

CROW WING COUNTY

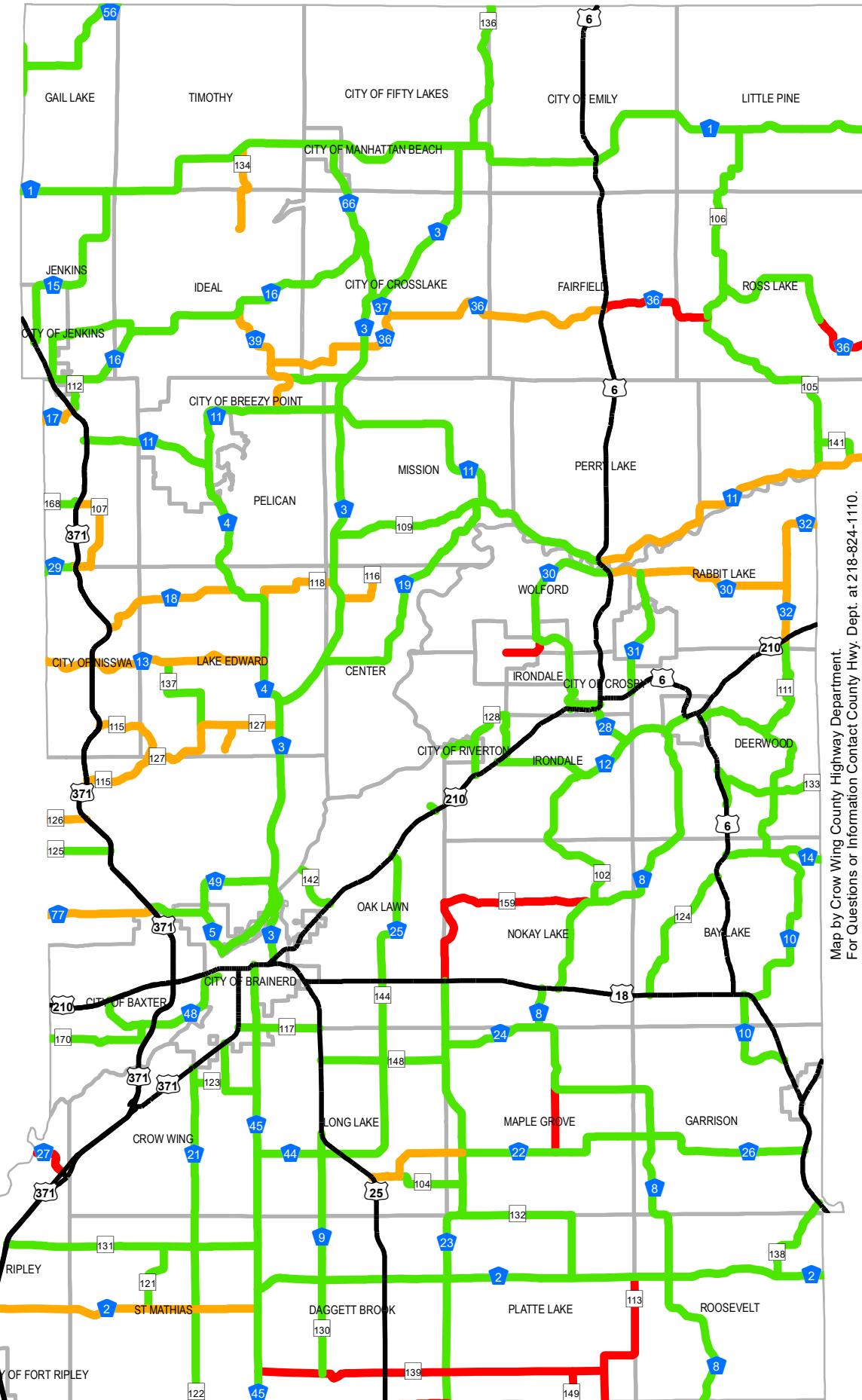
Snow Event 1-2023-6 January 3-5, 2023



Reported Event Conditions	
Date:	1/3-5/2023
Event No:	1-2023-6
Begin Time:	1/3 12PM
End Time:	1/5 12AM
Weather:	Snow
Precipitation:	10" Snow
Temperature:	27/17
Wind:	10-25 MPH

Event Costs	
Salt	\$49,590
Sand	\$272
Brine	\$2,229
Equipment/Fuel	\$53,706
Personnel Reg.	\$13,055
Personnel OT	\$4,241
Total	\$123,093
Cost Mile	\$220
Season Total:	\$697,827

Priority By Route	
Priority 1	
% Target 1A Met:	86%
% Target 1B Met:	100%
Priority 2	
% Target 2A Met:	66%
% Target 2B Met:	100%
Priority 3	
% Target 3A Met:	78%



2022/2023 Summary For Snow Event 1-2023-6

Date 1/3-5/2023

Salt Tons	Salt \$	Sand Tons	Sand \$	Brine gal	Brine \$	Mat. Total	Equip \$	Reg. Personnel	OT \$
342	\$49,590	8	\$272	3378	\$2,229	\$52,091	\$53,706	\$13,055.00	\$4,241

Total \$123,093

29.1 Plow hrs.

\$4,235 per/hr.

465.00 Man hrs.

\$220 per/CL/mile

\$4.64 per/household for entire County

Forecast

6"-8" of snow forecasted to start falling around noon on 1/3 and continue until 8:00 a.m. 1/5, with 10-25 mph winds. Temps 22-26 degrees before dropping into the single digits 12/6.

Pre Plan

If there is enough snow to plow by 3:00 p.m. 1/3/23, the plows will go out. If not, plows will begin plowing at 3:00 a.m. 1/4/23 and continue through the day until 6:00 p.m. Plows will apply 250 lbs. of salt on centerlines to keep the snow from compacting. The plows will resume plowing at 3:00 a.m. 1/5/23 and apply 350 lbs. of salt to centerlines for melting.

Actual Event

Event start: 1/3/2023 12:00PM

Event ended 1/5/2023 12:00AM

Details/Comments

Snow began to fall at noon 1/3/23, but didn't start sticking to the road until around 4:00 p.m. The residual salt from 1/1/23, was still working. Plowing began at 3:00 a.m. 1/4/23 and continued until 5:30 p.m. 250 lbs. of salt was applied to centerlines to keep the wet snow from compacting. Multiple rounds of plowing county roadways took place 1/4/23. The decision to apply salt was made after observing melting where MNDOT applied salt and compaction where they did not, on Hwy 25 at 2:00 a.m. 1/4/23. Trucks continued plowing on 1/5/23 at 3:00 a.m. until noon. Trucks ran routes and pushed back shoulders on various roads 1/6/23.

Conditions

Mid 20's with waves of steady snowfall over a 36 hour period. 4" of snow by 3:00 a.m. 1/4/23. Winds 10-20 mph. 10" of snow for the south end of the County and 8" for the north end.

Road	Road Temp	Date	Time	Air Temp
Hwy 6	24	1\3\23	12:00PM	18
Hwy 25	25	1\3\23	12:00PM	20
Hwy 6	23	1\4\23	3:00AM	24
Hwy 25	26	1\4\23	3:00AM	26
Hwy 6	20	1\5\23	3:00AM	19
Hwy 25	23	1\5\23	3:00AM	21

Date	High	Low
1/2/2023	22	15
1/3/2023	24	22
1/4/2023	27	17
1/5/2023	19	-5
1/6/2023	19	-8
1/7/2023	24	4

Source: weather.com. Monthly Weather. 56401

Summary

Snow fell fast and for a long duration. Trucks would plow the roads on 1/4/23 but the snow filled in behind them. Trucks plowed for 15 hours on 1/4/23 and then came back in early 1/5/23 to scrape and apply material. Roads cleaned up well with material and temps. The snow ended 8 hours earlier than forecasted. The trucks had plowed for 15 hours the day before and needed rest until 3 a.m. when we started after the storm. One snowplow was down for mechanical issues for 3 hours, putting the south central county roads behind targets.

Decisions Made

Apply salt to centerlines as snow continued to fall. Early start times allowed for cleanup for morning and evening commutes.

Lessons Learned

Early start time on 1/4/23 and 1/5/23 and salt application during the event aided in reaching our goals for bare wheel paths. Earlier ending event than forecasted didn't allow us to reach our plowing goals, even though we had been out plowing, covering the multiple times the day prior.

Goals Met/Not Met

	Plowing	Goals		Bare wheel paths	Goals
Priority 1	Not Met	6 hr.	Priority 1	Met	18 Hr.
Priority 2	Not Met	8 hr.	Priority 2	Met	48 hr.
Priority 3	Not Met	10 hr.			