

CROW WING COUNTY

January 22, 2019 Snow Event #2 - 2019 Indra

Reported Event Conditions	
Date:	1/22/2019
Event No:	#2-2019 Indra
Begin Time:	1/21/19 2 PM
End Time:	1/22/19 9 AM
Weather:	Snow
Precipitation:	6"
Temperature:	18/-15
Wind:	15-40 MPH

Event Costs	
Salt	\$18,679
Sand	\$3,264
Brine	\$2,449
Equipment/Fuel	\$22,950
Personnel Reg.	\$9,539
Personnel OT	\$1,760
Total	\$58,640
Cost Mile	\$105
Season Total:	\$385,266

Priority By Route	
Priority 1	
% Target 1A Met:	100%
% Target 1B Met:	93%
Priority 2	
% Target 2A Met:	100%
% Target 2B Met:	97%
Priority 3	
% Target 3A Met:	100%

Legend

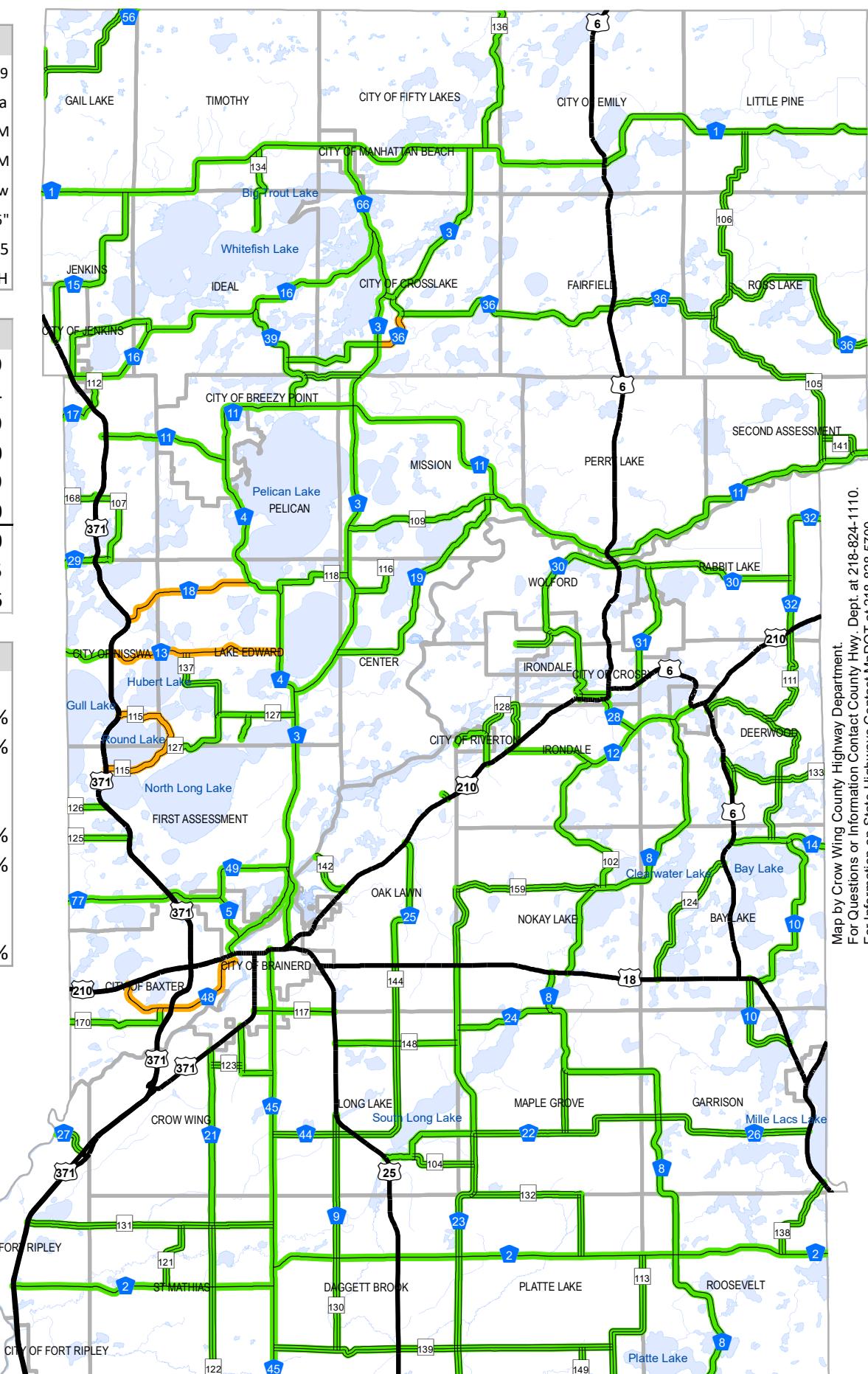
— MnDOT Highway

Route Priority

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

Route Target

- Target Achieved
- Target Partly Achieved
- Target Not Achieved



2018/2019 Summary For Snow Event #2 - 2019 Indra

Date 1-22-19

Salt Tons	Salt \$	Sand Tons	Sand \$	Brine gal	Brine \$	Mat. Total	Equip \$	Reg. Personnel	OT \$
219.75	\$18,679	96	\$3,264	3710	\$2,449	\$24,391	\$22,950	\$9,539.00	\$1,760

Total \$58,640

Forecast

Snow forecasted to start falling at noon on 1/21/19. Strong winds 15-20 mph with single digit temperature. 3"-8" of snow forecasted to fall between noon 1/21 and noon 1/22.

Pre Plan

Monitor the roads on 1/21 and dispatch plows if conditions warrant going out.

Begin plowing at 3:00 1/22 and apply 400 pounds of 50% sand / 50% treated salt mix at intersections.

With the forecasted continuing snowfall, snow plows will go over their routes again mid morning on 1/22 to scrape and reapply salt/sand. If conditions warrant it, trucks will switch to treated salt.

Start at 6:00 AM 1/23 to scrape any remaining compaction and apply 600 lbs. of treated salt where needed.

Comments

Pavement temps might not allow salt to work effectively.

50/50 treated mix applied in case the pavement temps allow salt to work and sand for traction if not.

Truck 1821 blew a belt and was down for 2 hours putting the route behind.

Conditions

Continued snowfall until 9:00 a.m. 1/22.

Very little wind when the trucks were dispatched.

Road	RDTemp	Date/Time		Air Temp
Hwy 6	2	1\21\19	9:00 AM	2
Hwy 6	9	1\22\19	9:00 AM	10
Hwy 25	12	1\22\19	9:00 AM	9
Cr 11	8	1\23\19	6:00 AM	2
Hwy 371	24	1\22\19	1:00 PM	17

Date	High	Low
1/20/2019	2	-21
1/21/2019	13	-15
1/22/2019	18	-4
1/23/2019	18	2
1/24/2019	16	-18
1/25/2019	-2	-26

Summary

About 3" of snow south half of the county and 7" north half of the county. Very cold lows not allowing the salt to work effectively until afternoon 1/22. Most roads met bare wheel path goals except for intersections. Trucks went out 1/23 to scrape center ribbons and intersections and apply treated salt. Roads cleaned up well. Priority 1 roads that did not met goals because of compaction at intersections did the morning of 1/23. County Roads 36, 37 & 115 did not have continuous wheel paths in both directions due to pavement surface

Decisions Made

Scrape roads before the event was complete and turnaround to redo the routes mid morning when it was forecasted to stop snowing worked well.

Starting early on 1/23 to scrape and reapply treated salt worked well to get the remaining snow off the roads.

Lessons Learned

We started plowing and applying 50% treated salt and 50% sand on 1/22 because of pavement temps. In hindsight we feel we may have been able to use 100% treated, but we wanted to ensure traction and with the colder temps, we were not confident the salt would have been effective initially.

Goals Met/Not Met

Plowing		Bare wheel paths	
Priority 1	Met	Priority 1	Not Met
Priority 2	Met	Priority 2	Not Met
Priority 3	Met		