

CROW WING COUNTY

January 15, 2020 Snow Event #2 - 2020 - 13



Reported Event Conditions

Date:	1/15/2020
Event No:	#2 2020 13
Begin Time:	1-14-20 10PM
End Time:	1-15-20 11AM
Weather:	Snow
Precipitation:	2"
Temperature:	27-9
Wind:	0-5 MPH

Event Costs

Salt	\$6,188
Sand	\$2,244
Brine	\$1,071
Equipment/Fuel	\$24,980
Personnel Reg.	\$8,487
Personnel OT	\$2,674
Total	\$45,644
Cost Mile	\$82
Season Total:	\$650,646

Priority By Route

Priority 1

% Target 1A Met:	100%
% Target 1B Met:	80%

Priority 2

% Target 2A Met:	100%
% Target 2B Met:	83%

Priority 3

% Target 3A Met:	100%
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Legend

MnDOT Highway

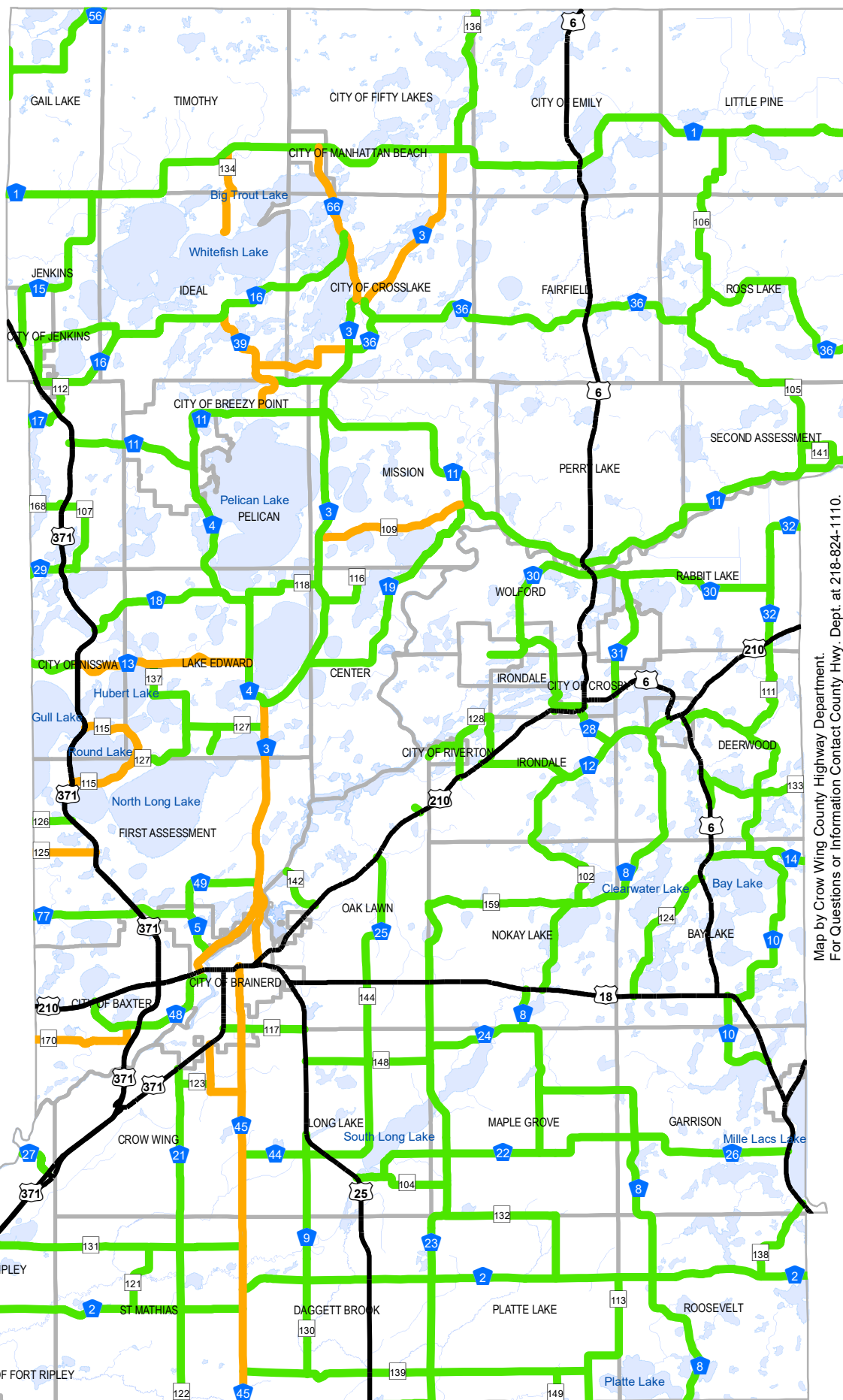
Route Priority

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

Route Target

- Target Achieved
- Target Partly Achieved
- Target Not Achieved

Report Date: 1/18/2020



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 #2 - 2020 - 13

Date 1-15-20

Salt Tons	Salt \$	Sand Tons	Sand \$	Brine gal	Brine \$	Mat. Total	Equip \$	Reg. Personnel	OT \$
68	\$6,188	66	\$2,244	1622	\$1,071	\$9,503	\$24,980	\$8,487.00	\$2,674

Total \$45,644

17 Plow hrs.
330 Man hrs.

\$2,685 per/hr.
\$82 per/CL/mile
\$1.72 per/household for entire County

Forecast

2" of forecasted to fall starting at 10 p.m. 1-14-20 and ending at 10 a.m. 1-15-20.

Pre Plan

Start plowing at 5 a.m. 1-15 and apply 500 lbs 50/50 mix. Start plowing at 5 a.m. 1-15-20.

Actual Event

Event start: 1/14/20 10PM

Event ended 1-15-20 11AM

Comments

Snow ended around 11 a.m. 1-15-20. Temps dropped steadily throughout the day.

Conditions

2" of snow. Temps dropped from 11 a.m. 1-15-20 all day into the night.

Road	Road Temp	Date	Time	Air Temp
142	3	1\15\20	8:00AM	8
Cr 48	6	1\15\20	12:00 PM	9

Date	High	Low
1/13/1900	25	15
1/14/2020	27	4
1/15/2020	11	-9
1/16/2020	-1	-19
1/17/2020	19	-11
1/18/2020	22	-1

Source: weather.com. Monthly Weather. 56401

Summary

Roads cleaned up pretty well for how cold it was. Slow moving traffic areas including intersections is where we saw compaction. Roads not passing were to the cold temperatures and the salt not working due to the temps.

Decisions Made

We decided to start plowing at 5 a.m. to get on the roads towards the end of the event. 500 lbs. of 50/50 salt/sand mix worked well in most areas.

Lessons Learned

Salt and sand mix worked marginally. The pavement temps did not allow the salt to penetrate much. Most roads opened up and had bare wheel paths from freeze drying. Most of the roads that didn't pass were do to slow moving traffic packing the snow down and at intersections and in 30 mph areas.

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	Not Met	18 Hr.
Priority 2	Not Met	48 hr.