

CROW WING COUNTY

November 27, 2019 Snow Event #19 - 2019 - 05

Reported Event Conditions	
Date:	11/27/2019
Event No:	#19 2019 05
Begin Time:	11/26/19 9PM
End Time:	11/27/19 9AM
Weather:	Snow
Precipitation:	5"
Temperature:	34\23
Wind:	10-25 MPH

Event Costs	
Salt	\$18,023
Sand	\$0
Brine	\$1,643
Equipment/Fuel	\$16,915
Personnel Reg.	\$4,914
Personnel OT	\$2,301
Total	\$43,796
Cost Mile	\$78
Season Total:	\$108,483

Priority By Route	
Priority 1	
% Target 1A Met:	100%
% Target 1B Met:	100%
Priority 2	
% Target 2A Met:	100%
% Target 2B Met:	91%
Priority 3	
% Target 3A Met:	100%

Legend

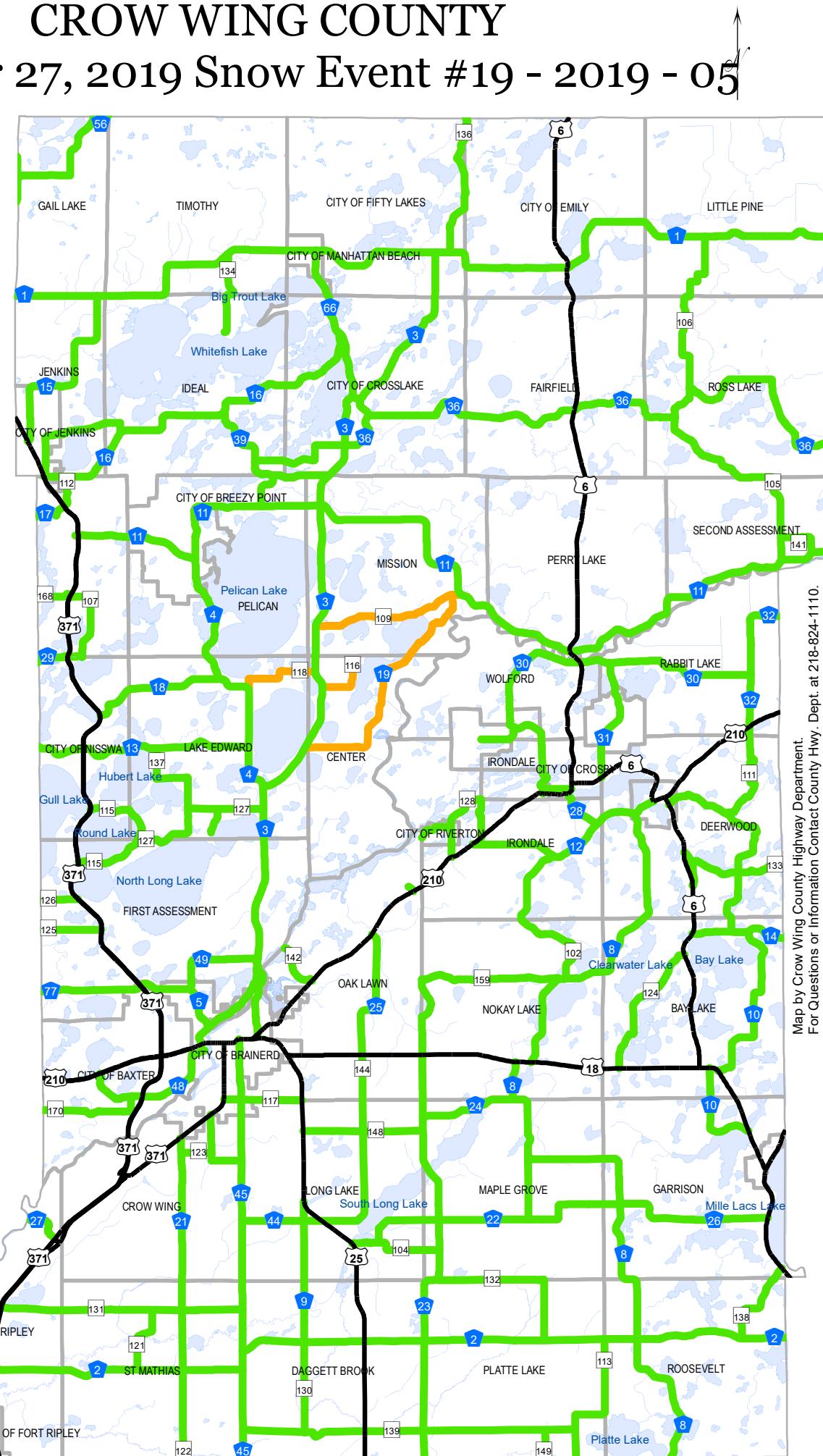
— MnDOT Highway

Route Priority

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

Route Target

- Target Achieved
- Target Partly Achieved
- Target Not Achieved



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.

2019/2020 Summary For Snow Event #19 - 2019 05

Date 11-27-19

Salt Tons	Salt \$	Sand Tons	Sand \$	Brine gal	Brine \$	Mat. Total	Equip \$	Reg. Personnel	OT \$
222.5	\$18,023	0	\$0	2490	\$1,643	\$19,666	\$16,915	\$4,914.00	\$2,301

Total \$43,796

14 Plow hrs.

\$3,128 per/hr.

217 Man hrs.

\$78 per/CL/mile

\$1.65 per/household for entire County

Forecast

Snow forecasted to begin at 9 p.m. 11-26-19 and continue until 9 a.m. on 11-27-19.

Pre Plan

Start plowing roads at 4 a.m.. Concentrate on drive lanes and apply 200 lbs. of salt per lane mile. Once the snow stops, turn around and repluck drive lanes apply 200 lbs. of salt and scrape shoulders.

Actual Event

Event start: 9:00 P.M. 11/26/19

Event ended 9:00 A.M. 11/27/19

Comments

Trucks began plowing at 4:00 a.m. Initially applied 200 lbs. to soften ice layer and keep the continued falling snow soft so it could be scraped off when it was done snowing. Roads had approximately 5" of snow and a thin layer of ice underneath. Snow continued to fall and traffic compacted the snow to the roads, making it a bit difficult to scrape off. Applied 350 lbs. per lane mile on the second time scraping.

Conditions

Snow started and ended as forecasted. Thick compaction from the heavy wet snow and traffic compacting it along with drifting snow in open areas created challenges for the plow trucks to achieve bare wheel paths.

Road	Road Temp	Date	Time	Air Temp
HWY 25	37	11/26/19	9:00 AM	33
Cr 12	27	11/27/19	4:00 AM	27
Cr 3	28	11/27/19	2:00 PM	26

Date	High	Low
11/25/2019	40	33
11/26/2019	34	29
11/27/2019	29	23
11/28/2019	25	20
11/29/2019	31	24

Source: weather.com. Monthly Weather. 56401

Summary

Spotty ice and snow compaction areas throughout the county due to blowing snow and traffic. Some priority two roads were plowed later because snowplows went back to focus on priority 1 roads after the snow ended, due to traffic and snow compaction issues.

Decisions Made

Start plowing at 4 a.m. and apply 200 lbs. on the first pass and then 350 lbs. of salt on the next pass.

Lessons Learned

Starting at 4 a.m. and applying 200 lbs. and then 350 lbs. of salt the next time around worked well. Some areas of excess compaction in Mission Township. Multiple passes on roads was needed to break the bond of compacted snow to the road. A snowplow should have been sent out on 11-28-19 to resurface Cr 109, 19, 118 and Cr 116 to remove excess slush.

Goals Met/Not Met

	Plowing	Goals
Priority 1	Met	6 hr.
Priority 2	Met	12 hr.
Priority 3	Met	18 hr.

	Bare wheel paths	Goals
Priority 1	Met	18 Hr.
Priority 2	Not met	48 hr.