

CROW WING COUNTY

January 28, 2019 Snow Event #4 - 2019 Jayden

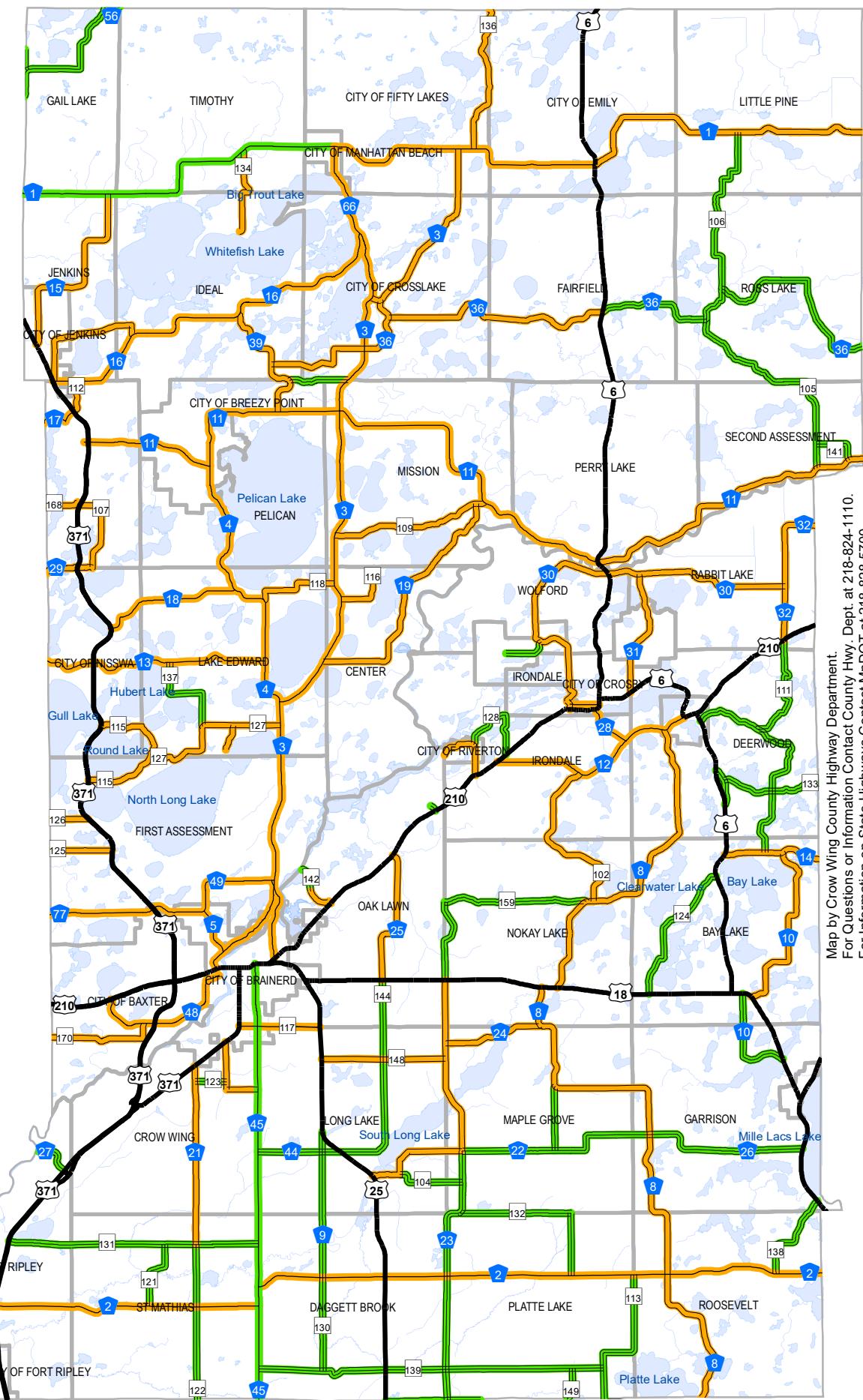
Reported Event Conditions	
Date:	1/28/2019
Event No:	#4-2019 Jayden
Begin Time:	1/27/19 5PM
End Time:	1/28/19 6AM
Weather:	Snow
Precipitation:	6"
Temperature:	1/-28
Wind:	15-40 MPH

Event Costs	
Salt	\$4,526
Sand	\$3,978
Brine	\$762
Equipment/Fuel	\$27,303
Personnel Reg.	\$10,831
Personnel OT	\$2,338
Total	\$49,738
Cost Mile	\$89
Season Total:	\$460,460

Priority By Route	
Priority 1	
% Target 1A Met:	100%
% Target 1B Met:	15%
Priority 2	
% Target 2A Met:	100%
% Target 2B Met:	1%
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: 2/1/2019



2018/2019 Summary For Snow Event #4 -2019 Jayden

Date 1-28-19

Salt Tons	Salt \$	Sand Tons	Sand \$	Brine gal	Brine \$	Mat. Total	Equip \$	Reg. Personnel	OT \$
53.25	\$4,526	117	\$3,978	1154	\$762	\$9,266	\$27,303	\$10,831.00	\$2,338

Total \$49,738

Total	\$49,738	24 hrs =	\$2,072 per/hr	393.5 man hours
			\$89 per/CL/Mile	

Forecast

4"-6" of snow forecasted to start falling at 12:00 p.m. 1/27/19.

Strong winds on 12/29 15/30 mph. Dangerously cold temperatures with wind chill advisories in effect.

Actual Event

Event start: 5:00 p.m. 1/27

Event ended at 6:00 a.m. 1/28

Pre Plan

Start plowing at 2:00 a.m. on 1/28 & applying a 50/50 mix of treated salt & sand to intersections and curves. Will not apply material to straight stretches of roads, will let cold temps freeze dry the roads.

Comments

Snow continued to fall until 6:00 a.m. 1/28.

Road temperatures too cold for salt to work effectively.

Conditions

6" snow fell by 6:00 a.m. 1/28. Very cold temperatures.

Roads had a light glaze of ice and intermittent snow compaction at various intersections.

Road	RDTemp	Date/Time		Air Temp
Hwy 25	-8	1\27\19	8:00 AM	-24
Hwy 25	4	1\28\19	2:00 AM	1
Hwy 6	1	1\28\19	8:00 AM	-3
Cr 3	-24	1\30\19	7:00 AM	-29
Hwy 6	-22	1\31\19	9:00 AM	-36
Hwy 6	-1	2\1\19	8:00 AM	-3

Date	High	Low
1/26/2019	7	-24
1/27/2019	1	-28
1/28/2019	8	-18
1/29/2019	-11	-31
1/30/2019	-16	-36
1/31/2019	-5	-40

Summary

Temperatures were very cold. Salt was ineffective. Applied sand to intersections where black ice formed from vehicles' exhaust.

Most priority one roads pasted initially but black ice and snow flurries compacted at intersections, not allowing the roads to reach a continuous bare wheel path in each direction.

Most Priority 2 roads did not achieve their Target B goals due to temperatures.

Decisions Made

Start plowing at 2:00 a.m. even with continued snowfall forecasted. Cold temps prevented salt from working effectively. Used a 50/50 blend of treated salt & sand at intersections and curves.

Lessons Learned

Salt was ineffective during this entire event. Temperatures did not allow melting. Sand provided some initial traction but blew off the roads, was carried away or covered up with black ice from exhaust.

Snowplow dispatch time worked well, allowing roads to be scraped clean. The temperatures and snowfall

added to compaction and ice where we could not scrape it down to bare pavement.

Goals Met/Not Met

Plowing	Bare wheel paths
Priority 1 Met	Priority 1 Not Met
Priority 2 Met	Priority 2 Not Met
Priority 3 Met	