NFI preliminary estimates of quantities of broadleaved species in British woodlands, with special focus on ash
2  NFI preliminary estimates for broadleaved species and ash
Summary

The National Forest Inventory provides a record of the size and distribution of forests and woodlands in Great Britain and information on key forest attributes. This preliminary National Forest Inventory Report provides estimates of the stocked area, numbers of trees and standing volume in living broadleaved trees within forests and woodlands in Great Britain as at 31 March 2011. The report provides a particular focus on the ash species, expressing estimates of quantities of ash in the context of quantities of all broadleaved species. Information in this report includes estimates for England, Scotland and Wales, and individual regions within England and Scotland, each broken down by Forestry Commission and private sector ownership. Estimates are also provided for individual age and size classes of the broadleaved and ash tree populations. Definitions of terms used in this report can be found in the Glossary at the end of this report.

Key Findings

- The estimated stocked area of broadleaves within Great Britain is 1.3 million hectares of which 142 thousand hectares is ash, or 11% of all broadleaves and 5% of all species (both conifer and broadleaves).
- There are approximately 1.4 billion broadleaved trees in British woodlands of over 0.5 hectares, of which ash trees are estimated to number 126 million.
- In addition, there are an estimated 4.2 billion broadleaved seedlings and saplings in British private sector woodlands, of which ash constitutes an estimated 39%.
- Total broadleaved standing volume in all woodlands of over 0.5 hectares in Great Britain is estimated to be 240 million m$^3$ obs. For England the estimate is 182 million m$^3$; for Scotland 34 million m$^3$; and for Wales 24 million m$^3$.
- Total broadleaved standing volume on the private sector estate is estimated to be 227 million m$^3$ and for the Forestry Commission estate is estimated to be 13 million m$^3$.
- Ash accounts for approximately 14% of total broadleaved standing volume in Great Britain.
- Ash tends to be younger and marginally smaller than broadleaved species as a whole:
  - Trees aged between 20 and 100 years account for most broadleaved standing volume; while for ash very little is over 80 years of age.
  - Most broadleaved standing volume is contained within stands of trees ranging from 10-60 cm mean diameter at breast height (dbh), while for ash standing volume is mostly found in stands with lower mean dbh.
Contents

Summary............................................................................................................3
Key Findings .......................................................................................................3
Contents .............................................................................................................4
List of maps .......................................................................................................5
List of tables .......................................................................................................5
List of figures .....................................................................................................6
Introduction .......................................................................................................8
Description of metrics estimated ........................................................................9
  Stocked area ..................................................................................................9
  Standing broadleaved volume .........................................................................9
  Numbers of trees .........................................................................................10
Data sources .....................................................................................................11
  Forestry Commission sub-compartment database .........................................11
  National Forest Inventory ............................................................................11
Derivation of estimates ....................................................................................12
  Estimates for the Forestry Commission estate ..............................................12
  Estimates for the Private Sector estate .........................................................12
Results .............................................................................................................15
  Broadleaves .................................................................................................23
    Stocked area as at 31 March 2011 ...............................................................26
    Standing volume as at 31 March 2011 .........................................................32
    Number of measurable trees as at 31 March 2011 ....................................38
  Ash ..............................................................................................................44
    Stocked area as at 31 March 2011 ...............................................................47
    Standing volume as at 31 March 2011 .........................................................51
    Number of measurable trees as at 31 March 2011 ....................................55
Seedlings and saplings....................................................................................59
Discussion ........................................................................................................60
Future work ......................................................................................................64
Glossary ...........................................................................................................65
Appendix A: regional tables and figures.............................................................69
  Broadleaves .................................................................................................69
    Stocked area as at 31 March 2011 ...............................................................69
    Standing volume as at 31 March 2011 .........................................................78
    Number of measurable trees as at 31 March 2011 ....................................87
  Ash ..............................................................................................................96
    Stocked area as at 31 March 2011 ...............................................................96
    Standing volume as at 31 March 2011 .........................................................102
    Number of measureable trees as at 31 March 2011 ................................108
Appendix B: species list ..................................................................................114
List of maps

Map 1  Total woodland cover with proportion of ash by NFI region.................... 19
Map 2  Ash distribution (based upon % of ash per region by woodland type) ............. 20
Map 3  Proportion of ash within the upper canopy of each NFI sample plot ................ 21
Map 4  Ecological Site Classification (ESC) of land suitable for ash trees............... 22

List of tables

Table 1  Summary of stocked area of all broadleaved species for GB, countries and NFI regions ............................................................................................................................................. 23
Table 2  Summary of standing volume of all broadleaved species for GB, countries and NFI regions .................................................................................................................................................. 24
Table 3  Summary of numbers of trees of all broadleaved species for GB, countries and NFI regions ............................................................................................................................................. 25
Table 4  Stocked area by principal broadleaved species for GB and countries .......... 27
Table 5  Stocked area by age class of all broadleaved species for GB and countries .... 29
Table 6  Stocked area by mean stand dbh class of all broadleaved species for GB and countries ....................................................................................................................................... 31
Table 7  Standing volume by principal broadleaved species for GB and countries .... 33
Table 8  Standing volume by age class of all broadleaved species for GB and countries .................................................................................................................................................. 35
Table 9  Standing volume by mean stand dbh class of all broadleaved species for GB and countries ............................................................................................................................................... 37
Table 10 Numbers of trees by principal broadleaved species for GB and countries .... 39
Table 11 Numbers of trees by age class of all broadleaved species for GB and countries ............................................................................................................................................. 41
Table 12 Numbers of trees by mean stand dbh class of all broadleaved species for GB and countries .................................................................................................................................................. 43
Table 13 Summary of stocked area of ash for GB, countries and NFI regions .......... 44
Table 14 Summary of standing volume of ash for GB, countries and NFI regions ...... 45
Table 15 Summary of numbers of trees of ash for GB, countries and NFI regions ...... 46
Table 16 Stocked area by age class of ash for GB and countries ................................ 48
Table 17 Stocked area by mean stand dbh class of ash for GB and countries .......... 50
Table 18 Standing volume by age class of ash for GB and countries ......................... 52
Table 19 Standing volume by mean stand dbh class of ash for GB and countries ...... 54
Table 20 Numbers of trees by age class of ash for GB and countries ....................... 56
Table 21 Numbers of trees by mean stand dbh class of ash for GB and countries ...... 58
Table 22 Number of seedlings and saplings in Private Sector NFI mapped woodland for GB and countries .................................................................................................................................................. 59
List of figures

Figure 1  Stocked area of all broadleaved species by ownership and NFI regions........23
Figure 2  Standing volume of all broadleaved species by ownership and NFI regions...24
Figure 3  Numbers of trees of all broadleaved species by ownership and NFI regions..25
Figure 4a Stocked area by principal broadleaved species for GB ...........................26
Figure 4b Stocked area by principal broadleaved species for countries .................26
Figure 5a Stocked area by age class of all broadleaved species for GB ..................28
Figure 5b Stocked area by age class of all broadleaved species for countries ........28
Figure 6a Stocked area by mean stand dbh class of all broadleaved species for GB ...30
Figure 6b Stocked area by mean stand dbh class of all broadleaved species for countries ..................................................30
Figure 7a Standing volume by principal broadleaved species for GB ......................32
Figure 7b Standing volume by principal broadleaved species for countries ..........32
Figure 8a Standing volume by age class of all broadleaved species for GB ............34
Figure 8b Standing volume by age class of all broadleaved species for countries....34
Figure 9a Standing volume by mean stand dbh class of all broadleaved species for GB .................................................................36
Figure 9b Standing volume by mean stand dbh class of all broadleaved species for countries ..................................................................................................................36
Figure 10a  Numbers of trees by principal broadleaved species for GB ................. 38
Figure 10b  Numbers of trees by principal broadleaved species for countries ........ 38
Figure 11a  Numbers of trees by age class of all broadleaved species for GB .......... 40
Figure 11b  Numbers of trees by age class of all broadleaved species for countries ... 40
Figure 12a  Numbers of trees by mean stand dbh class of all broadleaved species for
GB ................................................................................................................... 42
Figure 12b  Numbers of trees by mean stand dbh class of all broadleaved species for
countries .......................................................................................................... 42
Figure 13  Stocked area of ash as a proportion of woodland in NFI regions .......... 44
Figure 14  Standing volume of ash as a proportion of woodland in NFI regions ...... 45
Figure 15  Number of ash trees as a proportion of woodland in NFI regions ......... 46
Figure 16a  Stocked area by age class of ash for GB ....................................... 47
Figure 16b  Stocked area by age class of ash for countries ................................ 47
Figure 17a  Stocked area by mean stand dbh class of ash for GB ...................... 49
Figure 17b  Stocked area by mean stand dbh class of ash for countries ............... 49
Figure 18a  Standing volume by age class of ash for GB .................................. 51
Figure 18b  Standing volume by age class of ash for countries .......................... 51
Figure 19a  Standing volume by stand mean dbh class of ash for GB .................. 53
Figure 19b  Standing volume by stand mean dbh class of ash for countries .......... 53
Figure 20a  Numbers of trees by age class of ash for GB .................................. 55
Figure 20b  Numbers of trees by age class of ash for countries .......................... 55
Figure 21a  Numbers of trees by mean stand dbh class of ash for GB ............... 57
Figure 21b  Numbers of trees by mean stand dbh class of ash for countries .......... 57
Figure A.1  Stocked area by principal broadleaved species for NFI regions ......... 69
Figure A.2  Stocked area by age class of all broadleaved species for NFI regions ... 72
Figure A.3  Stocked area by mean stand dbh class of all broadleaved species for NFI
regions ............................................................................................................. 75
Figure A.4  Standing volume by principal broadleaved species for NFI regions ...... 78
Figure A.5  Standing volume by age class of all broadleaved species for NFI regions .. 81
Figure A.6  Standing volume by mean stand dbh class of all broadleaved species for NFI
regions ............................................................................................................. 84
Figure A.7  Numbers of trees by principal broadleaved species for NFI regions ....... 87
Figure A.8  Numbers of trees by age class of all broadleaved species for NFI regions .. 90
Figure A.9  Numbers of trees by mean stand dbh class of all broadleaved species for
NFI regions ....................................................................................................... 93
Figure A.10 Stocked area by age class of ash for NFI regions ......................... 96
Figure A.11 Stocked area by mean stand dbh class of ash for NFI regions .......... 99
Figure A.12 Standing volume by age class of ash for NFI regions ....................... 102
Figure A.13 Standing volume by mean stand dbh class of ash for NFI regions .... 105
Figure A.14 Numbers of trees by age class of ash for NFI regions .................... 108
Figure A.15 Numbers of trees by mean stand dbh class of ash for NFI regions .... 111
Introduction

National forest inventories are carried out by the Forestry Commission (FC) to provide accurate, up-to-date information about the size, distribution, composition and condition of the forests and woodlands in Great Britain (GB). In this report forests and woodlands are defined as land predominately covered in trees with a minimum area of 0.5 hectares and minimum width of 20 metres. (See the Glossary for a fuller definition.) This information is essential for developing and monitoring policies and guidance to support sustainable forest management. The current National Forest Inventory (NFI), which began in 2009 (the first cycle is due for completion in 2014), is a multi-purpose operation that has involved the production of a forest and woodland map for GB and a continuing programme of field surveys of the mapped forest and woodland areas. Information and data collected by the National Forest Inventory will be used for a number of purposes, including current estimates and 25-year forecasts of forest metrics such as:

- Standing volume
- Stocked areas
- Numbers of trees
- Timber availability
- Tree growth and increment
- Carbon storage
- Biomass

Estimates of aspects of the biodiversity and social value of forests and woodlands will also be provided by the NFI in future reports. Further information on this and other National Forest Inventory outputs is available from [www.forestry.gov.uk/inventory](http://www.forestry.gov.uk/inventory).

It was planned for estimates of stocked area and standing volume of broadleaved species to be published in 2013 by NFI; however, with the advent of the *Chalara fraxinea* outbreak it has been decided to publish preliminary results for broadleaves based upon the survey to date, to enable estimates of quantities of ash to be assessed in the context of broadleaved species as a whole.
Description of metrics estimated

Stocked area

The NFI woodland map provides information on the spatial location and extent of woodland. Summing the areas of woodland defined in the map will provide a gross estimate of woodland areas in GB, countries and regions. The NFI reports on woodland area statistics published in May 2011 www.forestry.gov.uk/forestry/infd-8eyjwf give an estimated total area of woodland of 2.98 million hectares, derived from the 2010 version of the NFI woodland map. This was an estimate of gross forest area, and included clearfell sites, assumed woodland area (according to grant scheme records), and integral areas of open space of less than 0.5 hectares.

Estimates of stocked area represent the area of woodland currently covered by trees of the relevant species or group of species. Total stocked area across all species (inclusive of both conifer and broadleaves) will therefore differ from total woodland area as estimated from the woodland map, since it will not include current areas of clearfell and most areas of open space of less than 0.5 hectares. On the other hand, it may include estimates derived from areas of woodland located outside the NFI woodland map.

Care needs to be taken in the interpretation of stocked areas of individual species, since many woodlands contain an intimate mix of species, and in such cases procedures are used to “share” the total area covered by the woodland into the areas occupied by its constituent species. The total stocked area of a given species does not therefore conceptually represent discrete areas of land covered by pure stands of the species, but to a greater or lesser extent may represent the sum of shares of areas of mixed woodland allocated to it by these procedures.

Standing broadleaved volume

The last direct estimate of standing broadleaved volume in GB was published in 1982 (Forestry Commission Bulletin 63: Census of woodland and trees). This present report, in addition to providing the latest overall estimates of total volume, gives a breakdown of volume by species group, age class and size class, and by country and National Forest Inventory regions. NFI region boundaries can be seen on Map 1.

A forecast of future broadleaved growth, timber availability and standing broadleaved volumes from GB forests is planned to be published in the second half of 2013.

Standing broadleaved volume is defined as the live stemwood and useable branchwood of broadleaves to a minimum of 7 cm top diameter. It excludes roots, below-ground stump material, small branches, foliage and deadwood. For private sector woodland
only, it also excludes standing volume in trees in woodlands of less than 0.5 hectares in extent. See the Glossary for further explanations of the terms used in this report.

Numbers of trees

Estimates are provided in this report of the current numbers of live broadleaved and ash trees in GB woodland. In order to compile such estimates, a minimum tree size needs to be defined. Due to the nature of the data available on the two forest sectors in GB, the estimates for FC woodland and private sector woodland in this report differ with respect to these cut-off sizes. For the private sector, a live tree is considered countable once it has grown to a size at which its diameter at breast height (dbh – see the Glossary) has reached at least 4 centimetres, while for the FC estate, the estimates represent trees that have achieved a minimum size of 7 centimetres dbh. Therefore, for the FC estate, the estimated numbers do not include trees in the size range of 4-6 cm dbh. Windblown trees are included in these estimates, but not standing dead trees. It may be noted that broadleaves on the FC estate are a relatively minor proportion of all broadleaves in GB, so the missing estimated count of trees in the size range of 4-6 centimetres dbh is unlikely to be a large proportion of the totals across both sectors.

For the private sector only, this report also provides preliminary estimates of numbers of saplings and seedlings of all broadleaved species and of ash. Seedlings are defined as young trees of up to 0.5 metres in height and saplings are defined as young trees of at least 0.5 metres in height but less than 4 centimetres dbh. The estimates provided in this report cover numbers of such plants found on non-FC land that is mapped as woodland in the 2011 NFI woodland map.

Note that for the purposes of this report, measurable stems arising from coppice stools are counted as separate trees when calculating the estimated tree numbers. The use of this definition varies from the convention of regarding a single coppice stool with many measurable stems as a single tree. This will not impact upon the stocked area and standing volume estimates, but will affect the estimates of tree numbers for those species that tend to be coppiced, such as sweet chestnut and hazel.

For information on the amount and distribution of ash trees outside NFI woodland see the Countryside Survey Report (Distribution of ash trees (Fraxinus excelsior) in Countryside Survey data) at http://www.countrysidesurvey.org.uk/. This report includes small copses of less than 0.5 hectares, linear features containing trees less than 5 metres in width (including hedgerows and lines of trees) and individual trees (including some veterans). The extent of the top ten broadleaved tree species, including ash, in copses less than 0.5 ha is included in the Countryside Survey report.
Data sources

Forestry Commission sub-compartment database

The Sub-compartment database (SCDB) is a record of all land managed by the Forestry Commission. Each stand of trees is represented spatially, together with information on individual stand characteristics (for example species, planting year, spacing and yield class) which is periodically updated. As new surveys of stands are conducted (e.g. for operational purposes), survey results are also recorded against the stands. In addition, the SCDB contains details of how the stands are being managed – in particular, the planned frequency and type of thinning operations and a ‘due date’ for felling.

National Forest Inventory

The National Forest Inventory is composed of two elements: a woodland map and a field survey. The woodland map covers all forests and woodlands over 0.5 hectares with a minimum of 20% canopy cover (or the potential to achieve it), including new planting, clearfelled sites and restocked sites. It is based upon 25 cm resolution colour aerial photography for England and Scotland and 40 cm resolution aerial photography for Wales. The map was validated and updated using satellite imagery (available up to 2009), which gave an independent crosscheck of woodland present. Satellite imagery was also used to identify areas of recently felled forests and woodland.

Field survey work is used to refine the map-based estimates of woodland and clearfelled areas and to measure detailed aspects of the forest. Field surveys are being carried out between 2009 and 2014 to estimate standing volume, stocked areas, numbers of trees and other forest metrics. This involves the ground surveying of one-hectare sample squares that are partially or entirely covered by forest, including clearfelled areas and areas of assumed woodland, according to the 2010 NFI woodland map. Further details of the mapping work and the derivation of forested areas can be found in the 2010 Woodland Area reports at www.forestry.gov.uk/inventory.
Derivation of estimates

The estimates in this report have been derived separately for the Forestry Commission estate and for the private sector estate. They are based on the same principles but use different data sources. For the Forestry Commission estate, information on woodland area and woodland characteristics has been extracted from the Forestry Commission’s long-established Sub-compartment database. For the private sector estate, the estimates have been derived from results obtained to date from the National Forest Inventory.

Estimates for the Forestry Commission estate

Information from the SCDB was used to estimate standing volume, stocked areas and numbers of trees at the reference date of 31 March 2011 on a stand-by-stand basis. These were then aggregated to produce the estimated totals across a defined geographic area for particular types of stand (classified, for example, by species, tree age or tree size class). For each stand, if an operational survey had been carried out close to the reference date, information from that survey was used to estimate the current state of the stand. Otherwise, projected estimates were made of the current state, normally involving the application of standard Forestry Commission growth and yield models that take into account the past management of the stand. Estimates of current standing volume, stocked areas and numbers of trees of greater than or equal to 7 cm dbh are outputs of this stand modelling process.

Individual stand records in the SCDB express areas and other stand characteristics in terms of gross forested areas, including unstocked areas occupied by roads, rides, integral open space and other small non-forested features within the mapped area of the stand. In order to account for this, a gross to net area conversion factor (usually 15%) is applied to the area of the stand and, through this, to the derived stand characteristics, including standing volumes, stocked areas and numbers of trees.

Because the resulting estimates are based on a full record of data from the SCDB, there is no sampling error involved in the estimation process, therefore no sampling standard error is calculated. However, the nature of the estimation process within each individual stand does introduce estimation error, with variable contributions from stand to stand, due to the type, age and accuracy of the information held in the SCDB. These estimation errors have not been quantified in this report.

Estimates for the Private Sector estate

Forests on the National Forest Inventory woodland map were first separated into Forestry Commission estate and private sector estate holdings using Forestry
Commission spatial records of management boundaries. Estimates of standing volume, stocked areas and numbers of trees on the private sector estate used a woodland area obtained from the map updated to 31 March 2011. This map contains a larger area (around 2.2 million hectares) of private sector woodland than has been estimated by previous forest inventories.

For the field survey work, initial effort was directed towards private sector sites that, according to the map, mostly contained areas of coniferous woodland. However, due to the mixed nature of woodlands, a large body of broadleaved data was also collected as a consequence of this process. Additionally, for the purpose of operational efficiency in the field survey operation, sites on private sector land that, according to the NFI woodland map, contained areas of broadleaved woodland, were also surveyed through this period. As a result, 2,971 sample squares were surveyed that contained broadleaved species on private sector woodland and the resulting data were used to produce the results in this report. The sample squares used in these estimates represent a sub-sample of a planned 15,000 statistically representative squares covering all GB woodland that will be surveyed during this first cycle of the National Forest Inventory survey (due for completion in 2014). The updated report planned for release in 2013 is expected to be based on results from 8,000 sample squares covering both conifer and broadleaved mapped areas and will enable the production of more precise estimates using a more balanced and representative sample of private sector broadleaved woodland.

At each sample square, the forest was stratified into different woodland types or stands, where information on species, age, management and a range of other parameters was collected. An average of around two stands per square was found, resulting in 5,453 stands containing broadleaves on private sector woodland being assessed. Within each stand, the most common survey procedure used field-based computer systems to locate two or three 100 m² (0.01 hectare) circular plots, within which all trees of greater than or equal to 4 cm diameter at breast height (dbh) were mapped, species identified, diameters measured and heights and crown dimensions of a sample of trees were measured and recorded. Results from the sample plots were scaled up to provide estimated characteristics of the whole stand. These estimated characteristics included, for each individual species present in the stand, the standing volume, stocked area, and number of trees. In a minority of cases, stand estimates were based on visual rather than on measured assessments, and in some cases the whole stand was assessed, rather than that part falling within sample plots. Full details of the field sampling procedures used can be found in the NFI Field Survey Manual [www.forestry.gov.uk/forestry/infd-8rbp8t](http://www.forestry.gov.uk/forestry/infd-8rbp8t).

A total of 106,070 broadleaved trees in private sector woodland were measured for dbh, and from subsets of these, 28,240 heights and 19,480 crown diameters were also measured. The resulting data, along with visual assessments on individual stands, were
used to derive the estimates for private sector broadleaved woodland contained in this report.

All squares were marked on the ground with metal pegs and GPS data of their location was recorded for checking and future measurement. At least 7% were re-measured by an independent quality assurance team to ensure standards. Further details of the methodology can be found in technical documentation published on the NFI website www.forestry.gov.uk/forestry/infd-8rbp8t.

The results for individual surveyed squares were aggregated and scaled up to the areas identified by the 2011 NFI woodland map, using standard statistical survey methodology, to produce the estimates in this report. This included scaling up results for woodland found within the sample squares in areas of the square adjacent to but outside the areas identified as woodland on the NFI woodland map. Along with these estimates, associated sampling standard errors have also been calculated and reported. The sampling standard error will account for random variation arising from the selection of the sample, and random measurement errors, but not from any systematic biases in the field measurements. However, because of the quality assurance process it is thought unlikely that any substantial biases of this nature are present in the survey data. The sources of error that are not accounted for in the reported standard errors will be those deriving from use of empirical models to estimate standing volumes from the recorded survey data and, in some cases, the use of Forestry Commission growth and yield models, where these are used to project the results from an earlier survey assessment date to 31 March 2011 – the reference date used for the estimates in this report.

In addition to the sampling procedures used to quantify the forest metrics for trees of greater than or equal to 4 centimetres dbh, in all accessible stands a line transect sample of ten metres in length was randomly located in each stand. Along this line transect, numbers of seedlings classified by species found within 0.5 metres distance from the transect line, and numbers of saplings, also classified by species, within one metre of the transect line, were observed and recorded. These observations have been scaled up to provide estimates of numbers of seedlings and saplings present in each surveyed stand, and these in turn have been scaled up to total forest areas in the NFI map to provide the estimated numbers of seedlings and saplings present in private sector woodland that are quoted in this report.
Results

As an introduction to the information in this report on the distribution and extent of ash in British woodlands, four maps are first provided to show aspects of the present spatial distribution of the species and its potential distribution. Map 1 gives the proportion of ash found within all woodlands within each National Forest Inventory region. Map 2 shows the mean amount of ash found within three woodland types identified within the National Forestry Inventory map; broadleaved, conifer and young trees. Map 3 shows the proportion of ash found within the upper canopy of each 1 hectare National Forest Inventory sample square. The size of the squares has been exaggerated for thematic purposes.

Map 4 shows the areas of Great Britain that are assessed as suitable for growth of ash according to the Ecological Site Classification (ESC) model*. This uses site values of four climatic variables (temperature, moisture deficit, windiness and continentality), soil moisture and soil nutrient regimes. The assessment of site suitability for ash shown in Map 4 uses estimated values of each of these conditions together with information on slope form.

These maps show the relatively high prevalence of ash in woodlands in the southern part of Great Britain, with high concentrations in the south of England, and also a strong belt of ash running through the English midlands. Ash is also present, but in lower concentrations, in Wales and in East England, but becomes less prevalent as a component of woodlands in the more northern part of Great Britain. The proportion of ash as a component of woodland becomes lower in the northern regions of England and declines still further into and through Scotland, becoming only a very small component of woodland in North Scotland. A similar pattern can be seen in the potential distribution of ash according to the ESC model (Map 4), but with some noticeable variations from the patterns in Maps 1 to 3.

The maps are followed by the main results of the report, presented in both tabular and graphical form. In most tables, estimates are presented separately for the Forestry Commission and the private sector, and for the total across both sectors. Estimates for the private sector are shown with associated sampling standard errors deriving from the sample used in the NFI field survey.

The first main sub-section of this Results section provides details of the results for broadleaves as a whole. Tables and Figures 1 to 3 provide summaries by country and NFI region of the three quantities analysed in this report, being stocked area, standing

* Details of the ESC system can be found in “An Ecological Site Classification for Forestry in Great Britain: Bulletin 124” by D.G. Pyatt, D. Ray and J. Fletcher (2001), Forestry Commission, Edinburgh.
volume and number of trees respectively. Tables and Figures 4 to 12 then provide separate breakdowns of each of these quantities at a country and GB level into values for principal groups of broadleaved species, into values within age ranges of trees across all broadleaved species, and into size classes, based on mean stand dbh, also across all broadleaved species.

The second sub-section then concentrates on estimates for ash. Tables and Figures 13 to 15 provide summaries by country and NFI region of estimates of total quantities of ash in terms of stocked area, standing volume and number of trees. These estimates are also expressed as percentages within each country and NFI region of all broadleaves and of all species. Tables and Figures 16 to 21 provide separate breakdowns of each of these quantities at a country and GB level into values within age ranges and within size classes, with the latter based on mean stand dbh.

Finally, Table 22 provides estimates of the number of seedlings and saplings of all broadleaved species and of ash in private sector woodland at a country and GB level. The estimates for ash are expressed in absolute terms and as percentages of numbers of all broadleaves.

Equivalent tables and figures at an NFI region level to those in Tables and Figures 4 to 12 at the country and GB level, covering breakdowns of broadleaves estimates, can be found in Appendix A, in Tables and Figures A.1 to A.9. Similar breakdowns at NFI region level to Tables and Figures 16 to 21 at the country and GB level (for ash) can also be found in Appendix A in Tables and Figures A.10 to A.15. It should be noted that some of the estimates of private sector broadleaves and ash at NFI region level have high relative standard errors. Particularly high standard errors indicate very low precision of the estimates they relate to. When this is the case, the private sector estimates to which these standard errors relate, and the estimates of the total across both sectors that incorporate these private sector estimates, should be used with caution.

The list of principal species used in the breakdown of all broadleaves into species groups represent the ‘top ten’ species as determined by relative stocked area at a British level. All species that represent over 1% of broadleaved stocked area are within this set and all species that represent less than 1% of broadleaved stocked area are categorised as ‘other broadleaves’. For some of the principal species, several sub species of the same genus have been grouped together for reporting purposes. A full list of the species identified within the National Forest Inventory and how these have been grouped within these results can be found in Appendix B.

The figures in the tables have been independently rounded, so may not add to the totals shown. Sampling standard errors (SE) attached to private sector estimates are expressed in relative terms (%) to the right of the relevant estimate.
As noted in the description of stocked areas, many individual woods and stands within woods are composed of trees of many species, ages and sizes. Such mixed populations within individual stands have been stratified, characterised and aggregated prior to analysis and presentation in the separate categories presented. The results as presented may give the impression of woodlands that are physically sub-divided into stands of even age and species, whereas in reality most broadleaved woods form a much more complex structure. The final report, due for publication in 2013, will provide some metrics to quantify such complexity and within stand variation, such as types of species mixture, storey structure and within stand age class structure.

This structure of woodlands has particular implications with regard to reported size classes. For reporting broadleaved and ash woodlands broken down into separate size classes, the mean dbh of the stand (or component of a stand) has been used to classify the whole stand or component. Very often, there will be a wide range of values of dbh for individual trees within such components, so a single value of mean dbh will not properly characterise the distribution of tree sizes within the component. For this reason, although the breakdown of a tree population by mean dbh class might be used as a proxy for the distribution of individual sizes of trees, it will not always follow that the distribution of individual tree sizes in the same population will exactly follow this pattern.

There will also be a similar, but less pronounced, effect of this sort in the classification of tree populations into age classes. In some instances, a component of trees will have been assigned a single planting year (which determines age at the reference date of 31 March 2011) but the individual trees within the component, particularly if they have been established from natural regeneration, may have originally established themselves over a range of years. However, of greater importance in the interpretation of the reported age class distributions is that planting years and ages of stands in NFI (but less so in SCDB data) are mainly those that have been estimated by the surveyor at the time of assessment of the stand. These surveyor assessments have been statistically adjusted, using information on actual planting years retrieved for a sample of stands, but these adjusted estimates of age can still vary considerably from actual stand age. This should therefore be borne in mind in the interpretation of the age class distributions reported in these results.

In the breakdowns of numbers of trees by dbh class and by age class, the estimates relate only to counts of trees of measurable size (4 cm dbh for the private sector and 7 cm dbh for the FC estate). In the smallest mean dbh class of 0-7 centimetres the estimated numbers are consequently low (but mostly non-zero, because stands with a mean dbh of 7 cm or less may still have some trees within them of at least 7 cm dbh). Also, for the youngest age class of 0-10 years old there are often few trees that will have
reached these minimum sizes. For the private sector, the estimates of numbers of seedlings and saplings reported in Table 22 give an indication of the scale of the total number of trees of smaller sizes. If these were included in the main tables of numbers of trees they would fall almost entirely within the 0-7 cm dbh size class and mostly within the 0-10 year age class.
Map 1  Total woodland cover with proportion of ash by NFI region

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Map 2  Ash distribution (based upon % of ash per region by woodland type)
NFI Preliminary Report

Map 3  Proportion of ash within the upper canopy of each NFI sample plot

Contains Ordnance Survey data ©
Crown copyright and database rights [2012]
Map 4 Ecological Site Classification (ESC) of land suitable for ash trees

NFI preliminary estimates for broadleaved species and ash
NFI Preliminary Report

Broadleaves

**Figure 1** Stocked area of all broadleaved species by ownership and NFI regions

**Table 1** Summary of stocked area of all broadleaved species for GB, countries and NFI regions

<table>
<thead>
<tr>
<th>Country/Region</th>
<th>FC area (000 ha)</th>
<th>Private sector area (000 ha)</th>
<th>SE%</th>
<th>Total area (000 ha)</th>
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</thead>
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<tr>
<td><strong>England</strong></td>
<td>50.0</td>
<td>835.8</td>
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<td>885.8</td>
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<td>65.6</td>
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<td>68.3</td>
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<td>33.8</td>
<td>6</td>
<td>36.2</td>
</tr>
<tr>
<td>Yorkshire and Humber</td>
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<td>3</td>
<td>84.1</td>
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<td>237.5</td>
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23 NFI preliminary estimates for broadleaved species and ash
**Figure 2** Standing volume of all broadleaved species by ownership and NFI regions

![Graph showing standing volume by ownership and NFI regions](image)

<table>
<thead>
<tr>
<th>Country/Region</th>
<th>FC Total volume (000 m$^3$ obs)</th>
<th>Private sector volume (000 m$^3$ obs)</th>
<th>SE%</th>
<th>Total volume (000 m$^3$ obs)</th>
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</table>
Figure 3 Numbers of trees of all broadleaved species by ownership and NFI regions

Table 3 Summary of numbers of trees of all broadleaved species for GB, countries and NFI regions

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<th>Country/Region</th>
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<th>Private sector number (millions)</th>
<th>Total number (millions)</th>
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<td>103.8</td>
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<td>South East and London</td>
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<td>North Scotland</td>
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</tr>
<tr>
<td></td>
<td>13.9</td>
<td>126.1</td>
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<tr>
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NFI preliminary estimates for broadleaved species and ash
Stocked area as at 31 March 2011

Figure 4a  Stocked area by principal broadleaved species for GB

Figure 4b  Stocked area by principal broadleaved species for countries

26 NFI preliminary estimates for broadleaved species and ash
## Table 4  Stocked area by principal broadleaved species for GB and countries

<table>
<thead>
<tr>
<th>Principal species</th>
<th>FC area (000 ha)</th>
<th>Private sector area (000 ha)</th>
<th>Total SE% area (000 ha)</th>
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<td><strong>England</strong></td>
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<td></td>
<td></td>
</tr>
<tr>
<td>All broadleaves</td>
<td>50.0</td>
<td>835.8</td>
<td>885.8</td>
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<tr>
<td>Oak</td>
<td>15.5</td>
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<td>178.5</td>
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<tr>
<td>Beech</td>
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<td>80.7</td>
</tr>
<tr>
<td>Sycamore</td>
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<td>80.8</td>
<td>81.8</td>
</tr>
<tr>
<td>Ash</td>
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<td>27.8</td>
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<td>69.1</td>
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<td>49.4</td>
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<td>Alder</td>
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<tr>
<td>Other broadleaves</td>
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<td><strong>Scotland</strong></td>
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</tr>
<tr>
<td>All broadleaves</td>
<td>27.3</td>
<td>237.5</td>
<td>264.9</td>
</tr>
<tr>
<td>Oak</td>
<td>2.5</td>
<td>24.1</td>
<td>26.6</td>
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<tr>
<td>Beech</td>
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<td>14.3</td>
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<td>Sycamore</td>
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<td>17.9</td>
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<td>Ash</td>
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<td>Birch</td>
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<td>Hawthorn</td>
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<td>6.0</td>
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<td>Alder</td>
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<td>14.2</td>
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<td>Willow</td>
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<td>8.6</td>
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<td>Other broadleaves</td>
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<td>1,276.9</td>
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NFI preliminary estimates for broadleaved species and ash
Figure 5a  Stocked area by age class of all broadleaved species for GB

Figure 5b  Stocked area by age class of all broadleaved species for countries

NFI preliminary estimates for broadleaved species and ash
### Table 5
Stocked area by age class of all broadleaved species for GB and countries

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<tr>
<th>Age class (years)</th>
<th>FC area (000 ha)</th>
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**Figure 6a** Stocked area by mean stand dbh class of all broadleaved species for GB

![Graph showing stocked area by mean stand dbh class of all broadleaved species for GB.](image)

**Figure 6b** Stocked area by mean stand dbh class of all broadleaved species for countries

![Graph showing stocked area by mean stand dbh class of all broadleaved species for countries.](image)

30 NFI preliminary estimates for broadleaved species and ash
Table 6  Stocked area by mean stand dbh class of all broadleaved species for GB and countries

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Standing volume as at 31 March 2011

**Figure 7a** Standing volume by principal broadleaved species for GB

![Pie chart showing standing volume by principal broadleaved species for GB.]

**Figure 7b** Standing volume by principal broadleaved species for countries

![Bar chart showing millions of cubic meters of standing volume by broadleaved species for England, Scotland, and Wales.]

32  NFI preliminary estimates for broadleaved species and ash
### Table 7 Standing volume by principal broadleaved species for GB and countries

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</table>
Figure 8a  Standing volume by age class of all broadleaved species for GB

Figure 8b  Standing volume by age class of all broadleaved species for countries
## Table 8  Standing volume by age class of all broadleaved species for GB and countries

<table>
<thead>
<tr>
<th>Age class (years)</th>
<th>FC Total volume (000 m³ obs)</th>
<th>Private sector Total volume (000 m³ obs)</th>
<th>Total volume (000 m³ obs)</th>
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<td>volume</td>
<td>volume</td>
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<td>(000 m³ obs)</td>
<td>(000 m³ obs)</td>
<td>(000 m³ obs)</td>
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<td>34,400</td>
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<td><strong>Total</strong></td>
<td><strong>8,147</strong></td>
<td><strong>173,619</strong></td>
<td><strong>181,766</strong></td>
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<tr>
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<td><strong>23,953</strong></td>
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<td><strong>227,061</strong></td>
<td><strong>239,765</strong></td>
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</table>
Figure 9a  Standing volume by mean stand dbh class of all broadleaved species for GB

![Graph showing standing volume by mean stand dbh class of all broadleaved species for GB.]

Figure 9b  Standing volume by mean stand dbh class of all broadleaved species for countries

![Graph showing standing volume by mean stand dbh class of all broadleaved species for countries.]

36  NFI preliminary estimates for broadleaved species and ash
## Table 9  Standing volume by mean stand dbh class of all broadleaved species for GB and countries

<table>
<thead>
<tr>
<th>Mean stand DBH (cm)</th>
<th>FC volume (000 m$^3$ obs)</th>
<th>Private sector volume (000 m$^3$ obs)</th>
<th>Total volume (000 m$^3$ obs)</th>
<th>SE%</th>
</tr>
</thead>
<tbody>
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<td>Private sector</td>
<td>Total</td>
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</tr>
<tr>
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<td>320</td>
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<td><strong>Total</strong></td>
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<td><strong>173,619</strong></td>
<td><strong>181,766</strong></td>
<td><strong>2</strong></td>
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</tbody>
</table>

Scotland

<table>
<thead>
<tr>
<th>Mean stand DBH (cm)</th>
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<th>Private sector volume (000 m$^3$ obs)</th>
<th>Total volume (000 m$^3$ obs)</th>
<th>SE%</th>
</tr>
</thead>
<tbody>
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<td><strong>Total</strong></td>
<td><strong>3,150</strong></td>
<td><strong>30,896</strong></td>
<td><strong>34,046</strong></td>
<td><strong>6</strong></td>
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</table>

Wales

<table>
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<th>Private sector volume (000 m$^3$ obs)</th>
<th>Total volume (000 m$^3$ obs)</th>
<th>SE%</th>
</tr>
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<td>FC</td>
<td>Private sector</td>
<td>Total</td>
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<tr>
<td>0-7</td>
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<td>722</td>
<td>62</td>
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<tr>
<td><strong>Total</strong></td>
<td><strong>1,408</strong></td>
<td><strong>22,545</strong></td>
<td><strong>23,953</strong></td>
<td><strong>7</strong></td>
</tr>
</tbody>
</table>

Great Britain

<table>
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<tr>
<th>Mean stand DBH (cm)</th>
<th>FC volume (000 m$^3$ obs)</th>
<th>Private sector volume (000 m$^3$ obs)</th>
<th>Total volume (000 m$^3$ obs)</th>
<th>SE%</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>FC</td>
<td>Private sector</td>
<td>Total</td>
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<tr>
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<td><strong>227,061</strong></td>
<td><strong>239,765</strong></td>
<td><strong>2</strong></td>
</tr>
</tbody>
</table>
Number of measurable trees as at 31 March 2011

**Figure 10a** Numbers of trees by principal broadleaved species for GB

![Pie chart showing the distribution of trees by species.]

- Oak: 16%
- Beech: 9%
- Sycamore: 5%
- Ash: 3%
- Birch: 4%
- Sweet chestnut: 7%
- Hazel: 5%
- Hawthorn: 4%
- Alder: 5%
- Willow: 16%
- Other broadleaves: 18%

**Figure 10b** Numbers of trees by principal broadleaved species for countries

![Bar chart showing the number of trees by country and species.]

- England FC: 900 million trees
- England PS: 500 million trees
- Scotland FC: 700 million trees
- Scotland PS: 400 million trees
- Wales FC: 200 million trees
- Wales PS: 100 million trees

NFI preliminary estimates for broadleaved species and ash
Table 10  Numbers of trees by principal broadleaved species for GB and countries

<table>
<thead>
<tr>
<th>Principal species</th>
<th>FC number of trees (millions)</th>
<th>Private sector number of trees (millions)</th>
<th>SE% number of trees (millions)</th>
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<tr>
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<td>Ash</td>
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<td>Sweet chestnut</td>
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<tr>
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<td>Other broadleaves</td>
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Figure 11a  Numbers of trees by age class of all broadleaved species for GB

Figure 11b  Numbers of trees by age class of all broadleaved species for countries
**Table 11** Numbers of trees by age class of all broadleaved species for GB and countries

<table>
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<th>Age class (years)</th>
<th>FC number of trees (millions)</th>
<th>Private sector number of trees (millions)</th>
<th>SE%</th>
<th>Total number of trees (millions)</th>
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Figure 12a  Numbers of trees by mean stand dbh class of all broadleaved species for GB

Figure 12b  Numbers of trees by mean stand dbh class of all broadleaved species for countries
Table 12  Numbers of trees by mean stand dbh class of all broadleaved species for GB and countries

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<th>Total</th>
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<td>236.7</td>
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</tr>
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<td>80+</td>
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</table>

NFI preliminary estimates for broadleaved species and ash
Ash

Figure 13 Stocked area of ash as a proportion of woodland in NFI regions

Table 13 Summary of stocked area of ash for GB, countries and NFI regions

<table>
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<th>Country/Region</th>
<th>Stocked area of ash</th>
<th>Stocked area of all broadleaves and all species</th>
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</thead>
<tbody>
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<td></td>
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<td>Private sector</td>
</tr>
<tr>
<td></td>
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<td>area (000 ha)</td>
</tr>
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<td>4.4</td>
</tr>
<tr>
<td>Yorkshire and Humber</td>
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<td>8.6</td>
</tr>
<tr>
<td>East Midlands</td>
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<td>11.0</td>
</tr>
<tr>
<td>East England</td>
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<td>11.1</td>
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</tr>
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<td>0.2</td>
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<tr>
<td>North Scotland</td>
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</tr>
<tr>
<td>North East Scotland</td>
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</tr>
<tr>
<td>East Scotland</td>
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<td>9.0</td>
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</table>

44  NFI preliminary estimates for broadleaved species and ash
### Figure 14
Standing volume of ash as a proportion of woodland in NFI regions

![Graph showing percentage standing volume of ash](image)

### Table 14
Summary of standing volume of ash for GB, countries and NFI regions

<table>
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<tr>
<th>Country/Region</th>
<th>Standing volume of ash</th>
<th>Standing volume of all broadleaves and all species</th>
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<td>volume (000 m³ obs)</td>
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</table>
Figure 15 Number of ash trees as a proportion of woodland in NFI regions

Table 15 Summary of numbers of trees of ash for GB, countries and NFI regions

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<th>Number of trees of all broadleaves and all species</th>
</tr>
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<td>Private sector</td>
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<td></td>
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<td>number of trees (millions)</td>
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46 NFI preliminary estimates for broadleaved species and ash
Stocked area as at 31 March 2011

**Figure 16a** Stocked area by age class of ash for GB

**Figure 16b** Stocked area by age class of ash for countries

NFI preliminary estimates for broadleaved species and ash
### Table 16  Stocked area by age class of ash for GB and countries

<table>
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<tr>
<th>Age class (years)</th>
<th>FC Total area (000 ha)</th>
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<th>SE% Total area (000 ha)</th>
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Figure 17a Stocked area by mean stand dbh class of ash for GB

Figure 17b Stocked area by mean stand dbh class of ash for countries

49 NFI preliminary estimates for broadleaved species and ash
### Table 17  Stocked area by mean stand dbh class of ash for GB and countries

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<th>Mean stand DBH (cm)</th>
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<th>Private sector area (000 ha)</th>
<th>SE% area (000 ha)</th>
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Standing volume as at 31 March 2011

**Figure 18a** Standing volume by age class of ash for GB

**Figure 18b** Standing volume by age class of ash for countries

51 NFI preliminary estimates for broadleaved species and ash
**Table 18** Standing volume by age class of ash for GB and countries

<table>
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**Figure 19a** Standing volume by stand mean dbh class of ash for GB

![Graph showing standing volume by stand mean dbh class of ash for GB](image)

**Figure 19b** Standing volume by stand mean dbh class of ash for countries

![Graph showing standing volume by stand mean dbh class of ash for countries](image)

53 NFI preliminary estimates for broadleaved species and ash
### Table 19 Standing volume by mean stand dbh class of ash for GB and countries

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<th>Mean stand DBH (cm)</th>
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<th>Private sector volume (000 m³ obs)</th>
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</table>
Number of measurable trees as at 31 March 2011

Figure 20a  Numbers of trees by age class of ash for GB

Figure 20b  Numbers of trees by age class of ash for countries

NFI preliminary estimates for broadleaved species and ash
### Table 20  Numbers of trees by age class of ash for GB and countries

<table>
<thead>
<tr>
<th>Age class (years)</th>
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<th>Private sector</th>
<th>Total</th>
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<td>number of trees (millions)</td>
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<td>10</td>
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<td>1.0</td>
<td>31</td>
</tr>
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<td><strong>Total</strong></td>
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<td>96.5</td>
<td>5</td>
</tr>
<tr>
<td><strong>Scotland</strong></td>
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<td>31</td>
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NFI preliminary estimates for broadleaved species and ash
Figure 21a  Numbers of trees by mean stand dbh class of ash for GB

Figure 21b  Numbers of trees by mean stand dbh class of ash for countries

57  NFI preliminary estimates for broadleaved species and ash
### Table 21  Numbers of trees by mean stand dbh class of ash for GB and countries

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<th>Mean stand (cm)</th>
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<th>Total number of trees (millions)</th>
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Table 22 Number of seedlings and saplings in Private Sector NFI mapped woodland for GB and countries

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<th>Ash</th>
<th>Percentage ash</th>
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<td>Wales</td>
<td>199 (17)</td>
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<td>1,221 (5)</td>
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</table>

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<tr>
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NFI preliminary estimates for broadleaved species and ash
Discussion

The estimates show that ash is a significant tree species within British woodlands and forests. At 11% of broadleaved stocked area (Table 13) it is the third most prevalent broadleaved species and at 5% of all species it is the fifth most prevalent of all conifer* and broadleaf species combined within Great Britain.

Distribution varies significantly across Great Britain, with ash being especially prevalent in England and Wales. It is estimated to be 12% of broadleaved stocked area in England and 14% in Wales (Table 13). Within England the distribution of ash varies between and within NFI regions and the results show that ash is most prevalent in the south west, south and midlands, which is evident in Maps 1, 2 and 3. In Wales, the mapping of NFI sample sites in Map 3 indicates that ash is more prevalent in the south than the north of Wales. Similar differences in distribution within regions are evident in many areas. Scotland has a comparatively low cover of ash at 5% of the country’s broadleaved woodland, but again distribution varies between regions and whilst there are relatively low levels of ash north of the Forth and Clyde rivers, ash is more prevalent in the Scottish Borders to the south of the country. These distributions largely reflect the natural range of ash, which varies according to each area’s environmental suitability for the species and also to historical differences in land use management within the different areas of Great Britain.

The stocked areas of the 10 principal species (Table 4) illustrate how relatively few species account for most of the broadleaved stocked areas at the GB level. As a consequence, these few species (10 out of the 81 recorded) also contribute most to standing volume and tree numbers. Ash is one such species and currently plays a significant role in the GB forest resource, accounting for around 14% of total standing broadleaved timber volume and 9% of trees (Tables 14 and 15). The majority of these are to be found within the private sector.

The results show that there is more standing broadleaved volume in forests and woodlands in Great Britain than could have been inferred from previous evaluations of the broadleaved timber resource (for example, the Census of Woodlands and Trees 1979-82). Estimates of standing volume on the Forestry Commission estate are consistent with previously reported areas and age classes. The increase in total standing volume therefore relates to estimates for the private sector estate, and this is believed to be largely due to increases in the estimates of woodland area, stocked area and number of trees per hectare for this sector.

* For conifer estimates see NFI Report ‘Standing timber volume for coniferous trees in Britain’
The revised estimates of woodland area, stocked area and number of trees per hectare mainly result from more accurate information arising from the improved methodology used in the current National Forest Inventory. It may also be in part due to actual change in woodlands since earlier evaluations. For example, increases in standing volume may be due to the size of trees increasing as they have grown and matured since the last assessment. However, that factor needs to be set against any felling activity in the intervening period. New planting and replanting since the 1979-82 census will also have had an impact on changes in stocked areas, tree numbers and standing volumes over time.

There are an estimated 1.4 billion broadleaved trees over the size of 4cm dbh within British woods, of which 126 million are ash trees (Table 10). This estimate excludes seedlings and saplings of ash, of which there are estimated to be around 1.6 billion in private sector woodland (Table 22). Ash forms a significant component (39%) of the estimated 4.2 billion broadleaved saplings and seedlings in British private sector woodland and this suggests that ash plays a significant role in the current and recent reproductive processes of British woodlands.

The estimates presented within this report cover woodlands over 0.5 hectares in size and greater than 20 metres in width. Ash is also present in lower numbers in smaller woods, hedgerows and lone trees, which are not covered by this report. Information and estimates on these are available from the Countryside Survey.

The relative standing volumes and tree numbers of the principal broadleaved species (Tables 7 and 10) are largely associated with the proportion of total stocked area occupied by each species. Oak, beech, sycamore and ash contribute the most to the broadleaved standing volume at the GB level and also occupy large portions of the stocked area of broadleaves in Great Britain. However, other factors, including the morphology of the individual tree species (affecting how large a tree may grow to), age distribution, past thinning practice (a factor which affects the number of live stems remaining in a stand) and growth rates (which determine average tree sizes of a given age) will also influence the total standing volume of a given species. For example, such factors account for birch, a relatively small tree when mature, representing the largest number of broadleaved trees for a single species and the second highest for stocked area, yet it only accounts for the fifth largest amount of standing volume.

The relative dominance of broadleaved species in British woodlands is generally determined by species suitability to the specific environmental influences (such as climate and soil conditions) found across the range of locations that exist within Great Britain. Individual species dominance is therefore usually related to that species successful adaptation to these conditions. However, biotic influences also impact upon species distribution, the most influential factor of which is the historic uses of woodland.
by man. For example when comparing Map 4 (which shows all areas of land predicted as suitable for ash) with Maps 1, 2 and 3 (which show the present distribution for ash) this point is illustrated, as where ash would grow and where it is growing are different. Here historical conversion of woodland to agriculture has removed large areas that could contain ash if woodland still existed and often where woodland does exist, other species are present.

Most broadleaved woodlands are composed of several tree species. Consequently, as well as a single species suitability to a particular site potentially determining its success at that site, its ability to compete with other tree species at that site will also affect its success in terms of canopy composition, with some species being more competitive than others at a given site. Growth rates of individual species can also be impacted upon differently through such competition. For example, if a species is less competitive than others in a region and is consistently found to be in the lower storeys of woodland, this will impact upon the average growth rates of that species within mixtures in that region. However if it is established in pure stands, the same species may exhibit much higher growth rates.

As species compete differently in different environments and under different woodland management regimes and events, individual species may dominate canopies in some situations, but not in others. The proportion of stands where a species dominates other species in the canopy in an area will impact upon its stocked area, mean growth rates, standing volume and tree numbers within that area. As historical management and environmental events may interact with species competitiveness, and multiple or single events through time can have differential impacts on different species competitiveness, such events can significantly alter the balance of competition between species within woodlands and in turn can alter woodland composition. Examples of this are a single disease event, such as Dutch elm disease, or multiple events, such as persistent browsing pressure, each of which can favour one species over another. Most woodland composition comes as a result of the combination of such influences. In any given region a range of competitive outcomes and canopy occupancies will occur for an individual species and this report gives a mean value for those. Later reports will examine within region variation of these factors.

The estimates of numbers of measurable trees by age class (Table 11) indicates that most trees within GB are aged between 11 and 60 years. A similar pattern is seen for stocked areas (Table 5). For both stocked area and tree numbers, trees over 80 years of age are significantly underrepresented. This is a key finding as this indicates that broadleaved trees in Great Britain have a significantly younger age profile than their natural lifespan would produce. This suggests that the age distribution found does not reflect that of a natural, undisturbed population of broadleaved trees. In undisturbed woodland, an age distribution with more representation of higher ages would be
expected. This indicates the impact of significant historical events that will have removed older trees from the woodlands. This phenomenon is most likely due to the harvesting activity that occurred during the two World Wars of the 20th century, and also to some extent to the form of woodland management practised in earlier centuries. Standing volume is represented more evenly across the age classes, as smaller areas of older, larger trees will contribute more standing volume per unit area. This counterbalances their low representation by area in standing volume estimates.

For ash, the majority of trees are aged between 11 and 60 years (Table 20) and most standing volume is held within trees aged between 40 and 80 years, with the highest concentration in the 61-80 age range (Table 18). This again indicates that an event or series of events occurred in the past which would account for the low presence of ash trees of over 80 years of age in the current ash population. This is exhibited in a sharp decline in the stocked areas of ash trees of over 80 years of age. These events may have taken the form of the removal of many mature ash trees up until 80 years ago, or the increasing establishment of many new ash trees in woods that started some 60 to 80 years ago. There is also the possibility that in some ash stands shorter rotations are practised. Any of these types of activity, either in isolation or combination, could produce the age class distribution found.

Similarly the estimates of standing volume by mean stand size class for all broadleaves (Table 9), show that there is currently a sizeable concentration of standing broadleaved volume contained within trees in the 10–60 cm dbh size range, and relatively low amounts of standing volume in the stands of 60 cm dbh and above. This also reflects the low incidence of older trees. Most ash standing volume is found within the 20-60 cm size range (Table 19).

On the basis of the distribution of stocked area across age classes and size classes, ash is relatively younger and smaller than the population of broadleaves as a whole.

It is the complex interaction of the factors described here that have influenced the evolution and current composition of broadleaved woodlands within Great Britain. The combination of environmental factors and past events have resulted in the currently observed species composition, age classes, tree numbers and standing volumes that are seen within these results.
Future work

This report has built on the woodland area reports and maps published in 2011 and the National Forest Inventory field survey programme, to provide preliminary estimates of standing volume, stocked areas and numbers of trees for broadleaved species with a special focus on ash. At present they represent the most up-to-date and most accurate source of information on quantities and distribution of ash in British broadleaved woodland and have been produced to contribute information to assist the management of the *Chalara fraxinea* outbreak. However, the reported estimates are based upon less field sample data than the intended target amount of sampling for NFI reports of broadleaved species. As a consequence, further work is required to refine and assess these findings. These preliminary estimates and observations will therefore be updated in 2013 by revised estimates and analysis based upon additional survey data, which will further explore the implications of the results in this report, with particular reference to potential broadleaved timber availability and carbon sequestration.

Knowledge of the composition and structure of woodland is an essential part of planning for biosecurity measures and sustainable forest management across a range of interests including, for example, biodiversity, climate change and the development of the forest products industry, and is an ongoing objective of the National Forest Inventory.

Official Statistics

This is an Official Statistics publication. More information about Official Statistics and the UK Statistics Authority is available at www.statisticsauthority.gov.uk

National Forest Inventory Statistician: Alan Brewer
## Glossary

<table>
<thead>
<tr>
<th>Term</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td>Age class</td>
<td>A grouping of trees into specific age ranges for classification purposes.</td>
</tr>
<tr>
<td>Area (forest/woodland)</td>
<td>Forest and woodland area is divided into net forest area – the land area actually covered by trees (in the National Forest Inventory defined to the drip line of the canopy); and gross forest area – which includes both the area covered by trees and the small open spaces (of less than 0.5 hectares) within the forest boundary (e.g. rides, glades, ponds).</td>
</tr>
<tr>
<td>Broadleaves</td>
<td>Trees and shrubs that belong to the angiosperm division of the plant kingdom (as distinct from the gymnosperm division that includes conifers). Most in the UK have laminar leaves and are deciduous. Sometimes referred to as ‘hardwoods’ but not all produce hardwood timber.</td>
</tr>
<tr>
<td>Canopy</td>
<td>The mass of foliage and branches formed collectively by the crowns of trees.</td>
</tr>
<tr>
<td>Clearfelling</td>
<td>Cutting down of an area of woodland (if it is within a larger area of woodland it is typically a felling greater than 0.25 hectares). Sometimes a scatter or small clumps of trees may be left standing within the felled area.</td>
</tr>
<tr>
<td>Conifers</td>
<td>Trees and shrubs that belong to the gymnosperm division of the plant kingdom (as distinct from the angiosperm division that includes broadleaves). Conifers mostly have needles or scale like leaves and, with the exception of larch, all are evergreen. Sometimes referred to as ‘softwoods’, they produce softwood timber.</td>
</tr>
<tr>
<td>dbh (diameter at breast height)</td>
<td>The diameter of a tree (overbark) at breast height, which is usually defined as 1.3 m along the axis of the stem from the ground.</td>
</tr>
<tr>
<td>Forest (and woodland)</td>
<td>Land predominately covered in trees (defined as land under stands of trees with a canopy cover of at least 20%, or the ability to achieve this, and with a minimum area of 0.5 hectares and minimum width of 20 m), whether in large tracts (generally called forests) or smaller areas known by a variety of terms (including woods, copses, spinneys or shelterbelts).</td>
</tr>
</tbody>
</table>

65 NFI preliminary estimates for broadleaved species and ash
<table>
<thead>
<tr>
<th>Term</th>
<th>Definition</th>
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</thead>
<tbody>
<tr>
<td>Forestry Commission</td>
<td>The government department responsible for the regulation of forestry, implementing forestry policy and management of state forests in Great Britain. Forestry policy is devolved, with some common issues addressed on a GB or UK basis.</td>
</tr>
<tr>
<td>Forestry Commission estate</td>
<td>Forests, woodlands, open land and other property managed by the Forestry Commission.</td>
</tr>
<tr>
<td>Great Britain (GB)</td>
<td>England, Scotland and Wales.</td>
</tr>
<tr>
<td>Overbark</td>
<td>A term used in measurements of wood volume that include the bark.</td>
</tr>
<tr>
<td>Private sector estate</td>
<td>Forests and woodlands in GB not managed by the Forestry Commission. In the context of the National Forest Inventory, ‘private sector’ is used for convenience although it includes land owned or managed by bodies such as local authorities and charities.</td>
</tr>
<tr>
<td>Production forecast</td>
<td>A forecast of timber availability from the Forestry Commission (GB), the Forest Service, an agency within the Department of Agriculture and Rural Development in Northern Ireland) and potential timber availability from the private sector (UK).</td>
</tr>
<tr>
<td>Saplings</td>
<td>Young plants of tree species that have attained a height of at least 0.5 metres but have not yet attained a diameter at breast height of 4 centimetres. They may have grown through natural regeneration or have originally been raised in a nursery and planted out as seedlings or saplings.</td>
</tr>
<tr>
<td>Seedlings</td>
<td>Young plants of tree species that have not yet attained a height of 0.5 metres. They may have grown through natural regeneration or have been raised in a nursery and planted out.</td>
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<tr>
<td>Softwood</td>
<td>Wood of coniferous trees or the conifers themselves.</td>
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<tr>
<td>Stand</td>
<td>A collection of trees, generally contained within a contiguous area of land, of relatively uniform structure. The structure of a stand may be of a simple nature, such as that composed of a single even-aged storey of a single species, or complex, involving multiple storeys or heights, variable ages and multiple species.</td>
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<td>Term</td>
<td>Definition</td>
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<tr>
<td>Standard error (SE)</td>
<td>The measure of the margin of error associated with an estimate as a result of sampling from a population with statistical variability. Larger standard errors indicate less precision in the estimate. Standard errors in this report are quoted in relative terms (i.e. as percentages of the value of the estimate).</td>
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<tr>
<td>Standing volume</td>
<td>A measurement of timber volume within standing trees (but also including windblown trees), usually expressed as cubic metres overbark standing (m³ obs). In this report, standing volume is defined as live stemwood and branchwood to 7 cm top diameter and at least 3 m in length. It excludes roots, below ground stump material, small branches, foliage and deadwood. For private sector woodland only, it also excludes standing volume in trees in woodlands of less than 0.5 hectares. In this report, standing volume is used as a measure of the physical size of a tree or population of trees. In the context of production forestry, it is indicative of the volume of usable timber in standing trees.</td>
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<tr>
<td>Stemwood</td>
<td>The volume of wood in stems, with stems being defined internationally as the above-ground part of the main shoot (or offshoots) with apical dominance. In GB stemwood includes wood from the stump up to 7 cm top diameter of the main stem and sometimes branchwood at least 3 m in length with a minimum top diameter of 7 cm.</td>
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<tr>
<td>Stocked area</td>
<td>The area stocked with living trees. The stocked areas in this report are quoted in gross terms for the Forestry Commission estate and in net terms for the private sector estate (see definitions of Area above).</td>
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<tr>
<td>Sustainable forest management</td>
<td>The stewardship and use of forests and forest lands in a way, and at a rate, that maintains their biodiversity, productivity, regeneration capacity and vitality and their potential to fulfil, now and in the future, relevant ecological, economic and social functions at local, national and global levels, and that does not cause damage to other ecosystems.</td>
</tr>
<tr>
<td>Thinning</td>
<td>The removal of a proportion of trees in a forest after canopy closure, usually to promote growth and greater value in the remaining trees.</td>
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</table>
Top diameter | Diameter of the smaller (top) end of a log, often used to define different categories of wood products (e.g. sawlogs, roundwood, pulp) and merchantable timber.
---|---
Top height | The mean total height of the 100 largest dbh trees per hectare.
Yield class (YC): | A classification based on tree species, height growth (top height) and tree age, used to assess the volume production of a stand of trees. It reflects the potential productivity of the site for the tree species growing on it.
Appendix A: regional tables and figures

Broadleaves

Stocked area as at 31 March 2011

**Figure A.1** Stocked area by principal broadleaved species for NFI regions

<table>
<thead>
<tr>
<th>Region</th>
<th>Other broadleaves</th>
<th>Willow</th>
<th>Alder</th>
<th>Hawthorn</th>
<th>Hazel</th>
<th>Sweet chestnut</th>
<th>Birch</th>
<th>Ash</th>
<th>Sycamore</th>
<th>Beech</th>
<th>Oak</th>
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</tbody>
</table>

69  NFI preliminary estimates for broadleaved species and ash
## Table A.1 Stocked area by principal broadleaved species for NFI regions

<table>
<thead>
<tr>
<th>Principal species</th>
<th>FC area (000 ha)</th>
<th>Private sector area (000 ha)</th>
<th>Total area (000 ha)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>North West England</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>All broadleaves</td>
<td>2.7</td>
<td>65.6</td>
<td>3 68.3</td>
</tr>
<tr>
<td>Oak</td>
<td>0.5</td>
<td>15.5</td>
<td>11 16.0</td>
</tr>
<tr>
<td>Beech</td>
<td>0.2</td>
<td>4.1</td>
<td>20 4.3</td>
</tr>
<tr>
<td>Sycamore</td>
<td>0.1</td>
<td>8.9</td>
<td>15 8.9</td>
</tr>
<tr>
<td>Ash</td>
<td>0.2</td>
<td>5.1</td>
<td>15 5.2</td>
</tr>
<tr>
<td>Birch</td>
<td>0.6</td>
<td>11.6</td>
<td>12 12.1</td>
</tr>
<tr>
<td>Sweet chestnut</td>
<td>0.0</td>
<td>0.1</td>
<td>64 0.1</td>
</tr>
<tr>
<td>Hazel</td>
<td>0.1</td>
<td>2.0</td>
<td>20 2.1</td>
</tr>
<tr>
<td>Hawthorn</td>
<td>0.0</td>
<td>2.8</td>
<td>18 2.8</td>
</tr>
<tr>
<td>Alder</td>
<td>0.0</td>
<td>6.6</td>
<td>18 6.6</td>
</tr>
<tr>
<td>Willow</td>
<td>0.0</td>
<td>4.6</td>
<td>27 4.6</td>
</tr>
<tr>
<td>Other broadleaves</td>
<td>1.1</td>
<td>4.1</td>
<td>15 5.2</td>
</tr>
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<td><strong>North East England</strong></td>
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<tr>
<td>All broadleaves</td>
<td>2.4</td>
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<td>6 36.2</td>
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<td>21 4.8</td>
</tr>
<tr>
<td>Beech</td>
<td>0.1</td>
<td>2.6</td>
<td>25 2.7</td>
</tr>
<tr>
<td>Sycamore</td>
<td>0.1</td>
<td>5.7</td>
<td>20 5.7</td>
</tr>
<tr>
<td>Ash</td>
<td>0.0</td>
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<td>21 4.4</td>
</tr>
<tr>
<td>Birch</td>
<td>0.1</td>
<td>5.9</td>
<td>17 6.0</td>
</tr>
<tr>
<td>Sweet chestnut</td>
<td>0.0</td>
<td>0.0</td>
<td>0 0.0</td>
</tr>
<tr>
<td>Hazel</td>
<td>0.0</td>
<td>3.1</td>
<td>26 3.1</td>
</tr>
<tr>
<td>Hawthorn</td>
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<td>44 0.8</td>
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<td>24 2.8</td>
</tr>
<tr>
<td>Willow</td>
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<td>46 1.2</td>
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<td>18 4.8</td>
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<td><strong>Yorkshire and Humber</strong></td>
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<td>3 74.1</td>
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<tr>
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<td>10 13.0</td>
</tr>
<tr>
<td>Beech</td>
<td>0.3</td>
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<td>14 5.9</td>
</tr>
<tr>
<td>Sycamore</td>
<td>0.3</td>
<td>12.9</td>
<td>8 13.2</td>
</tr>
<tr>
<td>Ash</td>
<td>0.2</td>
<td>8.6</td>
<td>10 8.8</td>
</tr>
<tr>
<td>Birch</td>
<td>0.6</td>
<td>10.5</td>
<td>12 11.1</td>
</tr>
<tr>
<td>Sweet chestnut</td>
<td>0.0</td>
<td>0.3</td>
<td>48 0.3</td>
</tr>
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NFI preliminary estimates for broadleaved species and ash
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NFI preliminary estimates for broadleaved species and ash
**Figure A.2** Stocked area by age class of all broadleaved species for NFI regions

Thousands of hectares

- 100+
- 81-100
- 61-80
- 41-60
- 21-40
- 11-20
- 0-10

NFI preliminary estimates for broadleaved species and ash
Table A.2  Stocked area by age class of all broadleaved species for NFI regions

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NFI preliminary estimates for broadleaved species and ash
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NFI preliminary estimates for broadleaved species and ash
Figure A.3  Stocked area by mean stand dbh class of all broadleaved species for NFI regions
Table A.3  Stocked area by mean stand dbh class of all broadleaved species for NFI regions

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NFI Preliminary Report

76  NFI preliminary estimates for broadleaved species and ash
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| **North East Scotland** |          |               |       |
| 0-7                    | 0.7      | 7.4           | 19    |
| 7-10                   | 1.0      | 4.4           | 21    |
| 10-15                  | 0.2      | 5.1           | 23    |
| 15-20                  | 0.3      | 5.8           | 25    |
| 20-30                  | 0.2      | 11.4          | 16    |
| 30-40                  | 0.1      | 1.4           | 41    |
| 40-60                  | 0.1      | 3.0           | 36    |
| 60-80                  | 0.0      | 0.7           | 51    |
| 80+                    | 0.0      | 0.0           | 108   |
| **Total**              | **2.7**  | **39.1**      | **6** |

| **East Scotland**      |          |               |       |
| 0-7                    | 0.3      | 5.9           | 15    |
| 7-10                   | 0.3      | 5.0           | 13    |
| 10-15                  | 0.3      | 5.7           | 14    |
| 15-20                  | 0.3      | 5.3           | 16    |
| 20-30                  | 0.1      | 5.1           | 17    |
| 30-40                  | 0.0      | 4.9           | 18    |
| 40-60                  | 0.1      | 3.4           | 25    |
| 60-80                  | 0.0      | 0.4           | 52    |
| 80+                    | 0.0      | 0.4           | 57    |
| **Total**              | **1.6**  | **36.5**      | **4** |

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| **West Scotland**    |          |               |       |
| 0-7                  | 1.7      | 8.2           | 20    |
| 7-10                 | 1.9      | 12.7          | 20    |
| 10-15                | 3.4      | 13.4          | 15    |
| 15-20                | 3.7      | 5.1           | 26    |
| 20-30                | 1.1      | 10.0          | 22    |
| 30-40                | 0.1      | 3.2           | 35    |
| 40-60                | 0.1      | 4.1           | 33    |
| 60-80                | 0.0      | 0.6           | 75    |
| 80+                  | 0.0      | 0.4           | 56    |
| **Total**            | **12.0** | **57.8**      | **6** |

| **Wales**            |          |               |       |
| 0-7                  | 4.4      | 10.4          | 16    |
| 7-10                 | 2.6      | 20.4          | 10    |
| 10-15                | 2.0      | 22.1          | 10    |
| 15-20                | 2.2      | 13.9          | 14    |
| 20-30                | 1.4      | 15.4          | 12    |
| 30-40                | 0.6      | 12.2          | 13    |
| 40-60                | 0.4      | 13.5          | 14    |
| 60-80                | 0.1      | 4.2           | 28    |
| 80+                  | 0.0      | 0.4           | 68    |
| **Total**            | **13.6** | **112.6**     | **3** |

---

NFI preliminary estimates for broadleaved species and ash
Standing volume as at 31 March 2011

Figure A.4 Standing volume by principal broadleaved species for NFI regions

NFI preliminary estimates for broadleaved species and ash
Table A.4  Standing volume by principal broadleaved species for NFI regions

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### North Scotland

| All broadleaves | 571 | 3,217 | 6 | 3,788 |
| Oak             | 30  | 54    | 12 | 85   |
| Beech           | 9   | 755   | 67 | 763  |
| Sycamore        | 1   | 56    | 91 | 57   |
| Ash             | 1   | 62    | 61 | 63   |
| Birch           | 447 | 1,769 | 13 | 2,216|
| Sweet chestnut  | 0   | 0     | -  | 0    |
| Hazel           | 7   | 51    | 63 | 58   |
| Hawthorn        | 0   | 0     | -  | 0    |
| Alder           | 9   | 237   | 42 | 246  |
| Willow          | 0   | 41    | 57 | 41   |
| Other broadleaves | 67  | 187   | 23 | 255  |

### North East Scotland

| All broadleaves | 221 | 3,931 | 11 | 4,152 |
| Oak             | 8   | 560   | 61 | 568  |
| Beech           | 29  | 451   | 42 | 480  |
| Sycamore        | 4   | 182   | 55 | 186  |
| Ash             | 2   | 10    | 90 | 12   |
| Birch           | 78  | 2,321 | 10 | 2,399|
| Sweet chestnut  | 0   | 0     | -  | 0    |
| Hazel           | 0   | 22    | 91 | 22   |
| Hawthorn        | 0   | 0     | 58 | 0    |
| Alder           | 11  | 30    | 51 | 41   |
| Willow          | 0   | 58    | 53 | 58   |
| Other broadleaves | 89  | 269   | 25 | 358  |

### East Scotland

| All broadleaves | 173 | 5,287 | 10 | 5,460 |
| Oak             | 15  | 628   | 35 | 643  |
| Beech           | 21  | 1,506 | 29 | 1,527|
| Sycamore        | 11  | 676   | 24 | 687  |
| Ash             | 2   | 392   | 46 | 394  |
| Birch           | 68  | 1,176 | 11 | 1,244|
| Sweet chestnut  | 0   | 0     | -  | 0    |
| Hazel           | 0   | 24    | 33 | 24   |
| Hawthorn        | 0   | 40    | 72 | 40   |
| Alder           | 3   | 443   | 55 | 446  |
| Willow          | 0   | 172   | 28 | 172  |
| Other broadleaves | 53  | 406   | 37 | 459  |

### South Scotland

| All broadleaves | 354 | 12,993 | 11 | 13,348|
| Oak             | 96  | 3,142 | 22 | 3,339|
| Beech           | 22  | 2,013 | 27 | 2,035|
| Sycamore        | 12  | 2,493 | 18 | 2,504|
| Ash             | 7   | 1,954 | 31 | 1,964|
| Birch           | 49  | 1,140 | 13 | 1,153|
| Sweet chestnut  | 0   | 0     | -  | 0    |
| Hazel           | 0   | 34    | 44 | 35   |
| Hawthorn        | 0   | 137   | 23 | 137  |
| Alder           | 6   | 421   | 25 | 427  |
| Willow          | 0   | 95    | 24 | 95   |
| Other broadleaves | 162 | 1,565 | 32 | 1,727|

### West Scotland

| All broadleaves | 1,831 | 5,467 | 14 | 7,298 |
| Oak             | 417  | 2,096 | 23 | 2,513|
| Beech           | 44  | 552   | 67 | 597  |
| Sycamore        | 9   | 478   | 71 | 487  |
| Ash             | 26  | 244   | 48 | 271  |
| Birch           | 660 | 1,088 | 14 | 1,748|
| Sweet chestnut  | 0   | 0     | -  | 0    |
| Hazel           | 31  | 144   | 31 | 175  |
| Hawthorn        | 0   | 10    | 78 | 10   |
| Alder           | 43  | 555   | 55 | 598  |
| Willow          | 0   | 27    | 40 | 27   |
| Other broadleaves | 600 | 216   | 46 | 815  |

### Wales

| All broadleaves | 1,408 | 22,545 | 7  | 23,553|
| Oak             | 354  | 7,238 | 12 | 7,591|
| Beech           | 363  | 2,312 | 28 | 2,675|
| Sycamore        | 12  | 2,641 | 22 | 2,653|
| Ash             | 61  | 4,906 | 17 | 4,967|
| Birch           | 46  | 1,077 | 18 | 1,123|
| Sweet chestnut  | 7   | 283   | 85 | 290  |
| Hazel           | 2   | 635   | 21 | 837  |
| Hawthorn        | 0   | 271   | 25 | 271  |
| Alder           | 18  | 1,633 | 17 | 1,650|
| Willow          | 0   | 641   | 31 | 641  |
| Other broadleaves | 545 | 982   | 21 | 1,527|

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80 NFI preliminary estimates for broadleaved species and ash
Figure A.5  Standing volume by age class of all broadleaved species for NFI regions
Table A.5  Standing volume by age class of all broadleaved species for NFI regions

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<th>Total</th>
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| North East England | | | | | |
| 0-10              | 0                 | 1                  | 49                  | 1                 |
| 11-20             | 5                 | 126                | 19                  | 131               |
| 21-40             | 20                | 1,291              | 27                  | 1,311             |
| 41-60             | 29                | 910                | 24                  | 939               |
| 61-80             | 34                | 2,330              | 18                  | 2,364             |
| 81-100            | 11                | 461                | 27                  | 472               |
| 100+              | 11                | 68                 | 49                  | 79                |
| Total             | 111               | 5,186              | 10                  | 5,297             |

| Yorkshire and Humber | | | | | |
| 0-10              | 0                 | 3                  | 25                  | 3                 |
| 11-20             | 2                 | 576                | 27                  | 579               |
| 21-40             | 30                | 1,525              | 10                  | 1,555             |
| 41-60             | 107               | 3,724              | 14                  | 3,831             |
| 61-80             | 82                | 3,563              | 13                  | 3,646             |
| 81-100            | 36                | 2,261              | 17                  | 2,297             |
| 100+              | 28                | 618                | 39                  | 647               |
| Total             | 286               | 12,272             | 6                   | 12,557            |

| East Midlands | | | | | |
| 0-10           | 0                 | 3                  | 57                  | 3                 |
| 11-20          | 9                 | 375                | 20                  | 384               |
| 21-40          | 43                | 1,117              | 17                  | 1,160             |
| 41-60          | 217               | 2,714              | 15                  | 2,931             |
| 61-80          | 417               | 4,326              | 19                  | 4,742             |
| 81-100         | 145               | 1,701              | 26                  | 1,846             |
| 100+           | 81                | 2,281              | 26                  | 2,363             |
| Total          | 913               | 12,516             | 8                   | 13,429            |

| East England | | | | | |
| 0-10           | 0                 | 11                 | 41                  | 11                |
| 11-20          | 2                 | 339                | 16                  | 341               |
| 21-40          | 12                | 2,647              | 15                  | 2,679             |
| 41-60          | 177               | 5,595              | 15                  | 5,772             |
| 61-80          | 210               | 6,393              | 15                  | 6,603             |
| 81-100         | 67                | 2,374              | 25                  | 2,441             |
| 100+           | 38                | 1,967              | 29                  | 2,005             |
| Total          | 525               | 19,325             | 7                   | 19,851            |

| South East England and London | | | | | |
| 0-10          | 0                 | 14                 | 42                  | 14                |
| 11-20         | 13                | 819                | 14                  | 833               |
| 21-40         | 44                | 6,821              | 7                   | 6,865             |
| 41-60         | 584               | 8,050              | 8                   | 8,634             |
| 61-80         | 701               | 11,961             | 9                   | 12,662            |
| 81-100        | 250               | 8,890              | 11                  | 9,140             |
| 100+          | 2,433             | 12,864             | 8                   | 15,298            |
| Total         | 4,027             | 49,418             | 3                   | 53,445            |

| South West England | | | | | |
| 0-10           | 0                 | 73                 | 42                  | 73                |
| 11-20          | 6                 | 1,287              | 11                  | 1,293             |
| 21-40          | 71                | 5,128              | 10                  | 5,198             |
| 41-60          | 483               | 8,274              | 9                   | 8,757             |
| 61-80          | 552               | 8,576              | 13                  | 9,128             |
| 81-100         | 141               | 9,786              | 11                  | 9,927             |
| 100+           | 339               | 7,562              | 16                  | 7,901             |
| Total          | 4,592             | 40,685             | 5                   | 42,278            |

| West Midlands | | | | | |
| 0-10           | 0                 | 5                  | 70                  | 5                 |
| 11-20          | 7                 | 503                | 20                  | 509               |
| 21-40          | 43                | 2,221              | 16                  | 2,264             |
| 41-60          | 149               | 4,149              | 20                  | 4,398             |
| 61-80          | 66                | 4,647              | 21                  | 4,713             |
| 81-100         | 45                | 6,375              | 26                  | 6,420             |
| 100+           | 37                | 4,412              | 28                  | 4,449             |
| Total          | 347               | 22,311             | 8                   | 22,658            |
NFI Preliminary Report

Table A.5 (continued)

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<th>Private sector volume (000 m³ obs)</th>
<th>SE% volume (000 m³ obs)</th>
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Figure A.6  Standing volume by mean stand dbh class of all broadleaved species for NFI regions
**Table A.6  Standing volume by mean stand dbh class of all broadleaved species for NFI regions**

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85  NFI preliminary estimates for broadleaved species and ash
### Table A.6 (continued)

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Number of measurable trees as at 31 March 2011

Figure A.7  Numbers of trees by principal broadleaved species for NFI regions

NFI preliminary estimates for broadleaved species and ash
### Table A.7 Numbers of trees by principal broadleaved species for NFI regions

#### North West England

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#### East Midlands

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#### Yorkshire and Humber

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Figure A.8 Numbers of trees by age class of all broadleaved species for NFI regions

NFI preliminary estimates for broadleaved species and ash
### Table A.8 Numbers of trees by age class of all broadleaved species for NFI regions

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91 NFI preliminary estimates for broadleaved species and ash
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**NFI preliminary estimates for broadleaved species and ash**
Figure A.9  Numbers of trees by mean stand dbh class of all broadleaved species for NFI regions

NFI preliminary estimates for broadleaved species and ash
Table A.9  Numbers of trees by mean stand dbh class of all broadleaved species for NFI regions

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| North East Scotland |                |                |       |
| 0-7                 | 100.4          | 2,192.4        | 33     | 2,292.8     |
| 7-10                | 2,309.6        | 11,539.5       | 19     | 13,849.1    |
| 10-15               | 421.1          | 8,666.9        | 22     | 9,088.1     |
| 15-20               | 401.2          | 6,436.6        | 25     | 6,837.8     |
| 20-30               | 149.3          | 5,720.1        | 18     | 5,869.4     |
| 30-40               | 33.7           | 481.0          | 47     | 514.8       |
| 40-60               | 11.4           | 572.6          | 41     | 584.0       |
| 60-80               | 0.9            | 135.0          | 50     | 135.9       |
| 80+                 | 0.0            | 3.7            | 108    | 3.7         |
| Total               | 3,427.7        | 35,747.8       | 9      | 39,175.5    |

| East Scotland       |                |                |       |
| 0-7                 | 99.7           | 2,817.8        | 29     | 2,917.5     |
| 7-10                | 733.9          | 10,118.8       | 14     | 10,852.7    |
| 10-15               | 748.3          | 8,363.3        | 16     | 9,111.6     |
| 15-20               | 475.9          | 5,513.8        | 17     | 5,989.8     |
| 20-30               | 62.7           | 2,473.6        | 19     | 2,536.3     |
| 30-40               | 10.0           | 1,466.8        | 19     | 1,476.8     |
| 40-60               | 7.6            | 761.5          | 27     | 769.2       |
| 60-80               | 0.8            | 138.0          | 59     | 138.8       |
| 80+                 | 0.2            | 37.2           | 63     | 37.5        |
| Total               | 2,139.1        | 31,690.9       | 7      | 33,830.0    |

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<th>FC</th>
<th>Private sector</th>
<th>Total</th>
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</thead>
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<td>number of trees (thousands)</td>
<td>SE% number of trees (thousands)</td>
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| West Scotland       |                |                |       |
| 0-7                 | 12.0           | 3,933.0         | 41     | 3,945.1     |
| 7-10                | 4,026.1        | 23,536.3        | 18     | 27,562.5    |
| 10-15               | 7,363.6        | 15,046.2        | 18     | 22,409.8    |
| 15-20               | 1,137.8        | 4,173.3         | 27     | 5,311.2     |
| 20-30               | 40.9           | 1,173.3         | 34     | 1,214.1     |
| 30-40               | 8.9            | 705.1           | 34     | 714.0       |
| 40-60               | 0.4            | 186.3           | 80     | 186.7       |
| 60-80               | 0.0            | 54.7            | 66     | 54.7        |
| Total               | 18,173.1       | 53,016.4        | 9      | 71,189.5    |

| Wales               |                |                |       |
| 0-7                 | 406.4          | 5,926.0         | 27     | 6,332.4     |
| 7-10                | 4,986.3        | 43,972.3        | 11     | 48,958.6    |
| 10-15               | 4,265.4        | 38,419.0        | 10     | 42,684.4    |
| 15-20               | 3,152.0        | 15,842.1        | 17     | 18,994.0    |
| 20-30               | 893.0          | 10,640.4        | 14     | 11,530.6    |
| 30-40               | 135.5          | 6,358.3         | 15     | 6,493.7     |
| 40-60               | 37.9           | 4,170.1         | 16     | 4,208.0     |
| 60-80               | 5.6            | 700.5           | 25     | 706.1       |
| 80+                 | 1.1            | 52.1            | 62     | 53.2        |
| Total               | 13,880.4       | 126,080.5       | 6      | 139,961.0   |
Ash

Stocked area as at 31 March 2011

Figure A.10 Stocked area by age class of ash for NFI regions
### Table A.10  Stocked area by age class of ash for NFI regions

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<th>Age class (years)</th>
<th>FC area (000 ha)</th>
<th>Private sector area (000 ha)</th>
<th>Total area (000 ha)</th>
<th>SE% area (000 ha)</th>
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| **East England** | | | | |
| 0-10             | 0.0              | 0.6                         | 38.0                | 0.6              |
| 11-20            | 0.0              | 2.3                         | 29.0                | 2.3              |
| 21-40            | 0.0              | 2.3                         | 28.0                | 2.3              |
| 41-60            | 0.1              | 3.3                         | 27.0                | 3.4              |
| 61-80            | 0.1              | 2.0                         | 32.0                | 2.0              |
| 81-100           | 0.0              | 0.6                         | 63.0                | 0.7              |
| 100+             | 0.0              | 0.1                         | 90.0                | 0.1              |
| **Total**        | **0.2**          | **11.1**                    | **13.0**            | **11.3**         |

| **South East England and London** | | | | |
| 0-10             | 0.0              | 2.9                         | 22.0                | 2.9              |
| 11-20            | 0.0              | 3.2                         | 17.0                | 3.2              |
| 21-40            | 0.0              | 4.7                         | 15.0                | 4.8              |
| 41-60            | 0.1              | 5.2                         | 18.0                | 5.3              |
| 61-80            | 0.1              | 8.0                         | 16.0                | 8.1              |
| 81-100           | 0.1              | 2.7                         | 25.0                | 2.8              |
| 100+             | 0.0              | 0.6                         | 38.0                | 0.6              |
| **Total**        | **0.4**          | **27.3**                    | **7.0**             | **27.7**         |

| **Yorkshire and Humber** | | | | |
| 0-10             | 0.0              | 1.0                         | 22.0                | 1.0              |
| 11-20            | 0.0              | 1.4                         | 21.0                | 1.4              |
| 21-40            | 0.0              | 2.1                         | 23.0                | 2.1              |
| 41-60            | 0.0              | 2.2                         | 21.0                | 2.3              |
| 61-80            | 0.0              | 1.0                         | 26.0                | 1.1              |
| 81-100           | 0.0              | 0.8                         | 39.0                | 0.9              |
| 100+             | 0.0              | 0.0                         | 86.0                | 0.0              |
| **Total**        | **0.2**          | **8.6**                     | **10.0**            | **8.8**          |

| **East Midlands** | | | | |
| 0-10             | 0.0              | 0.7                         | 45.0                | 0.7              |
| 11-20            | 0.1              | 3.0                         | 19.0                | 3.1              |
| 21-40            | 0.0              | 0.5                         | 34.0                | 0.5              |
| 41-60            | 0.2              | 2.3                         | 27.0                | 2.4              |
| 61-80            | 0.4              | 3.9                         | 26.0                | 4.4              |
| 81-100           | 0.1              | 0.5                         | 55.0                | 0.6              |
| 100+             | 0.0              | 0.2                         | 93.0                | 0.2              |
| **Total**        | **0.9**          | **11.0**                    | **12.0**            | |
Table A.10  (continued)

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| South Scotland    |          |                |       |
| 0-10              | 0.0      | 2.7            | 36    | 2.8 |
| 11-20             | 0.0      | 1.8            | 20    | 1.9 |
| 21-40             | 0.0      | 1.8            | 24    | 1.8 |
| 41-60             | 0.0      | 1.7            | 34    | 1.7 |
| 61-80             | 0.0      | 0.9            | 50    | 0.9 |
| 81-100            | 0.0      | 0.0            | 71    | 0.0 |
| 100+              | 0.0      | 0.0            | -     | 0.0 |
| Total             | 0.1      | 9.0            | 15    | 9.1 |

| West Scotland     |          |                |       |
| 0-10              | 0.0      | 0.0            | -     | 0.1 |
| 11-20             | 0.0      | 0.0            | 102   | 0.0 |
| 21-40             | 0.0      | 0.5            | 43    | 0.5 |
| 41-60             | 0.0      | 0.4            | 94    | 0.5 |
| 61-80             | 0.0      | 0.2            | 88    | 0.2 |
| 81-100            | 0.0      | 0.0            | -     | 0.0 |
| 100+              | 0.1      | 0.0            | -     | 0.1 |
| Total             | 0.2      | 1.1            | 43    | 1.3 |

| Wales             |          |                |       |
| 0-10              | 0.1      | 1.9            | 35    | 2.0 |
| 11-20             | 0.0      | 1.8            | 23    | 1.8 |
| 21-40             | 0.0      | 3.1            | 23    | 3.1 |
| 41-60             | 0.1      | 3.7            | 27    | 3.8 |
| 61-80             | 0.1      | 4.1            | 29    | 4.1 |
| 81-100            | 0.1      | 1.9            | 33    | 1.9 |
| 100+              | 0.0      | 0.8            | 50    | 0.8 |
| Total             | 0.4      | 17.2           | 11    | 17.6 |

NFI preliminary estimates for broadleaved species and ash
Figure A.11 Stocked area by mean stand dbh class of ash for NFI regions

NFI preliminary estimates for broadleaved species and ash
### Table A.11  Stocked area by mean stand dbh class of ash for NFI regions

<table>
<thead>
<tr>
<th>Mean stand DBH (cm)</th>
<th>FC area (000 ha)</th>
<th>Private sector area (000 ha)</th>
<th>Total area (000 ha)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>FC Total</td>
<td>SE%</td>
<td>Private sector</td>
</tr>
<tr>
<td>North West England</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>0-7</td>
<td>0.0</td>
<td>0.7</td>
<td>31</td>
</tr>
<tr>
<td>7-10</td>
<td>0.0</td>
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<tr>
<td>10-15</td>
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<td>0.4</td>
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<tr>
<td>15-20</td>
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<td>45</td>
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<tr>
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<td>0.9</td>
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<td>60-80</td>
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<tr>
<td>80+</td>
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<td>Total</td>
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<td>5.1</td>
<td>15</td>
</tr>
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</table>

| North East England  |          |     |               |        |     |
| 0-7                 | 0.0      | 1.3 | 50            | 1.3    |     |
| 7-10                | 0.0      | 0.7 | 42            | 0.7    |     |
| 10-15               | 0.0      | 0.1 | 46            | 0.1    |     |
| 15-20               | 0.0      | 0.5 | 48            | 0.5    |     |
| 20-30               | 0.0      | 0.6 | 37            | 0.6    |     |
| 30-40               | 0.0      | 0.7 | 55            | 0.7    |     |
| 40-60               | 0.0      | 0.4 | 58            | 0.4    |     |
| 60-80               | 0.0      | 0.0 | -             | 0.0    |     |
| 80+                 | 0.0      | 0.0 | -             | 0.0    |     |
| Total               | 0.0      | 4.4 | 21            | 4.4    |     |

| Yorkshire and Humber|          |     |               |        |     |
| 0-7                 | 0.0      | 0.8 | 24            | 0.8    |     |
| 7-10                | 0.0      | 1.7 | 21            | 1.8    |     |
| 10-15               | 0.0      | 1.2 | 26            | 1.2    |     |
| 15-20               | 0.0      | 1.2 | 27            | 1.2    |     |
| 20-30               | 0.0      | 1.2 | 25            | 1.2    |     |
| 30-40               | 0.0      | 1.4 | 28            | 1.4    |     |
| 40-60               | 0.0      | 1.0 | 33            | 1.0    |     |
| 60-80               | 0.0      | 0.0 | -             | 0.0    |     |
| 80+                 | 0.0      | 0.1 | 100           | 0.1    |     |
| Total               | 0.2      | 8.6 | 10            | 8.8    |     |

| East Midlands       |          |     |               |        |     |
| 0-7                 | 0.1      | 0.6 | 47            | 0.7    |     |
| 7-10                | 0.1      | 2.1 | 22            | 2.2    |     |
| 10-15               | 0.1      | 1.6 | 30            | 1.7    |     |
| 15-20               | 0.2      | 0.4 | 47            | 0.6    |     |
| 20-30               | 0.2      | 2.2 | 28            | 2.3    |     |
| 30-40               | 0.1      | 1.3 | 41            | 1.5    |     |
| 40-60               | 0.1      | 2.1 | 38            | 2.2    |     |
| 60-80               | 0.1      | 0.2 | 93            | 0.3    |     |
| 80+                 | 0.0      | 0.4 | 93            | 0.5    |     |
| Total               | 0.9      | 11.0| 12            | 12.0   |     |

| East England        |          |     |               |        |     |
| 0-7                 | 0.0      | 0.5 | 40            | 0.5    |     |
| 7-10                | 0.0      | 1.7 | 30            | 1.7    |     |
| 10-15               | 0.0      | 2.7 | 30            | 2.7    |     |
| 15-20               | 0.0      | 2.0 | 36            | 2.0    |     |
| 20-30               | 0.1      | 1.3 | 41            | 1.3    |     |
| 30-40               | 0.0      | 2.0 | 33            | 2.0    |     |
| 40-60               | 0.0      | 0.7 | 56            | 0.8    |     |
| 60-80               | 0.0      | 0.1 | 90            | 0.1    |     |
| 80+                 | 0.0      | 0.1 | 90            | 0.1    |     |
| Total               | 0.2      | 11.1| 13            | 11.3   |     |

| South East England  |          |     |               |        |     |
| 0-7                 | 0.0      | 2.6 | 23            | 2.7    |     |
| 7-10                | 0.1      | 3.3 | 16            | 3.4    |     |
| 10-15               | 0.0      | 3.2 | 21            | 3.2    |     |
| 15-20               | 0.1      | 4.1 | 23            | 4.2    |     |
| 20-30               | 0.0      | 6.0 | 15            | 6.1    |     |
| 30-40               | 0.1      | 5.0 | 19            | 5.1    |     |
| 40-60               | 0.1      | 2.4 | 24            | 2.4    |     |
| 60-80               | 0.0      | 0.6 | 41            | 0.6    |     |
| 80+                 | 0.0      | 0.1 | 59            | 0.1    |     |
| Total               | 0.4      | 27.3| 7             | 27.7   |     |

| South West England  |          |     |               |        |     |
| 0-7                 | 0.0      | 1.7 | 27            | 1.7    |     |
| 7-10                | 0.1      | 5.6 | 15            | 5.6    |     |
| 10-15               | 0.1      | 3.8 | 16            | 3.9    |     |
| 15-20               | 0.0      | 3.2 | 22            | 3.2    |     |
| 20-30               | 0.1      | 8.1 | 15            | 8.2    |     |
| 30-40               | 0.1      | 3.8 | 19            | 3.9    |     |
| 40-60               | 0.1      | 2.6 | 22            | 2.6    |     |
| 60-80               | 0.0      | 0.9 | 33            | 0.9    |     |
| 80+                 | 0.0      | 0.4 | 56            | 0.4    |     |
| Total               | 0.6      | 30.0| 7             | 30.5   |     |

| West Midlands       |          |     |               |        |     |
| 0-7                 | 0.0      | 0.3 | 38            | 0.3    |     |
| 7-10                | 0.0      | 1.1 | 26            | 1.2    |     |
| 10-15               | 0.0      | 1.4 | 34            | 1.4    |     |
| 15-20               | 0.0      | 1.1 | 47            | 1.1    |     |
| 20-30               | 0.0      | 2.9 | 35            | 2.9    |     |
| 30-40               | 0.0      | 1.3 | 37            | 1.3    |     |
| 40-60               | 0.0      | 2.0 | 32            | 2.0    |     |
| 60-80               | 0.0      | 0.3 | 71            | 0.3    |     |
| 80+                 | 0.0      | 0.0 | 76            | 0.0    |     |
| Total               | 0.2      | 10.3| 14            | 10.5   |     

---

100  NFI preliminary estimates for broadleaved species and ash
## Table A.11 (continued)

<table>
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<tr>
<th>Mean stand DBH (cm)</th>
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<th>FC Total</th>
<th>SE% Total</th>
<th>SE% Total</th>
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<td>SE% area (000 ha)</td>
<td>area (000 ha)</td>
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</table>

| **North East Scotland** |          |          |           |           |
| 0-7                 | 0.0      | 0.2      | 52        | 0.2       |
| 7-10                | 0.0      | 0.0      | 64        | 0.0       |
| 10-15               | 0.0      | 0.0      | -         | 0.0       |
| 15-20               | 0.0      | 0.0      | 95        | 0.0       |
| 20-30               | 0.0      | 0.0      | -         | 0.0       |
| 30-40               | 0.0      | 0.0      | -         | 0.0       |
| 40-60               | 0.0      | 0.0      | -         | 0.0       |
| 60-80               | 0.0      | 0.0      | -         | 0.0       |
| 80+                 | 0.0      | 0.0      | -         | 0.0       |
| **Total**           | 0.0      | 0.2      | 42        | 0.3       |

| **East Scotland** |          |          |           |           |
| 0-7                 | 0.0      | 0.1      | 64        | 0.1       |
| 7-10                | 0.0      | 0.1      | 66        | 0.1       |
| 10-15               | 0.0      | 0.4      | 40        | 0.4       |
| 15-20               | 0.0      | 0.3      | 36        | 0.3       |
| 20-30               | 0.0      | 0.0      | 96        | 0.0       |
| 30-40               | 0.0      | 0.6      | 55        | 0.6       |
| 40-60               | 0.0      | 0.0      | 93        | 0.0       |
| 60-80               | 0.0      | 0.1      | 88        | 0.1       |
| 80+                 | 0.0      | 0.0      | -         | 0.0       |
| **Total**           | 0.1      | 1.7      | 25        | 1.8       |

<table>
<thead>
<tr>
<th>Mean stand DBH (cm)</th>
<th>FC Total</th>
<th>FC Total</th>
<th>SE% Total</th>
<th>SE% Total</th>
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<td>area (000 ha)</td>
<td>SE% area (000 ha)</td>
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<td>9.1</td>
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</table>

| **West Scotland** |          |          |           |           |
| 0-7                 | 0.1      | 0.0      | 102       | 0.1       |
| 7-10                | 0.0      | 0.1      | 91        | 0.1       |
| 10-15               | 0.0      | 0.3      | 60        | 0.3       |
| 15-20               | 0.1      | 0.4      | 93        | 0.5       |
| 20-30               | 0.0      | 0.1      | 70        | 0.1       |
| 30-40               | 0.0      | 0.1      | 94        | 0.1       |
| 40-60               | 0.0      | 0.0      | -         | 0.0       |
| 60-80               | 0.0      | 0.1      | 92        | 0.1       |
| 80+                 | 0.0      | 0.0      | -         | 0.0       |
| **Total**           | 0.2      | 1.1      | 43        | 1.3       |

<table>
<thead>
<tr>
<th>Mean stand DBH (cm)</th>
<th>FC Total</th>
<th>FC Total</th>
<th>SE% Total</th>
<th>SE% Total</th>
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<td>SE% area (000 ha)</td>
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Standing volume as at 31 March 2011

**Figure A.12** Standing volume by age class of ash for NFI regions
### Table A.12 Standing volume by age class of ash for NFI regions

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<th>Age class (years)</th>
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<th>Private sector</th>
<th>Total</th>
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<td>volume</td>
<td>volume</td>
</tr>
<tr>
<td></td>
<td>(000 m³ obs)</td>
<td>(000 m³ obs)</td>
<td>(000 m³ obs)</td>
</tr>
<tr>
<td>North West England</td>
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<tr>
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<td>1</td>
<td>83</td>
</tr>
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<td>60</td>
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<td>233</td>
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</tr>
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<td>41-60</td>
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<td>168</td>
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<td>61-80</td>
<td>14</td>
<td>406</td>
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<td>81-100</td>
<td>1</td>
<td>71</td>
<td>58</td>
</tr>
<tr>
<td>100+</td>
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<td>43</td>
<td>85</td>
</tr>
<tr>
<td>Total</td>
<td>25</td>
<td>960</td>
<td>20</td>
</tr>
</tbody>
</table>

| North East England | | | |
| 0-10              | 0   | 0   | 72   | 0   |
| 11-20             | 0   | 2   | 43   | 2   |
| 21-40             | 0   | 106 | 46   | 106 |
| 41-60             | 0   | 361 | 35   | 361 |
| 61-80             | 0   | 0   | 0    | 0   |
| 100+              | 0   | 5   | 86   | 5   |
| Total             | 0   | 577 | 23   | 578 |

| Yorkshire and Humbers | | | |
| 0-10               | 0   | 1   | 35   | 1   |
| 11-20              | 0   | 67  | 33   | 67  |
| 21-40              | 2   | 219 | 25   | 221 |
| 41-60              | 6   | 631 | 24   | 637 |
| 61-80              | 7   | 419 | 29   | 425 |
| 81-100             | 10  | 261 | 33   | 271 |
| 100+               | 1   | 0   | -    | 1   |
| Total              | 25  | 1,597 | 13   | 1,622 |

| East Midlands      | | | |
| 0-10              | 0   | 0   | 73   | 0   |
| 11-20             | 0   | 80  | 25   | 81  |
| 21-40             | 4   | 71  | 38   | 75  |
| 41-60             | 26  | 637 | 31   | 663 |
| 61-80             | 75  | 2,001 | 33 | 2,076 |
| 81-100            | 21  | 499 | 51   | 521 |
| 100+              | 4   | 91  | 93   | 95  |
| Total             | 131 | 3,380 | 21   | 3,510 |

### Table A.12 (continued)

<table>
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<th>Age class (years)</th>
<th>FC</th>
<th>Private sector</th>
<th>Total</th>
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</tr>
<tr>
<td></td>
<td>(000 m³ obs)</td>
<td>(000 m³ obs)</td>
<td>(000 m³ obs)</td>
</tr>
<tr>
<td>East England</td>
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</tr>
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<td>64</td>
</tr>
<tr>
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<td>0</td>
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<td>31</td>
</tr>
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<td>989</td>
<td>30</td>
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<td>61-80</td>
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<td>788</td>
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| South East England and London | | | |
| 0-10             | 0   | 7   | 78   | 7   |
| 11-20            | 1   | 153 | 28   | 154 |
| 21-40            | 1   | 748 | 16   | 750 |
| 41-60            | 17  | 1,187 | 17 | 1,204 |
| 61-80            | 20  | 2,998 | 16 | 3,018 |
| 81-100           | 9   | 1,068 | 20 | 1,077 |
| 100+             | 7   | 201  | 38   | 208 |
| Total            | 56  | 6,362 | 9   | 6,418 |

| South West England | | | |
| 0-10              | 0   | 0   | 56   | 7   |
| 11-20             | 1   | 184 | 25   | 185 |
| 21-40             | 5   | 1,465 | 19 | 1,470 |
| 41-60             | 31  | 2,142 | 15 | 2,173 |
| 61-80             | 27  | 1,417 | 17 | 1,443 |
| 81-100            | 9   | 2,010 | 21 | 2,019 |
| 100+              | 4   | 107  | 48   | 111 |
| Total             | 76  | 7,332 | 8   | 7,408 |

| West Midlands     | | | |
| 0-10              | 0   | 0   | 82   | 0   |
| 11-20             | 0   | 153 | 43   | 153 |
| 21-40             | 4   | 317 | 24   | 321 |
| 41-60             | 9   | 1,038 | 55 | 1,047 |
| 61-80             | 4   | 806  | 25   | 810 |
| 81-100            | 3   | 173  | 54   | 176 |
| 100+              | 1   | 646  | 41   | 646 |
| Total             | 20  | 3,133 | 22   | 3,154 |

103  NFI preliminary estimates for broadleaved species and ash
## Table A.12 (continued)

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Figure A.13  Standing volume by mean stand dbh class of ash for NFI regions
Table A.13: Standing volume by mean stand DBH class of ash for NFI regions

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NFI preliminary estimates for broadleaved species and ash
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107  NFI preliminary estimates for broadleaved species and ash
Number of measureable trees as at 31 March 2011

**Figure A.14** Numbers of trees by age class of ash for NFI regions

NFI preliminary estimates for broadleaved species and ash
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**Figure A.15** Numbers of trees by mean stand dbh class of ash for NFI regions
### Table A.15 Numbers of trees by mean stand DBH class of ash for NFI regions

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112  NFI preliminary estimates for broadleaved species and ash
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NFI preliminary estimates for broadleaved species and ash
## Appendix B: species list

### Table B.1  List of broadleaved species in the National Forest Inventory

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<td>Fagus orientalis</td>
<td></td>
</tr>
<tr>
<td>other broadleaves</td>
<td></td>
<td></td>
</tr>
<tr>
<td>other cherry spp</td>
<td>Prunus spp</td>
<td></td>
</tr>
<tr>
<td>other Eucalyptus</td>
<td>Eucalyptus spp</td>
<td></td>
</tr>
<tr>
<td>other Nothofagus</td>
<td>Nothofagus spp</td>
<td></td>
</tr>
<tr>
<td>other oak spp</td>
<td>Quercus spp</td>
<td></td>
</tr>
<tr>
<td>other poplar spp</td>
<td>Populus spp</td>
<td></td>
</tr>
<tr>
<td>other walnut</td>
<td>Juglans spp</td>
<td></td>
</tr>
<tr>
<td>Paper-bark birch</td>
<td>Betula papyrifera</td>
<td></td>
</tr>
<tr>
<td>Plane spp</td>
<td>Platanus spp</td>
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</tr>
<tr>
<td>Pyreanean oak</td>
<td>Quercus pyrenaica</td>
<td></td>
</tr>
<tr>
<td>Raoul/rauli</td>
<td>Nothofagus nervosa</td>
<td></td>
</tr>
<tr>
<td>Red oak</td>
<td>Quercus borealis</td>
<td></td>
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<tr>
<td>Roble</td>
<td>Nothofagus obliqua</td>
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</tr>
<tr>
<td>Rowan</td>
<td>Sorbus aucuparia</td>
<td></td>
</tr>
<tr>
<td>Shagbark hickory</td>
<td>Carya ovata</td>
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</tr>
<tr>
<td>Shining gum</td>
<td>Eucalyptus nitens</td>
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<tr>
<td>Silver maple</td>
<td>Acer saccharinum</td>
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<tr>
<td>Small-leaved lime</td>
<td>Tilia cordata</td>
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<tr>
<td>Smooth-leaved elm</td>
<td>Ulmus carpinifolia</td>
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<td>Tulip tree</td>
<td>Liriodendron tulipifera</td>
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</tr>
<tr>
<td>Turkey oak</td>
<td>Quercus cerris</td>
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<tr>
<td>White oak</td>
<td>Quercus alba</td>
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<tr>
<td>White poplar</td>
<td>Populus alba</td>
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<tr>
<td>Whitebeam</td>
<td>Sorbus aria</td>
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<tr>
<td>Wild cherry/gean</td>
<td>Prunus avium</td>
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<tr>
<td>Wild service tree</td>
<td>Sorbus torminalis</td>
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<tr>
<td>Wych elm</td>
<td>Ulmus glabra</td>
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