
Overview

This standard is about forecasting the production of forest and woodland products and producing production plans. This will include assessing the likely yields of timber and other products and presenting these in short-term, medium-term and long-term production plans.

You will need to be able to take appropriate measurements and apply forest and woodland mensuration techniques, yield class tables and yield models to wood and non-wood products.

Your work must conform to all relevant legislation and codes of practice when carrying out this work.

Performance criteria

You must be able to:

1. assess the risks associated with the site and the proposed work
2. assess the sustainable yield based on the woodland or forest inventory
3. set the thinning cycle and intensity to achieve a sustainable yield in both a practical silvicultural and cost effective way
4. forecast the production of forest and woodland products consistent with the available data
5. produce production plans for forest and woodland products, in accordance with the policies of your organisation
6. maintain the health and safety of yourself and others at all times, in accordance with relevant legislation

Forecast production of forest and woodland products and produce production plans

Knowledge and understanding

You need to know and understand:

1. how to identify hazards and assess risks
2. how to interpret risk assessments
3. how to identify forest and woodland tree species
4. how to use forest and woodland mensuration techniques
5. how to assess the risk of windthrow and the tools and techniques that are available for this
6. how to measure standing timber
7. how to assess the silvicultural requirements of the crop
8. how to analyse cost effective ways of achieving a sustainable yield
9. how to produce production plans with realistic forecasts for the production of forest and woodland products
10. how to plan for peaks and troughs in production
11. the effects on crops of under-/over-thinning, thinning and non-thinning, late or early thinning
12. the factors affecting the decision to thin or not to thin
13. the factors affecting rotation length
14. the effects on yields of species mixtures
15. the methods and models of identifying sustainable yields
16. the selection of yield model
17. the environmental and conservation requirements of your organisation and of the relevant legislation
18. your responsibilities under relevant environmental and health and safety legislation

Forecast production of forest and woodland products and produce production plans

Scope/range

Assess the likely yields of:

- timber
- other products

Glossary

Other products could include any of the following: seeds and cones, moss, foliage, harvesting residues

In forest nurseries, the other products may include a range of young trees at different stages of growth, bare root, or in containers etc

Windthrow:

The fall of a tree in a high wind, with the breakage of the outer roots, so that the tree is uprooted. There are three main modes of windthrow.

Forecast production of forest and woodland products and produce production plans

Developed by	Lantra
Version Number	2
Date Approved	February 2017
Indicative Review Date	February 2021
Validity	Current
Status	Original
Originating Organisation	Lantra
Original URN	LANTw69
Relevant Occupations	Arboriculture and forestry; Coppicing
Suite	Treework
Keywords	forest; woodland; forecast; production; timber