



2019-2020 Snow & Ice Control Program Update

28 October 2019

Overview

- Snow & Ice Control Program Goal(s)
- Priority Street & Snow Storm Classifications
- Performance Goals
- Team Resources
- Staff Training
- Communications
- Citizen Responsibilities
- New Practices for 2019/2020
- Updated Emergency Snow Plan



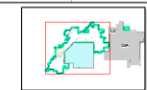
Program Goal(s)

To provide fiscally responsible service during snow and ice events that support the safety and mobility of the City's transportation system by removing or displacing snow and ice from all designated priority streets, parking areas, trails, and City-maintained sidewalks as safely as possible.

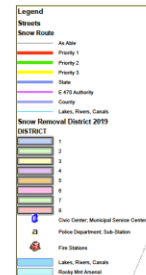


Priority Street Classifications

| Priority Street Classification | Definition(s) |
|--------------------------------|---|
| Priority 1 | Major arterials connecting hospitals, fire & police stations, and other emergency units |
| Priority 2 | All remaining arterials and selected collectors completing the network or providing school access |
| Priority 3 | All remaining collectors, bus routes, and hilly areas |
| Priority 4 | Residential / low volume streets* *Plowed only when snow accumulations completely block traffic movement |



Prepared by Commerce City Public Works
January 23, 2019
Map for: Snow Routes (K2xK2)



Legend

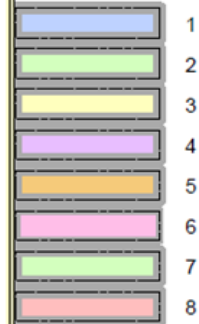
Streets

Snow Route

- As Able
- Priority 1
- Priority 2
- Priority 3
- State
- E 470 Authority
- County
- Lakes, Rivers, Canals

Snow Removal District 2019

DISTRICT



[Map](#)

Storm Classifications

| Storm Classification | Anticipated Storm Length | Anticipated Accumulation |
|----------------------|--------------------------|--------------------------|
| Class 1 | < 12 hours | 4 inches or less |
| Class 2 | > 12 hours | 4 inches to 8 inches |
| Class 3 | 24 hours or more | > 8 inches |

Performance Goals

| Storm Classification | Performance Goal(s) |
|----------------------|---|
| Class 1 | <ul style="list-style-type: none"><input type="checkbox"/> Clear snow from all travel lanes of Priority 1 & Priority 2 streets<input type="checkbox"/> Provide at least one passable travel lane on Priority 3 streets |
| Class 2 | <ul style="list-style-type: none"><input type="checkbox"/> During storm event:<ul style="list-style-type: none">• Clear snow from all travel lanes of Priority 1 & Priority 2 streets<input type="checkbox"/> After storm - or sufficient clearing of Priority 1 & Priority 2 streets:<ul style="list-style-type: none">• Clear snow from all travel lanes of Priority 3 streets |
| Class 3 | <ul style="list-style-type: none"><input type="checkbox"/> During storm event:<ul style="list-style-type: none">• Provide at least one passable travel lane on Priority 1 streets<input type="checkbox"/> After storm event or when sufficient clearing of Priority 1 streets:<ul style="list-style-type: none">• Clear snow from all travel lanes of Priority 2 streets<input type="checkbox"/> After sufficient clearing of Priority 2 streets:<ul style="list-style-type: none">• Clear snow from all travel lanes of Priority 3 streets |

Team Resources

Streets

Equipment:

- 11 tandem dump trucks with plows/sanders
- 4 1-ton trucks with plows/sanders
- 1 loader
- 1 backhoe
- 1 motor grader

Staff:

- 19 full-time Streets Staff
 - 2 Maintenance Supervisors
 - 1 Vacancy

Parks

Equipment:

- 7 1-ton trucks with plows/sanders
- 4 1-ton trucks with plows
- 4 small pickups with plows
- 5 small snow plow units (mowers with plow and cab conversion)
- 1 skidsteer
- 1 small tractor - cab & loader bucket

Staff:

- 13 full-time Parks staff
 - 2 Maintenance Supervisors
 - 1 Vacancy
- 5 variable-hour Parks Staff
 - non-CDL

Fleet Replacement

11 Total

2 replaced in 2017

5 replacements ordered in 2019 (awaiting delivery)

4 scheduled to be replaced in 2020



Staff Training

- Annual training provided for all Streets & Parks Division staff
 - Tandem axle plow truck operation and plowing/sanding techniques
 - 1-ton plow truck operation and plowing/sanding techniques
 - Small equipment plowing techniques
 - Street districts (8)
 - Building grounds/parks site specific training
 - Truck and equipment preventative maintenance, upkeep, and calibrations
 - Assorted additional safety training (slip/trip/fall, shovel/back safety, winter weather preparedness, etc.)



2019 Snow Roadeo

- Top 4 staff represented Commerce City in the APWA Western Snow Roadeo competition in September
- Commerce City teams finished 11th & 27th out of 51 teams from around the state



Jairo Aguayo Caleb Denniston

Juan Sanabria Steve Skowronski

Communications

<https://snowtrooper.c3gov.com/>



Internal Communications

- News & Views employee newsletter articles
 - Weather information hotline reminders
 - Winter weather tips
- Intranet news posts
- Internal information hotline
 - (303) 227-8787
 - Updated with facility closures, delayed starts, etc. by Community Relations



External Communications

- Commerce City Connected newsletter article
 - Snow Trooper and online maps
- Social media posts
 - Facebook, Next Door, Twitter
- Website “news flash” alerts
 - C3gov.com home page
- External Emergency Weather Hotline
 - (303) 227-8776
 - Updated for facility closures by Community Relations

Citizen Responsibilities

Commerce City Code of Ordinances

[Section 6-2013. - Unsafe sidewalks and rights-of-way.](#)

[\(b\). *Snow and ice.*](#)

- Remove snow/sleet/hail/ice from sidewalks within 24 hours of the last accumulation
- Cannot dump or deposit snow from private property onto public property or a neighboring property
- Cannot dump or deposit snow against a fire hydrant or traffic control device



Commerce
CITY

New Practices for 2019-2020

- New Staff Rotation Philosophy
 - Emphasis on training and rotation through districts to increase driver autonomy, adaptability, and flexibility
- Improved Callout Process
 - Proactive monitoring and self call out system for Supervisors to dispatch themselves and crews
 - Cameras for monitoring conditions throughout the City remotely via cell phones
 - Proactive approach targeting early responses



New Practices (cont.)

- Additional Barricades
 - Purchased an additional 30 Type III barricades to increase effectiveness and ability to shut down roads as needed
 - Plans to deploy and pre-stage barricades prior to predicted severe storm events
- Temporary Snow Fencing
 - Investigating adding snow fencing to 96th Ave. to reduce wind drifts and road closures



New Practices (cont.)

- Developed new protocols for communicating City acceptance of newly developed roads
 - PW Operations now included on Engineering communications for road acceptance
 - Immediately added to regular and emergency snow route maps



Updated Emergency Snow Plan

- New Title - “Severe Winter Weather Extreme Cold Operations Plan”
 - Updated based on lessons learned from previous storms
- Stakeholders involved in update included:
 - Emergency Manager
 - Police Department
 - Public Works Operations
 - City Manager’s Office
 - Communications Division

Emergency Snow Plan (cont.)

- New Processes/Protocols
 - Plan disseminated to all Departments
 - Improved communication and access to the plan
 - Schedule response plan meetings prior to predicted Severe Winter Weather Events (EOC)
 - To include all stake holders outlined in the plan
 - Better defined list of Essential Personnel
 - Specific work groups and positions identified and duties and/or responsibilities outlined



Emergency Snow Plan (cont.)

- New Processes/Protocols
 - Sheltering and Warming Centers
 - American Red Cross (preferred provider)
 - Evaluating ACSD#14 and SD27J facility access/coordination
 - Additional training and certification to support these operations if/when needed
 - Recreation Centers
 - Civic Center (Council Chambers)

Questions



Residential Street Challenges

- Snow Displacement
 - Limited area for snow storage
 - Windrows block driveways & vehicles parked curbside
 - Increased risk for damaging vehicles/property
- Severe Winter Weather Plan calls for response to residential streets only when impassable

