

City of Redmond
Snow and Ice Control Plan
2019-2020

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Exhibit #1, Snow & Ice Priority Routes Map

Exhibit #2, Snow & Ice Maintenance Zones Map

City of Redmond Snow and Ice Control Plan 2019-2020

Overview

The purpose of the Snow and Ice Control Plan (Plan) is to establish and communicate general policies and procedures that help make travel within the city limits as safe as possible and to minimize economic hardship during winter storm events.

In this Plan city streets are classified into four categories:

1) Arterials
2) Collectors
3) Streets serving schools and emergency services, and
4) Streets serving residential neighborhoods

The arterials, collectors, school and emergency services streets receive sanding and plowing priority. This assures each residential area is near a plowed street and that emergency services can be provided. Snow and ice control operations are intended to provide prudent motorists with a reasonably safe travel surface. However, caution should be exercised when travelling cleared streets or deciding to drive on non-cleared residential streets.

During inclement weather, the Public Works Transportation Division strives to maintain the traffic flow in the city limits to as near normal driving conditions as possible in an expeditious and cost-effective manner.

The City's goals include:

1. Within available budget, staffing and equipment resources, respond in a cost-effective manner appropriate to the anticipated accumulation levels of snow and ice on city roads necessary to facilitate safe travel;
2. Assist Police, Fire and Emergency Medical Services in fulfilling their duties;
3. Provide safe and passable school bus routes to minimize school closures, and;
4. Reduce economic losses that may result from workers being unable to travel to their jobs.

Street Priority Levels

The City prioritizes streets for plowing and sanding operations based on traffic volume, public safety, and access to emergency facilities and schools.

General priorities during a storm event (which is defined as two inches and accumulating) are arterials and collectors with special attention to emergency service routes, school bus routes and public transit routes (see Exhibit #1, Snow & Ice Priority Routes). Certain residential streets are included as a priority based on chronic icing problems such as at hills, curves or intersections that are likely to cause traffic accidents. These priority streets total approximately 100 lane miles depending on school schedule.

Non-priority residential streets will be addressed after the priority streets have been cleared. Initial plowing operations on residential streets will be limited to opening two lanes of travel until all streets have been addressed. Once initial coverage across the city has been completed, plowing operations will continue with an intent of achieving curb to curb coverage. These residential streets total approximately 220 lane miles.

Procedures

Transportation Operations staff will closely monitor upcoming weather forecasts to prepare equipment and personnel. Early morning and weekend road checks performed by staff will determine the need for sanding/plowing operations and the level of response.

Initial response to a snow event consists of tandem plowing operations on the wider priority routes, then assignment of the equipment to individual zones (see Exhibit #2, Snow & Ice Maintenance Zones). Snow accumulation of six inches or greater may trigger activation of contracted snow plowing in residential streets allowing City crews to concentrate on the priority routes.

If parked vehicles, garbage containers, or other obstructions interfere with the safe and continuous operation of snow plowing equipment, the street will not receive plowing until the conditions are improved. Mailboxes damaged from lack of owner maintenance, snow load, or vandalism is not the responsibility of the City. Postal regulations (Postal Operations Manual 632.14) place responsibility on the resident to maintain the clear approach to the mailbox for delivery.

Levels of Response

Factors considered when establishing response efforts include snowfall rate and accumulation, moisture content, temperature, wind velocity, time of day, workweek or weekend, and storm duration. Resources will be allocated to provide a cost-effective response appropriate to the weather conditions. The majority of operations typically consists of sanding with plowing occurring when snow levels reach two inches and accumulating.

Five levels of response are planned for as outlined below:

Level	Operation	Equipment
Level 1	Limited sanding	Two Trucks/sanders
Level 2	Full sanding	Seven Trucks/sanders
Level 3	Limited Plowing (less than full City/ higher elevations)	Six Trucks plows/sanders
Level 4	Full City plowing	Ten pieces of primary equipment, sustained operations
Level 5	Snow removal/clean-up (Downtown)	Snow Blower and dump trucks

Off-Street Areas

Parking Lots

City-owned and managed parking lots will be plowed by Public Works. Parking lots will typically be plowed at four inches or more of accumulation. When required, the removal of snow piles will be accomplished by the Transportation Division or contracted services.

Sidewalks/Driveways

Snow and ice control on sidewalks adjacent to commercial properties are the responsibility of the adjoining property owner, occupant or person in charge of property per City Code [5.335, §6]. All driveways and sidewalks adjacent to privately owned properties are the responsibility of the owners. Snow removed from sidewalks and driveways should be retained on the properties to avoid blockage of the street drainage systems. Sidewalks under City responsibility (buildings, parking lots, parks) will be maintained by Public Works with high pedestrian use areas receiving priority.

Staff Scheduling

The Transportation Division Manager (or designee) will allocate available personnel within Public Works to ensure sufficient operators for all primary snow plowing equipment during winter storm events. This includes splitting the Transportation Operations crew into two winter shifts providing weekday coverage from 5:00 a.m. to 10:30 p.m. This enables personnel to monitor roadway conditions ahead of active travel times.

For sustained operations a total of nine sander/plow operators, two mechanics, one lead operator, and one supervisor are needed per shift. Additionally, four people are needed to clear the City parking lots and sidewalks. To achieve sustained 24-hour operations, two 12-hour shifts may be created by deploying staff from other Public Works Divisions. The Transportation Division Manager (or designee) will determine the need for activating contracted services to supplement snow plowing operations.

For Level 3 or Level 4 operations, two of the four mechanics may report after hours to the vehicle maintenance facility to repair equipment as needed. For sustained 24-hour operations, mechanics may split into two shifts to provide continuous coverage.

Equipment

Advance Inspection and Maintenance

The Transportation and Fleet Services Division (FSD) staff prepares vehicles and equipment in advance of the winter snow season. FSD inspects, tests and operates all equipment that will be utilized and performs any needed repairs. Transportation staff runs drills on setting up, mounting and loading equipment on the vehicles.

Training

Public Works personnel will receive training on equipment prior to the winter season to ensure replacement operators are available to staff all primary snow plowing equipment should vacancies occur during a storm event.

GPS Tracking Equipment

Transportation Operations has implemented tracking equipment on all primary snow plowing equipment as well as remote transmitters for contracted services to ensure coverage throughout the city during major events.

Available Equipment

*(3 ea.) 10 Wheel, 10-12 Yd. Dump Trucks w/sander & snowplows
*(3 ea.) 6 Wheel, 5-7 Yd. Dump Trucks w/sander & snowplows
*(3 ea.) Utility Pick-up Trucks with V-Plows
*(1 ea.) JD Motor Grader w/10 Ft. moboard
(1 ea.) 6 Wheel Truck w/sander
(2 ea.) Wheeled Loaders w/3 Yd. bucket
(4 ea.) Backhoe Loaders w/1 ½ Yd. bucket
(1 ea.) Trackless Wheeled Tractor w/60" Snowblower, Plow, & Broom attachment
(1 ea.) JD Lawn Tractor w/Plow & Snowblower
(1 ea.) ATV 4 x 4 w/Plow
(1 ea.) Skid Steer loader

Primary snow removal equipment

Public Information and Communication

Public Engagement

The website "RedmondStreets.com" serves as the main source of information regarding street conditions within the city. A media release ahead of the season's first storm will direct users to the site for general information about the City's snow and ice operations as well as for status updates during storm events. The City's main website and Facebook or Twitter pages will be additional sources of information.

Contacting the City

During any snow/ice event an increase in call volume from residents and property owners is expected. The most common calls are from residents reporting problems, inquiring on conditions or requesting timelines for when their street will be plowed. Residents can contact Public Works by phone at 541-504-2000 or by e-mail at streets@ci.redmond.or.us. Equipment may be diverted from their scheduled route only when requested by an emergency service agency such as the Redmond Police or Fire Department.

Additional Considerations

Pre-Season Street Check

In advance of the winter season, Transportation staff will pre-drive plow routes to ensure plows and other heavy equipment have a clear path of travel. This may include trimming trees and marking/flagging curbs or obstructions that operators need to be aware of when there is snow cover.

Vehicle Parking

Residents can help with plowing operations by parking their vehicles in their driveway or other suitable location ahead of a predicted weather event. This will allow for quicker and more effective plowing operations curb to curb. Residential streets may not be plowed if parked vehicles, garbage containers, or other obstructions interfere with safe and continuous plowing operations. Equipment will return to plow after vehicles or obstructions are removed.

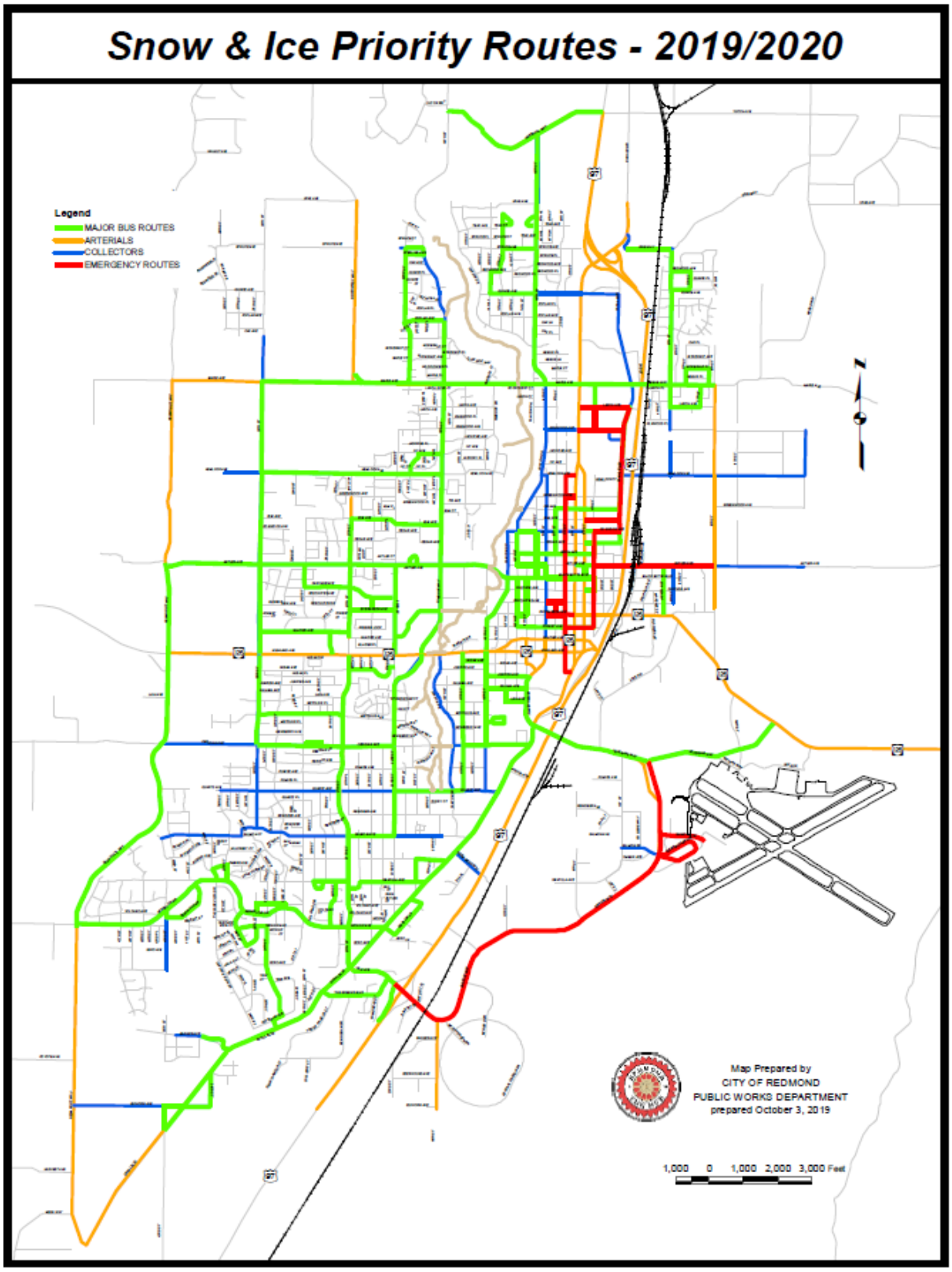
How Can You Help

- Prepare your vehicle for Central Oregon's winter climate (traction tires or chains).
- In residential areas, leave room for plows to get through safely by parking off the streets.
- Be patient, every reasonable effort is being made to keep roadways open.

Summary

The Snow and Ice Control Plan establishes general policies and procedures for the city's response to winter weather events within available resources. The overall goal is to make travel within the city as safe as possible and to minimize economic hardship during severe weather events. Specific streets and locations are prioritized according to traffic volume, public safety, and access to emergency facilities and schools. Keeping our city's streets clean and safe during the winter is a big job and it can't happen without the cooperation of all our residents and businesses.

Attachments: *Exhibit #1, Snow & Ice Priority Routes Map*



Attachments: *Exhibit #2, Snow & Ice Maintenance Zone Map*

