

CROW WING COUNTY

Snow Event 1-2024-5 Jan. 5-7, 2024



Reported Event Conditions

Date:	1/5-7/24
Event No:	1-2024-5
Begin Time:	1/5/24 6AM
End Time:	1/7/24 3AM
Weather:	Snow
Precipitation:	4" Snow
Temperature:	36/18
Wind:	5-15 MPH

Event Costs

Salt	\$28,896
Sand	\$0
Brine	\$2,876
Equipment/Fuel	\$54,225
Personnel Reg.	\$4,432
Personnel OT	\$10,700
Total	\$101,129
Cost Mile	\$181
Season Total:	538K

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%

Legend

— MnDOT Highway

Route Priority

— 1 (ADT>5000)

===== 2 (500>ADT<5000)

===== 3 (ADT<500)

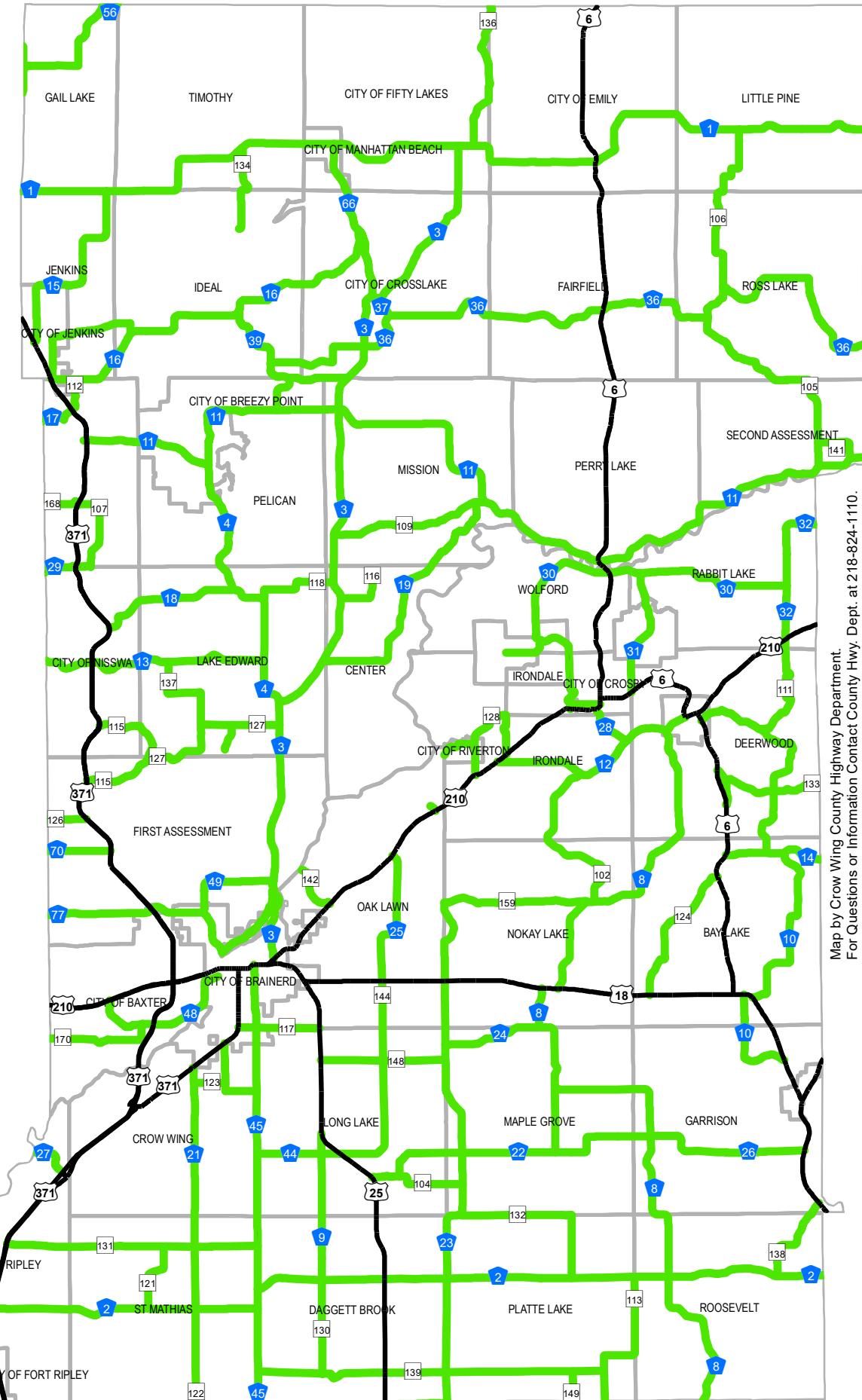
Route Target

Target Achieved

Target Partly Achiev

— Target Not Achieved

Report Date: 1/8/2024



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 1-2024-5

Date 1-5-6-24

Salt Tons	Salt \$	Sand Tons	Sand \$	Brine gal	Brine \$	Mat. Total	Equip \$	Reg. Personnel	OT \$
344	\$28,896	0	\$0	4357	\$2,876	\$31,772	\$54,225	\$4,432.00	\$10,700

Total \$101,129 23.3 Plow hrs. \$4,338 per/hr.
 373 Man hrs. \$181 per/CL/mile
 \$3.81 per/household for entire County

Forecast

Light rain starting at 9:00 a.m. 1/5/24, then changing over to snow at 5:00 p.m. and continuing until 10:00 a.m. 1-6-24. Temps in the mid 30s with light east winds.

Pre Plan

Have snowplows patrol once the rain starts, apply 150 lbs. of salt on centerlines. Come in at 6:00 a.m. on 1/6/23 to plow and continue into the evening. Apply 300 lbs. on centerline.

Actual Event

Event start: 1/5/24 6:00AM

Event ended 1/7/24 3:00AM

Details/Comments

Rain started earlier than forecasted and continued until throughout the day on 1/5/24. Snow began to fall late 1/5/24 and continued until 1/7/24 at 3:00 a.m. temps were in the upper 20s and wind was light.

Conditions

Temps in the upper 20s to low 30s. 4" of snow fell.

Road	Road Temp	Date	Time	Air Temp
Hwy 6	33	1/5/2024	6:00AM	36
Hwy 25	33	1/5/2024	6:00AM	36
Hwy 6	34	1/6/2024	6:00AM	32
Hwy 25	35	1/6/2024	6:00AM	32
Hwy 6	20	1/7/2024	3:00AM	19
Hwy 25	21	1/7/2024	3:00AM	21

Date	High	Low
1/4/2024	20	17
1/5/2024	29	27
1/6/2024	30	12
1/7/2024	18	8
1/8/2024	23	17

Source: weather.com. Monthly Weather. 56401

Summary

Long snowfall duration added up to 4". Roads cleaned up well even with the rain early. All goals met.

Decisions Made

Start salting early on Friday to combat the freezing. Come in early on Saturday to plow and get the roads melting and back early Sunday morning to scrape and reapply material to promote bare wheel paths worked well.

Lessons Learned

Early and consistent plowing along with material application worked well.

Goals Met/Not Met

Plowing		Goals	Bare wheel paths		Goals
Priority 1	Met	6 hr.	Priority 1	Met	18 Hr.
Priority 2	Met	8 hr.	Priority 2	Met	48 hr.
Priority 3	Met	10 hr.			