

CROW WING COUNTY

April 12-15, 2022 Snow Event #10 - 2022 - #17

Reported Event Conditions

Date: 4/15/2022
Event No: #10-2022-#17
Begin Time: 4-12 11AM
End Time: 4-15 9AM
Weather: Rain/Snow
Precipitation: .5" Rain/2" Snow
Temperature: 48/14
Wind: 15 -40 MPH

Event Costs

Salt	\$11,512
Sand	\$0
Brine	\$962
Equipment/Fuel	\$15,650
Personnel Reg.	\$2,173
Personnel OT	\$4,066
Total	\$34,363
Cost Mile	\$61
Season Total:	1.17 M

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%

— MnDOT Highway

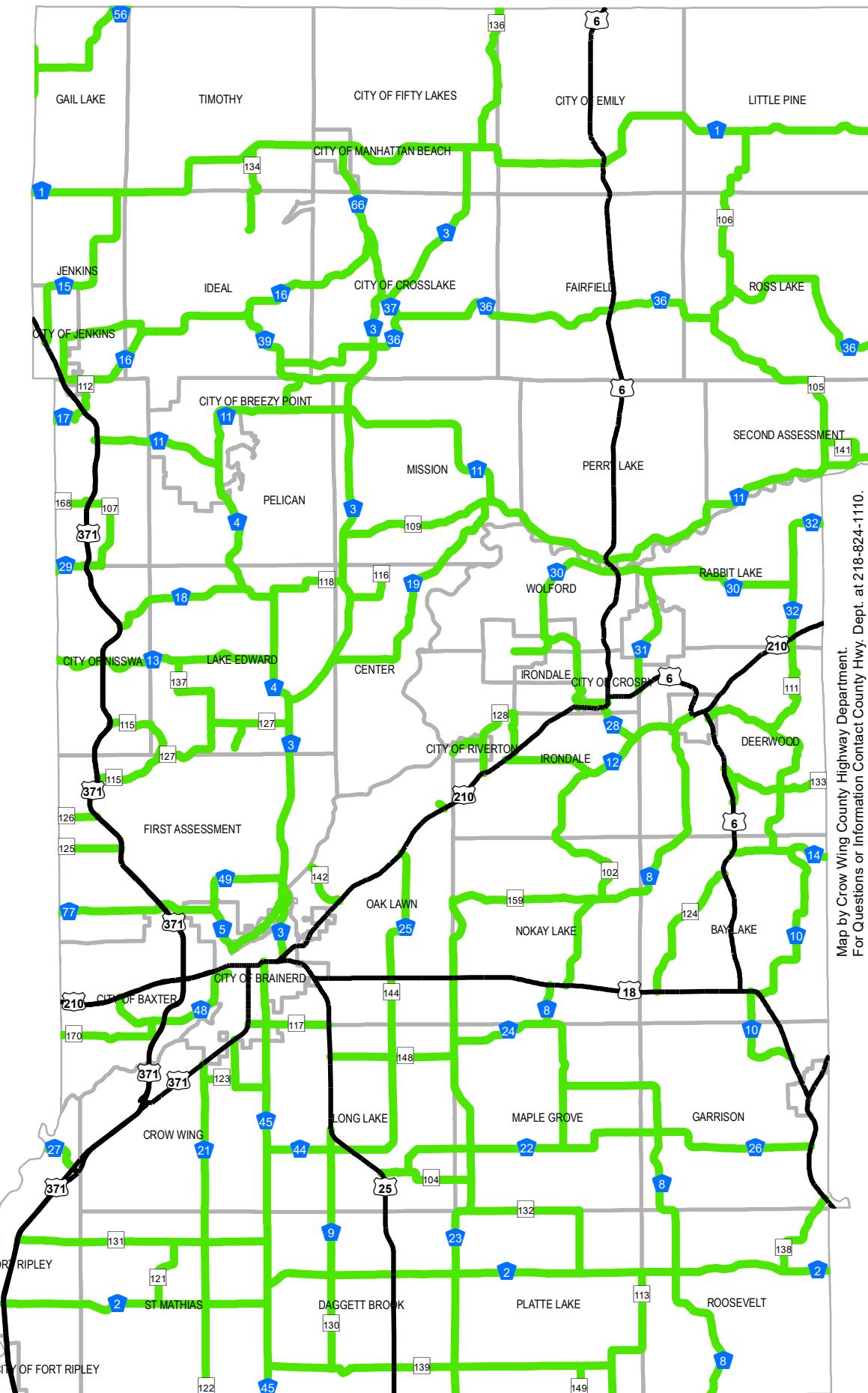
Route Priority

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

Route Target

- Target Achieved
- Target Partly Achieved
- Target Not Achieved

Report Date: 4/19/2022



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.

2021/2022 Summary For Snow Event #10 - 2022 - #17

Date 4/15/22

Salt Tons	Salt \$	Sand Tons	Sand \$	Brine gal	Brine \$	Mat. Total	Equip \$	Reg. Personnel	OT \$
126.5	\$11,512	0	\$0	1458	\$962	\$12,474	\$15,650	\$2,173.00	\$4,066

Total	\$34,363	9.5625 Plow hrs.	\$3,593 per/hr.
		153.00 Man hrs.	\$61 per/CL/mile
			\$1.30 per/household for entire County

Forecast

Rain starting 4/12 and continuing until 4/14 with 1.5" of snow possible before 4:00 PM on 4/14.

Pre Plan

Plow if snow begins to stick or roads freeze and become slippery. Didn't expect to dispatch after 4:00 PM 4/14.

Actual Event

Event start: 4/12 11:00AM

Event ended 4/15 9:00AM

Comments

Rain began to unexpectedly freeze on the roads around 9:00 PM on 4/14. Snowplows were dispatched to apply 300 lbs. of salt on centerlines to melt ice and promote traction for safer driving conditions. Heavy amounts of snow began to fall around 11:00 PM and continue into the morning. Some areas saw no snow while other areas of the county saw 3". Strong winds resulted in white out conditions for the drivers at times.

Conditions

Winds of 10-40 mph, rain and snow made this event challenging. Warmer temps during daylight hours helped the roads clean up well.

Road	Road Temp	Date	Time	Air Temp
Hwy 6	19	4\15\22	5:00AM	18
Hwy 25	20	4\15\22	5:00AM	19
Hwy 6	29	4\15\22	10:00AM	19
Hwy 25	39	4\15\22	10:00AM	19

Date	High	Low
4/11/2022	50	29
4/12/2022	48	37
4/13/2022	39	26
4/14/2022	33	14
4/15/2022	32	21
4/16/2022	39	22

Source: weather.com. Monthly Weather. 56401

Summary

4/14 snow took us by surprise since the snow was not forecasted to fall after 4:00 PM on 4/14. We already had plows out applying salt to the icy roads but their shifts were extended dramatically to contend with the snow. Snow was not showing up on radar, which made it difficult to know when it would end.

Decisions Made

Keep trucks plowing to reduce the chance of snow compacting to the roads.

Lessons Learned

Salt melted the ice, promoting traction and driver safety. Keeping the trucks out all night plowing was tough on the operators but resulted in favorable results for the roads.

Goals Met/Not Met

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

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