

Winter Maintenance In The City of Ann Arbor

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Public Works Quick Facts

Service Functions
Water Distribution
Sanitary Collection
Stormwater
Solid Waste
Street Maintenance
Forestry
Park & Public Space Maintenance
Communications Systems

117 Full Time Employees

Public Works Technicians (97) Supervisors (9) GIS Coordinator (1) Engineer (1) Administrative Support (3) Office Manager (1) Financial Analyst (1) Assistant Manager (2) Unit Manager (1)

Quick Facts

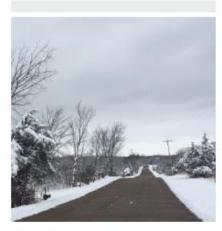
- 100 miles of major roads
- 197 miles local roads
- 51 miles paved public path (park and non-park)
- Crosswalk Islands
- Gateway Treatments
- Salt dome (1)

Winter Maintenance Goal

- Provide passable roadway. clear pedestrian paths in ROW
- Free from drifts, snow ridges, and as much ice and snow pack as is practical and can be traveled safely at reasonable speeds.

Goal is not bare pavement

Winter Pavement Conditions



Bare Pavement

May be wet. Accurate and precise plowing and chemical use may be needed to achieve this condition and maintain normal travel speeds.



Bare Wheel Paths

Some slush may remain. Plowing and chemical applications have been made. The roadway is open to near-normal travel.



Plowed and Treated

Wheel paths may or may not be visible, some snowpack remaining, plowing and chemical use performed.



Plowed to Snowpack

Maintenance is being performed, but snowpack remains across the roadway.

Winter Response Fleet

- 10- single axle spreader 5 yd. dump trucks
- 3- tandem10 yd. dump trucks
- 34 additional vehicles to supplement in large events
- Specialized equipment for pedestrian paths

Winter Maintenance Methods

- Plows
- Salt (granular)
- Calcium Chloride
- Sand/Salt Mixture



Winter Weather Treatment Thresholds and Priority

- Less than four inch snowfall accumulation
 - 1. Treat major roads
 - 2. Treat known trouble spots on local roads as needed
 - 3. Treat park paths, non-motorized paths and pedestrian islands
- More than four inch snowfall accumulation
 - Increased staffing for plowing streets
 - Divert some staff from park snow response
 - 1. Treat major roads
 - 2. Plow local roads
 - 1. Prioritize by Solid Waste Collection Day

Routes

- 1 Major Routes (8)
 - Highest volume road travel lanes
 - New! School Route
- 2 Local Routes (22)
 - Next lower volume roads, turn lanes, median lane
- Multiple Non Motorized Routes

What we don't do: Bus Stops, Cross walk approaches, exit ramps, freeways



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Non-motorized

- Multiple Routes and Methods
 - **ROW** walks, and paths
 - De-Icing is primarily a sand/salt combination, or just sand
 - Longer Segments of Path
 - De-Icing is primarily Salt
 - Bridge decks and longer segments of path/walk that receive snow from Streets Plowing activities
 - De-Icing is primarily salt

Non-motorized

- Pedestrian Island Routes (2)
 - Shovel or small snow throwers
 - > De-Icing is primarily Calcium Chloride or Magnesium Chloride
- 2 Hand Routes:
 - Bridge steps, tight spaces
 - Shovel or small snow throwers
 - > De-Icing is primarily Calcium Chloride or Magnesium Chloride
- Facility Lots and Drives
 - De-Icing is primarily Salt

Challenges and Initiatives

Challenges:

- Student Sections On Street Parking used as car storage
- Narrow Streets, One Way Streets
- Snow Emergency

Initiatives

- Pilot Parking Restrictions
- Brine System
- Temperature Pucks



Budget

- Major Streets: \$737,000
- Local Streets: \$329,000
- Metro Fund:\$130,000
- Parks (General Fund) \$295,000

Challenges: Non-motorized, Alleys Initiatives: Brine System

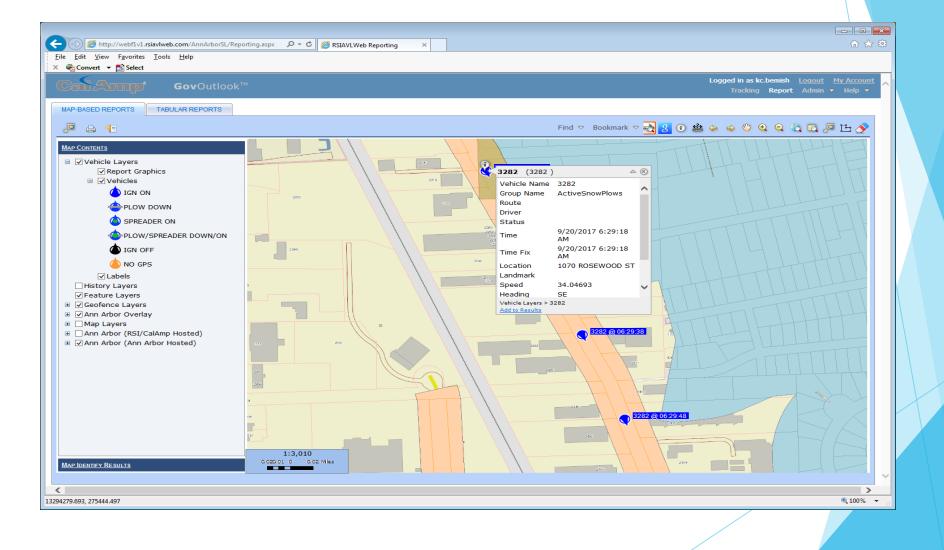


Resources and Tools

- Free Sand/Salt mix
- Green Lights
- ► A2Fix It
- Vehicle Tracking



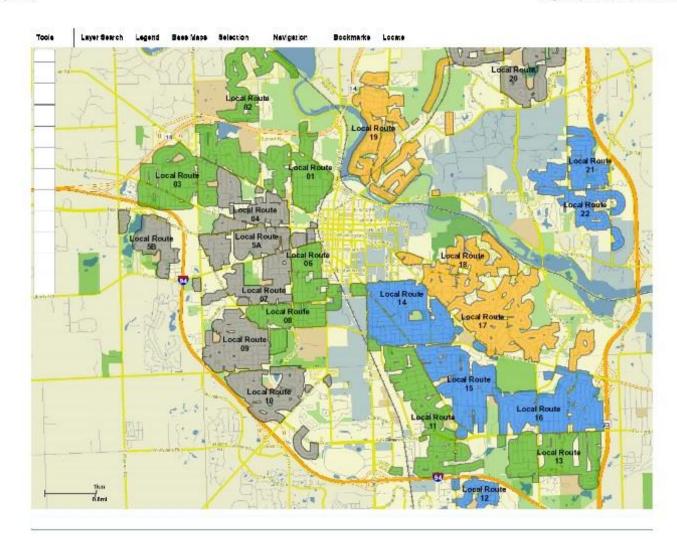
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Coming Soon!

Citywarks

http://cityworks/a2ams/FieldMap



Questions

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