City of Madison Streets & Urban Forestry Division

ONBOARDING VIDEO #3

Frequently Asked Questions – Snow & Ice Control

March 2023



Snow & Ice Basics

• Two core elements of snow and ice response

Salt Routes Citywide Plowing

Salt Routes

What are salt routes?

861 miles of traffic lanes that make up the main thoroughfares.

Used by Metro Buses, near schools, near emergency services (hospitals, fire stations, etc.)

<u>This map is for the</u> <u>winter of 2022/2023.</u> <u>It will be different next</u> <u>winter.</u>



When we treat the salt routes

- When it is actively snowing, the Streets Division deploys trucks to maintain the "salt routes."
- These roads are plowed and salted as needed for the entirety of the storm.
- 32 trucks citywide circle through salt routes.





Salted roads

Salt, time, temperature, and traffic combine to help make roads free from snow (mostly).

This is Olin Ave between S. Park Street and John Nolen Drive.

The Trouble with Salt

- All the salt put down on sidewalks, parking lots, and roads finds its way into our waters
- Enters the storm drains and out into our lakes & infiltrates our drinking water.
- This has been a known problem *for decades*. See the article in the photo from 1977.
- We *must* be cautious with salt



How the Streets Division Controls Salt Use

- Operators go through salt usage trainings
- •Careful evaluation of which streets are salted
- •Deploying what is appropriate for road conditions & temperatures
- •Pre-treating roads when possible with saltwater brine
- •Salt scales



Citywide Plowing

WHEN WE PLOW

DEERE

 Three or more inches of snow accumulated on the roads and the storm is at or near its end.

Citywide plowing takes 12 – 14 hours from start to finish

This is a plowed residential street.



Without salt and regular traffic, residential streets will have a compacted layer of snow and ice on them after plowing.

Plows cannot push down to peel up snow and ice from the road.

And roads are crowned to help drainage while plows are flat.

Plow deployment

For citywide plowing, city is divided into over 60 different subareas.

All of these areas are assigned equipment and they start plowing at the same time.

No one is assigned to be last.



What does it take to plow Madison streets?



From City Fleet:

- 10 Bobcat-like vehicles
- 9 Pickup truck plows
- 2 Grader
- 11 Loaders
- 68 Plow trucks

From Heavy Equipment Contractors:

- 3 Graders
- 33 Loaders
- 9 Plow trucks
- 7 Tractors

Total combined vehicles:

152

Why does it take so long to plow the whole city?

Madison has roughly 1,861 miles of traffic lanes to cover.

That's like driving from Madison, WI to the Mojave Desert in California

It just takes a lot of time.

(Plows have to drive up and down streets multiple times likely traveling well over 1,800 miles to plow everything)



Why did the snowplow block my driveway?



- It's the physics of plowing a street curb-to-curb
- It is not intentional
- Yes, it is unavoidable

I live in a cul-de-sac and I have concerns about plowing...

Roads like this have many problems that are inherent to their design.



There's snow in front of my mailbox and the USPS won't deliver my mail.

The Streets Division aims to plow snow all the way to the curb, but sometimes homeowners will still need to clear out an area for their mail carrier.



What is alternate side parking?

Alternate side parking is in effect each night 1am to 7am from November 15 to March 15 for people who park on the street outside of the Snow Emergency Zone.

On ODD numbered days, you need your car parked on the ODD side of the street between the hours of 1am and 7am.

On EVEN numbered days, you need your car parked on the EVEN side of the street between the house of 1am and 7am.

Parking Enforcement issues tickets for violations of these rules.

Tickets are \$20 when a Snow Emergency is not in effect.



November 15 - March 15



What is a "snow emergency"?

When snow emergencies are declared, every vehicle parked on the street within the entire City must follow alternate side parking rules - including Snow Emergency Zone.



Stay Informed

www.cityofmadison.com/winter

- Snow Plow Updates
- Snow Emergency Alerts
- Snow Emergency Text Alerts
- Alternate Side Parking Text Alerts
- Sidewalk Snow Shoveling Updates
- Salt Usage Guidance
- Locations for Free Sand
- Winter Recreation Opportunities
- Winter Biking Tips



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