

CROW WING COUNTY

March 30, 2018 Snow Event #19 2018-9



Reported Event Conditions	
Date:	3/30/2018
Event No:	#19 2018-9
Begin Time:	3/30/18 4AM
End Time:	3/31/18 9AM
Weather:	Snow
Precipitation:	10" Snow
Temperature:	28-5
Wind:	20-35 MPH

Event Costs	
Salt	\$15,616
Sand	\$0
Brine	\$3,501
Equipment/Fuel	\$22,613
Personnel Reg.	\$5,918
Personnel OT	\$5,653
Total	\$52,111
Cost Mile	\$93
Season Total:	\$976,625

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

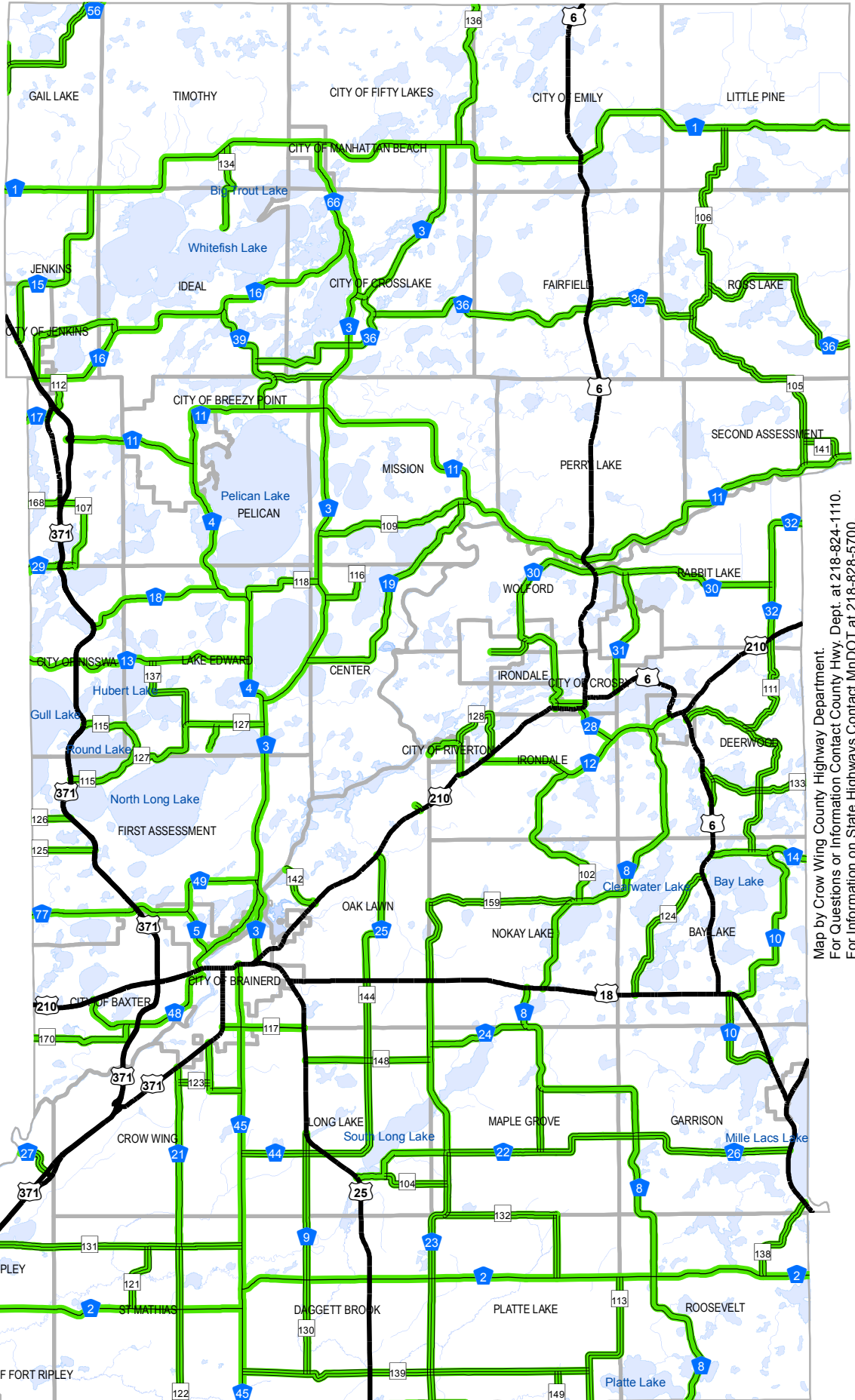
Route Priority

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

Route Target

- Target Achieved
- Target Partly Achieved
- Target Not Achieved

Report Date: 4/3/2018



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 #19 2018-9

Date 3/30/18 - 3/31/18

Salt Tons	Salt \$	Sand Tons	Sand \$	Brine gal	Brine \$	Mat. Total	Equip \$	Reg. Personnel	OT \$
256	\$15,616	0	\$0	3501	\$2,311	\$17,927	\$22,613	\$5,918.00	\$5,653

Total \$52,111

Total \$52,111 14.75 hrs = \$3,533 per/hr 313.5 man hours
\$93 per/CL/Mile

Forecast

Light snow, up to an inch forecasted to begin at 2 a.m. and ending at 9 a.m. 3-30-18.
 6"-12" snow forecasted to begin falling at 10 p.m. 3-30-18 and end at 7 a.m. 3-31-18.
 Strong NE winds, 25-35 mph forecasted throughout the day on 3-31-18.

Pre Plan

Report at 5 a.m. to begin plowing and treating roads on 3-30-18. Apply 300 lbs of salt on centerline.
 Report at 5:a.m. to begin plowing and treating roads on 3-31-18. Apply 400-500 lbs of salt on centerline.

Comments

Roads cleaned up well on 3-30. All roads were black by noon on 3-30.
 Lots of drifting and the snow started to compact later in the morning on 3-31.
 Snow began at 4 a.m. and ended at 10 a.m. on 3-30-18.
 Snow began at 11 p.m. 3/30 and ended at 9 a.m. on 3-31-18.
 Crews started plowing between 5-6 a.m. on 3-30 as the snow continued to fall.
 Crews started plowing at 5 a.m. on 3-31 as the snow continued to fall.

Conditions

Warmer conditions on 3-30 and roads melted to bare pavement quickly.
 On 3-31 the snow fell at a very fast rate early in the morning.
 Strong winds caused substantial blowing and drifting.
 Struggled with compaction from traffic later in the morning.

Road	RDTemp	Date/Time		Air Temp
Hwy 6	29	3\30\18	4:00 a.m.	28
Hwy 6	29	3\30\18	10:00 a.m.	29
Hwy 6	31	3\31\18	12:00 a.m.	28
Hwy 6	24	3\31\18	8:00 a.m.	27
Hwy 25	29	3\30\18	4:00 a.m.	29
Hwy 25	29	3\30\18	10:00 a.m.	30
Hwy 25	31	3\31\18	12:00 a.m.	27
Hwy 25	24	3\31\18	8:00 a.m.	25

Date	High	Low
3/28/2018	44	22
3/29/2018	36	17
3/30/2018	28	20
3/31/2018	27	5
4/1/2018	28	3

Summery

Roads cleaned up well with the sun's heat.
 Some compation issues late in the morning on 3-31 but it cleaned up by early afternoon after a second pass.
 Some drifting issues late 3-31-18. One truck spent 5 hours pushing back these drifts late on 3-31-18.
 All roads were bare by 2 p.m. on 3-30 and by 3 p.m. on 3-31.

Decisions Made

Start at 5 a.m. each day before the snow was over.
 Apply 300 lbs on 3/30 and 400-500 lbs on 3/31.

Lessons Learned

Salt worked well and kept up with falling and blowing snow on 3/31.
The road temps are favorable late mornings and in the afternoons.

Goals Met/Not Met

Plowing

Priority 1 Met
Priority 2 Met
Priority 3 Met

Bare wheel paths

Priority 1 Met
Priority 2 Met