

CROW WING COUNTY

January 18, 2020 Snow Event #3 - 2020 - 14

Reported Event Conditions

Date:	1/18/2020
Event No:	#3 2020 14
Begin Time:	1-17-20 2PM
End Time:	1-18-20 7AM
Weather:	Snow
Precipitation:	8"
Temperature:	19-1
Wind:	20-35 MPH

Event Costs

Salt	\$4,550
Sand	\$340
Brine	\$607
Equipment/Fuel	\$20,750
Personnel Reg.	\$3,392
Personnel OT	\$8,634
Total	\$38,273
Cost Mile	\$68
Season Total:	\$710,140

Priority By Route

Priority 1

% Target 1A Met: 100%
% Target 1B Met: 36%

Priority 2

% Target 2A Met: 100%
% Target 2B Met: 9%

Priority 3

% Target 3A Met: 100%

Legend

MnDOT Highway

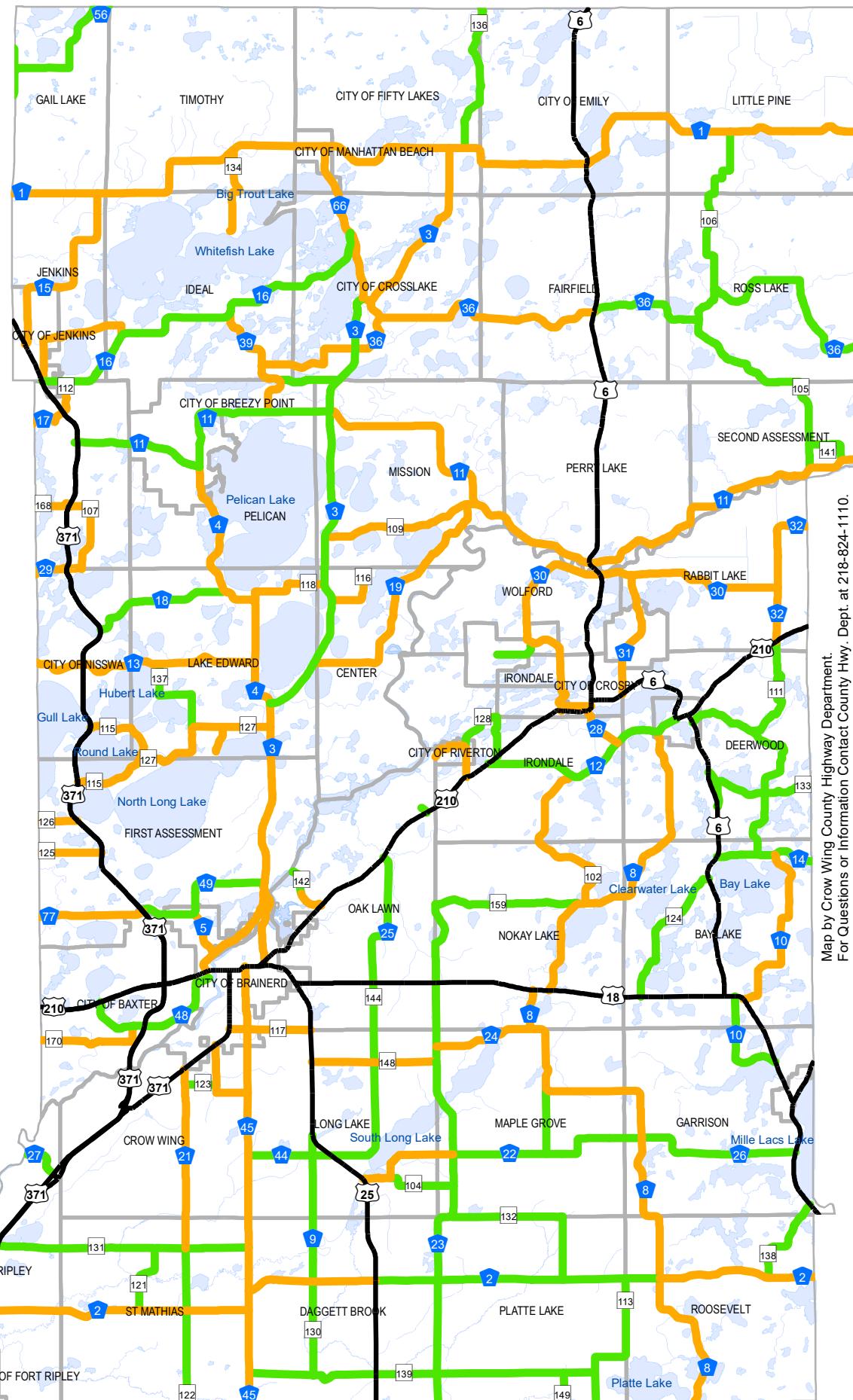
Route Priority

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

Route Target

- Target Achieved
 - Target Partly Achieved
 - Target Not Achieved

Report Date: 1/21/2020



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.

2019/2020 Summary For Snow Event #3 - 2020 - 14

Date 1-18-20

Salt Tons	Salt \$	Sand Tons	Sand \$	Brine gal	Brine \$	Mat. Total	Equip \$	Reg. Personnel	OT \$
50	\$4,550	10	\$340	919	\$607	\$5,497	\$20,750	\$3,392.00	\$8,634

Total \$38,273

14 Plow hrs.

\$2,734 per/hr.

285 Man hrs.

\$68 per/CL/mile

\$1.44 per/household for entire County

Forecast

6"-8" of snow forecasted to fall starting at 12 p.m. 1-17-20 and ending at 7 a.m. 1-18-20. 35-40 mph winds forecasted.

Pre Plan

Start plowing at 3 a.m. 1-18 and apply 500 lbs of salt initially to intersections and then switch to sand at intersections due to falling temps and because of the 35-40 mph winds forecasted. Plows will open all roads initially and then turnaround and rescrape and widen the road.

Actual Event

Event start: 1/17/20 2PM

Event ended 1-18-20 7AM

Comments

Snow ended around 7 a.m. 1-18-20. Temps dropped steadily throughout the day.

Conditions

8" of snow. Temps dropped from 8 a.m. 1-18-20 all day into the night.

Road	Road Temp	Date	Time	Air Temp
Cr 3	20	1\18\20	5:00AM	13
Hwy 6	15	1\18\20	8:00 AM	17

Date	High	Low
1/16/1900	-1	-19
1/17/2020	19	-11
1/18/2020	21	-1
1/19/2020	10	-1
1/20/2020	18	-10

Source: weather.com. Monthly Weather. 56401

Summary

We struggled in most open areas with drifting and blowing snow. The blowing snow and cold temps didn't allow for salt application other than at intersections. Roads started to clean up well but the blowing snow and thin layer of ice after we plowed. Snow was catching and sticking to any area where salt was applied. Roads started to freeze dry but light flurries slowed full freeze drying.

Decisions Made

We decided to start plowing at 3 a.m. 1-18-20 to clean off the roads because of the depth of snow forecasted. We applied 500 lbs. of salt and it worked well at intersections but was slow to burn all the way across. We had trucks come in on 1-19 to push back drifts.

Lessons Learned

Salt helped loosen up compacted snow at intersections. Not treating the open areas worked well as the snow blew across and the roads cleaned up in those areas. Priority 1 roads cleaned up well where the snow wasn't blowing. Priority twos were slow to clean up.

Goals Met/Not Met

Plowing	Goals
Priority 1	Met
Priority 2	Met
Priority 3	Met

Bare wheel paths	Goals
Priority 1	Not Met
Priority 2	Not Met