



City of Milwaukee

2020-2021 Snow and Ice Control Operations

COVID-19 Protocols and Workforce Impacts

- Staffing
- Standard Operating Procedures
- Requirements
 - Masks
 - Social Distancing
 - Limited person to person contact
 - Enhanced cleaning of facilities, equipment, and vehicles
 - Hand sanitizer stations
- COVID-19 notifications, contact tracing, and follow up



City of Milwaukee

- 96 square miles
- 1,472 miles of street
- 7,000 lane miles

Average:

- Snowfall: 47"
- General Ice Control Operations: 21
- Plowings: 4



Mission

- Rapid calculated response to snow and ice control events
- Bare pavement arterial streets
- Residential streets which are drivable at slower speeds
- Keeping the city open and safe to travel for all modes of transportation



Arterial and Residential Goals



Equipment



Contracted Equipment

- 47 endloaders

DPW Equipment

- 6 brine trucks for anti-icing
- 27 Hybrid salt trucks for anti-icing
- 113 salt trucks
 - 18 for bridge runs
- 120 garbage trucks with plows
- 36 sidewalk tractors
- 8 endloaders



Salt Usage

Average usage per winter:

- 2016-2020: 43,488 tons
- 2011-2016: 54,557 tons

Current inventory

- Rock Salt= 25,000 tons
- Treated = 5,500 tons



Brine Usage – Anti-icing and Pre-wetting



2017/2018 – 277,270 gal.

2018/2019 – 640,277 gal.

2019/2020 – 783,629 gal.



Liquids Program - Storage



Brine Storage Capacity

2016 – 26,000 gallons

2020 – 81,000 gallons

Ca Cl Storage Capacity

2016 36,750 gallons

2020- 44,750 gallons



Anti-Icing - Equipment



Anti-Icing Results



- Anti-icing/Pre-wetting
- Application timing
- Types of Operation
 - Bridges
 - Arterials and bridges
 - Residential
 - City-wide
- Hotmix



General Ice Control (GIC)

Arterials 2-4 hours to complete one pass

Residential Streets 3-5 hours to complete one pass

- Bridge Runs using 18 trucks
- General Ice Control 113 trucks
 - A Team and B Team Drivers
- Underbody plows
- Front plow blades



Ordinance 116-8: Sidewalks to be kept clean

- Property owners required to clear sidewalks no later than 24 hours after snow has stopped
- \$50 charge for first violation, \$100 for any subsequent violation
- And minimum remediation charges \$130 + tax
- Corners maintained by the adjacent property owner



General Plowing- 4" or more of snow accumulations



- ❑ On average 16-24 hours to clear the Streets;
additional 24-48 hours for clean up
- ❑ 110 Garbage Packers with front plow blades
- ❑ Private endloaders clearing cul du sac, dead end streets, & cross overs
- ❑ Garbage and recycling collections may be suspended
- ❑ Clean up after the streets are completed:
 - ❑ 42,000 sidewalk crosswalks/corner to clear
 - ❑ 59 miles of non-assessable sidewalks
 - ❑ 3,417 bus stops clearing overnight operation



Snow Emergency

- ❑ Snow Emergency
 - ❑ Alternate-side parking: 10pm-6am
 - ❑ Progressive fines: \$50, \$100, \$150 & tow eligible
 - ❑ Designated MPS lots open 7pm-7am
 - ❑ City Lots open 7pm-7am
- ❑ Notifications (Bilingual)
 - ❑ Website [Milwaukee.gov/snow](https://www.milwaukee.gov/snow)
 - ❑ E-notify
 - ❑ Parking text alerts
 - ❑ Social Media



Dedicated to the DPW employees who
are available at a moment's notice
to work long hours under
adverse conditions to keep the
City open and safe to travel.

