

CROW WING COUNTY

January 14, 2018 Snow Event #12 2018-2



Reported Event Conditions	
Date:	1/14/2018
Event No:	#12 2018-2
Begin Time:	1-14-18 12PM
End Time:	1-14-18 7PM
Weather:	Snow
Precipitation:	3" Snow
Temperature:	8 - -21
Wind:	5-30 MPH

Event Costs	
Salt	\$11,941
Sand	\$5,610
Brine	\$2,587
Equipment/Fuel	\$26,000
Personnel Reg.	\$8,405
Personnel OT	\$4,252
Total	\$58,795
Cost Mile	\$86
Season Total:	\$495,374

Priority By Route	
Priority 1	
% Target 1A Met:	100%
% Target 1B Met:	0%
Priority 2	
% Target 2A Met:	100%
% Target 2B Met:	0%
Priority 3	
% Target 3A Met:	100%

Legend

MnDOT Highway

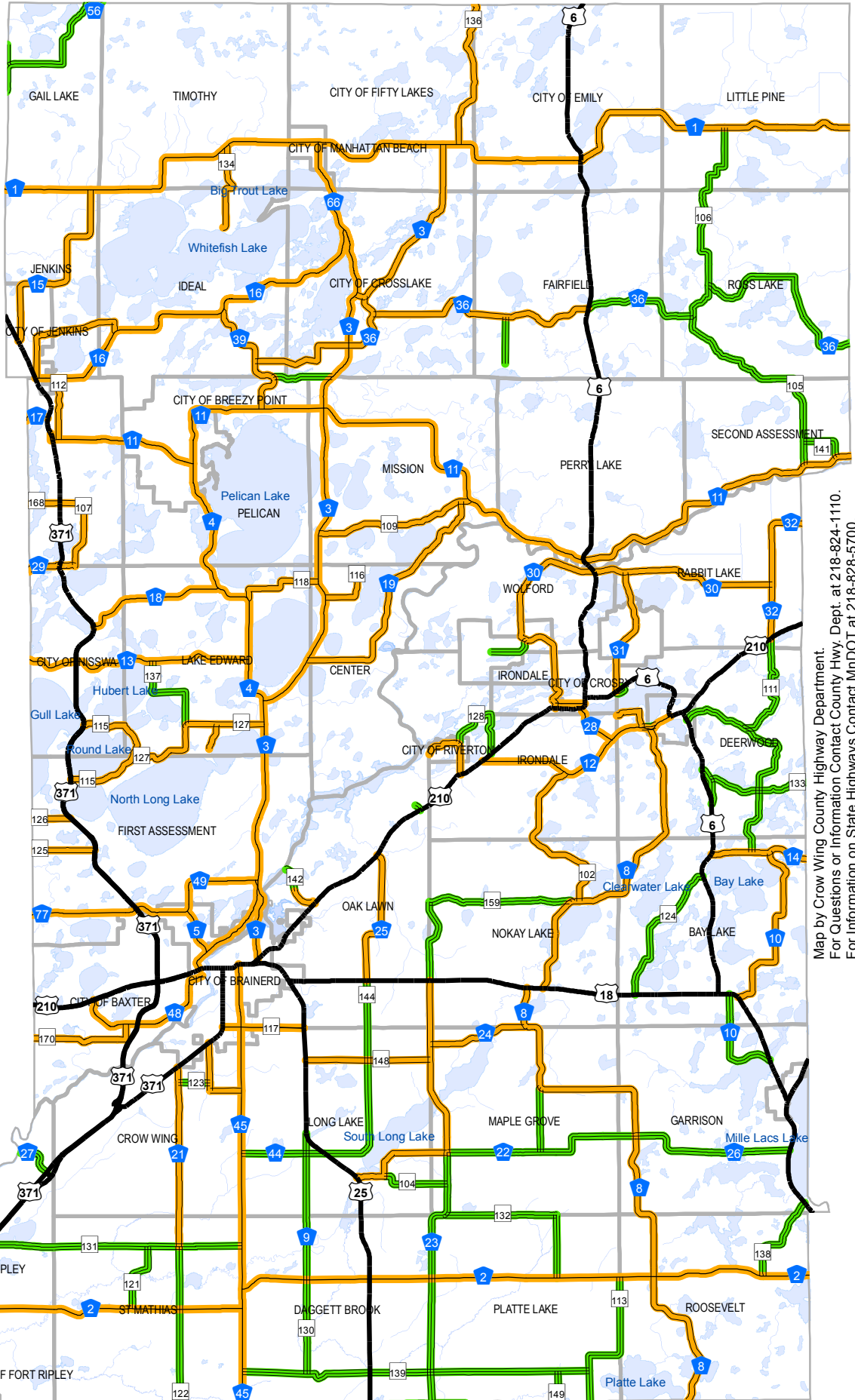
Route Priority

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

Route Target

- Target Achieved
- Target Partly Achieved
- Target Not Achieved

Report Date: 1/18/2018



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.

2017/2018 Summary For Snow Event #12 2018-2

Date 1-14-18

Salt Tons	Salt \$	Sand Tons	Sand \$	Brine gal	Brine \$	Mat. Total	Equip \$	Reg. Personnel	OT \$
195.75	\$11,941	170	\$5,610	3920	\$2,587	\$20,138	\$26,000	\$8,405.00	\$4,252

Total \$58,795

Total \$58,795 16 hrs = \$3,675 per/hr 366 man hours
 \$105 per/CL/Mile

Forecast

The forecast called for 2" of snow starting at 12:00 pm and end at 7:00 pm on 1-14-18.
 Winds were forecasted to blow 15-30 mph,

Pre Plan

Start scraping roads at 5:00pm and apply 800 lbs of sand to intersections.

Comments

Snow flurries continued until after 2 am 1-15-18. It was not enough to plow but with the wind created issues. The temps and humidity created compaction and ice on a lot of roads. Roads continued to make black ice on 1-15 & 1-16 due to the humidity and below zero temps. Roads started to clean up with scraping and salt application on 1-17-18.

Conditions

Snow continued to fall until 7pm. Flurries until after 2 am on 1-15-18.
 Strong winds causing swirling and blowing snow.

Road	RDTemp	Date/Time		Air Temp
Hwy 6	8	1\14\18	9am	8
Hwy 6	5	1\14\18	10pm	6
Hwy 6	-2	1\15\18	8am	0
Hwy 6	-5	1\16\18	8am	-9
Hwy 6	-1	1\16\18	3pm	8
Hwy 6	4	1\17\18	8am	6

Date	High	Low
1/13/2018	1	-24
1/14/2018	8	-21
1/15/2018	3	-3
1/16/2018	9	-9
1/17/2018	30	6

Summery

The roads cleaned up well initially but made black ice on the 15th & 16th causing us not to achieve our goals.

The winds also blew causing issues and with the cold temps salt was not effective. Sand did not hold to the road and was blown off by cars, leaving ice at most intersections.

Decisions Made

Scrape all roads, apply sand to intersections.

Lessons Learned

Nothing we did helped prevent black ice. Scrapping the roads again caused more black ice. Sand did not stick to the roads, it was blown off into the ditch.
 Salt worked well on 1-17-18.

Goals Met/Not Met

Plowing	Bare wheel paths
Priority 1 Met	Priority 1 Not met

Priority 2 Met
Priority 3 Met

Priority 2 Not Met