

# CROW WING COUNTY

## February 14, 2022 Snow Event #5 - 2022 - #12



## Reported Event Conditions

Date: 2/14/2022  
Event No: #5-2022-#12  
Begin Time: 2/13 5PM  
End Time: 2/14 2AM  
Weather: Snow  
Precipitation: 1.5" Snow  
Temperature: 15\7  
Wind: 10 - 20 MPH

## Event Costs

|                |           |
|----------------|-----------|
| Salt           | \$12,626  |
| Sand           | \$0       |
| Brine          | \$882     |
| Equipment/Fuel | \$22,970  |
| Personnel Reg. | \$7,700   |
| Personnel OT   | \$1,658   |
| Total          | \$45,836  |
| Cost Mile      | \$82      |
| Season Total:  | \$889,655 |

## Priority By Route

## Priority 1

% Target 1A Met: 100%  
% Target 1B Met: 92%

## Priority 2

% Target 2A Met: 100%  
% Target 2B Met: 92%

### Priority 3

% Target 3A Met: 100%

— MnDOT Highway

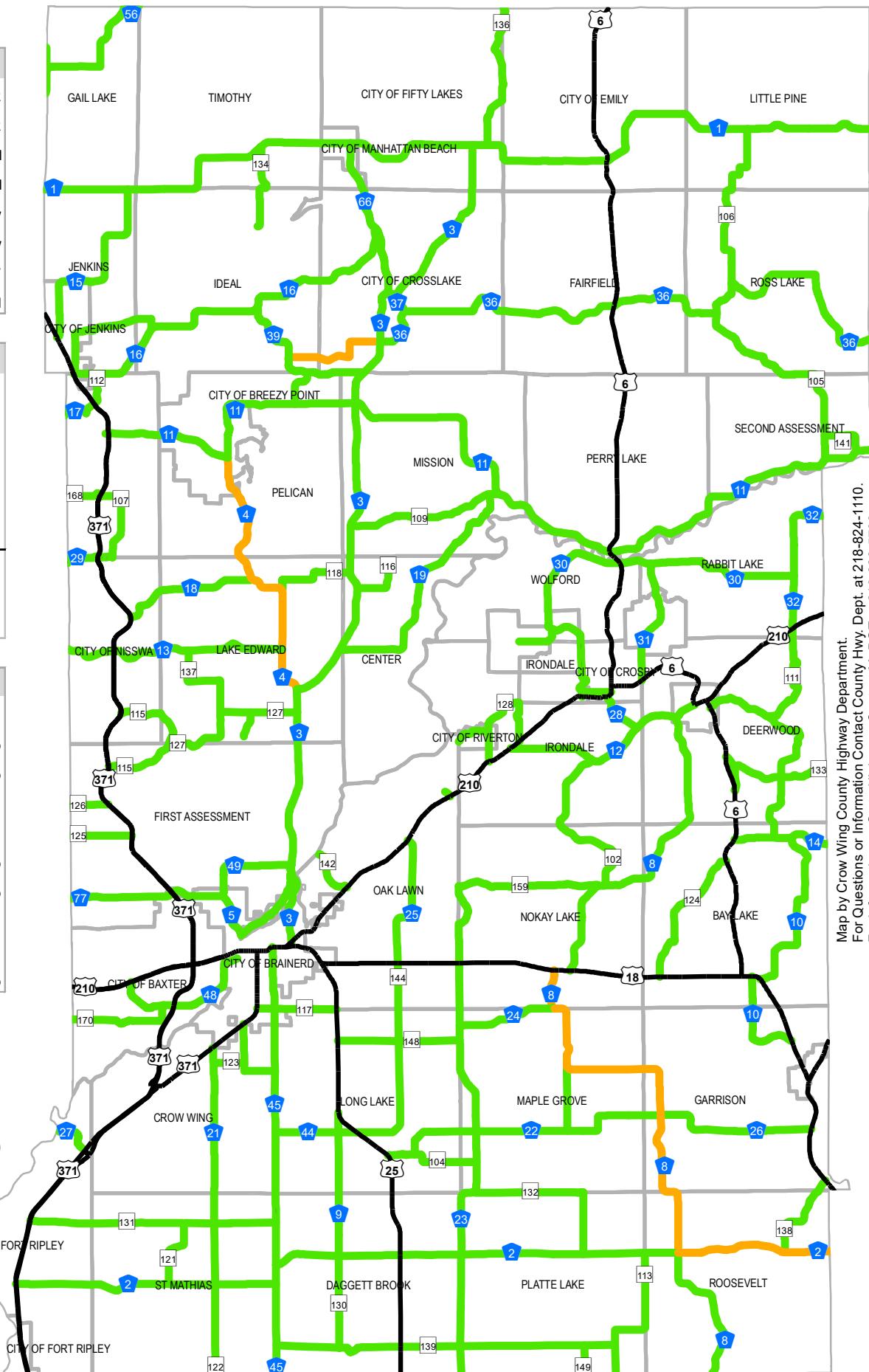
## Route Priority

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

## Route Target

- Target Achieved
- Target Partly Achieved
- Target Not Achieved

Report Date: 2/18/2022



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.

## 2021/2022 Summary For Snow Event #5 - 2022 - #12

Date 2-13-22

| Salt Tons | Salt \$  | Sand Tons | Sand \$ | Brine gal | Brine \$ | Mat. Total | Equip \$ | Reg. Personnel | OT \$   |
|-----------|----------|-----------|---------|-----------|----------|------------|----------|----------------|---------|
| 138.75    | \$12,626 | 0         | \$0     | 1336.3    | \$882    | \$13,508   | \$22,970 | \$7,700.00     | \$1,658 |

**Total** \$45,836

17.2 Plow hrs.

\$2,662 per/hr.

275.50 Man hrs.

\$82 per/CL/mile

\$1.73 per/household for entire County

### Forecast

1" of snow forecasted to fall 2/13/22 starting at 4:00 PM and continuing until 1:00 AM 2/14/22. Cold temps.

### Pre Plan

Begin plowing at 3:00 AM 2/14/22 and apply 500 lbs. of treated salt to intersections if slippery.

### Actual Event

**Event start:** 2/13/22 5:00PM

**Event ended** 2/14/22 2:00AM

### Comments

Snow tapered off at 2:00 AM 2/14/22. Plows began plowing at 3:00 AM 2/14/22. Roads cleaned up well for the most part. Wind did cause some slight blowing and refreeze issues.

### Conditions

Snow ended and the plows were able to quickly plow and scrape the snow off before it compacted terribly. Very cold temps when plowing. Roads started to open up well and melt by afternoon with the sun. Some isolated areas of refreezing were observed.

| Road  | Road Temp | Date    | Time    | Air Temp |
|-------|-----------|---------|---------|----------|
| Hwy 6 | 9         | 2/13/22 | 5:00PM  | -1       |
| Hwy25 | 13        | 2/13/22 | 5:00PM  | 0        |
| Hwy 6 | 5         | 2/14/22 | 10:00AM | 0        |
| Hwy25 | 14        | 2/14/22 | 10:00AM | 3        |
|       |           |         |         |          |
|       |           |         |         |          |

| Date      | High | Low |
|-----------|------|-----|
| 2/12/2022 | 3    | -20 |
| 2/13/2022 | 3    | -7  |
| 2/14/2022 | 15   | -4  |
| 2/15/2022 | 24   | 17  |
| 2/16/2022 | 21   | -12 |
|           |      |     |

Source: weather.com. Monthly Weather. 56401

### Summary

Priority 1 roads opened up well with traffic the afternoon of 2-14. A couple of roads refroze over night and were icy in a few spots, not allowing us to reach 100% of our goals. Plows went out again on 2-15 to address snow that blew into the center of the roads and stubborn snow compacted on priority 2s and 3s roads.

### Decisions Made

Start plowing at 3:00 am 2-14, shortly after the snow ended. Apply 500 lbs. of treated salt to intersections only, due to the blowing snow and very cold temps. Rerun and check roads on 2-15 to remove any compaction and treat spots needing salt to achieve our goals, since the temperatures will be more favorable for salt.

### Lessons Learned

Spot treating intersections worked well. The sun's power is noticeable now that we are to mid February. Roads slushed a bit in spots and refroze in some shaded areas.

### Goals Met/Not Met

| Plowing    | Goals |
|------------|-------|
| Priority 1 | Met   |
| Priority 2 | Met   |
| Priority 3 | Met   |

| Bare wheel paths | Goals   |        |
|------------------|---------|--------|
| Priority 1       | Not Met | 18 Hr. |
| Priority 2       | Not Met | 48 hr. |