

Winter Maintenance



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An introduction

Agenda Item 9

Overview

- Statutory duties
- Gritters & Salt Stock
- Gritting Routes
- How & when to salt
- Process
- National Guidelines

Statutory duties

- *‘A Highway Authority is under a duty to ensure, so far as is reasonably practicable, that safe passage along a highway is not endangered by snow or ice’* Section 41(1A) to the Highways Act 1980
- *‘If an obstruction arises in a highway from accumulation of snow ... the highway authority shall remove the obstruction.’* Section 150(1) to the Highways Act 1980

Key Responsibilities

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*Ensuring
safe passage*

Precautionary

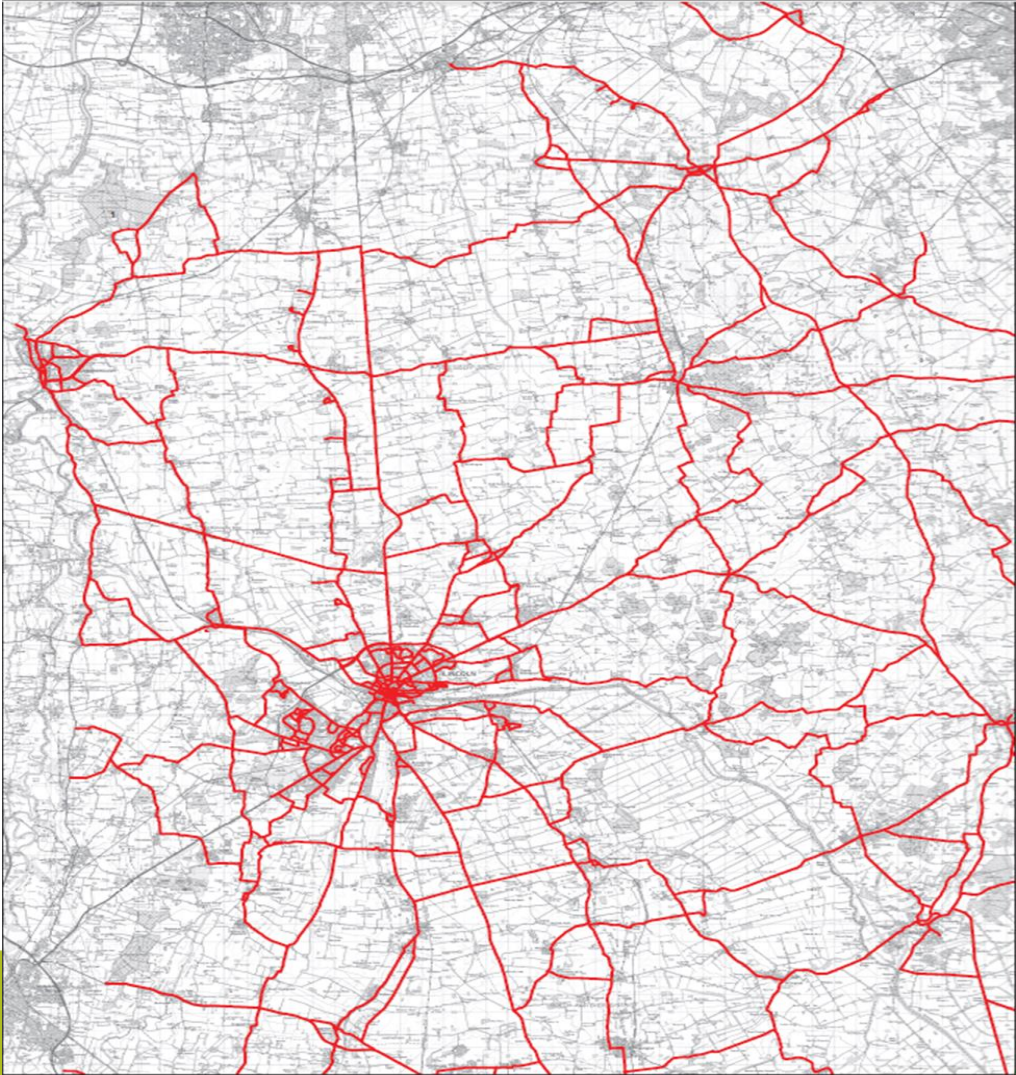
*Clearing
Snow/ice*

Severe Weather

Precautionary Salting Network

- 3,008km (1869 miles – 30 %) priority routes:
 - Local Strategic Road Network
 - Links to all the County's main villages
 - At least one road within 500m of all schools
 - Links to train and bus stations, NHS hospitals,...
 - Additional roads depending on risk factors

Precautionary Salting Network



2017/18
Precautionary Salting Routes
Plan 1 of 4

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What do we use?

GRITTERS



SALT



What do we use?

GRITTERS

- 43 front-line Gritters
- 4 on standby
- 47 snow ploughs
- 8 LCC depots

SALT

- 35,000 tonnes at start of season
- 15,000 tonnes minimum
- Salt barns

Pre-Wetting Salt

- Salt sprayed with brine solution
- Moisture content increases
 - Salt spreads more accurately.
 - Salt sticks better to the surface.
- 7 brine tanks in depots

When to Salt

- Based on:
 - Weather Forecasting service
 - Route-Based Forecasting
- $< 1\text{ }^{\circ}\text{C}$: Evaluate gritting options
- $< -7\text{ }^{\circ}\text{C}$: gritting becomes much less effective
- $< -15\text{ }^{\circ}\text{C}$: gritting no longer works

Salting the Lincolnshire Roads

Highways team to receive forecast from Weather forecast provider



Route-based approach



Highways Team Informs Term Contractor to prepare



Term contractor departs depot within 1 hour



All roads on the Precautionary Salting Network salted within 3 hours

Well-managed Highways Infrastructure

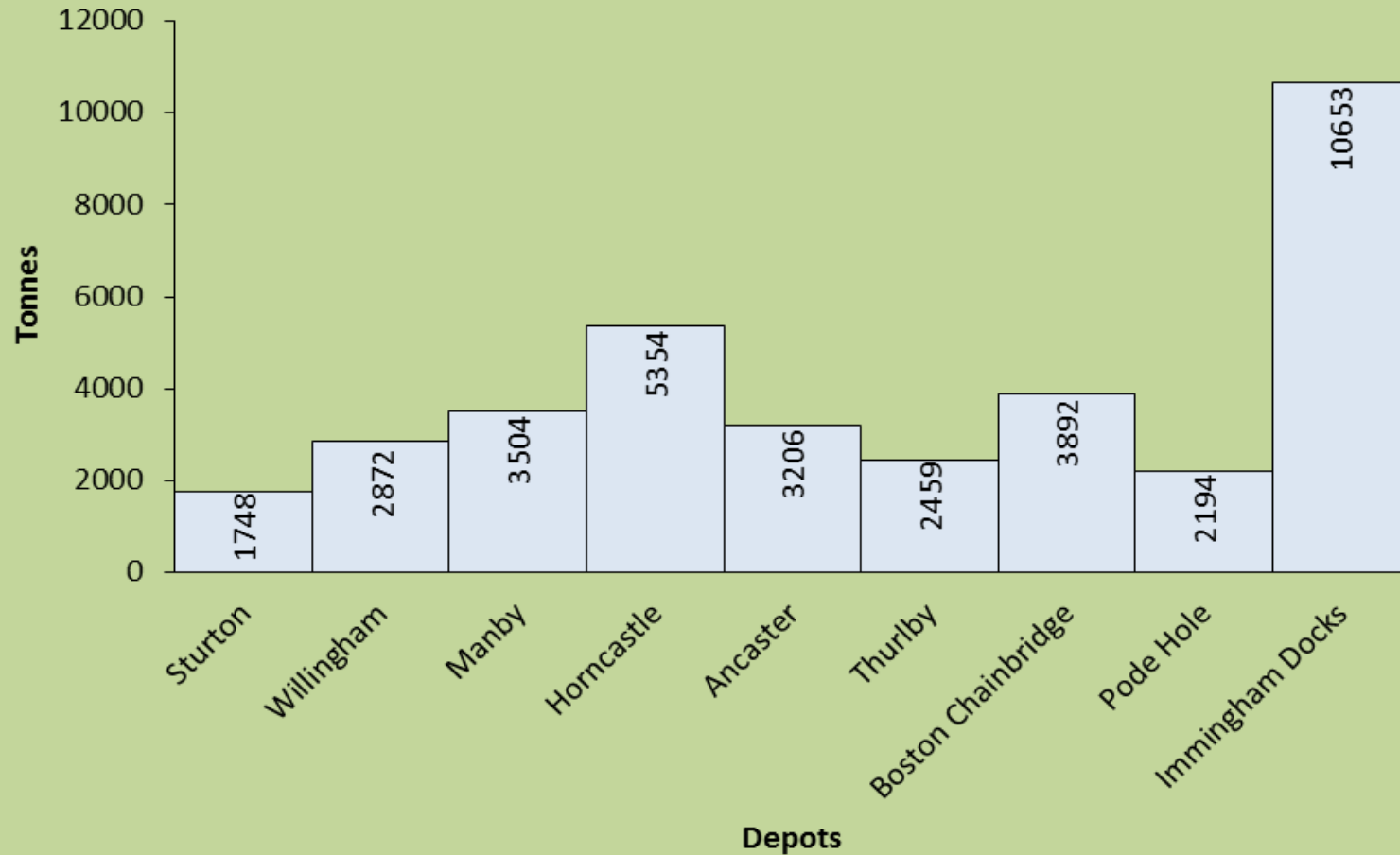
- National Guidance –October 2016
- Highways Asset Management Plan (HAMP)

Winter Maintenance Plan

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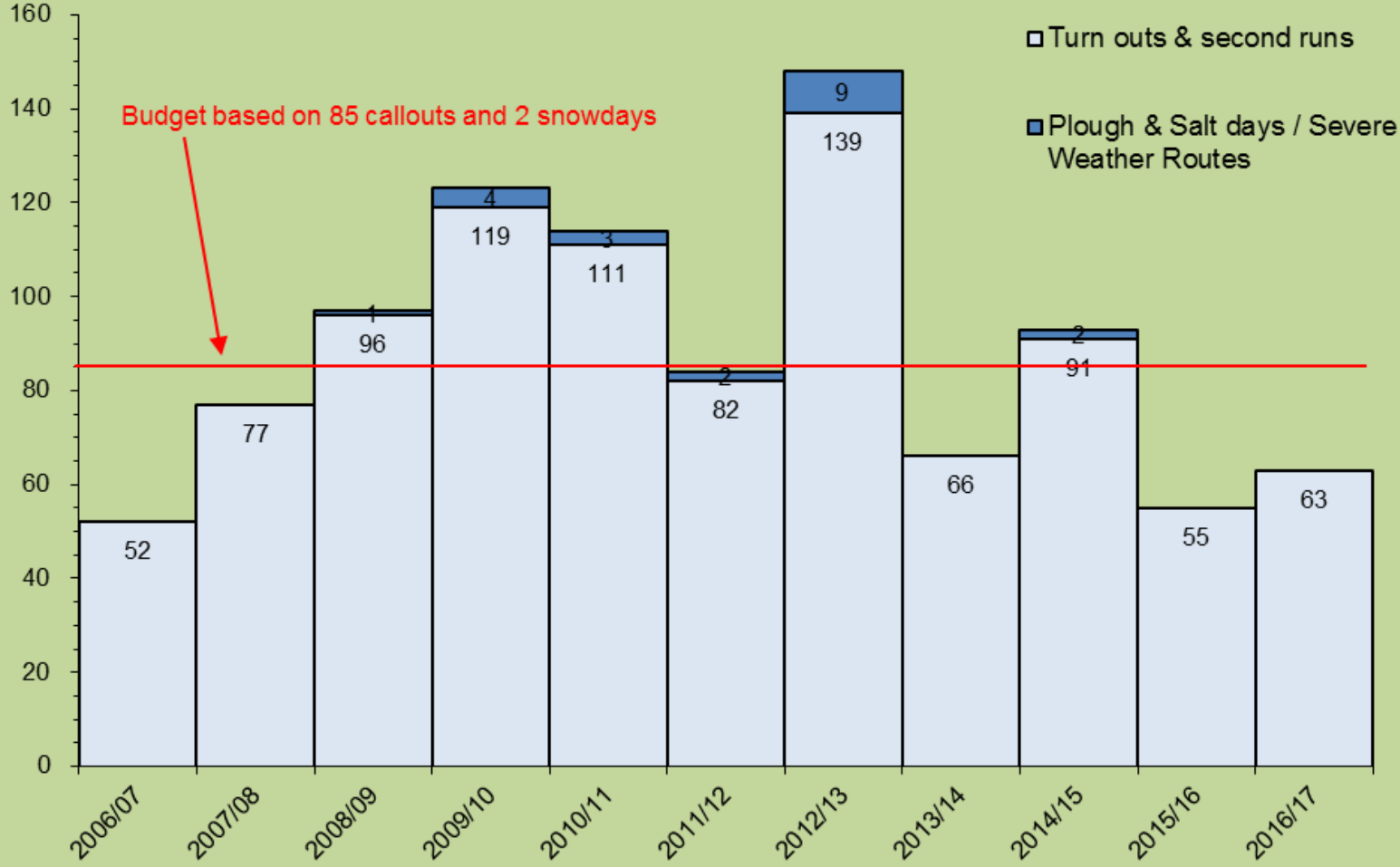
Starting Salt Figures

2017/2018 Starting Salt Figures for Depots



Callouts

LINCOLNSHIRE COUNTY COUNCIL PRECAUTIONARY SALTING CALLOUTS
(County average)



Salt Usage

