

# CROW WING COUNTY

## Snow Event 18-2023-2 Dec. 9, 2023



### Reported Event Conditions

Date:	12-9-23-
Event No:	18-2023-2
Begin Time:	12/9 6AM
End Time:	12/9 6PM
Weather:	Snow
Precipitation:	2" Snow
Temperature:	33/26
Wind:	15-30 MPH

### Event Costs

Salt	\$34,680
Sand	\$204
Brine	\$2,864
Equipment/Fuel	\$50,265
Personnel Reg.	\$5,937
Personnel OT	\$10,338
<b>Total</b>	<b>\$104,288</b>
Cost Mile	\$186
Season Total:	240K

### Priority By Route

#### Priority 1

% Target 1A Met:	100%
% Target 1B Met:	89%

#### Priority 2

% Target 2A Met:	100%
% Target 2B Met:	96%

#### Priority 3

% Target 3A Met:	100%
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— MnDOT Highway

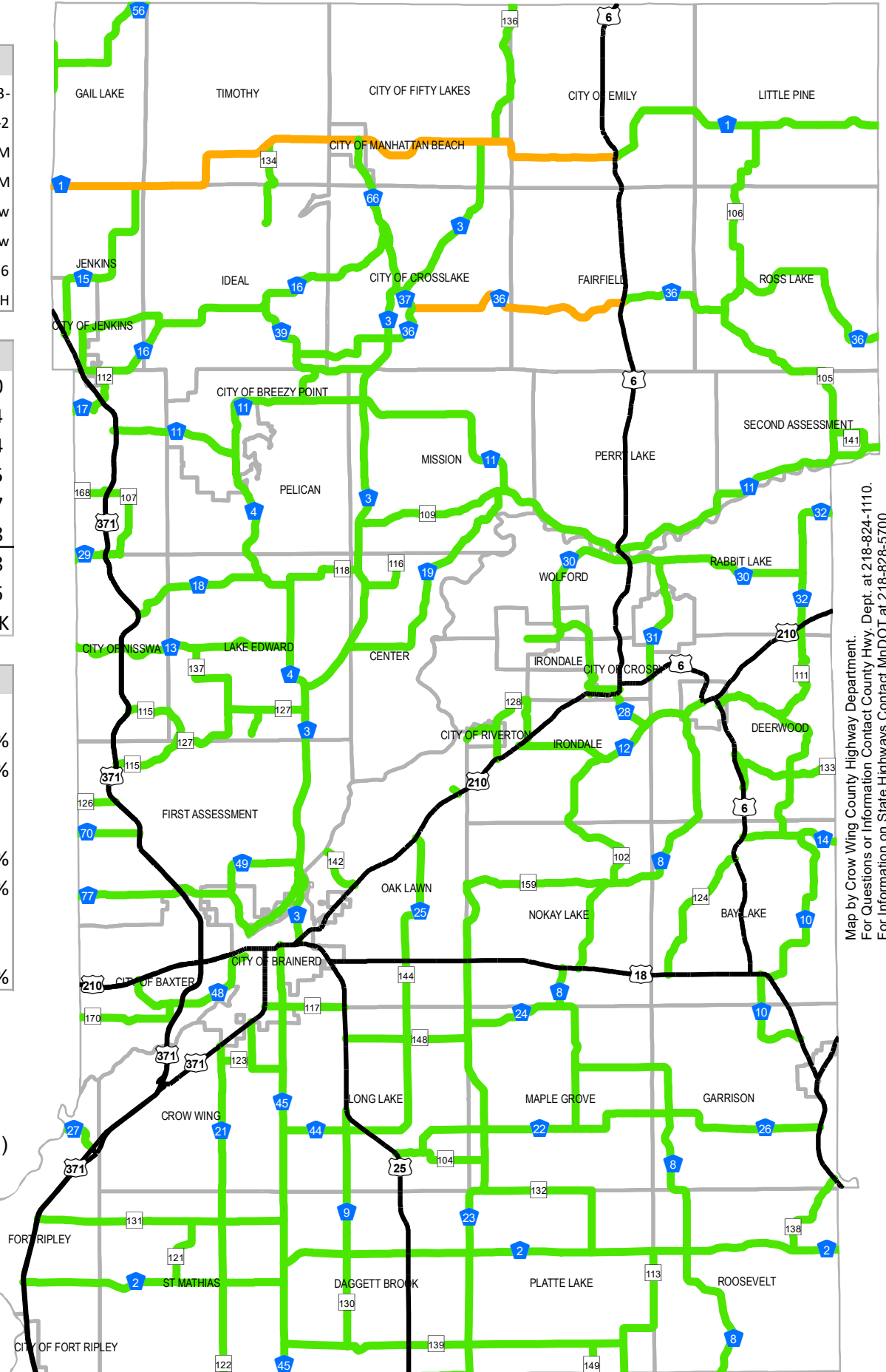
### Route Priority

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

### Route Target

- Target Achieved
- Target Partly Achieved
- Target Not Achieved

Report Date: 12/22/2023



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 18-2023-2

Date 12/9/23

Salt Tons	Salt \$	Sand Tons	Sand \$	Brine gal	Brine \$	Mat. Total	Equip \$	Reg. Personnel	OT \$
408	\$34,680	6	\$204	4339	\$2,864	\$37,748	\$50,265	\$5,937.00	\$10,338

**Total** \$104,288

21.8 Plow hrs.

\$4,795 per/hr.

348 Man hrs.

\$186 per/CL/mile

\$3.93 per/household for entire County

### Forecast

3/4" of snow expected. Temps mid 30s to upper 20s. Forecasted start time 6 a.m 12/9/23 and end at 6:00 p.m. 12-9-23.

### Pre Plan

Watch the roads to see if travel is effected. If traffic is, we will deploy snowplows to begin treating roads at 200 lbs. on centerline.

### Actual Event

**Event start:** 12-9-23 6:00AM

**Event ended** 12/10/23 6:00PM

### Details/Comments

Wet snow fell and began to stick to the roads around noon to the north and to the south early afternoon. Temps hovered around 33.

### Conditions

33 degrees, wet snow, additional 2" of snow compared to forecast, and 20 mph winds.

Road	Road Temp	Date	Time	Air Temp
Hwy 6	32	12\9\23	6:00AM	33
Hwy 25	33	12\9\23	6:00AM	33
Hwy 6	26	12\9\23	6:00PM	27
Hwy 25	27	12\9\23	6:00PM	27

Date	High	Low
12/8/2023	42	32
12/9/2023	34	20
12/10/2023	22	17
12/11/2023	29	16
12/12/2023	25	15

Source: weather.com. Monthly Weather. 56401

### Summary

Wet snow packed with traffic. The snow rate and the amount of snow was more than could melt. 2" of additional snow fell to the north than what was forecasted. Bare wheel path goals not met on Cr 1 & 36.

### Decisions Made

Called snowplows in late morning in the north and early afternoon in the south to deal with snow starting to stick to the roads. Pretreatment anti-ice worked where applied but diluted with the continued snowfall

### Lessons Learned

A higher rate of salt should have been applied right away. This type of event and road temps should have melted off easily. The wind blowing the snow, causing it to stick along with the additional 2" of snow to the north impeded us from reaching our goals on some roads.

### 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 Not Met	18 Hr.
Priority 2 Met	48 hr.