

# CROW WING COUNTY

## Jan. 9, 2017 Snow Event #9 2017-2

## Reported Event Conditions

Date: 1/9/2017  
Event No: #9 2017-2  
Begin Time: 1/8/17 3PM  
End Time: 1/11/17 10AM  
Weather: Snow/Rain  
Precipitation: 6" SN./2 RN  
Temperature: 21\-\-24  
Wind: 15-30

## Event Costs

Salt	\$4,367
Sand	\$12,111
Brine	\$3,239
Equipment/Fuel	\$48,533
Personnel Reg.	\$20,268
Personnel OT	\$3,255
Total	\$91,773
Cost Mile	\$164
Season Total:	\$774,790

## Priority By Route

## Priority 1

% Target 1A Met: 100%  
% Target 1B Met: 30%

## Priority 2

% Target 2A Met: 100%

## Priority 3

## MnDOT Highway

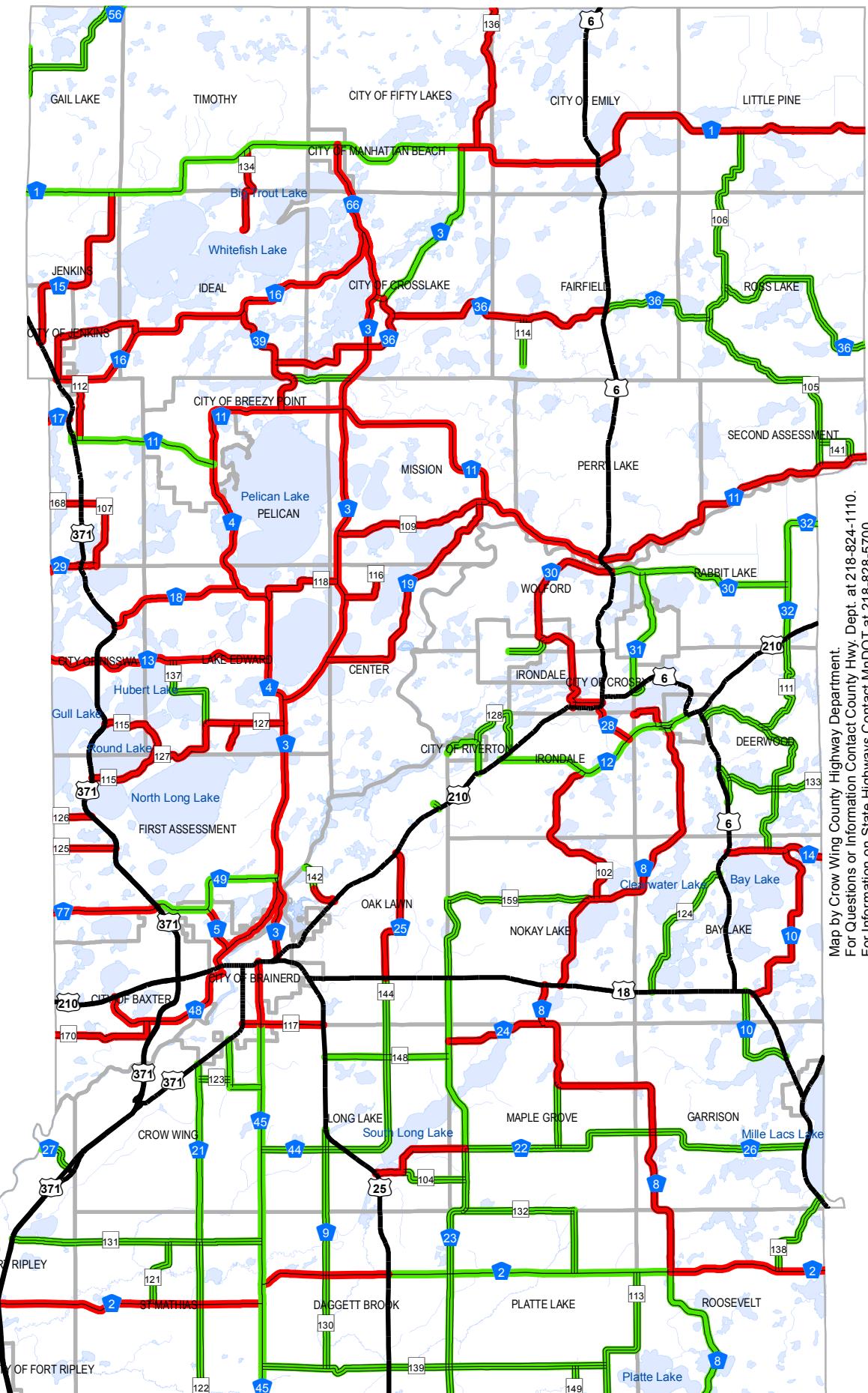
## Route Priority

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

## Route Target

- Target Achieved
- Target Not Achieved

Report Date: 1/19/2017



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.

# 2016/2017 Summary For Snow Event #9 2017-2 Iras

## Date 1-9-17

Salt Cyds	Salt \$	Sand Cyds	Sand \$	Brine gal	Brine \$	Mat. Total	Equip \$	Reg. Personnel	OT \$
50.25	\$4,367	367	\$12,111	4907	\$3,239	\$19,717	\$48,533	\$20,268.00	\$3,255

Total \$91,773

<b>Total</b>	\$91,773	33 hrs =	\$2,781 per/hr	661 man hours
			\$164 per/CL/Mile	

## Forecast

Flurries forecasted 1-8-17. 1-3" Forecasted for Monday. 1-3" forecasted for Tuesday.

Flurries forecasted 1-11-17 in the A.M.

## Pre Plan

Start plows at 5:00 A.M. on 1-9-17. Have the plows stay late if continued snow impacts evening commute.

Start plows at 5:00 A.M. on 1-10-17. Have the plows stay late if continued snow adds up.

Start plows at 7:00 A.M. on 1-11-17. Apply sand to criticals.

## Comments

Started plowing at 5:00 A.M. on 1-9-17. Did not stay late because there wasn't enough snow to plow and it blew off the priority 1 roads.

Started at 5:00 A.M. on 1-10-17. Stayed till 5:30 P.M. replowing roads.

Started at 7:00 A.M. 1-11-17. Roads froze down hard and scraping and sanding did not help much.

Plowed everyday and applied sand. Treated CR 11 east of CR 3 with treated salt and sand 1-14 & 1-15

## Conditions

## Heavy snow and strong winds 1-10-17.

Falling temps on 1-11-17.

Cold.

Road	RDTemp	Date/Time		Air Temp
142	10	1\9\17	5 A.M.	10
25	19	1\10\17	5 A.M.	20
142	10	1\11\17	6 A.M.	-1
142	-8	1\12\17	8 A.M.	-14

Date	High	Low
1/6/2017	2	-24
1/7/2017	6	-11
1/8/2017	11	-17
1/9/2017	21	5
1/10/2017	21	-5
1/11/2017	6	-5
1/12/2017	4	-22

## Summary

On 1-9 priority 1 roads had bare drive lanes before we started to plow. After we plowed the centerline ribbon of snow we got a thin layer of ice across the entire road. More snow and traffic helped break the thin layer of snow.

We got the snow off quickly but the cold temps did not allow the ice to be removed.

## Decisions Made

Start times at 5 A.M. to try and clean up the snow, with less impact on traffic and to balance the crew in between snowfalls worked well.

### Sand at critical areas

We tried a treated salt/ sand mixture to try and provide traction and keep the sand on the road CR 3.

### **Lessons Learned**

Sand did not stay on the roads. Traffic blew it off and the roads remained slippery.

Salt would not have been effective. MNDOT had icy roads too. We tried treated salt with sand to try and keep the sand on the road. It did not provide any benefit, the sand still blew off because of cold temps.

### **Goals Met/Not Met**

#### Plowing

Priority 1	Met
Priority 2	Met
Priority 3	Met

#### Bare wheel paths

Priority 1	Not Met
Priority 2	Not Met

Roads finally started to loosen up 1-18 -1-20 with warmer temps.