

## Jurisdictional Review for Winter Maintenance on Residential Streets

### Jurisdictional Summary

The following table summarizes information from municipalities in similar climates that have publicly available service levels for snow clearing and removal.

Jurisdiction	Type	Trigger for Action	Road Description	Response Time	Service Level	Additional Notes
City of Calgary "Seven-Day Snow Plan"	Priority Streets	Clearing and Removal, as well as Snow Routes are declared based on snow accumulation, road temperature, weather forecast, and road conditions	Priority 1 Roads (Major roads with >20k vpd)	Day 1 - Completed 24 hours after the end of the snow event	Plowing and Snow Removal	The City of Calgary does not plow residential down to pavement, haul snow from residential areas, clear back lanes or alleyways, clear private sidewalks, clear snow on walkways between homes (catwalks)  If a major event is expected, Snow Routes are declared in advance of 1 to 2 days
			Priority 2 Roads (5k to 20k vpd, emergency routes, bus routes, routes with on-street bike lanes)	Day 2 - Begins 24 hours after the end of the snow event or when 90% of Priority 1 Roads are completed	Plowing driving lanes (no curb or parking lanes) and piling roadside  No Snow Removal unless Snow Route has been declared	
			Turning lanes and on/off ramps on P1 & P2s, Roads that connect to P2s, Playground & School Zones, Designated hills, Intersections with stop & yield signs, remove windrows at busy crosswalks.	Day 3 – Begins 48 hours after the end of the snow event	Plowing and sanding/salting as required	
			Driving lanes, bus stops	Day 4 -7 – Begins 72 hours after the snow event ends	Sand/salt driving lanes, clear bus stops	
	Downtown		Downtown Business Routes with greater than 8k vpd	Day 1 - Completed 24 hours after the end of the snow event	Plowing and Snow Removal	
	Residential Streets			Day 4-7 – Begins 72 hours after the snow event ends	Crews work in residential areas to pack down snow in some areas where equipment can easily navigate No removal is done	

City of Regina	Priority Streets	5 cm of snow has fallen or accumulated	Heavily blocked streets	Opened within 8 hours after the end of the storm to provide emergency access as required	Streets are plowed and snow is not removed from streets unless it is creating significant issues	Ice Control is done selectively on sections of roads, bridges, subways, transit stops, ramps, school frontages, etc within 72 hours of the end of the snow event or as soon as possible  Regina has Snow Routes for approximately 11km of business district roads
			Category 1 – Major Arterial Roads	Completed 24 hours after the end of the snow event		
			Category 2 – Minor Arterial Roads	Completed 36 hours after the end of the snow event		
		10 cm of snow has fallen or accumulated	Category 3 – Major Collector Roads, Industrial/Commercial Roads, Transit Routes not yet completed	Completed 48 hours after end of snow event	No snow removal done. Snow ridges left behind to a max of 30cm at intersections, driveways, alley entrances	
	Category 4 – Minor Collector Roads, School Zones		Completed 60 hours after end of snow event			
Residential Streets (~500km)	Only plowed in the case of a single snow event with an excess of 25cm of snow	Category 5 – Residential Roads	Completed when weather and time permit	Alleys with collections are plowed by trucks with a front blade leaving a snow ridge that residents clear		
City of Winnipeg	Priority Streets	>3cm of snow accumulation	Priority 1 – All Regional Streets, and streets around hospitals for emergency access	Completed within 36 hours after the end of an average snow event	Streets will be plowed or de-iced to bare pavement at full pavement width at night when possible.  Snow removed on bridges, underpasses, along guardrails, major crosswalks, on-street parking in front of commercial businesses when warranted.  Generally, all other snow is	Annual Snow Route Parking Ban 2am to 7am daily on designated Snow Routes across the city. Can be extended to 12am to 7am daily if required.  Excessive ice or snow build-up along medians or between wheel paths shall normally be removed.

		>5cm of snow accumulation	Priority 2 – Non-Regional bus routes and collector streets based on traffic counts, may include some Industrial areas	Completed within 36 hours after the end of an average snow event with priority to bus routes after a major event.	blown to adjacent properties with minimal hauling. Streets will be plowed or de-iced to bare pavement at full pavement width. Generally, snow is blown to adjacent properties with minimal hauling.	Windrows of snow are not generally removed from school zones unless the sidewalks are obstructed.
			Based on inspection/services requests only: Back lanes with refuse collection or for properties with no front street access	Normally completed within 2 days of the end of a regular snow event.	Lanes are normally maintained to compacted snow surface. If removal from the alley is required for mobility it is stored on rights-of-way in the neighbourhood	
			Residential Streets	Upon inspection only, generally after >10cm of snow accumulation or equivalent drifting	Priority 3 – Residential and low volume Industrial streets	
City of Edmonton	Priority Streets	2-3cm of snow accumulation	Priority 1 – Freeways, Arterial Roads, Business Improvement areas	Within 36 hours after end of snow event	Cleared to bare pavement City will remove windrows when required Cleared to bare pavement	While snow is falling – major roadways are cleared when possible, and sand/salt is applied to bridge decks, on/off ramps.  City uses front mounted
			Bus stops adjacent to City property	Within 48 hours after end of snow event		
			Priority 2 – Collector roads, Bus Routes	Within 48 hours after end of snow event		

			Priority 3 – Industrial Roads	Within 5 days after end of snow event		<p>plows to clear roads, underbelly plows to break up snowpack. Graders are used to clear main roadways during major snowfalls.</p> <p>Citywide parking ban can be declared with 8 hours of notice.</p>
	Residential Streets and Alleys	<p>Based on service requests as required</p> <p>Only once 5cm of snowpack has formed</p>		No timeline given	Plowed to smooth snowpack, not to bare pavement	
City of Red Deer	Priority Streets	5cm of snow accumulation	Purple – Hills, bridges, overpasses, high hazard locations, hospital access	Within 8 hours of the accumulation	Plow road	<p>Areas are divided into 12 Snow Zones and residents are alerted to park elsewhere or will be ticketed and towed.</p>
		5cm of snow accumulation	Red – Major arterial roads	Within 72 hours of the accumulation	Plow road	
		5-10cm snowpack (30-40cm of accumulated snowfall)	Blue – Downtown roads	Within 4 days of the accumulation	Plow and remove at night	
		5-10cm snowpack (30-40cm of accumulated snowfall)	Green – Collectors, Transit Routes, and residential streets adjacent to schools	Within 15 days of the accumulation	Plow and remove snow	
		15cm snowpack (>40cm accumulated snowfall) or when operationally feasible	Orange – Industrial and Commercial areas	Plow within 5 days of a 15cm snowpack (>40cm accumulated snowfall) or when operationally feasible	Plow road	
	Residential Streets	5-10cm snowpack (30-40cm of accumulated snowfall)	Grey – Residential Streets	Within 15 days of the accumulation	Plow road, windrows left on both sides of the street	