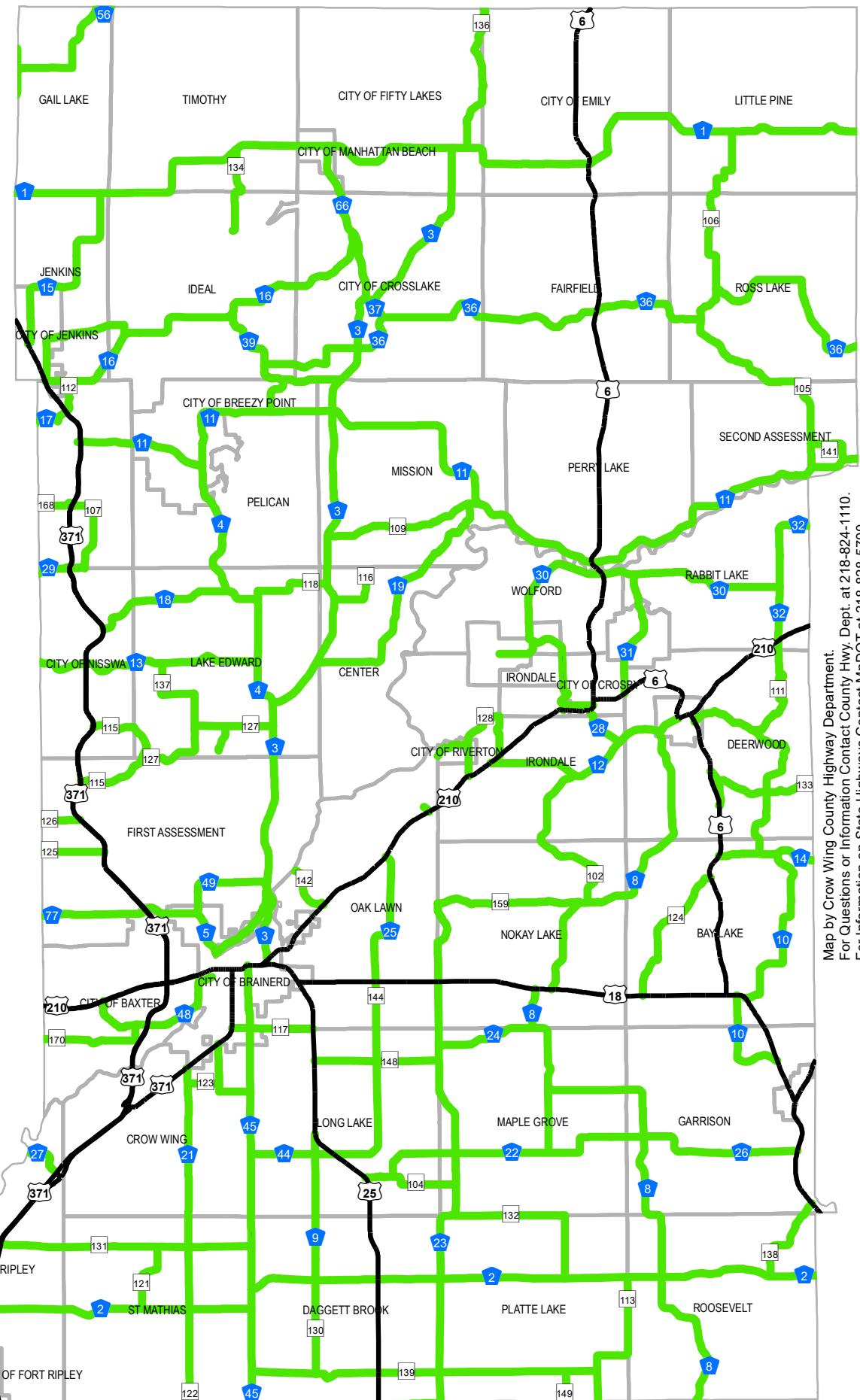
Route Priority

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

Route Target

- Target Achieved
- Target Partly Achieved
- Target Not Achieved

Report Date: 11/17/2021



2020/2021 Summary For Snow Event #9 - 2021 - #2

Date 11-14-21

Salt Tons	Salt \$	Sand Tons	Sand \$	Brine gal	Brine \$	Mat. Total	Equip \$	Reg. Personnel	OT \$
184	\$14,720	0	\$0	1608	\$1,061	\$15,781	\$18,173	\$5,960.00	\$1,437

Total \$41,351

213 Plow hrs.

\$194 per/hr.

14.20 Man hrs.

\$74 per/CL/mile

\$1.56 per/household for entire County

Forecast

2.5" of snow forecasted to start falling 11/13 @ 2:00 p.m. and comtinue until 11/14 @ midnight.

Pre Plan

Begin plowing at 1:a.m. on 12/14 and apply 200 lbs of salt. Anticipated it to be similar to Friday's snow.

Actual Event

Event start: 12/13/2021 6:00PM

Event ended 12/14 1:00 a.m.

Comments

Severe compaction due to the moisture in the snow and traffic packing it down. We bummped the salt application up to 400 lbs per mile when we started plowing.

Conditions

Cool temps and lots of compaction.

Road	Road Temp	Date	Time	Air Temp
Cr 11	29	11/14/21	2:00AM	31

Date	High	Low
11/12/2021	34	28
11/13/2021	31	26
11/14/2021	30	20
11/15/2021	33	28
11/16/2021	38	32

Source: weather.com. Monthly Weather. 56401

Summary

Lots of compaction that we could not scrape off. We had to apply and let the salt work, which was slow until about 10:00 a.m. Lots of slush present that did not liquidize as anticipated, leaveing snow/slush outside of the wheel paths.

Decisions Made

Scrape everything except for gravel roads. Apply 400 lbs of salt to centerline and let the salt breakup the compation and melt open.

Lessons Learned

The salt worked but the amount of compaction and its density did not liquidfy as anticiapted, leaving bare wheel paths but slush and snow in the centerline, between the wheel paths and on the shoulders. We should have come back in and recscraped all roads at sunset on 11-14.

Goals Met/Not Met

Plowing	Goals
Priority 1	Met
Priority 2	Met
Priority 3	Met
	6 hr.
	8 hr.
	10 hr.

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