

CROW WING COUNTY

January 10, 2018 Snow Event #11 2018-1



Reported Event Conditions	
Date:	1/10/2018
Event No:	#11 2018-1
Begin Time:	1-10-18 6PM
End Time:	1-11-18 12:30PM
Weather:	Snow
Precipitation:	2" Snow
Temperature:	37 - -19
Wind:	15-35 MPH

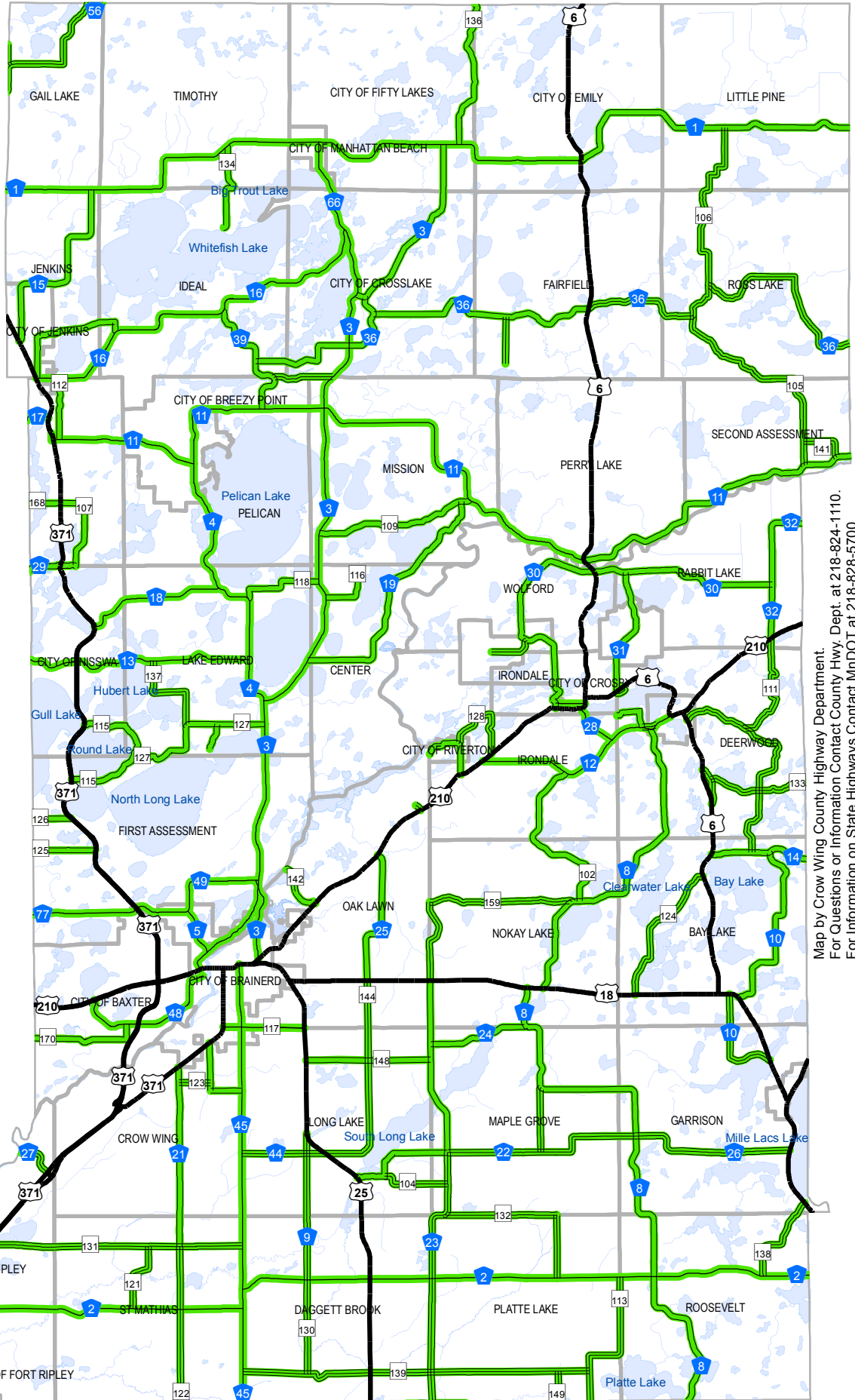
Event Costs	
Salt	\$12,292
Sand	\$2,287
Brine	\$2,169
Equipment/Fuel	\$21,358
Personnel Reg.	\$8,388
Personnel OT	\$1,456
Total	\$47,949
Cost Mile	\$86
Season Total:	\$436,579

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<5000)
 - 3 (ADT<500)

- Route Target**
- Target Achieved
 - Target Partly Achieved
 - Target Not Achieved

Report Date: 1/14/2018



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 #11 2018-1

Date 1-10-18

Salt Tons	Salt \$	Sand Tons	Sand \$	Brine gal	Brine \$	Mat. Total	Equip \$	Reg. Personnel	OT \$
201.5	\$12,292	67.25	\$2,287	3286.5	\$2,169	\$16,747	\$21,358	\$8,388.00	\$1,456

Winter storm Hunter Total \$47,949

Total \$47,949 12 hrs = \$3,996 per/hr 296.5 man hours
\$86 per/CL/Mile

Forecast

2"- 4" of snow expected with temperatures dropping from 36 to negative single digits and strong winds.
 The event will begin around 6 p.m. 1-10-18 and end around noon on 1-11-18.
 The event will start our as rain and turn over to snow as the temps drop.
 Temps expected to drop 55 degrees in 48 hours after the start of the event

Pre Plan

Begin plowing at 4 a.m. 1-11-18. Trucks will apply 600 lbs of salt on c/l to keep the snow soft as it falls
 Snowplows will concentrate on drive lanes to attempt to keep the compaction to a minimum.
 Around noon the trucks will switch to treated salt or a 50/50 blend of treated salt and sand, depending on road temperatures and wind.

Comments

Road temps held throughout the night in the twenties.
 There was a thin layer of ice from the rain that fell but in open areas the wind dried the road.
 Snow continued throughout the morning.
 More snow Merrifield and north.
 Road temps stayed warmer than expected, longer than expected allowing the salt to work.

Conditions

Very windy, which assisted in drying the road and blowing the snow off.
 Temps dropping rapidly from 33 degrees at the start of the event to single digits at the end.

Road	RDTemp	Date/Time		Air Temp
210/12	24	1\10\18	6 a.m.	33
Cr 2/8	21	1\11\18	5 a.m.	9
Cr 109	17	1\11\18	5 p.m.	1
Hwy 6	-7	1\12\18	5 a.m.	-21

Date	High	Low
1/9/2018	38	19
1/10/2018	37	27
1/11/2018	9	-19
1/12/2018	1	-22
1/13/2018	1	-24

Summery

There was a short break between the rain and snow, which allowed the rain to freeze and helped keep some of snow from sticking.
 Strong winds helped dry and blow snow off the roads in open areas.
 The roads cleaned up surprising well with the rain and cold temps.

Decisions Made

Send trucks out at 5 a.m. to scrape roads and apply 600 lbs of reg. salt where the wind was not blowing.
 Did not apply material to areas where blowing was present.
 We made the decision to scrape all drive lanes initially and leave the shoulders to try and get as much off the dri as possible before traffic compacts it and apply 600 lbs of regular salt initially.
 After it was done snowing, the plows loaded treated salt and applied on C/L at 600 lbs.

Lessons Learned

It worked well to apply regular salt and then switch to treated salt after it stopped snowing.

Goals Met/Not Met

Plowing

Priority 1 Met

Priority 2 Met

Priority 3 Met

Bare wheel paths

Priority 1 Met

Priority 2 Met

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