

CROW WING COUNTY

December 21, 2020 Snow Event #15 - 2020 - 9



Reported Event Conditions

Date: 12/21/2020
Event No: #15-2020-9
Begin Time: 12/20/20 8PM
End Time: 12/21/20 12AM
Weather: Snow
Precipitation: 3"
Temperature: 34\17
Wind: 5-10 MPH

Event Costs

Salt	\$9,282
Sand	\$0
Brine	\$789
Equipment/Fuel	\$9,455
Personnel Reg.	\$3,188
Personnel OT	\$1,331
Total	\$24,045
Cost Mile	\$43
Season Total:	\$250,692

Priority By Route

Priority 1

% Target 1A Met: 90%
% Target 1B Met: 100%

Priority 2

% Target 2A Met: 75%
% Target 2B Met: 100%

Priority 3

% Target 3A Met: 100%

— MnDOT Highway

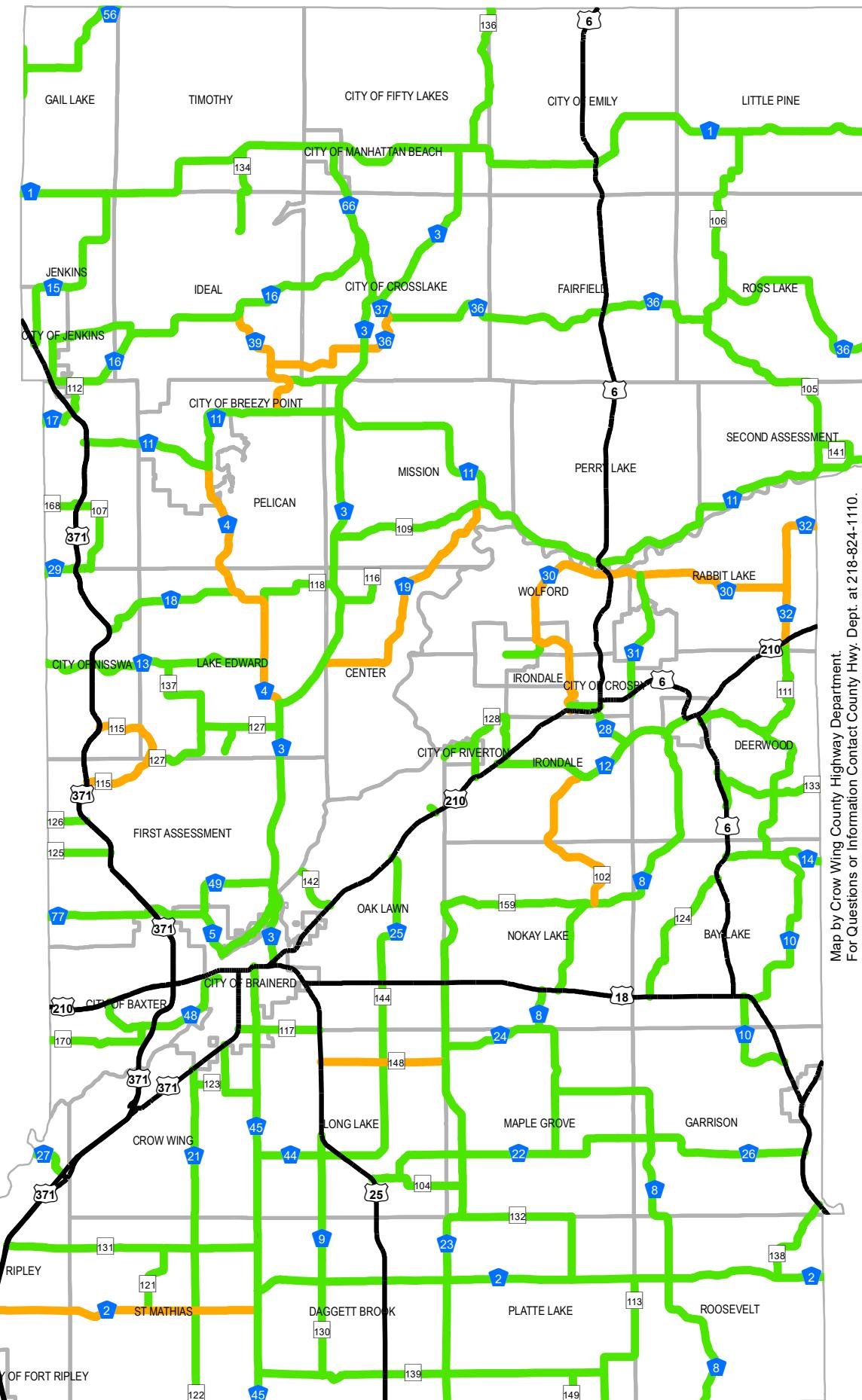
Route Priority

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

Route Target

- Target Achieved
- Target Partly Achieved
- Target Not Achieved

Report Date: 12/23/2020



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.

2020/2021 Summary For Snow Event #15 - 2020 - 9

Date 12-21-20

Salt Tons	Salt \$	Sand Tons	Sand \$	Brine gal	Brine \$	Mat. Total	Equip \$	Reg. Personnel	OT \$
102	\$9,282	0	\$0	1196	\$789	\$10,071	\$9,455	\$3,188.00	\$1,331

Total \$24,045

7 Plow hrs.

\$3,435 per/hr.

126.50 Man hrs.

\$43 per/CL/mile

\$0.91 per/household for entire County

Forecast

3" of snow expected to fall between 7:00 P.M. 12-20-20 and 3:00 A.M. 12-21-20. Temperatures dropping with winds increasing to 20 mph.

Pre Plan

Begin plowing at 3:00 A.M. 12-21-20. Apply 300 lbs. of salt on centerlines.

Actual Event

Event start: 12-20-20 8:00PM

Event ended 12-21-20 12:00AM

Comments

Snow started later and ended earlier than forecasted. Heavier snow and higher amounts fell than forecasted. Reduced salt application from 300 lbs. to 250 lbs. at 7:30 because the pavement temps were warmer than expected and 300 lbs. was working very well.

Conditions

Windy but the heavy wet snow was not blowing. Temps held warmer than forecasted; aiding in the roads cleaning up well. 2" south and 3" north.

Road	Road Temp	Date	Time	Air Temp
Cr 3	35	12/21/20	5:00AM	34
Cr 2	28	12/21/20	7:30AM	35

Date	High	Low
12/19/2020	21	14
12/20/2020	32	18
12/21/2020	34	17
12/22/2020	32	27

Source: weather.com. Monthly Weather. 56401

Summary

Roads cleaned up well with the warmer temps.

Decisions Made

Start plowing at 3:00 A.M. 12-21 and apply 300 lbs. of salt

Lessons Learned

With the warmer pavement temps we were able to turn down our salt application and still see favorable results. Snow ending at midnight instead of 4am, prohibited from reaching 100% our plowing goals.

Goals Met/Not Met

	Plowing	Goals
Priority 1	90%	6 hr.
Priority 2	75%	8 hr.
Priority 3	Met	10 hr.

	Bare wheel paths	Goals
Priority 1	Met	18 Hr.
Priority 2	Met	48 hr.