

LANTw66

Select, mark, and assess volume of standing trees



Overview

This standard is about the selection, marking and assessing the volume of standing trees in preparation for harvesting. You must demonstrate selection, the marking of sample plots, and marking trees ready for extraction. Marking of trees can be to indicate removal, selection, or those that are to remain in the longer term. Selection and marking of trees must include taking into consideration extraction routes

This standard includes providing information for calculations of sustainable yields, but excludes the calculations

This standard is for those who assess the volume of **standing** timber

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Performance criteria

You must be able to:

- P1 identify area to be assessed and marked
- P2 establish **basal area** of trees as an aid to selection
- P3 select, mark, measure and record trees in line with the given specification and appropriate **tariff**
- P4 complete appropriate tariffing field checks to ensure elimination of error
- P5 check thinning intensity using sample plots
- P6 maintain the health and safety of yourself and others at all times in accordance with current legislation

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Knowledge and understanding

You need to know and understand:

- K1 the significance of: thinning intensity, thinning yield, sample plot, rack spacing, rack width, product, brash mat, wind hazard classification, working methods, silvicultural systems, species of tree and extraction method
- K2 the **tariff procedure**
- K3 how to measure thinning yield, thinning intensity and basal area
- K4 when it is appropriate to fell volume sample trees
- K5 the criteria for deciding between selective and systematic methods of selection
- K6 the significance of thinning types on selection and marking covering: low, intermediate, crown, line
- K7 the appropriate use of marking tools and equipment when selecting and marking trees
- K8 how to use full and abbreviated tariffing systems
- K9 how to identify species of standing trees
- K10 the implications of terrain, season, weather and species for this element
- K11 product specifications, including quality, minimum and maximum lengths, and minimum and maximum diameters e.g. fencing posts, telegraph poles
- K12 available products and markets
- K13 your responsibilities under current environmental, health and safety legislation and codes of practice
- K14 appropriate records to be kept and their significance

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Glossary

Basal area of an individual tree is the cross-sectional area of the tree at its breast height point

Tariff procedure is the three basic steps in estimating the volume of a stand of trees

Tariffs are a series of pre-constructed 'loal' volume tables

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Developed by Lantra

Version number 1

Date approved December 2011

Indicative review date January 2016

Validity Current

Status Original

Originating organisation Lantra

Original URN O29NTW9

Relevant occupations Arboriculture and forestry; Coppicing;

Suite Treework

Key words volume; standing trees; mark; assess
