

CROW WING COUNTY

December 12, 2019 Snow Event #22 - 2019 - 08

Reported Event Conditions	
Date:	12/12/2019
Event No:	#22 2019 08
Begin Time:	12/11/19 10PM
End Time:	12/12/19 10AM
Weather:	Snow
Precipitation:	3"
Temperature:	15\16
Wind:	0-5 MPH

Event Costs	
Salt	\$5,961
Sand	\$0
Brine	\$806
Equipment/Fuel	\$14,340
Personnel Reg.	\$3,922
Personnel OT	\$2,866
Total	\$27,894
Cost Mile	\$50
Season Total:	\$327,410

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%

Legend

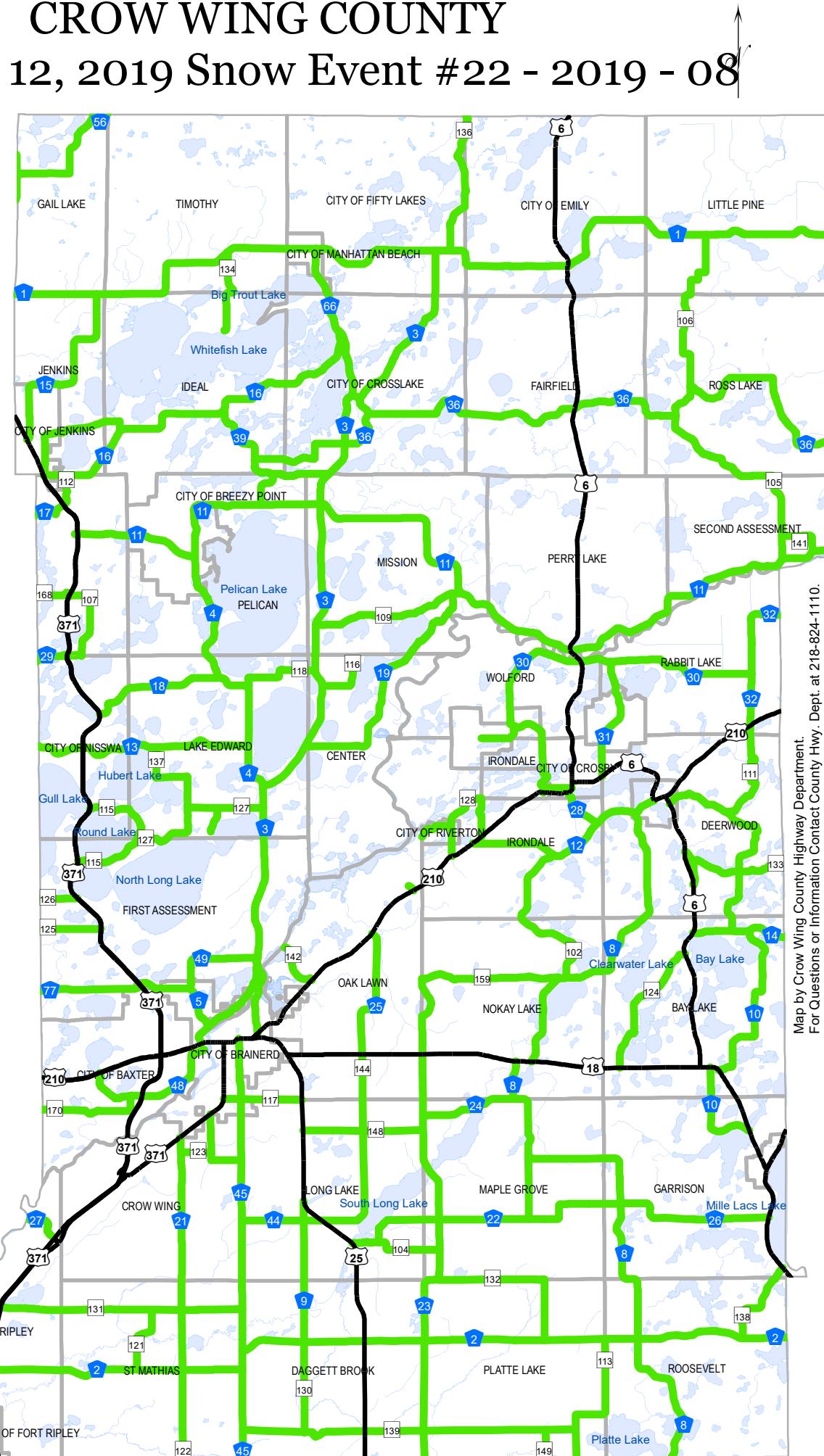
— MnDOT Highway

Route Priority

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

Route Target

- Target Achieved
- Target Partly Achieved
- Target Not Achieved



Report Date: 12/13/2019

2019/2020 Summary For Snow Event #22 - 2019 - 08

Date 12-12-19

Salt Tons	Salt \$	Sand Tons	Sand \$	Brine gal	Brine \$	Mat. Total	Equip \$	Reg. Personnel	OT \$
65.5	\$5,961	0	\$0	1221	\$806	\$6,766	\$14,340	\$3,922.00	\$2,866

Total \$27,894

11.5 Plow hrs.

\$2,426 per/hr.

182 Man hrs.

\$50 per/CL/mile

\$1.05 per/household for entire County

Forecast

Snow expected to start at 9 PM 12-11-19 and continue to fall until 8 AM 12-12-19. 3" of snow forecasted with single digit to low teen temperatures.

Pre Plan

Begin plowing at 4 AM 12-12-19 and continue into the evening to get as much snow off the roads as possible before it freezes down and we are not able to get it off. Apply sand at intersections for traction because the road temps will be low and salt will not be effective. Concentrate on drive lanes to keep traffic moving as the snow continues to fall. After getting through the routes, turn around and replow because the snow should end.

Actual Event

Event start: 12/11/2019 9PM

Event ended 12-12-19 10AM

Comments

About 2.5" of snow at 4 a.m. 12/12/19 when the plows started. An additional inch fell until 10 a.m. 12/12. Colder temps helped the snow stay dry and allowed less compaction and easier clean up. Trucks applied treated salt to intersections where compaction was observed. Truck plowed their routes multiple times to remove as much snow as possible from drivelines.

Conditions

Low road temps initially, no wind and forecasted upper teens road temps later in the afternoon so we decided to try magnesium treated chloride at intersections to prevent compaction and build up. High speed drive lanes seemed to clean up after plowing and traffic started to pick up.

Road	Road Temp	Date	Time	Air Temp
Hwy 6	-8	12/11/19	8:00 AM	-16
Hwy 25	-7	12/11/19	8:00 AM	-13
Hwy 6	9	12/12/19	8:00 AM	4
Hwy 25	11	12/12/19	8:00 AM	7

Date	High	Low
12/10/2019	-1	-14
12/11/2019	4	-16
12/12/2019	15	2
12/13/2019	18	7

Source: weather.com. Monthly Weather. 56401

Summary

Roads cleaned up well with minimal salt application.

Decisions Made

The plan was to use sand but we decided to try magnesium treated chloride at intersections at 3:30 a.m. 12/11 due to conditions and what we were seeing.

Lessons Learned

Colder temps and the lack of moisture in the snow prevented it from sticking and compacting to the roads.

Goals Met/Not Met

Plowing	Goals
Priority 1 Met	6 hr.

Bare wheel paths	Goals
Priority 1 Met	18 Hr.

Priority 2 Met 8 hr.
Priority 3 Met 10 hr.

Priority 2 Met 48 hr.