

# CROW WING COUNTY

## March 5, 2018 Snow Event #17 2018-7



Reported Event Conditions	
Date:	3/5/2018
Event No:	#17 2018-7
Begin Time:	3/5/18 12:00AM
End Time:	3/6/18 6:30AM
Weather:	Snow
Precipitation:	8" - 12" Snow
Temperature:	38 - 5
Wind:	15-45 MPH

Event Costs	
Salt	\$17,507
Sand	\$17
Brine	\$2,195
Equipment/Fuel	\$40,938
Personnel Reg.	\$15,898
Personnel OT	\$4,997
<b>Total</b>	<b>\$81,552</b>
Cost Mile	\$146
Season Total:	\$706,477

Priority By Route	
<b>Priority 1</b>	
% Target 1A Met:	100%
% Target 1B Met:	90%
<b>Priority 2</b>	
% Target 2A Met:	100%
% Target 2B Met:	100%
<b>Priority 3</b>	
% Target 3A Met:	100%

### Legend

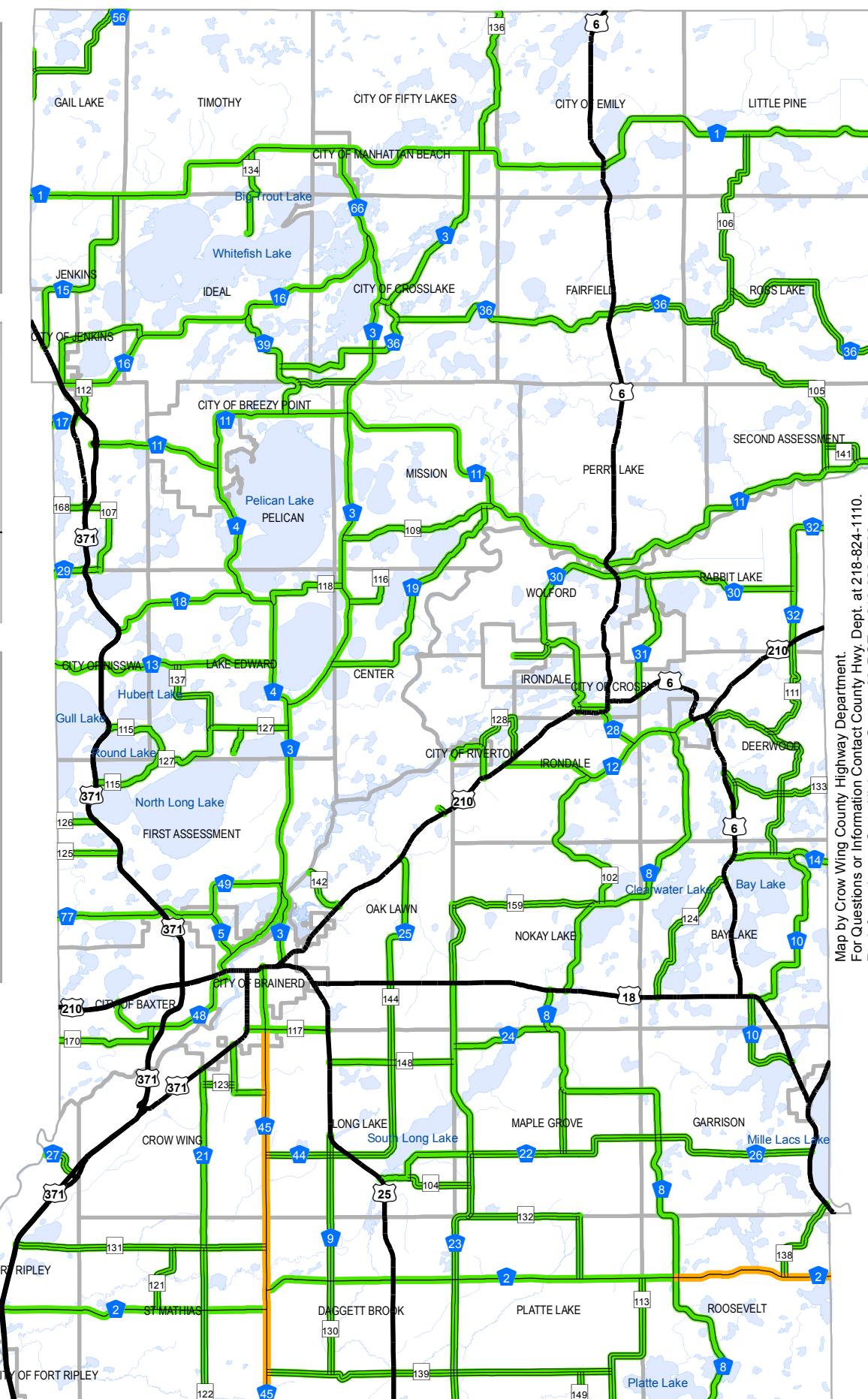
— MnDOT Highway

### Route Priority

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

### Route Target

- Target Achieved
- Target Partly Achieved
- Target Not Achieved



Report Date: 3/8/2018

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 #17 2018-7

Date 3-5-18

Salt Tons	Salt \$	Sand Tons	Sand \$	Brine gal	Brine \$	Mat. Total	Equip \$	Reg. Personnel	OT \$
287	\$17,507	0.5	\$17	3325	\$2,195	\$19,719	\$40,938	\$15,898.00	\$4,997

Total \$81,552

**Total** \$81,552      32 hrs = \$2,548 per/hr  
\$146 per/CL/Mile      613 man hours

### Forecast

Rain expected to start at 11:00 P.M. 3-3-18

Snow expected to start at 9:00 P.M. 3-4-18

1" of rain and 9"-12" of snow forecasted

10-40 MPH winds expected

heavy snowfall amounts of .5"-.8" per hour expected during the day on 3-5-18.

Snow forecasted to end at 10:00 A.M. 3-6-18

### Pre Plan

Begin plowing at 7:00 A.M. 3-5-18 and apply 300 lbs at intersections.

Snowplows will concentrate on drive lanes and keeping the roads open.

Snowplows will keep plowing into the evening, around 7:00 P.M.

Begin plowing again at 4:00 A.M. 3-6-18.

### Comments

Snow fell more on the west side of the county. 2"-6" throughout the County at 7:00 A.M. 3-5-18.

Event started at 12:00 A.M. 3-5-18.

Event ended at 6:30 A.M. 3-6-18

The wind continued throughout 3-6-17 causing drifting and snow to stick to the road and compact.

Compaction was tough to remove. The salt didn't start working until noon on 3-6-18.

Second wave started about 3:30 pm 3-5.

### Conditions

Snow and wind out of the east southeast.

Wind was strong 3-5 & 3-6 15-45 mph

Blowing snow stuck to the road.

Road	RDTemp	Date/Time		Air Temp
Hwy 25	30	3\5\18	8:00 AM	31
Hwy 6	30	3\5\18	8:00 AM	31
Hwy 25	26	3\6\18	2:00 AM	26
Hwy 6	29	3\6\18	2:00 AM	26
Hwy 25	41	3\7\18	10:00 AM	18
Hwy 6	36	3\7\18	10:00 AM	18

Date	High	Low
3/4/2018	38	35
3/5/2018	38	27
3/6/2018	33	6
3/7/2018	27	5

### Summary

We were challenged to keep up with the snow because of the duration of the event, amount, timing and type of snow.

The roads cleaned up well on 3-5 before the second wave of snow. All roads were black and wet. When the second wave hit the intensity of the snowfall (over 1" per hour) and the wind >45 mph gusts aided in the snow sticking and compacting to the roads. 3-6 we had trouble getting the compaction off.

On 3-5 where we applied salt, the snow was catching, sticking and compacting. However, these areas

prevented bonding of the compacted snow to the roadway on 3-6.

#### **Decisions Made**

Start initial plowing at 7:00 A.M. 3-5-18 and apply 300 lbs at intersections.

End plowing between 7-8 pm 3-5.

Begin plowing again at 3 am 3-6, apply 400 lbs on centerlines.

#### **Lessons Learned**

We should have applied salt on centerline on 3-5 to reduce compaction. We realized this on 3-6.

On 3-5 we saw the salt we applied catching and creating compaction but overnight it softened and plowed off the roadway easier.

#### **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	