

CROW WING COUNTY

Storm Event 4-2024-8 March 22, 2024



Reported Event Conditions

Date:	3/22/2024
Event No:	4-2024-8
Begin Time:	3/21/24 9PM
End Time:	3/22/24 6AM
Weather:	Rain/Snow
Precipitation:	1.5" Snow
Temperature:	33/9
Wind:	5 MPH

Event Costs

Salt	\$11,495
Sand	\$0
Brine	\$1,717
Equipment/Fuel	\$15,765
Personnel Reg.	\$4,770
Personnel OT	\$856
Total	\$34,610
Cost Mile	\$62
Season Total:	846K

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

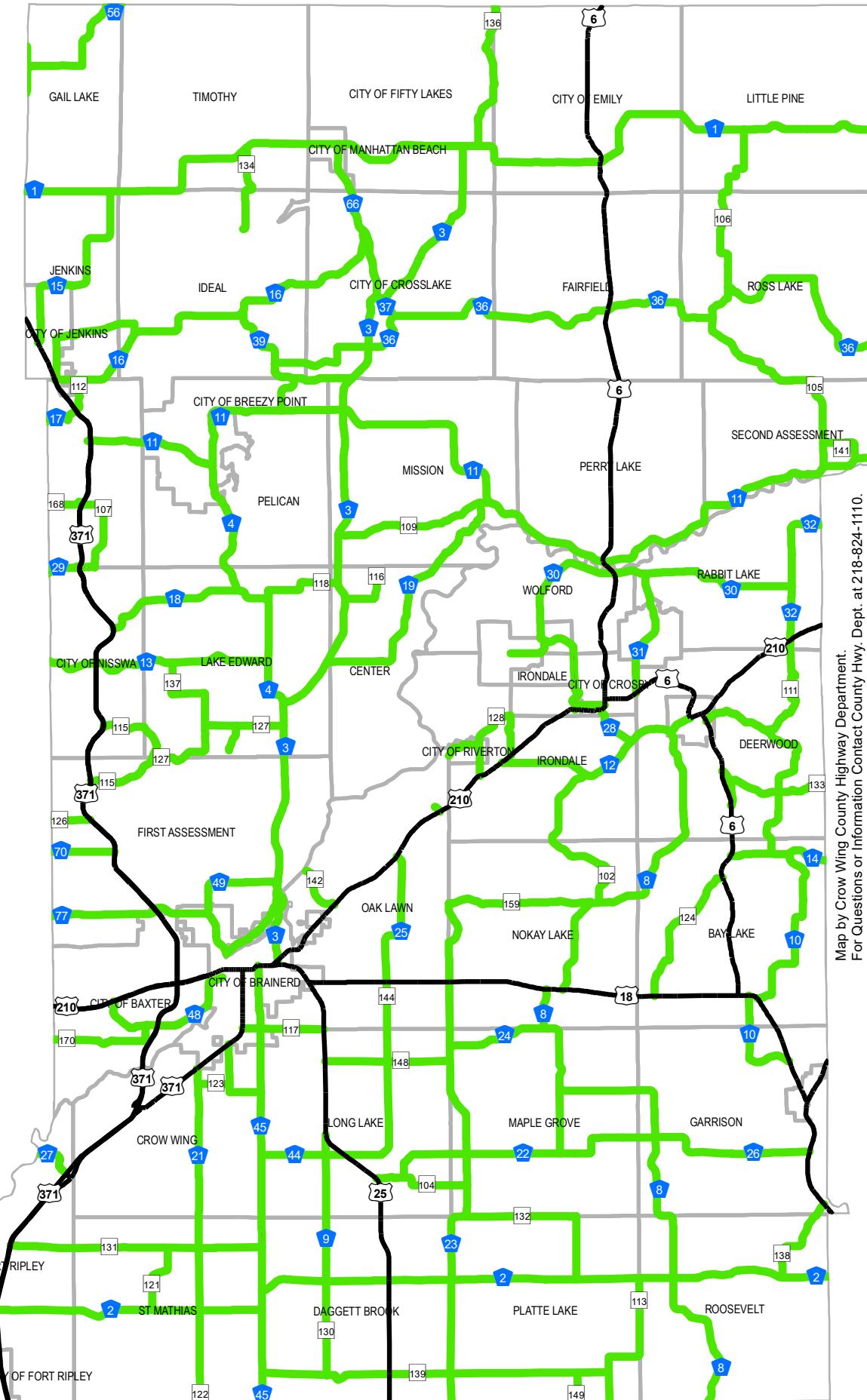
Route Priority

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

Route Target

- Target Achieved
- Target Partly Achieved
- Target Not Achieved

Report Date: 3/24/2024



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.

2023/2024 Summary For Snow Event 4-2024-8

Date 3/22/24

Salt Tons	Salt \$	Sand Tons	Sand \$	Brine gal	Brine \$	Mat. Total	Equip \$	Reg. Personnel	OT \$
121	\$11,495	0	\$0	2602	\$1,717	\$13,212	\$15,765	\$4,777.00	\$856

Total \$34,610

7.9 Plow hrs.

\$4,378 per/hr.

127 Man hrs.

\$62 per/CL/mile

\$1.31 per/household for entire County

Forecast

4" of snow expected to fall beginning at 10:00p.m. 3/21/24 and end 6:00 a.m. 3/22/24. Temps in the low 20s with 5 mph winds. The amount of snow forecasted declined considerably the closer it got to 3/22/24.

Pre Plan

Begin anti-icing 3/21/24 to aid in the prevention of snow bonding to critical areas. Begin plowing at 4:00 a.m. 3/22/24 and apply 200-300 lbs. of salt per mile to melt compaction.

Actual Event

Event start: 3-21-24 9:00PM

Event ended 3-22-24 6:00AM

Details/Comments

Snow totals declined considerably and we saw an inch to 1.5" total through most of the County.

Conditions

Mild temps in the 20s with very little wind. Some compaction in slow moving, heavy traffic areas.

Road	Road Temp	Date	Time	Air Temp
Hwy 6	37	3/21/24	2100	26
Hwy 25	36	3/21/24	2100	26
Hwy 6	25	3/22/24	300	21
Hwy 25	30	3/22/24	300	22
Hwy 6	45	3/22/24	1200	26
Hwy 25	45	3/22/24	1200	27

Date	High	Low
3/20/2024	28	15
3/21/2024	33	18
3/22/2024	32	9
3/23/2024	33	21

Source: weather.com. Monthly Weather. 56401

Summary

Roads cleaned up well.

Decisions Made

Apply salt brine anti-ice on 3/21/24. Begin plowing at 3/22/24 and apply 300 lbs. of salt.

Lessons Learned

Early start and 300 lbs. of salt worked well along with warmer temps to achieve our goals.

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.