

CROW WING COUNTY

January 24, 2020 Snow Event #4 - 2020 - 15



Reported Event Conditions	
Date:	1/24/2020
Event No:	#4 2020 15
Begin Time:	1-23-20 5 AM
End Time:	1-24-20 8 AM
Weather:	Snow
Precipitation:	2"
Temperature:	33°/23°
Wind:	5-10 MPH

Event Costs	
Salt	\$21,749
Sand	\$187
Brine	\$2,075
Equipment/Fuel	\$18,868
Personnel Reg.	\$7,136
Personnel OT	\$641
Total	\$50,656
Cost Mile	\$90
Season Total:	\$760,796

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%

Legend

— MnDOT Highway

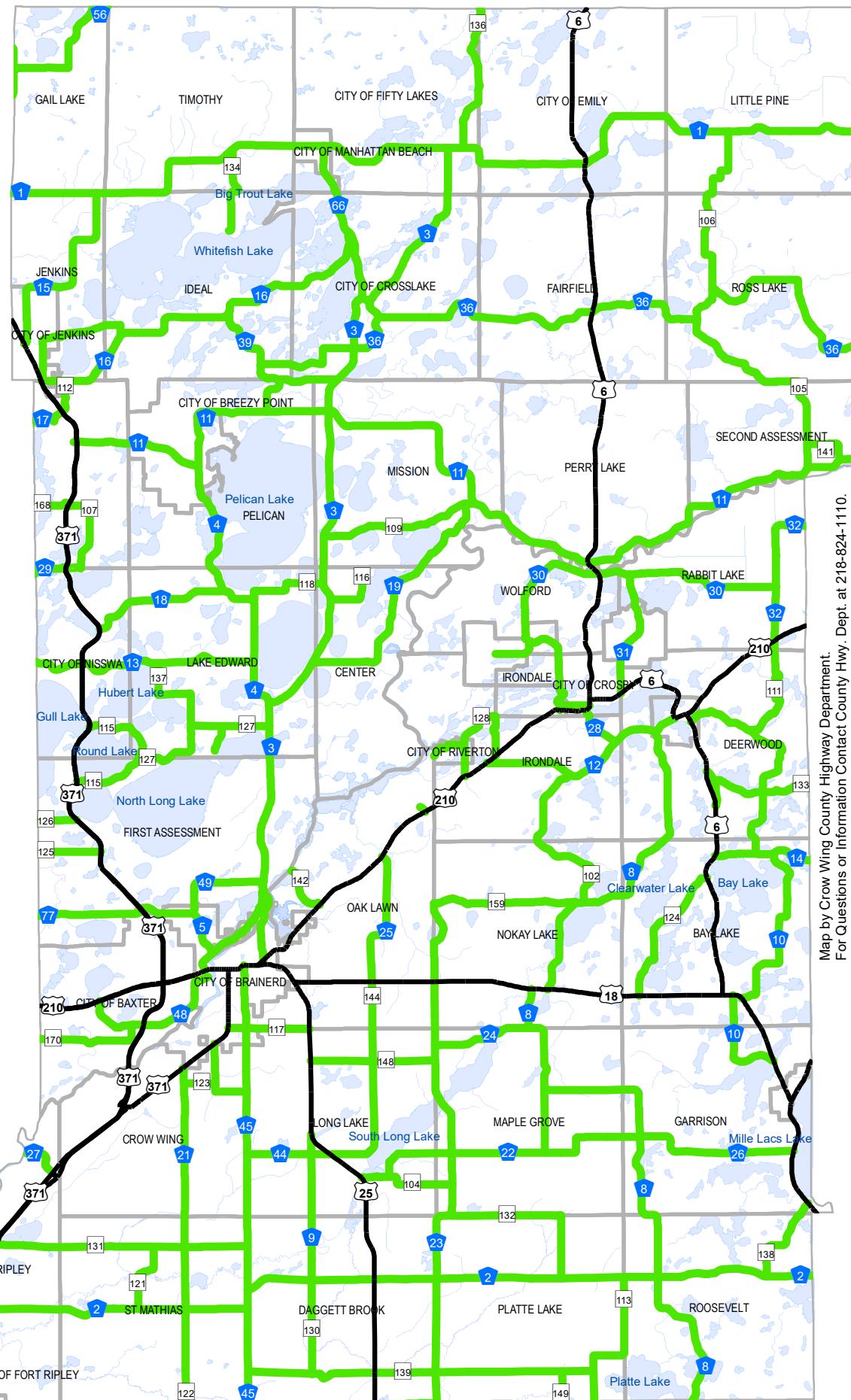
Route Priority

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

Route Target

- Target Achieved
- Target Partly Achieved
- Target Not Achieved

Report Date: 1/27/2020



2019/2020 Summary For Snow Event #4 - 2020 - 15

Date 1-24-20

Salt Tons	Salt \$	Sand Tons	Sand \$	Brine gal	Brine \$	Mat. Total	Equip \$	Reg. Personnel	OT \$
239	\$21,749	5.5	\$187	3144	\$2,075	\$24,011	\$18,868	\$7,136.00	\$641

Total \$50,656

15 Plow hrs.

\$3,377 per/hr.

243 Man hrs.

\$90 per/CL/mile

\$1.91 per/household for entire County

Forecast

1.3" of snow forecasted to fall starting at 5 a.m. 1-23-20 and ending at 3 a.m. 1-24-20. 5-10 mph winds forecasted. Temps 20-30.

Pre Plan

Start plowing at 7 a.m. 1-23 and apply 300 lbs. of salt on centerline to melt snow and ice and keep it melting to hopefully keep it melting throughout the event. Start at 3 a.m. on 1-24-20 if needed to remove any compacted snow or ice.

Actual Event

Event start: 1/23/20 5AM

Event ended 1/24/20 8AM

Comments

Snow began around 5 a.m. on 1-23-20 and ended around 8 a.m. 1-24-20. Temps were in the upper 20s and low thirties on 1-23, in the mid 30s early on 1-24 and then climbed to around 30 in the afternoon. Snow flurries made up this event over two days.

Conditions

2" of snow. Temps in the 20s- low 30s. Continued snow covered and lightly compacted to roads overnight.

Road	Road Temp	Date	Time	Air Temp
Cr 3	29	1/23/20	3:00PM	32
Hwy 6	29	1/24/20	5:00 AM	30

Date	High	Low
1/22/1900	34	17
1/23/2020	33	27
1/24/2020	29	23
1/25/2020	29	23
1/26/2020	24	20

Source: weather.com. Monthly Weather. 56401

Summary

Roads were initially wet and switched to black ice on 1-23 around 7 a.m. Snowplows were out applying salt at 7:30 a.m. and quickly got the roads to start melting again. There was enough snow accumulation to plow multiple times throughout the day on 1-23. All roads met goals and most had bare lanes on 1-23 at 3 p.m. Roads were covered again by 2 a.m. 1-24. Crews resumed plowing at 5 a.m. 1-24. This was a change from our initial plan to start at 3 a.m. because of the forecast change late on 1-23 that had the snow continuing until 9 a.m. instead of ending at 3 a.m. on 1-24. The snow actually ended at 8 a.m. on 1-24.

Decisions Made

We decided to start plowing at 7 a.m. 1-23-20 to apply material to keep the roads melting continually, throughout the day with the continually falling snow. We applied 300 lbs. of salt on 1-23 and it worked well throughout the day. We started plowing again at 5 a.m. 1-24 and applied 400 lbs. to get the compaction to melt.

Lessons Learned

300 lbs. of salt worked well on 1-23 but the continually falling snow ended up covering the roads overnight. 400 lbs. of salt on 1-24 to get the roads melting and back to our bare wheel path goals worked well. The forecast changed in the middle of the event was not a major factor since it was a light snow and our plows were out again shortly after the snow ended.

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.	