Winter Maintenance Program 2024 - 2025 Department of Public Services



Overview

The goal of DPS is to remove snow and ice from our roadways in an efficient and rapid manner. This does not always mean pavement will be bare and dry, but it will be passable. While the severity of each winter storm is unpredictable, DPS will continue to work to maintain the highest level of customer service possible while balancing efficiency in snow and ice control.

The Traffic and Roads Operations Division (TROD) of DPS is responsible for coordinating winter roadway safety for approximately 3112 lane miles. These lane miles consist of thoroughfares, bridges, overpasses, side streets, cul-de-sacs and alleyways.

Snowfall totals: Cincinnati sets record for





COURTESY: M

.7 WVXU | By Nick Swarts

WEATHER ALERT DAY

Cincinnati area deals with one of most memorable snowfalls in recent history

The National Weather Service reports we got a record snowfall of 4.2 inches today, breaking the old record of 3.5 inches set in 1981. In total, CVG saw 10.6 inches over two days. bit.ly/3DHfHZH





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@NWSILN

[5:11 PM]...Record Daily Maximum Snowfall Set at Cincinnati, OH...

A record snowfall of 4.2 inches was set at Cincinnati on 01/06/25. This breaks the old record of 3.5 inches set in 1981.

This brings Cincinnati's 2-day total to 10.6 inches.

5:12 PM · 1/6/25 · 17K Views

26

Cincinnati's first snowfall of 2025 almost breaks 1977 record

» OHIO SNOW TOTALS THIS SEASON	
CINCINNATI	16.0"
CLEVELAND	15.1"
AKRON	13.6"
COLUMBUS	7.3"
TOLEDO	2.0"
and a second	the second second

> CINCY LEADING THE PACK!



Hamiltor, County EMA 🦃

Sheriff McGuffey has declared a Level 2 Snow

HAZARDOUS and icy. Only drive if necessary and

use extreme caution. All employees should contact

their employer to see if they should report to work.

Snow Advisory

Issued for Hamilton County by

Sheriff Charmaine McGuffey

dways are HAT ARDOUS. Only thos

Level 2

Tune to local media for more info. #CincyWX

Advisory for Hamilton County. Roads are







Heaviest snowfall in a decade is possible as wintry mix blasts across the country

Nation Jan 5, 2025 5:28 PM EST

Annual Snowfall Totals



Preparation

Strategic Planning

- Routes
 - Update route books ensuring each district has 25 binders
 - Update Supervisor contact info
- Materials
 - Ensuring domes are fully stocked with salt
 - Ensuring liquid materials are at full capacity
- Review of polices and procedures
 - Completed during classroom training

- Street Adjustments
 - Adding any new dedicated streets submitted by DOTE
- Staffing levels
 - Ensuring all districts and A & B shift are assigned drivers by Nov 1st
- Collaboration
 - Cincinnati Public Schools
 - METRO
 - Uptown Consortium
 - DCI
 - City Departments







Preparation

Equipment

- Nov 1st: equipment ready for service
 - Mechanics continue to repair equipment after snowfall
- Inventory
 - Ensuring each district is balanced with necessary snow vehicles and equipment
- List of repairs
 - Ensuring there is a reporting mechanism in place to report downed equipment during an active event
- Plows inspected for damage, cleaned, lubricated and stored

Training

- Snow Removal Procedures
- 5 years or less Training
- Classroom Training
- Cold Stress
- Radio Etiquette
- Power Lines







Winter Operations Methods

- Goal: Remove snow and ice from the roadways in an efficient and rapid manner.
- Anti-icing
 - Used to prevent the formation or bonding of snow and ice by timely applications of a chemical.
 - Begins with the use of dry, liquid or pre-wetted material such as salt, salt brine and IceBite (beet juice).
 - Crews proactively anti-ice bridges, hills and overpasses
- De-icing
 - Used during/after precipitation to assist with the dissolving accumulation.
 - Begins with plowing, using dry or liquid materials, application of heat (friction) or a combination of these practices.

Winter Operations Methods

Snow Hauling

- When large amounts of accumulation occur, **where plowing is not possible**, snow is hauled. This mainly occurs only in the CBD area.
- Large equipment such as backhoes and loaders are used to load snow and haul to dump area.

• Plowing

• The most effective practice at removing compacted snow or lose ice before applying chemicals. If pavement and snow are cold and dry, and the tires are not adhering to the pavement, application of chemicals will have an insignificant affect.

Street Priorities

Street prioritizations were developed using the Cincinnati Area Geographic Information System (CAGIS), a division of Enterprise Technology Solutions (ETS) mapping systems. All major arteries, feeders, and alleys are included in the city's snow and ice control plan.

Streets are treated and plowed based on three categories of route priorities: Primary, Residential and Pickup.

- Primary routes include major thoroughfares and hospital routes
- Residential routes are pathways off major thoroughfares and still accessible with larger trucks
- Pickup routes are streets which can only be accessed with smaller trucks

All routes are treated by priority beginning with primary.

Lane Miles Comparison



Equipment

	South	North	East	West
Pickup	4	4	4	4
Contractor Dump	3	1	3	3
Single Axle	11	10	10	10
Tandem	4	3	3	3
Brine	4	4	4	3
Loader	2	1	2	1
		••	• •	
Total	27	22	24	23

Additional Equipment supplied by MSD include 4 single axle trucks.











Staffing

- Winter maintenance personnel report to one of four locations strategically throughout the City.
- Personnel for each reporting location are assigned to one of two shifts so that during an event we can operate 24/7 until the need has concluded.
- Each location has a Supervisor and ideally 15 drivers plus a loader operator for each shift.
- Support personnel such as dispatchers and mechanics report to auxiliary locations.
- Winter Night Force (WNF)
 - 25 employees with two Supervisors and one Dispatcher work the night shift from late fall to early spring.
- A & B Shifts
 - Crews split into 2 shifts during major events.
 - A = 7AM 7PM
 - B = 7PM 7AM

Winter Operations Staff

- DPS does not have a designated Winter Operations staff.
- Winter Operations staff is pulled from various divisions of DPS and volunteers from various City Departments.
- Staff is taken off their primary assignment during this time.
- Average Years of Experience = 4 years





Assorted Roles of Winter Operations

Traffic & Road Operations Division (TROD)	Neighborhood Operation Division (NOD)
Laborer	Laborer
Road Repair – Potholes, Landslides, Stormwater	Greenspace Maintenance - Cutting
Traffic Control – Painting, Street Closures	Illegal Encampments - Clean up
Street Signs - Replace and Repair	Flooding- Clean up
Winter Operations - Plowing & Treating	Winter Operations - Plowing & Treating



Snow Plow Tracker

Residents are able to track real-time winter operations data via the CincyInsights Snow Plow Tracker. During winter weather events the interactive website shows:

- Where snow vehicles have already been
- When a vehicle was on a particular street
- The distance covered by snow vehicles since the start of the winter weather event



Opportunities for Additional Support

- On Street Parking Messaging and Removal
- Available Assets









Opportunities for Additional Support

- Technology
- Innovation for Geographical Challenges



After Action Review & Next Steps

- City Manager Directed SIET Initiative
- Comprehensive Review and Continuous Improvement effort across all the 3 Phases of Winter Operations: Pre, During, and Post event.
- Scope of work includes:
 - Staffing Size, scalability, skill sets
 - Resources DPS/Enterprise Fleet Inventory
 - Command & Control/Technology See ourselves
 - Communications Timely, coordinated, consistent

Immediate Opportunities

Staffing

• Activate CDL & non CDL staffing from outside DPS earlier in the event

to begin clearing residential streets.

Resources

• Utilization of already equipped vehicles from outside DPS at the onset of operations

Command & Control / Technology

• Implement the piloted OPDA solution leveraging GPS, and SRs to identify challenged areas.

Communications

• Streamlined communications internally and to the public/media.

Additional Opportunities

Staffing

 Identify and implement a strategic, scalable, and adaptive city-wide staffing plan for extreme weather events. Plan will outline mandatory vs voluntary roles & responsibilities and differentiate city response based on extreme event circumstances.

Resources

• Fleet inventory, maintenance planning.

Command & Control / Technology

• Route and street classification reviews, fully automated tracking systems, in vehicle technology, cross-departmental coordination.

Communications

• Coordinated communication plan and public response process for DPS, 311, CPD/Sherriff's Office, Administration & Council. Will cover preevent, active, and post-event service delivery.

Updated Enterprise playbook with a comprehensive plan of action for extreme weather emergencies, clear roles and responsibilities, defined expectations.

Questions?

