

CROW WING COUNTY

Snow Event 2-2023-7 January 11, 2023



Reported Event Conditions

Date:	1/11/2023
Event No:	2-2023-7
Begin Time:	1/11 1AM
End Time:	1/11 7PM
Weather:	Snow
Precipitation:	1.5" Snow
Temperature:	31/17
Wind:	5 MPH

Event Costs

Salt	\$36,149
Sand	\$0
Brine	\$1,855
Equipment/Fuel	\$24,887
Personnel Reg.	\$6,336
Personnel OT	\$1,996
Total	\$71,223
Cost Mile	\$127
Season Total:	\$769,050

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

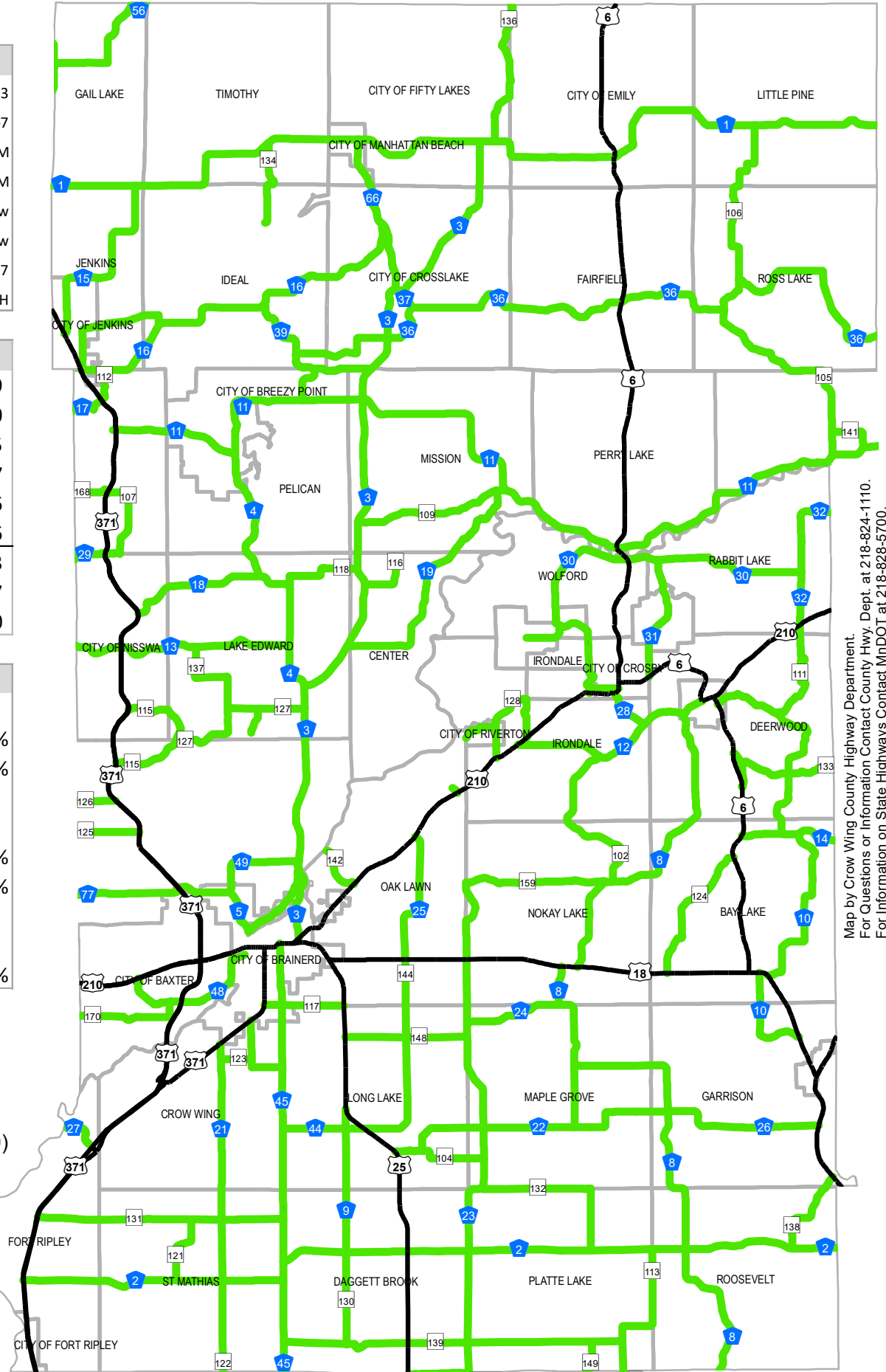
Route Priority

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

Route Target

- Target Achieved
- Target Partly Achieved
- Target Not Achieved

Report Date: 1/13/2023



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.

Date 1-11-23

Total	\$71,223	14.6 Plow hrs.	\$4,880 per/hr.
		234 Man hrs.	\$127 per/CL/mile
			\$2.69 per/household for entire County

Misty rain forecasted to start 1/10/23 10:00 p.m. 3/4" of snow expected 3:00 a.m. until 8 a.m. with 5 mph winds on 1/11/23. The forecast changed overnight to rain starting at 2:00 a.m. 1/11/23 and transitioning to snow around 5 a.m. 1/11/23. The snow was forecasted to continue until 4:00 p.m. to the north and 9:00 p.m. to the south 1/11/23, with winds increasing 10-25 mph 1/12/23.

Monitor early morning conditions and send plows out at 7:00 a.m. 1/11 or earlier if needed to patrol routes and apply 250 lbs. of salt material to slippery spots.

Event ended 1/11/23 7:00PM

At 6:00 am 1/11 we decided to have the trucks patrol and apply 300 lbs on centerlines, in hopes the salt would not allow ice to form as the humidity increased, the pavement temps dropping with daybreak and that the salt would keep working with the 3/4" of snow forecasted to fall. The snow fell and covered the roads. The salt was working but couldn't keep up during the day. The plows began scraping the roads around 10:00 a.m. 1/11/23. The plan was to continue working later in hopes we meet all of our goals for plowing and bare wheel paths. The crews came back in at 5:00 a.m. 1/12/23, to clean up shoulders and any areas that need attention. 1.5" north and about an 1" south of fluffy wet snow totals for the event.

Date	High	Low
1/10/2023	30	26
1/11/2023	31	17
1/12/2023	20	3

Roads cleaned up well with the warmer temps, salt applications and continued plowing during the event. All roads met bare wheel path goals in the evening of 1/11/23.

Lessons Learned

Plowing late during the event helped us reach goals. Salt application was right because the drive lanes melted off but the shoulders still had a light layer of snow and ice, meaning the salt wasn't applied to heavy to melt all the way to the shoulders.

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.