

# NFI provisional estimates for woodland within 50 miles of Sandwich

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**Enquiries:** Ben Ditchburn, 0300 067 5064  
NFI@forestry.gsi.gov.uk

**Statisticians:** David Ross – [David.ross@forestry.gsi.gov.uk](mailto:David.ross@forestry.gsi.gov.uk)  
Neil Bennett – [neil.bennett@forestry.gsi.gov.uk](mailto:neil.bennett@forestry.gsi.gov.uk)

**Website:** [www.forestresearch.gov.uk/inventory](http://www.forestresearch.gov.uk/inventory)  
[www.forestresearch.gov.uk/forecast](http://www.forestresearch.gov.uk/forecast)

## Summary

This report provides a detailed picture of stocked area and the standing volume of timber for woodland within a 50 mile radius of Sandwich. These estimates are a subset of those published as part of the 2012 growing stock information presented in the National Forest Inventory (NFI) *50-year forecasts of softwood timber availability* and *50-year forecast of hardwood timber availability*. NFI reports are published at [www.forestresearch.gov.uk](http://www.forestresearch.gov.uk).

In addition, the report provides forecasts of timber availability, for softwoods and hardwoods arising from the stocked area and standing volume. Forecasts are based on the 'headline' harvesting scenario described in the NFI 50-year forecast reports. Forecasting for broadleaved woodland in the Private sector is provided using a harvesting scenario which brings all Private sector broadleaved woodland into production.

The estimates provided in this report are provisional in nature.



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## Approach

The approach taken in the derivation of these results and to be used in their interpretation is described in the full suite of forecast reports which can be found at [www.forestresearch.gov.uk/forecast](http://www.forestresearch.gov.uk/forecast). Refer to the *Standing timber volume in coniferous trees in Britain* (2012) and the *NFI preliminary estimates of quantities of broadleaved species in British Woodlands with special focus on ash* (2014) reports for a description of the underlying methodologies and interpretation, and also for the England and GB context. Refer to the *NFI forecasts methodology overview* (2012) report for a detailed description and discussion of forecasting future availability of timber from NFI field survey data and from information in the Forestry Commission's sub-compartment database (SCDB). The wider context of forecasts of timber production from woodland in Great Britain and its constituent countries under a range of harvesting scenarios can be found in the *50-year forecast of softwood timber availability* (2014) and the *50-year forecast of hardwood timber availability* (2014). The biomass is described in *Estimate of biomass in live woodland trees*, (2011) ([www.forestresearch.gov.uk/forecast](http://www.forestresearch.gov.uk/forecast)).

The estimates reported here are based upon field samples assessed between October 2009 and August 2013, the results of which have been subjected to rigorous data quality assurance procedures. These field samples constitute approximately two thirds of the sites to be sampled within the first cycle of NFI field sampling. As a consequence, the estimates in this report are classed as provisional.

## Results

The results presented in this report are estimates of stocked areas and standing volumes at 31 March 2012, and 25-year forecasts of softwood and hardwood availability under the 'headline' harvesting scenario and modified to assume that all hardwoods are harvested in woodland within 50 miles of Sandwich. The data sources used for the compilation of these estimates are the same as described in the National Forest Inventory reports *Standing timber volume for coniferous trees in Britain* (2012), the *50-year forecast of softwood availability* (2014) and the *50-year forecast of hardwood availability* (2014). Estimates for the Forestry Commission (FC) estate are derived from their sub-compartment database, while those for the private sector (i.e. non-FC in England) estate are derived from information collected in the NFI field survey. A fuller description of these data sources and how they are used in the production of estimates, including sampling standard errors attached to the private sector estimates, is provided in the earlier documents.

The Private sector forecast in this report represents the potential availability of timber under the assumption of harvesting to maximise timber production. The actual levels of timber that will be produced will vary from the results reported here as production

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depends on the harvesting choices made by forest and woodland owners who are unlikely to consistently choose to maximise production over the forecast period.

Results are provided for:

- stocked area at 31 March 2012 (**Figures 1 – 3** and **Tables 1 – 3**)
- felled area (**Table 4**)
- standing volume at 31 March 2012 (**Figures 4 – 6** and **Tables 5 – 7**)
- above ground biomass stocks at 31 March 2012 (**Figures 7 – 9** and **Table 8**)
- the 25-year timber forecast (**Figures 10 – 13** and **Tables 9 – 10**)
- the 25-year biomass forecast (**Table 11**)

The values in the tables have been independently rounded, so may not add to the totals shown. In some breakdowns of Private sector estimates, the estimates in the body of the table may not sum to the quoted total because each individual value, including the total, has been independently generated by the estimation procedure used for results from the NFI sample survey. Sampling standard errors (SE) attached to Private sector estimates are expressed in relative terms (%) to the right of the relevant estimate.

Where the standard error is high this indicates that the estimate should be interpreted with a degree of caution. Any estimate with a relatively large standard error is shown in **amber** in the tables.

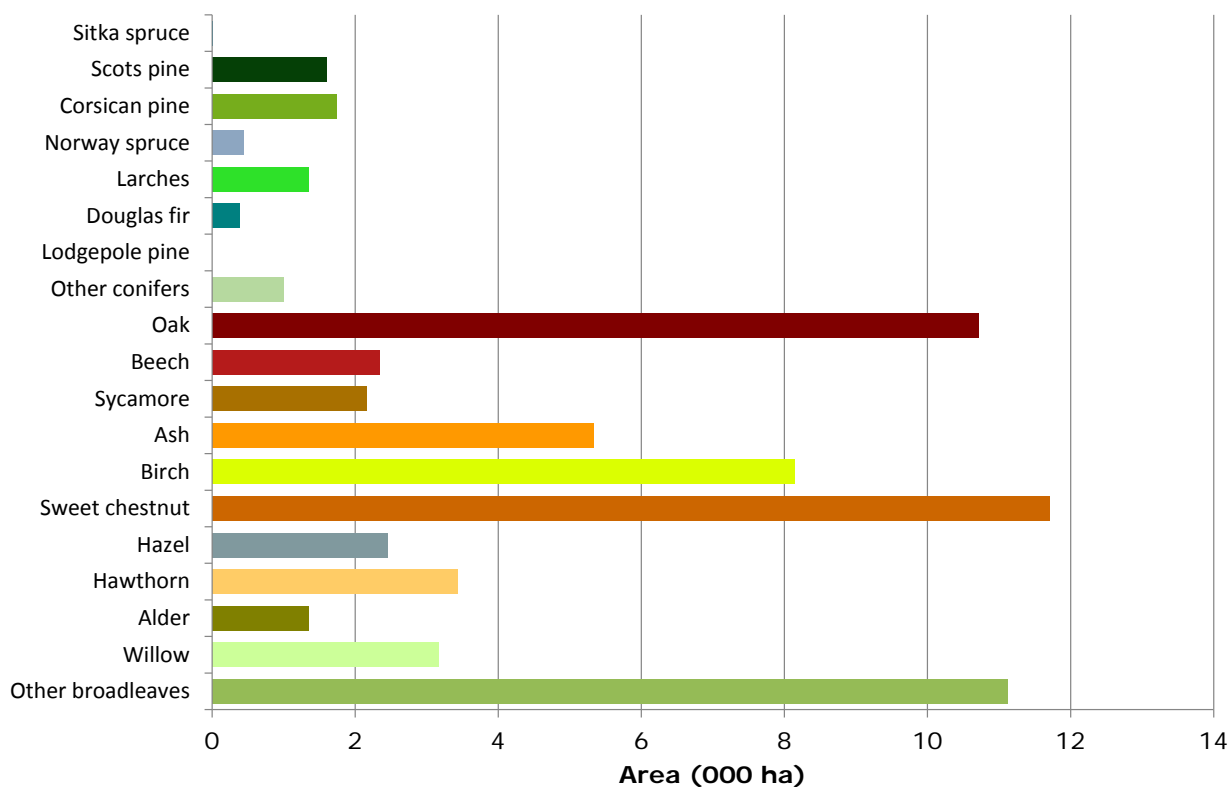
These standard errors depend on the combination of a number of factors but broadly:

- The more woodland that is within the area of interest the more samples that will have been selected, generally leading to lower standard errors
- Increasing the number of categories and sub-categories used (e.g. conifers and broadleaves then sub-divided into species groupings) will result in higher standard errors, especially for the categories that occur less frequently such as minor species
- More variability will also result in higher standard errors; for instance if a species is usually more evenly stocked when compared with another then its standard error will tend to be lower than the latter species.

In this report, for the 50 mile radius, for some of the variables reported, the categories have been pooled into broader categories to produce figures with more acceptable standard errors.

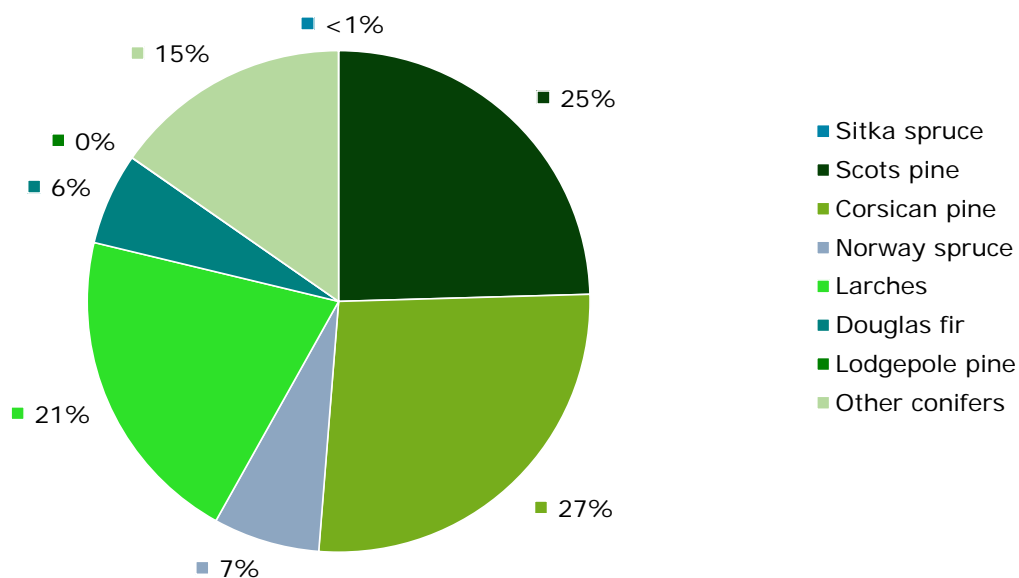
## Stocked area at 31 March 2012

**Figure 1** Principal tree species composition by stocked area at 31 March 2012

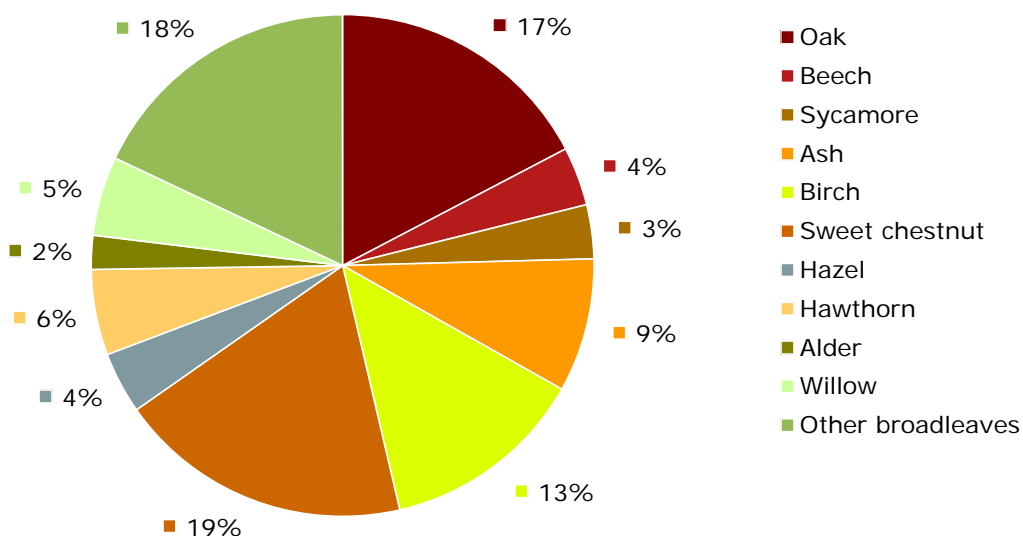


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**Figure 2** Principal conifer tree species composition by stocked area at 31 March 2012



**Figure 3** Principal broadleaved tree species by stocked area as at 31 March 2012





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**Table 1** Stocked area by principal tree species at 31 March 2012

| Principal species      | FC               | Private sector   |           | Total            |
|------------------------|------------------|------------------|-----------|------------------|
|                        | area<br>(000 ha) | area<br>(000 ha) | SE%       | area<br>(000 ha) |
| <b>Conifers</b>        |                  |                  |           |                  |
| Sitka spruce           | 0.0              | < 0.1            | 95        | < 0.1            |
| Scots pine             | 0.4              | 1.2              | 28        | 1.6              |
| Corsican pine          | 0.9              | 0.9              | 27        | 1.7              |
| Norway spruce          | 0.2              | 0.3              | 56        | 0.4              |
| Larches                | 0.1              | 1.2              | 27        | 1.4              |
| Douglas fir            | 0.3              | 0.1              | 53        | 0.4              |
| Lodgepole pine         | 0.0              | 0.0              | -         | 0.0              |
| Other conifers         | 0.2              | 0.8              | 33        | 1.0              |
| <b>All conifers</b>    | <b>2.0</b>       | <b>4.4</b>       | <b>12</b> | <b>6.5</b>       |
| <b>Broadleaves</b>     |                  |                  |           |                  |
| Oak                    | 0.3              | 10.4             | 11        | 10.7             |
| Beech                  | 0.6              | 1.8              | 27        | 2.3              |
| Sycamore               | < 0.1            | 2.1              | 27        | 2.2              |
| Ash                    | < 0.1            | 5.3              | 15        | 5.3              |
| Birch                  | 0.4              | 7.7              | 12        | 8.1              |
| Sweet chestnut         | < 0.1            | 11.6             | 12        | 11.7             |
| Hazel                  | < 0.1            | 2.5              | 17        | 2.5              |
| Hawthorn               | 0.0              | 3.4              | 22        | 3.4              |
| Alder                  | < 0.1            | 1.3              | 29        | 1.3              |
| Willow                 | 0.0              | 3.2              | 24        | 3.2              |
| Other broadleaves      | 0.4              | 10.7             | 11        | 11.1             |
| <b>All broadleaves</b> | <b>1.9</b>       | <b>60.2</b>      | <b>3</b>  | <b>62.0</b>      |
| <b>All species</b>     |                  |                  |           |                  |
| <b>All species</b>     | <b>3.9</b>       | <b>64.6</b>      | <b>2</b>  | <b>68.5</b>      |

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**Table 2** Stocked area by age class at 31 March 2012

| Age class              | FC               | Private sector   |           | Total            |
|------------------------|------------------|------------------|-----------|------------------|
|                        | area<br>(000 ha) | area<br>(000 ha) | SE%       | area<br>(000 ha) |
| <b>All conifers</b>    |                  |                  |           |                  |
| 0–10 years             | < 0.1            | 0.1              | 38        | 0.2              |
| 11–20 years            | 0.3              | < 0.1            | 46        | 0.4              |
| 21–40 years            | 0.6              | 2.0              | 19        | 2.5              |
| 41–60 years            | 0.8              | 1.6              | 26        | 2.4              |
| 61–80 years            | 0.3              | 0.6              | 42        | 0.8              |
| 81–100 years           | < 0.1            | 0.1              | 90        | 0.2              |
| 100+ years             | < 0.1            | < 0.1            | 92        | < 0.1            |
| <b>Total</b>           | <b>2.0</b>       | <b>4.4</b>       | <b>12</b> | <b>6.5</b>       |
| <b>All broadleaves</b> |                  |                  |           |                  |
| 0–10 years             | < 0.1            | 7.5              | 16        | 7.5              |
| 11–20 years            | 0.4              | 5.1              | 15        | 5.4              |
| 21–40 years            | 0.2              | 24.4             | 7         | 24.7             |
| 41–60 years            | 0.6              | 10.7             | 11        | 11.3             |
| 61–80 years            | 0.4              | 5.7              | 15        | 6.1              |
| 81–100 years           | < 0.1            | 5.6              | 18        | 5.7              |
| 100+ years             | 0.1              | 1.1              | 25        | 1.2              |
| <b>Total</b>           | <b>1.9</b>       | <b>60.2</b>      | <b>3</b>  | <b>62.0</b>      |
| <b>All species</b>     |                  |                  |           |                  |
| 0–10 years             | 0.2              | 7.6              | 15        | 7.7              |
| 11–20 years            | 0.7              | 5.1              | 15        | 5.8              |
| 21–40 years            | 0.8              | 26.4             | 7         | 27.2             |
| 41–60 years            | 1.4              | 12.3             | 11        | 13.7             |
| 61–80 years            | 0.7              | 6.3              | 14        | 7.0              |
| 81–100 years           | < 0.1            | 5.8              | 18        | 5.9              |
| 100+ years             | 0.1              | 1.1              | 25        | 1.3              |
| <b>Total</b>           | <b>3.9</b>       | <b>64.6</b>      | <b>2</b>  | <b>68.5</b>      |

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**Table 3** Stocked area by mean stand dbh class at 31 March 2012

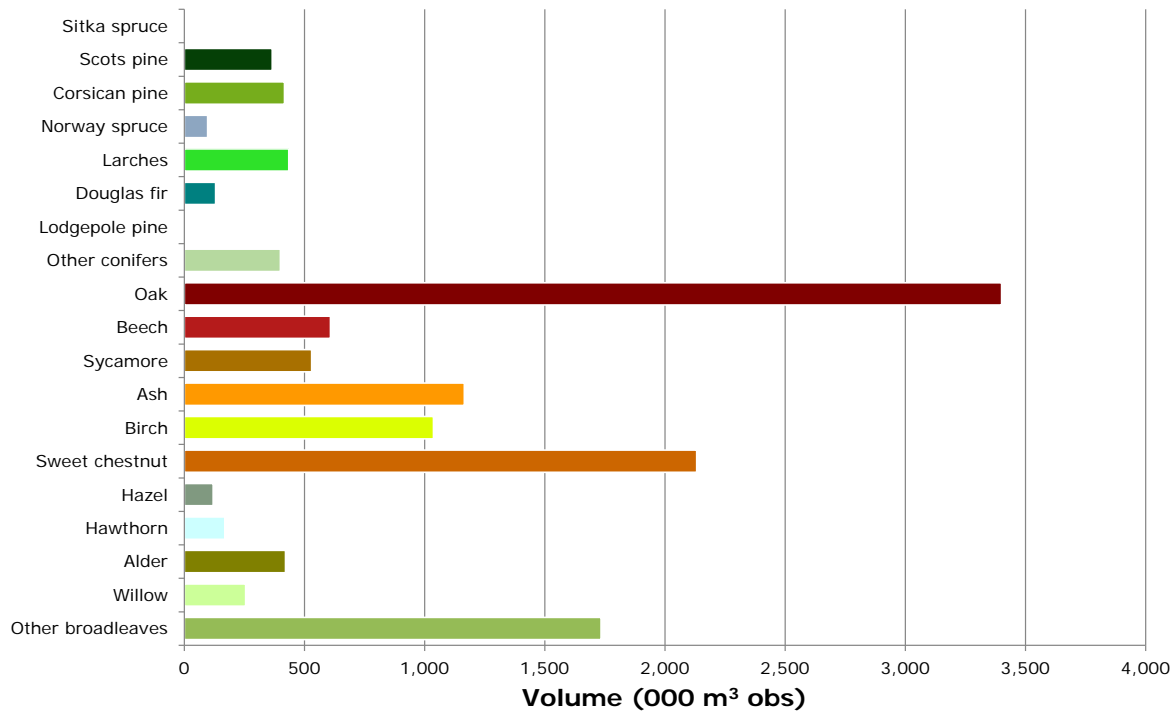
| Mean stand DBH         | FC               | Private sector   |           | Total            |
|------------------------|------------------|------------------|-----------|------------------|
|                        | area<br>(000 ha) | area<br>(000 ha) | SE%       | area<br>(000 ha) |
| <b>All conifers</b>    |                  |                  |           |                  |
| 0–7 cm                 | < 0.1            | 0.1              | 38        | 0.2              |
| 7–10 cm                | < 0.1            | < 0.1            | 36        | 0.1              |
| 10–15 cm               | 0.6              | 0.2              | 47        | 0.9              |
| 15–20 cm               | < 0.1            | 1.2              | 27        | 1.3              |
| 20–30 cm               | 0.3              | 1.3              | 29        | 1.6              |
| 30–40 cm               | 0.5              | 1.1              | 27        | 1.6              |
| 40–60 cm               | 0.4              | 0.4              | 46        | 0.7              |
| 60–80 cm               | < 0.1            | < 0.1            | 92        | < 0.1            |
| 80+ cm                 | 0.0              | < 0.1            | 98        | < 0.1            |
| <b>Total</b>           | <b>2.0</b>       | <b>4.4</b>       | <b>12</b> | <b>6.5</b>       |
| <b>All broadleaves</b> |                  |                  |           |                  |
| 0–7 cm                 | 0.2              | 10.3             | 12        | 10.4             |
| 7–10 cm                | 0.5              | 10.6             | 9         | 11.1             |
| 10–15 cm               | 0.3              | 11.7             | 10        | 12.0             |
| 15–20 cm               | 0.2              | 4.9              | 14        | 5.1              |
| 20–30 cm               | 0.5              | 8.2              | 12        | 8.6              |
| 30–40 cm               | 0.2              | 6.1              | 15        | 6.3              |
| 40–60 cm               | < 0.1            | 5.7              | 17        | 5.7              |
| 60–80 cm               | < 0.1            | 2.0              | 27        | 2.0              |
| 80+ cm                 | 0.0              | 0.8              | 39        | 0.8              |
| <b>Total</b>           | <b>1.9</b>       | <b>60.2</b>      | <b>3</b>  | <b>62.0</b>      |
| <b>All species</b>     |                  |                  |           |                  |
| 0–7 cm                 | 0.2              | 10.4             | 12        | 10.6             |
| 7–10 cm                | 0.5              | 10.6             | 9         | 11.2             |
| 10–15 cm               | 0.9              | 11.9             | 10        | 12.9             |
| 15–20 cm               | 0.3              | 6.1              | 13        | 6.4              |
| 20–30 cm               | 0.8              | 9.4              | 11        | 10.2             |
| 30–40 cm               | 0.7              | 7.2              | 14        | 7.9              |
| 40–60 cm               | 0.4              | 6.0              | 16        | 6.4              |
| 60–80 cm               | < 0.1            | 2.0              | 27        | 2.1              |
| 80+ cm                 | 0.0              | 0.8              | 39        | 0.8              |
| <b>Total</b>           | <b>3.9</b>       | <b>64.6</b>      | <b>2</b>  | <b>68.5</b>      |

**Table 4** Felled area at 31 March 2012

| Clearfelled area | FC               | Private sector   |     | Total            |
|------------------|------------------|------------------|-----|------------------|
|                  | area<br>(000 ha) | area<br>(000 ha) | SE% | area<br>(000 ha) |
|                  | < 0.1            | 0.6              | 45  | 0.7              |

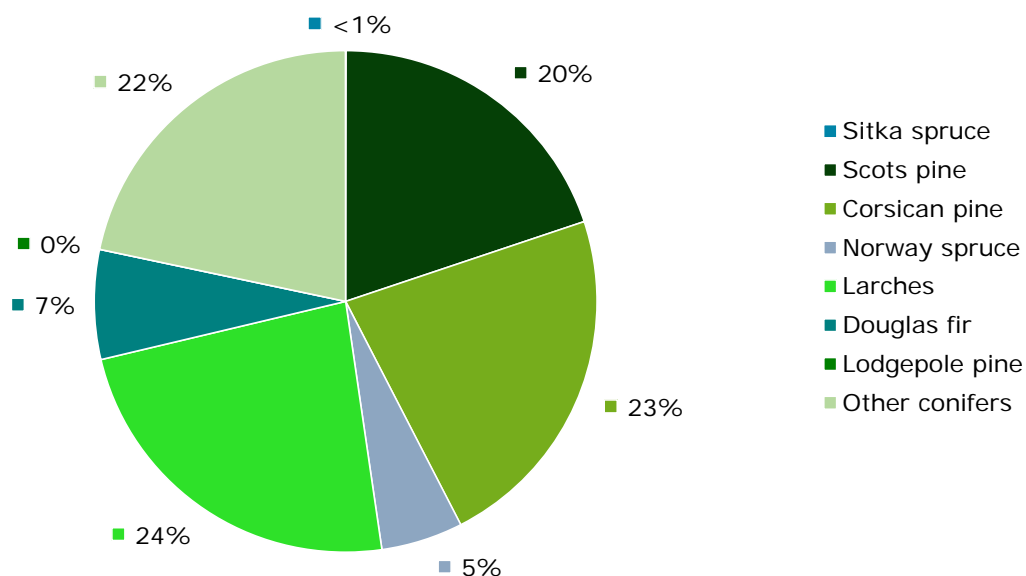
## Standing volume at 31 March 2012

**Figure 4** Principal tree species composition by standing volume at 31 March 2012

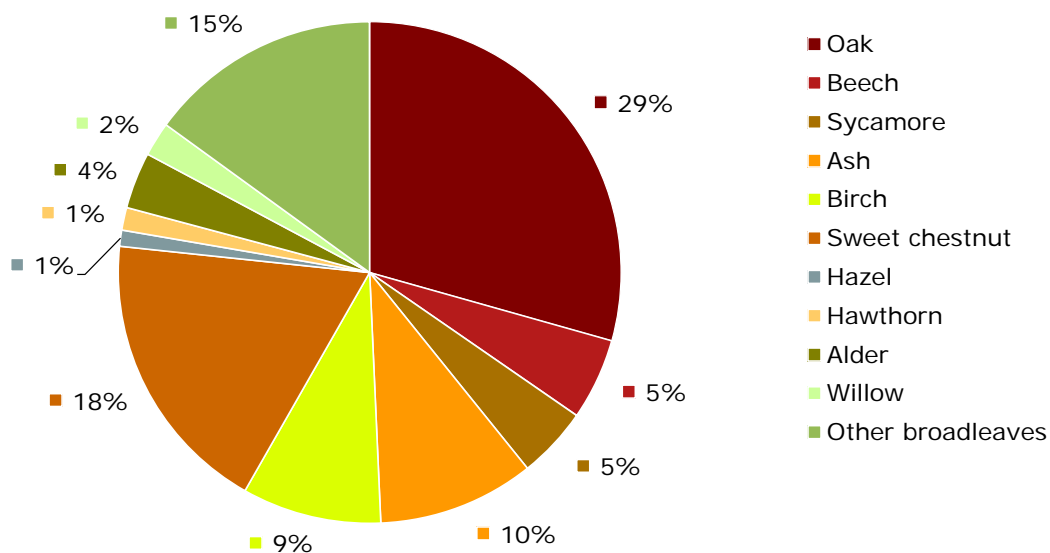


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**Figure 5** Principal conifer tree species composition by standing volume at 31 March 2012



**Figure 6** Principal broadleaved tree species composition by standing volume at 31 March 2012



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**Table 5** Standing volume by principal tree species at 31 March 2012

| Principal species      | FC                                 | Private sector                     |           | Total                              |
|------------------------|------------------------------------|------------------------------------|-----------|------------------------------------|
|                        | volume<br>(000 m <sup>3</sup> obs) | volume<br>(000 m <sup>3</sup> obs) | SE%       | volume<br>(000 m <sup>3</sup> obs) |
| <b>Conifers</b>        |                                    |                                    |           |                                    |
| Sitka spruce           | 0                                  | < 1                                | 95        | < 1                                |
| Scots pine             | 96                                 | 270                                | 27        | 366                                |
| Corsican pine          | 147                                | 270                                | 31        | 417                                |
| Norway spruce          | 48                                 | 49                                 | 63        | 97                                 |
| Larches                | 24                                 | 411                                | 27        | 435                                |
| Douglas fir            | 48                                 | 82                                 | 53        | 130                                |
| Lodgepole pine         | 0                                  | 0                                  | -         | 0                                  |
| Other conifers         | 62                                 | 337                                | 43        | 400                                |
| <b>All conifers</b>    | <b>425</b>                         | <b>1,369</b>                       | <b>14</b> | <b>1,794</b>                       |
| <b>Broadleaves</b>     |                                    |                                    |           |                                    |
| Oak                    | 59                                 | 3,342                              | 13        | 3,401                              |
| Beech                  | 99                                 | 509                                | 32        | 608                                |
| Sycamore               | < 1                                | 530                                | 31        | 530                                |
| Ash                    | 9                                  | 1,157                              | 18        | 1,166                              |
| Birch                  | 27                                 | 1,010                              | 14        | 1,037                              |
| Sweet chestnut         | 4                                  | 2,128                              | 16        | 2,132                              |
| Hazel                  | < 1                                | 120                                | 29        | 120                                |
| Hawthorn               | 0                                  | 169                                | 32        | 169                                |
| Alder                  | < 1                                | 421                                | 36        | 421                                |
| Willow                 | 0                                  | 255                                | 25        | 255                                |
| Other broadleaves      | 31                                 | 1,703                              | 17        | 1,734                              |
| <b>All broadleaves</b> | <b>230</b>                         | <b>11,363</b>                      | <b>6</b>  | <b>11,593</b>                      |
| <b>All species</b>     |                                    |                                    |           |                                    |
| <b>All species</b>     | <b>655</b>                         | <b>12,734</b>                      | <b>5</b>  | <b>13,389</b>                      |

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**Table 6** Standing volume by age class at 31 March 2012

| Age class              | FC                                 | Private sector                     |           | Total                              |
|------------------------|------------------------------------|------------------------------------|-----------|------------------------------------|
|                        | volume<br>(000 m <sup>3</sup> obs) | volume<br>(000 m <sup>3</sup> obs) | SE%       | volume<br>(000 m <sup>3</sup> obs) |
| <b>All conifers</b>    |                                    |                                    |           |                                    |
| 0–10 years             | < 1                                | 0                                  | -         | < 1                                |
| 11–20 years            | 21                                 | 3                                  | 86        | 25                                 |
| 21–40 years            | 75                                 | 516                                | 20        | 591                                |
| 41–60 years            | 235                                | 527                                | 27        | 762                                |
| 61–80 years            | 78                                 | 306                                | 53        | 384                                |
| 81–100 years           | 14                                 | 17                                 | 78        | 32                                 |
| 100+ years             | < 1                                | < 1                                | 92        | < 1                                |
| <b>Total</b>           | <b>425</b>                         | <b>1,369</b>                       | <b>14</b> | <b>1,794</b>                       |
| <b>All broadleaves</b> |                                    |                                    |           |                                    |
| 0–10 years             | 0                                  | 2                                  | 12        | 2                                  |
| 11–20 years            | 4                                  | 163                                | 21        | 167                                |
| 21–40 years            | 12                                 | 3,971                              | 10        | 3,983                              |
| 41–60 years            | 79                                 | 2,396                              | 12        | 2,475                              |
| 61–80 years            | 89                                 | 1,667                              | 17        | 1,756                              |
| 81–100 years           | 14                                 | 2,506                              | 18        | 2,520                              |
| 100+ years             | 32                                 | 657                                | 28        | 689                                |
| <b>Total</b>           | <b>230</b>                         | <b>11,363</b>                      | <b>6</b>  | <b>11,593</b>                      |
| <b>All species</b>     |                                    |                                    |           |                                    |
| 0–10 years             | < 1                                | 2                                  | 12        | 2                                  |
| 11–20 years            | 25                                 | 167                                | 21        | 192                                |
| 21–40 years            | 88                                 | 4,488                              | 9         | 4,575                              |
| 41–60 years            | 314                                | 2,924                              | 11        | 3,238                              |
| 61–80 years            | 167                                | 1,972                              | 16        | 2,139                              |
| 81–100 years           | 28                                 | 2,524                              | 18        | 2,552                              |
| 100+ years             | 33                                 | 657                                | 28        | 690                                |
| <b>Total</b>           | <b>655</b>                         | <b>12,734</b>                      | <b>5</b>  | <b>13,389</b>                      |

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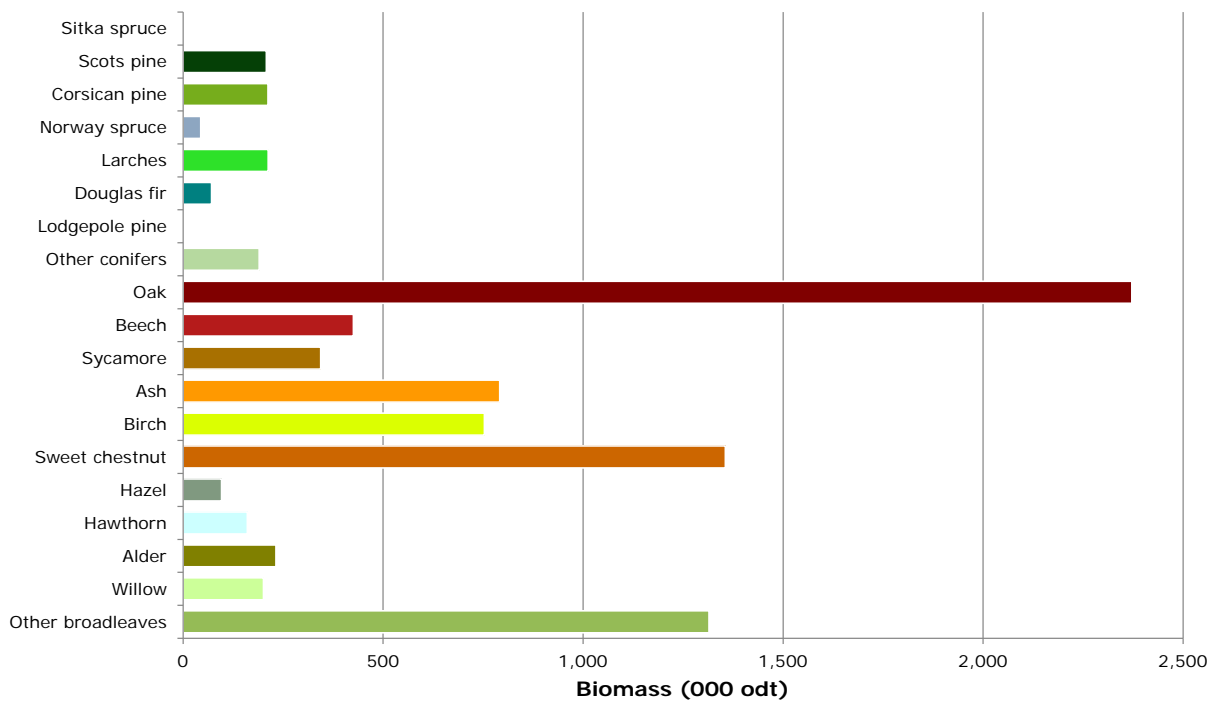
**Table 7** Standing volume by mean dbh class at 31 March 2012

| Mean stand DBH         | FC                                 | Private sector                     |           | Total                              |
|------------------------|------------------------------------|------------------------------------|-----------|------------------------------------|
|                        | volume<br>(000 m <sup>3</sup> obs) | volume<br>(000 m <sup>3</sup> obs) | SE%       | volume<br>(000 m <sup>3</sup> obs) |
| <b>All conifers</b>    |                                    |                                    |           |                                    |
| 0–7 cm                 | < 1                                | 0                                  | -         | < 1                                |
| 7–10 cm                | 2                                  | 3                                  | 58        | 5                                  |
| 10–15 cm               | 65                                 | 23                                 | 53        | 88                                 |
| 15–20 cm               | 14                                 | 275                                | 26        | 289                                |
| 20–30 cm               | 81                                 | 444                                | 38        | 526                                |
| 30–40 cm               | 140                                | 395                                | 28        | 534                                |
| 40–60 cm               | 115                                | 173                                | 46        | 288                                |
| 60–80 cm               | 9                                  | 37                                 | 92        | 46                                 |
| 80+ cm                 | 0                                  | 19                                 | 98        | 19                                 |
| <b>Total</b>           | <b>425</b>                         | <b>1,369</b>                       | <b>14</b> | <b>1,794</b>                       |
| <b>All broadleaves</b> |                                    |                                    |           |                                    |
| 0–7 cm                 | < 1                                | 73                                 | 22        | 74                                 |
| 7–10 cm                | 11                                 | 583                                | 11        | 594                                |
| 10–15 cm               | 40                                 | 1,681                              | 11        | 1,721                              |
| 15–20 cm               | 37                                 | 1,466                              | 21        | 1,503                              |
| 20–30 cm               | 84                                 | 2,243                              | 14        | 2,327                              |
| 30–40 cm               | 50                                 | 1,714                              | 16        | 1,764                              |
| 40–60 cm               | 8                                  | 1,812                              | 18        | 1,820                              |
| 60–80 cm               | < 1                                | 914                                | 27        | 914                                |
| 80+ cm                 | 0                                  | 877                                | 35        | 877                                |
| <b>Total</b>           | <b>230</b>                         | <b>11,363</b>                      | <b>6</b>  | <b>11,593</b>                      |
| <b>All species</b>     |                                    |                                    |           |                                    |
| 0–7 cm                 | < 1                                | 73                                 | 22        | 74                                 |
| 7–10 cm                | 12                                 | 586                                | 11        | 599                                |
| 10–15 cm               | 105                                | 1,704                              | 11        | 1,809                              |
| 15–20 cm               | 50                                 | 1,742                              | 18        | 1,792                              |
| 20–30 cm               | 165                                | 2,687                              | 13        | 2,852                              |
| 30–40 cm               | 190                                | 2,108                              | 14        | 2,298                              |
| 40–60 cm               | 123                                | 1,985                              | 17        | 2,108                              |
| 60–80 cm               | 9                                  | 951                                | 27        | 960                                |
| 80+ cm                 | 0                                  | 896                                | 35        | 896                                |
| <b>Total</b>           | <b>655</b>                         | <b>12,734</b>                      | <b>5</b>  | <b>13,389</b>                      |



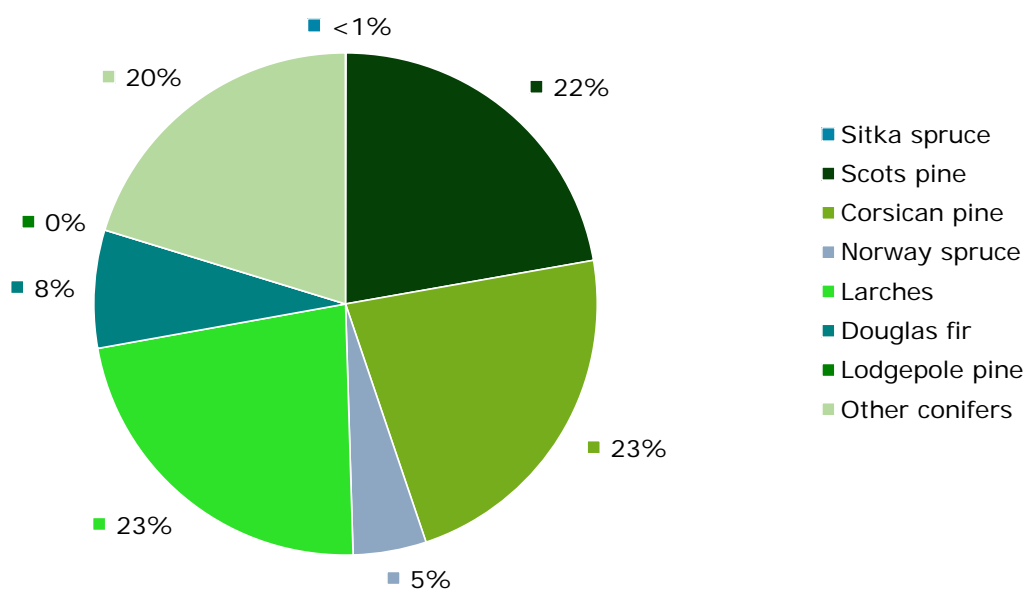
## Above ground biomass at 31 March 2012

**Figure 7** Principal tree species composition by above ground biomass at 31 March 2012

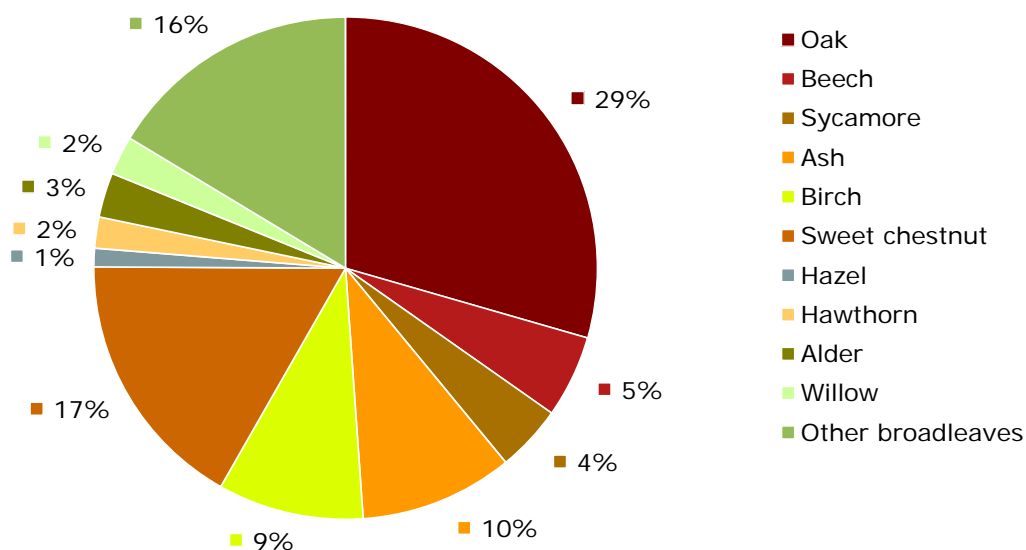


# NFI Provisional Report

**Figure 8** Principal conifer tree species composition by above ground biomass at 31 March 2012



**Figure 9** Principal broadleaved tree species composition by above ground biomass at 31 March 2012



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**Table 8** Biomass stock (above ground) by principal tree species as at 31 March 2012

| Principal species      | FC                   | Private sector       |           | Total                |
|------------------------|----------------------|----------------------|-----------|----------------------|
|                        | biomass<br>(000 odt) | biomass<br>(000 odt) | SE%       | biomass<br>(000 odt) |
| <b>Conifers</b>        |                      |                      |           |                      |
| Sitka spruce           | 0                    | < 1                  | 95        | < 1                  |
| Scots pine             | 55                   | 153                  | 27        | 208                  |
| Corsican pine          | 79                   | 134                  | 31        | 212                  |
| Norway spruce          | 22                   | 23                   | 62        | 44                   |
| Larches                | 12                   | 201                  | 27        | 213                  |
| Douglas fir            | 28                   | 44                   | 53        | 71                   |
| Lodgepole pine         | 0                    | 0                    | -         | 0                    |
| Other conifers         | 28                   | 162                  | 41        | 190                  |
| <b>All conifers</b>    | <b>224</b>           | <b>690</b>           | <b>13</b> | <b>914</b>           |
| <b>Broadleaves</b>     |                      |                      |           |                      |
| Oak                    | 43                   | 2,329                | 13        | 2,372                |
| Beech                  | 71                   | 354                  | 32        | 426                  |
| Sycamore               | < 1                  | 344                  | 31        | 344                  |
| Ash                    | 6                    | 785                  | 18        | 792                  |
| Birch                  | 23                   | 731                  | 13        | 753                  |
| Sweet chestnut         | 3                    | 1,353                | 15        | 1,356                |
| Hazel                  | < 1                  | 96                   | 25        | 96                   |
| Hawthorn               | 0                    | 161                  | 30        | 161                  |
| Alder                  | < 1                  | 232                  | 35        | 232                  |
| Willow                 | 0                    | 201                  | 24        | 201                  |
| Other broadleaves      | 22                   | 1,293                | 16        | 1,315                |
| <b>All broadleaves</b> | <b>169</b>           | <b>7,893</b>         | <b>5</b>  | <b>8,063</b>         |
| <b>All species</b>     |                      |                      |           |                      |
| <b>All species</b>     | <b>393</b>           | <b>8,584</b>         | <b>5</b>  | <b>8,978</b>         |

## 25-year forecast of availability

Refer to the NFI report *50-year forecast of softwood timber availability (2014)* for a description of the underlying methodology and interpretation of the softwood forecast, and also for the England and GB context.

Refer to the NFI report *50-year forecast of hardwood timber availability (2014)* for a description of the underlying methodology and interpretation of the hardwood forecast, and also for the England and GB context.

In **Tables 9 – 11** and **Figures 10 – 13** the estimates for the Forestry Commission are based on harvesting regimes derived from their felling and thinning plans as of 31 March 2012.

For the Private sector, information for **Tables 9 – 11** and **Figures 10 – 13** is based on a scenario which assumes felling at age of maximum mean annual increment with moderate wind risk measures for conifers and broadleaves.

Restocking assumptions for conifer stands clearfelled during the forecast period have been implemented that provide for:

- a 10% reduction in the area of conifers on the subsequent rotation
- restocking of currently clearfelled land
- a change in the composition of conifer species on restocking

Restocking assumptions for broadleaved stands clearfelled during the forecast period have been included that provide for:

- No reduction in stocked area.
- Like for like species choices are used for broadleaves.
- That 50% of the land associated with the reduction in conifer stocked area arising from the assumption above is stocked with broadleaves.

A full description of the restocking assumptions is to be found in **Table D3** of the *50-year forecast of softwood timber availability (2014)*. The same restocking assumptions have been applied to both the FC and Private sector forecasts.

Woodland that is classed as currently clearfelled will be restocked according to the restock prescription.

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## 25-year forecast of timber availability

**Table 9** 25-year forecast of timber availability by time period and principal species; average annual volumes within period

| Principal species      | 2017–21                            |                |                                    | 2022–26                            |                |                                    | 2027–31                            |                |                                    |            |           |            |
|------------------------|------------------------------------|----------------|------------------------------------|------------------------------------|----------------|------------------------------------|------------------------------------|----------------|------------------------------------|------------|-----------|------------|
|                        | FC                                 | Private sector | Total                              | FC                                 | Private sector | Total                              | FC                                 | Private sector | Total                              |            |           |            |
|                        | volume<br>(000 m <sup>3</sup> obs) | SE%            | volume<br>(000 m <sup>3</sup> obs) | volume<br>(000 m <sup>3</sup> obs) | SE%            | volume<br>(000 m <sup>3</sup> obs) | volume<br>(000 m <sup>3</sup> obs) | SE%            | volume<br>(000 m <sup>3</sup> obs) |            |           |            |
| <b>All conifers</b>    | <b>29</b>                          | <b>80</b>      | <b>21</b>                          | <b>108</b>                         | <b>20</b>      | <b>52</b>                          | <b>20</b>                          | <b>72</b>      | <b>19</b>                          | <b>66</b>  | <b>29</b> | <b>85</b>  |
| Sitka spruce           | 0                                  | 0              | -                                  | 0                                  | 0              | 0                                  | -                                  | 0              | 0                                  | 0          | -         | 0          |
| Scots pine             | 11                                 | 9              | 28                                 | 20                                 | 6              | 9                                  | 29                                 | 15             | 1                                  | 14         | 31        | 15         |
| Corsican pine          | 9                                  | 12             | 30                                 | 21                                 | 8              | 5                                  | 36                                 | 14             | 8                                  | 34         | 54        | 42         |
| Norway spruce          | 3                                  | 3              | 61                                 | 5                                  | 2              | 3                                  | 61                                 | 4              | 3                                  | 3          | 61        | 5          |
| Larches                | 1                                  | 34             | 37                                 | 35                                 | < 1            | 21                                 | 38                                 | 22             | 1                                  | 8          | 41        | 9          |
| Douglas fir            | 2                                  | 7              | 60                                 | 9                                  | 2              | 3                                  | 63                                 | 5              | 4                                  | 1          | 92        | 5          |
| Lodgepole pine         | 0                                  | 0              | -                                  | 0                                  | 0              | 0                                  | -                                  | 0              | 0                                  | 0          | -         | 0          |
| Other conifers         | 3                                  | 21             | 57                                 | 24                                 | 1              | 13                                 | 52                                 | 14             | 2                                  | 7          | 58        | 9          |
| <b>All broadleaves</b> | <b>5</b>                           | <b>487</b>     | <b>9</b>                           | <b>493</b>                         | <b>&lt; 1</b>  | <b>419</b>                         | <b>10</b>                          | <b>420</b>     | <b>5</b>                           | <b>269</b> | <b>9</b>  | <b>274</b> |
| Oak                    | 1                                  | 54             | 55                                 | 55                                 | < 1            | 45                                 | 35                                 | 45             | 1                                  | 58         | 34        | 59         |
| Beech                  | 4                                  | 7              | 37                                 | 11                                 | < 1            | 18                                 | 59                                 | 19             | 4                                  | 6          | 38        | 10         |
| Sycamore               | < 1                                | 38             | 36                                 | 38                                 | 0              | 22                                 | 42                                 | 22             | < 1                                | 10         | 50        | 10         |
| Ash                    | < 1                                | 95             | 21                                 | 95                                 | < 1            | 68                                 | 29                                 | 68             | < 1                                | 16         | 21        | 17         |
| Birch                  | < 1                                | 90             | 15                                 | 91                                 | < 1            | 79                                 | 21                                 | 79             | < 1                                | 34         | 21        | 34         |
| Sweet chestnut         | < 1                                | 65             | 19                                 | 65                                 | < 1            | 57                                 | 13                                 | 57             | < 1                                | 58         | 13        | 58         |
| Hazel                  | 0                                  | 5              | 18                                 | 5                                  | 0              | 16                                 | 44                                 | 16             | 0                                  | 7          | 18        | 7          |
| Hawthorn               | 0                                  | 6              | 31                                 | 6                                  | 0              | 7                                  | 29                                 | 7              | 0                                  | 6          | 29        | 6          |
| Alder                  | < 1                                | 38             | 41                                 | 38                                 | 0              | 21                                 | 44                                 | 21             | < 1                                | 3          | 43        | 3          |
| Willow                 | 0                                  | 10             | 34                                 | 10                                 | 0              | 8                                  | 22                                 | 8              | 0                                  | 12         | 21        | 12         |
| Other broadleaves      | < 1                                | 77             | 26                                 | 77                                 | < 1            | 78                                 | 28                                 | 78             | < 1                                | 56         | 20        | 56         |
| <b>All species</b>     | <b>34</b>                          | <b>567</b>     | <b>8</b>                           | <b>601</b>                         | <b>20</b>      | <b>471</b>                         | <b>9</b>                           | <b>491</b>     | <b>24</b>                          | <b>334</b> | <b>9</b>  | <b>359</b> |

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**Table 9 (cont'd)** 25-year forecast of timber availability by time period and principal species; average annual volumes within period

| Principal species      | 2032–36                            |                |                                    |                                    | 2037–41                            |                |                                    |            |
|------------------------|------------------------------------|----------------|------------------------------------|------------------------------------|------------------------------------|----------------|------------------------------------|------------|
|                        | FC                                 | Private sector |                                    | Total                              | FC                                 | Private sector |                                    | Total      |
|                        | volume<br>(000 m <sup>3</sup> obs) | SE%            | volume<br>(000 m <sup>3</sup> obs) | volume<br>(000 m <sup>3</sup> obs) | volume<br>(000 m <sup>3</sup> obs) | SE%            | volume<br>(000 m <sup>3</sup> obs) |            |
| <b>All conifers</b>    | <b>24</b>                          | <b>43</b>      | <b>20</b>                          | <b>67</b>                          | <b>22</b>                          | <b>84</b>      | <b>26</b>                          | <b>106</b> |
| Sitka spruce           | < 1                                | 2              | 46                                 | 2                                  | < 1                                | 2              | 40                                 | 2          |
| Scots pine             | 4                                  | 7              | 32                                 | 11                                 | 2                                  | 46             | 40                                 | 47         |
| Corsican pine          | 10                                 | 9              | 51                                 | 19                                 | 11                                 | 3              | 30                                 | 14         |
| Norway spruce          | 2                                  | 3              | 52                                 | 5                                  | 2                                  | 9              | 71                                 | 11         |
| Larches                | 1                                  | 10             | 37                                 | 11                                 | 1                                  | 15             | 55                                 | 16         |
| Douglas fir            | 4                                  | 2              | 64                                 | 6                                  | 3                                  | 1              | 33                                 | 5          |
| Lodgepole pine         | 0                                  | 0              | -                                  | 0                                  | < 1                                | < 1            | 46                                 | < 1        |
| Other conifers         | 2                                  | 12             | 49                                 | 14                                 | 2                                  | 8              | 58                                 | 10         |
| <b>All broadleaves</b> | <b>&lt; 1</b>                      | <b>320</b>     | <b>10</b>                          | <b>320</b>                         | <b>5</b>                           | <b>306</b>     | <b>9</b>                           | <b>311</b> |
| Oak                    | < 1                                | 87             | 31                                 | 87                                 | < 1                                | 50             | 32                                 | 51         |
| Beech                  | < 1                                | 9              | 39                                 | 9                                  | 4                                  | 19             | 65                                 | 22         |
| Sycamore               | 0                                  | 9              | 42                                 | 9                                  | < 1                                | 8              | 35                                 | 8          |
| Ash                    | < 1                                | 26             | 24                                 | 26                                 | < 1                                | 25             | 40                                 | 25         |
| Birch                  | < 1                                | 33             | 21                                 | 33                                 | < 1                                | 36             | 21                                 | 36         |
| Sweet chestnut         | < 1                                | 77             | 18                                 | 77                                 | < 1                                | 65             | 13                                 | 65         |
| Hazel                  | 0                                  | 10             | 19                                 | 10                                 | 0                                  | 18             | 25                                 | 18         |
| Hawthorn               | 0                                  | 7              | 27                                 | 7                                  | 0                                  | 7              | 25                                 | 7          |
| Alder                  | 0                                  | 9              | 44                                 | 9                                  | < 1                                | 7              | 35                                 | 7          |
| Willow                 | 0                                  | 15             | 25                                 | 15                                 | 0                                  | 22             | 41                                 | 22         |
| Other broadleaves      | < 1                                | 43             | 17                                 | 43                                 | < 1                                | 48             | 16                                 | 49         |
| <b>All species</b>     | <b>24</b>                          | <b>363</b>     | <b>9</b>                           | <b>387</b>                         | <b>27</b>                          | <b>391</b>     | <b>9</b>                           | <b>417</b> |

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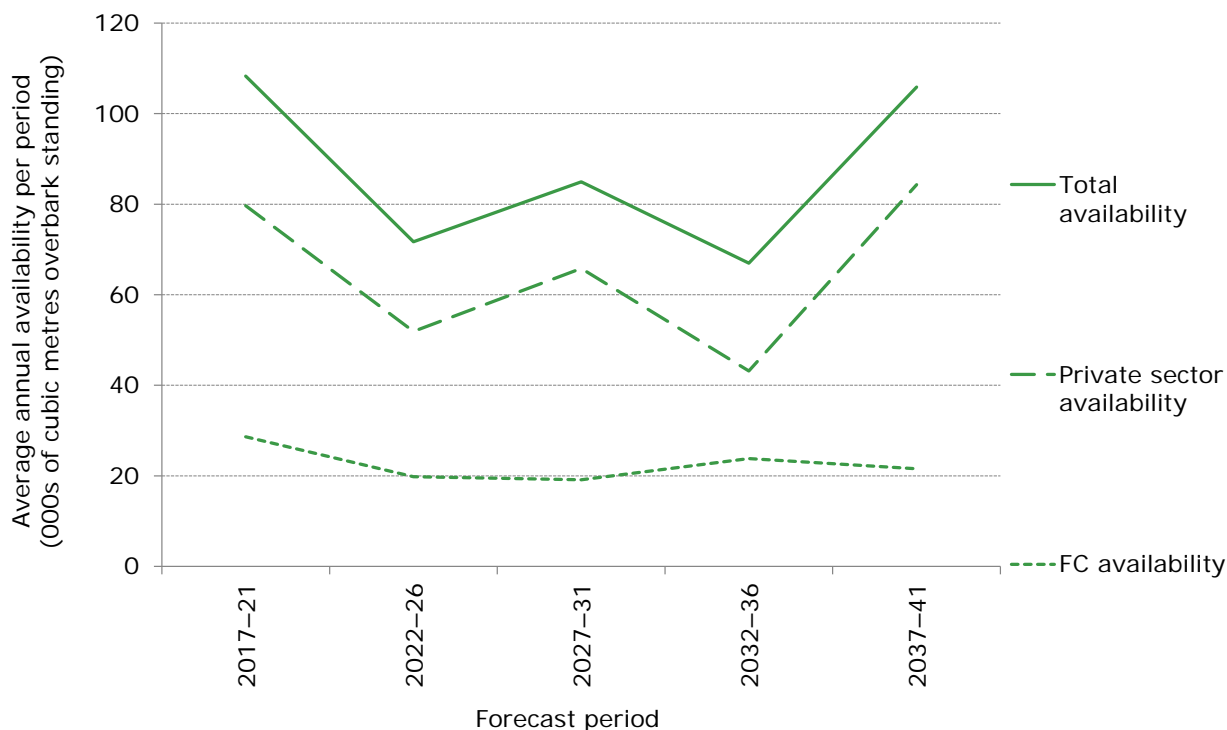
**Table 10** 25-year forecast of timber availability by period, top-diameter class and conifer or broadleaves

| Top diameter class (cm) | 2017–21               |                       |           | 2022–26               |                       |           | 2027–31               |                       |           | 2032–36               |                       |           | 2037–41               |                       |           |
|-------------------------|-----------------------|-----------------------|-----------|-----------------------|-----------------------|-----------|-----------------------|-----------------------|-----------|-----------------------|-----------------------|-----------|-----------------------|-----------------------|-----------|
|                         | FC                    | Private sector        |           | FC                    | Private sector        |           | FC                    | Private sector        |           | FC                    | Private sector        |           | FC                    | Private sector        |           |
|                         | (000 m <sup>3</sup> ) | (000 m <sup>3</sup> ) | SE%       | (000 m <sup>3</sup> ) | (000 m <sup>3</sup> ) | SE%       | (000 m <sup>3</sup> ) | (000 m <sup>3</sup> ) | SE%       | (000 m <sup>3</sup> ) | (000 m <sup>3</sup> ) | SE%       | (000 m <sup>3</sup> ) | (000 m <sup>3</sup> ) | SE%       |
| <b>All conifers</b>     |                       |                       |           |                       |                       |           |                       |                       |           |                       |                       |           |                       |                       |           |
| 7–14                    | 5                     | 9                     | 26        | 4                     | 5                     | 28        | 2                     | 4                     | 22        | 2                     | 5                     | 22        | 2                     | 7                     | 25        |
| 14–16                   | 1                     | 6                     | 29        | 1                     | 3                     | 31        | 1                     | 2                     | 22        | < 1                   | 2                     | 19        | < 1                   | 2                     | 22        |
| 16–18                   | 1                     | 7                     | 30        | 1                     | 4                     | 31        | 1                     | 3                     | 24        | 1                     | 2                     | 22        | < 1                   | 2                     | 20        |
| 18–24                   | 4                     | 21                    | 25        | 3                     | 15                    | 25        | 4                     | 14                    | 28        | 5                     | 9                     | 25        | 4                     | 8                     | 27        |
| 24–34                   | 7                     | 19                    | 27        | 5                     | 14                    | 20        | 5                     | 27                    | 33        | 6                     | 15                    | 23        | 6                     | 24                    | 29        |
| 34–44                   | 5                     | 9                     | 35        | 3                     | 5                     | 31        | 3                     | 11                    | 35        | 4                     | 6                     | 28        | 3                     | 17                    | 31        |
| 44–54                   | 3                     | 4                     | 46        | 2                     | 3                     | 37        | 1                     | 4                     | 36        | 2                     | 3                     | 34        | 2                     | 9                     | 35        |
| 54+                     | 2                     | 5                     | 53        | 1                     | 3                     | 51        | 1                     | 2                     | 45        | 3                     | 2                     | 50        | 3                     | 15                    | 40        |
| <b>Total</b>            | <b>29</b>             | <b>80</b>             | <b>21</b> | <b>20</b>             | <b>52</b>             | <b>20</b> | <b>19</b>             | <b>66</b>             | <b>29</b> | <b>24</b>             | <b>43</b>             | <b>20</b> | <b>22</b>             | <b>84</b>             | <b>26</b> |

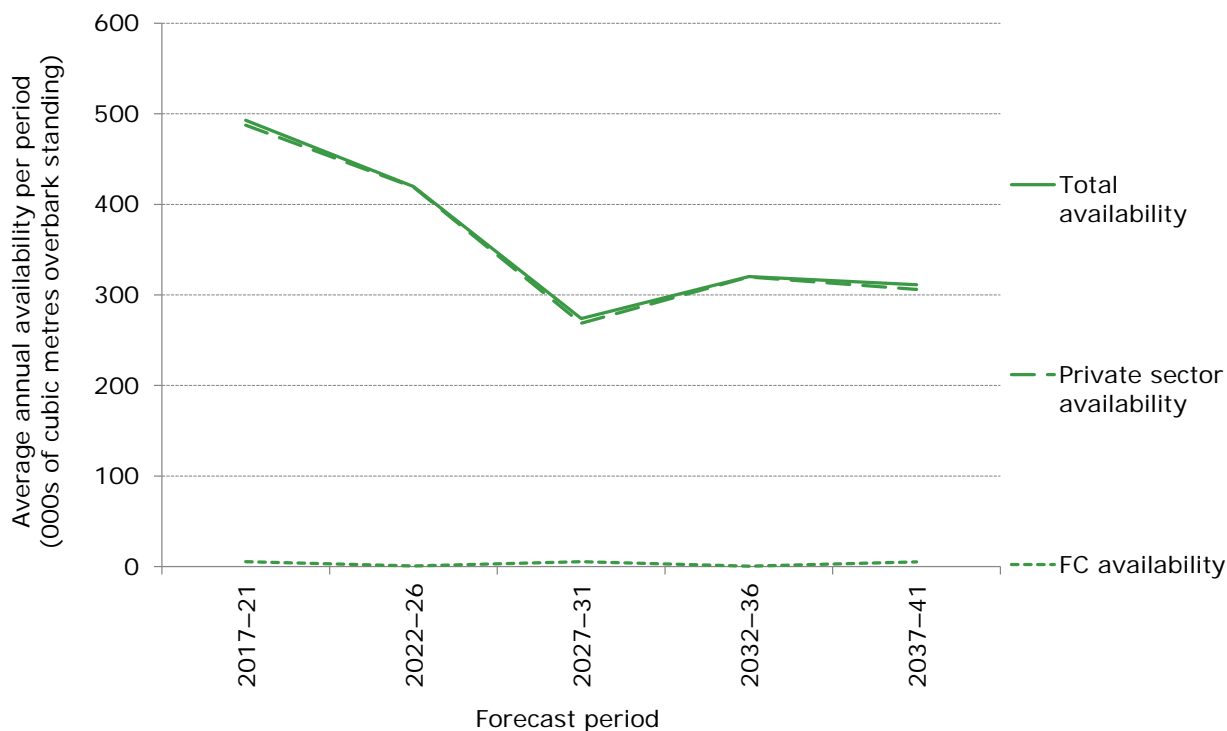
| Top diameter class (cm) | 2017–21               |                       |          | 2022–26               |                       |           | 2027–31               |                       |          | 2032–36               |                       |           | 2037–41               |                       |          |
|-------------------------|-----------------------|-----------------------|----------|-----------------------|-----------------------|-----------|-----------------------|-----------------------|----------|-----------------------|-----------------------|-----------|-----------------------|-----------------------|----------|
|                         | FC                    | Private sector        |          | FC                    | Private sector        |           | FC                    | Private sector        |          | FC                    | Private sector        |           | FC                    | Private sector        |          |
|                         | (000 m <sup>3</sup> ) | (000 m <sup>3</sup> ) | SE%      | (000 m <sup>3</sup> ) | (000 m <sup>3</sup> ) | SE%       | (000 m <sup>3</sup> ) | (000 m <sup>3</sup> ) | SE%      | (000 m <sup>3</sup> ) | (000 m <sup>3</sup> ) | SE%       | (000 m <sup>3</sup> ) | (000 m <sup>3</sup> ) | SE%      |
| <b>All broadleaves</b>  |                       |                       |          |                       |                       |           |                       |                       |          |                       |                       |           |                       |                       |          |
| 7–14                    | 1                     | 133                   | 8        | < 1                   | 134                   | 11        | < 1                   | 95                    | 6        | < 1                   | 113                   | 8         | < 1                   | 105                   | 7        |
| 14–16                   | < 1                   | 31                    | 10       | < 1                   | 35                    | 15        | < 1                   | 21                    | 9        | < 1                   | 22                    | 9         | < 1                   | 22                    | 9        |
| 16–18                   | < 1                   | 31                    | 10       | < 1                   | 33                    | 14        | < 1                   | 21                    | 9        | < 1                   | 21                    | 9         | < 1                   | 23                    | 10       |
| 18–24                   | 1                     | 92                    | 11       | < 1                   | 82                    | 12        | 1                     | 50                    | 9        | < 1                   | 54                    | 12        | 1                     | 63                    | 11       |
| 24–34                   | 1                     | 106                   | 14       | < 1                   | 73                    | 16        | 2                     | 40                    | 17       | < 1                   | 60                    | 21        | 2                     | 53                    | 18       |
| 34–44                   | < 1                   | 50                    | 21       | < 1                   | 30                    | 23        | < 1                   | 18                    | 29       | < 1                   | 27                    | 23        | < 1                   | 21                    | 23       |
| 44–54                   | < 1                   | 24                    | 25       | < 1                   | 15                    | 28        | < 1                   | 10                    | 35       | < 1                   | 12                    | 27        | < 1                   | 8                     | 29       |
| 54+                     | < 1                   | 20                    | 30       | < 1                   | 16                    | 33        | < 1                   | 14                    | 47       | 0                     | 12                    | 33        | < 1                   | 11                    | 41       |
| <b>Total</b>            | <b>5</b>              | <b>487</b>            | <b>9</b> | <b>&lt; 1</b>         | <b>419</b>            | <b>10</b> | <b>5</b>              | <b>269</b>            | <b>9</b> | <b>&lt; 1</b>         | <b>320</b>            | <b>10</b> | <b>5</b>              | <b>306</b>            | <b>9</b> |

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**Figure 10** Overview of 25-year forecast of average annual softwood availability



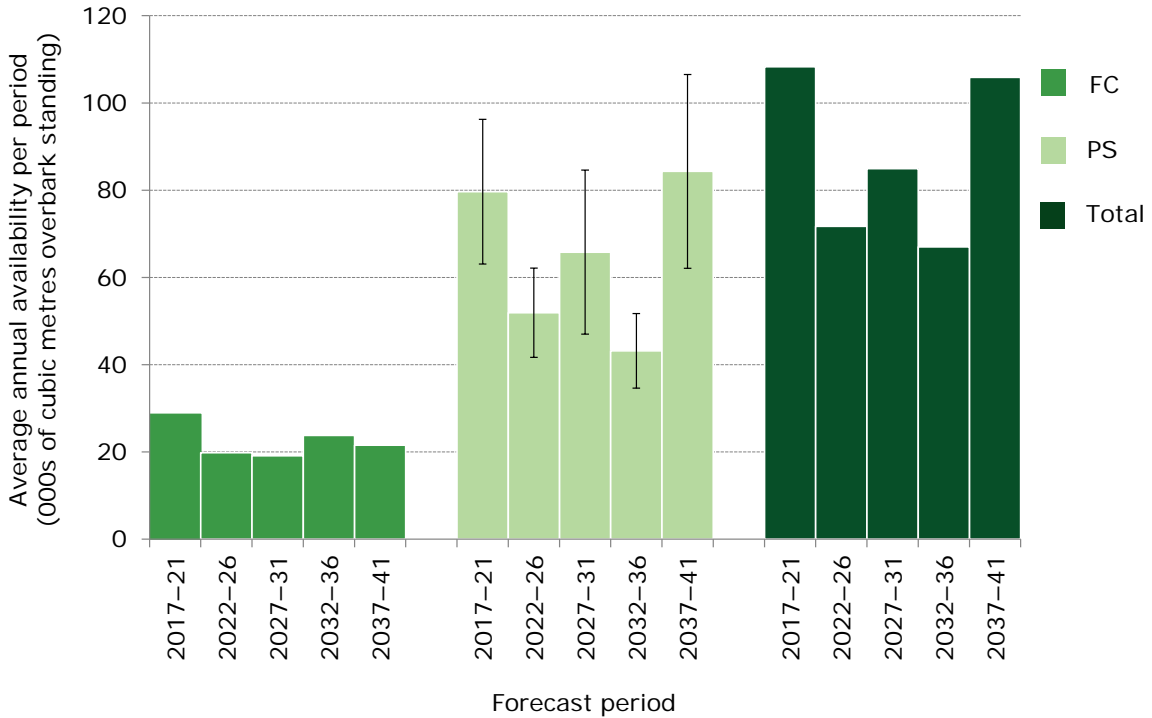
**Figure 11** Overview of 25-year forecast of average annual hardwood availability



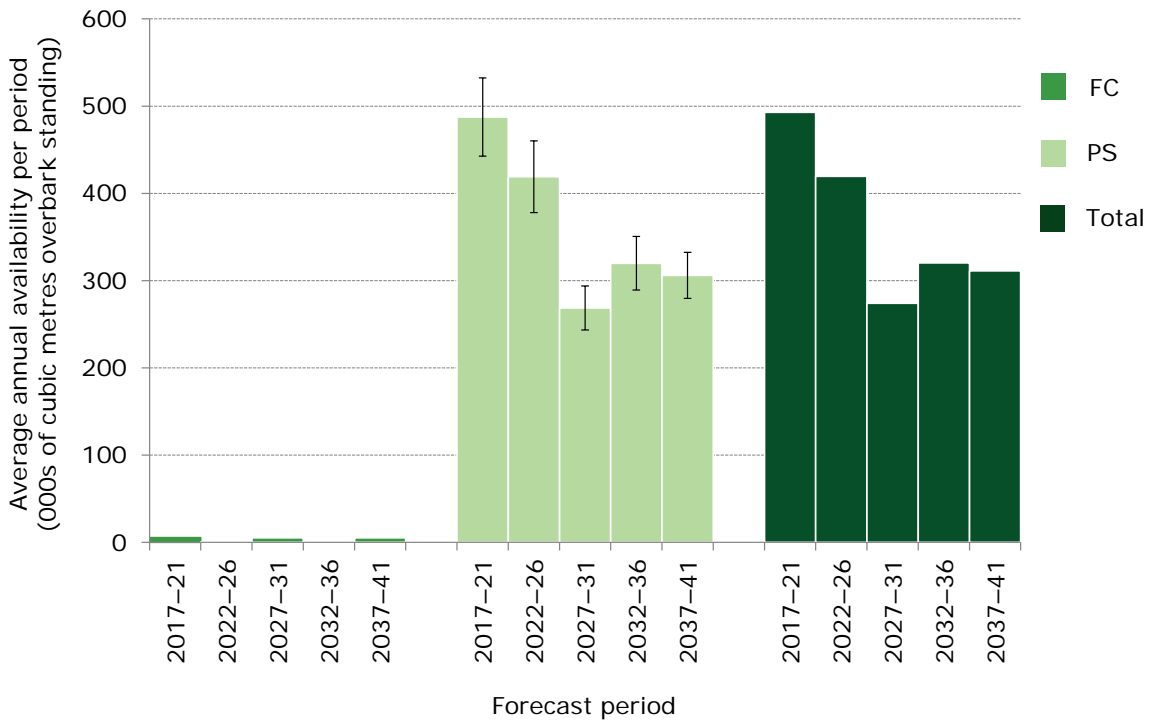


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**Figure 12** 25-year forecast of average annual softwood availability



**Figure 13** 25-year forecast of average annual hardwood availability



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## 25-year forecast of biomass availability

**Table 11** 25-year forecast of biomass availability by period, top-product category and conifer or broadleaves

| Product category    | 2017–21     |                |           | 2022–26    |                |           | 2027–31    |                |           | 2032–36     |                |           | 2037–41     |                |           |
|---------------------|-------------|----------------|-----------|------------|----------------|-----------|------------|----------------|-----------|-------------|----------------|-----------|-------------|----------------|-----------|
|                     | FC          | Private sector |           | FC         | Private sector |           | FC         | Private sector |           | FC          | Private sector |           | FC          | Private sector |           |
|                     | (000 odt)   | (000 odt)      | SE%       | (000 odt)  | (000 odt)      | SE%       | (000 odt)  | (000 odt)      | SE%       | (000 odt)   | (000 odt)      | SE%       | (000 odt)   | (000 odt)      | SE%       |
| <b>All conifers</b> |             |                |           |            |                |           |            |                |           |             |                |           |             |                |           |
| stump               | 0.3         | 0.7            | 21        | 0.2        | 0.4            | 19        | 0.2        | 0.5            | 28        | 0.2         | 0.3            | 18        | 0.2         | 0.6            | 25        |
| stem                | 11.1        | 30.7           | 20        | 7.7        | 19.7           | 19        | 7.3        | 25.8           | 29        | 9.2         | 16.4           | 20        | 8.3         | 33.5           | 27        |
| tips                | 0.4         | 0.6            | 24        | 0.2        | 0.3            | 26        | 0.1        | 0.3            | 25        | 0.1         | 0.3            | 23        | 0.1         | 0.5            | 26        |
| branches            | 2.6         | 5.5            | 23        | 1.7        | 3.5            | 19        | 1.5        | 4.1            | 25        | 1.9         | 2.9            | 18        | 1.6         | 6.7            | 28        |
| <b>Total</b>        | <b>14.3</b> | <b>37.5</b>    | <b>17</b> | <b>9.8</b> | <b>23.9</b>    | <b>16</b> | <b>9.1</b> | <b>30.7</b>    | <b>24</b> | <b>11.4</b> | <b>20.0</b>    | <b>17</b> | <b>10.1</b> | <b>41.3</b>    | <b>22</b> |

| Product category       | 2017–21    |                |          | 2022–26    |                |          | 2027–31    |                |          | 2032–36    |                |          | 2037–41    |                |          |
|------------------------|------------|----------------|----------|------------|----------------|----------|------------|----------------|----------|------------|----------------|----------|------------|----------------|----------|
|                        | FC         | Private sector |          | FC         | Private sector |          | FC         | Private sector |          | FC         | Private sector |          | FC         | Private sector |          |
|                        | (000 odt)  | (000 odt)      | SE%      | (000 odt)  | (000 odt)      | SE%      | (000 odt)  | (000 odt)      | SE%      | (000 odt)  | (000 odt)      | SE%      | (000 odt)  | (000 odt)      | SE%      |
| <b>All broadleaves</b> |            |                |          |            |                |          |            |                |          |            |                |          |            |                |          |
| stump                  | < 0.1      | 6.4            | 8        | < 0.1      | 5.8            | 9        | < 0.1      | 4.0            | 9        | < 0.1      | 4.5            | 8        | < 0.1      | 4.4            | 8        |
| stem                   | 2.9        | 240.6          | 10       | 0.3        | 206.4          | 10       | 2.8        | 134.3          | 10       | 0.2        | 160.7          | 10       | 2.8        | 153.2          | 9        |
| tips                   | 0.2        | 15.9           | 7        | < 0.1      | 14.6           | 9        | < 0.1      | 12.2           | 7        | < 0.1      | 15.1           | 9        | < 0.1      | 12.4           | 9        |
| branches               | 0.8        | 61.2           | 9        | < 0.1      | 52.6           | 9        | 0.7        | 35.4           | 11       | 0.1        | 39.3           | 9        | 0.7        | 37.3           | 9        |
| <b>Total</b>           | <b>4.1</b> | <b>324.1</b>   | <b>7</b> | <b>0.5</b> | <b>279.4</b>   | <b>8</b> | <b>3.7</b> | <b>185.9</b>   | <b>7</b> | <b>0.4</b> | <b>219.6</b>   | <b>8</b> | <b>3.7</b> | <b>207.3</b>   | <b>7</b> |

Note that the stump + stem above refer to the same part of the tree as the volume to 7cm.

## NFI national reports and papers

The principal themes reported on for the 2011 woodland profile and future forecasts are:

- GB 2011 preliminary estimates of broadleaved species
- GB 2011 standing coniferous timber volume
- UK 25-year forecast of softwood availability
- GB 25-year forecast of coniferous standing volume and increment
- Biomass in live woodland trees in Britain
- Carbon in live woodland trees in Britain

The principal themes reported on for the 2012 woodland profile and future forecasts are:

- 50-year forecast of softwood timber availability
- 50-year forecast of hardwood timber availability
- 25-year forecast of softwood availability (2016) update

Each theme has a series of reports, papers and data, tailored for different audiences and uses. All the documents and data can be found on the NFI website

[www.forestresearch.gov.uk/inventory](http://www.forestresearch.gov.uk/inventory).

## Glossary

A glossary of terms is presented in the full suite of forecast reports which can be found at [www.forestresearch.gov.uk/forecast](http://www.forestresearch.gov.uk/forecast).

### Lead author:

J.R. Gilbert

### Reviewed by:

L. Halsall, D. Ross

This report contains a subset of the information provided in the Official Statistics reports *50-year forecast of softwood timber availability* (2014) and *50-year forecast of hardwood timber availability* (2014) publications. More information about Official Statistics and the UK Statistics Authority is available at [www.statisticsauthority.gov.uk](http://www.statisticsauthority.gov.uk)

National Forest Inventory Statistician: David Ross