

CROW WING COUNTY

December 11, 2017 Snow Event #6 2017-15



Reported Event Conditions	
Date:	12/11/2017
Event No:	#6 2017-15
Begin Time:	12-10 11:00PM
End Time:	12-11 8:00AM
Weather:	Snow
Precipitation:	2" Snow
Temperature:	33/-1
Wind:	0-25 MPH

Event Costs	
Salt	\$12,210
Sand	\$9
Brine	\$1,273
Equipment/Fuel	\$12,455
Personnel Reg.	\$5,388
Personnel OT	\$812
Total	\$35,147
Cost Mile	\$63
Season Total:	\$207,565

Priority By Route	
Priority 1	
% Target 1A Met:	100%
% Target 1B Met:	93%
Priority 2	
% Target 2A Met:	100%
% Target 2B Met:	100%
Priority 3	
% Target 3A Met:	100%

Legend

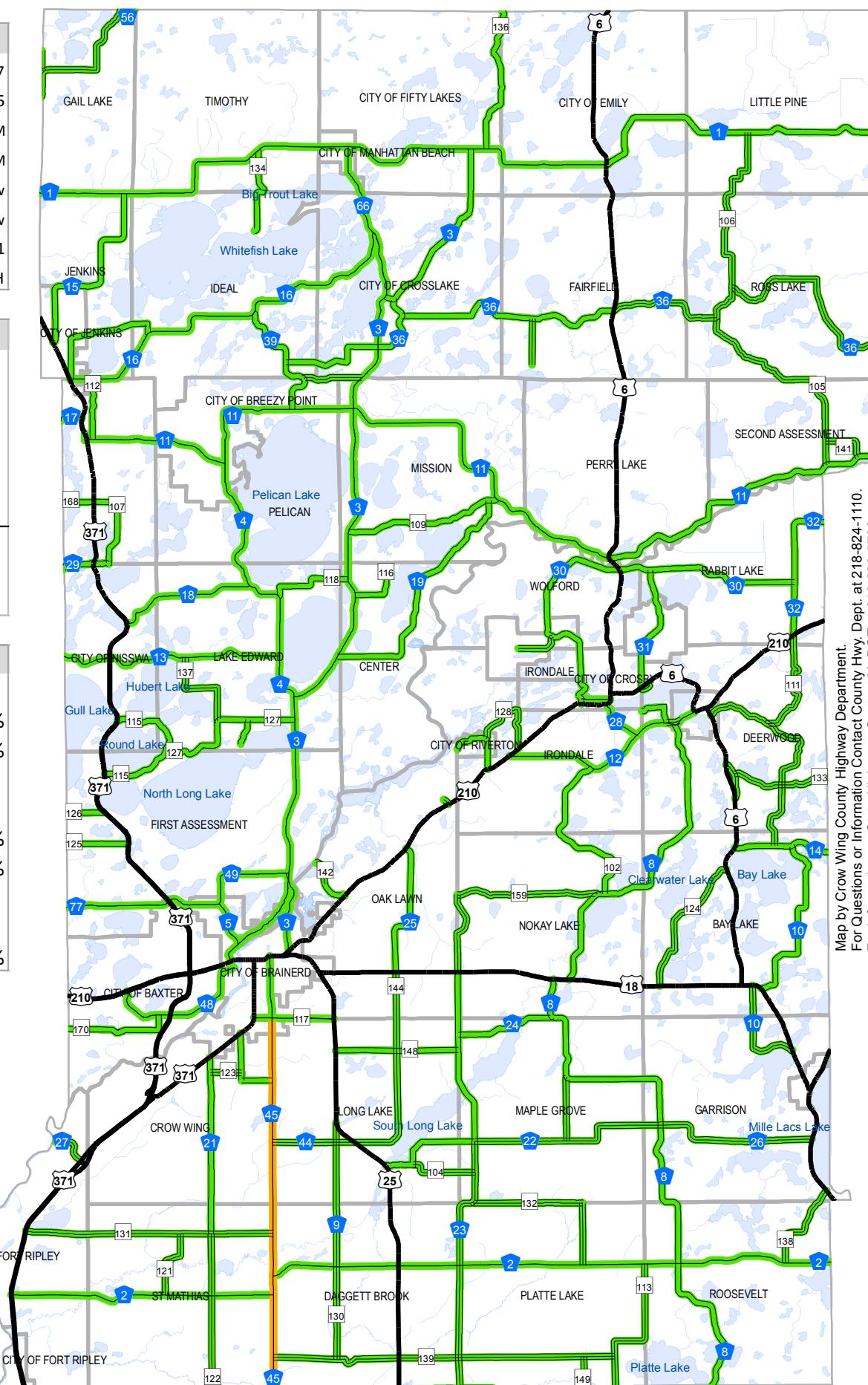
— MnDOT Highway

Route Priority

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

Route Target

- Target Achieved
- Target Partly Achieved
- Target Not Achieved



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 #6 2017-15

Date 12-11-17

Salt Tons	Salt \$	Sand Tons	Sand \$	Brine gal	Brine \$	Mat. Total	Equip \$	Reg. Personnel	OT \$
171.5	\$15,210	0.25	\$9	1929.3	\$1,273	\$16,492	\$12,455	\$5,388.00	\$812

Total \$35,147

Total \$35,147 11.75 hrs = \$2,991 per/hr
\$63 per/CL/Mile 189 man hours

Forecast

Snow was forecasted to start falling at 9 P.M. 12-10-17. Light winds until 10 A.M. 12-11-17. Snow ending at 9 A.M. 12-11-17. Around an inch was predicted. Road temps were forecasted to drop 12-11 afternoon. Strong winds forecasted mid morning into the evening 15-25 mph.

Pre Plan

Start plowing at 4 A.M. 12-11 to get a majority of the snow off.
Apply 500 lbs on centerline.

Comments

Snow started at 11 P.M. 12-10-17. Ended at 2:30 A.M. Started snowing hard again at 5 A.M. 12-11 while the plows were out.

Second wave of heavy snow fell from 5 A.M. - 8 A.M. 11-11-17.
Operators did not put salt down in areas with blowing snow.

Conditions

Heavy snow at times.
Light ice glaze under the snow.
Road temps in the mid 20's when we started plowing.
Strong winds did not allow material application in some spots.

Road	RDTemp	Date/Time		Air Temp
12	26	12\11\17	4:00 AM	26
142	15	12\12\17	3:00pm	19

Date	High	Low
12/10/2017	29	18
12/11/2017	33	6
12/12/2017	24	-1

Summary

Plows started to plow and then the second wave of snow hit. Plows turned around and replowed initially plowed roads again.
Material worked well where the wind was not blowing.
We were cautious on applying salt in blowing areas.
Had a few drifts to clean up on 12-11-17.

Decisions Made

Apply 500 lbs on centerline to areas where wind isn't an issue.
Start plowing at 4 A.M.
Areas that did not have material applied were icy but cleaned up well over night with the wind and cold temps.
We did not apply material on CR 45 because of the blowing snow. The road condition improved overnight but the road did not pass until 11 A.M. 12-12 due to a thin ice layer.
Did not plow gravel in order for it to pack down and preserve the gravel.

Lessons Learned

Leaving blowing areas untreated worked well. They cleaned up with the wind.

500 lbs worked well.

Turning around and replowing helped clean the roads up better.

Goals Met/Not Met

<u>Plowing</u>	<u>Bare wheel paths</u>
Priority 1 Met	Priority 1 not met
Priority 2 Met	Priority 2 met
Priority 3 Met	