

Town of South Berwick



Snow and Ice Control

2013

Snow and Ice Control

The Town of South Berwick has a fleet of 9 trucks, a loader, a sidewalk tractor, a backhoe, and a skidsteer that are used to control snow and ice on approximately 130 lane miles of state and local roads, 6 miles of sidewalks, and 9 parking lots. Like most of our neighboring towns, the Town of South Berwick uses an anti-icing approach to snow and ice control that is very effective for returning roads to bare pavement after a storm ends.

About Anti-Icing

There are two approaches to snow and ice control: **anti-icing and deicing**. Deicing is the approach with which most people are familiar because it has been around longer. Deicing is characterized by allowing the snow to accumulate until there is enough to plow, and then, when it is plowed, a large amount of a sand and salt mixture is spread to provide traction. This process is repeated as necessary throughout the storm. This approach will often result in "snow pack"-snow and ice that is bonded onto the road surface. Snow pack can often last for many hours, and sometimes days, after the end of a storm event, and crews can spend many hours of overtime and large quantities of salt to remove it.

Under an anti-icing approach, snow fighters today use carefully calibrated equipment to spread a measured amount of salt early in a storm, and as necessary throughout, to prevent the snow and ice from bonding to the road. Salt is not applied every time the road is plowed. By preventing the snow and ice from bonding to the pavement, vehicle tires have much more contact with the pavement surface and the roads will clear much sooner after the storm ends.

This approach does require better training, equipment and technology, but it also provides a much higher level of service at a lower overall cost. Under either approach, roads can still become slippery from time to time during the storm events; however, anti-icing dramatically reduces the amount of time that the traveling public is exposed to icy conditions.

These pictures were taken within minutes of each other immediately following a winter storm event:



Plowing Priorities

Snow and ice control operations are limited by the resources available (specifically: budget, personnel, equipment and materials). Due to these limited resources, the level of service for snow and ice control has been associated with the Town's established highway corridor priorities.

For each highway corridor priority, target route lengths will dictate the normal cycle times that can be expected based upon average conditions, while local geographic and/or geometric factors will dictate whether particular routes need to be longer or shorter than average. In addition, during a winter storm event, the level of service for all routes will typically be reduced between the hours of 10:00 pm and 4:00 am, depending upon specific storm conditions.

Depending on the timing, intensity, and amount of snow associated with a particular storm, contractors sometimes supplement Town staff and equipment in the plowing operation.

Downtown Cleanup

Snow that accumulates along the curblines in the downtown area is cleaned up and hauled to a snow dump on Norton Street as soon as possible after a storm ends. The cleanup restores parking, pedestrian access between on-street parking and the sidewalks, and opens the drainage basins. Due to the volume of traffic and parking that occurs in the downtown area, most of the snow cleanup occurs at night.

Town of South Berwick-Snow and Ice Control 2013

Route: North	
<u>Operator: Brian Gosselin</u>	
Truck: 89 Ford L9000	
<u>Road:</u>	<u>Milage:</u>
Knights Pond	2.40
Harvey	0.80
Hooper Sands	1.70
Great Hill	0.64
Rodier	1.00
Thurrell	1.80
Boys Corner	2.50
Finson	0.50
Brookwood	0.38
<u>Contractor: Doucette</u>	
Pond	1.59
Junction	0.73
Meadow Pond	0.40
White Tail	0.10
Back Acres	0.15
Black Swan	0.30
	14.99

Route: East	
<u>Operator: Jerry Merchant</u>	
Truck: 2001 Sterling SL7500	
<u>Road:</u>	<u>Milage:</u>
Emerys Bridge	5.80
Ogunquit	2.27
Bennett Lot	2.00
Old County	0.70
<u>Contractor: Doucette</u>	
Old Emerys Bridge	0.30
Earls	0.80
Wildrose	0.44
Schoolhouse Meadow	0.17
Stacy	0.13
Belle Marsh	2.20
Mountain	1.07
	15.88

Route: South	
<u>Operator: Kevin Moynahan</u>	
Truck: 2002 Sterling SL7500	
<u>Road:</u>	<u>Milage:</u>
Route 91	2.00
Roe Fields	0.62
Witchtrot	2.70
Winding Brook	0.34
Old South	1.00
Brattle	0.70
Pine	0.40
<u>Contractor:</u>	
Vine (Brattle to Bridge)	0.30
Old Fields	3.00
Vaughns	0.30
Flynns	0.50
Rt. 101 (Flynns to Bridge)	0.60
Waterside	0.60
Crescent Court	0.20
Lords	0.50
Quamphegan	0.20
Clarks	0.10
Fifes	0.80
	14.86

Route: Agamenticus	
<u>Operator: Douglas Letellier</u>	
Truck: 2000 sterling L7500	
<u>Road:</u>	<u>Milage:</u>
Agamenticus	1.60
Willow	0.80
Tamarack	0.60
Hickory	0.40
Chestnut	0.30
Dogwood	0.30
Springtree	0.50
Buttonwood	0.50
Crooker	0.20
<u>Operator: Nick Messier</u>	
Truck: 2005 F350 Utility	
Alder	0.70
Locust	0.60
Beech	0.20
Elizabeth	0.24
Oak	0.32
Beaver Dam	0.80
Quarry	0.70
High Knoll	0.40
Cottontail	0.10
Mill Stream	0.20
Williams	0.20
	9.46

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Route: In Town	
<u>Operator: Jay Redimarker</u>	
Truck: 2007 GMC 5500	
Road:	Milage:
Main	1.00
Berwick	0.30
Portland	0.70
Norton	0.32
Jewett	0.15
Goodwin	0.22
Colcord	0.10
Dawson	0.25
Front	0.15
Railroad	0.35
Ross	0.15
Spring	0.13
Union	0.18
Paul	0.20
Highland	0.38
<u>Operator:</u>	
Truck: Cat 936 Ladder	
Goodwin Place	0.04
Tibbetts	0.12
High	0.20
Spilanes Hill	0.12
Webster	0.04
Grant	0.07
Butler	0.20
Neally	0.10
Young	0.30
Parent	0.20
Sewall	0.30
Scotts Court	0.06
	6.33
<u>Parking Lots</u>	
Town Hall	
Community Center	
Norton Street	
Railroad Avenue	
Transfer Station	
Library	
Paul Street	
Powderhouse Hill	

Route: Academy	
<u>Operator: Darrel Eaton</u>	
Truck: 2011 Dodge 5500	
Road:	Mileage:
Garland	0.04
Liberty	0.45
Park	0.07
Pleasant	0.15
Middle	0.07
Vine (Rt. 236 end)	0.40
Old Mill	0.45
Great Works	0.17
Farmgate	0.04
Academy	1.10
Drury	0.04
Wadleigh	0.38
Birch	0.10
Hill	0.25
Demers	0.15
	3.86

Route: Sidewalks	
<u>Operator: Frank Baird</u>	
Truck: Trackless	
Road:	Mileage:
Main	1.64
Portland	0.69
Academy	1.12
Norton	0.28
Colcord	0.34
Goodwin	0.36
Agamenticus	0.96
Willow	0.77
	6.16

Route: Maintenance Facility	
<u>Operator: Scott Maltese</u>	
Truck: Ford F250	
Parking Lot	

Route: Buildings	
<u>Operator: Darryl Frank</u>	
Truck: 2008 F-350	
Town Hall, Community Center, Library	

Town of South Berwick-Snow and Ice Control 2013

Route: Downtown Cleanup

Operator: Many

Truck: Trackless with snowblower, skidsteer, town dump trucks, and contracted wheeler(s) as required

Road:

Curbline
Mileage:

Main (Fogarty's to First Baptist Church)	1.44
Portland (Main to Jewett on the west side)	0.37
Portland (Main to Highland on the east side)	0.21
Other streets if clogged by heavy snow	2.02