



Leitrim County Council

Winter Service Maintenance Plan

2019 - 2020



Document Control

Revision	Status	Revision Details	Date
			October 2010
Rev A, B, C, D		Updated	Sept 2011, 2012, 2013 2014
Rev E, F, G		Updated	Sept 2015, Oct 2016, 2017
Rev H		Updated	Oct 2018
Rev J		Updated	Oct 2019

Approval List

Role	Name	Signature	Date
Author	Sean Vesey A.E.		
Checker	Terry McGovern S.E.		
Winter Service Manager	Terry McGovern S.E.		
Director of Services for Transportation	Joseph Gilhooly		

Distribution List

Issued To	Organisation / Company	Location
Duty Engineers	Leitrim Co. Council	
Area Engineers	Leitrim County Council	Manorhamilton, Carrick On Shannon
Winter Service Supervisor(s)	Leitrim County Council	
Health and Safety Officer	Leitrim County Council	Carrick On Shannon
Department Of Transport	Department of Transport	
Winter Maintenance Manager	TII	
Director of Service for Transportation	Sligo, Roscommon, Longford, Cavan and Donegal Co. Cos.	
Winter Maintenance Manager, Western Division	Roads Service NI	County Hall, Drumragh Avenue Omagh, Co. Tyrone BT 79 7AF
Chief Superintendent	Sligo – Leitrim Garda District	Sligo Garda Station.
Fire Service	Chief Fire Officer, Leitrim	
Ambulance Service	HSE	
Head of Forecasting	Met Éireann	Glasnevin Hill, Dublin 9

Purpose and Scope

The purpose of this document is to identify the processes, procedures and key personnel employed by Leitrim County Council, to deliver the winter service for County Leitrim. This plan may be amended as necessary during the winter season. The winter season runs from 14th October 2019 to the 30th April 2020. This plan has been prepared in consultation with the Draft Winter Service Manual published in 2010 by the National Roads Authority (NRA) and the City & County Managers Association (CCMA).

Policy

There are approximately 2,500 km of public roads in county Leitrim. For practical and financial reasons only a certain portion of the road networks can be included in the Winter Service Plan. It is therefore necessary to prioritise important and strategic routes in order to use available resources to the greatest benefit.

The following is Leitrim County Councils policy with regard to the winter service, including the description of and level of service on route Priorities 1, 2 & 3, and the treatment and mobilisation times.

Route Designation	Description	Level of Service	Routes in Co. Leitrim
Priority 1	Those routes which are essential to be kept serviceable in all weather conditions, as far as reasonably practicable	To be treated during all weather events	N4, N15, N16 (from Sligo Co. Bdry to Fermanagh Co. Bdry)
Priority 2	Those routes which are desirable to be kept serviceable in normal weather conditions, as far as reasonably practicable	To be treated as part of the normal winter service but may have interruptions to treatment in certain severe weather events	R280,(incl. section in Co. Roscommon) R371, LP 1601-1, R299, LP 3408, R202, R199, R205, R201, R203, R207, R208, R200, R209 Part (Letterfine to R280) R210 Part (Letterfine to Drumcong) R289 (R280 to Dromahaire) R287 (Dromahaire to R280) R286 R287 (To be carried out by Sligo Co Co) R281 (Glenfarne to Rossinver) R282 (Rossinver to Manorhamilton) R286/R278 (Shanvaus Cross to Sligo Co Co Boundary)
Priority 3	Those routes that could be kept serviceable once Priority 1 and 2 routes have been treated, if resources allow.	Not treated as part of the normal winter service but may receive intermittent treatment during certain severe weather events	All other Regional Roads and Priority County Roads.

Treatment Route	Priority 1	Priority 2	Priority 3
Mobilisation Time	1 hr	1 hr	When possible
Treatment Time	3 hr	4 hrs	When possible

Footpaths

Leitrim County Council will, during severe weather, clear snow/ice from footpaths at strategic locations in the towns and villages. Property owners are encouraged to clear snow from the footpaths outside their property. We will advise the public of the best equipment to use and the safest way to use this equipment in clearing snow from footpaths.

Overall Map of the Service Plan Area

See Maps at Appendix A

Weather Monitoring and the Treatment Decision process

Leitrim County Council appoints Duty Engineers to review the weather conditions and make a decision on the treatment to be carried out, each day during the winter period. The weather predictions are made available to Leitrim County Council through the TII web based weather application provided by Met Eireann and Vaisala. The Duty Engineer will monitor the weather conditions as necessary and alter any decisions made as required.

Winter Service Duty Engineers and Winter Service Supervisors must attend to their normal Council duties during normal Council working hours and be competent to do so. Accordingly, Leitrim County Council acknowledges that there is a limit to the extent of overnight monitoring that can be expected of a Duty Engineer. In particular, the Council would expect that treatment decisions would normally be communicated to the Winter Service Supervisor before 22:00 hours. If the treatment decision is deferred to a later time, the Duty Engineer should advise the Winter Service Supervisor of the deferred treatment decision deadline at or prior to 22:00 hours.

Details of the rosters for the duty engineers in Appendix B.

Contact Details

Duty Forecaster Met Eireann	(01) 8065550
Technical Support for Bureau Weather Service	(01) 8064219 or (01) 8064255
Garda Point of Contact	(071)9142031 or (071)9157000
Winter Service Manager Donegal County Council	(074) 9153900
Winter Service Manager Sligo County Council	(071) 9111111
Winter Service Manager Roscommon County Council	(090) 6637100
Winter Service Manager Longford County Council	(043) 3343300
Winter Service Manager Cavan County Council	(049) 4378300
Winter Service Manager Western Division, Road Service NI	00 44 28 82254111 or 00 44 28 82241999
Commisky Plant Hire	087 9683006
Ambulance Service	999 or 112
Fire Service	999 or 112

Supplementary Resources

Details of resources available to supplement the winter service are included in Appendix C

Decision Matrix

The following table is our Decision Matrix for treatment of roads in severe weather conditions.

Road Surface Temperature	Precipitation	Predicted Road Conditions		
		Wet	Wet Patches	Dry
May fall below 1°C	No rain No hoar frost No fog	Salt before frost	Salt before frost (see note a)	No action likely, monitor weather (see note a)
Expected to fall below 1°C	No rain No hoar frost No fog			
	Expected hoar frost Expected fog	Salt before frost (see note b)		
	Expected rain before freezing	Salt after rain stops (see note c)		
	Expected rain during freezing	Salt before frost, as required during rain and after rain stops (see note d)		
	Possible rain Possible hoar frost Possible fog	Salt before frost	Monitor weather conditions	
Expected Snow		Salt before snow fall		
<p>The decision to undertake precautionary treatments should be, if appropriate, adjusted to take account of residual salt or surface moisture.</p> <p>All decisions should be evidence based, recorded and require careful monitoring and review.</p>				

Notes:

- (a) Particular attention should be given to the possibility of water running across carriageways and other running surfaces e.g. surface water off adjacent fields after heavy rains, washing off salt previously deposited. Such locations should be closely monitored and may require treating in the evening and morning and possible other occasions. Ideally the source of the run-off should be diverted from the roadway.
- (b) When a weather warning contains reference to expected hoar frost, considerable deposits of frost can occur. Hoar frost usually occurs in the early morning and is difficult to cater for because of the probability that any salt deposited on a dry road too soon before its onset, may be dispersed before it can become effective. Careful monitoring is required under this forecast condition which should ideally be treated just as the hoar frost is forming. Such action is usually not practicable and salt may have to be deposited on a dry road prior to but as close as possible to the expected time of the condition. Hoar frost may also be forecast at other times of the day, in which case the timing of salting operations should be adjusted accordingly.
- (c) If under these conditions, rain has not ceased by early morning, crews should be called out and action initiated as rain ceases.
- (d) Under these circumstances rain will freeze on contact with running surfaces and full precautionary treatment should be provided even on dry roads. This is a most serious condition and should be monitored closely and carefully throughout the danger period.

Treatment Matrix

The following table is our Treatment Matrix for the various weather conditions.

Treatment Matrix Guide

Weather Conditions Road Surface Conditions Road Surface Temperature (RST)	Treatment Air Temperature	Salt Spread Rate (gm/m ²)	Ploughing
Frost or forecast frost RST at or above -2°C		10/15	No
Frost or forecast frost RST below -2°C and above -5°C		20	No
Frost or forecast frost RST below -5°C and above -10°C and dry or damp road conditions		20	No
Frost or forecast frost RST below -5°C and above -10°C and wet road conditions (existing or anticipated)		2 runs X 20	No
Light snow forecast (<10mm)		20	No
Forecast for Medium/heavy snow or a freezing rain forecast		2 runs X 20	No
Ice formed	Above -5°C	20	Not possible
Ice formed	At or below -5°C	2 runs X 20	Not possible
Snow covering exceeding 30mm		20 to supplement ploughing, up to 40 if temperatures are falling	Required
Snow accumulations due to prolonged falls		20 to 40 to supplement ploughing	Required
Hard packed snow/ice	Above -8°C	Successive treatments at 20 to 40 (repeat as needed)	Not possible
Hard packed snow/ice	At or below -8°C	Successive treatments at 20 to 40, supplemented by abrasives (repeat as needed)	Not possible
Sustained low temperatures	Below -10°C	Refer to Roads Section	

Notes:

- (a) Rate of spread for precautionary treatments may be adjusted to take account of variations occurring along the route such as residual salt, surface moisture (in the air or on the road surface) and traffic density.
- (b) All decisions should be forecast based, recorded and require careful monitoring and review.
- (c) Ice refers to all ice on the road surface, including black ice.

- (d) For salt stored outside it may be necessary to increase spread rate for precautionary treatment salting from 10gm/m² to 15gm/m². Duty engineer to decide which rate to use.

Target Spread Rates by Location

Location	Salt Spread Rate
Carriageways	As described in the Treatment Matrix Guide
Hard shoulder or carriageway marginal strips	50% of selected treatment
Porous Surfacing	<u>Plus</u> 25% of selected treatment
Footways, cycle tracks and pedestrian areas	25 gm/m ²

Plant, Vehicles and Equipment

Leitrim County Council operates 5 number demountable mounted salt spreaders, and 6 number snowploughs, to deliver the winter service. We also have access to other hire equipment if the situation requires.

Description	Depot Location	Capacity	Date Calibrated	Date Serviced	Date of next Calibration	Date of next Service
Plant No 39 Demountable Salt Spreader	Faulties	9 m ³	Sept 2019	Sept 2019	Sept 2020	Sept 2020
Plant No. 24 - Demountable salt spreader	Faulties	6 m ³	Sept 2019	Sept 2019	Sept 2019	Sept 2019
Plant No. 25 - Demountable salt spreader	Manorhamilton	6 m ³	Oct 2019	Oct 2019	Oct 2020	Sept 2020
Plant No. 29 - Demountable salt spreader	Drumkeeran	6 m ³	Oct 2019	Oct 2019	Oct 2020	Sept 2020
Plant No. 30 - Demountable salt spreader	Manorhamilton	6 m ³	Oct 2019	Oct 2019	Oct 2020	Sept 2020
Demountable Mini Spreader	Mohill	2 m ³	Sept 2012	Sept 2012	Nov 2019	Nov 2019

Snowploughs & Loading Shovels	Depot Location	Fitted to	Date Serviced	Date of next Service
Snowplough	Faulties	141OY1112	Sept 2019	
Plant No 97A – Snowplough	Faulties	141OY1111	Sept 2019	Sept 2020
Plant No 98 – Snowplough	Manorhamilton	11LM435 Plant 36	Sept 2018	Oct 2019
Plant No 99 – Snowplough	Faulties	03LM822 Plant 31	Sept 2018	Oct 2019
Plant No 97D – Snowplough	Manorhamilton	06LM1334 Plant 33	Sept 2018	Oct 2019
Plant No 32A - Snowplough	Dromahaire	05LM1053 Plant 32	Sept 2018	Oct 2019
Plant No 12 Landini Tractor Loading Shovel	Faulties	06RN3615	Sept 2018	Oct 2019
Plant No 13 Landini Tractor Loading Shovel	Dromahaire	04RN1876	Sept 2018	Oct 2019
Plant No 40 JCB Telehandler Loading shovel	Faulties	10LM3588	-	Jan 20

Note: Duty Engineers will advise when demountable gritters are to be mounted before weekends and holiday periods.

Details of Depots

Map Ref.	Salt Depots	Routes Serviced	Indoor or Outdoor	Max Capacity	Minimum stock levels at:		
					1 st Oct	15 th Dec	1 st Mar
	Faulties	N4, R202, R280, R207, R208.	Indoor	2000 Tonnes	1000 Tonnes		
	Ballinamore	R199, R201, R202, R205, R208, R209, R210.	Indoor	300 Tonnes	100 Tonnes		
	Manorhamilton	N15 N16	Indoor	300 Tonnes	250 Tonnes		

		R280					
	Drumkeeran	R280, R289, R287, R207, R200	Indoor	300 Tonnes	250 Tonnes		
	Mohill	Local Roads	Outdoor	50 Tonnes	0 Tonnes		
TOTALS				2950 Tonnes	1,600 Tonnes		

Materials and Spares

The Area Engineers will be responsible for re-ordering de-icing materials. The new procurement in operation by the TII will be used for procuring salt this winter.

There are small quantities of fuel stored at each Depot for emergencies, but the majority of the fuel will be acquired at Retail outlets.

Spare parts for winter service machinery are stored in the machinery yard. The Machinery Yard supervisor will be responsible for reordering stock.

Community Involvement

During severe weather conditions Leitrim County Council will make available grit at 36 locations throughout the county to enable people in the community to use it to treat local roads, hills etc that we are never going to be able to get to due to the demand on our resources. See Appendix D for map and a full list of the locations of the drop points. This grit is available for any person to use. They will not be working for Leitrim County Council when spreading this grit.

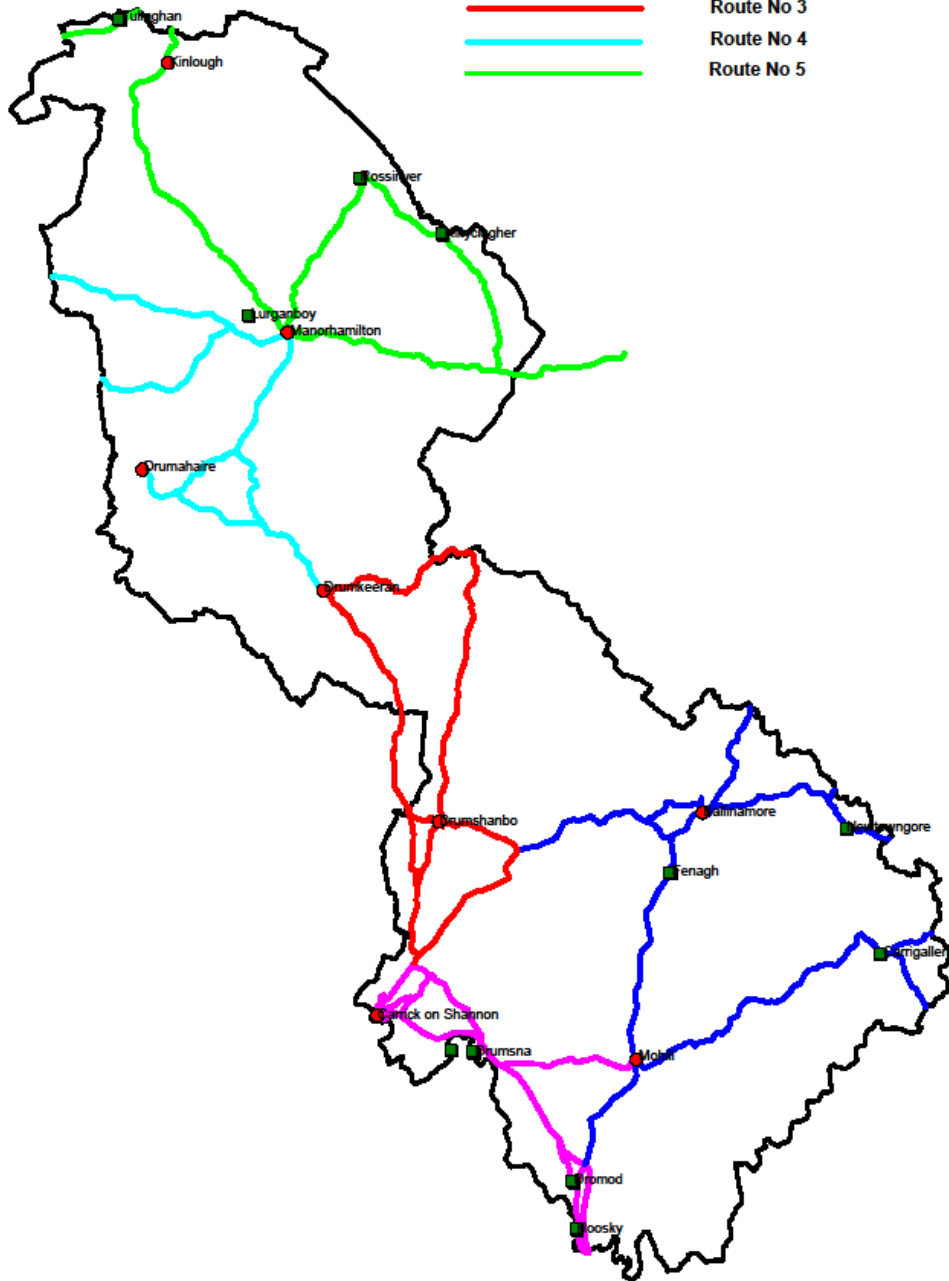
Leitrim County Council will introduce a scheme where residents associations and business can purchase from the council a salt bin and salt for their housing estates or business premises. They will be charged a nominal fee. Depending on our resources at the time the bin will be refilled by us or salt made available to the residents at our depot, for a nominal fee.

APPENDIX A

LEITRIM COUNTY COUNCIL

WINTER MAINTENANCE ROUTES

- Route No 1
- Route No 2
- Route No 3
- Route No 4
- Route No 5



APPENDIX B

APPENDIX C

APPENDIX D

Grit Locations – County Leitrim

Ball Room of Romance Glenfarne N16
Rossinver Football Pitch
Scollans Depot, Largydonnell
NCF Laughta Road, Kinlough
Askill School
Lough Doon, Fivemilebourne
St Michael Church, Barrs West
Kiltyclogher - Old Landfill Site
Coraleehan Church
Cromlin Cross Roads
Greaghglass, Pol an Easa Amenity
Leitrim County Council Depot, Ballinamore Depot
Drumeela church.
Corawallen P.O.
Corriga Reservoir
Glan Cross Roads, Beagh More
Rassuan Church
Nailers Cross Roads, Feraglass North
Cornageeha Church
Greagh Cross Roads, Lissagarvan
Gubbs Crossroads, Corduff
District Hospital, Summerhill, Carrick on Shannon
Kilboderry, Carrick on Shannon
Kiltoghert Community Centre
Leitrim County Council Depot, Faulties
Mohill Church
Bornacoola Church
Eslin Church
Gortlettragh Church
Fearglass Church
Annaduff Church
Crossroads Toomans

Aughacashel

Leitrim County Council Depot Kildoon

Drumkeeran Old Landfill Site

Ballinaglera Village

Aughavas

Carrigallen Mart