

CITY OF MILWAUKEE SNOW AND ICE CONTROL SEASON DEBRIEF



Milwaukee



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

Mission

- Rapid calculated response to snow and ice control events
- Bare pavement arterial streets
- Safe and passable residential streets
- Keeping the city open for business and safe to travel

Arterial and Residential





61342

MILWAUKEE

D.P.W.

25261

MILWAUKEE

61342

61322

MILWAUKEE

4003

CAUTION

Equipment



DPW Equipment

- 6 brine trucks for anti-icing
- 107 salt trucks
 - 18 for bridge runs
- 121 garbage trucks
 - with plows



Training



Planning



Chaotic Science

DPS OPERATIONS FLEET FORESTRY PARKING SANITATION		Weather Services Forecasts	
		April 14, 2018 for the weekend	11:00 AM
Time Start	Saturday	Friday	Saturday
Time End	Sunday late	Sunday into Monday morning	Sunday into Monday morning
Amount	Up to 1"	Up to 1/4"	.1" to .75"
Temps.	Saturday: 37 - 33 degrees Sunday: 37 - 33 degrees	Saturday: 36 - 32 degrees Sunday: 34 - 25 degrees	Saturday: 35 - 30 degrees Sunday: 35 - 30 degrees
Comments	Wind advisory till 7pm. West side of the area might get colder tonight which potentially could lead to some freezing rain and sleet. Ground temps are warm so any icing would most likely occur only on elevated surfaces tonight prior to 7am sun. Light rain Sunday afternoon will mix with and change to light snow after 3-5pm. Up to an inch or two accumulated on grassy and elevated surfaces.	Strong storm system will continue to affect area with rain showers today and into tonight and windy conditions. As colder air begins to work in, the rain may become mixed with sleet, although accumulations area not likely on pavements tonight. Rain/sleet will eventually change over to snow as colder air continues to wrap in. Some pavement accumulations are possible but will melt during the day Sunday. Pavement accumulations along with freeze-back are likely Sunday night.	Rain showers Saturday with a transition to freezing rain and sleet by the evening hours. Sunday looks to see a rain/snow/sleet mix during much of the day with the potential to turn to all snow later in the evening, with a dusting to an inch of snow likely. Winds stay blustery as well, with gusts of 30-40 mph slowly diminishing toward the evening as the system begins to push away.



- ❑ Multiple weather sources
- ❑ Lake enhancement

Salt

- 9 storage facilities
- 42,500 tons storage capacity

Treated (Green) Salt-
Pavement temperature $15^{\circ}\downarrow$



Brine



2017-2018 Gallons used - 277,270





25273

D.P.W.

MILWAUKEE

61354

P







Operations Totals

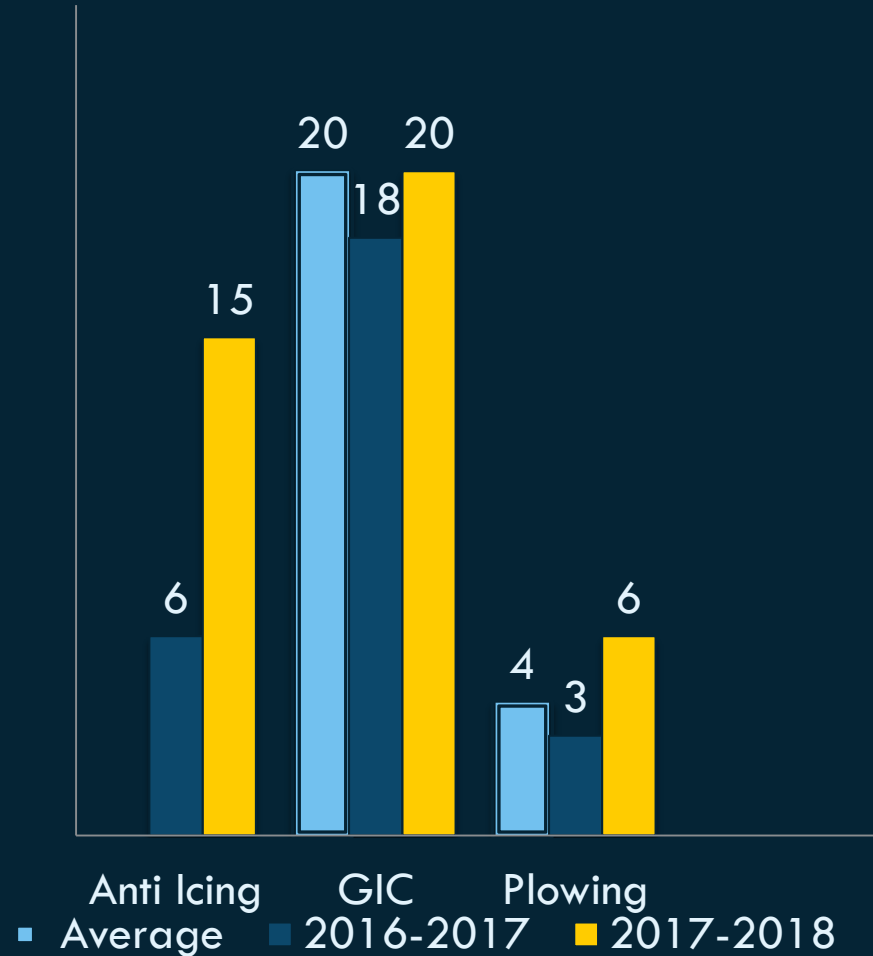
Average snowfall - 47"

- 2016-17 - 37.6"
- 2017-18 - 46.7"

Average Salt Use - 55,000 tons

2017-18 Used

- Rock Salt- 44,172 tons
- Treated Salt- 7,871 tons



Communication

- Updates to Electeds
- Website
- E-Notify
- Press

Snow and Ice Control Operation Status

No DPW Operation or Snow Emergency at this time.

DPW Operations staff is monitoring weather forecasts and will respond appropriately to maintain safe and passable streets in the City of Milwaukee.



Standard [Winter](#) and [Night Parking](#) Regulations are in effect.



No disruption to garbage or recycling collection.

Clear snow and ice around and on top of your garbage and recycling carts.



Sidewalks must be clear of snow and ice 24 hours after snow has stopped falling. Residents **SHOULD NOT** shovel, blow or plow snow back into the streets.

Sidewalk snow enforcement requests can be made [online](#) or by calling **414-286-CITY**.

Snow and Ice Control Operations for April 3-4, 2018, as of 4/4 at 7:30 am

Current Conditions: 24 degrees, Snow has ended with up to 2" of wet icy snow on the ground.

Forecast: Cold temperatures for April with a high expected today of 34 degrees and a low of 16 degrees overnight. More snow forecasted for the afternoon of Thursday into the late evening, 1"-3". Snow again Sunday night through Tuesday. Cold temperatures are forecasted for the next two weeks with an active precipitation pattern expected.

The Plan: We started the operation last night by addressing the bridges as those pavement temperatures dropped first during the sleet/snow mix. By 10 pm all salt trucks were out in force and have been working continuously. Currently the salt trucks are addressing all city streets by using underbody plows as needed to clear the snow and treating surfaces to prevent freezing. Spring snow events are difficult due to the high moisture content of the snow and unpredictable changing conditions as to when air and pavement temperatures will drop below freezing. In addition, events such as this one that start as rain, do not allow us to anti-ice, pretreat roads or begin salting too soon as the rain washes away the application.

Parking: No impact

Garbage Service: No impact expected.

Respectfully,

Laura Daniels | Director of Operations

841 North Broadway Room 620 | Milwaukee, WI 53202 |



DPW Snow Operation- Alternate Side Parking



- ❑ Exception Streets
- ❑ DPW Operation vs. Snow Emergency
- ❑ Compliance
- ❑ MPS Lots

Vehicles





9:09AM

Time, Temperature, and Traffic

10:59AM



Continuous Process Improvement



SNOW  **MOBILE**
WINTER TEXT ALERT



American Public Works Association (APWA) Excellence in Snow and Ice Control



PUBLIC WORKS

FIRST RESPONDER



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