Yours Truly

FY25 Snow Program Update

Public Works Committee
October 14, 2024



Outline

- Snow Predictions
- Snow Plan Goal
- Available Resources
- Equipment Upgrades
- Training
- Helpful Tips
- How City Council Can Help
- Questions

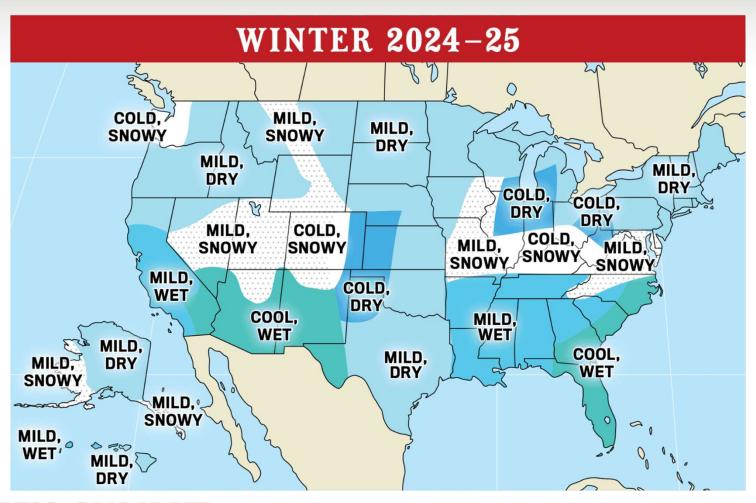


Farmers Almanac



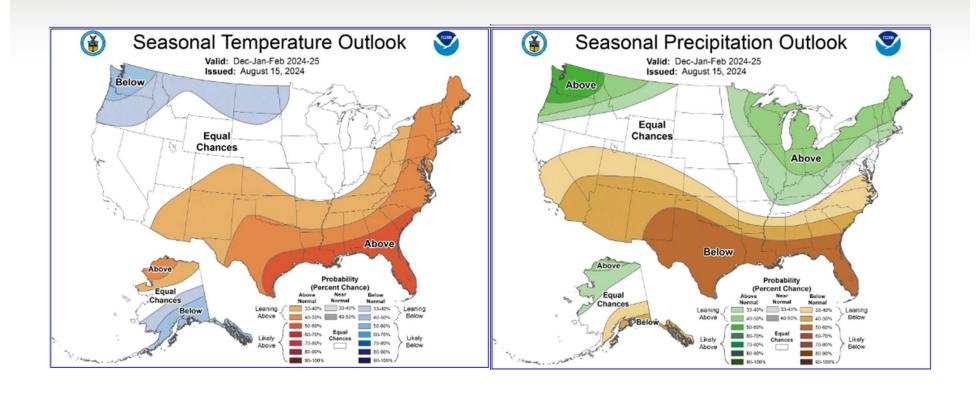


Old Farmers Almanac





National Weather Service





Snow Plan Goal

- The goal of the City of Lee's Summit (City) is to provide adequate mobility and safety for properly equipped and prudently operated vehicles within a reasonable time after the end of the storm.
 - Provide a high level of customer service to our citizens
 - Defined Level of Service and completion time
 - Operate within available financial resources
 - Budget using three to five year average of actual expenses
 - Ensure operational balance for the City and employees
 - Continuous 24/7 response as needed



Snow Plan Goal

- The City's Snow Plan outlines steps for the completion of storm response within 10 48 hours after precipitation has ended provided that required levels of equipment/ people are available.
- Residential routes treated only when < 2" of snow accumulation

- Level 1 (< 1" of snow and pretreatment) 10 hrs.
- Level 2 (1 < 2" of snow) 24 hrs.
- Level 3 (≥ 2 " 6") 32.5 hrs.
- Level 4 (> 6" 10") 40 hrs.
- Level 5 (> 10") or sustained winds > 30 mph) 48 hrs.



Available Resources

Plows

- 10 Dump trucks
- 11 One ton trucks

Support Equipment

- 2 Backhoes (Level 5 event)
- 1 Front end loader (Used to load spreaders)
- 2 Skid Steers (Level 5 event)



Available Resources

Staff

- 2 Managers
- 4 Supervisors
- 2 Snow Desk staff
- 32 PW Operators (2 new expansion employees in FY25)
- Multiple volunteers from WU, PW Engr, DS, Admin, PD, Fire, P&R, etc.

Infrastructure

- 2 Salt domes (6,000 Ton total capacity)
- Conveyor system
- Brine System (40,000 Gallon capacity)
- Calcium Chloride Storage Tank (12,000 Gallons)
- Radio communications.
- AVL
- Turn by turn routing
- Public Facing Mapping



Equipment





Equipment Upgrades Complete

New Trucks have:

- Heavier plow and frame mount
- Larger salt capacity
- Wing plow
- Liquid distribution







Salt Dome/Conveyor

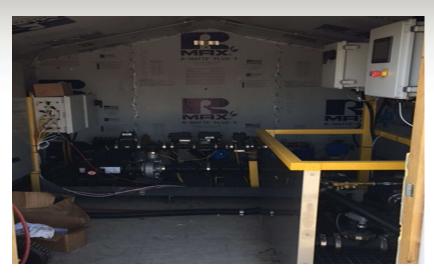








Salt Brine System











Salt Brine







Salt Brine





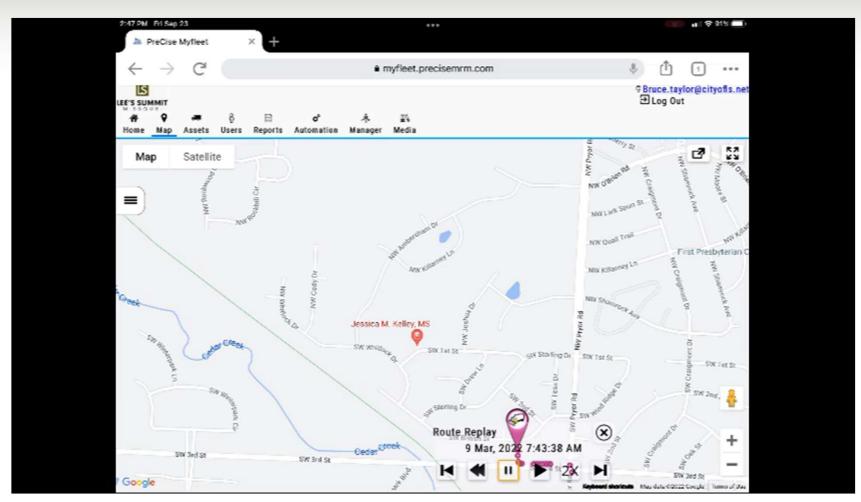


AVL

- Automatic Vehicle Locating
 - Tells us where the snow plows are
 - Tells us what the snow plows are doing
 - Better QA/QC
 - Customizable
 - More Reliable

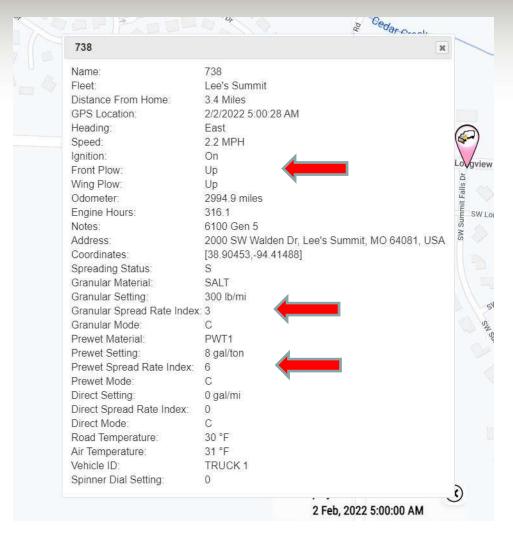


AVL



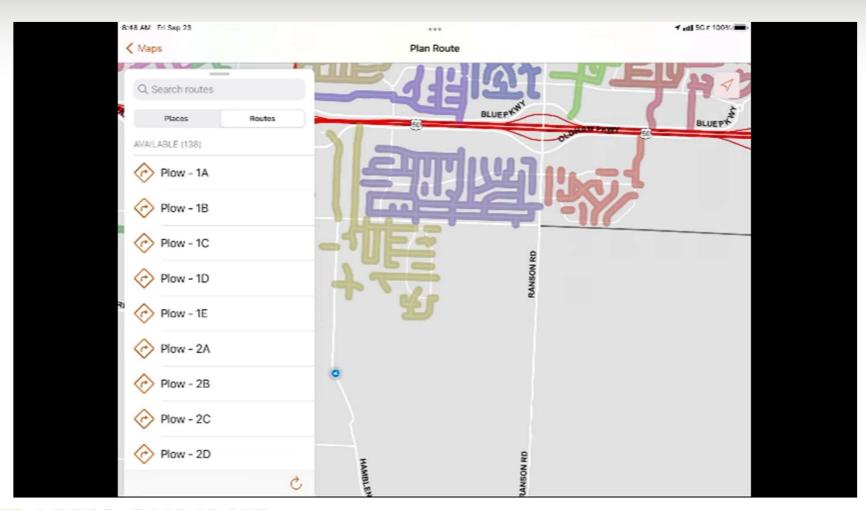


AVL



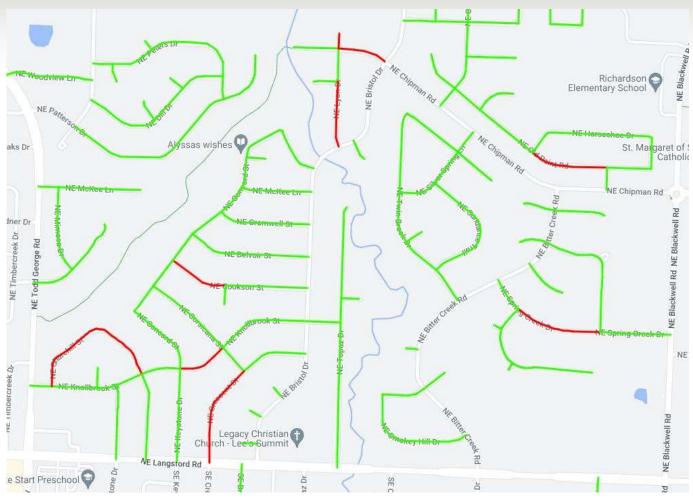


Turn by Turn Routing





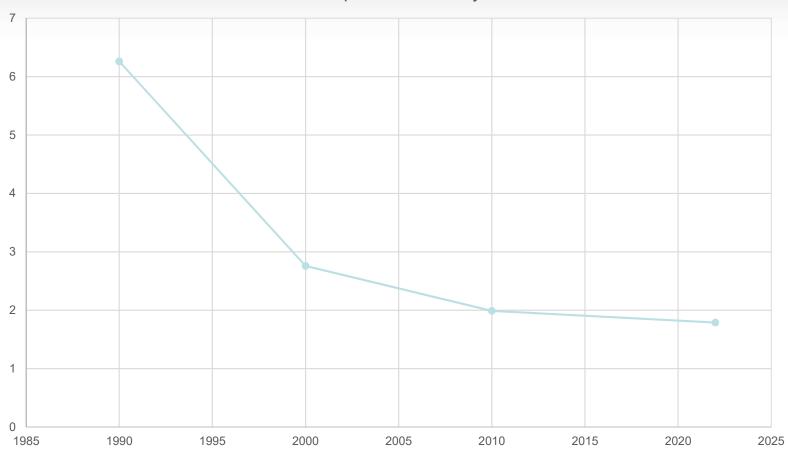
Public Facing Map





Efficiency Gains

Minutes per Lane Mile by Year





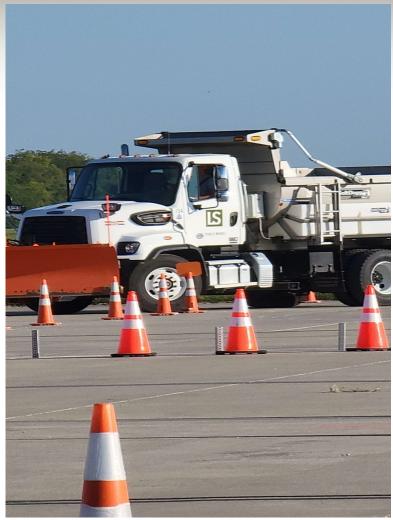
Snow Rodeo

- September 16 20, 2024
- 85 employees participated in the training
- New rodeo course
 - Loading and unloading materials
 - Following traffic rules
 - Driving skills



Snow Rodeo





Snow Training

- Public Works has scheduled a mock event
 - November 6, 2024
 - Snow plow drivers will drive routes to become familiar with them
 - Test all technology systems AVL, Turn by Turn Routing, Snow Tracker
 - Public Outreach



Helpful Tips

- Remove cars from the street
- Keep trashcans and basketball goal out of the street
- Do not build snow forts in the piles of snow in the street
- Do not shovel snow from your driveway into the street
- Shovel downstream of snow plowing to lessen the amount of snow left at your driveway entrance



How City Council Can Help

- Help managing expectations
- Help rally our troops
- Help educate the public (share our snow goal)
 - Our goal is to provide adequate mobility and safety for properly equipped and prudently operated vehicles within a reasonable time after the end of the storm.
- Help keep the public informed during snow events



Questions



