

# Sheffield City Highways Tree Survey 2006-2007



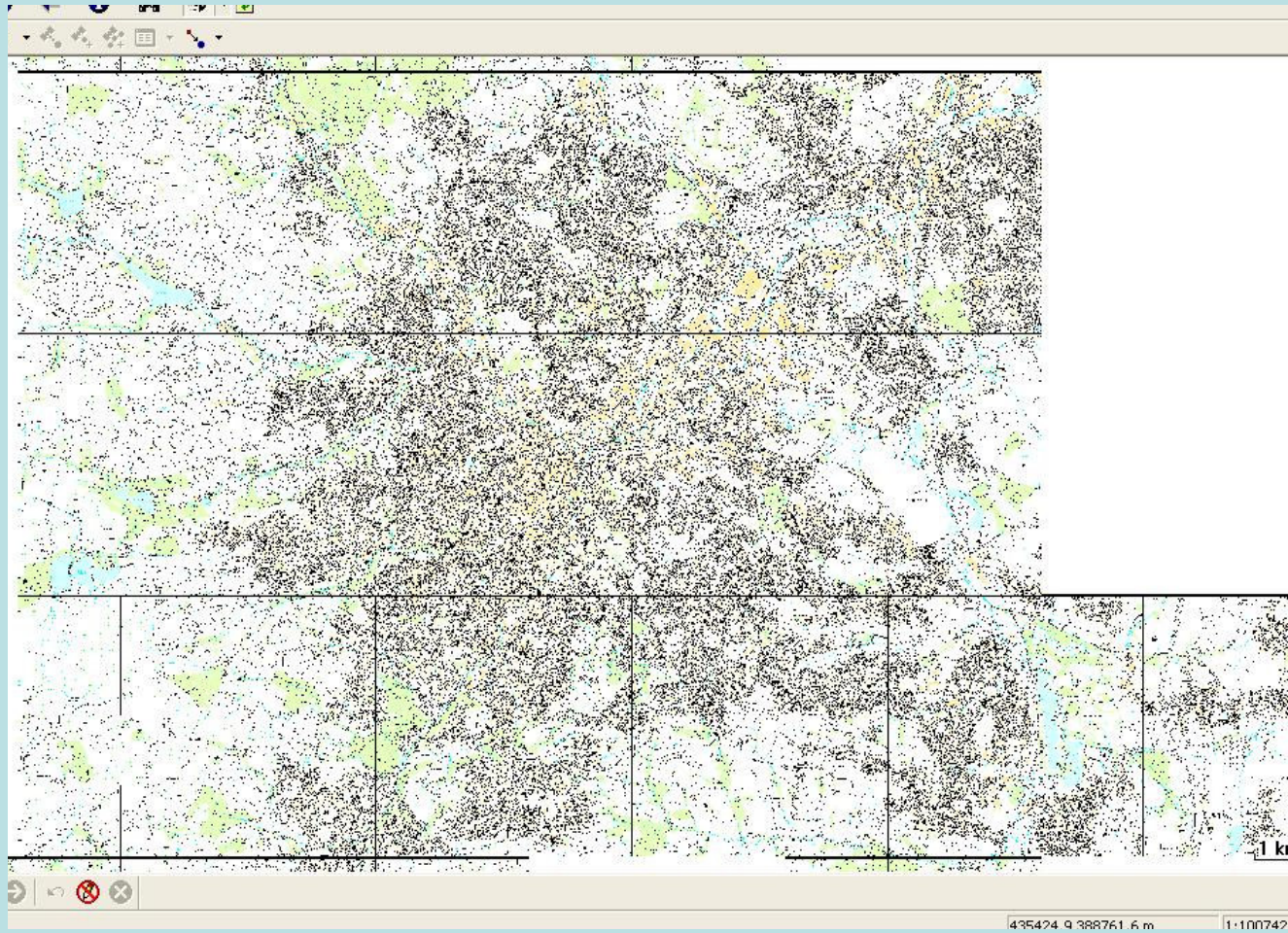
# Survey Objectives



- Inventory
- Assess
- Recommend

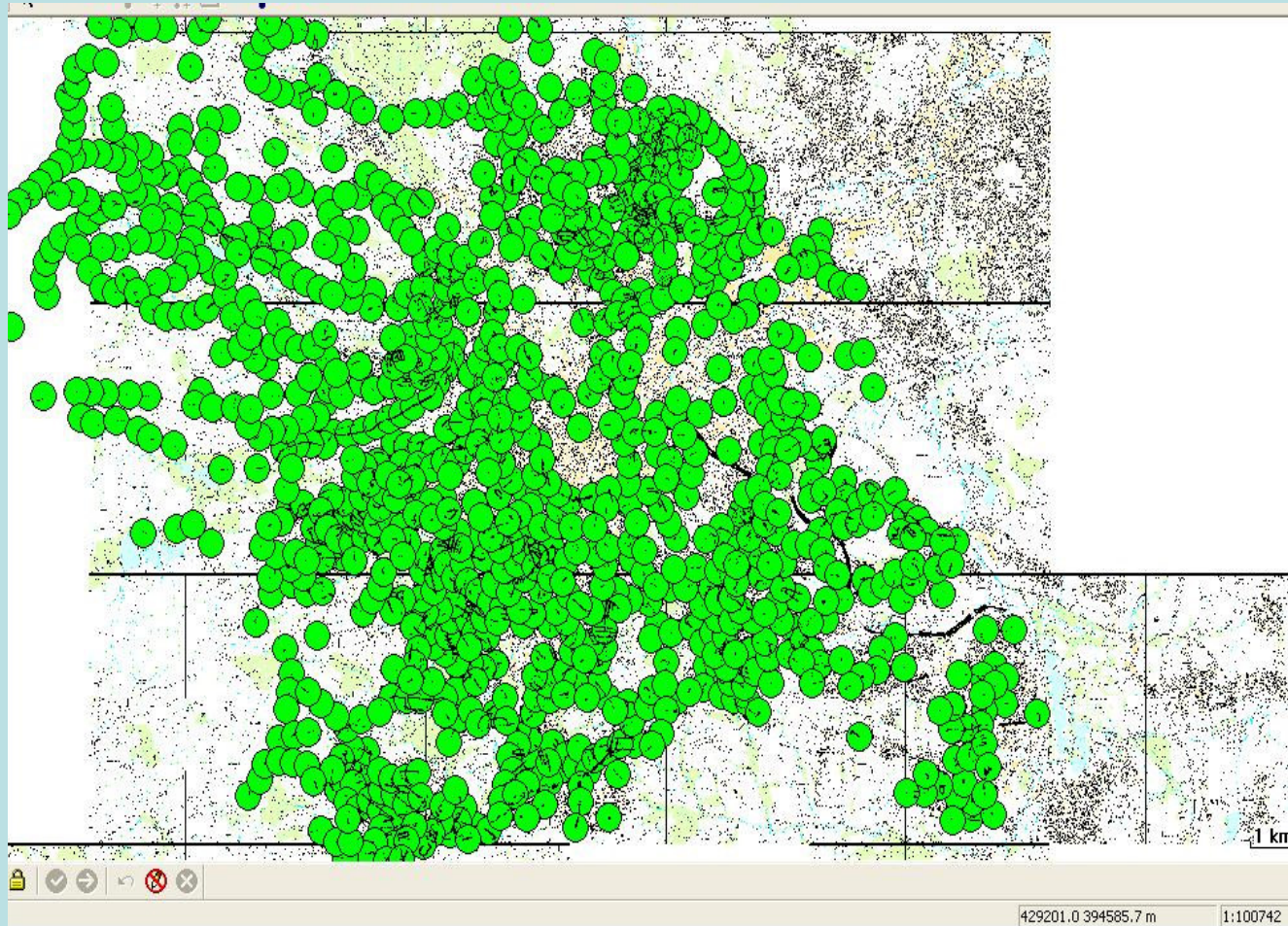


# From This ...

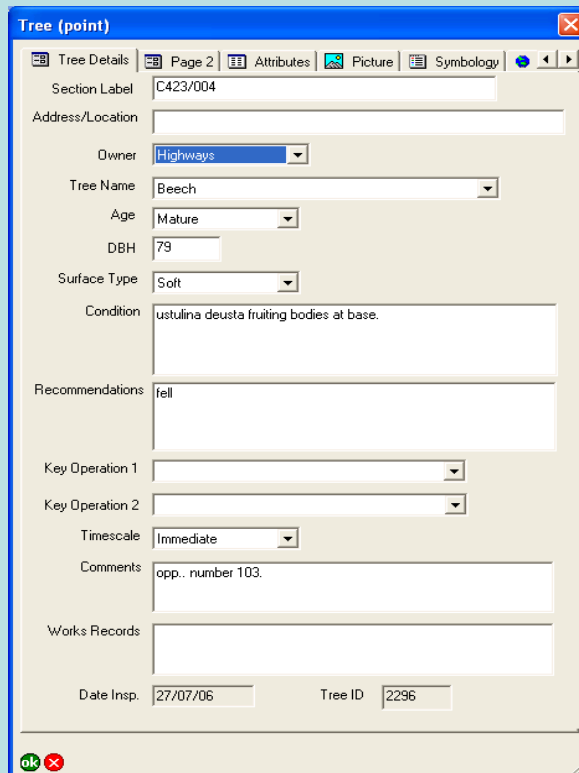




# To This



# Data Collection



The screenshot shows a software window titled "Tree (point)" with a menu bar containing "Tree Details", "Page 2", "Attributes", "Picture", and "Symbology". The form fields are as follows:

- Section Label: C423/004
- Address/Location: (empty)
- Owner: Highways (dropdown)
- Tree Name: Beech (dropdown)
- Age: Mature (dropdown)
- DBH: 79
- Surface Type: Soft (dropdown)
- Condition: ustulina deusta fruiting bodies at base.
- Recommendations: fell
- Key Operation 1: (empty dropdown)
- Key Operation 2: (empty dropdown)
- Timescale: Immediate (dropdown)
- Comments: opp.. number 103.
- Works Records: (empty)
- Date Insp.: 27/07/06
- Tree ID: 2296

- Tree Species
- Age-class
- Size – DBH
- Surface
- Condition
- Recommendations
- Priority of works

# Survey Findings

- 35,057 Trees
- 25,877 Mature & Over-mature Trees
- 7,487 Semi-mature Trees
- 1,693 Young Trees
- 28,258 In Areas of Soft-standing (verges etc)

# Survey Findings

- Approximately 10,000 trees needed some form of remedial treatment
- 25,000 trees requiring no work at present
- Of those requiring work :
  - » 25 - immediate priority
  - » 1200 - within 1 month priority
  - » 3000 – within 3 months priority
  - » 4000 – within 9 months
  - » 2000 – if budget allows

# Survey Findings

## Works Required:

- 1000 Felled
- 1500 To deadwood or crown-clean
- 2900 To crown-lift
- 550 To crown-reduce
- 241 To crown-reduce or consider removal



# Survey Findings

## Works Required:

- 296 Required aerial inspection
- 458 Required further inspection including decay detection

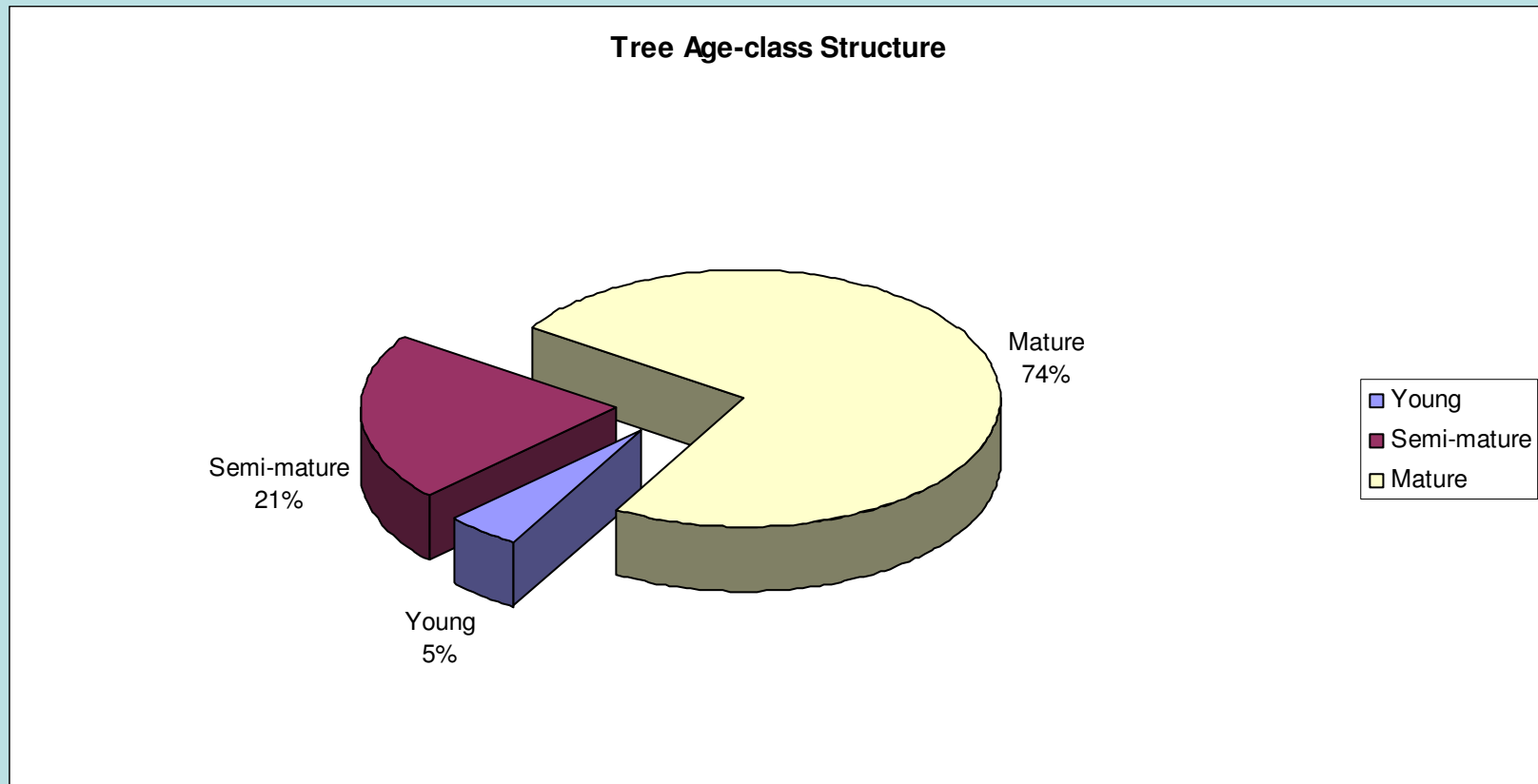


# Survey Findings

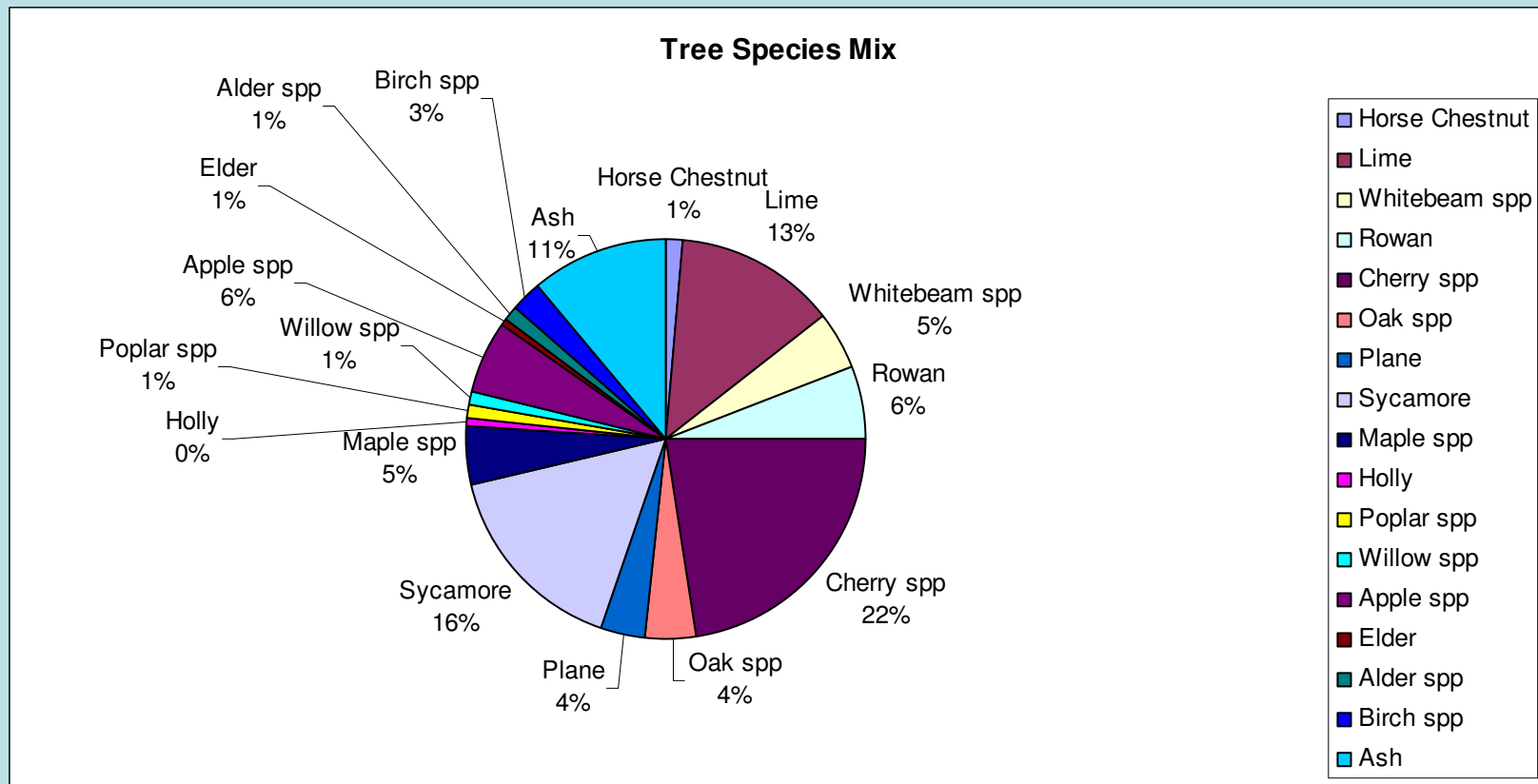
Other recommendations included:

- Epicormic removal
  - Ivy removal
- Minor tree pruning works
- Tree-tie and stake removal

# Age-class Spread

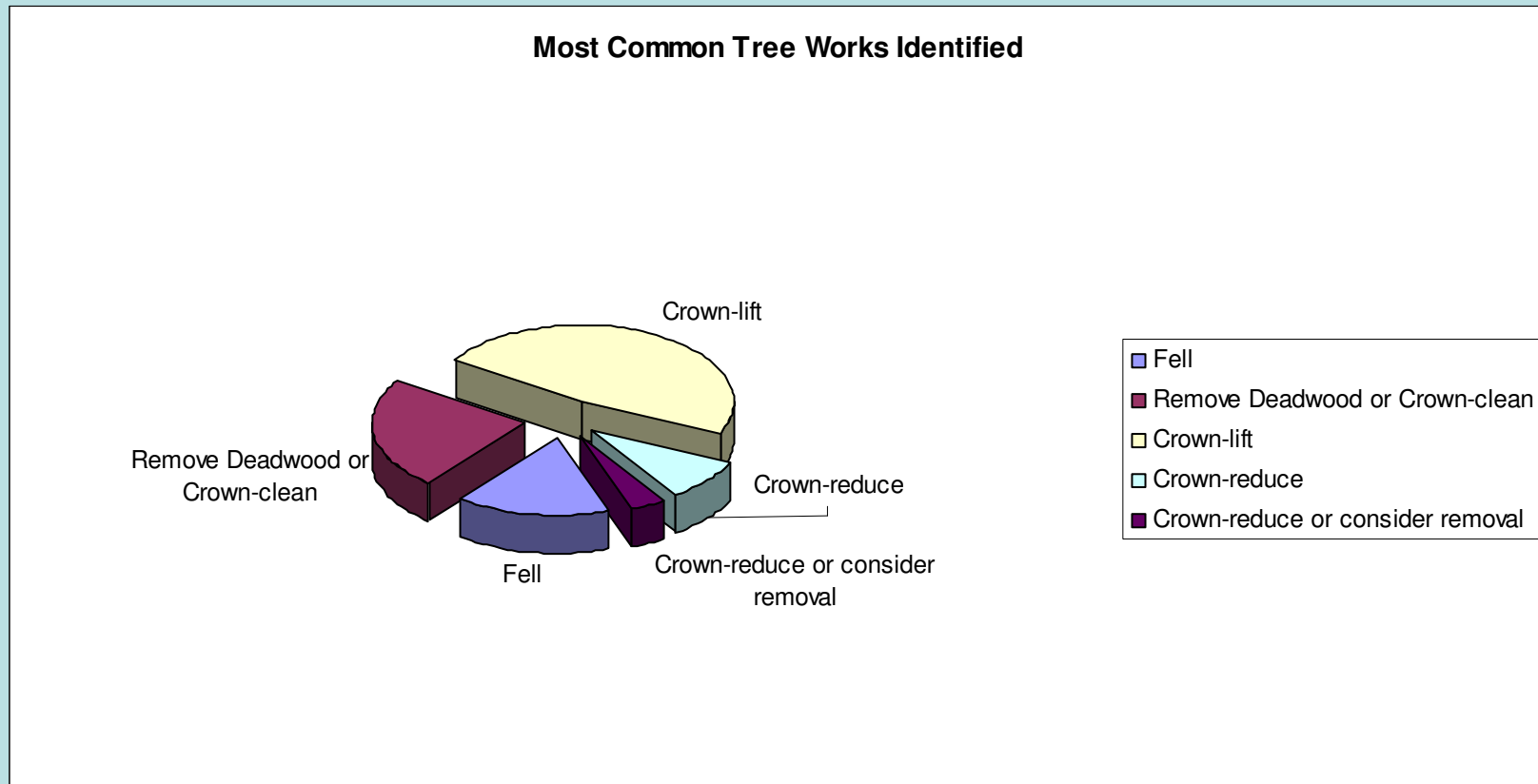


# Species Mix

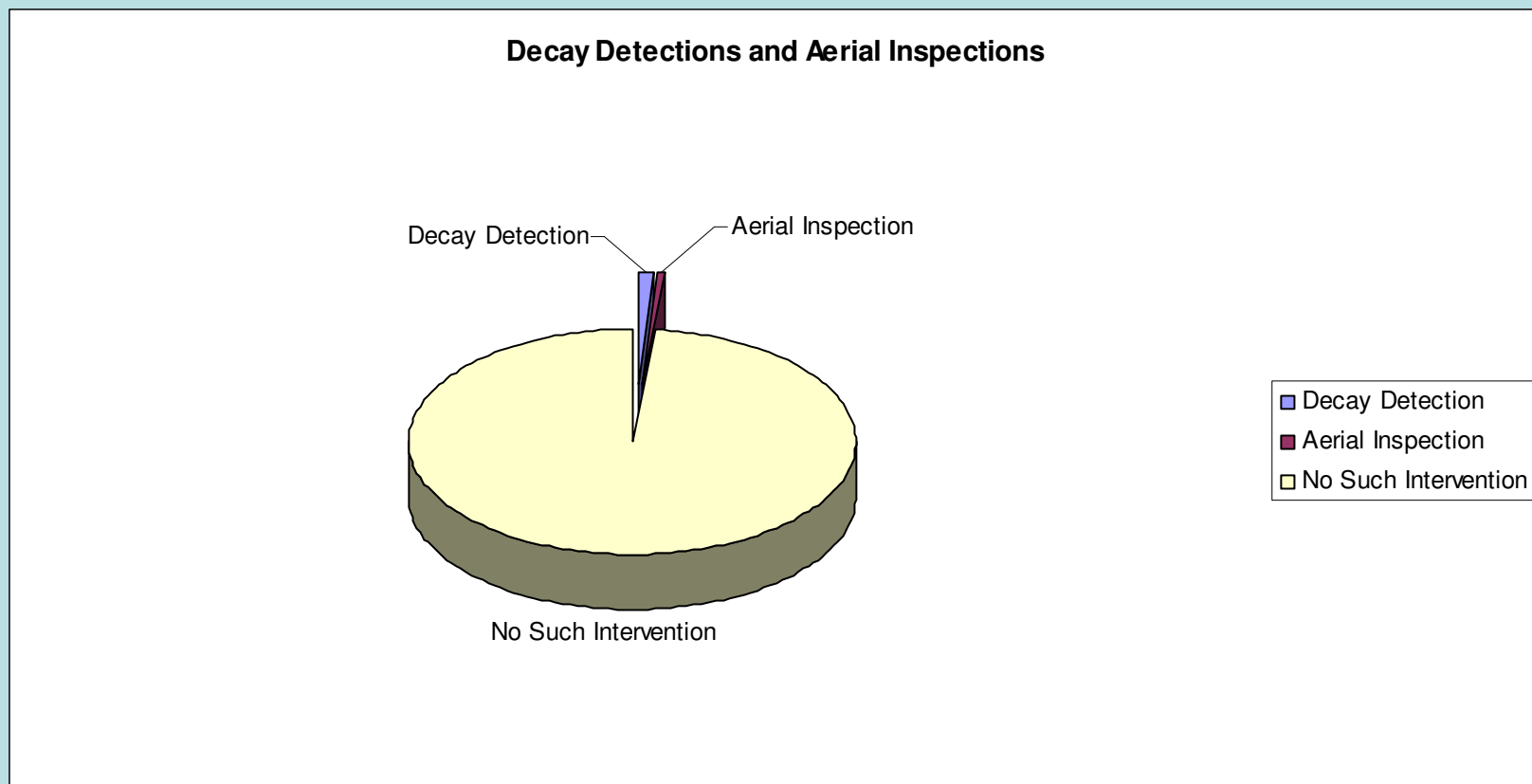




# Tree Works Spread

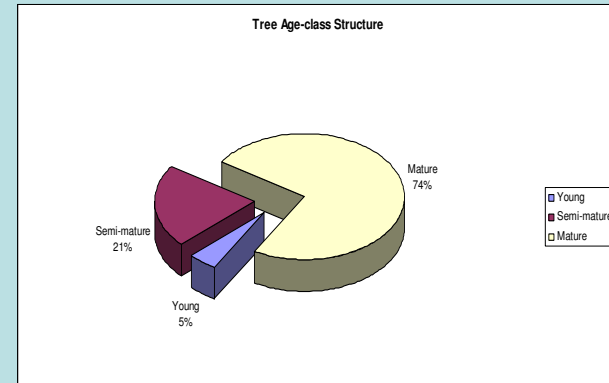


# Decay Detection & Aerial Inspection

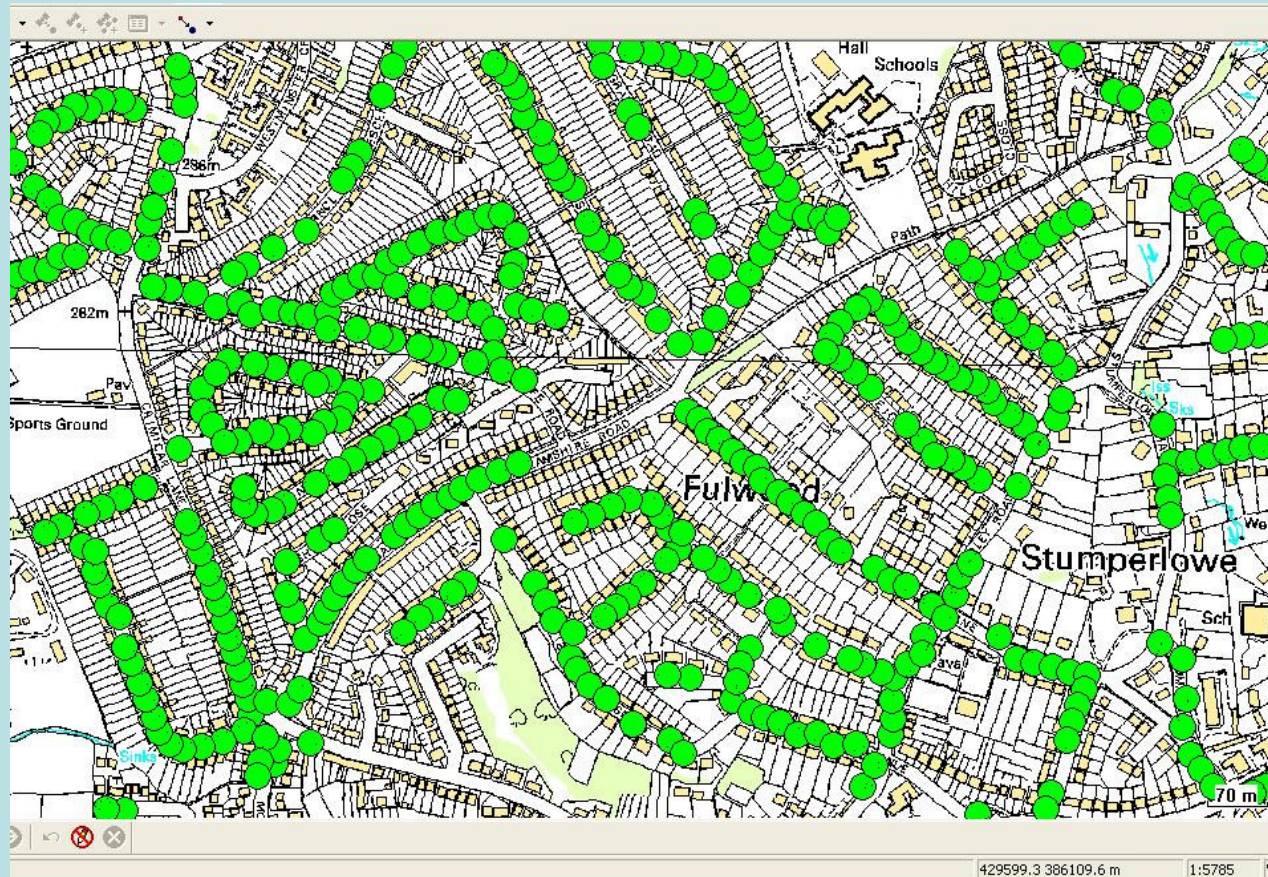


# Implications

- Mature Stock
- Even Aged
- Few Young Trees
- Decline will accelerate
- Incidence of Felling will increase
- Dramatic change in Sheffield streetscapes



# Where to now?





# Replanting & Replacing

- Increased new planting

  - Planting on previously unused verges

  - Planting on verges left empty after tree removal

  - Mixed genus and species – right tree, right place

  - Tree choice to suit all factors

  - New trees on highways in new developments

- Replacement NOT removal

  - Lose the concept of removal – always replacement

  - Costs should always include a standard rate for the replacement tree, planting and aftercare.

  - If the value and costs of installing a new tree is known this information can be used to correctly gauge the value and cost implications of a tree in the final stage of life

# The value of replacement?

- 241 trees were highlighted for works so extensive that consideration should be given to their future replacement







# Future Survey

- 3 year rolling survey
- Health & safety requirement
- Monitor problem areas
- Analyse population changes
- Aid management direction



# Tree Strategy

- A formal Document
- Ratified by Council
- Detailing policies
- Detailing best practise
- Detailing Procedures
- Outlining the goals & objectives

# The Urban Forest





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