



Department for
Business, Energy
& Industrial Strategy

NATIONAL FORESTRY ACCOUNTING PLAN OF THE UNITED-KINGDOM

Forest Reference Level
for the Period 2021-2025

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OGL

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Chapter 1: General introduction

1.1: General description of the forest reference level of the United-Kingdom

The Land Use Land Use Change and Forestry (LULUCF) Regulation (EU 2018/841) was adopted by the European Union (EU) in May 2018. It provides both accounting rules for the LULUCF sector and sets a target that net accounted emissions in this sector be zero or less. Following article 6 of this regulation, Member States shall establish national forestry accounting plans (NFAP), including a proposed forest reference level (FRL) for the period from 2021 to 2025 and further guidance on how to do so was published by the European Commission in July 2018 (FRL guidance).

The FRL for the United Kingdom for the period 2021 to 2025 is -16,657.1 kilotonnes carbon dioxide equivalent per year ($\text{kt CO}_2\text{e yr}^{-1}$) including the contribution from harvested wood products (HWP), as calculated by applying the production approach and Tier 1 methods including default half-life values as defined in relevant guidance from the Intergovernmental Panel on Climate Change (IPCC Guidance).

The FRL not including the contribution from HWP, i.e. assuming a steady-state HWP pool, is -14,174.6 $\text{kt CO}_2\text{e yr}^{-1}$.

Following article 6(2) of the LULUCF Regulation, the UK has chosen to categorise cropland, grassland, wetland, settlements or other land converted to forest land as making the transition to forest land remaining forest land from 30 years after the date of conversion. This deviation from the default transition period of 20 years is discussed in Section 3.2.2, Chapter 3.

Contributions to emissions from biomass burning are included in the Natural Disturbance Background Level (300 kt carbon dioxide equivalent per year) in this initial FRL. No nitrous oxide emissions from fertilisation or methane emissions from drainage are estimated, as they are assumed to only take place, if at all, when land is converted to forest.

The FRL presented here has been adjusted for consistency with the UK's 1990-2016 greenhouse gases (GHG) Inventory. These GHG inventory results have been corrected for an error in the calculation for deadwood that was identified in the preparation of the version of the inventory to be submitted in to the EU and the United Nations Framework Convention on Climate Change (UNFCCC) in 2019.

1.2: Consideration to the criteria as set in Annex IV of the LULUCF Regulation

According to article 8(4) of the LULUCF Regulation, Member States shall determine their FRL based on eight criteria (a-k) below. This section described how the FRL established by the UK respect those criteria.

It also includes, as table 1.1, a description of where the various elements listed in section B of Annex IV of the LULUCF regulation are included in the present NFAP.

- (a) the reference level shall be consistent with the goal of achieving a balance between anthropogenic emissions by sources and removals by sinks of greenhouse gases in the second half of this century, including enhancing the potential removals by ageing forest stocks that may otherwise show progressively declining sinks;

The FRL has been set in a way that assumes a continuation of Forest Management Practices (FMPs) and patterns of biomass use as characterised for the Reference Period of 2000 to 2009. Hence, the FRL provides an incentive for actions that lead to greater removals compared with the continuation of existing practices and equally gives a disincentive for actions that lead to greater emissions.

The long-term development of the FRL follows the FMPs characterised for the Reference Period, but also allows for age related effects relevant for the UK forest area. The forest age class distribution in the UK is very skewed, particularly for productive coniferous forests, as a result of significant afforestation activities between 1920 and 1990, and particularly between 1950 and 1980. Relatively large areas of coniferous forest are currently reaching economic maturity and are being clearcut. The FRL is based on the assumption that these forest areas will be restocked, thereby maintaining the forest sink. This assumption is supported by the UK Forestry Act 1967, which allows felling licences to require restocking of forest stands in most cases. In the longer term, the FRL indicates lower levels of wood production than currently, reflecting a period during which restocked forest areas are regrowing and there is less potential for production whilst maintaining the forest sink.

- (b) the reference level shall ensure that the mere presence of carbon stocks is excluded from accounting;

Following the regulation, the FRL supports an accounting approach that covers net changes in forest carbon stocks, rather than the total existing carbon stocks in forests.

- (c) the reference level should ensure a robust and credible accounting system that ensures that emissions and removals resulting from biomass use are properly accounted for;

The FRL has been set in a way that assumes a continuation of Forest Management Practices and patterns of biomass use as characterised for the Reference Period of 2000 to 2009. Any changes to levels of harvesting or patterns of biomass use compared with those of the Reference Period will lead to accounted emissions or removals, as appropriate, depending on the nature of the changes.

- (d) the reference level shall include the carbon pool of harvested wood products, thereby providing a comparison between assuming instantaneous oxidation and applying the first-order decay function and half-life values;

The FRL has been reported with and without the contribution of HWP. Where the HWP contribution has been included, the production approach has been applied in conjunction with Tier 1 methods including default half-life values, as defined in relevant IPCC Guidance. For the FRL without HWP, the assumption has been made of a steady-state HWP pool.

-
- (e) a constant ratio between solid and energy use of forest biomass as documented in the period from 2000 to 2009 shall be assumed;

The ratio between solid and energy use of forest biomass was characterised for the Reference Period and has been applied for the construction of the FRL

- (f) the reference level should be consistent with the objective of contributing to the conservation of biodiversity and the sustainable use of natural resources, as set out in the EU forest strategy, Member States' national forest policies, and the EU biodiversity strategy;

The UK Forestry Standard specifies good forest management including criteria covering sustainable yield, conservation of biodiversity and natural resources such as water, as well as carbon stocks. This Standard, referring to countries' biodiversity strategies, and its supporting assurance scheme (UKWAS) have been existence since before the Reference Period of 2000 and 2009 and have been applied to the bulk of the UK forest area over this period. The major forest area in the UK not covered by the Forestry Standard and UKWAS consists of woodlands not historically or currently under active management for the production of timber. Additionally, all felling of more than 5 m³ in any calendar quarter requires a licence under the terms of the Felling Licence Regulations.

- (g) the reference level shall be consistent with the national projections of anthropogenic greenhouse gas emissions by sources and removals by sinks reported under Regulation (EU) No 525/2013;

The FRL has been constructed to ensure consistency by reporting all relevant forest carbon pools and based on the same methodologies and data referred to when reporting results under Regulation (EU) 525/2013.

- (h) the reference level shall be consistent with greenhouse gas inventories and relevant historical data and shall be based on transparent, complete, consistent, comparable and accurate information. In particular, the model used to construct the reference level shall be able to reproduce historical data from the National Greenhouse Gas Inventory.

The UK uses the same modelling framework for calculating the FRL and for calculating GHG Inventory results for Managed Forest Land. In addition, the forest strata characterised for the FRL calculations are the same as those used in calculating GHG Inventories. Hence, if the Forest Management Practices assumed in calculating a GHG inventory are used as inputs to the FRL modelling framework, the results are identical to those reported in the GHG Inventory for the pools and gases covered by the FRL.

Table 1.1: Equivalence table including explicit references of where the Annex IV B. elements are documented in the NFAP submission.

Annex IV B. paragraph item	Elements of the national forestry accounting plan according to Annex IV B.	Chapter of the NFAP containing the information
(a)	A general description of the determination of the forest reference level.	Sections 1.1 and 3.1
(a)	Description of how the criteria in LULUCF Regulation were taken into account.	Section 1.2
(b)	Identification of the carbon pools and greenhouse gases which have been included in the forest reference level.	Sections 2.1 and 4.1
(b)	Reasons for omitting a carbon pool from the forest reference level determination.	Section 2.1
(b)	Demonstration of the consistency between the carbon pools included in the forest reference level.	Section 2.2
(c)	A description of approaches, methods and models, including quantitative information, used in the determination of the forest reference level, consistent with the most recently submitted national inventory report.	Sections 3.1, 3.2 and 3.3. Annexes 1 to 6
(c)	A description of documentary information on sustainable forest management practices and intensity.	Sections 1.2 (f) and 2.3.1
(c)	A description of adopted national policies.	Section 2.3.1
(d)	Information on how harvesting rates are expected to develop under different policy scenarios.	Section 2.3.2
(e)	A description of how the following element was considered in the determination of the forest reference level:	See below
(i)	The area under forest management	Section 3.2.2, including tables 3.4 to 3.10, notably tables 3.9 and 3.10
(ii)	Emissions and removals from forests and harvested wood products as shown in greenhouse gas inventories and relevant historical data	Section 4.2
(iii)	Forest characteristics, including: - dynamic age-related forest characteristics - increments - rotation length and - other information on forest management activities under 'business as usual'	- Section 3.2.2, notably figures 3.2 and 3.3 - Annex 2 - Section 3.2.2 and annexes 4 and 5 - Annexes 3 and 5
(iv)	Historical and future harvesting rates disaggregated between energy and non-energy uses	Section 2.3.2 (not showing the share between energy and non-energy uses, which was assumed constant)

Chapter 2: Preamble for the forest reference level

2.1: Carbon pools and greenhouse gases included in the forest reference level

Consistent with the UK GHG Inventory, the following pools of carbon are included in calculating the FRL:

- Aboveground tree biomass (foliage, branchwood, stemwood and bark)
- Belowground biomass (coarse roots)
- Dead wood (standing and fallen)
- Litter
- Soil organic matter to a soil depth of 1 metre (including fine roots)
- Harvested wood products (HWP).

Biomass in understorey vegetation is not currently included.

2.2: Demonstration of consistency between the carbon pools included in the Forest Reference Level

The modelling framework applied for calculating the FRL (and also the GHG Inventory) is based on the principle of conservation of carbon. It follows that:

The accumulation or loss of carbon in the living biomass carbon pool is modelled explicitly as net carbon stock changes. Consistently defined gains associated with tree growth and losses associated with tree respiration and mortality are implicit in the carbon stock changes.

Losses from living biomass associated with tree harvesting are modelled explicitly.

Losses due to mortality enter the deadwood and litter pools or are lost from the system, according to defined turnover rates. Carbon lost from the system is implicitly assumed to be oxidised to the atmosphere.

The turnover of deadwood and litter results in losses to the atmosphere or inputs to soil organic matter. In principle, deadwood (i.e. forest residues) could be lost through harvesting but this practice is rare in the UK.

The accumulation or loss of carbon in the deadwood and litter pools is the net result of the inputs from the living biomass pool and losses from turnover.

There are also losses of soil organic matter, according to defined turnover rates.

The accumulation or loss of carbon in the soil carbon pool is the net result of inputs from deadwood or litter and losses from turnover.

Harvested wood is oxidised to the atmosphere as part of wood processing or when burnt for energy purposes or otherwise enters the HWP carbon pool. Losses of carbon from the HWP carbon pool occur according to the half-lives of defined HWP commodity classes.

The accumulation or loss of carbon in the HWP carbon pool is the net result of inputs from harvesting and losses from processing, burning or disposal of HWP.

The modelling framework involves an approach that ensures that changes in carbon stocks in the pools described above are consistent. For example, an increase in the carbon stock in HWP must involve a commensurate decrease in the carbon stock in living biomass. In this way, changes in carbon stocks in deadwood, litter, soil and HWP can be traced back to carbon stock changes in living biomass, ensuring that gains and losses associated with each carbon pool (represented implicitly) are consistent. Further description of the modelling approach is given in Section 3.1.

2.3: Description of the long-term forest strategy

2.3.1: Overall description of the forests and forest management in the United Kingdom and the adopted national policies

Forestry policy is devolved in the UK and so forestry policy is led by the Department for Environment, Food and Rural Affairs in England, the Department of Agriculture, Environment and Rural Affairs in Northern Ireland, the Scottish Government in Scotland and the Welsh Government in Wales. Gibraltar does not have any forest land. All four countries have established policies for woodland creation, currently co-financed through the EU Rural Development Programme. The development of the Woodland Carbon Code, including its launch on an international carbon registry is attracting private and corporate funding additional to the Rural Development Programme. A revised UK Forestry Standard (UKFS), including Guidelines on Forests and Climate Change, was published in July 2017. The requirement for climate change mitigation is that 'forest management should contribute to climate change mitigation over the long term through the net capture and storage of carbon in the forest ecosystem and in wood products'. Meeting the requirements of the UKFS is a condition of grant-aid, and also underpins both the Woodland Carbon Code and forest certification under the UK Woodland Assurance Standard. A strong regulatory framework continues to protect existing woodland from deforestation and degradation.

The Clean Growth Strategy (CGS) was published in October 2017 and sets out broad aspirations to enhance the rate of afforestation and use of timber in construction in an illustrative pathway towards meeting the UK's fifth carbon budget (2028-32) and to generate longer term emissions reductions. The fifth carbon budget is set in regulations under the Climate Change Act at 1,725 Mt CO₂e requiring

annualised emissions over the period 2028 to 2032 to be 57% lower than they were in 1990. This includes LULUCF sector emissions. The CGS also committed to ‘set up a stronger and more attractive domestic carbon offset market that will encourage more businesses to support cost effective emissions reductions, such as through planting trees’ and to ‘unlock private finance to invest in forestry by establishing forestry investment zones to offer investors streamlined decision making and more certainty, within shorter timelines’.

England, Scotland and Wales also have established Strategies that aim to increase the contribution of both existing and new woodlands to renewable energy production. For example, the supply of small to medium scale heat in off gas grid areas is the focus of Forestry Commission England’s Woodfuel Implementation Plan, which is supported by renewable energy policies including the Renewable Heat Incentive.

England

In England, the government’s 25 year Environment Plan published in January 2018 includes an aspiration to increase woodland cover from 10% to 12% by 2060, with 180,000ha more woodland by 2042. The plan includes a focus on woodland to maximise their benefits, including aims at planting a Northern Forest, support larger scale woodland creation and appointing a national Tree Champion.

The Environmental Impact Assessment (Forestry) Regulations were revised in May 2017, requiring more information to be provided by proposers of afforestation projects, while increasing the EIA threshold in areas mapped as low risk if a UKFS woodland creation plan is submitted. The objective of raising the threshold was to encourage the planting of larger woodlands, in part, to contribute to emissions reduction. The design of larger scale productive woodlands is supported through the Woodland Creation Planning Grant (from 2015), while their establishment is financed through the Woodland Carbon Fund (from 2016). A policy on when to convert woods and forests to open habitats in England is in place, which includes an assessment of implications for carbon balance in the process of prioritising sites for restoration. The development of a thriving forestry sector, through an industry-led action plan (Grown in Britain), is highlighted as an essential element to achieve woodland planting aspirations and deliver emissions savings in other sectors through the sustainable use of woodfuel as a source of renewable energy and harvested wood products substituting for other materials.

Scotland

In Scotland, forestry is recognised as having an important role in contributing to emissions reduction targets through carbon storage and sequestration which is a specific objective of woodland creation. The Scottish Government is committed to expand this important carbon sink and the 2018 Programme for Government spells out the support to a growing forestry industry to contribute to climate change targets. The Climate Change Plan (third report on policies and proposals, 2018) sets out how the Scottish Government will meet its greenhouse gas emission reduction targets for the period 2017-2032 and includes a policy on increasing the long term annual woodland creation from the current 10 000 hectares of new woodland per year to 15 000 hectares per year from 2024/25. To complement woodland creation, a framework to better control woodland removal is also in place. The plan also

includes a policy to further increase emissions abatement through greater use of Scottish timber in building construction and refurbishment.

These targets will be taken forward in a sustainable way and require the creation of different woodland types, in the right places and for the right purposes. To expand the area of native woodlands, the Scottish Government is committed to supporting the creation of at least 3 000 hectares of new native woodland a year, as part of the climate change targets (Scottish Biodiversity Strategy: Route Map 2020).

To support the delivery of the draft Climate Change Plan, the Forestry Grant Scheme offers financial support for the creation of new woodland and the sustainable management of existing woodland. All applications are assessed against the UK Forestry Standard and associated guidelines.

The Forestry and Land Management (Scotland) Act 2018 was introduced to replace the 1967 Forestry Act in Scotland. The Bill includes duties on Ministers to promote sustainable forest management and to publish a forestry strategy which will set out the Government's priorities in relation to the economic, environmental and social benefits of forestry. The draft Forestry Strategy was published in 2018 to provide a 10-year framework for action to achieve a 50-years vision for Scotland's woodlands and forests. The vision is based on a long term commitment to sustainable modern forestry as a key land use and a sustained programme of woodland expansion.

The Forestry (Environmental Impact Assessment) (Scotland) Regulations 2017 came into force in May 2017, driven by EU EIA Directive 2014 that aims to streamline aspects of the EIA process and improve transparency and consistency in EIA practice across a number of regimes. The main changes include an increase of the threshold for afforestation projects outside sensitive areas from 5 to 20 hectares to secure a more effective way in assessing woodland creation applications to contribute to emission reductions. The 2017 Regulations have been reflected in new guidance and training.

The new strategy "[Roots for Further Growth](#)" is the economic strategy for Scotland's forest and timber technology sector to 2030. It was published in 2018 by the Scottish Forest and Timber Technologies Industry Leadership Group. It sets their ambition for growth until 2030 and includes an action plan, which is supported by Scottish Government.

Wales

To promote sustainable land use, "Woodlands for Wales" is the Welsh Government's fifty-year Strategy. It is the Welsh Government's aim to achieve at least the minimum planting rate of 2,000 hectares each year from 2020 which has been recommended by the UK Climate Change Committee and over time to increase planting to levels that enable Wales to deliver the legal obligation entered into with the Environment (Wales) Act 2016 to reduce emissions by 80% from their pre-1990 levels by 2050."

Northern Ireland

The duties and powers of the Forest Service are set out in the Forestry Act (Northern Ireland) 2010. Forest policy is to expand the area under forest and to manage forests sustainably, so as to supply a wide range of forestry services. These are chiefly

timber, public access and environmental services. 25% of the Forest Service estate is designated as protected area for one or more conservation interests. Privately owned forests are subject to certain provisions of the Act, and this and support for forest expansion is administered by the Forest Service. The Forest Service holds both Forestry Stewardship Council (FSC) and Programme for the Endorsement of Forestry Certification (PEFC) accreditation for its standard of forest management, certifying that it manages its forests in a sustainable manner. The policy set out in the 2006 Forestry Strategy is to steadily expand tree cover and to manage woods and forests sustainably. This policy aims to steadily expand tree cover with the aim of increasing forest cover to 12% of land area by 2050. The intention is to provide new woodland supplying a range of ecosystem services including: public access; carbon capture; timber production and biodiversity. An additional programme, the Rural Development Programme, provides a basis for the continued promotion of forest expansion by private landowners and public bodies through grant aid. Under this programme approximately 200 hectares of new forest planting annually will be grant aided until 2020.

2.3.2: Description of future harvesting rates under different policy scenarios

Currently, there are no published forecasts of potential future wood production in the UK involving scenarios for the management of forest land explicitly related to climate change policy. The Forestry Commission (2014ab) has published forecasts for several scenarios exploring the possible impacts of policies related to the promotion of biodiversity and rural development through the management of forest areas in Great Britain. In broad terms, amongst other factors, these scenarios explore changes to existing forest management practices involving:

- Creation of more open space within forests or restocking with broadleaves when clearcutting coniferous forest areas, in order to comply with UKFS.
- Mobilisation of some or all of the available wood resource in broadleaved forest areas, where these are currently unmanaged. This aims at improving habitat quality in response to the peculiar nature of woodlands in the UK where most have been managed in the past and are now “undermanaged”, leading to them being over-stood/dense but not approaching “old-growth” status.

The scenarios also looked at the impacts of varying clearcutting rotations on the magnitude and time course of wood production.

For coniferous forests in Great Britain, the scenarios suggest that wood production may be sustained or could potentially increase over the next 10 to 15 years, at between 10 and 12.5 million cubic metres per year over bark standing. However, all scenarios suggest that wood production from coniferous forests is likely to drop in the later part of this century, to between 6 and 8 million cubic metres per year. This is illustrated in Figure 2.1 which shows 50-year forecasts for three scenarios of wood production from coniferous forests in Britain over a 50 year period from 2011 (Forestry Commission, 2014a). The drop in wood production reflects high rates of afforestation between 1920 and 1990, which has created a skewed age distribution within coniferous forest areas. The scenarios illustrated in Figure 2.1 vary principally

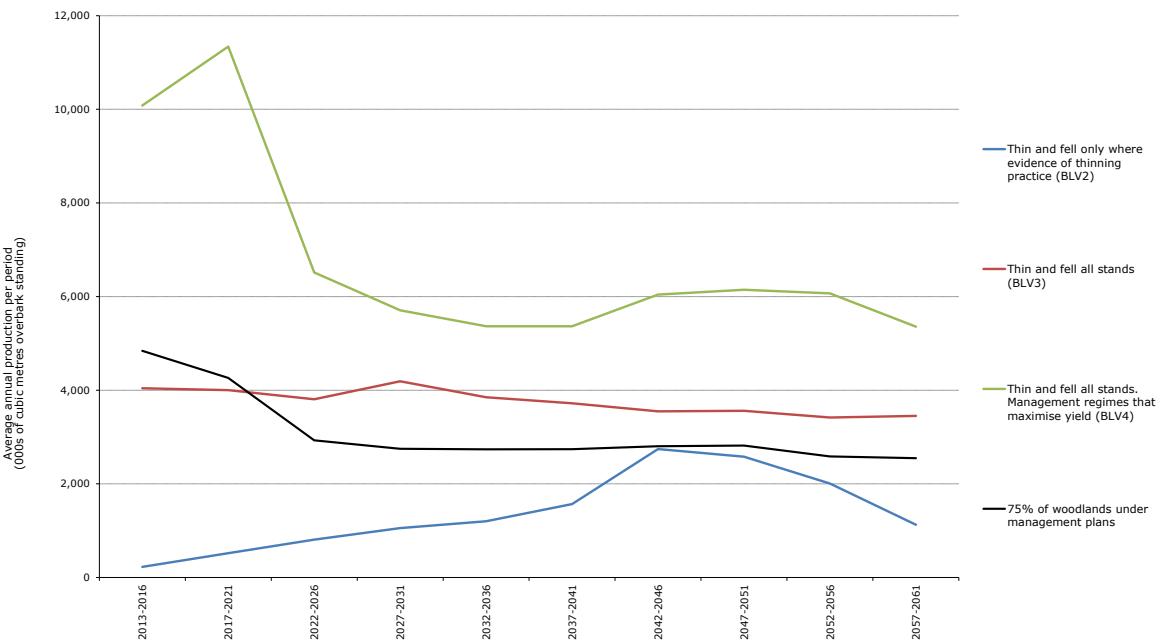
in terms of the assumed rotations and proportions of forest area restocked on clearcutting. These scenarios affect the detailed time course of wood production but not the general trends.

Figure 2.1. Forecast of wood production from coniferous forests in Britain for 50 years from 2011, showing three possible scenarios for harvesting and restocking.



For broadleaved forests in Great Britain, statistics suggest that wood production has been declining since the 1970s (Forestry Commission, 2018). The statistics and the forecast scenarios suggest that currently commercial hardwood production is very low (less than 1 million cubic metres per year over bark standing). However, the forecast scenarios also suggest that there could be significant potential to increase production to between 3 and 6 million cubic metres per year by introducing active management in broadleaved forest areas that are currently unmanaged (Forestry Commission, 2014b). This is illustrated in Figure 2.2 which shows 50-year forecasts for four scenarios of wood production from broadleaved forests in Britain over a 50 year period from 2011 (Forestry Commission, 2014b). The blue line in Figure 2.2 effectively represents business as usual management of broadleaved forests with the other results representing theoretical wood mobilisation scenarios.

Figure 2.2. Forecast of wood production from broadleaved forests in Britain for 50 years from 2011, showing four possible scenarios for mobilisation of the wood resource.



The construction of the FRL is based on the assumption that forest management characterised for a Reference Period of 2000 to 2009 is continued into the future. None of the above scenarios are exactly consistent with such an assumption. However, a forecast of wood production from coniferous forests based on assumptions developed for the FRL should have the same order of magnitude as indicated by the scenarios in Figure 2.1 and show a similar longer term trend. For broadleaved forests, a forecast based on assumptions developed for the FRL should be similar to the blue line in Figure 2.2. However the forest statistics for the 2000-2009 period are focussed on commercial wood harvest being derived from sawmill returns, and underestimate non-commercial hardwood harvest. Improved statistics on non-commercial hardwood harvest might result in a technical correction of the FRL.

Chapter 3: Description of the modelling approach

3.1: Description of the general approach as applied for estimating the forest reference level

This section describes the general approach applied for estimating the FRL and a related approach to estimating the contribution of managed land to CO₂ emissions and removals, as applied in UK GHG inventories. An appreciation of the approach taken in GHG inventories is helpful for understanding the approach taken for the FRL, and in particular where differences in methods are involved.

The essential steps involved in estimating the CO₂ emissions and removals of Managed Forest Land for a GHG inventory are described in Box 3.1. The variations in these steps applied for the purposes of constructing the FRL are described in Box 3.2. The modelling methodologies in Boxes 3.1 and 3.2 are applied separately to data available for each country (England, Scotland, Wales and Northern Ireland) and for coniferous and broadleaved forest areas.

Box 3.1 Essential steps in modelling Managed Forest Land for GHG Inventory calculations

Step 1. Stratify the forest area according to the following classification:

- Country (England, Scotland, Wales, Northern Ireland)
- Forest ownership (public forest estate and private sector)
- Tree species (as represented in the CARBINE model, see Section 3.3)
- Yield class (potential growth rate, see Matthews et al., 2016a)
- High-level management type
- Soil class (mineral, organic).

The approach to stratification is discussed in more detail in Section 3.2.1. There are four possible high-level management types:

1. No harvesting (no thinning and no clearcutting)
2. No thinning with clearcutting
3. Thinning with clearcutting

-
4. Continuous thinning (harvesting by thinning involving the continuous maintenance of forest cover, i.e. without clearcutting).

Step 2. Assume that any thinning is carried out according to standard prescriptions as described in British Forestry Commission yield tables (Matthews et al., 2016ab). Essentially this involves:

- Specifying a recommended age of first thinning (based on a standard yield table)
- Harvesting every 5 years from the age of first thinning
- Harvesting a prescribed fixed stem volume at each thinning (defined in terms of harvested standing timber over bark, based on a standard yield table)
- After forests have reached economic maturity, harvesting a gradually diminishing stem volume at each thinning (defined in terms of harvested standing timber over bark, based on a standard yield table), unless managing based on continuous thinning, in which case the fixed thinning volume is maintained.

For some tree species, the first thinning may involve harvesting a different volume compared with the prescribed fixed stem volume mentioned above. These cases may be regarded as pre-commercial thinnings.

Step 3. For each stratum involving a high-level management type of 2 or 3 (i.e. involving clearcutting), specify a range of rotation ages (minimum to maximum) which may be applied. Generally, these rotations reflect either economic or silvicultural principles, being around the time of maximum volume production for conifers and similarly for broadleaves, although rotations may be extended to increase sawlog production in broadleaves (Matthews et al., 2016ab).

Step 4. Derive the age distribution for each stratum based on data available from the most recent National Forest Inventory (NFI) or similar data source (e.g. management records maintained for the public forest estate).

Step 5. Use the following inputs to an optimisation procedure:

- The age distribution for each stratum
- The high-level management types assigned to each stratum (including rotation ranges)
- Records for annual afforestation rates since 1920
- Reported statistics on annual wood production (softwood and hardwood) since 1975.

The optimisation procedure involves:

- Adjusting the specific rotations applied to strata (within the specified ranges) and
- Adjusting the allocation of forest areas in private ownership between high-level management type 1 (no harvesting) on the one hand and the other high-level forest management types on the other hand.

The optimisation procedure constructs an annual sequence for the creation of forest areas in each stratum (which may be referred to as a “planting sequence”), that best matches (or reconciles with) the input age distribution, annual afforestation rates and reported wood production.

Step 6. Compile a set of input data for the CARBINE forest sector accounting model consisting of:

- The parameters defining each stratum (including the detailed rotations, where relevant)
- The annual sequence for the creation of forest areas in each stratum.

Step 7. Run the CARBINE model using the input data prepared in Step 6 and process the outputs for reporting as part of a GHG inventory.

Box 3.2 Essential steps in modelling Managed Forest Land for FRL calculations

FRL Step 1. Start with the forest strata and the “planting sequence” for each stratum as modelled for the latest GHG Inventory (see Steps 1-5, Box 3.1).

FRL Step 2. Based on available evidence from data sources, estimate new rotations to be applied to the forest areas forming the planting sequences specifically representative of management during the Reference Period 2000-2009. Assign these revised rotations to the planting sequence.

FRL Step 3. Taking the planting sequences and the new management prescriptions, calculate the predicted wood production in the Reference Period 2000-2009.

FRL Step 4. Compare the predicted wood production from FRL Step 3 with reported wood production (from statistics) for the Reference Period 2000-2009. If the predicted and reported wood production are in good agreement, then proceed to FRL Step 5. Otherwise, adjust the allocation of forest areas in private ownership between high-level management type 1 (no harvesting) on the one hand and the other high-level forest management types on the other hand to obtain good agreement.

At the end of this step, a relevant set of input data to project the FRL with the CARBINE forest sector accounting model is available. It consists of:

- The planting sequence for each stratum.
- The parameters defining the management of each stratum (i.e. including proportion of area not in management for production and the FRL rotations, where relevant).

FRL Step 5. Run the CARBINE model using the input data prepared in FRL Step 4 and process the outputs to calculate an initial FRL.

FRL Step 6. Compare the initial FRL to the total GHG removals in the GHG inventory between 2000 and 2009 to calculate a correction factor using the IPCC overlap method. The corrected results constitute the final FRL.

The modelling framework used to implement the calculation steps described in Boxes 3.1 and 3.2 are constructed around the CARBINE forest sector accounting model, which implements the calculation of forest carbon stocks and stock changes.

The CARBINE model is described further in Section 3.3 and in more detail in a report currently being prepared (Matthews et al., 2019).

The essential function of the optimisation methodologies implemented in various steps of boxes 3.1 and 3.2 is to construct a historical sequence describing the annual creation of areas of forest, or “planting sequence”. This planting sequence is used as input data to the CARBINE model, which grows the forest areas forward

through time, and calculates the development of the forest area age class distribution and carbon stocks and stock changes. For the GHG Inventory, the planting sequence is derived directly from the forest area age class distribution reported in the latest NFI and other relevant data sources (Step 4, Box 3.1), and the management parameters applied to the forest strata, the simulated forest area age class distribution produced by the CARBINE model is a good match for the reported distribution. The CARBINE simulation for the FRL also uses the planting sequence derived for the GHG Inventory but applies management parameters applicable for the Reference Period of 2000-2009 across the whole simulation period. If the management parameters characterised for the Reference Period are significantly different to those applied in the GHG Inventory, then the simulated forest area age class distribution for the FRL projection will develop differently to that simulated for the GHG Inventory. The forest area age class distributions simulated for the FRL in the NFI reporting year will be different to the reported distribution. Moreover, the forest area age class distributions simulated for the Reference Period for the GHG Inventory and the FRL will also be different.

3.2: Documentation of data sources as applied for estimating the forest reference level

3.2.1: Documentation of stratification of the managed forest land

The development of estimates of GHG emissions and removals, as reported for Managed Forest Land in UK GHG Inventories, is based on several sources of data as shown in Table 3.1. These data sources were also referred to in defining the forest strata for the development of the FRL. The forest area of the United Kingdom is summarised in Table 3.2.

When reporting GHG inventories, the UK defines a forest as having a minimum area of 0.1 ha and a minimum width of 20 m, together with a tree canopy cover of 20% and a potential tree height of 2 m. This definition has also been adopted for the purposes of constructing the FRL.

The National Forest Inventory (Forestry Commission, 2012) reports on forest areas for a minimum area of 0.5 ha, hence this information has been supplemented with additional data from a separate NFI study that identified small woodlands (Forestry Commission, 2017).

The data in Table 3.2 are the result of combining information from several sources (see Table 3.1) with different reporting years (i.e. 2011 for private forests, 2014 for public forests and 2016 for small woodlands in England, Scotland and Wales, and 2013 for forest areas in Northern Ireland).

Forestry statistics for the UK suggest a total forest area of nearly 3.5 million hectares, including about 404 thousand hectares of non-wooded areas. There are significant forest areas in England, Scotland, Wales and Northern Ireland, although the area in Northern Ireland is relatively small (less than 5% of the UK forest area).

Table 3.1 Data sources for the development of forest strata

Forest characteristics	Data references	Stratum ID where the characteristics and reference are relevant
Area of strata		
1) Public forests (England, Scotland, Wales)	SCDB, 2014; Forestry Commission, 2014c	Tables 3.2, 3.4, 3.5, 3.6, 3.7 and Annexes 2 and 6
2) Private forests (England, Scotland, Wales)	Forestry Commission, 2014c	Tables 3.2, 3.4, 3.5, 3.6, 3.7 and Annexes 2 and 6
3) Northern Ireland forests (Public and Private)	NIFS, 2013	Tables 3.2 and 3.8 and Annexes 2 and 6
4) Small woodlands (England, Scotland, Wales)	Forestry Commission, 2017	Tables 3.2, 3.4, 3.5, 3.6, 3.7 and Annexes 2 and 6
Historical afforestation		
1) England, Scotland and Wales (Public and Private)	Forestry Commission records (see Cannell and Dewar, 1995)	Box 3.1 (Section 3.1)
2) Northern Ireland (Public and Private)	Cannell et al., 1996	Box 3.1 (Section 3.1)
Soil class	Webb et al. (2013)	Section 3.2.1

Table 3.2 Summary of United Kingdom forest areas

Country	Ownership	Coniferous	Broadleaved	Total wooded	Non-wooded	Total
England	Public	117 130.6	48 746.6	165 877.2	49 122.8	215 000
	Private	206 022.8	1 116 635.4	1 322 658.2	51 741.8	137 4400
	Total	323 153.4	1 165 382.0	1 488 535.4	100 864.6	1 589 400
Scotland	Public	334 966.6	30 227.0	365 193.6	112 806.4	478 000
	Private	533 598.8	318 437.6	852 036.4	106 163.6	958 200
	Total	868 565.4	348 664.6	1 217 230.0	218 970.0	1 436 200
Wales	Public	80 776.6	13 567.7	94 344.3	22 655.7	117 000
	Private	52 473.2	157 184.2	209 657.4	26 542.6	236 200
	Total	133 249.8	170 751.9	304 001.7	49 198.3	353 200
N. Ireland	Public	47 321.0	2 267.3	49 588.3	20 264.7	62 000
	Private	9 295.2	12 470.4	21 765.6	14 381.4	44 000
	Total	56 616.2	14 737.7	71 353.9	34 646.1	106 000
UK	Public	580 194.8	94 808.6	675 003.4	204 849.6	872 000
	Private	801 390.0	1 604 727.6	2 406 117.6	198 829.4	2 612 800
	Total	1 381 584.8	1 699 536.2	3 081 121.0	403 679.0	3 484 800

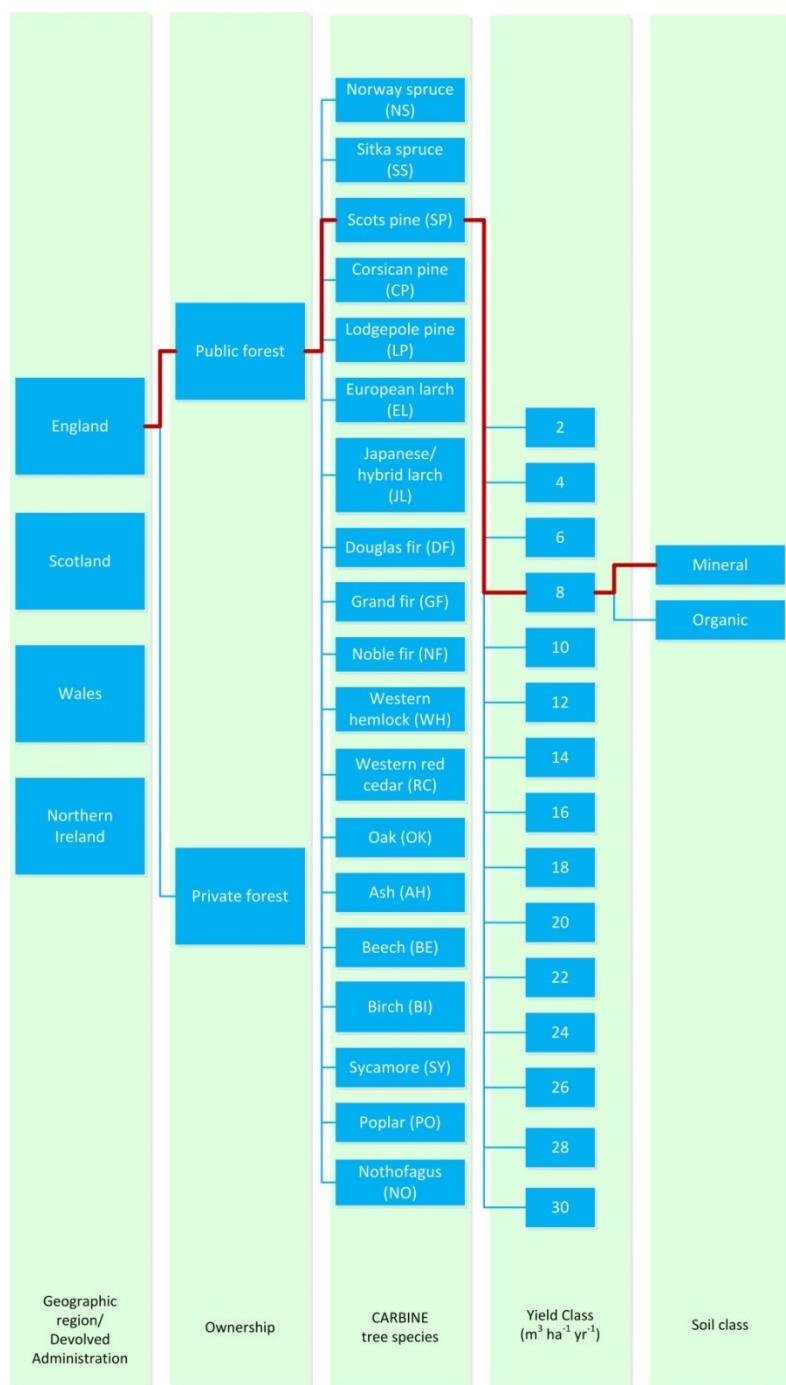
Note: Coniferous, broadleaved and total wooded areas are based on areas reported in the GB NFI for a forest inventory year of 2011 and the Northern Ireland Woodland Basemap for 2013 in conjunction with records for the Public forest estates, also including areas for small woodlands in England, Scotland and Wales (between 0.1 and 0.5 ha in area). This combination of areas may differ from total forest areas reported by the UK and its Devolved Administrations.

Approach to stratification

As described in Section 3.1 (Box 3.1), and also illustrated in Figure 3.1 below, forest areas in the UK were stratified according to the following classification:

- Country (England, Scotland, Wales, Northern Ireland)
- Forest ownership (public forest estate and private sector)
- Tree species (as represented in the CARBINE model, see Section 3.3)
- Yield class (potential growth rate, see Matthews et al., 2016)
- High-level management type
- Soil class (mineral, organic).

Figure 3.1. Illustration of steps in forest area stratification



The CARBINE model (see Section 3.3) explicitly represents 19 major tree species found in UK forests, as listed in Table 3.3. As shown in Figure 3.1 above, forest areas are classified into even-numbered yield classes between 2 and $30 m^3 \text{ ha}^{-1} \text{ yr}^{-1}$ (see Matthews et al., 2016ab).

Table 3.3 Tree species represented in the CARBINE model and used in forest area stratification

Common species name	Latin name	CARBINE species code
Norway spruce	<i>Picea abies</i>	NS
Sitka spruce	<i>Picea sitchensis</i>	SS
Scots pine	<i>Pinus sylvestris</i>	SP
Corsican pine	<i>Pinus nigra</i> subspecies (ssp.) Laricio	CP
Lodgepole pine	<i>Pinus contorta</i>	LP
European larch	<i>Larix decidua</i>	EL
Japanese/hybrid larch	<i>Larix kaempferi</i> /L.	JL
Douglas fir	<i>Pseudotsuga menziesii</i>	DF
Grand fir	<i>Abies grandis</i>	GF
Noble fir	<i>Abies procera</i>	NF
Western hemlock	<i>Tsuga heterophylla</i>	WH
Western red cedar	<i>Thuja plicata</i>	RC
Oak	<i>Quercus</i> species <i>pluralis</i> (spp.)	OK
Ash	<i>Fraxinus excelsior</i>	AH
Beech	<i>Fagus sylvatica</i>	BE
Birch	<i>Betula</i> spp.	BI
Sycamore	<i>Acer pseudoplatanus</i>	SY
Poplar	<i>Populus</i> spp.	PO
Nothofagus	<i>Nothofagus</i> spp.	NO

Handling of minor tree species

Forest inventory information in the UK recognises the existence of more than 150 tree species or species groups. It will be apparent that the great majority of these are not represented explicitly in the CARBINE model (see Table 3.3 above). However, the tree species not included in Table 3.3 are minor in terms of area within the UK forest estate. When making calculations for GHG inventories and for the development of the FRL, minor species are represented in modelling by associating them with the most suitable tree species listed in Table 3.3, in terms of genus and/or growth rate, based on expert judgement. A table giving details of the handling of minor tree species is given in Annex 1.

Detailed forest strata

The tables in Annex 2 show the detailed breakdown of forest area in the UK according to country, ownership, CARBINE tree species and yield class. This information is given in an Annex because of the very large number of strata (more than 1,000 in total). However, it should be noted that detailed information on the breakdown of the forest area in Northern Ireland by tree species and yield class is

not available separately for the public forest estate and private sector. Hence, tree species and yield classes have been allocated to the public forest estate and private sector on a pro-rata basis (i.e. referring to the total areas of coniferous and broadleaved forest in public and private ownership, see Table 3.2). Strictly, a single set of strata with respect to tree species and yield class can be applied for public and private forests combined in Northern Ireland, which would reduce the total number of strata.

Stratification with respect to soil classes

The stratification of forest areas according to soil classes (mineral, organic) involves the following assumptions, reflecting historical tree planting practices in the UK:

- All forests on organic soils have been planted in the period since 1920, with a peak rate of planting between 1970 and 1990
- All forests planted on organic soils are coniferous.
- The distribution of coniferous tree species and yield classes planted on either organic or mineral soils is the same – this assumption is made in the absence of evidence to suggest the distributions may be different.

The proportions of total forest area on organic soils in Great Britain have been estimated through comparison of the NFI map with soil maps (Webb et al., 2013), giving estimates for the percentage of forest area on organic soils in England, Scotland and Wales of 4.9%, 16.0% and 4.9%, respectively.

For Northern Ireland, the area of coniferous forest on organic soils is understood to be relatively high and has been estimated as 50%.

3.2.2: Documentation of sustainable forest management practices as applied in the estimation of the forest reference level

As explained in Section 3.1 (see Box 3.1), the development of GHG Inventories and the FRL involves stratifying the forest area in the UK (see Section 3.2.1) and then assigning four possible high-level management types to these strata:

- No harvesting (no thinning and no clearcutting)
- No thinning with clearcutting
- Thinning with clearcutting
- Continuous thinning (harvesting by thinning involving the continuous maintenance of forest cover, i.e. without clearcutting).

Forest strata in England, Scotland, Wales and Northern Ireland, under public and private ownership, were first assigned to each of these four management types, and then each stratum was assigned a detailed FMP. The methodology applied to work out the assignment of high-level management types and the detailed FMPs to forest areas is described subsequently.

Table 3.4 summarises the assignment of coniferous and broadleaved areas to the high-level management types to forest areas in the UK. Tables 3.5, 3.6, 3.7 and 3.8 show the disaggregated results for England, Scotland, Wales and Northern Ireland respectively. Note that the non-wooded areas shown in Table 3.2 (Section 3.2.1) are not relevant (since there are no trees on this component of the forest land), hence these were assigned a “null” FMP (i.e. no relevant management).

The relative areas of each forest stratum associated with each high-level management type were estimated based on:

- An analysis of management information recorded in databases maintained for the public forest estate in England, Scotland and Wales.
- Assumptions about levels of management and thinning (and non-thinning) of forest areas made as part of a forecasting exercise undertaken by the Forestry Commission for the private sector in England, Scotland and Wales in 2006 (Halsall et al., 2006).
- Expert judgement for forest areas in Northern Ireland (for example, it is understood that almost no commercial management involving harvesting takes place in broadleaved forest areas in Northern Ireland).

The relative area in each stratum assigned to the high-level forest management type of “no harvesting” was refined as part of the subsequent process of reconciling forest management assumptions with the forest age class distribution and reported levels of commercial wood production (see Section 3.1, Boxes 3.1 and 3.2). This refinement ensures that the assumptions taken for the private sector are consistent with the harvest rates observed over the period 2000-2009, hence adjusting the assumptions made about current and future production made in the original 2006 forecasting exercise, which are used as initial inputs to the modelling, given the limited data available describing details of actual management for the private sector.

Table 3.4 Summary of forest areas in the UK showing assignment of high-level management types

Ownership	Coniferous/ broadleaved	Forest area by management type (ha)					Percentage of total area				
		No harvesting	No thinning with clearcutting	Thinning and clearcutting	Continuous cover	Total	No harvesting	No thinning with clearcutting	Thinning and clearcutting	Continuous cover	
Public	Coniferous	27 670.5	265 845.1	182 545.8	104 133.5	580 194.8	4.8	45.8	31.5	17.9	
	Broadleaved	56 981.1	117.6	109.1	37 600.8	94 808.5	60.1	0.1	0.1	39.7	
	Total	84 651.5	265 962.7	182 654.9	141 734.2	675 003.4	12.5	39.4	27.1	21.0	
Private	Coniferous	287 616.2	357 677.6	156 096.3	0.0	801 390.0	35.9	44.6	19.5	0.0	
	Broadleaved	1 459 843.9	646.8	144 236.9	0.0	1 604 727.6	91.0	0.0	9.0	0.0	
	Total	1 747 460.0	358 324.4	300 333.2	0.0	2 406 117.6	72.6	14.9	12.5	0.0	
All	Coniferous	315 286.6	623 522.7	338 642.1	104 133.5	1 381 584.9	22.8	45.1	24.5	7.5	
	Broadleaved	1 516 824.9	764.4	1 443 46.0	37 600.8	1 699 536.1	89.2	0.0	8.5	2.2	
	Total	1 832 111.6	624 287.1	482 988.1	141 734.2	3 081 121.0	59.5	20.3	15.7	4.6	

Table 3.5 Summary of forest areas in England showing assignment of high-level management types

Ownership	Coniferous/ broadleaved	Forest area by management type (ha)					Percentage of total area				
		No harvesting	No thinning with clearcutting	Thinning and clearcutting	Continuous cover	Total	No harvesting	No thinning with clearcutting	Thinning and clearcutting	Continuous cover	
Public	Coniferous	0.0	31 640.7	53 577.2	31 912.7	117 130.6	0.0	27.0	45.7	27.2	
	Broadleaved	17 031.5	0.0	0.0	31 715.1	48 746.6	34.9	0.0	0.0	65.1	
	Total	17 031.5	31 640.7	53 577.2	63 627.8	165 877.3	10.3	19.1	32.3	38.4	
Private	Coniferous	149 769.4	18 015.6	38 237.8	0.0	206 022.8	72.7	8.7	18.6	0.0	
	Broadleaved	1 001 343.9	0.0	115 291.6	0.0	1 116 635.4	89.7	0.0	10.3	0.0	
	Total	1 151 113.2	18 015.6	153 529.4	0.0	1 322 658.3	87.0	1.4	11.6	0.0	
All	Coniferous	149 769.4	49 656.4	91 815.0	31 912.7	323 153.5	46.3	15.4	28.4	9.9	
	Broadleaved	1 018 375.4	0.0	115 291.6	31 715.1	1 165 382.1	87.4	0.0	9.9	2.7	
	Total	1 168 144.8	49 656.4	207 106.6	63 627.8	1 488 535.5	59.5	20.3	15.7	4.6	

Table 3.6 Summary of forest areas in the Scotland showing assignment of high-level management types

Ownership	Coniferous/ broadleaved	Forest area by management type (ha)					Percentage of total area				
		No harvesting	No thinning with clearcutting	Thinning and clearcutting	Continuous cover	Total	No harvesting	No thinning with clearcutting	Thinning and clearcutting	Continuous cover	
Public	Coniferous	8 885.9	190 362.8	84 437.9	51 280.0	334 966.6	2.7	56.8	25.2	15.3	
	Broadleaved	29 518.6	0.0	0.0	708.4	30 227.0	97.7	0.0	0.0	2.3	
	Total	38 404.5	190 362.8	84 437.9	51 988.3	365 193.5	10.5	52.1	23.1	14.2	
Private	Coniferous	113 477.7	321 010.3	99 110.9	0.0	533 598.8	21.3	60.2	18.6	0.0	
	Broadleaved	296 703.8	0.0	21 733.8	0.0	318 437.6	93.2	0.0	6.8	0.0	
	Total	410 181.5	321 010.3	120 844.7	0.0	852 036.4	48.1	37.7	14.2	0.0	
All	Coniferous	122 363.6	511 373.1	183 548.7	51 280.0	868 565.4	14.1	58.9	21.1	5.9	
	Broadleaved	326 222.4	0.0	21 733.8	708.4	348 664.6	93.6	0.0	6.2	0.2	
	Total	448 586.0	511 373.1	205 282.5	51 988.3	1 217 230.0	36.9	42.0	16.9	4.3	

Table 3.7 Summary of forest areas in Wales showing assignment of high-level management types

Ownership	Coniferous/ broadleaved	Forest area by management type (ha)					Percentage of total area				
		No harvesting	No thinning with clearcutting	Thinning and clearcutting	Continuous cover	Total	No harvesting	No thinning with clearcutting	Thinning and clearcutting	Continuous cover	
Public	Coniferous	4 588.2	20 694.0	34 553.6	20 940.8	80 776.6	5.7	25.6	42.8	25.9	
	Broadleaved	8 390.4	0.0	0.0	5 177.3	13 567.7	61.8	0.0	0.0	38.2	
	Total	12 978.6	20 694.0	34 553.6	26 118.1	94 344.2	13.8	21.9	36.6	27.7	
Private	Coniferous	21 580.6	14 104.8	16 787.8	0.0	52 473.2	41.1	26.9	32.0	0.0	
	Broadleaved	150 572.9	0.0	6 611.3	0.0	157 184.2	95.8	0.0	4.2	0.0	
	Total	172 153.4	14 104.8	23 399.1	0.0	209 657.3	82.1	6.7	11.2	0.0	
All	Coniferous	26 168.8	34 798.9	51 341.4	20 940.8	1 33 249.7	19.6	26.1	38.5	15.7	
	Broadleaved	158 963.2	0.0	6 611.3	5 177.3	170 751.8	93.1	0.0	3.9	3.0	
	Total	185 132.0	34 798.9	57 952.6	26 118.1	304 001.6	60.9	11.4	19.1	8.6	

Table 3.8 Summary of forest areas in Northern Ireland showing assignment of high-level management types

Ownership	Coniferous/ broadleaved	Forest area by management type (ha)					Percentage of total area				
		No harvesting	No thinning with clearcutting	Thinning and clearcutting	Continuous cover	Total	No harvesting	No thinning with clearcutting	Thinning and clearcutting	Continuous cover	
Public	Coniferous	14 196.3	23 147.5	9 977.2	0.0	47 321.0	30.0	48.9	21.1	0.0	
	Broadleaved	2 040.6	117.6	109.1	0.0	2 267.3	90.0	5.2	4.8	0.0	
	Total	16 236.9	23 265.1	10 086.3	0.0	49 588.3	32.7	46.9	20.3	0.0	
Private	Coniferous	2 788.6	4 546.8	1 959.8	0.0	9 295.2	30.0	48.9	21.1	0.0	
	Broadleaved	11 223.3	646.8	600.2	0.0	12 470.4	90.0	5.2	4.8	0.0	
	Total	14 011.9	5 193.7	2 560.0	0.0	21 765.6	64.4	23.9	11.8	0.0	
All	Coniferous	16 984.9	27 694.4	11 937.0	0.0	56 616.2	30.0	48.9	21.1	0.0	
	Broadleaved	13 263.9	764.4	709.3	0.0	14 737.7	90.0	5.2	4.8	0.0	
	Total	30 248.8	28 458.8	12 646.3	0.0	71 353.9	42.4	39.9	17.7	0.0	

For the purposes of developing the FRL, in addition to assigning high-level forest management types to the forest strata, it is also necessary to define detailed Forest Management Practices (FMPs) to forest areas, stratified according to the system illustrated in Figure 3.1 above. These detailed FMPs define:

- The timing of thinnings (with respect to the age of forest areas) and the quantities of biomass harvested
- For FMPs involving clearcutting, the rotation ages assigned to forest areas and quantities of biomass harvested when clearcutting.

The timing of thinnings and quantities of biomass removed depend on tree species and yield class and are based principally on yield tables describing conventional forestry practice in the UK (Matthews et al., 2016ab). In Annex 3, worked examples are given explaining how these details have been calculated and presented in the detailed descriptions of the FMPs.

The rotations assigned to forest areas involving clearcutting vary with country, forest ownership, tree species and yield class, and also depend on whether or not forest areas are thinned. Crucially, these rotations have been characterised based on information sources available for the public forest estate and for the private sector, for the Reference Period of 2000 to 2009.

For the public forest estate in England, Scotland and Wales, rotations have been characterised by analysing apparent clearcutting activities, as indicated by information available in the public forest sub-compartment databases for each country, for each year from 2000 to 2009. A description of the methodology applied for this analysis is given in Annex 4.

For the private sector in England, Scotland and Wales, rotations have been based on those assigned to forest areas as part of a forecasting exercise carried out by the Forestry Commission for the private sector in 2006 (Halsall et al., 2006). These rotations were characterised through consultation with forestry sector expert groups in England, Scotland and Wales, undertaken specifically for the 2006 forecasting exercise and represent the best available proxy for rotations applied in areas managed for production in private sector forests in the period 2000-2009.

For Northern Ireland, only very limited evidence is available on rotation ages applied to forest areas. Hence, the rotation ages assigned (where relevant) have been based on those suggested as consistent with optimal economic management in British yield tables (Matthews et al., 2016a), for both public and private forests. It should be noted that the total area of broadleaved forests in Northern Ireland assigned to high-level forest management types involving clearcutting is very small (see Table 3.8 above).

The detailed FMPs developed according to the methods described above (and in Annexes 3 and 4) are given in Annex 5. Essentially, individual FMPs have been defined for combinations of:

- Country
- Forest ownership

-
- Tree species
 - Yield class
 - High-level forest management type.

There is a single FMP for the high-level forest management type of “no harvesting”, essentially involving no thinning or clearcutting. For the high-level management type of “continuous cover”, the detailed FMPs vary with tree species and yield class but not with country or forest ownership.

The FMPs given in the tables in Annex 5 can be related to forest strata in terms of tree species and yield class by referring to codes also included in the tables for each of the FMPs. For example, the code, “SSYC12NTS” indicates that the FMP is applicable for the forest area stratum of Sitka spruce (SS), yield class 12 (YC12), no thinning with clearcutting (NT) in Scotland (S). Similarly, the code, “GFYC22THESW” indicates that the FMP is applicable for the forest area stratum of grand fir (GF), yield class 22 (YC22), thinning with clearcutting (TH) in England, Scotland and Wales (ESW).

The detailed assignment of FMPs to the forest strata in Annex 2, by FMP index number and by country, forest ownership, tree species and yield class, is given in Annex 6. The areas of individual strata are also shown. These allocations of FMPs to strata are entirely based on information relevant for the Reference Period, and their allocations of the FMPs to strata remain constant for the entire projection made for constructing the FRL, i.e. historically, during the Reference Period and subsequently up to and during the Compliance Period.

Projected forest area

The information presented above and in Section 3.2.1 constitutes the essential input data for the process of developing the FRL, as specified in Boxes 3.1 and 3.2 (Section 3.1). The FRL methodology enables the area of Managed Forest Land, distributed according to age classes, to be projected over the Reference Period, up to the present and into the future.

Table 3.9 shows the breakdown of total forest area in the UK in 2011, according to the FRL methodology, showing the contributions from Managed Forest Land, land converted to forest land from other land uses, and non-wooded areas within forests.

According to Table 3.9, Managed Forest Land in 2011 represents 77% of the total wooded forest area in the UK. Hence, the contribution of land converted to forest land to the total wooded forest area is relatively large, at 23%. This reflects the relatively high levels of afforestation in the UK in previous decades (see ensuing discussion about the adoption of a 30 year transition period). There is also a minority contribution towards land converted to forest land from small woodlands assumed to have become established within the transition period and smaller contribution resulting from the reconciliation of afforestation data with the age class distributions reported in forest inventory data. A degree of uncertainty related to these minority contributions should be noted.

Table 3.9 Modelled forest area in 2011 according to FRL methodology

Component of stocked forest area	Area (ha)
Managed forest land (including small woodlands)	2 371 363
Land converted to forest land (not including contributions from small woodlands)	528 740
Land converted to forest land (small woodlands and reconciliation with forest age class distribution)	181 018
Total wooded forest area	3 081 121
Non-wooded area	403 679
Total forest area	3 484 800

Following article 6(2) of the Regulation (EU) 2018/841, the UK has chosen to categorise cropland, grassland, wetland, settlements or other land converted to forest land, as making the transition to forest land remaining forest land from 30 years after the date of conversion. This choice has been made to better represent changes in carbon stocks arising from afforestation activities in the UK.

In Volume 4, Chapter 2 of the 2006 IPCC Guidelines, discussing generic methodologies, it is explained that, “The length of time that land remains in a conversion category after a change in land use is by default 20 years ... (though other periods may be used at higher Tiers according to national circumstances)”. In Volume 4, Chapter 4 discussing Forest Land, it is further stated that, “The 20-year interval is taken as a default length of transition period for carbon stock changes following land-use change. ... The actual length of transition period depends on natural and ecological circumstances of a particular country or region and may differ from 20 years.”

The UK has been applying a Tier 3 methodology for GHG inventory calculations for many years. This includes the application of a Tier 3 forest carbon accounting model (see Section 3.3), which represents detailed annual carbon stock changes occurring as a result of the conversion of land to Forest Land. In temperate regions such as the UK, it is common for land use change to forest systems to involve carbon stock changes that take significantly longer than 20 years. Hence, the UK has selected a 30 year transition to allow improved representation of carbon stock changes occurring as a result of afforestation.

For the modelling of Managed Forest Land from the Reference Period up to and including Compliance Period, the UK is assuming the dynamic development of managed forest land. Hence, changes in the development of the area of Managed

Forest Land are modelled in the projection of the FRL. This has involved calculating the area of Managed Forest Land for each individual year, allowing for historical and projected gains in forest area from afforestation and losses in forest area from deforestation. The annual rates for both afforestation and deforestation, as applied in the 1990-2016 GHG Inventory are also applied in the modelling of the FRL. The rates estimated for the most recent year are then projected into the future for projecting the FRL.

Table 3.10 shows the modelled evolution of the area of Managed Forest Land (excluding non-wooded area) over the Reference Period of 2000 to 2009, up to the time of most recently applied forest inventory data (2011 for the NFI and 2014 for most of the Public forest estate) and projected to the year 2020.

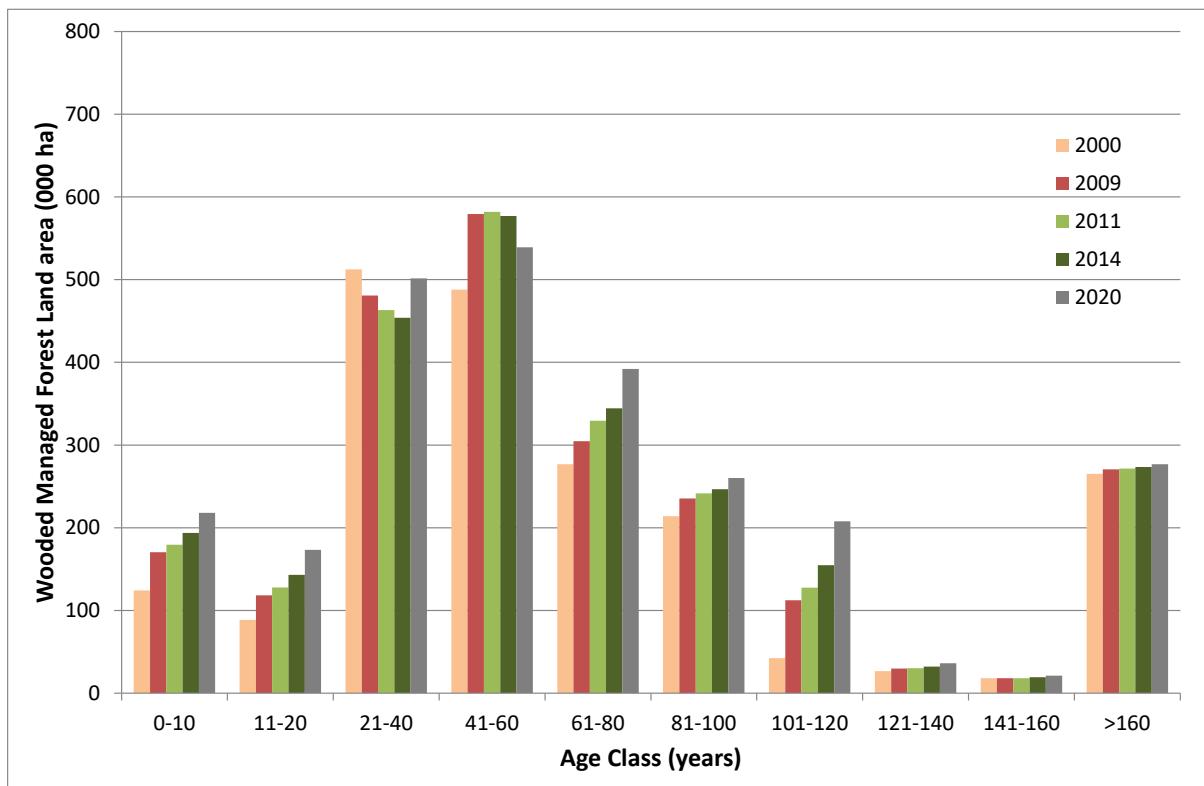
Table 3.10 Modelled wooded area of Managed Forest Land over the period 2000 to 2020

Year	Wooded area (ha)	Annualised change (ha yr ⁻¹)
2000	2 056 239	-
2009	2 319 616	29 264
2011	2 371 363	25 873
2014	2 438 123	22 253
2020	2 625 943	31 303

Over the period 2000 to 2020, the area of Managed Forest Land is projected as increasing by around 28.5 thousand hectares per year. This reflects the balance between gains from land converted to forest land making the transition to Managed Forest Land (including an estimated contribution from small woodlands) and losses due to deforestation. Variations in the rate of change reflect variations in historical and projected rates of afforestation and also variations in the rate of deforestation over the period.

Figures 3.2 and 3.3 illustrate the modelled development of the age class distribution of the area of wooded Managed Forest Land in the UK over the period 2000 to 2020, according to the FRL projection (Figure 3.2) and over the period 2000-2014 for the 1990-2016 GHG Inventory (Figure 3.3).

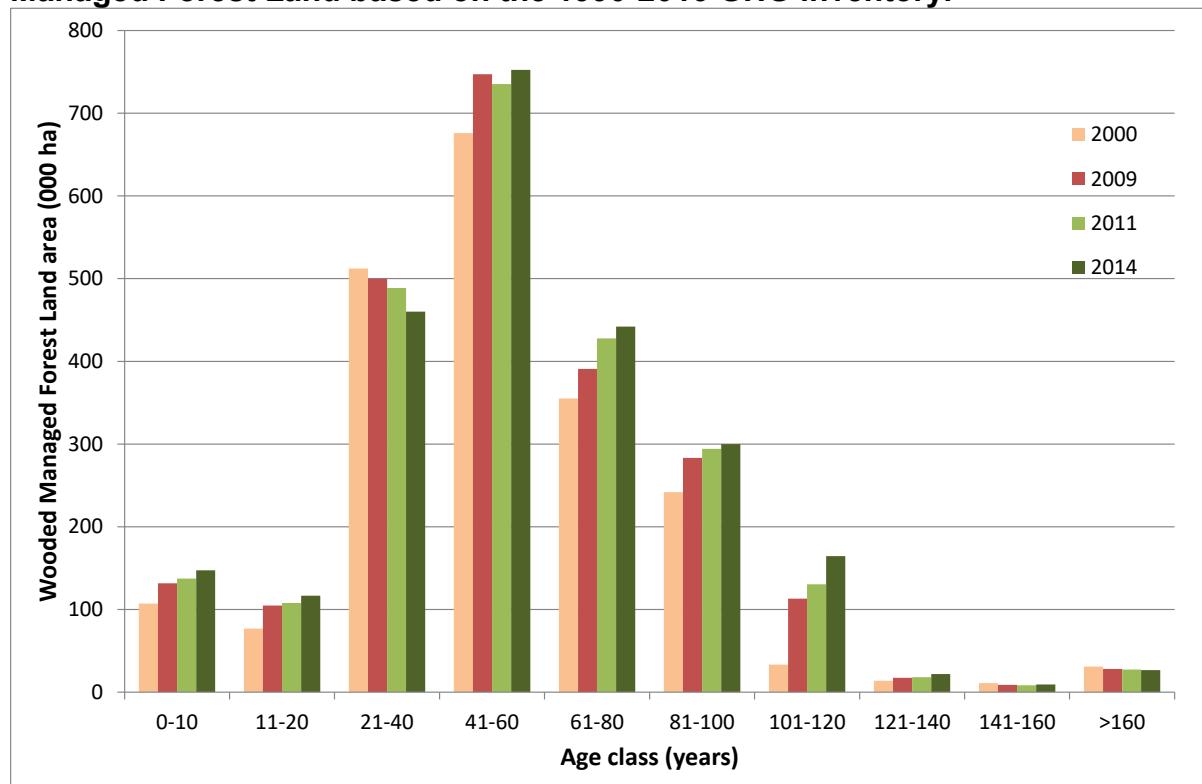
Figure 3.2. Modelled development of age class structure of area of wooded Managed Forest Land based on the FRL projection.



With the exception of the oldest age class (older than 160 years), the overall shape of the distributions in Figures 3.2 and 3.3 is very similar. Changes in area in individual age classes (up or down) are also very similar. However, the total areas are very different for some age classes, specifically:

- There is more area in the youngest age classes (0 to 20 years) in the distribution for the FRL
- There is significantly more area in the age range 41 to 80 years for the GHG Inventory
- There is also more area in the age class 81 to 100 years for the GHG Inventory
- The biggest difference is in the oldest age class (greater than 160 years), with about 240 000 ha more area in this age class for the FRL, representing about 8% of the total wooded forest area in the UK (see Table 3.2).
- These differences reflect the different assumptions made for the GHG Inventory and for the FRL with regard to:
 - The proportions of the area of strata forming Managed Forest Land estimated to be under management for production
 - The detailed rotations applied to strata forming Managed Forest Land.

Figure 3.3. Modelled development of age class structure of area of wooded Managed Forest Land based on the 1990-2016 GHG inventory.



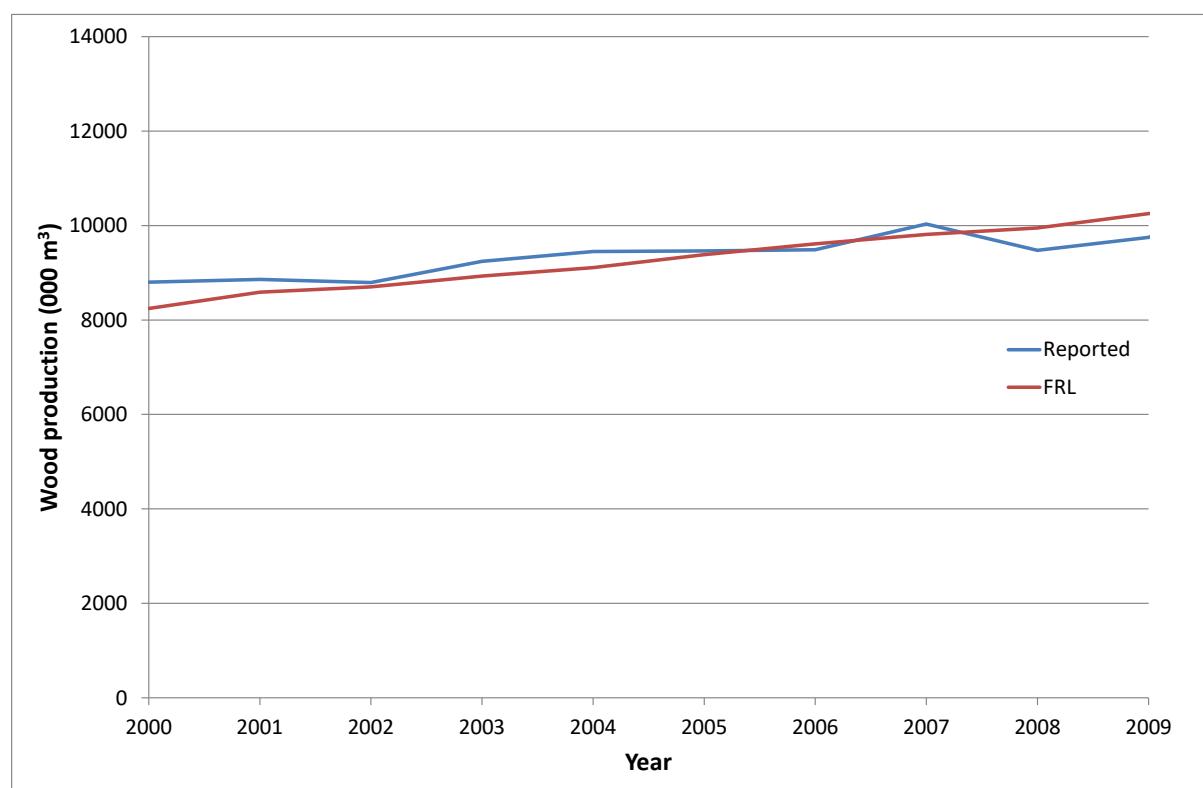
For the modelling of the GHG Inventory, historical and current management practices (and also levels of wood production) were represented, not just those practices or production levels observed in the Reference Period of 2000-2009, as was assumed for the FRL projection. The much lower area in the oldest age class for the GHG Inventory is the result of reported levels of wood production from broadleaved forest areas in previous decades (e.g. 1900 to 2000) that are very much higher than observed in the Reference Period. The modelling of the GHG Inventory reflects these historical production levels, with the result that a relatively large area of broadleaved forest is estimated to be in production. For the modelling of the FRL, the requirement to match production levels in the Reference Period, combined with the rotations observed in the Reference Period, results in a much smaller area of broadleaved forest being allocated to management for production. Furthermore, because the FRL projection is based on modelling the development of forest areas assuming unchanging management (both historically and into the future), much of the historical production of wood from broadleaved forests is not simulated to occur in the FRL. Hence, these forests continue to grow without being harvested in the FRL projection, with the result that a large area of older forest accumulates. This does not occur in the GHG Inventory modelling and the area associated with older forests in the FRL projection is distributed in the age range 41 to 100 years.

Differences in the age class distributions for the FRL projection and the GHG Inventory also occur as a result of the different rotations assumed to apply for the two methodologies (fixed for the FRL, dynamic for the GHG Inventory). This explains the other differences apparent in Figures 3.2 and 3.3, e.g. the presence of more area in the youngest age classes in the distribution for the FRL.

Whilst the FRL modelling results in an age class distribution that is noticeably different from that estimated by the modelling for the GHG Inventory, this is a consequence of meeting the requirement for fixing forest management according to forest management practices and levels of wood production as observed specifically for the Reference Period of 2000 to 2009.

Figure 3.4 shows reported statistics on wood production in the UK over the reference period compared with simulated wood production, as generated for the modelling framework (see Section 3.1 and CARBINE, see Section 3.3), when the FMPs developed for the FRL are applied. On average, simulated wood production levels are within just over 3% of reported levels, with a maximum deviation of 6.4%.

Figure 3.4. Comparison of reported and simulated wood production over the Reference Period.



3.3: Detailed description of the modelling framework as applied in the estimation of the forest reference level

The modelling framework applied for the estimation of the FRL is based on the CARBINE forest sector carbon accounting model, developed by Forest Research. Examples of calculations made by the CARBINE model have been included in earlier reports (e.g. Morison et al. 2012; Matthews et al., 2014, 2015).

The CARBINE model was first developed by the Research Division of the Forestry Commission (now Forest Research) in 1988 (Thompson and Matthews, 1989). Essentially it is an analytical model of the exchanges of carbon that take place

between the atmosphere, forest ecosystems (trees, deadwood, litter and soil) and the wider forestry sector (harvested wood products) as a result of tree growth, mortality and harvesting (Thompson and Matthews, 1989; Matthews, 1991; Morison et al., 2012). Other land uses are represented in CARBINE ‘at the margin’, i.e. to the extent necessary to represent land use transformations involving forests such as afforestation of cropland or grassland or conversion of forest to other land uses (deforestation). CARBINE also represents other economic sectors ‘at the margin’, notably the Energy and Construction sectors, in order to estimate the impacts of changes in patterns of timber harvesting and utilisation on consumption of fossil fuels and alternative materials, and consequent changes in GHG emissions (Matthews, 1994, 1996).

CARBINE has common features of structure and functionality with other analytical forest sector and forest carbon accounting models, notably EFISCEN (Schelhaas et al., 2007), C-Flow (Dewar, 1990, 1991; Cannell and Dewar, 1995), CO2FIX (Mohren and Klein Goldewijk, 1990; Nabuurs, 1996; Mohren et al., 1999), CBM-CFS3 (Kurz et al., 2009), C-change (Beets et al., 1999) and GORCAM (Marland and Schlamadinger, 1995, 1999; Schlamadinger and Marland, 1996). Studies comparing CARBINE and C-Flow (the other main forest carbon accounting model developed in the UK) revealed many similarities and consistencies in the functioning and results produced by the two models (Robertson et al., 2003; Matthews et al., 2014c).

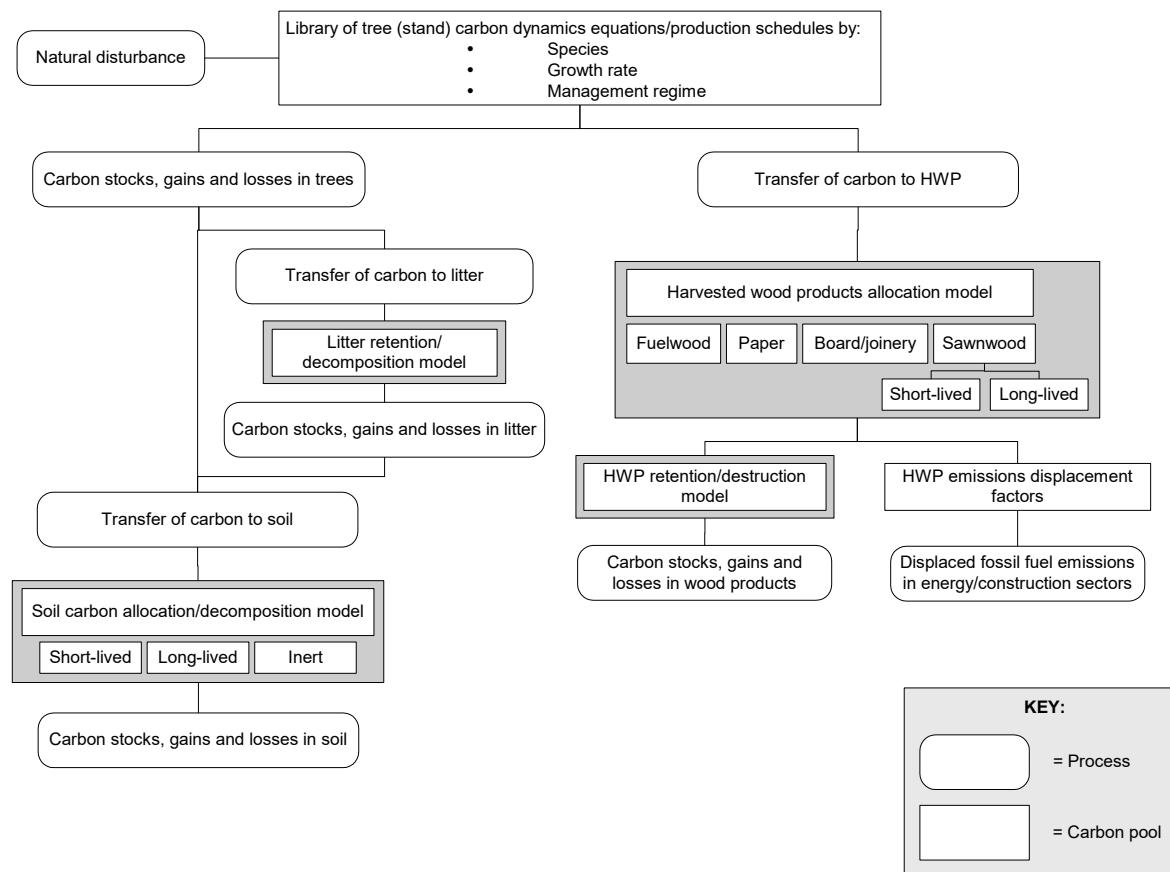
The CARBINE model also has the capacity to produce estimates of other variables not directly to do with forest carbon but of great relevance to decisions about forest management, for example:

- Levels of wood and timber production (which can be broken down into specific wood product categories if required)
- The development of forest area age class distributions over time
- Changes in the species composition of forests in response to management interventions (where relevant).

In terms of documentation, the CARBINE model has been described and discussed in a number of papers (Thompson and Matthews, 1989; Matthews, 1991, 1994, 1996; Matthews and Broadmeadow, 2009; Morison et al., 2012). The development and improvement of the model has been a significant exercise covering many years and the publication of a complete description of CARBINE is planned. A full description is in preparation (Matthews et al., 2018).

A schematic diagram of the structure of the CARBINE model is given in Figure 3.3.

Figure 3.3. Diagram illustrating the scope, structure and function of the CARBINE model.



Tree growth, management and wood production

The main driving module of CARBINE consists of a set of computerised mathematical functions and algorithms describing the accumulation (and loss) of carbon in tree biomass of different forestry systems at the per-hectare scale. Different functions and algorithms are used to represent distinct forestry systems, defined in terms of:

- Tree species composition
- Tree growth rate (yield class)
- Management regime applied.

The tree species and growth rates represented are based on yield models originally produced by the British Forestry Commission (Matthews et al., 2016ab). The tree species covered include examples for coniferous species of spruces, pines, firs, larches, cedars, cypresses and all the major temperate and boreal broadleaf tree species. Growth rates in terms of mean annual increment (MAI) of stem volume can be represented in the range from $2 \text{ m}^3 \text{ ha}^{-1} \text{ yr}^{-1}$ up to $30 \text{ m}^3 \text{ ha}^{-1} \text{ yr}^{-1}$.

As already explained, the mathematical functions describing forest development and levels of harvesting are based on standard models of forest growth and yield developed by the British Forestry Commission (Matthews et al., 2016ab). However, these are implemented in CARBINE as a dynamic yield model, known as M1 (Arcangeli and Matthews, unpublished model), which enables the representation of a wide range of management prescriptions (e.g. in terms of patterns of thinning and felling). Basic management regimes represented in the CARBINE model include:

- No thinning and no clearcutting (i.e. effectively no management for production)
- No thinning with clearcutting on a specified rotation
- Thinning with clearcutting on a specified rotation
- ‘Continuous cover’ silviculture (i.e. forest management with harvesting that also aims to always maintain tree cover on the land).

It is also possible to specify detailed rotations and levels of thinning, and changes in the management of forest areas over time, involving transitions between the broad management regimes indicated above, and also adjustments to rotations and transitions in tree species and growth rates on restocking.

Tree biomass and carbon

In CARBINE, stem biomass is estimated by multiplying estimates of stem volume by a value for the basic density of wood for the relevant tree species, expressed as oven dry tonnes of mass per cubic metre of ‘green’ timber volume (Lavers, 1983). Biomass estimates are converted to equivalent estimates of carbon by multiplying by a standard value for wood carbon content of 0.5 tC odt⁻¹ (Matthews, 1993).

Carbon and biomass in tree roots, branches and foliage are estimated based on allometric relationships with stemwood. These relationships are based on interpretation of summary estimates of root, branch, foliage and stem biomass using the Forestry Commission BSORT forest stand biomass model (Matthews and Duckworth, 2005; Jenkins et al., 2013).

Deadwood and litter carbon

CARBINE includes a sub-model for representing accumulation and loss of carbon in dead wood and litter. Inputs of litter are related to the standing biomass of trees and also to rates of tree mortality. Levels of tree mortality are represented implicitly in the standard Forestry Commission growth models, and explicit estimates are included in models for stands subject to no thinning, where mortality levels are high. Root and branch wood volume associated with dead trees is estimated in the same way as for living stemwood, by reference to allometric relationships. Deadwood and litter is assumed to decay according to a first order process, with rate constants that are normally set to be consistent with boreal and temperate conditions (Balster and Marshall, 2000; Brunner et al., 2013; Godbold et al., 2003; Janssens et al., 2002; Konôpka et al., 2006; Kurz and Beukema, 1996; Perruchoud, et al., 1999; Tupek et al., 2015) but can be adjusted for Mediterranean and tropical conditions.

Soil carbon

The CARBINE model includes an advanced sub-model for representing soil carbon pools and dynamics, based on the ECOSSE soil carbon model (Smith et al., 2007). CARBINE represents inputs of organic matter to forest soils from litter and fine root turnover. The relative contributions due to fine root turnover and litter vary with soil type and tree species/growth rate.

Harvested Wood Products

The CARBINE model includes a representation of the fate of forest biomass and carbon following harvesting and conversion into useful wood products, including bioenergy.

Input data to CARBINE

To run the CARBINE model, it is necessary to provide input data on forest areas broken into components consisting of:

- Area of forest component (ha)
- Year in which the forest component was originally planted or naturally regenerated
- Soil type associated with the forest component (essentially mineral or organic)
- Land use prior to planting or regeneration of forest (essentially arable or grassland)
- Species composition of forest component (including details of any changes in species over time), see Table 3.3 in Section 3.2.1
- Potential productivity of forest component (expressed as maximum potential stem volume production, in even-numbered classes of cubic metres per hectare per year, see Matthews et al., 2016a).
- Management prescription (details of any thinning, felling and rotation to be applied, including specifying how these details may change over time)
- Specification for how any harvested wood is used (not referred to when calculating GHG Inventories and FRL projections).

Potential productivity (yield class) may also be specified to change over time, so as to represent potential impacts of climate change on forest growth and development. However, this feature of the model has not been used for the purposes of calculating GHG inventories for Managed Forest Land or for developing the FRL, since no systematic data are available as a basis for such modelling. Hence, the modelling of forests for these purposes does not represent the potential effects of climate change on forest growth.

It should be apparent from the above discussion that the CARBINE model is configured to work with input data and to produce the output results needed to implement the methodologies described in Boxes 3.1 and 3.2 in Section 3.1.

Natural Disturbances

The inclusion of Natural Disturbances within the Reference Level is based on the analysis of Natural Disturbances detailed in the UK Report to facilitate the calculation of the assigned amount ('initial report') for the second commitment period (2013–2020) of the Kyoto Protocol.

It includes the impact of wildfire on GHG emissions (CO_2 , N_2O and CH_4), as well as the impact on CO_2 emissions of insect pest/disease infection and windstorm.

Assumptions concerning salvage logging (see details under individual disturbance categories, in the initial report) has allowed emissions associated with salvage-logging to be excluded from the background emissions.

In table 4.2 of that report, area specific emissions for forest management (with the definition used for the Kyoto Protocol) are presented for the period 2000 to 2013. Their average is of $0.115 \text{ Mg CO}_2\text{e ha}^{-1} \text{ yr}^{-1}$. While the definition of managed forest is slightly different within the NFAP (because of the difference of approach in the distinction with afforestation), the underlying assumption could not be used to further refine the estimate.

Taking the area specific emissions of $0.115 \text{ Mg CO}_2\text{e ha}^{-1} \text{ yr}^{-1}$ and multiplying it by the areas of managed forest in the NFAP lead to an estimate of 300 kt yr^{-1} (rounded up with one significant digit only considering the uncertainty on the estimate).

Should the UK trigger the natural disturbance provision, it will recalculate that reference level with the information available about the magnitude of the natural disturbances over the full period 2000 to 2020 as required by the LULUCF Regulation.

Chapter 4: Forest reference level

4.1: Forest reference level and detailed description of the development of the carbon pools

Table 4.1 gives details of the annualised carbon stock changes estimated to occur in forest carbon pools, according to the FRL projection, for the Reference Period and for the periods 2010-2015 and 2016-2020. This describes the detailed development of the carbon pools contributing to the FRL projection from the Reference Period up to the start of the Compliance Period. The results for the Compliance Period of 2021-2025 are also shown in Table 4.1.

It should be noted that the results shown in Table 4.1 have been adjusted to achieve consistency with the 1990-2016 GHG Inventory, as discussed in Section 4.2.

Table 4.1: Detailed description of the development of the carbon pools over time in the run of Carbine used to define the FRL.

Carbon pool	Annualised carbon stock change for period ($\text{ktCO}_2 \text{ yr}^{-1}$)			
	2000-2009	2010-2015	2016-2020	2021-2025
Above Ground Trees Stock Change (Kt CO_2)	-5050.08	-4346.33	-4206.01	-4313.25
Below Ground Trees Stock Change (Kt CO_2)	-1471.87	-1230.55	-1174.56	-1223.16
Litter Stock Change (Kt CO_2)	-318.95	-291.54	-250.98	-203.84
Deadwood (Kt CO_2)	-3092.63	-3556.57	-3701.76	-3531.55
Organic Soil Stock Change (Kt CO_2)	-329.35	-480.13	-561.42	-598.68
Mineral Soil Stock Change (Kt CO_2)	-3518.02	-4154.17	-4454.95	-4604.08
Sum of pools	-13780.91	-14059.30	-14349.68	-14474.56
Natural disturbance background level	300	300	300	300
FRL without HWP	-13480.91	-13759.30	-14049.68	-14174.56
HWP CO_2 Emissions (including adjustment)	-2375.43	-2464.19	-2634.71	-2482.51
FRL with HWP	-15856.34	-16223.48	-16684.38	-16657.07

The total change in carbon stocks (a net carbon sink) is projected to increase up to the Compliance Period but exhibits a slight decrease during the Compliance Period. This is the result of:

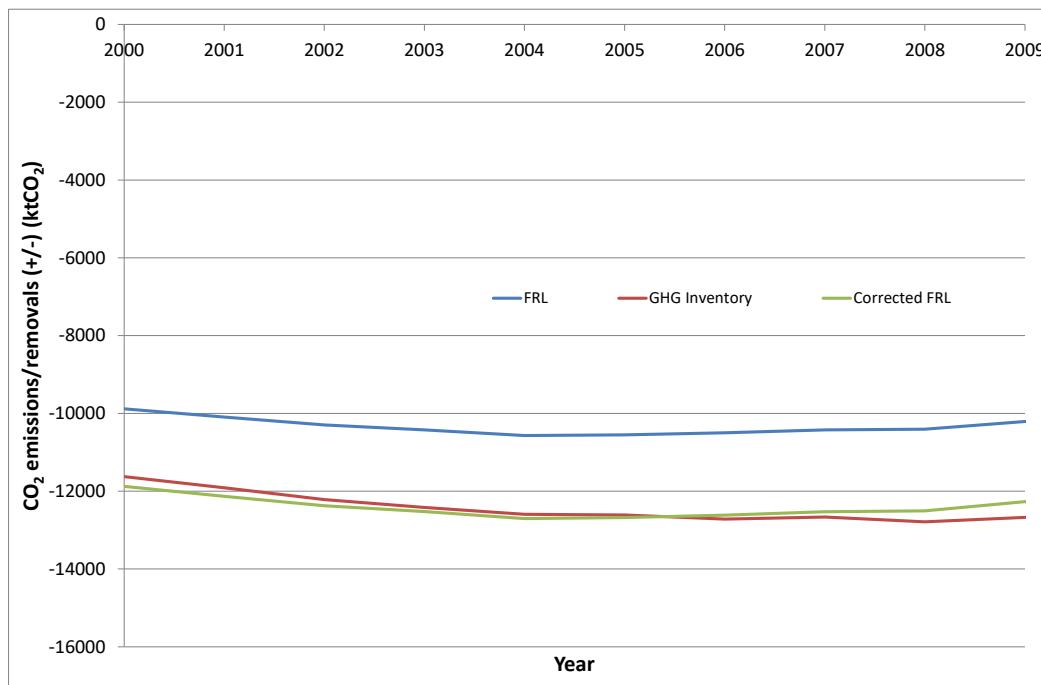
- A progressively decreasing carbon sink in tree biomass, and litter
- A progressively increasing carbon stock in soils, which compensates for the decreasing sink identified above
- An increasing carbon sink in HWP up to the Compliance Period, followed by a decreasing sink in this pool during the Compliance Period.

4.2: Consistency between the forest reference level and the latest national inventory report

The UK uses the same modelling framework for calculating the FRL and for calculating GHG Inventory results for Managed Forest Land. In addition, the forest strata characterised for the FRL calculations are the same as those used in calculating GHG Inventories. Hence, if the Forest Management Practices assumed in calculating a GHG inventory are used as inputs to the FRL modelling framework, the results are identical to those reported in the GHG Inventory. However, the results based on the historical FMPs defined for the FRL calculations give different results over the period of the current GHG Inventory, as shown in Figure 4.1. It was therefore necessary to make a correction to the FRL projection to achieve consistency between the FRL and a version of the 1990-2016 GHG Inventory, which was itself revised to include a correction of an error that will be implemented in the 1990-2017 GHG Inventory. The correction to the 1990-2016 GHG Inventory was needed to eliminate the double-counting of carbon stocks in the deadwood pool (and associated carbon stock changes).

The correction to the FRL, to achieve consistency with the corrected 1990-2016 GHG Inventory, was carried out by applying the IPCC overlap method (IPCC, 2006) as recommended in the Guidance on FRL construction (EC, 2018). The corrected FRL projection is also shown in Figure 4.1.

Figure 4.1 Comparison of GHGI and FRL (uncorrected and corrected) for the Reference Period 2000-2009.



4.3: Calculated carbon pools and greenhouse gases for the forest reference level

Table 4.2 shows the calculation of the final FRL for the Compliance Period 2021-2025, including other contributions to emissions and removals as well as contributions due to forest carbon pools. Essentially, there is an additional value included in the calculation to allow for the UK's nominated Natural Disturbance Background Level of 300 kt CO₂e yr⁻¹.

Table 4.2 Calculated carbon pools and greenhouse gases for the Forest Reference Level

Source of contribution to FRL	Emissions or removals (+/-) (kt CO ₂ e yr ⁻¹)
Aboveground tree biomass	-4313.25
Belowground tree biomass	-1223.16
Litter	-203.84
Deadwood	-3531.55
Organic soils	-598.68
Mineral soils	-4604.08
Sum of pools	-14474.56
Natural Disturbance Background Level	300
FRL without HWP	-14174.56
HWP	-2482.51
FRL with HWP	-16657.07

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Annex 1 Handling of minor species in modelling through association with major UK tree species

Common name	Latin name	CARBINE species
Alder	<i>Alnus</i> spp	Birch
Armand's pine	<i>Pinus armandii</i>	Scots pine
Ash	<i>Fraxinus excelsior</i>	Ash
Aspen	<i>Populus tremula</i>	Poplar
Atlas cedar	<i>Cedrus atlantica</i>	Noble fir
Austrian pine	<i>Pinus nigra</i> var <i>nigra</i>	Corsican pine
Beech	<i>Fagus sylvatica</i>	Beech
Bhutan pine	<i>Pinus wallichiana</i>	Scots pine
Big leaf maple	<i>Acer macrophyllum</i>	Sycamore
Birch	<i>Betula</i> spp	Birch
Bird cherry	<i>Prunus padus</i>	Birch
Bishop pine	<i>Pinus muricata</i>	Lodgepole pine
Black poplar	<i>Populus nigra</i>	Poplar
Black walnut	<i>Juglans nigra</i>	Oak
Blackthorn	<i>Prunus spinosa</i>	Sycamore
Bornmuller's fir	<i>Abies bornmuelleriana</i>	Noble fir
Box	<i>Buxus</i> spp	Birch
Calabrian pine	<i>Pinus brutia</i>	Scots pine
Cedar of Lebanon	<i>Cedrus libani</i>	Noble fir
Cider gum	<i>Eucalyptus gunnii</i>	Poplar
Coast redwood	<i>Sequoia sempervirens</i>	Grand fir
Common alder	<i>Alnus glutinosa</i>	Birch
Common Lime	<i>Tilia europaea</i>	Ash
Common walnut	<i>Juglans regia</i>	Oak
Common whitebeam	<i>Sorbus aria</i>	Birch
Corsican pine	<i>Pinus nigra</i> var <i>maritima</i>	Corsican pine
Crab apple	<i>Malus sylvestris</i>	Sycamore
Crack willow	<i>Salix fragilis</i>	Birch
Douglas fir	<i>Pseudotsuga menziesii</i>	Douglas fir
Downy birch	<i>Betula pubescens</i>	Birch
Downy oak	<i>Quercus pubescens</i>	Oak
Elm	<i>Ulmus</i> spp	Beech

English elm	<i>Ulmus procera</i>	Beech
European larch	<i>Larix decidua</i>	European larch
Field maple	<i>Acer campestre</i>	Sycamore
Goat willow	<i>Salix caprea</i>	Birch
Grand fir	<i>Abies grandis</i>	Grand fir
Greek fir	<i>Abies cephalonica</i>	Noble fir
Green alder	<i>Alnus viridis</i>	Birch
Grey alder	<i>Alnus incana</i>	Birch
Grey poplar	<i>Populus canescens</i>	Poplar
Grey willow	<i>Salix cinerea</i>	Birch
Hawthorn	<i>Crataegus spp</i>	Birch
Hazel	<i>Corylus avellana</i>	Birch
Holly	<i>Ilex spp</i>	Sycamore
Holm oak	<i>Quercus ilex</i>	Oak
Hornbeam	<i>Carpinus betulus</i>	Beech
Horse Chestnut	<i>Aesculus hippocastanum</i>	Sycamore
Hungarian oak	<i>Quercus frainetto</i>	Oak
Hybrid larch	<i>Larix x eurolepis</i>	Japanese larch
Italian alder	<i>Alnus cordata</i>	Birch
Japanese cedar	<i>Cryptomeria japonica</i>	Western red cedar
Japanese larch	<i>Larix kaempferi</i>	Japanese larch
Juniper	<i>Juniperus communis</i>	Norway spruce
Korean pine	<i>Pinus koreana</i>	Scots pine
Large-leaved lime	<i>Tilia platyphyllos</i>	Ash
Lawsons cypress	<i>Chamaecyparis lawsoniana</i>	Western red cedar
Lenga	<i>Nothofagus pumilio</i>	Roble
Leyland cypress	<i>Cupressocyparis leylandii</i>	Western red cedar
Lime	<i>Tilia spp</i>	Ash
Loblolly pine	<i>Pinus taeda</i>	Corsican pine
Lodgepole pine	<i>Pinus contorta</i>	Lodgepole pine
London plane	<i>Platanus x acerifolia</i>	Sycamore
Macedonian pine	<i>Pinus peuce</i>	Corsican pine
Maritime pine	<i>Pinus pinaster</i>	Lodgepole pine
Mexican white pine	<i>Pinus ayacahuite</i>	Scots pine
Mixed broadleaves	Mixed broadleaf	Sycamore
Mixed conifers	Mixed coniferales	Norway spruce
Mountain pine	<i>Pinus uncinata</i>	Scots pine
Narrow-leaved ash	<i>Fraxinus angustifolia</i>	Ash
Noble fir	<i>Abies procera</i>	Noble fir

Nordmann/Caucasian fir	<i>Abies nordmanniana</i>	Noble fir
Norway maple	<i>Acer platanoides</i>	Sycamore
Norway spruce	<i>Picea abies</i>	Norway spruce
Oak	<i>Quercus spp</i>	Oak
Oriental beech	<i>Fagus orientalis</i>	Beech
Oriental spruce	<i>Picea orientalis</i>	Norway spruce
Other birch	<i>Betula spp</i>	Birch
Other broadleaves	Other broadleaf	Sycamore
Other broadleaves (non-native)	Other broadleaf	Sycamore
Other cedar	<i>Cedrus spp</i>	Noble fir
Other cherry	<i>Prunus spp</i>	Birch
Other conifers	Other coniferales	Norway spruce
Other eucalyptus	<i>Eucalyptus spp</i>	Poplar
Other firs (abies)	<i>Abies spp</i>	Noble fir
Other larches	<i>Larix spp</i>	European larch
Other Nothofagus	<i>Nothofagus spp</i>	Roble
Other oak	<i>Quercus spp</i>	Oak
Other pines	<i>Pinus spp</i>	Scots pine
Other plane	<i>Platanus spp</i>	Sycamore
Other poplar	<i>Populus spp</i>	Poplar
Other spruces	<i>Picea spp</i>	Norway spruce
Other walnut	<i>Juglans spp</i>	Oak
Other willows	<i>Salix spp</i>	Birch
Paper bark birch	<i>Betula papyrifera</i>	Birch
Pedunculate oak	<i>Quercus robur</i>	Oak
Ponderosa pine	<i>Pinus ponderosa</i>	Scots pine
Poplar	<i>Populus spp</i>	Poplar
Pyrenean oak	<i>Quercus pyrenaica</i>	Oak
Radiata/Monterey pine	<i>Pinus radiata</i>	Corsican pine
Raoul	<i>Nothofagus procera</i>	Roble
Red (pacific silver) fir	<i>Abies amabilis</i>	Grand fir
Red alder	<i>Alnus rubra</i>	Birch
Red ash	<i>Fraxinus pennsylvanica</i>	Ash
Red oak	<i>Quercus rubra</i>	Oak
Roble	<i>Nothofagus obliqua</i>	Roble
Rowan	<i>Sorbus aucuparia</i>	Birch
Scots pine	<i>Pinus sylvestris</i>	Scots pine
Serbian spruce	<i>Picea omorika</i>	Norway spruce
Sessile oak	<i>Quercus petraea</i>	Oak

Shagbark hickory	<i>Carya ovata</i>	Oak
Shining gum	<i>Eucalyptus nitens</i>	Poplar
Silver birch	<i>Betula pendula</i>	Birch
Silver fir (european)	<i>Abies alba</i>	Noble fir
Silver maple	<i>Acer saccharinum</i>	Sycamore
Sitka spruce	<i>Picea sitchensis</i>	Sitka spruce
Slash pine	<i>Pinus ellottii</i>	Lodgepole pine
Small-leaved lime	<i>Tilia cordata</i>	Ash
Smooth-leaved elm	<i>Ulmus carpinifolia</i>	Beech
Sweet chestnut	<i>Castanea sativa</i>	Beech
Sycamore	<i>Acer pseudoplatanus</i>	Sycamore
Tingiringi gum	<i>Eucalyptus glaucescens</i>	Poplar
Tulip tree/tulip poplar/yellow poplar	<i>Liriodendron tulipifera</i>	Beech
Turkey oak	<i>Quercus cerris</i>	Oak
Wellingtonia	<i>Sequoiadendron giganteum</i>	Grand fir
Western hemlock	<i>Tsuga heterophylla</i>	Western hemlock
Western red cedar	<i>Thuja plicata</i>	Western red cedar
Western white pine	<i>Pinus monticola</i>	Lodgepole pine
Weymouth pine	<i>Pinus strobus</i>	Scots pine
White ash/american ash	<i>Fraxinus americana</i>	Ash
White oak	<i>Quercus alba</i>	Oak
White poplar	<i>Populus alba</i>	Poplar
White willow	<i>Salix alba</i>	Birch
Wild cherry/gean	<i>Prunus avium</i>	Birch
Wild service tree	<i>Sorbus torminalis</i>	Birch
Wych elm	<i>Ulmus glabra</i>	Beech
Yew	<i>Taxus baccata</i>	Scots pine
Yunnan pine	<i>Pinus yunnanensis</i>	Scots pine

Annex 2 Detailed stratification of UK forest area (not allowing for soil class)

Country	Ownership	CARBINE tree species			Yield class ($m^3 \text{ ha}^{-1} \text{ yr}^{-1}$)	Area (ha)
		Common name	Latin name	Sp. code		
England	Public forest estate	Norway spruce	<i>Picea abies</i>	NS	2	81.60
England	Public forest estate	Norway spruce	<i>Picea abies</i>	NS	4	72.15
England	Public forest estate	Norway spruce	<i>Picea abies</i>	NS	6	295.73
England	Public forest estate	Norway spruce	<i>Picea abies</i>	NS	8	736.23
England	Public forest estate	Norway spruce	<i>Picea abies</i>	NS	10	2 344.59
England	Public forest estate	Norway spruce	<i>Picea abies</i>	NS	12	1 450.02
England	Public forest estate	Norway spruce	<i>Picea abies</i>	NS	14	908.60
England	Public forest estate	Norway spruce	<i>Picea abies</i>	NS	16	635.29
England	Public forest estate	Norway spruce	<i>Picea abies</i>	NS	18	489.45
England	Public forest estate	Norway spruce	<i>Picea abies</i>	NS	20	339.21
England	Public forest estate	Norway spruce	<i>Picea abies</i>	NS	22	283.87
England	Public forest estate	Norway spruce	<i>Picea abies</i>	NS	24	3.94
England	Public forest estate	Norway spruce	<i>Picea abies</i>	NS	30	1.72
England	Public forest estate	Sitka spruce	<i>Picea sitchensis</i>	SS	2	93.95
England	Public forest estate	Sitka spruce	<i>Picea sitchensis</i>	SS	4	158.15
England	Public forest estate	Sitka spruce	<i>Picea sitchensis</i>	SS	6	682.12
England	Public forest estate	Sitka spruce	<i>Picea sitchensis</i>	SS	8	1 860.48

Country	Ownership	CARBINE tree species			Yield class (m ³ ha ⁻¹ yr ⁻¹)	Area (ha)
		Common name	Latin name	Sp. code		
England	Public forest estate	Sitka spruce	<i>Picea sitchensis</i>	SS	10	3 510.40
England	Public forest estate	Sitka spruce	<i>Picea sitchensis</i>	SS	12	17 317.80
England	Public forest estate	Sitka spruce	<i>Picea sitchensis</i>	SS	14	10 103.33
England	Public forest estate	Sitka spruce	<i>Picea sitchensis</i>	SS	16	5 266.31
England	Public forest estate	Sitka spruce	<i>Picea sitchensis</i>	SS	18	3 251.83
England	Public forest estate	Sitka spruce	<i>Picea sitchensis</i>	SS	20	1 812.50
England	Public forest estate	Sitka spruce	<i>Picea sitchensis</i>	SS	22	1 021.39
England	Public forest estate	Sitka spruce	<i>Picea sitchensis</i>	SS	24	924.50
England	Public forest estate	Sitka spruce	<i>Picea sitchensis</i>	SS	26	22.94
England	Public forest estate	Sitka spruce	<i>Picea sitchensis</i>	SS	28	0.29
England	Public forest estate	Scots pine	<i>Pinus sylvestris</i>	SP	2	184.58
England	Public forest estate	Scots pine	<i>Pinus sylvestris</i>	SP	4	278.65
England	Public forest estate	Scots pine	<i>Pinus sylvestris</i>	SP	6	935.57
England	Public forest estate	Scots pine	<i>Pinus sylvestris</i>	SP	8	2 863.76
England	Public forest estate	Scots pine	<i>Pinus sylvestris</i>	SP	10	5 173.38
England	Public forest estate	Scots pine	<i>Pinus sylvestris</i>	SP	12	4 438.68
England	Public forest estate	Scots pine	<i>Pinus sylvestris</i>	SP	14	2 146.19
England	Public forest estate	Scots pine	<i>Pinus sylvestris</i>	SP	16	55.17
England	Public forest estate	Scots pine	<i>Pinus sylvestris</i>	SP	18	6.70
England	Public forest estate	Corsican pine	<i>Pinus nigra</i> ssp. <i>laricio</i>	CP	2	19.18
England	Public forest estate	Corsican pine	<i>Pinus nigra</i> ssp. <i>laricio</i>	CP	4	22.67
England	Public forest estate	Corsican pine	<i>Pinus nigra</i> ssp. <i>laricio</i>	CP	6	65.29
England	Public forest estate	Corsican pine	<i>Pinus nigra</i> ssp. <i>laricio</i>	CP	8	227.95

Country	Ownership	CARBINE tree species			Yield class (m ³ ha ⁻¹ yr ⁻¹)	Area (ha)
		Common name	Latin name	Sp. code		
England	Public forest estate	Corsican pine	<i>Pinus nigra</i> ssp. <i>laricio</i>	CP	10	828.38
England	Public forest estate	Corsican pine	<i>Pinus nigra</i> ssp. <i>laricio</i>	CP	12	3 518.94
England	Public forest estate	Corsican pine	<i>Pinus nigra</i> ssp. <i>laricio</i>	CP	14	10 748.40
England	Public forest estate	Corsican pine	<i>Pinus nigra</i> ssp. <i>laricio</i>	CP	16	5 272.55
England	Public forest estate	Corsican pine	<i>Pinus nigra</i> ssp. <i>laricio</i>	CP	18	1 225.24
England	Public forest estate	Corsican pine	<i>Pinus nigra</i> ssp. <i>laricio</i>	CP	20	796.94
England	Public forest estate	Corsican pine	<i>Pinus nigra</i> ssp. <i>laricio</i>	CP	22	0.40
England	Public forest estate	Corsican pine	<i>Pinus nigra</i> ssp. <i>laricio</i>	CP	24	0.20
England	Public forest estate	Lodgepole pine	<i>Pinus contorta</i>	LP	2	58.50
England	Public forest estate	Lodgepole pine	<i>Pinus contorta</i>	LP	4	711.02
England	Public forest estate	Lodgepole pine	<i>Pinus contorta</i>	LP	6	1 048.14
England	Public forest estate	Lodgepole pine	<i>Pinus contorta</i>	LP	8	1 079.46
England	Public forest estate	Lodgepole pine	<i>Pinus contorta</i>	LP	10	371.33
England	Public forest estate	Lodgepole pine	<i>Pinus contorta</i>	LP	12	170.57
England	Public forest estate	Lodgepole pine	<i>Pinus contorta</i>	LP	14	62.03
England	Public forest estate	Lodgepole pine	<i>Pinus contorta</i>	LP	16	5.51
England	Public forest estate	Lodgepole pine	<i>Pinus contorta</i>	LP	18	1.96
England	Public forest estate	Lodgepole pine	<i>Pinus contorta</i>	LP	20	71.77
England	Public forest estate	European larch	<i>Larix decidua</i>	EL	2	9.88
England	Public forest estate	European larch	<i>Larix decidua</i>	EL	4	32.67
England	Public forest estate	European larch	<i>Larix decidua</i>	EL	6	192.69
England	Public forest estate	European larch	<i>Larix decidua</i>	EL	8	365.97
England	Public forest estate	European larch	<i>Larix decidua</i>	EL	10	299.24

Country	Ownership	CARBINE tree species			Yield class (m ³ ha ⁻¹ yr ⁻¹)	Area (ha)
		Common name	Latin name	Sp. code		
England	Public forest estate	European larch	Larix decidua	EL	12	327.87
England	Public forest estate	European larch	Larix decidua	EL	14	5.23
England	Public forest estate	European larch	Larix decidua	EL	16	0.35
England	Public forest estate	European larch	Larix decidua	EL	18	0.53
England	Public forest estate	Japanese/hybrid larch	Larix kaempferi/L.	JL	2	17.14
England	Public forest estate	Japanese/hybrid larch	Larix kaempferi/L.	JL	4	112.85
England	Public forest estate	Japanese/hybrid larch	Larix kaempferi/L.	JL	6	495.23
England	Public forest estate	Japanese/hybrid larch	Larix kaempferi/L.	JL	8	1 323.39
England	Public forest estate	Japanese/hybrid larch	Larix kaempferi/L.	JL	10	1 959.16
England	Public forest estate	Japanese/hybrid larch	Larix kaempferi/L.	JL	12	1 794.45
England	Public forest estate	Japanese/hybrid larch	Larix kaempferi/L.	JL	14	1 671.57
England	Public forest estate	Japanese/hybrid larch	Larix kaempferi/L.	JL	16	51.54
England	Public forest estate	Japanese/hybrid larch	Larix kaempferi/L.	JL	18	0.99
England	Public forest estate	Japanese/hybrid larch	Larix kaempferi/L.	JL	20	1.80
England	Public forest estate	Douglas fir	Pseudotsuga menziesii	DF	2	6.12
England	Public forest estate	Douglas fir	Pseudotsuga menziesii	DF	4	4.72
England	Public forest estate	Douglas fir	Pseudotsuga menziesii	DF	6	11.83
England	Public forest estate	Douglas fir	Pseudotsuga menziesii	DF	8	174.37
England	Public forest estate	Douglas fir	Pseudotsuga menziesii	DF	10	378.84
England	Public forest estate	Douglas fir	Pseudotsuga menziesii	DF	12	1 247.27
England	Public forest estate	Douglas fir	Pseudotsuga menziesii	DF	14	1 539.01
England	Public forest estate	Douglas fir	Pseudotsuga menziesii	DF	16	1 757.92
England	Public forest estate	Douglas fir	Pseudotsuga menziesii	DF	18	1 388.30

Country	Ownership	CARBINE tree species			Yield class (m ³ ha ⁻¹ yr ⁻¹)	Area (ha)
		Common name	Latin name	Sp. code		
England	Public forest estate	Douglas fir	<i>Pseudotsuga menziesii</i>	DF	20	1 106.08
England	Public forest estate	Douglas fir	<i>Pseudotsuga menziesii</i>	DF	22	796.48
England	Public forest estate	Douglas fir	<i>Pseudotsuga menziesii</i>	DF	24	990.78
England	Public forest estate	Douglas fir	<i>Pseudotsuga menziesii</i>	DF	26	3.99
England	Public forest estate	Grand fir	<i>Abies grandis</i>	GF	2	5.44
England	Public forest estate	Grand fir	<i>Abies grandis</i>	GF	4	0.60
England	Public forest estate	Grand fir	<i>Abies grandis</i>	GF	6	4.02
England	Public forest estate	Grand fir	<i>Abies grandis</i>	GF	8	5.09
England	Public forest estate	Grand fir	<i>Abies grandis</i>	GF	10	24.33
England	Public forest estate	Grand fir	<i>Abies grandis</i>	GF	12	66.08
England	Public forest estate	Grand fir	<i>Abies grandis</i>	GF	14	71.14
England	Public forest estate	Grand fir	<i>Abies grandis</i>	GF	16	75.35
England	Public forest estate	Grand fir	<i>Abies grandis</i>	GF	18	48.34
England	Public forest estate	Grand fir	<i>Abies grandis</i>	GF	20	40.55
England	Public forest estate	Grand fir	<i>Abies grandis</i>	GF	22	24.48
England	Public forest estate	Grand fir	<i>Abies grandis</i>	GF	24	18.63
England	Public forest estate	Grand fir	<i>Abies grandis</i>	GF	26	22.40
England	Public forest estate	Grand fir	<i>Abies grandis</i>	GF	28	11.14
England	Public forest estate	Grand fir	<i>Abies grandis</i>	GF	30	21.73
England	Public forest estate	Noble fir	<i>Abies procera</i>	NF	2	1.97
England	Public forest estate	Noble fir	<i>Abies procera</i>	NF	4	0.28
England	Public forest estate	Noble fir	<i>Abies procera</i>	NF	6	0.78
England	Public forest estate	Noble fir	<i>Abies procera</i>	NF	8	4.28

Country	Ownership	CARBINE tree species			Yield class (m ³ ha ⁻¹ yr ⁻¹)	Area (ha)
		Common name	Latin name	Sp. code		
England	Public forest estate	Noble fir	<i>Abies procera</i>	NF	10	7.10
England	Public forest estate	Noble fir	<i>Abies procera</i>	NF	12	20.98
England	Public forest estate	Noble fir	<i>Abies procera</i>	NF	14	22.61
England	Public forest estate	Noble fir	<i>Abies procera</i>	NF	16	18.18
England	Public forest estate	Noble fir	<i>Abies procera</i>	NF	18	8.90
England	Public forest estate	Noble fir	<i>Abies procera</i>	NF	20	7.74
England	Public forest estate	Noble fir	<i>Abies procera</i>	NF	22	13.30
England	Public forest estate	Western hemlock	<i>Tsuga heterophylla</i>	WH	2	6.58
England	Public forest estate	Western hemlock	<i>Tsuga heterophylla</i>	WH	4	0.52
England	Public forest estate	Western hemlock	<i>Tsuga heterophylla</i>	WH	6	2.34
England	Public forest estate	Western hemlock	<i>Tsuga heterophylla</i>	WH	8	10.76
England	Public forest estate	Western hemlock	<i>Tsuga heterophylla</i>	WH	10	27.23
England	Public forest estate	Western hemlock	<i>Tsuga heterophylla</i>	WH	12	158.86
England	Public forest estate	Western hemlock	<i>Tsuga heterophylla</i>	WH	14	247.93
England	Public forest estate	Western hemlock	<i>Tsuga heterophylla</i>	WH	16	268.89
England	Public forest estate	Western hemlock	<i>Tsuga heterophylla</i>	WH	18	270.80
England	Public forest estate	Western hemlock	<i>Tsuga heterophylla</i>	WH	20	235.60
England	Public forest estate	Western hemlock	<i>Tsuga heterophylla</i>	WH	22	114.58
England	Public forest estate	Western hemlock	<i>Tsuga heterophylla</i>	WH	24	90.33
England	Public forest estate	Western red cedar	<i>Thuja plicata</i>	RC	2	4.75
England	Public forest estate	Western red cedar	<i>Thuja plicata</i>	RC	4	11.75
England	Public forest estate	Western red cedar	<i>Thuja plicata</i>	RC	6	8.87
England	Public forest estate	Western red cedar	<i>Thuja plicata</i>	RC	8	20.71

Country	Ownership	CARBINE tree species			Yield class (m ³ ha ⁻¹ yr ⁻¹)	Area (ha)
		Common name	Latin name	Sp. code		
England	Public forest estate	Western red cedar	<i>Thuja plicata</i>	RC	10	98.57
England	Public forest estate	Western red cedar	<i>Thuja plicata</i>	RC	12	238.75
England	Public forest estate	Western red cedar	<i>Thuja plicata</i>	RC	14	174.23
England	Public forest estate	Western red cedar	<i>Thuja plicata</i>	RC	16	178.24
England	Public forest estate	Western red cedar	<i>Thuja plicata</i>	RC	18	132.74
England	Public forest estate	Western red cedar	<i>Thuja plicata</i>	RC	20	69.76
England	Public forest estate	Western red cedar	<i>Thuja plicata</i>	RC	22	43.18
England	Public forest estate	Western red cedar	<i>Thuja plicata</i>	RC	24	43.46
England	Public forest estate	Oak	<i>Quercus spp.</i>	OK	2	1 612.82
England	Public forest estate	Oak	<i>Quercus spp.</i>	OK	4	6 793.48
England	Public forest estate	Oak	<i>Quercus spp.</i>	OK	6	4 515.11
England	Public forest estate	Oak	<i>Quercus spp.</i>	OK	8	655.20
England	Public forest estate	Oak	<i>Quercus spp.</i>	OK	10	51.59
England	Public forest estate	Oak	<i>Quercus spp.</i>	OK	12	2.66
England	Public forest estate	Oak	<i>Quercus spp.</i>	OK	14	0.61
England	Public forest estate	Oak	<i>Quercus spp.</i>	OK	16	1.65
England	Public forest estate	Ash	<i>Fraxinus excelsior</i>	AH	2	149.58
England	Public forest estate	Ash	<i>Fraxinus excelsior</i>	AH	4	1 118.61
England	Public forest estate	Ash	<i>Fraxinus excelsior</i>	AH	6	857.27
England	Public forest estate	Ash	<i>Fraxinus excelsior</i>	AH	8	536.73
England	Public forest estate	Ash	<i>Fraxinus excelsior</i>	AH	10	286.30
England	Public forest estate	Ash	<i>Fraxinus excelsior</i>	AH	12	178.90
England	Public forest estate	Ash	<i>Fraxinus excelsior</i>	AH	14	2.56

Country	Ownership	CARBINE tree species			Yield class (m ³ ha ⁻¹ yr ⁻¹)	Area (ha)
		Common name	Latin name	Sp. code		
England	Public forest estate	Ash	<i>Fraxinus excelsior</i>	AH	16	0.79
England	Public forest estate	Beech	<i>Fagus sylvatica</i>	BE	2	901.32
England	Public forest estate	Beech	<i>Fagus sylvatica</i>	BE	4	1 915.65
England	Public forest estate	Beech	<i>Fagus sylvatica</i>	BE	6	4 251.31
England	Public forest estate	Beech	<i>Fagus sylvatica</i>	BE	8	3 410.91
England	Public forest estate	Beech	<i>Fagus sylvatica</i>	BE	10	1 033.71
England	Public forest estate	Beech	<i>Fagus sylvatica</i>	BE	12	10.80
England	Public forest estate	Beech	<i>Fagus sylvatica</i>	BE	14	1.27
England	Public forest estate	Birch	<i>Betula spp.</i>	BI	2	1 261.56
England	Public forest estate	Birch	<i>Betula spp.</i>	BI	4	4 224.43
England	Public forest estate	Birch	<i>Betula spp.</i>	BI	6	1 278.45
England	Public forest estate	Birch	<i>Betula spp.</i>	BI	8	472.55
England	Public forest estate	Birch	<i>Betula spp.</i>	BI	10	200.08
England	Public forest estate	Birch	<i>Betula spp.</i>	BI	12	250.99
England	Public forest estate	Birch	<i>Betula spp.</i>	BI	14	15.47
England	Public forest estate	Birch	<i>Betula spp.</i>	BI	16	1.50
England	Public forest estate	Birch	<i>Betula spp.</i>	BI	18	0.46
England	Public forest estate	Sycamore	<i>Acer pseudoplatanus</i>	SY	2	2 928.91
England	Public forest estate	Sycamore	<i>Acer pseudoplatanus</i>	SY	4	5 609.99
England	Public forest estate	Sycamore	<i>Acer pseudoplatanus</i>	SY	6	1 559.27
England	Public forest estate	Sycamore	<i>Acer pseudoplatanus</i>	SY	8	541.10
England	Public forest estate	Sycamore	<i>Acer pseudoplatanus</i>	SY	10	232.85
England	Public forest estate	Sycamore	<i>Acer pseudoplatanus</i>	SY	12	1 285.96

Country	Ownership	CARBINE tree species			Yield class (m ³ ha ⁻¹ yr ⁻¹)	Area (ha)
		Common name	Latin name	Sp. code		
England	Public forest estate	Sycamore	<i>Acer pseudoplatanus</i>	SY	14	50.12
England	Public forest estate	Sycamore	<i>Acer pseudoplatanus</i>	SY	16	3.49
England	Public forest estate	Sycamore	<i>Acer pseudoplatanus</i>	SY	18	1.36
England	Public forest estate	Sycamore	<i>Acer pseudoplatanus</i>	SY	20	2.78
England	Public forest estate	Sycamore	<i>Acer pseudoplatanus</i>	SY	22	0.51
England	Public forest estate	Poplar	<i>Populus. spp.</i>	PO	2	38.27
England	Public forest estate	Poplar	<i>Populus. spp.</i>	PO	4	141.19
England	Public forest estate	Poplar	<i>Populus. spp.</i>	PO	6	128.36
England	Public forest estate	Poplar	<i>Populus. spp.</i>	PO	8	68.02
England	Public forest estate	Poplar	<i>Populus. spp.</i>	PO	10	55.33
England	Public forest estate	Poplar	<i>Populus. spp.</i>	PO	12	5.57
England	Public forest estate	Poplar	<i>Populus. spp.</i>	PO	14	44.47
England	Public forest estate	Poplar	<i>Populus. spp.</i>	PO	16	7.41
England	Public forest estate	Poplar	<i>Populus. spp.</i>	PO	24	3.06
England	Public forest estate	Nothofagus	<i>Nothofagus spp.</i>	NO	2	1.33
England	Public forest estate	Nothofagus	<i>Nothofagus spp.</i>	NO	4	0.73
England	Public forest estate	Nothofagus	<i>Nothofagus spp.</i>	NO	6	7.01
England	Public forest estate	Nothofagus	<i>Nothofagus spp.</i>	NO	8	3.52
England	Public forest estate	Nothofagus	<i>Nothofagus spp.</i>	NO	10	18.84
England	Public forest estate	Nothofagus	<i>Nothofagus spp.</i>	NO	12	7.33
England	Public forest estate	Nothofagus	<i>Nothofagus spp.</i>	NO	14	5.15
England	Public forest estate	Nothofagus	<i>Nothofagus spp.</i>	NO	16	0.11
England	Public forest estate	Nothofagus	<i>Nothofagus spp.</i>	NO	18	0.28

Country	Ownership	CARBINE tree species			Yield class (m ³ ha ⁻¹ yr ⁻¹)	Area (ha)
		Common name	Latin name	Sp. code		
England	Private sector	Norway spruce	<i>Picea abies</i>	NS	6	1 233.90
England	Private sector	Norway spruce	<i>Picea abies</i>	NS	8	1 688.07
England	Private sector	Norway spruce	<i>Picea abies</i>	NS	10	2 145.44
England	Private sector	Norway spruce	<i>Picea abies</i>	NS	12	2 372.02
England	Private sector	Norway spruce	<i>Picea abies</i>	NS	14	1 959.21
England	Private sector	Norway spruce	<i>Picea abies</i>	NS	16	2 603.04
England	Private sector	Norway spruce	<i>Picea abies</i>	NS	18	1 608.74
England	Private sector	Norway spruce	<i>Picea abies</i>	NS	20	1 405.87
England	Private sector	Norway spruce	<i>Picea abies</i>	NS	22	1 977.40
England	Private sector	Sitka spruce	<i>Picea sitchensis</i>	SS	6	1 651.38
England	Private sector	Sitka spruce	<i>Picea sitchensis</i>	SS	8	1 664.99
England	Private sector	Sitka spruce	<i>Picea sitchensis</i>	SS	10	1 646.82
England	Private sector	Sitka spruce	<i>Picea sitchensis</i>	SS	12	4 135.66
England	Private sector	Sitka spruce	<i>Picea sitchensis</i>	SS	14	5 785.03
England	Private sector	Sitka spruce	<i>Picea sitchensis</i>	SS	16	3 853.92
England	Private sector	Sitka spruce	<i>Picea sitchensis</i>	SS	18	2 653.38
England	Private sector	Sitka spruce	<i>Picea sitchensis</i>	SS	20	3 950.10
England	Private sector	Sitka spruce	<i>Picea sitchensis</i>	SS	22	977.51
England	Private sector	Sitka spruce	<i>Picea sitchensis</i>	SS	24	1 402.87
England	Private sector	Sitka spruce	<i>Picea sitchensis</i>	SS	26	25.60
England	Private sector	Sitka spruce	<i>Picea sitchensis</i>	SS	28	0.45
England	Private sector	Scots pine	<i>Pinus sylvestris</i>	SP	4	54 368.46
England	Private sector	Scots pine	<i>Pinus sylvestris</i>	SP	6	5 112.35

Country	Ownership	CARBINE tree species			Yield class (m ³ ha ⁻¹ yr ⁻¹)	Area (ha)
		Common name	Latin name	Sp. code		
England	Private sector	Scots pine	<i>Pinus sylvestris</i>	SP	8	6 025.65
England	Private sector	Scots pine	<i>Pinus sylvestris</i>	SP	10	7 687.63
England	Private sector	Scots pine	<i>Pinus sylvestris</i>	SP	12	6 523.11
England	Private sector	Scots pine	<i>Pinus sylvestris</i>	SP	14	11 341.83
England	Private sector	Corsican pine	<i>Pinus nigra</i> ssp. <i>laricio</i>	CP	6	650.76
England	Private sector	Corsican pine	<i>Pinus nigra</i> ssp. <i>laricio</i>	CP	8	1 124.41
England	Private sector	Corsican pine	<i>Pinus nigra</i> ssp. <i>laricio</i>	CP	10	2 579.41
England	Private sector	Corsican pine	<i>Pinus nigra</i> ssp. <i>laricio</i>	CP	12	1 929.06
England	Private sector	Corsican pine	<i>Pinus nigra</i> ssp. <i>laricio</i>	CP	14	2 174.47
England	Private sector	Corsican pine	<i>Pinus nigra</i> ssp. <i>laricio</i>	CP	16	1 624.22
England	Private sector	Corsican pine	<i>Pinus nigra</i> ssp. <i>laricio</i>	CP	18	760.70
England	Private sector	Corsican pine	<i>Pinus nigra</i> ssp. <i>laricio</i>	CP	20	601.20
England	Private sector	Lodgepole pine	<i>Pinus contorta</i>	LP	4	463.40
England	Private sector	Lodgepole pine	<i>Pinus contorta</i>	LP	6	4 143.37
England	Private sector	Lodgepole pine	<i>Pinus contorta</i>	LP	8	2 275.33
England	Private sector	Lodgepole pine	<i>Pinus contorta</i>	LP	10	1 287.18
England	Private sector	Lodgepole pine	<i>Pinus contorta</i>	LP	12	1 414.98
England	Private sector	Lodgepole pine	<i>Pinus contorta</i>	LP	14	174.90
England	Private sector	Lodgepole pine	<i>Pinus contorta</i>	LP	16	17.78
England	Private sector	Lodgepole pine	<i>Pinus contorta</i>	LP	18	7.18
England	Private sector	Lodgepole pine	<i>Pinus contorta</i>	LP	20	95.28
England	Private sector	European larch	<i>Larix decidua</i>	EL	2	96.77
England	Private sector	European larch	<i>Larix decidua</i>	EL	4	382.68

Country	Ownership	CARBINE tree species			Yield class (m ³ ha ⁻¹ yr ⁻¹)	Area (ha)
		Common name	Latin name	Sp. code		
England	Private sector	European larch	<i>Larix decidua</i>	EL	6	980.42
England	Private sector	European larch	<i>Larix decidua</i>	EL	8	1 093.13
England	Private sector	European larch	<i>Larix decidua</i>	EL	10	683.77
England	Private sector	European larch	<i>Larix decidua</i>	EL	12	839.48
England	Private sector	European larch	<i>Larix decidua</i>	EL	14	18.20
England	Private sector	Japanese/hybrid larch	<i>Larix kaempferi</i> /L.	JL	2	133.38
England	Private sector	Japanese/hybrid larch	<i>Larix kaempferi</i> /L.	JL	4	1 313.92
England	Private sector	Japanese/hybrid larch	<i>Larix kaempferi</i> /L.	JL	6	2 530.20
England	Private sector	Japanese/hybrid larch	<i>Larix kaempferi</i> /L.	JL	8	3 621.11
England	Private sector	Japanese/hybrid larch	<i>Larix kaempferi</i> /L.	JL	10	4 313.26
England	Private sector	Japanese/hybrid larch	<i>Larix kaempferi</i> /L.	JL	12	4 341.19
England	Private sector	Japanese/hybrid larch	<i>Larix kaempferi</i> /L.	JL	14	5 534.83
England	Private sector	Douglas fir	<i>Pseudotsuga menziesii</i>	DF	8	3 023.21
England	Private sector	Douglas fir	<i>Pseudotsuga menziesii</i>	DF	10	2 656.45
England	Private sector	Douglas fir	<i>Pseudotsuga menziesii</i>	DF	12	1 976.29
England	Private sector	Douglas fir	<i>Pseudotsuga menziesii</i>	DF	14	1 946.20
England	Private sector	Douglas fir	<i>Pseudotsuga menziesii</i>	DF	16	1 395.49
England	Private sector	Douglas fir	<i>Pseudotsuga menziesii</i>	DF	18	919.10
England	Private sector	Douglas fir	<i>Pseudotsuga menziesii</i>	DF	20	774.43
England	Private sector	Douglas fir	<i>Pseudotsuga menziesii</i>	DF	22	312.70
England	Private sector	Douglas fir	<i>Pseudotsuga menziesii</i>	DF	24	501.21
England	Private sector	Douglas fir	<i>Pseudotsuga menziesii</i>	DF	26	2.02
England	Private sector	Grand fir	<i>Abies grandis</i>	GF	8	103.10

Country	Ownership	CARBINE tree species			Yield class (m ³ ha ⁻¹ yr ⁻¹)	Area (ha)
		Common name	Latin name	Sp. code		
England	Private sector	Grand fir	<i>Abies grandis</i>	GF	10	138.72
England	Private sector	Grand fir	<i>Abies grandis</i>	GF	12	111.87
England	Private sector	Grand fir	<i>Abies grandis</i>	GF	14	90.52
England	Private sector	Grand fir	<i>Abies grandis</i>	GF	16	59.81
England	Private sector	Grand fir	<i>Abies grandis</i>	GF	18	30.01
England	Private sector	Grand fir	<i>Abies grandis</i>	GF	20	28.62
England	Private sector	Grand fir	<i>Abies grandis</i>	GF	22	9.51
England	Private sector	Grand fir	<i>Abies grandis</i>	GF	24	9.45
England	Private sector	Grand fir	<i>Abies grandis</i>	GF	26	11.37
England	Private sector	Grand fir	<i>Abies grandis</i>	GF	28	5.65
England	Private sector	Grand fir	<i>Abies grandis</i>	GF	30	11.03
England	Private sector	Noble fir	<i>Abies procera</i>	NF	8	57.55
England	Private sector	Noble fir	<i>Abies procera</i>	NF	10	32.94
England	Private sector	Noble fir	<i>Abies procera</i>	NF	12	26.99
England	Private sector	Noble fir	<i>Abies procera</i>	NF	14	25.23
England	Private sector	Noble fir	<i>Abies procera</i>	NF	16	12.00
England	Private sector	Noble fir	<i>Abies procera</i>	NF	18	4.56
England	Private sector	Noble fir	<i>Abies procera</i>	NF	20	4.84
England	Private sector	Noble fir	<i>Abies procera</i>	NF	22	5.13
England	Private sector	Western hemlock	<i>Tsuga heterophylla</i>	WH	4	0.34
England	Private sector	Western hemlock	<i>Tsuga heterophylla</i>	WH	6	9.28
England	Private sector	Western hemlock	<i>Tsuga heterophylla</i>	WH	8	17.90
England	Private sector	Western hemlock	<i>Tsuga heterophylla</i>	WH	10	79.07

Country	Ownership	CARBINE tree species			Yield class (m ³ ha ⁻¹ yr ⁻¹)	Area (ha)
		Common name	Latin name	Sp. code		
England	Private sector	Western hemlock	<i>Tsuga heterophylla</i>	WH	12	1 307.42
England	Private sector	Western hemlock	<i>Tsuga heterophylla</i>	WH	14	705.19
England	Private sector	Western hemlock	<i>Tsuga heterophylla</i>	WH	16	1 033.32
England	Private sector	Western hemlock	<i>Tsuga heterophylla</i>	WH	18	961.77
England	Private sector	Western hemlock	<i>Tsuga heterophylla</i>	WH	20	305.69
England	Private sector	Western hemlock	<i>Tsuga heterophylla</i>	WH	22	223.62
England	Private sector	Western hemlock	<i>Tsuga heterophylla</i>	WH	24	139.57
England	Private sector	Western red cedar	<i>Thuja plicata</i>	RC	4	6.21
England	Private sector	Western red cedar	<i>Thuja plicata</i>	RC	6	32.91
England	Private sector	Western red cedar	<i>Thuja plicata</i>	RC	8	38.25
England	Private sector	Western red cedar	<i>Thuja plicata</i>	RC	10	299.27
England	Private sector	Western red cedar	<i>Thuja plicata</i>	RC	12	1 849.57
England	Private sector	Western red cedar	<i>Thuja plicata</i>	RC	14	442.52
England	Private sector	Western red cedar	<i>Thuja plicata</i>	RC	16	622.38
England	Private sector	Western red cedar	<i>Thuja plicata</i>	RC	18	423.00
England	Private sector	Western red cedar	<i>Thuja plicata</i>	RC	20	85.99
England	Private sector	Western red cedar	<i>Thuja plicata</i>	RC	22	81.94
England	Private sector	Western red cedar	<i>Thuja plicata</i>	RC	24	65.30
England	Private sector	Oak	<i>Quercus spp.</i>	OK	2	25 210.93
England	Private sector	Oak	<i>Quercus spp.</i>	OK	4	52 023.89
England	Private sector	Oak	<i>Quercus spp.</i>	OK	6	40 256.51
England	Private sector	Oak	<i>Quercus spp.</i>	OK	8	25 488.91
England	Private sector	Ash	<i>Fraxinus excelsior</i>	AH	2	13 393.90

Country	Ownership	CARBINE tree species			Yield class (m ³ ha ⁻¹ yr ⁻¹)	Area (ha)
		Common name	Latin name	Sp. code		
England	Private sector	Ash	<i>Fraxinus excelsior</i>	AH	4	19 405.44
England	Private sector	Ash	<i>Fraxinus excelsior</i>	AH	6	18 919.05
England	Private sector	Ash	<i>Fraxinus excelsior</i>	AH	8	17 142.23
England	Private sector	Ash	<i>Fraxinus excelsior</i>	AH	10	12 183.33
England	Private sector	Ash	<i>Fraxinus excelsior</i>	AH	12	23 490.30
England	Private sector	Beech	<i>Fagus sylvatica</i>	BE	4	23 089.50
England	Private sector	Beech	<i>Fagus sylvatica</i>	BE	6	30 028.96
England	Private sector	Beech	<i>Fagus sylvatica</i>	BE	8	21 914.40
England	Private sector	Beech	<i>Fagus sylvatica</i>	BE	10	15 537.50
England	Private sector	Birch	<i>Betula spp.</i>	BI	2	26 092.43
England	Private sector	Birch	<i>Betula spp.</i>	BI	4	26 292.67
England	Private sector	Birch	<i>Betula spp.</i>	BI	6	22 109.71
England	Private sector	Birch	<i>Betula spp.</i>	BI	8	12 520.38
England	Private sector	Birch	<i>Betula spp.</i>	BI	10	6 959.63
England	Private sector	Birch	<i>Betula spp.</i>	BI	12	9 309.89
England	Private sector	Sycamore	<i>Acer pseudoplatanus</i>	SY	2	14 728.92
England	Private sector	Sycamore	<i>Acer pseudoplatanus</i>	SY	4	14 046.96
England	Private sector	Sycamore	<i>Acer pseudoplatanus</i>	SY	6	9 666.03
England	Private sector	Sycamore	<i>Acer pseudoplatanus</i>	SY	8	6 512.02
England	Private sector	Sycamore	<i>Acer pseudoplatanus</i>	SY	10	9 695.20
England	Private sector	Sycamore	<i>Acer pseudoplatanus</i>	SY	12	13 393.90
England	Private sector	Poplar	<i>Populus. spp.</i>	PO	2	1 916.12
England	Private sector	Poplar	<i>Populus. spp.</i>	PO	4	1 837.53

Country	Ownership	CARBINE tree species			Yield class (m ³ ha ⁻¹ yr ⁻¹)	Area (ha)
		Common name	Latin name	Sp. code		
England	Private sector	Poplar	<i>Populus</i> . spp.	PO	6	1 512.33
England	Private sector	Poplar	<i>Populus</i> . spp.	PO	8	1 976.79
England	Private sector	Poplar	<i>Populus</i> . spp.	PO	10	177.13
England	Private sector	Poplar	<i>Populus</i> . spp.	PO	12	69.23
England	Private sector	Poplar	<i>Populus</i> . spp.	PO	14	377 853.69
England	Private sector	Nothofagus	<i>Nothofagus</i> spp.	NO	2	119 738.23
England	Private sector	Nothofagus	<i>Nothofagus</i> spp.	NO	4	54 731.37
England	Private sector	Nothofagus	<i>Nothofagus</i> spp.	NO	6	24 488.81
England	Private sector	Nothofagus	<i>Nothofagus</i> spp.	NO	8	24 728.01
England	Private sector	Nothofagus	<i>Nothofagus</i> spp.	NO	10	3 121.59
England	Private sector	Nothofagus	<i>Nothofagus</i> spp.	NO	12	1 059.16
England	Private sector	Nothofagus	<i>Nothofagus</i> spp.	NO	14	1 067.42
England	Private sector	Nothofagus	<i>Nothofagus</i> spp.	NO	16	5 933.98
England	Private sector	Nothofagus	<i>Nothofagus</i> spp.	NO	18	405.36
Scotland	Public forest estate	Norway spruce	<i>Picea abies</i>	NS	2	255.65
Scotland	Public forest estate	Norway spruce	<i>Picea abies</i>	NS	4	258.00
Scotland	Public forest estate	Norway spruce	<i>Picea abies</i>	NS	6	578.18
Scotland	Public forest estate	Norway spruce	<i>Picea abies</i>	NS	8	1 114.11
Scotland	Public forest estate	Norway spruce	<i>Picea abies</i>	NS	10	1 760.73
Scotland	Public forest estate	Norway spruce	<i>Picea abies</i>	NS	12	2 963.31
Scotland	Public forest estate	Norway spruce	<i>Picea abies</i>	NS	14	2 872.01
Scotland	Public forest estate	Norway spruce	<i>Picea abies</i>	NS	16	1 648.06
Scotland	Public forest estate	Norway spruce	<i>Picea abies</i>	NS	18	724.13

Country	Ownership	CARBINE tree species			Yield class (m ³ ha ⁻¹ yr ⁻¹)	Area (ha)
		Common name	Latin name	Sp. code		
Scotland	Public forest estate	Norway spruce	<i>Picea abies</i>	NS	20	288.93
Scotland	Public forest estate	Norway spruce	<i>Picea abies</i>	NS	22	109.82
Scotland	Public forest estate	Norway spruce	<i>Picea abies</i>	NS	24	6.89
Scotland	Public forest estate	Norway spruce	<i>Picea abies</i>	NS	26	0.63
Scotland	Public forest estate	Sitka spruce	<i>Picea sitchensis</i>	SS	2	2 219.28
Scotland	Public forest estate	Sitka spruce	<i>Picea sitchensis</i>	SS	4	2 870.94
Scotland	Public forest estate	Sitka spruce	<i>Picea sitchensis</i>	SS	6	4 710.13
Scotland	Public forest estate	Sitka spruce	<i>Picea sitchensis</i>	SS	8	9 161.05
Scotland	Public forest estate	Sitka spruce	<i>Picea sitchensis</i>	SS	10	15 773.72
Scotland	Public forest estate	Sitka spruce	<i>Picea sitchensis</i>	SS	12	34 958.90
Scotland	Public forest estate	Sitka spruce	<i>Picea sitchensis</i>	SS	14	44 105.34
Scotland	Public forest estate	Sitka spruce	<i>Picea sitchensis</i>	SS	16	49 967.51
Scotland	Public forest estate	Sitka spruce	<i>Picea sitchensis</i>	SS	18	22 892.67
Scotland	Public forest estate	Sitka spruce	<i>Picea sitchensis</i>	SS	20	11 512.00
Scotland	Public forest estate	Sitka spruce	<i>Picea sitchensis</i>	SS	22	5 714.92
Scotland	Public forest estate	Sitka spruce	<i>Picea sitchensis</i>	SS	24	6 325.85
Scotland	Public forest estate	Sitka spruce	<i>Picea sitchensis</i>	SS	26	365.97
Scotland	Public forest estate	Sitka spruce	<i>Picea sitchensis</i>	SS	28	0.07
Scotland	Public forest estate	Sitka spruce	<i>Picea sitchensis</i>	SS	30	0.33
Scotland	Public forest estate	Scots pine	<i>Pinus sylvestris</i>	SP	2	2 078.33
Scotland	Public forest estate	Scots pine	<i>Pinus sylvestris</i>	SP	4	2 624.06
Scotland	Public forest estate	Scots pine	<i>Pinus sylvestris</i>	SP	6	7 199.15
Scotland	Public forest estate	Scots pine	<i>Pinus sylvestris</i>	SP	8	15 481.03

Country	Ownership	CARBINE tree species			Yield class (m ³ ha ⁻¹ yr ⁻¹)	Area (ha)
		Common name	Latin name	Sp. code		
Scotland	Public forest estate	Scots pine	<i>Pinus sylvestris</i>	SP	10	10 591.67
Scotland	Public forest estate	Scots pine	<i>Pinus sylvestris</i>	SP	12	3 434.63
Scotland	Public forest estate	Scots pine	<i>Pinus sylvestris</i>	SP	14	720.13
Scotland	Public forest estate	Scots pine	<i>Pinus sylvestris</i>	SP	16	47.78
Scotland	Public forest estate	Scots pine	<i>Pinus sylvestris</i>	SP	18	1.38
Scotland	Public forest estate	Corsican pine	<i>Pinus nigra</i> ssp. <i>laricio</i>	CP	2	1.92
Scotland	Public forest estate	Corsican pine	<i>Pinus nigra</i> ssp. <i>laricio</i>	CP	4	43.64
Scotland	Public forest estate	Corsican pine	<i>Pinus nigra</i> ssp. <i>laricio</i>	CP	6	312.94
Scotland	Public forest estate	Corsican pine	<i>Pinus nigra</i> ssp. <i>laricio</i>	CP	8	376.25
Scotland	Public forest estate	Corsican pine	<i>Pinus nigra</i> ssp. <i>laricio</i>	CP	10	335.67
Scotland	Public forest estate	Corsican pine	<i>Pinus nigra</i> ssp. <i>laricio</i>	CP	12	225.18
Scotland	Public forest estate	Corsican pine	<i>Pinus nigra</i> ssp. <i>laricio</i>	CP	14	33.65
Scotland	Public forest estate	Corsican pine	<i>Pinus nigra</i> ssp. <i>laricio</i>	CP	16	1.32
Scotland	Public forest estate	Corsican pine	<i>Pinus nigra</i> ssp. <i>laricio</i>	CP	18	2.55
Scotland	Public forest estate	Lodgepole pine	<i>Pinus contorta</i>	LP	2	732.10
Scotland	Public forest estate	Lodgepole pine	<i>Pinus contorta</i>	LP	4	4 755.85
Scotland	Public forest estate	Lodgepole pine	<i>Pinus contorta</i>	LP	6	12 471.48
Scotland	Public forest estate	Lodgepole pine	<i>Pinus contorta</i>	LP	8	13 026.54
Scotland	Public forest estate	Lodgepole pine	<i>Pinus contorta</i>	LP	10	5 078.09
Scotland	Public forest estate	Lodgepole pine	<i>Pinus contorta</i>	LP	12	957.12
Scotland	Public forest estate	Lodgepole pine	<i>Pinus contorta</i>	LP	14	263.82
Scotland	Public forest estate	Lodgepole pine	<i>Pinus contorta</i>	LP	16	36.86
Scotland	Public forest estate	Lodgepole pine	<i>Pinus contorta</i>	LP	20	0.42

Country	Ownership	CARBINE tree species			Yield class (m ³ ha ⁻¹ yr ⁻¹)	Area (ha)
		Common name	Latin name	Sp. code		
Scotland	Public forest estate	European larch	Larix decidua	EL	2	77.05
Scotland	Public forest estate	European larch	Larix decidua	EL	4	275.82
Scotland	Public forest estate	European larch	Larix decidua	EL	6	674.28
Scotland	Public forest estate	European larch	Larix decidua	EL	8	893.68
Scotland	Public forest estate	European larch	Larix decidua	EL	10	739.58
Scotland	Public forest estate	European larch	Larix decidua	EL	12	770.39
Scotland	Public forest estate	European larch	Larix decidua	EL	14	69.79
Scotland	Public forest estate	European larch	Larix decidua	EL	16	0.17
Scotland	Public forest estate	European larch	Larix decidua	EL	18	0.11
Scotland	Public forest estate	Japanese/hybrid larch	Larix kaempferi/L.	JL	2	215.00
Scotland	Public forest estate	Japanese/hybrid larch	Larix kaempferi/L.	JL	4	1 431.16
Scotland	Public forest estate	Japanese/hybrid larch	Larix kaempferi/L.	JL	6	2 704.25
Scotland	Public forest estate	Japanese/hybrid larch	Larix kaempferi/L.	JL	8	4 950.26
Scotland	Public forest estate	Japanese/hybrid larch	Larix kaempferi/L.	JL	10	5 618.65
Scotland	Public forest estate	Japanese/hybrid larch	Larix kaempferi/L.	JL	12	4 176.90
Scotland	Public forest estate	Japanese/hybrid larch	Larix kaempferi/L.	JL	14	1 723.79
Scotland	Public forest estate	Japanese/hybrid larch	Larix kaempferi/L.	JL	16	174.78
Scotland	Public forest estate	Japanese/hybrid larch	Larix kaempferi/L.	JL	18	0.31
Scotland	Public forest estate	Japanese/hybrid larch	Larix kaempferi/L.	JL	20	0.50
Scotland	Public forest estate	Douglas fir	Pseudotsuga menziesii	DF	2	16.99
Scotland	Public forest estate	Douglas fir	Pseudotsuga menziesii	DF	4	10.75
Scotland	Public forest estate	Douglas fir	Pseudotsuga menziesii	DF	6	24.64
Scotland	Public forest estate	Douglas fir	Pseudotsuga menziesii	DF	8	143.29

Country	Ownership	CARBINE tree species			Yield class (m ³ ha ⁻¹ yr ⁻¹)	Area (ha)
		Common name	Latin name	Sp. code		
Scotland	Public forest estate	Douglas fir	<i>Pseudotsuga menziesii</i>	DF	10	463.78
Scotland	Public forest estate	Douglas fir	<i>Pseudotsuga menziesii</i>	DF	12	783.67
Scotland	Public forest estate	Douglas fir	<i>Pseudotsuga menziesii</i>	DF	14	1 032.97
Scotland	Public forest estate	Douglas fir	<i>Pseudotsuga menziesii</i>	DF	16	1 125.91
Scotland	Public forest estate	Douglas fir	<i>Pseudotsuga menziesii</i>	DF	18	630.87
Scotland	Public forest estate	Douglas fir	<i>Pseudotsuga menziesii</i>	DF	20	376.78
Scotland	Public forest estate	Douglas fir	<i>Pseudotsuga menziesii</i>	DF	22	162.21
Scotland	Public forest estate	Douglas fir	<i>Pseudotsuga menziesii</i>	DF	24	151.33
Scotland	Public forest estate	Douglas fir	<i>Pseudotsuga menziesii</i>	DF	26	1.28
Scotland	Public forest estate	Grand fir	<i>Abies grandis</i>	GF	2	6.97
Scotland	Public forest estate	Grand fir	<i>Abies grandis</i>	GF	4	3.60
Scotland	Public forest estate	Grand fir	<i>Abies grandis</i>	GF	6	0.19
Scotland	Public forest estate	Grand fir	<i>Abies grandis</i>	GF	8	3.21
Scotland	Public forest estate	Grand fir	<i>Abies grandis</i>	GF	10	13.40
Scotland	Public forest estate	Grand fir	<i>Abies grandis</i>	GF	12	44.89
Scotland	Public forest estate	Grand fir	<i>Abies grandis</i>	GF	14	39.19
Scotland	Public forest estate	Grand fir	<i>Abies grandis</i>	GF	16	48.71
Scotland	Public forest estate	Grand fir	<i>Abies grandis</i>	GF	18	28.42
Scotland	Public forest estate	Grand fir	<i>Abies grandis</i>	GF	20	46.33
Scotland	Public forest estate	Grand fir	<i>Abies grandis</i>	GF	22	32.39
Scotland	Public forest estate	Grand fir	<i>Abies grandis</i>	GF	24	13.23
Scotland	Public forest estate	Grand fir	<i>Abies grandis</i>	GF	26	7.72
Scotland	Public forest estate	Grand fir	<i>Abies grandis</i>	GF	28	10.40

Country	Ownership	CARBINE tree species			Yield class (m ³ ha ⁻¹ yr ⁻¹)	Area (ha)
		Common name	Latin name	Sp. code		
Scotland	Public forest estate	Grand fir	<i>Abies grandis</i>	GF	30	5.81
Scotland	Public forest estate	Noble fir	<i>Abies procera</i>	NF	2	23.04
Scotland	Public forest estate	Noble fir	<i>Abies procera</i>	NF	4	15.89
Scotland	Public forest estate	Noble fir	<i>Abies procera</i>	NF	6	7.91
Scotland	Public forest estate	Noble fir	<i>Abies procera</i>	NF	8	32.50
Scotland	Public forest estate	Noble fir	<i>Abies procera</i>	NF	10	77.85
Scotland	Public forest estate	Noble fir	<i>Abies procera</i>	NF	12	131.42
Scotland	Public forest estate	Noble fir	<i>Abies procera</i>	NF	14	133.53
Scotland	Public forest estate	Noble fir	<i>Abies procera</i>	NF	16	91.77
Scotland	Public forest estate	Noble fir	<i>Abies procera</i>	NF	18	32.39
Scotland	Public forest estate	Noble fir	<i>Abies procera</i>	NF	20	23.01
Scotland	Public forest estate	Noble fir	<i>Abies procera</i>	NF	22	43.83
Scotland	Public forest estate	Noble fir	<i>Abies procera</i>	NF	24	5.41
Scotland	Public forest estate	Noble fir	<i>Abies procera</i>	NF	26	0.16
Scotland	Public forest estate	Noble fir	<i>Abies procera</i>	NF	28	0.42
Scotland	Public forest estate	Western hemlock	<i>Tsuga heterophylla</i>	WH	2	6.36
Scotland	Public forest estate	Western hemlock	<i>Tsuga heterophylla</i>	WH	4	2.61
Scotland	Public forest estate	Western hemlock	<i>Tsuga heterophylla</i>	WH	6	8.36
Scotland	Public forest estate	Western hemlock	<i>Tsuga heterophylla</i>	WH	8	25.08
Scotland	Public forest estate	Western hemlock	<i>Tsuga heterophylla</i>	WH	10	28.57
Scotland	Public forest estate	Western hemlock	<i>Tsuga heterophylla</i>	WH	12	97.46
Scotland	Public forest estate	Western hemlock	<i>Tsuga heterophylla</i>	WH	14	103.82
Scotland	Public forest estate	Western hemlock	<i>Tsuga heterophylla</i>	WH	16	72.24

Country	Ownership	CARBINE tree species			Yield class (m ³ ha ⁻¹ yr ⁻¹)	Area (ha)
		Common name	Latin name	Sp. code		
Scotland	Public forest estate	Western hemlock	<i>Tsuga heterophylla</i>	WH	18	68.97
Scotland	Public forest estate	Western hemlock	<i>Tsuga heterophylla</i>	WH	20	43.17
Scotland	Public forest estate	Western hemlock	<i>Tsuga heterophylla</i>	WH	22	23.75
Scotland	Public forest estate	Western hemlock	<i>Tsuga heterophylla</i>	WH	24	17.48
Scotland	Public forest estate	Western hemlock	<i>Tsuga heterophylla</i>	WH	26	3.71
Scotland	Public forest estate	Western red cedar	<i>Thuja plicata</i>	RC	2	3.40
Scotland	Public forest estate	Western red cedar	<i>Thuja plicata</i>	RC	4	5.55
Scotland	Public forest estate	Western red cedar	<i>Thuja plicata</i>	RC	6	3.80
Scotland	Public forest estate	Western red cedar	<i>Thuja plicata</i>	RC	8	13.99
Scotland	Public forest estate	Western red cedar	<i>Thuja plicata</i>	RC	10	11.83
Scotland	Public forest estate	Western red cedar	<i>Thuja plicata</i>	RC	12	28.51
Scotland	Public forest estate	Western red cedar	<i>Thuja plicata</i>	RC	14	20.99
Scotland	Public forest estate	Western red cedar	<i>Thuja plicata</i>	RC	16	21.87
Scotland	Public forest estate	Western red cedar	<i>Thuja plicata</i>	RC	18	9.73
Scotland	Public forest estate	Western red cedar	<i>Thuja plicata</i>	RC	20	7.06
Scotland	Public forest estate	Western red cedar	<i>Thuja plicata</i>	RC	22	0.16
Scotland	Public forest estate	Western red cedar	<i>Thuja plicata</i>	RC	24	0.89
Scotland	Public forest estate	Oak	<i>Quercus spp.</i>	OK	2	1 135.46
Scotland	Public forest estate	Oak	<i>Quercus spp.</i>	OK	4	1 270.51
Scotland	Public forest estate	Oak	<i>Quercus spp.</i>	OK	6	235.47
Scotland	Public forest estate	Oak	<i>Quercus spp.</i>	OK	8	25.87
Scotland	Public forest estate	Oak	<i>Quercus spp.</i>	OK	10	6.85
Scotland	Public forest estate	Oak	<i>Quercus spp.</i>	OK	12	1.34

Country	Ownership	CARBINE tree species			Yield class (m ³ ha ⁻¹ yr ⁻¹)	Area (ha)
		Common name	Latin name	Sp. code		
Scotland	Public forest estate	Oak	Quercus spp.	OK	14	4.28
Scotland	Public forest estate	Oak	Quercus spp.	OK	16	2.50
Scotland	Public forest estate	Ash	Fraxinus excelsior	AH	2	133.60
Scotland	Public forest estate	Ash	Fraxinus excelsior	AH	4	153.30
Scotland	Public forest estate	Ash	Fraxinus excelsior	AH	6	120.20
Scotland	Public forest estate	Ash	Fraxinus excelsior	AH	8	120.00
Scotland	Public forest estate	Ash	Fraxinus excelsior	AH	10	5.07
Scotland	Public forest estate	Ash	Fraxinus excelsior	AH	12	3.23
Scotland	Public forest estate	Ash	Fraxinus excelsior	AH	16	0.47
Scotland	Public forest estate	Ash	Fraxinus excelsior	AH	20	0.84
Scotland	Public forest estate	Beech	Fagus sylvatica	BE	2	159.42
Scotland	Public forest estate	Beech	Fagus sylvatica	BE	4	205.32
Scotland	Public forest estate	Beech	Fagus sylvatica	BE	6	225.97
Scotland	Public forest estate	Beech	Fagus sylvatica	BE	8	41.66
Scotland	Public forest estate	Beech	Fagus sylvatica	BE	10	5.61
Scotland	Public forest estate	Beech	Fagus sylvatica	BE	12	1.48
Scotland	Public forest estate	Beech	Fagus sylvatica	BE	14	1.41
Scotland	Public forest estate	Beech	Fagus sylvatica	BE	18	0.13
Scotland	Public forest estate	Birch	Betula spp.	BI	2	6 470.66
Scotland	Public forest estate	Birch	Betula spp.	BI	4	3 928.41
Scotland	Public forest estate	Birch	Betula spp.	BI	6	1 539.69
Scotland	Public forest estate	Birch	Betula spp.	BI	8	245.26
Scotland	Public forest estate	Birch	Betula spp.	BI	10	84.32

Country	Ownership	CARBINE tree species			Yield class (m ³ ha ⁻¹ yr ⁻¹)	Area (ha)
		Common name	Latin name	Sp. code		
Scotland	Public forest estate	Birch	Betula spp.	BI	12	44.72
Scotland	Public forest estate	Birch	Betula spp.	BI	14	17.57
Scotland	Public forest estate	Birch	Betula spp.	BI	16	2.64
Scotland	Public forest estate	Birch	Betula spp.	BI	18	0.82
Scotland	Public forest estate	Birch	Betula spp.	BI	22	0.12
Scotland	Public forest estate	Sycamore	Acer pseudoplatanus	SY	2	8 252.17
Scotland	Public forest estate	Sycamore	Acer pseudoplatanus	SY	4	3 530.45
Scotland	Public forest estate	Sycamore	Acer pseudoplatanus	SY	6	1 719.60
Scotland	Public forest estate	Sycamore	Acer pseudoplatanus	SY	8	207.62
Scotland	Public forest estate	Sycamore	Acer pseudoplatanus	SY	10	53.30
Scotland	Public forest estate	Sycamore	Acer pseudoplatanus	SY	12	97.10
Scotland	Public forest estate	Sycamore	Acer pseudoplatanus	SY	14	43.13
Scotland	Public forest estate	Sycamore	Acer pseudoplatanus	SY	16	11.69
Scotland	Public forest estate	Sycamore	Acer pseudoplatanus	SY	18	14.88
Scotland	Public forest estate	Sycamore	Acer pseudoplatanus	SY	20	1.06
Scotland	Public forest estate	Sycamore	Acer pseudoplatanus	SY	24	0.10
Scotland	Public forest estate	Poplar	Populus. spp.	PO	2	34.35
Scotland	Public forest estate	Poplar	Populus. spp.	PO	4	32.89
Scotland	Public forest estate	Poplar	Populus. spp.	PO	6	12.98
Scotland	Public forest estate	Poplar	Populus. spp.	PO	8	8.40
Scotland	Public forest estate	Poplar	Populus. spp.	PO	10	1.00
Scotland	Public forest estate	Poplar	Populus. spp.	PO	12	0.15
Scotland	Public forest estate	Poplar	Populus. spp.	PO	14	0.13

Country	Ownership	CARBINE tree species			Yield class (m ³ ha ⁻¹ yr ⁻¹)	Area (ha)
		Common name	Latin name	Sp. code		
Scotland	Public forest estate	Nothofagus	Nothofagus spp.	NO	2	1.03
Scotland	Public forest estate	Nothofagus	Nothofagus spp.	NO	4	2.74
Scotland	Public forest estate	Nothofagus	Nothofagus spp.	NO	6	1.13
Scotland	Public forest estate	Nothofagus	Nothofagus spp.	NO	8	0.90
Scotland	Public forest estate	Nothofagus	Nothofagus spp.	NO	10	3.81
Scotland	Public forest estate	Nothofagus	Nothofagus spp.	NO	12	0.83
Scotland	Public forest estate	Nothofagus	Nothofagus spp.	NO	14	1.25
Scotland	Public forest estate	Nothofagus	Nothofagus spp.	NO	18	0.06
Scotland	Private sector	Norway spruce	Picea abies	NS	6	711.77
Scotland	Private sector	Norway spruce	Picea abies	NS	8	859.35
Scotland	Private sector	Norway spruce	Picea abies	NS	10	1 495.85
Scotland	Private sector	Norway spruce	Picea abies	NS	12	2 024.03
Scotland	Private sector	Norway spruce	Picea abies	NS	14	2 189.49
Scotland	Private sector	Norway spruce	Picea abies	NS	16	2 691.80
Scotland	Private sector	Norway spruce	Picea abies	NS	18	1 666.90
Scotland	Private sector	Norway spruce	Picea abies	NS	20	1 137.91
Scotland	Private sector	Norway spruce	Picea abies	NS	22	1 689.68
Scotland	Private sector	Sitka spruce	Picea sitchensis	SS	6	18 381.00
Scotland	Private sector	Sitka spruce	Picea sitchensis	SS	8	18 742.27
Scotland	Private sector	Sitka spruce	Picea sitchensis	SS	10	25 641.57
Scotland	Private sector	Sitka spruce	Picea sitchensis	SS	12	33 610.04
Scotland	Private sector	Sitka spruce	Picea sitchensis	SS	14	43 139.37
Scotland	Private sector	Sitka spruce	Picea sitchensis	SS	16	38 907.92

Country	Ownership	CARBINE tree species			Yield class (m ³ ha ⁻¹ yr ⁻¹)	Area (ha)
		Common name	Latin name	Sp. code		
Scotland	Private sector	Sitka spruce	<i>Picea sitchensis</i>	SS	18	37 406.67
Scotland	Private sector	Sitka spruce	<i>Picea sitchensis</i>	SS	20	32 994.32
Scotland	Private sector	Sitka spruce	<i>Picea sitchensis</i>	SS	22	21 215.96
Scotland	Private sector	Sitka spruce	<i>Picea sitchensis</i>	SS	24	30 545.16
Scotland	Private sector	Sitka spruce	<i>Picea sitchensis</i>	SS	26	1 761.07
Scotland	Private sector	Sitka spruce	<i>Picea sitchensis</i>	SS	28	0.34
Scotland	Private sector	Sitka spruce	<i>Picea sitchensis</i>	SS	30	1.60
Scotland	Private sector	Scots pine	<i>Pinus sylvestris</i>	SP	4	24 479.37
Scotland	Private sector	Scots pine	<i>Pinus sylvestris</i>	SP	6	11 543.15
Scotland	Private sector	Scots pine	<i>Pinus sylvestris</i>	SP	8	19 239.74
Scotland	Private sector	Scots pine	<i>Pinus sylvestris</i>	SP	10	22 309.56
Scotland	Private sector	Scots pine	<i>Pinus sylvestris</i>	SP	12	19 949.75
Scotland	Private sector	Scots pine	<i>Pinus sylvestris</i>	SP	14	21 941.88
Scotland	Private sector	Corsican pine	<i>Pinus nigra</i> ssp. <i>laricio</i>	CP	4	25.84
Scotland	Private sector	Corsican pine	<i>Pinus nigra</i> ssp. <i>laricio</i>	CP	6	209.03
Scotland	Private sector	Corsican pine	<i>Pinus nigra</i> ssp. <i>laricio</i>	CP	8	347.98
Scotland	Private sector	Corsican pine	<i>Pinus nigra</i> ssp. <i>laricio</i>	CP	10	588.50
Scotland	Private sector	Corsican pine	<i>Pinus nigra</i> ssp. <i>laricio</i>	CP	12	873.17
Scotland	Private sector	Corsican pine	<i>Pinus nigra</i> ssp. <i>laricio</i>	CP	14	320.81
Scotland	Private sector	Lodgepole pine	<i>Pinus contorta</i>	LP	4	3 005.67
Scotland	Private sector	Lodgepole pine	<i>Pinus contorta</i>	LP	6	8 547.45
Scotland	Private sector	Lodgepole pine	<i>Pinus contorta</i>	LP	8	12 482.76
Scotland	Private sector	Lodgepole pine	<i>Pinus contorta</i>	LP	10	9 216.45

Country	Ownership	CARBINE tree species			Yield class (m ³ ha ⁻¹ yr ⁻¹)	Area (ha)
		Common name	Latin name	Sp. code		
Scotland	Private sector	Lodgepole pine	<i>Pinus contorta</i>	LP	12	3 543.61
Scotland	Private sector	Lodgepole pine	<i>Pinus contorta</i>	LP	14	2 113.53
Scotland	Private sector	Lodgepole pine	<i>Pinus contorta</i>	LP	20	78.75
Scotland	Private sector	European larch	<i>Larix decidua</i>	EL	2	148.15
Scotland	Private sector	European larch	<i>Larix decidua</i>	EL	4	633.65
Scotland	Private sector	European larch	<i>Larix decidua</i>	EL	6	1 343.72
Scotland	Private sector	European larch	<i>Larix decidua</i>	EL	8	931.01
Scotland	Private sector	European larch	<i>Larix decidua</i>	EL	10	952.22
Scotland	Private sector	European larch	<i>Larix decidua</i>	EL	12	946.30
Scotland	Private sector	European larch	<i>Larix decidua</i>	EL	14	217.99
Scotland	Private sector	Japanese/hybrid larch	<i>Larix kaempferi</i> /L.	JL	2	379.63
Scotland	Private sector	Japanese/hybrid larch	<i>Larix kaempferi</i> /L.	JL	4	3 236.37
Scotland	Private sector	Japanese/hybrid larch	<i>Larix kaempferi</i> /L.	JL	6	5 654.76
Scotland	Private sector	Japanese/hybrid larch	<i>Larix kaempferi</i> /L.	JL	8	5 348.34
Scotland	Private sector	Japanese/hybrid larch	<i>Larix kaempferi</i> /L.	JL	10	7 554.32
Scotland	Private sector	Japanese/hybrid larch	<i>Larix kaempferi</i> /L.	JL	12	6 565.88
Scotland	Private sector	Japanese/hybrid larch	<i>Larix kaempferi</i> /L.	JL	14	6 626.05
Scotland	Private sector	Douglas fir	<i>Pseudotsuga menziesii</i>	DF	6	318.25
Scotland	Private sector	Douglas fir	<i>Pseudotsuga menziesii</i>	DF	8	1 581.28
Scotland	Private sector	Douglas fir	<i>Pseudotsuga menziesii</i>	DF	10	1 833.20
Scotland	Private sector	Douglas fir	<i>Pseudotsuga menziesii</i>	DF	12	3 058.41
Scotland	Private sector	Douglas fir	<i>Pseudotsuga menziesii</i>	DF	14	1 676.36
Scotland	Private sector	Douglas fir	<i>Pseudotsuga menziesii</i>	DF	16	727.46

Country	Ownership	CARBINE tree species			Yield class (m ³ ha ⁻¹ yr ⁻¹)	Area (ha)
		Common name	Latin name	Sp. code		
Scotland	Private sector	Douglas fir	<i>Pseudotsuga menziesii</i>	DF	18	765.36
Scotland	Private sector	Douglas fir	<i>Pseudotsuga menziesii</i>	DF	20	271.01
Scotland	Private sector	Douglas fir	<i>Pseudotsuga menziesii</i>	DF	22	731.70
Scotland	Private sector	Douglas fir	<i>Pseudotsuga menziesii</i>	DF	24	512.89
Scotland	Private sector	Douglas fir	<i>Pseudotsuga menziesii</i>	DF	26	4.32
Scotland	Private sector	Grand fir	<i>Abies grandis</i>	GF	6	2.49
Scotland	Private sector	Grand fir	<i>Abies grandis</i>	GF	8	31.37
Scotland	Private sector	Grand fir	<i>Abies grandis</i>	GF	10	39.77
Scotland	Private sector	Grand fir	<i>Abies grandis</i>	GF	12	153.18
Scotland	Private sector	Grand fir	<i>Abies grandis</i>	GF	14	68.74
Scotland	Private sector	Grand fir	<i>Abies grandis</i>	GF	16	33.27
Scotland	Private sector	Grand fir	<i>Abies grandis</i>	GF	18	38.73
Scotland	Private sector	Grand fir	<i>Abies grandis</i>	GF	20	34.43
Scotland	Private sector	Grand fir	<i>Abies grandis</i>	GF	22	157.28
Scotland	Private sector	Grand fir	<i>Abies grandis</i>	GF	24	45.33
Scotland	Private sector	Grand fir	<i>Abies grandis</i>	GF	26	26.45
Scotland	Private sector	Grand fir	<i>Abies grandis</i>	GF	28	35.64
Scotland	Private sector	Grand fir	<i>Abies grandis</i>	GF	30	19.90
Scotland	Private sector	Noble fir	<i>Abies procera</i>	NF	6	93.74
Scotland	Private sector	Noble fir	<i>Abies procera</i>	NF	8	333.77
Scotland	Private sector	Noble fir	<i>Abies procera</i>	NF	10	251.76
Scotland	Private sector	Noble fir	<i>Abies procera</i>	NF	12	373.00
Scotland	Private sector	Noble fir	<i>Abies procera</i>	NF	14	181.16

Country	Ownership	CARBINE tree species			Yield class (m ³ ha ⁻¹ yr ⁻¹)	Area (ha)
		Common name	Latin name	Sp. code		
Scotland	Private sector	Noble fir	<i>Abies procera</i>	NF	16	51.38
Scotland	Private sector	Noble fir	<i>Abies procera</i>	NF	18	37.92
Scotland	Private sector	Noble fir	<i>Abies procera</i>	NF	20	15.52
Scotland	Private sector	Noble fir	<i>Abies procera</i>	NF	22	193.20
Scotland	Private sector	Noble fir	<i>Abies procera</i>	NF	24	16.82
Scotland	Private sector	Noble fir	<i>Abies procera</i>	NF	26	0.49
Scotland	Private sector	Noble fir	<i>Abies procera</i>	NF	28	1.29
Scotland	Private sector	Western hemlock	<i>Tsuga heterophylla</i>	WH	6	99.68
Scotland	Private sector	Western hemlock	<i>Tsuga heterophylla</i>	WH	8	269.68
Scotland	Private sector	Western hemlock	<i>Tsuga heterophylla</i>	WH	10	110.30
Scotland	Private sector	Western hemlock	<i>Tsuga heterophylla</i>	WH	12	385.83
Scotland	Private sector	Western hemlock	<i>Tsuga heterophylla</i>	WH	14	147.55
Scotland	Private sector	Western hemlock	<i>Tsuga heterophylla</i>	WH	16	51.05
Scotland	Private sector	Western hemlock	<i>Tsuga heterophylla</i>	WH	18	93.30
Scotland	Private sector	Western hemlock	<i>Tsuga heterophylla</i>	WH	20	30.28
Scotland	Private sector	Western hemlock	<i>Tsuga heterophylla</i>	WH	22	108.87
Scotland	Private sector	Western hemlock	<i>Tsuga heterophylla</i>	WH	24	56.54
Scotland	Private sector	Western hemlock	<i>Tsuga heterophylla</i>	WH	26	12.00
Scotland	Private sector	Western red cedar	<i>Thuja plicata</i>	RC	6	44.57
Scotland	Private sector	Western red cedar	<i>Thuja plicata</i>	RC	8	128.72
Scotland	Private sector	Western red cedar	<i>Thuja plicata</i>	RC	10	33.10
Scotland	Private sector	Western red cedar	<i>Thuja plicata</i>	RC	12	82.74
Scotland	Private sector	Western red cedar	<i>Thuja plicata</i>	RC	14	25.74

Country	Ownership	CARBINE tree species			Yield class (m ³ ha ⁻¹ yr ⁻¹)	Area (ha)
		Common name	Latin name	Sp. code		
Scotland	Private sector	Western red cedar	<i>Thuja plicata</i>	RC	16	11.86
Scotland	Private sector	Western red cedar	<i>Thuja plicata</i>	RC	18	12.52
Scotland	Private sector	Western red cedar	<i>Thuja plicata</i>	RC	20	4.71
Scotland	Private sector	Western red cedar	<i>Thuja plicata</i>	RC	22	0.72
Scotland	Private sector	Western red cedar	<i>Thuja plicata</i>	RC	24	2.74
Scotland	Private sector	Oak	<i>Quercus spp.</i>	OK	2	6 127.39
Scotland	Private sector	Oak	<i>Quercus spp.</i>	OK	4	10 513.63
Scotland	Private sector	Oak	<i>Quercus spp.</i>	OK	6	5 234.35
Scotland	Private sector	Oak	<i>Quercus spp.</i>	OK	8	2 105.31
Scotland	Private sector	Ash	<i>Fraxinus excelsior</i>	AH	2	3 913.72
Scotland	Private sector	Ash	<i>Fraxinus excelsior</i>	AH	4	3 535.45
Scotland	Private sector	Ash	<i>Fraxinus excelsior</i>	AH	6	2 947.32
Scotland	Private sector	Ash	<i>Fraxinus excelsior</i>	AH	8	1 745.78
Scotland	Private sector	Ash	<i>Fraxinus excelsior</i>	AH	10	1 248.16
Scotland	Private sector	Ash	<i>Fraxinus excelsior</i>	AH	12	1 599.88
Scotland	Private sector	Beech	<i>Fagus sylvatica</i>	BE	4	3 718.87
Scotland	Private sector	Beech	<i>Fagus sylvatica</i>	BE	6	5 165.25
Scotland	Private sector	Beech	<i>Fagus sylvatica</i>	BE	8	2 910.94
Scotland	Private sector	Beech	<i>Fagus sylvatica</i>	BE	10	2 650.74
Scotland	Private sector	Birch	<i>Betula spp.</i>	BI	2	75 883.42
Scotland	Private sector	Birch	<i>Betula spp.</i>	BI	4	28 903.61
Scotland	Private sector	Birch	<i>Betula spp.</i>	BI	6	14 173.61
Scotland	Private sector	Birch	<i>Betula spp.</i>	BI	8	5 830.86

Country	Ownership	CARBINE tree species			Yield class (m ³ ha ⁻¹ yr ⁻¹)	Area (ha)
		Common name	Latin name	Sp. code		
Scotland	Private sector	Birch	Betula spp.	BI	10	3 785.42
Scotland	Private sector	Birch	Betula spp.	BI	12	1 767.41
Scotland	Private sector	Sycamore	Acer pseudoplatanus	SY	2	62 263.33
Scotland	Private sector	Sycamore	Acer pseudoplatanus	SY	4	2 843.39
Scotland	Private sector	Sycamore	Acer pseudoplatanus	SY	6	4 301.90
Scotland	Private sector	Sycamore	Acer pseudoplatanus	SY	8	3 101.46
Scotland	Private sector	Sycamore	Acer pseudoplatanus	SY	10	2 530.31
Scotland	Private sector	Sycamore	Acer pseudoplatanus	SY	12	2 854.86
Scotland	Private sector	Poplar	Populus. spp.	PO	2	27 290.51
Scotland	Private sector	Poplar	Populus. spp.	PO	4	13 713.80
Scotland	Private sector	Poplar	Populus. spp.	PO	6	6 212.08
Scotland	Private sector	Poplar	Populus. spp.	PO	8	3 260.91
Scotland	Private sector	Poplar	Populus. spp.	PO	10	416.91
Scotland	Private sector	Poplar	Populus. spp.	PO	12	132.09
Scotland	Private sector	Nothofagus	Nothofagus spp.	NO	2	912.47
Scotland	Private sector	Nothofagus	Nothofagus spp.	NO	4	1 275.71
Scotland	Private sector	Nothofagus	Nothofagus spp.	NO	6	601.80
Scotland	Private sector	Nothofagus	Nothofagus spp.	NO	8	392.13
Scotland	Private sector	Nothofagus	Nothofagus spp.	NO	10	1 769.68
Scotland	Private sector	Nothofagus	Nothofagus spp.	NO	12	803.11
Wales	Public forest estate	Norway spruce	Picea abies	NS	2	133.93
Wales	Public forest estate	Norway spruce	Picea abies	NS	4	67.48
Wales	Public forest estate	Norway spruce	Picea abies	NS	6	135.64

Country	Ownership	CARBINE tree species			Yield class (m ³ ha ⁻¹ yr ⁻¹)	Area (ha)
		Common name	Latin name	Sp. code		
Wales	Public forest estate	Norway spruce	<i>Picea abies</i>	NS	8	329.07
Wales	Public forest estate	Norway spruce	<i>Picea abies</i>	NS	10	1 019.69
Wales	Public forest estate	Norway spruce	<i>Picea abies</i>	NS	12	1 809.34
Wales	Public forest estate	Norway spruce	<i>Picea abies</i>	NS	14	1 284.62
Wales	Public forest estate	Norway spruce	<i>Picea abies</i>	NS	16	993.77
Wales	Public forest estate	Norway spruce	<i>Picea abies</i>	NS	18	562.92
Wales	Public forest estate	Norway spruce	<i>Picea abies</i>	NS	20	289.78
Wales	Public forest estate	Norway spruce	<i>Picea abies</i>	NS	22	221.48
Wales	Public forest estate	Norway spruce	<i>Picea abies</i>	NS	24	6.55
Wales	Public forest estate	Sitka spruce	<i>Picea sitchensis</i>	SS	2	524.14
Wales	Public forest estate	Sitka spruce	<i>Picea sitchensis</i>	SS	4	450.96
Wales	Public forest estate	Sitka spruce	<i>Picea sitchensis</i>	SS	6	678.23
Wales	Public forest estate	Sitka spruce	<i>Picea sitchensis</i>	SS	8	1 435.85
Wales	Public forest estate	Sitka spruce	<i>Picea sitchensis</i>	SS	10	3 423.47
Wales	Public forest estate	Sitka spruce	<i>Picea sitchensis</i>	SS	12	12 422.70
Wales	Public forest estate	Sitka spruce	<i>Picea sitchensis</i>	SS	14	11 394.00
Wales	Public forest estate	Sitka spruce	<i>Picea sitchensis</i>	SS	16	8 286.62
Wales	Public forest estate	Sitka spruce	<i>Picea sitchensis</i>	SS	18	4 852.20
Wales	Public forest estate	Sitka spruce	<i>Picea sitchensis</i>	SS	20	2 614.64
Wales	Public forest estate	Sitka spruce	<i>Picea sitchensis</i>	SS	22	1 709.29
Wales	Public forest estate	Sitka spruce	<i>Picea sitchensis</i>	SS	24	2 013.92
Wales	Public forest estate	Sitka spruce	<i>Picea sitchensis</i>	SS	26	3.31
Wales	Public forest estate	Scots pine	<i>Pinus sylvestris</i>	SP	2	11.04

Country	Ownership	CARBINE tree species			Yield class (m ³ ha ⁻¹ yr ⁻¹)	Area (ha)
		Common name	Latin name	Sp. code		
Wales	Public forest estate	Scots pine	<i>Pinus sylvestris</i>	SP	4	68.82
Wales	Public forest estate	Scots pine	<i>Pinus sylvestris</i>	SP	6	204.82
Wales	Public forest estate	Scots pine	<i>Pinus sylvestris</i>	SP	8	555.05
Wales	Public forest estate	Scots pine	<i>Pinus sylvestris</i>	SP	10	943.95
Wales	Public forest estate	Scots pine	<i>Pinus sylvestris</i>	SP	12	371.15
Wales	Public forest estate	Scots pine	<i>Pinus sylvestris</i>	SP	14	145.55
Wales	Public forest estate	Scots pine	<i>Pinus sylvestris</i>	SP	16	52.14
Wales	Public forest estate	Scots pine	<i>Pinus sylvestris</i>	SP	20	0.66
Wales	Public forest estate	Corsican pine	<i>Pinus nigra</i> ssp. <i>laricio</i>	CP	2	18.07
Wales	Public forest estate	Corsican pine	<i>Pinus nigra</i> ssp. <i>laricio</i>	CP	4	9.40
Wales	Public forest estate	Corsican pine	<i>Pinus nigra</i> ssp. <i>laricio</i>	CP	6	79.13
Wales	Public forest estate	Corsican pine	<i>Pinus nigra</i> ssp. <i>laricio</i>	CP	8	158.80
Wales	Public forest estate	Corsican pine	<i>Pinus nigra</i> ssp. <i>laricio</i>	CP	10	394.71
Wales	Public forest estate	Corsican pine	<i>Pinus nigra</i> ssp. <i>laricio</i>	CP	12	505.68
Wales	Public forest estate	Corsican pine	<i>Pinus nigra</i> ssp. <i>laricio</i>	CP	14	263.30
Wales	Public forest estate	Corsican pine	<i>Pinus nigra</i> ssp. <i>laricio</i>	CP	16	214.41
Wales	Public forest estate	Corsican pine	<i>Pinus nigra</i> ssp. <i>laricio</i>	CP	18	31.06
Wales	Public forest estate	Corsican pine	<i>Pinus nigra</i> ssp. <i>laricio</i>	CP	20	21.33
Wales	Public forest estate	Corsican pine	<i>Pinus nigra</i> ssp. <i>laricio</i>	CP	22	0.27
Wales	Public forest estate	Lodgepole pine	<i>Pinus contorta</i>	LP	2	104.02
Wales	Public forest estate	Lodgepole pine	<i>Pinus contorta</i>	LP	4	284.55
Wales	Public forest estate	Lodgepole pine	<i>Pinus contorta</i>	LP	6	655.52
Wales	Public forest estate	Lodgepole pine	<i>Pinus contorta</i>	LP	8	795.64

Country	Ownership	CARBINE tree species			Yield class (m ³ ha ⁻¹ yr ⁻¹)	Area (ha)
		Common name	Latin name	Sp. code		
Wales	Public forest estate	Lodgepole pine	<i>Pinus contorta</i>	LP	10	373.04
Wales	Public forest estate	Lodgepole pine	<i>Pinus contorta</i>	LP	12	147.38
Wales	Public forest estate	Lodgepole pine	<i>Pinus contorta</i>	LP	14	55.02
Wales	Public forest estate	Lodgepole pine	<i>Pinus contorta</i>	LP	16	8.92
Wales	Public forest estate	Lodgepole pine	<i>Pinus contorta</i>	LP	20	3.53
Wales	Public forest estate	European larch	<i>Larix decidua</i>	EL	2	1.89
Wales	Public forest estate	European larch	<i>Larix decidua</i>	EL	4	13.07
Wales	Public forest estate	European larch	<i>Larix decidua</i>	EL	6	30.26
Wales	Public forest estate	European larch	<i>Larix decidua</i>	EL	8	65.70
Wales	Public forest estate	European larch	<i>Larix decidua</i>	EL	10	33.94
Wales	Public forest estate	European larch	<i>Larix decidua</i>	EL	12	30.46
Wales	Public forest estate	European larch	<i>Larix decidua</i>	EL	14	2.61
Wales	Public forest estate	European larch	<i>Larix decidua</i>	EL	16	1.95
Wales	Public forest estate	Japanese/hybrid larch	<i>Larix kaempferi</i> /L.	JL	2	23.83
Wales	Public forest estate	Japanese/hybrid larch	<i>Larix kaempferi</i> /L.	JL	4	76.74
Wales	Public forest estate	Japanese/hybrid larch	<i>Larix kaempferi</i> /L.	JL	6	218.34
Wales	Public forest estate	Japanese/hybrid larch	<i>Larix kaempferi</i> /L.	JL	8	924.85
Wales	Public forest estate	Japanese/hybrid larch	<i>Larix kaempferi</i> /L.	JL	10	2 841.96
Wales	Public forest estate	Japanese/hybrid larch	<i>Larix kaempferi</i> /L.	JL	12	2 980.25
Wales	Public forest estate	Japanese/hybrid larch	<i>Larix kaempferi</i> /L.	JL	14	2 605.95
Wales	Public forest estate	Japanese/hybrid larch	<i>Larix kaempferi</i> /L.	JL	16	180.63
Wales	Public forest estate	Japanese/hybrid larch	<i>Larix kaempferi</i> /L.	JL	24	0.21
Wales	Public forest estate	Douglas fir	<i>Pseudotsuga menziesii</i>	DF	2	3.18

Country	Ownership	CARBINE tree species			Yield class (m ³ ha ⁻¹ yr ⁻¹)	Area (ha)
		Common name	Latin name	Sp. code		
Wales	Public forest estate	Douglas fir	<i>Pseudotsuga menziesii</i>	DF	4	1.61
Wales	Public forest estate	Douglas fir	<i>Pseudotsuga menziesii</i>	DF	6	6.59
Wales	Public forest estate	Douglas fir	<i>Pseudotsuga menziesii</i>	DF	8	34.44
Wales	Public forest estate	Douglas fir	<i>Pseudotsuga menziesii</i>	DF	10	219.71
Wales	Public forest estate	Douglas fir	<i>Pseudotsuga menziesii</i>	DF	12	1 004.71
Wales	Public forest estate	Douglas fir	<i>Pseudotsuga menziesii</i>	DF	14	1 036.89
Wales	Public forest estate	Douglas fir	<i>Pseudotsuga menziesii</i>	DF	16	1 592.31
Wales	Public forest estate	Douglas fir	<i>Pseudotsuga menziesii</i>	DF	18	818.95
Wales	Public forest estate	Douglas fir	<i>Pseudotsuga menziesii</i>	DF	20	368.92
Wales	Public forest estate	Douglas fir	<i>Pseudotsuga menziesii</i>	DF	22	242.93
Wales	Public forest estate	Douglas fir	<i>Pseudotsuga menziesii</i>	DF	24	259.46
Wales	Public forest estate	Grand fir	<i>Abies grandis</i>	GF	2	4.72
Wales	Public forest estate	Grand fir	<i>Abies grandis</i>	GF	4	3.93
Wales	Public forest estate	Grand fir	<i>Abies grandis</i>	GF	10	7.16
Wales	Public forest estate	Grand fir	<i>Abies grandis</i>	GF	12	17.70
Wales	Public forest estate	Grand fir	<i>Abies grandis</i>	GF	14	28.43
Wales	Public forest estate	Grand fir	<i>Abies grandis</i>	GF	16	80.79
Wales	Public forest estate	Grand fir	<i>Abies grandis</i>	GF	18	35.04
Wales	Public forest estate	Grand fir	<i>Abies grandis</i>	GF	20	88.38
Wales	Public forest estate	Grand fir	<i>Abies grandis</i>	GF	22	29.99
Wales	Public forest estate	Grand fir	<i>Abies grandis</i>	GF	24	45.34
Wales	Public forest estate	Grand fir	<i>Abies grandis</i>	GF	26	29.40
Wales	Public forest estate	Grand fir	<i>Abies grandis</i>	GF	28	30.86

Country	Ownership	CARBINE tree species			Yield class (m ³ ha ⁻¹ yr ⁻¹)	Area (ha)
		Common name	Latin name	Sp. code		
Wales	Public forest estate	Grand fir	<i>Abies grandis</i>	GF	30	18.04
Wales	Public forest estate	Noble fir	<i>Abies procera</i>	NF	2	1.55
Wales	Public forest estate	Noble fir	<i>Abies procera</i>	NF	4	5.80
Wales	Public forest estate	Noble fir	<i>Abies procera</i>	NF	6	19.73
Wales	Public forest estate	Noble fir	<i>Abies procera</i>	NF	8	6.18
Wales	Public forest estate	Noble fir	<i>Abies procera</i>	NF	10	48.46
Wales	Public forest estate	Noble fir	<i>Abies procera</i>	NF	12	88.46
Wales	Public forest estate	Noble fir	<i>Abies procera</i>	NF	14	81.49
Wales	Public forest estate	Noble fir	<i>Abies procera</i>	NF	16	78.62
Wales	Public forest estate	Noble fir	<i>Abies procera</i>	NF	18	34.20
Wales	Public forest estate	Noble fir	<i>Abies procera</i>	NF	20	23.31
Wales	Public forest estate	Noble fir	<i>Abies procera</i>	NF	22	32.39
Wales	Public forest estate	Noble fir	<i>Abies procera</i>	NF	24	0.71
Wales	Public forest estate	Western hemlock	<i>Tsuga heterophylla</i>	WH	2	5.26
Wales	Public forest estate	Western hemlock	<i>Tsuga heterophylla</i>	WH	4	1.91
Wales	Public forest estate	Western hemlock	<i>Tsuga heterophylla</i>	WH	6	6.61
Wales	Public forest estate	Western hemlock	<i>Tsuga heterophylla</i>	WH	8	4.06
Wales	Public forest estate	Western hemlock	<i>Tsuga heterophylla</i>	WH	10	12.44
Wales	Public forest estate	Western hemlock	<i>Tsuga heterophylla</i>	WH	12	50.68
Wales	Public forest estate	Western hemlock	<i>Tsuga heterophylla</i>	WH	14	100.10
Wales	Public forest estate	Western hemlock	<i>Tsuga heterophylla</i>	WH	16	141.55
Wales	Public forest estate	Western hemlock	<i>Tsuga heterophylla</i>	WH	18	166.79
Wales	Public forest estate	Western hemlock	<i>Tsuga heterophylla</i>	WH	20	109.76

Country	Ownership	CARBINE tree species			Yield class (m ³ ha ⁻¹ yr ⁻¹)	Area (ha)
		Common name	Latin name	Sp. code		
Wales	Public forest estate	Western hemlock	<i>Tsuga heterophylla</i>	WH	22	73.80
Wales	Public forest estate	Western hemlock	<i>Tsuga heterophylla</i>	WH	24	82.36
Wales	Public forest estate	Western hemlock	<i>Tsuga heterophylla</i>	WH	26	0.21
Wales	Public forest estate	Western red cedar	<i>Thuja plicata</i>	RC	2	12.18
Wales	Public forest estate	Western red cedar	<i>Thuja plicata</i>	RC	4	2.46
Wales	Public forest estate	Western red cedar	<i>Thuja plicata</i>	RC	6	12.51
Wales	Public forest estate	Western red cedar	<i>Thuja plicata</i>	RC	8	10.13
Wales	Public forest estate	Western red cedar	<i>Thuja plicata</i>	RC	10	60.05
Wales	Public forest estate	Western red cedar	<i>Thuja plicata</i>	RC	12	75.86
Wales	Public forest estate	Western red cedar	<i>Thuja plicata</i>	RC	14	60.13
Wales	Public forest estate	Western red cedar	<i>Thuja plicata</i>	RC	16	81.04
Wales	Public forest estate	Western red cedar	<i>Thuja plicata</i>	RC	18	44.22
Wales	Public forest estate	Western red cedar	<i>Thuja plicata</i>	RC	20	32.96
Wales	Public forest estate	Western red cedar	<i>Thuja plicata</i>	RC	22	17.95
Wales	Public forest estate	Western red cedar	<i>Thuja plicata</i>	RC	24	7.99
Wales	Public forest estate	Oak	<i>Quercus spp.</i>	OK	2	433.40
Wales	Public forest estate	Oak	<i>Quercus spp.</i>	OK	4	898.20
Wales	Public forest estate	Oak	<i>Quercus spp.</i>	OK	6	739.08
Wales	Public forest estate	Oak	<i>Quercus spp.</i>	OK	8	383.23
Wales	Public forest estate	Oak	<i>Quercus spp.</i>	OK	10	81.12
Wales	Public forest estate	Oak	<i>Quercus spp.</i>	OK	12	5.63
Wales	Public forest estate	Oak	<i>Quercus spp.</i>	OK	14	4.46
Wales	Public forest estate	Oak	<i>Quercus spp.</i>	OK	16	0.28

Country	Ownership	CARBINE tree species			Yield class (m ³ ha ⁻¹ yr ⁻¹)	Area (ha)
		Common name	Latin name	Sp. code		
Wales	Public forest estate	Oak	Quercus spp.	OK	20	0.63
Wales	Public forest estate	Ash	Fraxinus excelsior	AH	2	46.69
Wales	Public forest estate	Ash	Fraxinus excelsior	AH	4	164.06
Wales	Public forest estate	Ash	Fraxinus excelsior	AH	6	100.68
Wales	Public forest estate	Ash	Fraxinus excelsior	AH	8	71.68
Wales	Public forest estate	Ash	Fraxinus excelsior	AH	10	24.57
Wales	Public forest estate	Ash	Fraxinus excelsior	AH	12	4.49
Wales	Public forest estate	Ash	Fraxinus excelsior	AH	14	0.11
Wales	Public forest estate	Ash	Fraxinus excelsior	AH	18	2.87
Wales	Public forest estate	Ash	Fraxinus excelsior	AH	20	2.01
Wales	Public forest estate	Beech	Fagus sylvatica	BE	2	105.86
Wales	Public forest estate	Beech	Fagus sylvatica	BE	4	264.90
Wales	Public forest estate	Beech	Fagus sylvatica	BE	6	510.31
Wales	Public forest estate	Beech	Fagus sylvatica	BE	8	529.97
Wales	Public forest estate	Beech	Fagus sylvatica	BE	10	64.37
Wales	Public forest estate	Beech	Fagus sylvatica	BE	12	0.45
Wales	Public forest estate	Beech	Fagus sylvatica	BE	16	0.87
Wales	Public forest estate	Birch	Betula spp.	BI	2	685.34
Wales	Public forest estate	Birch	Betula spp.	BI	4	684.16
Wales	Public forest estate	Birch	Betula spp.	BI	6	214.18
Wales	Public forest estate	Birch	Betula spp.	BI	8	150.44
Wales	Public forest estate	Birch	Betula spp.	BI	10	7.69
Wales	Public forest estate	Birch	Betula spp.	BI	12	16.85

Country	Ownership	CARBINE tree species			Yield class (m ³ ha ⁻¹ yr ⁻¹)	Area (ha)
		Common name	Latin name	Sp. code		
Wales	Public forest estate	Birch	Betula spp.	BI	14	0.55
Wales	Public forest estate	Birch	Betula spp.	BI	16	3.89
Wales	Public forest estate	Birch	Betula spp.	BI	18	2.56
Wales	Public forest estate	Birch	Betula spp.	BI	20	0.82
Wales	Public forest estate	Sycamore	Acer pseudoplatanus	SY	2	2 258.57
Wales	Public forest estate	Sycamore	Acer pseudoplatanus	SY	4	2 948.63
Wales	Public forest estate	Sycamore	Acer pseudoplatanus	SY	6	680.92
Wales	Public forest estate	Sycamore	Acer pseudoplatanus	SY	8	857.25
Wales	Public forest estate	Sycamore	Acer pseudoplatanus	SY	10	372.88
Wales	Public forest estate	Sycamore	Acer pseudoplatanus	SY	12	118.58
Wales	Public forest estate	Sycamore	Acer pseudoplatanus	SY	14	28.35
Wales	Public forest estate	Sycamore	Acer pseudoplatanus	SY	16	1.97
Wales	Public forest estate	Sycamore	Acer pseudoplatanus	SY	18	7.67
Wales	Public forest estate	Sycamore	Acer pseudoplatanus	SY	20	0.10
Wales	Public forest estate	Sycamore	Acer pseudoplatanus	SY	24	0.57
Wales	Public forest estate	Poplar	Populus. spp.	PO	2	4.00
Wales	Public forest estate	Poplar	Populus. spp.	PO	4	20.33
Wales	Public forest estate	Poplar	Populus. spp.	PO	6	8.30
Wales	Public forest estate	Poplar	Populus. spp.	PO	8	4.37
Wales	Public forest estate	Poplar	Populus. spp.	PO	10	8.59
Wales	Public forest estate	Poplar	Populus. spp.	PO	12	0.96
Wales	Public forest estate	Poplar	Populus. spp.	PO	14	0.24
Wales	Public forest estate	Nothofagus	Nothofagus spp.	NO	4	1.99

Country	Ownership	CARBINE tree species			Yield class (m ³ ha ⁻¹ yr ⁻¹)	Area (ha)
		Common name	Latin name	Sp. code		
Wales	Public forest estate	Nothofagus	Nothofagus spp.	NO	6	7.26
Wales	Public forest estate	Nothofagus	Nothofagus spp.	NO	8	7.08
Wales	Public forest estate	Nothofagus	Nothofagus spp.	NO	10	9.43
Wales	Public forest estate	Nothofagus	Nothofagus spp.	NO	12	5.11
Wales	Public forest estate	Nothofagus	Nothofagus spp.	NO	14	3.97
Wales	Public forest estate	Nothofagus	Nothofagus spp.	NO	16	1.18
Wales	Public forest estate	Nothofagus	Nothofagus spp.	NO	18	2.96
Wales	Private sector	Norway spruce	Picea abies	NS	4	80.05
Wales	Private sector	Norway spruce	Picea abies	NS	6	108.24
Wales	Private sector	Norway spruce	Picea abies	NS	8	291.97
Wales	Private sector	Norway spruce	Picea abies	NS	10	231.44
Wales	Private sector	Norway spruce	Picea abies	NS	12	403.52
Wales	Private sector	Norway spruce	Picea abies	NS	14	564.04
Wales	Private sector	Norway spruce	Picea abies	NS	16	160.35
Wales	Private sector	Norway spruce	Picea abies	NS	18	119.82
Wales	Private sector	Norway spruce	Picea abies	NS	20	115.68
Wales	Private sector	Norway spruce	Picea abies	NS	22	690.81
Wales	Private sector	Norway spruce	Picea abies	NS	24	19.37
Wales	Private sector	Sitka spruce	Picea sitchensis	SS	6	2 556.44
Wales	Private sector	Sitka spruce	Picea sitchensis	SS	8	2 032.35
Wales	Private sector	Sitka spruce	Picea sitchensis	SS	10	3 023.12
Wales	Private sector	Sitka spruce	Picea sitchensis	SS	12	3 622.04
Wales	Private sector	Sitka spruce	Picea sitchensis	SS	14	3 635.53

Country	Ownership	CARBINE tree species			Yield class (m ³ ha ⁻¹ yr ⁻¹)	Area (ha)
		Common name	Latin name	Sp. code		
Wales	Private sector	Sitka spruce	<i>Picea sitchensis</i>	SS	16	2 724.69
Wales	Private sector	Sitka spruce	<i>Picea sitchensis</i>	SS	18	1 979.39
Wales	Private sector	Sitka spruce	<i>Picea sitchensis</i>	SS	20	3 437.27
Wales	Private sector	Sitka spruce	<i>Picea sitchensis</i>	SS	22	1 636.60
Wales	Private sector	Sitka spruce	<i>Picea sitchensis</i>	SS	24	2 994.86
Wales	Private sector	Sitka spruce	<i>Picea sitchensis</i>	SS	26	4.95
Wales	Private sector	Scots pine	<i>Pinus sylvestris</i>	SP	4	6 551.46
Wales	Private sector	Scots pine	<i>Pinus sylvestris</i>	SP	6	156.69
Wales	Private sector	Scots pine	<i>Pinus sylvestris</i>	SP	8	498.27
Wales	Private sector	Scots pine	<i>Pinus sylvestris</i>	SP	10	196.23
Wales	Private sector	Scots pine	<i>Pinus sylvestris</i>	SP	12	98.42
Wales	Private sector	Scots pine	<i>Pinus sylvestris</i>	SP	14	64.13
Wales	Private sector	Scots pine	<i>Pinus sylvestris</i>	SP	16	6.18
Wales	Private sector	Scots pine	<i>Pinus sylvestris</i>	SP	20	0.27
Wales	Private sector	Corsican pine	<i>Pinus nigra</i> ssp. <i>laricio</i>	CP	4	13.29
Wales	Private sector	Corsican pine	<i>Pinus nigra</i> ssp. <i>laricio</i>	CP	6	66.79
Wales	Private sector	Corsican pine	<i>Pinus nigra</i> ssp. <i>laricio</i>	CP	8	161.90
Wales	Private sector	Corsican pine	<i>Pinus nigra</i> ssp. <i>laricio</i>	CP	10	110.19
Wales	Private sector	Corsican pine	<i>Pinus nigra</i> ssp. <i>laricio</i>	CP	12	173.30
Wales	Private sector	Corsican pine	<i>Pinus nigra</i> ssp. <i>laricio</i>	CP	14	152.93
Wales	Private sector	Corsican pine	<i>Pinus nigra</i> ssp. <i>laricio</i>	CP	16	44.29
Wales	Private sector	Corsican pine	<i>Pinus nigra</i> ssp. <i>laricio</i>	CP	18	7.14
Wales	Private sector	Corsican pine	<i>Pinus nigra</i> ssp. <i>laricio</i>	CP	20	9.10

Country	Ownership	CARBINE tree species			Yield class (m ³ ha ⁻¹ yr ⁻¹)	Area (ha)
		Common name	Latin name	Sp. code		
Wales	Private sector	Corsican pine	<i>Pinus nigra</i> ssp. <i>laricio</i>	CP	22	0.88
Wales	Private sector	Lodgepole pine	<i>Pinus contorta</i>	LP	4	377.08
Wales	Private sector	Lodgepole pine	<i>Pinus contorta</i>	LP	6	500.86
Wales	Private sector	Lodgepole pine	<i>Pinus contorta</i>	LP	8	732.25
Wales	Private sector	Lodgepole pine	<i>Pinus contorta</i>	LP	10	94.77
Wales	Private sector	Lodgepole pine	<i>Pinus contorta</i>	LP	12	43.24
Wales	Private sector	Lodgepole pine	<i>Pinus contorta</i>	LP	14	28.89
Wales	Private sector	Lodgepole pine	<i>Pinus contorta</i>	LP	16	1.68
Wales	Private sector	Lodgepole pine	<i>Pinus contorta</i>	LP	20	1.37
Wales	Private sector	European larch	<i>Larix decidua</i>	EL	4	64.81
Wales	Private sector	European larch	<i>Larix decidua</i>	EL	6	142.42
Wales	Private sector	European larch	<i>Larix decidua</i>	EL	8	50.95
Wales	Private sector	European larch	<i>Larix decidua</i>	EL	10	12.80
Wales	Private sector	European larch	<i>Larix decidua</i>	EL	12	12.37
Wales	Private sector	European larch	<i>Larix decidua</i>	EL	14	2.97
Wales	Private sector	Japanese/hybrid larch	<i>Larix kaempferi</i> /L.	JL	4	377.55
Wales	Private sector	Japanese/hybrid larch	<i>Larix kaempferi</i> /L.	JL	6	1 063.57
Wales	Private sector	Japanese/hybrid larch	<i>Larix kaempferi</i> /L.	JL	8	779.37
Wales	Private sector	Japanese/hybrid larch	<i>Larix kaempferi</i> /L.	JL	10	1 017.45
Wales	Private sector	Japanese/hybrid larch	<i>Larix kaempferi</i> /L.	JL	12	1 157.76
Wales	Private sector	Japanese/hybrid larch	<i>Larix kaempferi</i> /L.	JL	14	2 865.73
Wales	Private sector	Douglas fir	<i>Pseudotsuga menziesii</i>	DF	4	2.23
Wales	Private sector	Douglas fir	<i>Pseudotsuga menziesii</i>	DF	6	3.41

Country	Ownership	CARBINE tree species			Yield class (m ³ ha ⁻¹ yr ⁻¹)	Area (ha)
		Common name	Latin name	Sp. code		
Wales	Private sector	Douglas fir	<i>Pseudotsuga menziesii</i>	DF	8	23.60
Wales	Private sector	Douglas fir	<i>Pseudotsuga menziesii</i>	DF	10	44.04
Wales	Private sector	Douglas fir	<i>Pseudotsuga menziesii</i>	DF	12	230.91
Wales	Private sector	Douglas fir	<i>Pseudotsuga menziesii</i>	DF	14	479.15
Wales	Private sector	Douglas fir	<i>Pseudotsuga menziesii</i>	DF	16	246.29
Wales	Private sector	Douglas fir	<i>Pseudotsuga menziesii</i>	DF	18	167.11
Wales	Private sector	Douglas fir	<i>Pseudotsuga menziesii</i>	DF	20	147.93
Wales	Private sector	Douglas fir	<i>Pseudotsuga menziesii</i>	DF	22	750.88
Wales	Private sector	Douglas fir	<i>Pseudotsuga menziesii</i>	DF	24	764.13
Wales	Private sector	Grand fir	<i>Abies grandis</i>	GF	4	5.08
Wales	Private sector	Grand fir	<i>Abies grandis</i>	GF	10	1.81
Wales	Private sector	Grand fir	<i>Abies grandis</i>	GF	12	4.39
Wales	Private sector	Grand fir	<i>Abies grandis</i>	GF	14	13.82
Wales	Private sector	Grand fir	<i>Abies grandis</i>	GF	16	12.81
Wales	Private sector	Grand fir	<i>Abies grandis</i>	GF	18	5.88
Wales	Private sector	Grand fir	<i>Abies grandis</i>	GF	20	32.78
Wales	Private sector	Grand fir	<i>Abies grandis</i>	GF	22	86.92
Wales	Private sector	Grand fir	<i>Abies grandis</i>	GF	24	124.58
Wales	Private sector	Grand fir	<i>Abies grandis</i>	GF	26	80.76
Wales	Private sector	Grand fir	<i>Abies grandis</i>	GF	28	84.78
Wales	Private sector	Grand fir	<i>Abies grandis</i>	GF	30	49.58
Wales	Private sector	Noble fir	<i>Abies procera</i>	NF	4	7.62
Wales	Private sector	Noble fir	<i>Abies procera</i>	NF	6	15.70

Country	Ownership	CARBINE tree species			Yield class (m ³ ha ⁻¹ yr ⁻¹)	Area (ha)
		Common name	Latin name	Sp. code		
Wales	Private sector	Noble fir	<i>Abies procera</i>	NF	8	5.77
Wales	Private sector	Noble fir	<i>Abies procera</i>	NF	10	8.92
Wales	Private sector	Noble fir	<i>Abies procera</i>	NF	12	18.71
Wales	Private sector	Noble fir	<i>Abies procera</i>	NF	14	38.88
Wales	Private sector	Noble fir	<i>Abies procera</i>	NF	16	12.00
Wales	Private sector	Noble fir	<i>Abies procera</i>	NF	18	7.39
Wales	Private sector	Noble fir	<i>Abies procera</i>	NF	20	9.35
Wales	Private sector	Noble fir	<i>Abies procera</i>	NF	22	99.92
Wales	Private sector	Noble fir	<i>Abies procera</i>	NF	24	2.08
Wales	Private sector	Western hemlock	<i>Tsuga heterophylla</i>	WH	4	2.52
Wales	Private sector	Western hemlock	<i>Tsuga heterophylla</i>	WH	6	4.40
Wales	Private sector	Western hemlock	<i>Tsuga heterophylla</i>	WH	8	3.39
Wales	Private sector	Western hemlock	<i>Tsuga heterophylla</i>	WH	10	3.20
Wales	Private sector	Western hemlock	<i>Tsuga heterophylla</i>	WH	12	15.13
Wales	Private sector	Western hemlock	<i>Tsuga heterophylla</i>	WH	14	47.56
Wales	Private sector	Western hemlock	<i>Tsuga heterophylla</i>	WH	16	25.96
Wales	Private sector	Western hemlock	<i>Tsuga heterophylla</i>	WH	18	34.48
Wales	Private sector	Western hemlock	<i>Tsuga heterophylla</i>	WH	20	42.16
Wales	Private sector	Western hemlock	<i>Tsuga heterophylla</i>	WH	22	218.02
Wales	Private sector	Western hemlock	<i>Tsuga heterophylla</i>	WH	24	230.67
Wales	Private sector	Western hemlock	<i>Tsuga heterophylla</i>	WH	26	0.58
Wales	Private sector	Western red cedar	<i>Thuja plicata</i>	RC	4	3.35
Wales	Private sector	Western red cedar	<i>Thuja plicata</i>	RC	6	4.27

Country	Ownership	CARBINE tree species			Yield class (m ³ ha ⁻¹ yr ⁻¹)	Area (ha)
		Common name	Latin name	Sp. code		
Wales	Private sector	Western red cedar	<i>Thuja plicata</i>	RC	8	6.97
Wales	Private sector	Western red cedar	<i>Thuja plicata</i>	RC	10	7.69
Wales	Private sector	Western red cedar	<i>Thuja plicata</i>	RC	12	19.05
Wales	Private sector	Western red cedar	<i>Thuja plicata</i>	RC	14	30.71
Wales	Private sector	Western red cedar	<i>Thuja plicata</i>	RC	16	12.67
Wales	Private sector	Western red cedar	<i>Thuja plicata</i>	RC	18	8.24
Wales	Private sector	Western red cedar	<i>Thuja plicata</i>	RC	20	13.09
Wales	Private sector	Western red cedar	<i>Thuja plicata</i>	RC	22	54.84
Wales	Private sector	Western red cedar	<i>Thuja plicata</i>	RC	24	23.13
Wales	Private sector	Oak	<i>Quercus spp.</i>	OK	2	7 725.51
Wales	Private sector	Oak	<i>Quercus spp.</i>	OK	4	6 809.22
Wales	Private sector	Oak	<i>Quercus spp.</i>	OK	6	3 915.47
Wales	Private sector	Oak	<i>Quercus spp.</i>	OK	8	3 948.47
Wales	Private sector	Ash	<i>Fraxinus excelsior</i>	AH	2	3 134.62
Wales	Private sector	Ash	<i>Fraxinus excelsior</i>	AH	4	3 066.42
Wales	Private sector	Ash	<i>Fraxinus excelsior</i>	AH	6	4 030.93
Wales	Private sector	Ash	<i>Fraxinus excelsior</i>	AH	8	1 889.59
Wales	Private sector	Ash	<i>Fraxinus excelsior</i>	AH	10	1 405.14
Wales	Private sector	Ash	<i>Fraxinus excelsior</i>	AH	12	3 660.59
Wales	Private sector	Beech	<i>Fagus sylvatica</i>	BE	2	23 664.19
Wales	Private sector	Beech	<i>Fagus sylvatica</i>	BE	4	8 409.55
Wales	Private sector	Beech	<i>Fagus sylvatica</i>	BE	6	6 153.29
Wales	Private sector	Beech	<i>Fagus sylvatica</i>	BE	8	4 924.78

Country	Ownership	CARBINE tree species			Yield class (m ³ ha ⁻¹ yr ⁻¹)	Area (ha)
		Common name	Latin name	Sp. code		
Wales	Private sector	Beech	<i>Fagus sylvatica</i>	BE	10	1 623.53
Wales	Private sector	Beech	<i>Fagus sylvatica</i>	BE	12	34.19
Wales	Private sector	Birch	<i>Betula spp.</i>	BI	2	2 175.24
Wales	Private sector	Birch	<i>Betula spp.</i>	BI	4	1 273.41
Wales	Private sector	Birch	<i>Betula spp.</i>	BI	6	1 299.99
Wales	Private sector	Birch	<i>Betula spp.</i>	BI	8	443.56
Wales	Private sector	Birch	<i>Betula spp.</i>	BI	10	38.40
Wales	Private sector	Birch	<i>Betula spp.</i>	BI	12	227.92
Wales	Private sector	Sycamore	<i>Acer pseudoplatanus</i>	SY	2	50 497.82
Wales	Private sector	Sycamore	<i>Acer pseudoplatanus</i>	SY	4	5 276.11
Wales	Private sector	Sycamore	<i>Acer pseudoplatanus</i>	SY	6	3 973.05
Wales	Private sector	Sycamore	<i>Acer pseudoplatanus</i>	SY	8	2 429.78
Wales	Private sector	Sycamore	<i>Acer pseudoplatanus</i>	SY	10	1 789.82
Wales	Private sector	Sycamore	<i>Acer pseudoplatanus</i>	SY	12	1 541.91
Wales	Private sector	Poplar	<i>Populus. spp.</i>	PO	2	826.72
Wales	Private sector	Poplar	<i>Populus. spp.</i>	PO	4	597.17
Wales	Private sector	Poplar	<i>Populus. spp.</i>	PO	6	92.59
Wales	Private sector	Poplar	<i>Populus. spp.</i>	PO	8	37.53
Wales	Private sector	Poplar	<i>Populus. spp.</i>	PO	10	200.33
Wales	Private sector	Poplar	<i>Populus. spp.</i>	PO	12	67.30
Northern Ireland	Public forest estate	Norway spruce	<i>Picea abies</i>	NS	6	2.48
Northern Ireland	Public forest estate	Norway spruce	<i>Picea abies</i>	NS	8	2.18
Northern Ireland	Public forest estate	Norway spruce	<i>Picea abies</i>	NS	10	6.00

Country	Ownership	CARBINE tree species			Yield class (m ³ ha ⁻¹ yr ⁻¹)	Area (ha)
		Common name	Latin name	Sp. code		
Northern Ireland	Public forest estate	Norway spruce	<i>Picea abies</i>	NS	12	93.43
Northern Ireland	Public forest estate	Norway spruce	<i>Picea abies</i>	NS	14	234.96
Northern Ireland	Public forest estate	Norway spruce	<i>Picea abies</i>	NS	16	1 344.49
Northern Ireland	Public forest estate	Norway spruce	<i>Picea abies</i>	NS	18	235.62
Northern Ireland	Public forest estate	Norway spruce	<i>Picea abies</i>	NS	20	373.96
Northern Ireland	Public forest estate	Norway spruce	<i>Picea abies</i>	NS	22	4.26
Northern Ireland	Public forest estate	Sitka spruce	<i>Picea sitchensis</i>	SS	6	20.01
Northern Ireland	Public forest estate	Sitka spruce	<i>Picea sitchensis</i>	SS	8	43.54
Northern Ireland	Public forest estate	Sitka spruce	<i>Picea sitchensis</i>	SS	10	275.92
Northern Ireland	Public forest estate	Sitka spruce	<i>Picea sitchensis</i>	SS	12	4 159.47
Northern Ireland	Public forest estate	Sitka spruce	<i>Picea sitchensis</i>	SS	14	6 511.78
Northern Ireland	Public forest estate	Sitka spruce	<i>Picea sitchensis</i>	SS	16	17 546.77
Northern Ireland	Public forest estate	Sitka spruce	<i>Picea sitchensis</i>	SS	18	5 356.56
Northern Ireland	Public forest estate	Sitka spruce	<i>Picea sitchensis</i>	SS	20	2 095.45
Northern Ireland	Public forest estate	Sitka spruce	<i>Picea sitchensis</i>	SS	22	87.54
Northern Ireland	Public forest estate	Scots pine	<i>Pinus sylvestris</i>	SP	4	12.49
Northern Ireland	Public forest estate	Scots pine	<i>Pinus sylvestris</i>	SP	6	46.40
Northern Ireland	Public forest estate	Scots pine	<i>Pinus sylvestris</i>	SP	8	249.64
Northern Ireland	Public forest estate	Scots pine	<i>Pinus sylvestris</i>	SP	10	158.90
Northern Ireland	Public forest estate	Scots pine	<i>Pinus sylvestris</i>	SP	12	634.66
Northern Ireland	Public forest estate	Scots pine	<i>Pinus sylvestris</i>	SP	14	71.30
Northern Ireland	Public forest estate	Corsican pine	<i>Pinus nigra</i> ssp. <i>laricio</i>	CP	6	0.72
Northern Ireland	Public forest estate	Corsican pine	<i>Pinus nigra</i> ssp. <i>laricio</i>	CP	8	4.06

Country	Ownership	CARBINE tree species			Yield class (m ³ ha ⁻¹ yr ⁻¹)	Area (ha)
		Common name	Latin name	Sp. code		
Northern Ireland	Public forest estate	Corsican pine	<i>Pinus nigra</i> ssp. <i>laricio</i>	CP	10	4.94
Northern Ireland	Public forest estate	Corsican pine	<i>Pinus nigra</i> ssp. <i>laricio</i>	CP	12	101.76
Northern Ireland	Public forest estate	Corsican pine	<i>Pinus nigra</i> ssp. <i>laricio</i>	CP	14	0.64
Northern Ireland	Public forest estate	Corsican pine	<i>Pinus nigra</i> ssp. <i>laricio</i>	CP	16	85.15
Northern Ireland	Public forest estate	Corsican pine	<i>Pinus nigra</i> ssp. <i>laricio</i>	CP	18	1.04
Northern Ireland	Public forest estate	Lodgepole pine	<i>Pinus contorta</i>	LP	4	164.17
Northern Ireland	Public forest estate	Lodgepole pine	<i>Pinus contorta</i>	LP	6	420.19
Northern Ireland	Public forest estate	Lodgepole pine	<i>Pinus contorta</i>	LP	8	2 365.68
Northern Ireland	Public forest estate	Lodgepole pine	<i>Pinus contorta</i>	LP	10	786.98
Northern Ireland	Public forest estate	Lodgepole pine	<i>Pinus contorta</i>	LP	12	339.65
Northern Ireland	Public forest estate	Lodgepole pine	<i>Pinus contorta</i>	LP	14	25.40
Northern Ireland	Public forest estate	European larch	<i>Larix decidua</i>	EL	6	13.20
Northern Ireland	Public forest estate	European larch	<i>Larix decidua</i>	EL	8	103.88
Northern Ireland	Public forest estate	European larch	<i>Larix decidua</i>	EL	10	362.22
Northern Ireland	Public forest estate	European larch	<i>Larix decidua</i>	EL	12	38.90
Northern Ireland	Public forest estate	Japanese/hybrid larch	<i>Larix kaempferi</i> /L.	JL	4	2.34
Northern Ireland	Public forest estate	Japanese/hybrid larch	<i>Larix kaempferi</i> /L.	JL	6	27.62
Northern Ireland	Public forest estate	Japanese/hybrid larch	<i>Larix kaempferi</i> /L.	JL	8	172.65
Northern Ireland	Public forest estate	Japanese/hybrid larch	<i>Larix kaempferi</i> /L.	JL	10	475.51
Northern Ireland	Public forest estate	Japanese/hybrid larch	<i>Larix kaempferi</i> /L.	JL	12	982.70
Northern Ireland	Public forest estate	Japanese/hybrid larch	<i>Larix kaempferi</i> /L.	JL	14	318.13
Northern Ireland	Public forest estate	Douglas fir	<i>Pseudotsuga menziesii</i>	DF	12	1.24
Northern Ireland	Public forest estate	Douglas fir	<i>Pseudotsuga menziesii</i>	DF	14	1.17

Country	Ownership	CARBINE tree species			Yield class (m ³ ha ⁻¹ yr ⁻¹)	Area (ha)
		Common name	Latin name	Sp. code		
Northern Ireland	Public forest estate	Douglas fir	<i>Pseudotsuga menziesii</i>	DF	16	25.44
Northern Ireland	Public forest estate	Douglas fir	<i>Pseudotsuga menziesii</i>	DF	18	354.05
Northern Ireland	Public forest estate	Douglas fir	<i>Pseudotsuga menziesii</i>	DF	20	32.26
Northern Ireland	Public forest estate	Douglas fir	<i>Pseudotsuga menziesii</i>	DF	22	39.61
Northern Ireland	Public forest estate	Grand fir	<i>Abies grandis</i>	GF	14	3.12
Northern Ireland	Public forest estate	Noble fir	<i>Abies procera</i>	NF	10	0.55
Northern Ireland	Public forest estate	Noble fir	<i>Abies procera</i>	NF	12	15.36
Northern Ireland	Public forest estate	Noble fir	<i>Abies procera</i>	NF	14	93.71
Northern Ireland	Public forest estate	Noble fir	<i>Abies procera</i>	NF	16	232.90
Northern Ireland	Public forest estate	Noble fir	<i>Abies procera</i>	NF	18	16.40
Northern Ireland	Public forest estate	Noble fir	<i>Abies procera</i>	NF	20	3.33
Northern Ireland	Public forest estate	Western hemlock	<i>Tsuga heterophylla</i>	WH	12	55.20
Northern Ireland	Public forest estate	Western hemlock	<i>Tsuga heterophylla</i>	WH	14	14.83
Northern Ireland	Public forest estate	Western hemlock	<i>Tsuga heterophylla</i>	WH	16	11.38
Northern Ireland	Public forest estate	Western hemlock	<i>Tsuga heterophylla</i>	WH	18	0.38
Northern Ireland	Public forest estate	Western red cedar	<i>Thuja plicata</i>	RC	12	41.72
Northern Ireland	Public forest estate	Western red cedar	<i>Thuja plicata</i>	RC	14	5.87
Northern Ireland	Public forest estate	Western red cedar	<i>Thuja plicata</i>	RC	16	7.01
Northern Ireland	Public forest estate	Western red cedar	<i>Thuja plicata</i>	RC	18	0.17
Northern Ireland	Public forest estate	Oak	<i>Quercus spp.</i>	OK	4	200.46
Northern Ireland	Public forest estate	Oak	<i>Quercus spp.</i>	OK	6	155.26
Northern Ireland	Public forest estate	Oak	<i>Quercus spp.</i>	OK	8	536.49
Northern Ireland	Public forest estate	Ash	<i>Fraxinus excelsior</i>	AH	4	158.93

Country	Ownership	CARBINE tree species			Yield class (m ³ ha ⁻¹ yr ⁻¹)	Area (ha)
		Common name	Latin name	Sp. code		
Northern Ireland	Public forest estate	Ash	<i>Fraxinus excelsior</i>	AH	6	55.72
Northern Ireland	Public forest estate	Ash	<i>Fraxinus excelsior</i>	AH	8	63.49
Northern Ireland	Public forest estate	Ash	<i>Fraxinus excelsior</i>	AH	10	1.90
Northern Ireland	Public forest estate	Ash	<i>Fraxinus excelsior</i>	AH	12	1.13
Northern Ireland	Public forest estate	Beech	<i>Fagus sylvatica</i>	BE	4	10.35
Northern Ireland	Public forest estate	Beech	<i>Fagus sylvatica</i>	BE	6	20.05
Northern Ireland	Public forest estate	Beech	<i>Fagus sylvatica</i>	BE	8	107.32
Northern Ireland	Public forest estate	Beech	<i>Fagus sylvatica</i>	BE	10	46.15
Northern Ireland	Public forest estate	Birch	<i>Betula spp.</i>	BI	4	160.20
Northern Ireland	Public forest estate	Birch	<i>Betula spp.</i>	BI	6	42.96
Northern Ireland	Public forest estate	Birch	<i>Betula spp.</i>	BI	8	54.10
Northern Ireland	Public forest estate	Birch	<i>Betula spp.</i>	BI	10	0.41
Northern Ireland	Public forest estate	Sycamore	<i>Acer pseudoplatanus</i>	SY	4	130.85
Northern Ireland	Public forest estate	Sycamore	<i>Acer pseudoplatanus</i>	SY	6	64.87
Northern Ireland	Public forest estate	Sycamore	<i>Acer pseudoplatanus</i>	SY	8	397.06
Northern Ireland	Public forest estate	Sycamore	<i>Acer pseudoplatanus</i>	SY	10	6.67
Northern Ireland	Public forest estate	Sycamore	<i>Acer pseudoplatanus</i>	SY	12	6.44
Northern Ireland	Public forest estate	Poplar	<i>Populus. spp.</i>	PO	4	1.42
Northern Ireland	Public forest estate	Poplar	<i>Populus. spp.</i>	PO	6	2.63
Northern Ireland	Public forest estate	Poplar	<i>Populus. spp.</i>	PO	8	34.08
Northern Ireland	Public forest estate	Poplar	<i>Populus. spp.</i>	PO	10	4.32
Northern Ireland	Public forest estate	Poplar	<i>Populus. spp.</i>	PO	14	0.62
Northern Ireland	Public forest estate	Nothofagus	<i>Nothofagus spp.</i>	NO	10	3.43

Country	Ownership	CARBINE tree species			Yield class (m ³ ha ⁻¹ yr ⁻¹)	Area (ha)
		Common name	Latin name	Sp. code		
Northern Ireland	Private sector	Norway spruce	<i>Picea abies</i>	NS	6	0.49
Northern Ireland	Private sector	Norway spruce	<i>Picea abies</i>	NS	8	0.43
Northern Ireland	Private sector	Norway spruce	<i>Picea abies</i>	NS	10	1.18
Northern Ireland	Private sector	Norway spruce	<i>Picea abies</i>	NS	12	18.35
Northern Ireland	Private sector	Norway spruce	<i>Picea abies</i>	NS	14	46.15
Northern Ireland	Private sector	Norway spruce	<i>Picea abies</i>	NS	16	264.10
Northern Ireland	Private sector	Norway spruce	<i>Picea abies</i>	NS	18	46.28
Northern Ireland	Private sector	Norway spruce	<i>Picea abies</i>	NS	20	73.46
Northern Ireland	Private sector	Norway spruce	<i>Picea abies</i>	NS	22	0.84
Northern Ireland	Private sector	Sitka spruce	<i>Picea sitchensis</i>	SS	6	3.93
Northern Ireland	Private sector	Sitka spruce	<i>Picea sitchensis</i>	SS	8	8.55
Northern Ireland	Private sector	Sitka spruce	<i>Picea sitchensis</i>	SS	10	54.20
Northern Ireland	Private sector	Sitka spruce	<i>Picea sitchensis</i>	SS	12	817.04
Northern Ireland	Private sector	Sitka spruce	<i>Picea sitchensis</i>	SS	14	1 279.10
Northern Ireland	Private sector	Sitka spruce	<i>Picea sitchensis</i>	SS	16	3 446.69
Northern Ireland	Private sector	Sitka spruce	<i>Picea sitchensis</i>	SS	18	1 052.18
Northern Ireland	Private sector	Sitka spruce	<i>Picea sitchensis</i>	SS	20	411.61
Northern Ireland	Private sector	Sitka spruce	<i>Picea sitchensis</i>	SS	22	17.20
Northern Ireland	Private sector	Scots pine	<i>Pinus sylvestris</i>	SP	4	2.45
Northern Ireland	Private sector	Scots pine	<i>Pinus sylvestris</i>	SP	6	9.11
Northern Ireland	Private sector	Scots pine	<i>Pinus sylvestris</i>	SP	8	49.04
Northern Ireland	Private sector	Scots pine	<i>Pinus sylvestris</i>	SP	10	31.21
Northern Ireland	Private sector	Scots pine	<i>Pinus sylvestris</i>	SP	12	124.67

Country	Ownership	CARBINE tree species			Yield class (m ³ ha ⁻¹ yr ⁻¹)	Area (ha)
		Common name	Latin name	Sp. code		
Northern Ireland	Private sector	Scots pine	<i>Pinus sylvestris</i>	SP	14	14.01
Northern Ireland	Private sector	Corsican pine	<i>Pinus nigra</i> ssp. <i>laricio</i>	CP	6	0.14
Northern Ireland	Private sector	Corsican pine	<i>Pinus nigra</i> ssp. <i>laricio</i>	CP	8	0.80
Northern Ireland	Private sector	Corsican pine	<i>Pinus nigra</i> ssp. <i>laricio</i>	CP	10	0.97
Northern Ireland	Private sector	Corsican pine	<i>Pinus nigra</i> ssp. <i>laricio</i>	CP	12	19.99
Northern Ireland	Private sector	Corsican pine	<i>Pinus nigra</i> ssp. <i>laricio</i>	CP	14	0.13
Northern Ireland	Private sector	Corsican pine	<i>Pinus nigra</i> ssp. <i>laricio</i>	CP	16	16.73
Northern Ireland	Private sector	Corsican pine	<i>Pinus nigra</i> ssp. <i>laricio</i>	CP	18	0.21
Northern Ireland	Private sector	Lodgepole pine	<i>Pinus contorta</i>	LP	4	32.25
Northern Ireland	Private sector	Lodgepole pine	<i>Pinus contorta</i>	LP	6	82.54
Northern Ireland	Private sector	Lodgepole pine	<i>Pinus contorta</i>	LP	8	464.69
Northern Ireland	Private sector	Lodgepole pine	<i>Pinus contorta</i>	LP	10	154.59
Northern Ireland	Private sector	Lodgepole pine	<i>Pinus contorta</i>	LP	12	66.72
Northern Ireland	Private sector	Lodgepole pine	<i>Pinus contorta</i>	LP	14	4.99
Northern Ireland	Private sector	European larch	<i>Larix decidua</i>	EL	6	2.59
Northern Ireland	Private sector	European larch	<i>Larix decidua</i>	EL	8	20.40
Northern Ireland	Private sector	European larch	<i>Larix decidua</i>	EL	10	71.15
Northern Ireland	Private sector	European larch	<i>Larix decidua</i>	EL	12	7.64
Northern Ireland	Private sector	Japanese/hybrid larch	<i>Larix kaempferi</i> /L.	JL	4	0.46
Northern Ireland	Private sector	Japanese/hybrid larch	<i>Larix kaempferi</i> /L.	JL	6	5.42
Northern Ireland	Private sector	Japanese/hybrid larch	<i>Larix kaempferi</i> /L.	JL	8	33.91
Northern Ireland	Private sector	Japanese/hybrid larch	<i>Larix kaempferi</i> /L.	JL	10	93.40
Northern Ireland	Private sector	Japanese/hybrid larch	<i>Larix kaempferi</i> /L.	JL	12	193.03

Country	Ownership	CARBINE tree species			Yield class (m ³ ha ⁻¹ yr ⁻¹)	Area (ha)
		Common name	Latin name	Sp. code		
Northern Ireland	Private sector	Japanese/hybrid larch	<i>Larix kaempferi</i> /L.	JL	14	62.49
Northern Ireland	Private sector	Douglas fir	<i>Pseudotsuga menziesii</i>	DF	12	0.24
Northern Ireland	Private sector	Douglas fir	<i>Pseudotsuga menziesii</i>	DF	14	0.23
Northern Ireland	Private sector	Douglas fir	<i>Pseudotsuga menziesii</i>	DF	16	5.00
Northern Ireland	Private sector	Douglas fir	<i>Pseudotsuga menziesii</i>	DF	18	69.55
Northern Ireland	Private sector	Douglas fir	<i>Pseudotsuga menziesii</i>	DF	20	6.34
Northern Ireland	Private sector	Douglas fir	<i>Pseudotsuga menziesii</i>	DF	22	7.78
Northern Ireland	Private sector	Grand fir	<i>Abies grandis</i>	GF	14	0.61
Northern Ireland	Private sector	Noble fir	<i>Abies procera</i>	NF	10	0.11
Northern Ireland	Private sector	Noble fir	<i>Abies procera</i>	NF	12	3.02
Northern Ireland	Private sector	Noble fir	<i>Abies procera</i>	NF	14	18.41
Northern Ireland	Private sector	Noble fir	<i>Abies procera</i>	NF	16	45.75
Northern Ireland	Private sector	Noble fir	<i>Abies procera</i>	NF	18	3.22
Northern Ireland	Private sector	Noble fir	<i>Abies procera</i>	NF	20	0.65
Northern Ireland	Private sector	Western hemlock	<i>Tsuga heterophylla</i>	WH	12	10.84
Northern Ireland	Private sector	Western hemlock	<i>Tsuga heterophylla</i>	WH	14	2.91
Northern Ireland	Private sector	Western hemlock	<i>Tsuga heterophylla</i>	WH	16	2.24
Northern Ireland	Private sector	Western hemlock	<i>Tsuga heterophylla</i>	WH	18	0.07
Northern Ireland	Private sector	Western red cedar	<i>Thuja plicata</i>	RC	12	8.19
Northern Ireland	Private sector	Western red cedar	<i>Thuja plicata</i>	RC	14	1.15
Northern Ireland	Private sector	Western red cedar	<i>Thuja plicata</i>	RC	16	1.38
Northern Ireland	Private sector	Western red cedar	<i>Thuja plicata</i>	RC	18	0.03
Northern Ireland	Private sector	Oak	<i>Quercus spp.</i>	OK	4	1 102.54

Country	Ownership	CARBINE tree species			Yield class (m ³ ha ⁻¹ yr ⁻¹)	Area (ha)
		Common name	Latin name	Sp. code		
Northern Ireland	Private sector	Oak	Quercus spp.	OK	6	853.92
Northern Ireland	Private sector	Oak	Quercus spp.	OK	8	2 950.76
Northern Ireland	Private sector	Ash	Fraxinus excelsior	AH	4	874.16
Northern Ireland	Private sector	Ash	Fraxinus excelsior	AH	6	306.45
Northern Ireland	Private sector	Ash	Fraxinus excelsior	AH	8	349.20
Northern Ireland	Private sector	Ash	Fraxinus excelsior	AH	10	10.48
Northern Ireland	Private sector	Ash	Fraxinus excelsior	AH	12	6.20
Northern Ireland	Private sector	Beech	Fagus sylvatica	BE	4	56.90
Northern Ireland	Private sector	Beech	Fagus sylvatica	BE	6	110.29
Northern Ireland	Private sector	Beech	Fagus sylvatica	BE	8	590.28
Northern Ireland	Private sector	Beech	Fagus sylvatica	BE	10	253.83
Northern Ireland	Private sector	Birch	Betula spp.	BI	4	881.12
Northern Ireland	Private sector	Birch	Betula spp.	BI	6	236.30
Northern Ireland	Private sector	Birch	Betula spp.	BI	8	297.54
Northern Ireland	Private sector	Birch	Betula spp.	BI	10	2.25
Northern Ireland	Private sector	Sycamore	Acer pseudoplatanus	SY	4	719.69
Northern Ireland	Private sector	Sycamore	Acer pseudoplatanus	SY	6	356.80
Northern Ireland	Private sector	Sycamore	Acer pseudoplatanus	SY	8	2 183.87
Northern Ireland	Private sector	Sycamore	Acer pseudoplatanus	SY	10	36.69
Northern Ireland	Private sector	Sycamore	Acer pseudoplatanus	SY	12	35.43
Northern Ireland	Private sector	Poplar	Populus. spp.	PO	4	7.82
Northern Ireland	Private sector	Poplar	Populus. spp.	PO	6	14.45
Northern Ireland	Private sector	Poplar	Populus. spp.	PO	8	187.44

Country	Ownership	CARBINE tree species			Yield class (m ³ ha ⁻¹ yr ⁻¹)	Area (ha)
		Common name	Latin name	Sp. code		
Northern Ireland	Private sector	Poplar	<i>Populus</i> . spp.	PO	10	23.75
Northern Ireland	Private sector	Poplar	<i>Populus</i> . spp.	PO	14	3.40
Northern Ireland	Private sector	Nothofagus	<i>Nothofagus</i> spp.	NO	10	18.84

Annex 3 Worked examples of detailed calculation of detailed Forest Management Practices

Introduction

The following analysis steps were carried out by referring to standard yield models (Matthews et al., 2016) for combinations of tree species and yield class and for the following management treatments:

- No thinning
- Standard thinning.

An initial tree planting spacing was selected equivalent to that referred to for the tree species in the CARBINE model.

Models involving no thinning

An output file was produced containing a result on each row, for each combination of tree species and yield class.

Each row of results consisted of:

1. Tree species
2. Yield class
3. Age of maximum MAI or the age at which the last full volume thinning is scheduled in the yield model.
4. A value P, where P is defined below.

P is calculated as:

$$(0.9 / S) \times 100$$

where $S = 1 + F1$

and $F1$ = crown expansion factor for the tree species, taken from the CARBINE model.

Example (1): Calculations for Sitka spruce, Yield Class 12, no thinning, 1.7 metre initial planting spacing

- Select a yield model consistent with the specification above, i.e. select model for SS, YC12, no thin, 1.7 metre spacing (standard spacing for models for this species), see Figure A3.1.
- Find the age of maximum MAI or the age of the last full volume thinning in the yield model, by reviewing the yield model with thinning for the equivalent combination of Species, Yield Class and initial planting spacing, and setting age of maximum MAI as last age of full MT volume thinning, defined as 70% of the yield class \times thinning cycle (usually 5 years, e.g. $0.7 \times 12 \times 5 = 42 \text{ m}^3 \text{ ha}^{-1}$). For this example the relevant age is 54 years.

Figure A3.1. Example yield table for unthinned Sitka spruce.

Species	Yield class	Thinning treatment	Max MAI age		Stand area	Percent mortality	MAI vol $\text{m}^3/\text{ha}/\text{yr}$
			54	1.7			
Sitka spruce	12	No Thinning	Mean dbh cm	BA m^2/ha	Mean vol m^3	Vol m^3/ha	MAI vol $\text{m}^3/\text{ha}/\text{yr}$
Age yrs	Top ht m	Trees /ha					
19	7	3317	10	25	0.02	63	0 3.3
24	9.6	3087	12	36	0.04	129	0 5.4
29	12.2	2806	14	46	0.07	210	0 7.3
34	14.7	2567	16	53	0.12	298	1 8.8
39	16.9	2271	18	57	0.17	385	3 9.8
44	19	2009	20	61	0.23	466	4 10.5
49	20.8	1794	21	63	0.3	536	6 10.9
54	22.4	1625	23	65	0.37	595	8 11
59	23.7	1498	24	67	0.43	645	9 10.9
64	24.8	1404	25	69	0.49	686	11 10.7
69	25.7	1330	26	70	0.54	721	12 10.4
74	26.5	1266	27	71	0.59	752	12 10.1
79	27.3	1209	28	72	0.65	780	13 9.9

The value "P" is calculated as 1 plus the crown expansion factor from the CARBINE model for the tree species. In this example this is $1 + 0.32 = 1.32$. P is calculated as $(0.9 / 1.32) \times 100 = 68.18$.

Models involving standard thinning

An output file was produced containing a result on each row, for each combination of tree species and yield class.

Each row of results consisted of:

- Tree species
- Yield class
- Age of first thinning (as represented in the yield model)
- Age of maximum MAI or last full volume thinning
- Q1, where Q1 is defined below

-
6. Q2, where Q2 is defined below
 7. Q3, where Q3 is defined below
 8. Q4, where Q4 is defined below
 9. Q5, where Q5 is defined below
 10. Q6, where Q6 is defined below
 11. P, where P has already been defined for no-thin models (see earlier).

Calculation of Q1, Q2, Q3 and Q4

Step 1

The following calculations were carried out for each age in the yield model for which a thinning volume is removed:

Calculate $p(i) = ((0.9 \times v_{\text{thin}}(i)) / ((1 + F1) * v_{\text{before}}(i))) \times 100$

where $p(i)$ is the result required for the i th thinning

and $F1$ and $F2$ have already been defined for no-thin models (see earlier)

and $v_{\text{thin}}(i)$ = the stem volume removed at the i th thinning

and $v_{\text{before}}(i)$ = the standing stem volume before thinning at the age of the i th thinning.

Step 2

The following calculations were carried out for the thinnings that occur at ages up to and including the age of maximum MAI or the last full volume thinning:

1. Find the minimum value of $p(i)$; assign this value to Q1
2. Find the mean value of $p(i)$; assign this value to Q2
3. Find the maximum value of $p(i)$; assign this value to Q3.

Step 3

The following calculations were carried out for the thinnings that occur at ages after the age of maximum MAI or the last full volume thinning:

- Find the minimum value of $p(i)$; assign this value to Q4
- Find the mean value of $p(i)$; assign this value to Q5

- Find the maximum value of p (i); assign this value to Q6.

Step 4

This step was only carried out for yield models where initial thinnings occur before the first ‘standard’ thinning (see Example 1 for definition of standard thinning).

Calculate $p = ((0.9 \times v_{\text{thin}}) / ((1 + F1) * v_{\text{before}})) \times 100$

where p is the result required for the (non-standard) initial thinning

and F1 has already been defined for no-thin models (see earlier)

and v_{thin} = the stem volume removed at the initial thinning

and v_{before} = the standing stem volume before thinning at the age of the initial thinning.

Report the calculated value separately from other thinnings.

Example (2): Scots pine, Yield Class 8, intermediate thinning, 1.4 metre initial planting spacing.

- Select a yield model consistent with the specification above, i.e. select model for SP, YC8, intermediate thin, 1.4 metre spacing (standard spacing for models for this species), see Figure A3.2.
- For each age in the yield model with a thinning, a value “p” is calculated. For example, for the first thinning in this example, “p” is calculated as:

$$p = ((0.9 \times 28) / (1 + 0.34) \times 105.3) \times 100 = 17.9$$

Figure A3.2. Example yield table for thinned Scots pine.

Species	Yield class	Thinning treatment	Initial spacing	Stand area		Max MAI age	Sub thin type	Late thin age	Late thin cycle	Yield from THINNINGS						CUMULATIVE PRODUCTION	MAI	
				1	2nd thin age													
1st thin delay	1st thin type	1st thin age																
0 years	INTERMEDIATE	29 years		34 years	79 years	INTERMEDIATE	N/A	N/A		MAIN CROP before thinning								
Age yrs	Top ht m		Trees /ha	Mean dbh cm	BA m ² /ha	Mean vol m ³	Vol m ³ /ha	Trees /ha	Mean dbh cm	BA m ² /ha	Mean vol m ³	Vol m ³ /ha	BA m ² /ha	Vol m ³ /ha	BA m ² /ha	Vol m ³ /ha	Vol m ³ /yr	
19	6.2		4652	7	19	0.01	34	0	0	0	0	0	0	0	19	34	1.8	
24	8.1		4273	9	25	0.01	64	0	0	0	0	0	0	0	25	64	2.7	
29	9.9		3819	10	32	0.03	105	1323	10	11	0.02	28	32	105	3.6			
34	11.6		2407	12	27	0.05	127	747	11	7	0.04	28	38	155	4.6			
39	13.2		1660	14	27	0.09	155	402	13	5	0.07	28	45	211	5.4			
44	14.7		1258	17	29	0.15	185	251	15	4	0.11	28	52	269	6.1			
49	16		1007	20	30	0.21	215	172	17	4	0.16	28	58	327	6.7			
54	17.2		836	22	32	0.29	245	124	19	4	0.23	28	63	385	7.1			
59	18.3		712	25	34	0.38	273	93	22	3	0.3	28	68	441	7.5			
64	19.4		618	27	35	0.48	299	72	24	3	0.39	28	73	495	7.7			
69	20.3		546	29	36	0.59	321	57	26	3	0.49	28	78	545	7.9			
74	21.1		489	31	37	0.69	339	42	28	3	0.58	25	81	591	8			
79	21.8		447	33	38	0.79	355	32	30	2	0.67	22	85	631	8			
84	22.4		415	34	38	0.89	368	27	31	2	0.68	19	87	666	7.9			
89	22.9		388	35	38	0.98	379	19	33	2	0.81	16	89	696	7.8			
94	23.3		368	36	38	1.06	390	15	34	1	0.9	13	91	722	7.7			
99	23.7		354	37	39	1.13	399	11	35	1	0.97	10	93	745	7.5			

For this example, the following values of “p” can be calculated for the 9 thinnings prior to age of maximum MAI: 17.9, 14.8, 12.2, 10.2, 8.7, 7.7, 6.9, 6.3, 5.9.

Step 2 involves reviewing the results from Step 1 for the thinnings up to and including the age of maximum MAI to find the following values:

Q1 = minimum value = 5.9

Q2 = mean value = 10 (mean of the 9 qualifying thinning events listed above)

Q3 = maximum value = 17.9 (see equation above).

Step 3 involves repeating the same process as Step 2, but for the thinnings occurring after the defined age of maximum MAI. In this example there are 16 thinnings after the age of maximum MAI. The calculated values of “p” are: 4.9, 4.1, 3.4, 2.8, 2.2, 1.7, 1.3, 1.0, 0.8, 0.6, 0.5, 0.4, 0.3, 0.2, 0.2, 0.1. The results are reviewed to find the following values:

Q4 = minimum value = 0.1

Q5 = mean value = 1.5 (mean of the 16 qualifying thinning events listed above)

Q6 = maximum value = 4.9.

Example (3): Oak, Yield Class 6, intermediate thin, 1.2 metre initial planting spacing.

This example is similar to Example 2 above. However, it includes a non-standard initial (pre-commercial) thinning reported separately from the results of the other steps in the process.

- Select a yield model consistent with the specification above, i.e. select model for OK, YC6, intermediate thinning, 1.2 metre spacing (standard spacing for models for this species), see Figure A3.3.
- For each age in the yield model with a thinning, a value “p” is calculated. For example, for the first thinning in this example, “p” is calculated as:

$$p = ((0.9 \times 21) / (1 + 0.24) \times 97.3) \times 100 = 15.7$$

Figure A3.3. Example yield table for thinned oak.

Species	Yield class	Thinning treatment	Initial spacing	Stand area															
Oak	6	Intermediate	1.2	1															
1st thin delay	1st thin type	1st thin age	2nd thin age	Max MAI age	Sub thin type	Late thin age	Late thin cycle												
0 years	INTERMEDIATE	25 years	30 years	80 years	INTERMEDIATE	N/A	N/A												
MAIN CROP before thinning																			
Age yrs	Top ht m	Trees /ha	Mean dbh cm	BA m ² /ha	Mean vol m ³	Vol m ³ /ha	Trees /ha	Mean dbh cm	BA m ² /ha	Mean vol m ³	Vol m ³ /ha	BA m ² /ha	Vol m ³ /ha	BA m ² /ha	Vol m ³ /ha	BA m ² /ha	Vol m ³ /ha	Vol m ³ /yr	
20	8.4	5115	7	19	0.01	42	0	0	0	0	0	0	19	42	2.1				
25	10.4	5114	8	25	0.01	71	1585	6	5	0.01	8	25	71	2.8					
30	12.2	3529	10	26	0.03	97	1385	8	7	0.02	21	31	106	3.5					
35	13.9	2144	12	24	0.05	116	685	10	5	0.03	21	36	145	4.1					
40	15.4	1459	14	24	0.09	137	386	11	4	0.05	21	41	187	4.7					
45	16.8	1073	17	24	0.15	158	252	13	4	0.08	21	45	229	5.1					
50	18.1	822	19	24	0.22	178	176	15	3	0.12	21	49	271	5.4					
55	19.2	646	22	25	0.31	197	121	17	3	0.17	21	52	311	5.6					
60	20.2	524	25	25	0.41	214	89	20	3	0.24	21	55	349	5.8					
65	21.1	436	27	25	0.53	229	66	22	2	0.32	21	58	384	5.9					
70	21.9	370	29	25	0.65	242	51	24	2	0.41	21	61	418	6					
75	22.7	319	32	25	0.79	252	40	26	2	0.53	21	63	450	6					
80	23.3	279	34	26	0.94	261	33	28	2	0.63	21	66	480	6					
85	23.9	246	36	26	1.09	269	28	30	2	0.75	21	68	508	6					
90	24.4	217	39	26	1.26	275	24	32	2	0.89	21	70	535	5.9					
95	24.8	194	41	25	1.44	279	20	35	2	1.03	21	72	560	5.9					
100	25.2	173	43	25	1.62	282	17	37	2	1.21	21	73	584	5.8					
105	25.6	157	45	25	1.81	283	14	39	2	1.37	20	75	606	5.8					
110	25.9	143	47	25	2	284	12	41	2	1.53	19	76	627	5.7					
115	26.2	131	49	24	2.18	285	10	43	1	1.76	18	77	646	5.6					
120	26.4	121	50	24	2.36	285	9	45	1	1.94	17	79	664	5.5					
125	26.6	113	52	24	2.53	284	8	46	1	2.03	16	80	680	5.4					
130	26.8	105	53	23	2.72	284	7	48	1	2.22	15	81	696	5.4					
135	27	98	55	23	2.89	283	6	50	1	2.41	14	82	710	5.3					
140	27.2	92	56	23	3.07	283	5	52	1	2.58	13	83	724	5.2					
145	27.3	87	58	23	3.25	282	5	54	1	2.78	13	83	736	5.1					
150	27.4	82	59	23	3.41	280	4	55	1	2.97	12	84	747	5					

For this example, the following values of “p” can be calculated for the 14 ‘standard’ thinnings prior to age of maximum MAI: 15.7, 13.2, 11.2, 9.7, 8.6, 7.7, 7.1, 6.7, 6.3, 6.0, 5.8, 5.7, 5.5, 5.5.

Step 2 involves reviewing the results from Step 1 for the thinnings up to and including the age of maximum MAI to find the following values:

Q1 = minimum value = 5.5

Q2 = mean value = 8.2 (mean of the 14 qualifying thinning events listed above)

Q3 = maximum value = 15.7 (see equation above).

Step 3 involves repeating the same process as Step 2, but for the thinnings occurring after the defined age of maximum MAI. In this example there are 40 thinnings after the age of maximum MAI. The calculated values of “p” are: 5.3, 5.0, 4.8, 4.5, 4.3, 4.1, 3.9, 3.6, 3.4, 3.2, 3.0, 2.8, 2.6, 2.4, 2.3, 2.1, 2.0, 1.8, 1.7, 1.6, 1.5, 1.4, 1.3, 1.2, 1.1, 1.0, 0.9, 0.9, 0.8, 0.8, 0.7, 0.7, 0.6, 0.6, 0.5, 0.5, 0.4, 0.4, 0.4.

The results are reviewed to find the following values:

Q4 = minimum value = 0.4

Q5 = mean value = 2.0 (mean of the 40 qualifying thinning events listed above)

Q6 = maximum value = 5.3 (see equation above).

Step 4 involves the calculation of p for the initial (non-standard) thinning in this yield model. The resulting value p = 8.6 and is reported separately.

Annex 4 Methodology and rules applied in development of estimates of rotations applied to forest strata in FMPs for the public forest estates in England, Wales and Scotland

Methodology

The following analysis was carried out on the sub-compartment database data (SCDB data) for the public forest estates in England, Scotland and Wales.

The analysis was based on SCDB data available for the years 2000 to 2009.

For each of the years 2000 to 2008, it was possible to identify those forest areas in the SCDB that had been reassigned in the following year as “felled”. For example, for the year 2000, it was possible to identify those forest areas that had been reclassified as “felled” in the data for the year 2001, and so on.

Since the planting years of forest components are recorded in SCDB data, the implied rotations applied to forest areas can be calculated by subtracting the planting year from the apparent felling year (see above).

In some cases, data had to be rejected (e.g. if the apparent rotation was less than or equal to zero, implying that the planting year had already been updated to a new value).

An initial analysis of implied rotations for different tree species indicated that rotations were not changing or evolving over the period 2000 to 2009. Hence the main analysis considered the data for these years as a single, combined data set.

Main analysis: Step 1

Each felled forest area was assigned a “CARBINE tree species”. For the majority of forest areas, this involved assigning the actual tree species to the felled area, e.g. an area of felled Scots pine in the SCDB was assigned a “CARBINE tree species” of Scots pine. For areas where relatively minor tree species were felled, these were “mapped” to the most appropriate “CARBINE tree species”. For example, an area of felled Weymouth pine in the SCDB was assigned a “CARBINE tree species” of Scots pine. Due to limited data, broadleaf forest areas were grouped together under the single “CARBINE tree species” of sycamore (“other broadleaves”), the exceptions being oak and beech, which were treated as individual tree species.

Main analysis: Step 2

The data on felled areas were classified and grouped according to

- The relevant “CARBINE tree species”
- Their assigned yield class in the SCDB
- Their assigned “basic yield model” in the SCDB (i.e. prescribing the area as thinned or unthinned).

Hence, the felled forest areas were grouped into strata, each one involving a unique combination of “CARBINE tree species”, yield class and thinning treatment (basic yield model).

Each stratum was then analysed separately according to Steps 3 and 4.

Main analysis: Step 3

The data on felled areas for a stratum were arranged into a frequency distribution, showing the forest area associated with different implied rotations, ranging from 15 years to 300 years.

Given the frequency distribution for a stratum, it was possible to derive a probability distribution, i.e. a distribution indicating the probability of a forest stratum having a specified applied rotation applied.

Main analysis: Step 4

The “tails” of the probability distribution for each rotation were excluded from further calculations. This was a precaution aimed at eliminating extremely long or short rotations which were very likely to reflect data recording/maintenance errors. This involved identifying the bottom and top 5% of the probability distributions as excluded from contributing further to the analysis.

The portion of the probability distribution representing the central one-third of the distribution was identified and the mean rotation was calculated for this portion. This was taken to represent a “mid-range” rotation for the stratum.

The portion of the probability distribution ranging from the excluded lower 5% tail up to the central one-third of the distribution was identified and the mean rotation was calculated for this portion. This was taken to represent a “low” rotation for the stratum.

The portion of the probability distribution ranging from the central one-third up to the excluded upper 5% tail of the distribution was identified and the mean rotation was calculated for this portion. This was taken to represent a “high” rotation for the stratum.

In this way, “low”, “mid-range” and “high” rotations were estimated for each stratum, i.e. for each combination of “CARBINE tree species”, basic yield model (“no thinning”, “thinning”) and yield class.

Rules

A set of rules was needed to deal with situations where no data were available for estimating “low”, “mid-range” and “high” rotations for a stratum, or where data were so few that estimation was unreliable.

Rules 1 to 4 below deal with situations that arose in the data sets available for England, Scotland and Wales. Rules covering other possible situations/cases were not needed because they did not occur in the data.

Rule 1

Rule 1 is applied to the results for each yield class, as obtained in each country, for a combination of “CARBINE tree species” and “basic yield model”.

IF:

The total felled forest area available in the data, used for estimating the “low”, mid-range” and “high” rotations for the yield class is less than 10 ha OR
There are no data available for the yield class.

THEN:

Do not use the estimates obtained (if any) for the yield class
Instead, apply the estimates obtained from the data set formed by combining all yield classes for the “CARBINE tree species” and “basic yield model” (after applying Rules 1 to 3).

Variations to the action under Rule 1 were considered, such as applying the results for another yield class, where these were valid. However, the alternative actions added complexity to the process and it was decided that they were unlikely to result in significant improvements to the estimation of rotations.

Rule 2

Consider the following data sets for each of England, Scotland and Wales:

Data set 1: data for a given combination of a “CARBINE tree species” and a “basic yield model” of “no thinning”, taking data for all yield classes together
Data set 2: data for a given combination of a “CARBINE tree species” and a “basic yield model” of “thinning”, taking data for all yield classes together.

IF, in any one country:

Data set 1 (“no thinning”) represents a total felled forest area less than 100 ha AND
Data set 2 (“thinning”) represents a total felled forest area less than 100 ha AND
Data sets 1 and 2 combined represent a total felled forest area less than 100 ha.

THEN:

Combine data sets 1 and 2 (for the “CARBINE tree species”) and also combine the data sets available for England, Scotland and Wales into a single data set. Use this combined data set to estimate “low”, “mid-range” and “high” rotations for each yield class and assume these apply for the “CARBINE tree species” and both cases of “no thinning” and “thinning”. The above calculations should be carried separately out for each yield class represented in the data, and also for the data set formed by combining all yield classes.

Rule 3

Consider the following data sets for each of England, Scotland and Wales:

Data set 1: data for a given combination of a “CARBINE tree species” and a “basic yield model” of “no thinning”, taking data for all yield classes together

Data set 2: data for a given combination of a “CARBINE tree species” and a “basic yield model” of “thinning”, taking data for all yield classes together.

IF, in any one country:

Data set 1 (no thinning) represents a total felled forest area less than 100 ha AND

Data set 2 (thinning) represents a total felled forest area of at least 100 ha.

THEN:

Do not use data set 1

Use data set 2 (for the “CARBINE tree species” and “thinning”) to estimate “low”, “mid-range” and “high” rotations for each yield class and assume these apply for the “CARBINE tree species” and “no thinning”, as well as for the case involving “thinning”.

The above calculations should be carried separately out for each yield class represented in the data, and for the data set formed by combining all yield classes.

Rule 4

IF Rules 2 and 3 do not apply, then this should mean that, in each country:

Data set 1 (no thinning) represents a total felled forest area of at least 100 ha AND

Data set 2 (thinning) represents a total felled forest area of at least 100 ha.

THEN:

Use data set 1 to estimate “low”, “mid-range” and “high” rotations for each yield class, for the case of “CARBINE tree species” and “no thinning”

Use data set 2 to estimate “low”, “mid-range” and “high” rotations for each yield class, for the case of “CARBINE tree species” and “thinning”.

The above calculations should be carried separately out for each yield class represented in the data, and for the data set formed by combining all yield classes.

Annex 5 Description of detailed Forest Management Practices (FMPs)

Forest Management Practice involving no harvesting

Forest management practice		Silvicultural operations with no final harvesting, no thinning
Index	Name of Practice	Comments
FMP1	No thinning, no clearcutting	PFE and private sector; all species; all yield classes

Public forest estate (England, Scotland and Wales): Forest Management Practices involving clearcutting with no thinning during the rotation

Note that three rotations are assigned for each FMP. Equal proportions of forest area within a stratum are assigned to each of the 3 rotations.

Index	Name of practice	Silvicultural operations with final harvesting – No thinning			
		Final cutting			% biomass removals
		Age (years)	Low	Mid-range	
FMP2	NSYC2NTE	48	52	59	67
FMP3	NSYC2NTS	43	48	78	67
FMP4	NSYC2NTW	42	51	60	67
FMP5	NSYC4NTE	48	52	59	67
FMP6	NSYC4NTS	45	55	72	67
FMP7	NSYC4NTW	42	51	60	67
FMP8	NSYC6NTE	48	51	55	66
FMP9	NSYC6NTS	45	57	71	66
FMP10	NSYC6NTW	58	81	81	66
FMP11	NSYC8NTE	48	52	60	66
FMP12	NSYC8NTS	40	48	61	66
FMP13	NSYC8NTW	47	63	70	66
FMP14	NSYC10NTE	49	52	58	66

FMP		Silvicultural operations with final harvesting – No thinning Final cutting			
Index	Name of practice	Age (years)			% biomass removals
		Low	Mid-range	High	
FMP15	NSYC10NTS	42	47	57	66
FMP16	NSYC10NTW	42	57	67	66
FMP17	NSYC12NTE	46	53	62	66
FMP18	NSYC12NTS	42	48	55	66
FMP19	NSYC12NTW	44	51	61	66
FMP20	NSYC14NTE	52	54	57	66
FMP21	NSYC14NTS	43	48	53	66
FMP22	NSYC14NTW	47	51	58	66
FMP23	NSYC16NTE	43	55	66	66
FMP24	NSYC16NTS	40	48	54	66
FMP25	NSYC16NTW	39	47	54	66
FMP26	NSYC18NTE	48	52	59	66
FMP27	NSYC18NTS	42	46	51	66
FMP28	NSYC18NTW	41	47	55	66
FMP29	NSYC20NTE	48	52	59	66
FMP30	NSYC20NTS	35	44	50	66
FMP31	NSYC20NTW	38	41	48	66
FMP32	NSYC22NTE	48	52	59	66
FMP33	NSYC22NTS	42	42	44	66
FMP34	NSYC22NTW	42	51	60	66
FMP35	NSYC24NTE	48	52	59	72
FMP36	NSYC24NTS	42	48	55	72
FMP37	NSYC26NTS	42	48	55	72
FMP38	SSYC2NTE	41	50	61	67
FMP39	SSYC2NTS	37	44	53	67
FMP40	SSYC2NTW	44	49	51	67
FMP41	SSYC4NTE	47	52	59	67
FMP42	SSYC4NTS	42	52	54	67
FMP43	SSYC4NTW	44	55	56	67
FMP44	SSYC6NTE	46	52	59	68
FMP45	SSYC6NTS	38	46	57	68
FMP46	SSYC6NTW	38	45	48	68
FMP47	SSYC8NTE	45	50	55	68
FMP48	SSYC8NTS	35	43	53	68
FMP49	SSYC8NTW	38	42	52	68

FMP		Silvicultural operations with final harvesting – No thinning Final cutting			
Index	Name of practice	Age (years)			% biomass removals
		Low	Mid-range	High	
FMP50	SSYC10NTE	44	50	54	68
FMP51	SSYC10NTS	36	44	51	68
FMP52	SSYC10NTW	37	45	53	68
FMP53	SSYC12NTE	42	49	54	68
FMP54	SSYC12NTS	34	42	49	68
FMP55	SSYC12NTW	38	45	51	68
FMP56	SSYC14NTE	37	45	52	68
FMP57	SSYC14NTS	33	39	48	68
FMP58	SSYC14NTW	37	44	51	68
FMP59	SSYC16NTE	30	39	48	68
FMP60	SSYC16NTS	32	39	47	68
FMP61	SSYC16NTW	34	42	50	68
FMP62	SSYC18NTE	25	35	44	68
FMP63	SSYC18NTS	31	37	44	68
FMP64	SSYC18NTW	36	43	47	68
FMP65	SSYC20NTE	25	30	34	68
FMP66	SSYC20NTS	31	36	43	68
FMP67	SSYC20NTW	34	39	47	68
FMP68	SSYC22NTE	23	29	45	68
FMP69	SSYC22NTS	30	38	45	68
FMP70	SSYC22NTW	32	39	41	68
FMP71	SSYC24NTE	39	48	54	68
FMP72	SSYC24NTS	32	35	39	68
FMP73	SSYC24NTW	32	40	45	68
FMP74	SSYC26NTE	39	48	54	72
FMP75	SSYC26NTS	30	30	30	72
FMP76	SSYC28NTS	33	40	48	72
FMP77	SSYC30NTS	33	40	48	72
FMP78	SPYC2NTE	45	48	57	67
FMP79	SPYC2NTS	41	45	52	67
FMP80	SPYC2NTW	46	51	55	67
FMP81	SPYC4NTE	45	48	57	67
FMP82	SPYC4NTS	37	50	76	67
FMP83	SPYC4NTW	46	51	55	67
FMP84	SPYC6NTE	45	48	57	67

FMP		Silvicultural operations with final harvesting – No thinning Final cutting			
Index	Name of practice	Age (years)			% biomass removals
		Low	Mid-range	High	
FMP85	SPYC6NTS	42	48	55	67
FMP86	SPYC6NTW	46	51	55	67
FMP87	SPYC8NTE	43	49	60	67
FMP88	SPYC8NTS	41	45	51	67
FMP89	SPYC8NTW	49	54	64	67
FMP90	SPYC10NTE	44	47	55	67
FMP91	SPYC10NTS	40	45	50	67
FMP92	SPYC10NTW	46	50	52	67
FMP93	SPYC12NTE	46	49	59	67
FMP94	SPYC12NTS	40	44	50	67
FMP95	SPYC12NTW	46	49	52	67
FMP96	SPYC14NTE	43	47	53	67
FMP97	SPYC14NTS	41	45	52	67
FMP98	SPYC14NTW	46	51	55	67
FMP99	SPYC16NTE	46	51	53	73
FMP100	SPYC16NTS	41	45	52	73
FMP101	CPYC2NTE	38	48	64	67
FMP102	CPYC2NTS	46	50	63	67
FMP103	CPYC2NTW	41	46	55	67
FMP104	CPYC4NTS	46	50	63	67
FMP105	CPYC4NTW	41	46	55	67
FMP106	CPYC6NTE	38	48	64	73
FMP107	CPYC6NTS	50	50	54	73
FMP108	CPYC6NTW	41	46	55	73
FMP109	CPYC8NTE	38	48	64	73
FMP110	CPYC8NTS	48	63	65	73
FMP111	CPYC8NTW	45	49	66	73
FMP112	CPYC10NTE	38	48	64	73
FMP113	CPYC10NTS	47	46	46	73
FMP114	CPYC10NTW	40	47	53	73
FMP115	CPYC12NTE	38	41	56	73
FMP116	CPYC12NTS	46	48	48	73
FMP117	CPYC12NTW	39	43	45	73
FMP118	CPYC14NTE	38	58	61	73
FMP119	CPYC14NTS	46	50	63	73

FMP		Silvicultural operations with final harvesting – No thinning Final cutting			
Index	Name of practice	Age (years)			% biomass removals
		Low	Mid-range	High	
FMP120	CPYC14NTW	43	43	44	73
FMP121	CPYC16NTE	41	49	60	73
FMP122	CPYC16NTW	41	46	55	73
FMP123	CPYC18NTE	38	48	64	73
FMP124	CPYC18NTW	41	46	55	73
FMP125	CPYC20NTW	41	46	55	73
FMP126	CPYC22NTW	41	46	55	72
FMP127	LPYC2NTE	46	48	49	67
FMP128	LPYC2NTS	28	32	42	67
FMP129	LPYC2NTW	36	41	46	67
FMP130	LPYC4NTE	41	47	50	67
FMP131	LPYC4NTS	23	41	47	67
FMP132	LPYC4NTW	38	44	49	67
FMP133	LPYC6NTE	39	44	48	67
FMP134	LPYC6NTS	36	42	47	67
FMP135	LPYC6NTW	41	45	48	67
FMP136	LPYC8NTE	38	40	46	67
FMP137	LPYC8NTS	34	39	44	67
FMP138	LPYC8NTW	38	42	45	67
FMP139	LPYC10NTE	36	40	47	67
FMP140	LPYC10NTS	32	37	42	67
FMP141	LPYC10NTW	37	39	43	67
FMP142	LPYC12NTE	39	45	48	67
FMP143	LPYC12NTS	32	35	40	67
FMP144	LPYC12NTW	33	35	40	67
FMP145	LPYC14NTE	39	45	48	67
FMP146	LPYC14NTS	30	31	34	67
FMP147	LPYC14NTW	33	33	34	67
FMP148	LPYC16NTS	33	39	45	73
FMP149	LPYC16NTW	36	41	46	73
FMP150	ELYC2NTS	45	52	75	80
FMP151	ELYC4NTE	73	76	77	80
FMP152	ELYC4NTS	44	53	71	80
FMP153	ELYC4NTW	50	52	66	80
FMP154	ELYC6NTE	45	70	74	80

FMP		Silvicultural operations with final harvesting – No thinning Final cutting			
Index	Name of practice	Age (years)			% biomass removals
		Low	Mid-range	High	
FMP155	ELYC6NTS	49	79	84	80
FMP156	ELYC6NTW	50	52	66	80
FMP157	ELYC8NTE	46	57	71	80
FMP158	ELYC8NTS	46	51	62	80
FMP159	ELYC8NTW	50	52	66	80
FMP160	ELYC10NTE	46	56	63	80
FMP161	ELYC10NTS	43	46	52	80
FMP162	ELYC10NTW	50	52	66	80
FMP163	ELYC12NTE	39	42	54	80
FMP164	ELYC12NTS	44	48	61	80
FMP165	ELYC12NTW	50	52	66	80
FMP166	ELYC14NTE	43	57	73	76
FMP167	ELYC14NTS	45	52	75	76
FMP168	ELYC16NTS	45	52	75	73
FMP169	JLYC2NTE	41	49	53	76
FMP170	JLYC2NTS	38	45	52	76
FMP171	JLYC2NTW	38	45	51	76
FMP172	JLYC4NTE	39	47	50	76
FMP173	JLYC4NTS	31	39	46	76
FMP174	JLYC4NTW	42	45	47	76
FMP175	JLYC6NTE	36	49	52	76
FMP176	JLYC6NTS	35	42	49	76
FMP177	JLYC6NTW	32	39	51	76
FMP178	JLYC8NTE	42	46	56	76
FMP179	JLYC8NTS	39	44	49	76
FMP180	JLYC8NTW	36	43	50	76
FMP181	JLYC10NTE	44	47	53	76
FMP182	JLYC10NTS	41	47	50	76
FMP183	JLYC10NTW	39	45	51	76
FMP184	JLYC12NTE	47	50	52	76
FMP185	JLYC12NTS	43	47	51	76
FMP186	JLYC12NTW	40	45	53	76
FMP187	JLYC14NTE	41	49	53	76
FMP188	JLYC14NTS	42	47	49	76
FMP189	JLYC14NTW	39	43	50	76

FMP		Silvicultural operations with final harvesting – No thinning Final cutting			
Index	Name of practice	Age (years)			% biomass removals
		Low	Mid-range	High	
FMP190	JLYC16NTE	41	49	53	73
FMP191	JLYC16NTS	39	45	50	73
FMP192	JLYC16NTW	38	45	51	73
FMP193	JLYC20NTS	39	45	50	73
FMP194	DFYC2NTE	37	43	51	67
FMP195	DFYC2NTS	38	46	51	67
FMP196	DFYC2NTW	42	47	51	67
FMP197	DFYC6NTS	38	46	51	67
FMP198	DFYC8NTE	37	43	51	71
FMP199	DFYC8NTS	38	43	53	71
FMP200	DFYC8NTW	42	47	51	71
FMP201	DFYC10NTE	43	48	54	71
FMP202	DFYC10NTS	40	49	52	71
FMP203	DFYC10NTW	42	47	51	71
FMP204	DFYC12NTE	39	46	51	71
FMP205	DFYC12NTS	40	47	50	71
FMP206	DFYC12NTW	42	47	51	71
FMP207	DFYC14NTE	35	42	50	71
FMP208	DFYC14NTS	42	45	50	71
FMP209	DFYC14NTW	42	47	52	71
FMP210	DFYC16NTE	36	41	47	71
FMP211	DFYC16NTS	31	37	49	71
FMP212	DFYC16NTW	44	47	57	71
FMP213	DFYC18NTE	35	41	49	71
FMP214	DFYC18NTS	38	46	51	71
FMP215	DFYC18NTW	42	45	48	71
FMP216	DFYC20NTE	35	39	57	71
FMP217	DFYC20NTS	38	46	51	71
FMP218	DFYC20NTW	45	47	49	71
FMP219	DFYC22NTE	34	41	45	71
FMP220	DFYC22NTS	38	46	51	71
FMP221	DFYC22NTW	42	47	51	71
FMP222	DFYC24NTE	39	45	49	71
FMP223	DFYC24NTS	38	46	51	71
FMP224	DFYC24NTW	42	47	51	71

FMP		Silvicultural operations with final harvesting – No thinning Final cutting			
Index	Name of practice	Age (years)			% biomass removals
		Low	Mid-range	High	
FMP225	DFYC26NTS	38	46	51	72
FMP226	GFYC2NTSW	35	42	47	67
FMP227	GFYC4NTSW	35	42	47	67
FMP228	GFYC8NTS	35	42	47	68
FMP229	GFYC10NTS	35	42	47	68
FMP230	GFYC12NTE	40	43	48	72
FMP231	GFYC12NTSW	35	42	47	72
FMP232	GFYC14NTE	31	38	47	72
FMP233	GFYC14NTSW	40	43	48	72
FMP234	GFYC16NTE	37	43	49	72
FMP235	GFYC16NTSW	31	38	47	72
FMP236	GFYC18NTE	38	44	47	72
FMP237	GFYC18NTSW	37	43	49	72
FMP238	GFYC20NTE	37	42	46	72
FMP239	GFYC20NTSW	38	44	47	72
FMP240	GFYC22NTE	35	41	43	72
FMP241	GFYC22NTSW	37	42	46	72
FMP242	GFYC24NTE	35	42	47	72
FMP243	GFYC24NTSW	35	41	43	72
FMP244	GFYC26NTE	33	35	36	72
FMP245	GFYC26NTSW	35	42	47	72
FMP246	GFYC28NTE	35	42	47	72
FMP247	GFYC28NTSW	33	35	36	72
FMP248	GFYC30NTSW	35	42	47	72
FMP249	NFYC2NTS	37	43	48	67
FMP250	NFYC4NTSW	37	43	48	67
FMP251	NFYC6NTSW	37	43	48	68
FMP252	NFYC8NTSW	37	43	48	68
FMP253	NFYC10NTESW	35	39	45	70
FMP254	NFYC12NTESW	35	40	45	70
FMP255	NFYC14NTESW	36	42	48	70
FMP256	NFYC16NTESW	39	44	49	70
FMP257	NFYC18NTSW	38	42	46	70
FMP258	NFYC20NTSW	37	45	48	70
FMP259	NFYC22NTESW	38	42	47	70

FMP		Silvicultural operations with final harvesting – No thinning Final cutting			
Index	Name of practice	Age (years)			% biomass removals
		Low	Mid-range	High	
FMP260	NFYC24NTSW	37	43	48	72
FMP261	NFYC26NTS	37	43	48	72
FMP262	NFYC28NTS	37	43	48	72
FMP263	WHYC2NTSW	38	43	49	67
FMP264	WHYC4NTS	38	43	49	67
FMP265	WHYC6NTSW	38	43	49	68
FMP266	WHYC8NTESW	38	43	49	68
FMP267	WHYC10NTESW	43	51	61	68
FMP268	WHYC12NTESW	41	46	52	76
FMP269	WHYC14NTESW	40	45	50	76
FMP270	WHYC16NTESW	39	43	49	76
FMP271	WHYC18NTESW	37	43	48	76
FMP272	WHYC20NTESW	36	40	45	76
FMP273	WHYC22NTESW	37	41	48	76
FMP274	WHYC24NTSW	36	41	49	76
FMP275	WHYC26NTS	38	43	49	72
FMP276	RCYC2NTSW	43	43	44	67
FMP277	RCYC4NTS	38	44	54	67
FMP278	RCYC6NTS	38	44	54	68
FMP279	RCYC8NTESW	38	44	54	68
FMP280	RCYC10NTESW	46	52	64	68
FMP281	RCYC12NTESW	44	52	58	67
FMP282	RCYC14NTESW	39	47	57	67
FMP283	RCYC16NTESW	38	40	44	67
FMP284	RCYC18NTESW	36	45	54	67
FMP285	RCYC20NTESW	35	38	45	67
FMP286	RCYC22NTESW	36	42	49	67
FMP287	RCYC24NTES	36	38	43	67
FMP288	RCYC24NTW	36	38	43	67

Public forest estate (England, Scotland and Wales): Forest Management Practices involving clearcutting with thinning during the rotation

Note that three rotations are assigned for each FMP. Equal proportions of forest area within a stratum are assigned to each of the 3 rotations.

Forest management Silvicultural operations with final harvesting – Thinning practice													
Index	Name of practice	Initial thinning		Main thinnings				Late-rotation thinnings			Final cutting		
		Age (yrs)	% biomass removals	Age of first (yrs)	No. (5 yr cycle)	% biomass removals	Age of first (yrs)	No. (5 yr cycle)	% biomass removals	Age (years)	% biomass removals		
ID	Name	IT	IT	MT	MT	MT	LRT	LRT	LRT	FC	FC		
		Age	%BR	Age	cyc.	%BR	Age	Cyc.	%BR	Age	%BR		

ID	Name	IT Age	IT %BR	MT Age	MT cyc	MT % BR			LRT Age	LRT cyc	LRT % BR			FC Age (years)			FC % BR
						min	mid	max			min	mid	max	low	mid	high	
FMP289	NSYC2THE	-	0	40	9	4.7	8.0	14	85	8	0.3	1.8	4.2	42	50	60	67
FMP290	NSYC2THS	-	0	40	9	4.7	8.0	14	85	8	0.3	1.8	4.2	46	57	68	67
FMP291	NSYC2THW	-	0	40	9	4.7	8.0	14	85	8	0.3	1.8	4.2	42	53	64	67
FMP292	NSYC4THE	-	0	40	9	4.7	8.0	14	85	8	0.3	1.8	4.2	42	50	60	67
FMP293	NSYC4THS	-	0	40	9	4.7	8.0	14	85	8	0.3	1.8	4.2	51	61	75	67
FMP294	NSYC4THW	-	0	40	9	4.7	8.0	14	85	8	0.3	1.8	4.2	44	51	60	67
FMP295	NSYC6THE	-	0	35	7	6.1	10	16	70	34	0.1	1.1	5.2	49	58	63	66
FMP296	NSYC6THS	-	0	35	7	6.1	10	16	70	34	0.1	1.1	5.2	50	58	70	66
FMP297	NSYC6THW	-	0	35	7	6.1	10	16	70	34	0.1	1.1	5.2	45	49	59	66
FMP298	NSYC8THE	-	0	31	8	5.9	10	17	71	45	0.4	1.4	4.5	43	52	63	66
FMP299	NSYC8THS	-	0	31	8	5.9	10	17	71	45	0.4	1.4	4.5	47	56	65	66

ID	Name	IT Age	IT %BR	MT Age	MT cyc	MT % BR			LRT Age	LRT cyc	LRT % BR			FC Age (years)			FC % BR
						min	mid	max			min	mid	max	low	mid	high	
FMP300	NSYC8THW	-	0	31	8	5.9	10	17	71	45	0.4	1.4	4.5	50	59	67	66
FMP301	NSYC10THE	-	0	28	8	6.3	11	20	68	46	0.3	1.4	5.1	44	50	57	66
FMP302	NSYC10THS	-	0	28	8	6.3	11	20	68	46	0.3	1.4	5.1	46	53	63	66
FMP303	NSYC10THW	-	0	28	8	6.3	11	20	68	46	0.3	1.4	5.1	48	58	66	66
FMP304	NSYC12THE	-	0	26	8	6.6	12	22	66	46	0.8	1.8	5.6	42	54	61	66
FMP305	NSYC12THS	-	0	26	8	6.6	12	22	66	46	0.8	1.8	5.6	45	51	58	66
FMP306	NSYC12THW	-	0	26	8	6.6	12	22	66	46	0.8	1.8	5.6	46	52	61	66
FMP307	NSYC14THE	-	0	24	9	6.5	12	24	69	45	0.5	1.6	5.0	40	51	57	66
FMP308	NSYC14THS	-	0	24	9	6.5	12	24	69	45	0.5	1.6	5.0	44	50	56	66
FMP309	NSYC14THW	-	0	24	9	6.5	12	24	69	45	0.5	1.6	5.0	48	53	59	66
FMP310	NSYC16THE	-	0	23	8	7.1	13	25	63	47	0.2	1.4	6.1	37	45	54	66
FMP311	NSYC16THS	-	0	23	8	7.1	13	25	63	47	0.2	1.4	6.1	42	49	56	66

ID	Name	IT Age	IT %BR	MT Age	MT cyc	MT % BR			LRT Age	LRT cyc	LRT % BR			FC Age (years)			FC % BR
						min	mid	max			min	mid	max	low	mid	high	
FMP312	NSYC16THW	-	0	23	8	7.1	13	25	63	47	0.2	1.4	6.1	41	50	55	66
FMP313	NSYC18THE	-	0	22	8	7.3	13	26	62	47	0.2	1.4	6.3	37	41	48	66
FMP314	NSYC18THS	-	0	22	8	7.3	13	26	62	47	0.2	1.4	6.3	40	49	54	66
FMP315	NSYC18THW	-	0	22	8	7.3	13	26	62	47	0.2	1.4	6.3	42	47	54	66
FMP316	NSYC20THE	-	0	21	8	7.5	14	28	61	47	0.1	1.3	6.6	36	39	45	66
FMP317	NSYC20THS	-	0	21	8	7.5	14	28	61	47	0.1	1.3	6.6	40	49	54	66
FMP318	NSYC20THW	-	0	21	8	7.5	14	28	61	47	0.1	1.3	6.6	37	43	47	66
FMP319	NSYC22THE	-	0	20	8	7.8	15	30	60	44	0.1	1.2	6.8	30	38	42	66
FMP320	NSYC22THS	-	0	20	8	7.8	15	30	60	44	0.1	1.2	6.8	46	53	55	66
FMP321	NSYC22THW	-	0	20	8	7.8	15	30	60	44	0.1	1.2	6.8	37	44	50	66
FMP322	NSYC24THE	-	0	21	5	10	16	27	46	28	0.1	1.5	7.2	42	50	60	72
FMP323	NSYC24THW	-	0	21	5	10	16	27	46	28	0.1	1.5	7.2	44	51	60	72

ID	Name	IT Age	IT %BR	MT Age	MT cyc	MT % BR			LRT Age	LRT cyc	LRT % BR			FC Age (years)			FC % BR
						min	mid	max			min	mid	max	low	mid	high	
FMP324	NSYC30THE	-	0	21	5	10	16	27	46	28	0.1	1.5	7.2	42	50	60	72
FMP325	SSYC2THE	-	0	40	9	4.7	8.0	14	85	8	0.3	1.8	4.2	51	56	73	67
FMP326	SSYC2THS	-	0	40	9	4.7	8.0	14	85	8	0.3	1.8	4.2	40	47	55	67
FMP327	SSYC2THW	-	0	40	9	4.7	8.0	14	85	8	0.3	1.8	4.2	35	43	55	67
FMP328	SSYC4THE	-	0	40	9	4.7	8.0	14	85	8	0.3	1.8	4.2	54	60	60	67
FMP329	SSYC4THS	-	0	40	9	4.7	8.0	14	85	8	0.3	1.8	4.2	41	50	53	67
FMP330	SSYC4THW	-	0	40	9	4.7	8.0	14	85	8	0.3	1.8	4.2	31	35	46	67
FMP331	SSYC6THE	-	0	33	5	6.7	10	14	58	46	0.3	1.4	5.6	48	52	61	68
FMP332	SSYC6THS	-	0	33	5	6.7	10	14	58	46	0.3	1.4	5.6	39	51	59	68
FMP333	SSYC6THW	-	0	33	5	6.7	10	14	58	46	0.3	1.4	5.6	40	45	60	68
FMP334	SSYC8THE	-	0	29	6	6.9	11	17	59	47	0.5	1.5	5.1	41	50	56	68
FMP335	SSYC8THS	-	0	29	6	6.9	11	17	59	47	0.5	1.5	5.1	37	48	59	68

ID	Name	IT Age	IT %BR	MT Age	MT cyc	MT % BR			LRT Age	LRT cyc	LRT % BR			FC Age (years)			FC % BR
						min	mid	max			min	mid	max	low	mid	high	
FMP336	SSYC8THW	-	0	29	6	6.9	11	17	59	47	0.5	1.5	5.1	40	48	56	68
FMP337	SSYC10THE	-	0	26	6	7.5	12	20	56	47	0.2	1.2	5.7	43	50	58	68
FMP338	SSYC10THS	-	0	26	6	7.5	12	20	56	47	0.2	1.2	5.7	41	51	57	68
FMP339	SSYC10THW	-	0	26	6	7.5	12	20	56	47	0.2	1.2	5.7	39	47	55	68
FMP340	SSYC12THE	-	0	24	6	8.0	13	22	54	44	0.1	1.2	6.2	42	50	58	68
FMP341	SSYC12THS	-	0	24	6	8.0	13	22	54	44	0.1	1.2	6.2	37	48	55	68
FMP342	SSYC12THW	-	0	24	6	8.0	13	22	54	44	0.1	1.2	6.2	39	47	54	68
FMP343	SSYC14THE	-	0	22	6	8.5	15	25	52	38	0.1	1.3	6.7	37	49	55	68
FMP344	SSYC14THS	-	0	22	6	8.5	15	25	52	38	0.1	1.3	6.7	36	46	53	68
FMP345	SSYC14THW	-	0	22	6	8.5	15	25	52	38	0.1	1.3	6.7	38	44	52	68
FMP346	SSYC16THE	-	0	21	6	8.7	15	26	51	41	0.1	1.3	6.8	34	40	52	68
FMP347	SSYC16THS	-	0	21	6	8.7	15	26	51	41	0.1	1.3	6.8	35	43	51	68

ID	Name	IT Age	IT %BR	MT Age	MT cyc	MT % BR			LRT Age	LRT cyc	LRT % BR			FC Age (years)			FC % BR
						min	mid	max			min	mid	max	low	mid	high	
FMP348	SSYC16THW	-	0	21	6	8.7	15	26	51	41	0.1	1.3	6.8	38	45	53	68
FMP349	SSYC18THE	-	0	20	5	10	17	26	45	42	0.1	1.5	8.8	32	37	48	68
FMP350	SSYC18THS	-	0	20	5	10	17	26	45	42	0.1	1.5	8.8	32	38	47	68
FMP351	SSYC18THW	-	0	20	5	10	17	26	45	42	0.1	1.5	8.8	34	40	48	68
FMP352	SSYC20THE	-	0	19	6	9.2	16	27	49	40	0.1	1.3	7.1	30	33	41	68
FMP353	SSYC20THS	-	0	19	6	9.2	16	27	49	40	0.1	1.3	7.1	31	35	44	68
FMP354	SSYC20THW	-	0	19	6	9.2	16	27	49	40	0.1	1.3	7.1	33	39	45	68
FMP355	SSYC22THE	-	0	18	6	9.5	16	28	48	39	0.1	1.4	7.3	30	33	37	68
FMP356	SSYC22THS	-	0	18	6	9.5	16	28	48	39	0.1	1.4	7.3	30	35	42	68
FMP357	SSYC22THW	-	0	18	6	9.5	16	28	48	39	0.1	1.4	7.3	30	37	46	68
FMP358	SSYC24THE	-	0	18	5	10	17	26	43	44	0.1	1.4	8.6	32	37	42	68
FMP359	SSYC24THS	-	0	18	5	10	17	26	43	44	0.1	1.4	8.6	27	34	42	68

ID	Name	IT Age	IT %BR	MT Age	MT cyc	MT % BR			LRT Age	LRT cyc	LRT % BR			FC Age (years)			FC % BR
						min	mid	max			min	mid	max	low	mid	high	
FMP360	SSYC24THW	-	0	18	5	10	17	26	43	44	0.1	1.4	8.6	31	35	39	68
FMP361	SSYC26THE	-	0	20	5	10	18	30	45	32	0.1	1.4	7.6	36	47	56	72
FMP362	SSYC26THS	-	0	20	5	10	18	30	45	32	0.1	1.4	7.6	22	31	36	72
FMP363	SSYC26THW	-	0	20	5	10	18	30	45	32	0.1	1.4	7.6	37	44	52	72
FMP364	SSYC28THE	-	0	20	4	12	19	29	40	35	0.1	1.6	10.2	36	47	56	72
FMP365	SSYC28THS	-	0	20	4	12	19	29	40	35	0.1	1.6	10.2	34	43	52	72
FMP366	SSYC30THS	-	0	19	5	11	19	32	44	38	0.1	1.4	8.0	34	43	52	72
FMP367	SPYC2THE	-	0	40	9	4.7	8.0	14	85	8	0.3	1.8	4.2	52	52	53	67
FMP368	SPYC2THS	-	0	40	9	4.7	8.0	14	85	8	0.3	1.8	4.2	45	51	61	67
FMP369	SPYC2THW	-	0	40	9	4.7	8.0	14	85	8	0.3	1.8	4.2	47	52	63	67
FMP370	SPYC4THE	-	0	40	9	4.7	8.0	14	85	8	0.3	1.8	4.2	48	61	73	67
FMP371	SPYC4THS	-	0	40	9	4.7	8.0	14	85	8	0.3	1.8	4.2	48	60	73	67

ID	Name	IT Age	IT %BR	MT Age	MT cyc	MT % BR			LRT Age	LRT cyc	LRT % BR			FC Age (years)			FC % BR
						min	mid	max			min	mid	max	low	mid	high	
FMP372	SPYC4THW	-	0	40	9	4.7	8.0	14	85	8	0.3	1.8	4.2	52	54	68	67
FMP373	SPYC6THE	-	0	33	10	5.1	8.7	16	83	12	0.2	1.4	3.9	57	68	75	67
FMP374	SPYC6THS	-	0	33	10	5.1	8.7	16	83	12	0.2	1.4	3.9	45	53	65	67
FMP375	SPYC6THW	-	0	33	10	5.1	8.7	16	83	12	0.2	1.4	3.9	59	63	66	67
FMP376	SPYC8THE	-	0	29	9	5.9	10	18	74	16	0.1	1.5	4.9	49	66	75	67
FMP377	SPYC8THS	-	0	29	9	5.9	10	18	74	16	0.1	1.5	4.9	44	52	63	67
FMP378	SPYC8THW	-	0	29	9	5.9	10	18	74	16	0.1	1.5	4.9	46	51	60	67
FMP379	SPYC10THE	-	0	25	8	6.9	12	21	65	20	0.1	1.8	6.1	52	65	74	67
FMP380	SPYC10THS	-	0	25	8	6.9	12	21	65	20	0.1	1.8	6.1	44	50	58	67
FMP381	SPYC10THW	-	0	25	8	6.9	12	21	65	20	0.1	1.8	6.1	46	51	61	67
FMP382	SPYC12THE	-	0	23	8	7.2	12	21	63	25	0.1	1.6	6.1	48	58	70	67
FMP383	SPYC12THS	-	0	23	8	7.2	12	21	63	25	0.1	1.6	6.1	47	50	54	67

ID	Name	IT Age	IT %BR	MT Age	MT cyc	MT % BR			LRT Age	LRT cyc	LRT % BR			FC Age (years)			FC % BR
						min	mid	max			min	mid	max	low	mid	high	
FMP384	SPYC12THW	-	0	23	8	7.2	12	21	63	25	0.1	1.6	6.1	44	51	55	67
FMP385	SPYC14THE	-	0	21	7	8.4	14	23	56	28	0.1	1.8	7.3	43	49	59	67
FMP386	SPYC14THS	-	0	21	7	8.4	14	23	56	28	0.1	1.8	7.3	47	49	52	67
FMP387	SPYC14THW	-	0	21	7	8.4	14	23	56	28	0.1	1.8	7.3	47	52	63	67
FMP388	SPYC16THE	-	0	20	5	11	16	23	45	50	1.2	2.3	9.5	44	53	58	73
FMP389	SPYC16THS	-	0	20	5	11	16	23	45	50	1.2	2.3	9.5	45	51	61	73
FMP390	SPYC16THW	-	0	20	5	11	16	23	45	50	1.2	2.3	9.5	47	52	63	73
FMP391	SPYC18THE	-	0	19	6	10	16	25	49	49	1.4	2.3	8.1	48	61	73	73
FMP392	SPYC18THS	-	0	19	6	10	16	25	49	49	1.4	2.3	8.1	45	51	61	73
FMP393	SPYC20THW	-	0	18	6	11	17	27	48	50	1.1	2.2	8.2	47	52	63	73
FMP394	CPYC2THE	-	0	40	9	4.7	8.0	14	85	8	0.3	1.8	4.2	52	55	57	67
FMP395	CPYC2THS	-	0	40	9	4.7	8.0	14	85	8	0.3	1.8	4.2	46	50	63	67

ID	Name	IT Age	IT %BR	MT Age	MT cyc	MT % BR			LRT Age	LRT cyc	LRT % BR			FC Age (years)			FC % BR
						min	mid	max			min	mid	max	low	mid	high	
FMP396	CPYC4THE	-	0	40	9	4.7	8.0	14	85	8	0.3	1.8	4.2	43	52	61	67
FMP397	CPYC4THS	-	0	40	9	4.7	8.0	14	85	8	0.3	1.8	4.2	46	50	63	67
FMP398	CPYC4THW	-	0	40	9	4.7	8.0	14	85	8	0.3	1.8	4.2	41	46	55	67
FMP399	CPYC6THE	-	0	33	6	6.6	8.8	12	63	47	0.5	1.7	5.3	43	52	61	73
FMP400	CPYC6THS	-	0	33	6	6.6	8.8	12	63	47	0.5	1.7	5.3	50	50	54	73
FMP401	CPYC6THW	-	0	33	6	6.6	8.8	12	63	47	0.5	1.7	5.3	41	46	55	73
FMP402	CPYC8THE	-	0	28	6	7.6	10	15	58	48	0.7	1.8	6.1	45	55	61	73
FMP403	CPYC8THS	-	0	28	6	7.6	10	15	58	48	0.7	1.8	6.1	48	63	65	73
FMP404	CPYC8THW	-	0	28	6	7.6	10	15	58	48	0.7	1.8	6.1	41	46	55	73
FMP405	CPYC10THE	-	0	25	6	8.3	12	17	55	48	0.8	2.0	6.8	43	55	64	73
FMP406	CPYC10THS	-	0	25	6	8.3	12	17	55	48	0.8	2.0	6.8	47	46	46	73
FMP407	CPYC10THW	-	0	25	6	8.3	12	17	55	48	0.8	2.0	6.8	45	49	66	73

ID	Name	IT Age	IT %BR	MT Age	MT cyc	MT % BR			LRT Age	LRT cyc	LRT % BR			FC Age (years)			FC % BR
						min	mid	max			min	mid	max	low	mid	high	
FMP408	CPYC12THE	-	0	23	6	8.8	13	19	53	49	0.8	2.0	7.1	45	52	61	73
FMP409	CPYC12THS	-	0	23	6	8.8	13	19	53	49	0.8	2.0	7.1	46	48	48	73
FMP410	CPYC12THW	-	0	23	6	8.8	13	19	53	49	0.8	2.0	7.1	40	47	53	73
FMP411	CPYC14THE	-	0	21	6	9.5	14	22	51	49	1.8	2.5	7.8	44	52	63	73
FMP412	CPYC14THS	-	0	21	6	9.5	14	22	51	49	1.8	2.5	7.8	46	50	63	73
FMP413	CPYC14THW	-	0	21	6	9.5	14	22	51	49	1.8	2.5	7.8	39	43	45	73
FMP414	CPYC16THE	-	0	20	5	11	16	23	45	50	1.2	2.3	9.5	44	51	59	73
FMP415	CPYC16THW	-	0	20	5	11	16	23	45	50	1.2	2.3	9.5	43	43	44	73
FMP416	CPYC18THE	-	0	19	6	10	16	25	49	49	1.4	2.3	8.1	34	46	56	73
FMP417	CPYC18THW	-	0	19	6	10	16	25	49	49	1.4	2.3	8.1	41	46	55	73
FMP418	CPYC20THE	-	0	18	6	11	17	27	48	50	1.1	2.2	8.2	34	39	46	73
FMP419	CPYC20THW	-	0	18	6	11	17	27	48	50	1.1	2.2	8.2	41	46	55	73

ID	Name	IT Age	IT %BR	MT Age	MT cyc	MT % BR			LRT Age	LRT cyc	LRT % BR			FC Age (years)			FC % BR
						min	mid	max			min	mid	max	low	mid	high	
FMP420	CPYC22THE	-	0	21	5	10	17	28	46	28	0.1	1.5	7.4	43	52	61	72
FMP421	CPYC22THW	-	0	21	5	10	17	28	46	28	0.1	1.5	7.4	41	46	55	72
FMP422	LPYC2THE	-	0	40	5	5.4	6.5	7.9	65	46	1.1	1.8	4.9	33	33	36	67
FMP423	LPYC2THS	-	0	40	5	5.4	6.5	7.9	65	46	1.1	1.8	4.9	37	38	45	67
FMP424	LPYC2THW	-	0	40	5	5.4	6.5	7.9	65	46	1.1	1.8	4.9	36	43	49	67
FMP425	LPYC4THE	-	0	40	5	5.4	6.5	7.9	65	46	1.1	1.8	4.9	39	48	65	67
FMP426	LPYC4THS	-	0	40	5	5.4	6.5	7.9	65	46	1.1	1.8	4.9	42	48	57	67
FMP427	LPYC4THW	-	0	40	5	5.4	6.5	7.9	65	46	1.1	1.8	4.9	32	42	49	67
FMP428	LPYC6THE	-	0	31	7	6.0	7.9	11	66	46	1.6	2.3	4.8	38	40	47	67
FMP429	LPYC6THS	-	0	31	7	6.0	7.9	11	66	46	1.6	2.3	4.8	41	45	51	67
FMP430	LPYC6THW	-	0	31	7	6.0	7.9	11	66	46	1.6	2.3	4.8	42	45	49	67
FMP431	LPYC8THE	-	0	26	7	6.8	10	14	61	47	1.8	2.6	5.6	36	40	45	67

ID	Name	IT Age	IT %BR	MT Age	MT cyc	MT % BR			LRT Age	LRT cyc	LRT % BR			FC Age (years)			FC % BR
						min	mid	max			min	mid	max	low	mid	high	
FMP432	LPYC8THS	-	0	26	7	6.8	10	14	61	47	1.8	2.6	5.6	35	40	46	67
FMP433	LPYC8THW	-	0	26	7	6.8	10	14	61	47	1.8	2.6	5.6	39	45	50	67
FMP434	LPYC10THE	-	0	23	7	7.4	11	17	58	48	2.4	3.0	6.2	33	37	44	67
FMP435	LPYC10THS	-	0	23	7	7.4	11	17	58	48	2.4	3.0	6.2	34	36	44	67
FMP436	LPYC10THW	-	0	23	7	7.4	11	17	58	48	2.4	3.0	6.2	35	38	42	67
FMP437	LPYC12THE	-	0	21	7	7.9	12	19	56	48	2.2	2.9	6.6	31	40	49	67
FMP438	LPYC12THS	-	0	21	7	7.9	12	19	56	48	2.2	2.9	6.6	30	36	44	67
FMP439	LPYC12THW	-	0	21	7	7.9	12	19	56	48	2.2	2.9	6.6	34	35	38	67
FMP440	LPYC14THE	-	0	19	7	8.4	13	23	54	48	1.2	2.5	7.0	35	40	47	67
FMP441	LPYC14THS	-	0	19	7	8.4	13	23	54	48	1.2	2.5	7.0	35	41	48	67
FMP442	LPYC14THW	-	0	19	7	8.4	13	23	54	48	1.2	2.5	7.0	32	32	33	67
FMP443	LPYC16THE	-	0	20	5	11	16	23	45	50	1.2	2.3	9.5	35	40	47	73

ID	Name	IT Age	IT %BR	MT Age	MT cyc	MT % BR			LRT Age	LRT cyc	LRT % BR			FC Age (years)			FC % BR
						min	mid	max			min	mid	max	low	mid	high	
FMP444	LPYC16THS	-	0	20	5	11	16	23	45	50	1.2	2.3	9.5	35	41	48	73
FMP445	LPYC16THW	-	0	20	5	11	16	23	45	50	1.2	2.3	9.5	36	43	49	73
FMP446	LPYC18THE	-	0	19	6	10	16	25	49	49	1.4	2.3	8.1	35	40	47	73
FMP447	LPYC20THE	-	0	18	6	11	17	27	48	50	1.1	2.2	8.2	35	40	47	73
FMP448	LPYC20THS	-	0	18	6	11	17	27	48	50	1.1	2.2	8.2	35	41	48	73
FMP449	ELYC2THE	-	0	32	5	7.5	10	14	57	11	0.4	2.2	5.9	43	57	73	80
FMP450	ELYC2THS	-	0	32	5	7.5	10	14	57	11	0.4	2.2	5.9	43	52	63	80
FMP451	ELYC2THW	-	0	32	5	7.5	10	14	57	11	0.4	2.2	5.9	58	66	78	80
FMP452	ELYC4THE	-	0	32	5	7.5	10	14	57	11	0.4	2.2	5.9	73	76	77	80
FMP453	ELYC4THS	-	0	32	5	7.5	10	14	57	11	0.4	2.2	5.9	43	52	63	80
FMP454	ELYC4THW	-	0	32	5	7.5	10	14	57	11	0.4	2.2	5.9	58	66	78	80
FMP455	ELYC6THE	-	0	26	5	9.1	13	18	51	16	0.3	2.4	7.9	45	70	74	80

ID	Name	IT Age	IT %BR	MT Age	MT cyc	MT % BR			LRT Age	LRT cyc	LRT % BR			FC Age (years)			FC % BR
						min	mid	max			min	mid	max	low	mid	high	
FMP456	ELYC6THS	-	0	26	5	9.1	13	18	51	16	0.3	2.4	7.9	44	51	66	80
FMP457	ELYC6THW	-	0	26	5	9.1	13	18	51	16	0.3	2.4	7.9	75	77	77	80
FMP458	ELYC8THE	-	0	22	6	9.6	14	22	52	20	0.3	2.1	7.1	46	57	71	80
FMP459	ELYC8THS	-	0	22	6	9.6	14	22	52	20	0.3	2.1	7.1	42	53	65	80
FMP460	ELYC8THW	-	0	22	6	9.6	14	22	52	20	0.3	2.1	7.1	58	66	78	80
FMP461	ELYC10THE	-	0	20	5	11	16	24	45	27	0.2	2.3	9.2	46	56	63	80
FMP462	ELYC10THS	-	0	20	5	11	16	24	45	27	0.2	2.3	9.2	46	50	57	80
FMP463	ELYC10THW	-	0	20	5	11	16	24	45	27	0.2	2.3	9.2	58	66	78	80
FMP464	ELYC12THE	-	0	18	5	12	18	26	43	34	0.2	2.2	9.9	39	42	54	80
FMP465	ELYC12THS	-	0	18	5	12	18	26	43	34	0.2	2.2	9.9	43	52	63	80
FMP466	ELYC12THW	-	0	18	5	12	18	26	43	34	0.2	2.2	9.9	58	66	78	80
FMP467	ELYC14THE	-	0	14	6	12	20	34	44	46	4.7	10	76	43	57	73	76

ID	Name	IT Age	IT %BR	MT Age	MT cyc	MT % BR			LRT Age	LRT cyc	LRT % BR			FC Age (years)			FC % BR
						min	mid	max			min	mid	max	low	mid	high	
FMP468	ELYC14THS	-	0	14	6	12	20	34	44	46	4.7	10	76	43	52	63	76
FMP469	ELYC14THW	-	0	14	6	12	20	34	44	46	4.7	10	76	58	66	78	76
FMP470	ELYC16THE	-	0	20	5	11	16	23	45	50	1.2	2.3	9.5	43	57	73	73
FMP471	ELYC16THW	-	0	20	5	11	16	23	45	50	1.2	2.3	9.5	58	66	78	73
FMP472	ELYC18THE	-	0	19	6	10	16	25	49	49	1.4	2.3	8.1	43	57	73	73
FMP473	JLYC2THE	-	0	26	5	8.5	12	18	51	49	1.6	1.9	6.2	43	48	53	76
FMP474	JLYC2THS	-	0	26	5	8.5	12	18	51	49	1.6	1.9	6.2	39	47	52	76
FMP475	JLYC2THW	-	0	26	5	8.5	12	18	51	49	1.6	1.9	6.2	42	47	53	76
FMP476	JLYC4THE	-	0	26	5	8.5	12	18	51	49	1.6	1.9	6.2	42	45	46	76
FMP477	JLYC4THS	-	0	26	5	8.5	12	18	51	49	1.6	1.9	6.2	34	44	49	76
FMP478	JLYC4THW	-	0	26	5	8.5	12	18	51	49	1.6	1.9	6.2	42	47	53	76
FMP479	JLYC6THE	-	0	22	5	9.7	14	21	47	50	2.7	3.6	7.9	41	48	55	76

ID	Name	IT Age	IT %BR	MT Age	MT cyc	MT % BR			LRT Age	LRT cyc	LRT % BR			FC Age (years)			FC % BR
						min	mid	max			min	mid	max	low	mid	high	
FMP480	JLYC6THS	-	0	22	5	9.7	14	21	47	50	2.7	3.6	7.9	39	47	52	76
FMP481	JLYC6THW	-	0	22	5	9.7	14	21	47	50	2.7	3.6	7.9	35	43	53	76
FMP482	JLYC8THE	-	0	19	6	10	15	25	49	49	3.3	4.5	8.6	45	49	54	76
FMP483	JLYC8THS	-	0	19	6	10	15	25	49	49	3.3	4.5	8.6	42	48	52	76
FMP484	JLYC8THW	-	0	19	6	10	15	25	49	49	3.3	4.5	8.6	40	47	54	76
FMP485	JLYC10THE	-	0	17	5	12	18	28	42	45	4.2	10	76	45	49	55	76
FMP486	JLYC10THS	-	0	17	5	12	18	28	42	45	4.2	10	76	42	48	51	76
FMP487	JLYC10THW	-	0	17	5	12	18	28	42	45	4.2	10	76	46	50	56	76
FMP488	JLYC12THE	-	0	15	5	13	20	33	40	42	4.6	10	76	38	45	50	76
FMP489	JLYC12THS	-	0	15	5	13	20	33	40	42	4.6	10	76	44	48	52	76
FMP490	JLYC12THW	-	0	15	5	13	20	33	40	42	4.6	10	76	40	45	50	76
FMP491	JLYC14THE	-	0	14	6	12	20	34	44	46	4.7	10	76	42	48	53	76

ID	Name	IT Age	IT %BR	MT Age	MT cyc	MT % BR			LRT Age	LRT cyc	LRT % BR			FC Age (years)			FC % BR
						min	mid	max			min	mid	max	low	mid	high	
FMP492	JLYC14THS	-	0	14	6	12	20	34	44	46	4.7	10	76	40	48	51	76
FMP493	JLYC14THW	-	0	14	6	12	20	34	44	46	4.7	10	76	41	46	50	76
FMP494	JLYC16THE	-	0	20	5	11	16	23	45	50	1.2	2.3	9.5	43	48	53	73
FMP495	JLYC16THS	-	0	20	5	11	16	23	45	50	1.2	2.3	9.5	41	48	52	73
FMP496	JLYC16THW	-	0	20	5	11	16	23	45	50	1.2	2.3	9.5	43	44	49	73
FMP497	JLYC18THE	-	0	19	6	10	16	25	49	49	1.4	2.3	8.1	43	48	53	73
FMP498	JLYC20THE	-	0	18	6	11	17	27	48	50	1.1	2.2	8.2	43	48	53	73
FMP499	JLYC24THW	-	0	21	5	10	16	27	46	28	0.1	1.5	7.2	42	47	53	72
FMP500	DFYC2THE	-	0	40	9	4.7	8.0	14	85	8	0.3	1.8	4.2	37	43	51	67
FMP501	DFYC2THS	-	0	40	9	4.7	8.0	14	85	8	0.3	1.8	4.2	41	48	53	67
FMP502	DFYC2THW	-	0	40	9	4.7	8.0	14	85	8	0.3	1.8	4.2	40	47	53	67
FMP503	DFYC4THE	-	0	40	9	4.7	8.0	14	85	8	0.3	1.8	4.2	37	43	51	67

ID	Name	IT Age	IT %BR	MT Age	MT cyc	MT % BR			LRT Age	LRT cyc	LRT % BR			FC Age (years)			FC % BR
						min	mid	max			min	mid	max	low	mid	high	
FMP504	DFYC4THS	-	0	40	9	4.7	8.0	14	85	8	0.3	1.8	4.2	41	48	53	67
FMP505	DFYC4THW	-	0	40	9	4.7	8.0	14	85	8	0.3	1.8	4.2	40	47	53	67
FMP506	DFYC6THS	-	0	33	10	5.1	8.7	16	83	12	0.2	1.4	3.9	41	48	53	67
FMP507	DFYC6THW	-	0	33	10	5.1	8.7	16	83	12	0.2	1.4	3.9	40	47	53	67
FMP508	DFYC8THE	-	0	28	7	6.8	11	18	63	47	0.4	1.5	5.3	37	43	51	71
FMP509	DFYC8THS	-	0	28	7	6.8	11	18	63	47	0.4	1.5	5.3	44	50	51	71
FMP510	DFYC8THW	-	0	28	7	6.8	11	18	63	47	0.4	1.5	5.3	40	47	53	71
FMP511	DFYC10THE	-	0	25	6	8.0	12	20	55	48	1.0	2.1	7.1	43	48	54	71
FMP512	DFYC10THS	-	0	25	6	8.0	12	20	55	48	1.0	2.1	7.1	42	49	54	71
FMP513	DFYC10THW	-	0	25	6	8.0	12	20	55	48	1.0	2.1	7.1	46	59	62	71
FMP514	DFYC12THE	-	0	23	7	7.9	12	21	58	48	0.4	1.6	6.0	39	46	51	71
FMP515	DFYC12THS	-	0	23	7	7.9	12	21	58	48	0.4	1.6	6.0	42	47	53	71

ID	Name	IT Age	IT %BR	MT Age	MT cyc	MT % BR			LRT Age	LRT cyc	LRT % BR			FC Age (years)			FC % BR
						min	mid	max			min	mid	max	low	mid	high	
FMP516	DFYC12THW	-	0	23	7	7.9	12	21	58	48	0.4	1.6	6.0	37	49	54	71
FMP517	DFYC14THE	-	0	21	6	9.1	15	24	51	49	0.6	1.9	8.0	35	42	50	71
FMP518	DFYC14THS	-	0	21	6	9.1	15	24	51	49	0.6	1.9	8.0	43	48	52	71
FMP519	DFYC14THW	-	0	21	6	9.1	15	24	51	49	0.6	1.9	8.0	44	48	51	71
FMP520	DFYC16THE	-	0	19	7	9.0	15	28	54	48	0.3	1.6	6.9	36	41	47	71
FMP521	DFYC16THS	-	0	19	7	9.0	15	28	54	48	0.3	1.6	6.9	38	45	51	71
FMP522	DFYC16THW	-	0	19	7	9.0	15	28	54	48	0.3	1.6	6.9	39	44	49	71
FMP523	DFYC18THE	-	0	18	7	9.3	16	30	53	49	0.4	1.7	7.0	35	41	49	71
FMP524	DFYC18THS	-	0	18	7	9.3	16	30	53	49	0.4	1.7	7.0	42	48	63	71
FMP525	DFYC18THW	-	0	18	7	9.3	16	30	53	49	0.4	1.7	7.0	36	42	50	71
FMP526	DFYC20THE	-	0	17	7	9.6	17	32	52	49	0.3	1.6	7.2	35	39	57	71
FMP527	DFYC20THS	-	0	17	7	9.6	17	32	52	49	0.3	1.6	7.2	41	48	53	71

ID	Name	IT Age	IT %BR	MT Age	MT cyc	MT % BR			LRT Age	LRT cyc	LRT % BR			FC Age (years)			FC % BR
						min	mid	max			min	mid	max	low	mid	high	
FMP528	DFYC20THW	-	0	17	7	9.6	17	32	52	49	0.3	1.6	7.2	37	51	53	71
FMP529	DFYC22THE	-	0	17	6	10	18	30	47	50	0.5	1.9	8.8	34	41	45	71
FMP530	DFYC22THS	-	0	17	6	10	18	30	47	50	0.5	1.9	8.8	41	48	53	71
FMP531	DFYC22THW	-	0	17	6	10	18	30	47	50	0.5	1.9	8.8	40	46	63	71
FMP532	DFYC24THE	-	0	16	6	11	19	34	46	50	1.0	2.3	9.2	39	45	49	71
FMP533	DFYC24THS	-	0	16	6	11	19	34	46	50	1.0	2.3	9.2	44	47	46	71
FMP534	DFYC24THW	-	0	16	6	11	19	34	46	50	1.0	2.3	9.2	40	47	53	71
FMP535	DFYC26THE	-	0	20	5	10	18	30	45	32	0.1	1.4	7.6	37	43	51	72
FMP536	GFYC2THESW	-	0	40	9	4.7	8.0	14	85	8	0.3	1.8	4.2	35	42	47	67
FMP537	GFYC4THSW	-	0	40	9	4.7	8.0	14	85	8	0.3	1.8	4.2	35	42	47	67
FMP538	GFYC6THE	-	0	33	5	6.7	10	14	58	46	0.3	1.4	5.6	35	42	47	68
FMP539	GFYC8THE	-	0	29	6	6.9	11	17	59	47	0.5	1.5	5.1	35	42	47	68

ID	Name	IT Age	IT %BR	MT Age	MT cyc	MT % BR			LRT Age	LRT cyc	LRT % BR			FC Age (years)			FC % BR
						min	mid	max			min	mid	max	low	mid	high	
FMP540	GFYC10THESW	-	0	26	6	7.5	12	20	56	47	0.2	1.2	5.7	35	42	47	68
FMP541	GFYC12THESW	-	0	27	5	8.2	12	19	52	18	0.1	1.6	6.0	35	42	47	72
FMP542	GFYC14THESW	-	0	25	4	10	15	21	45	21	0.1	1.9	8.5	40	43	48	72
FMP543	GFYC16THESW	-	0	24	5	9.0	14	22	49	21	0.1	1.6	6.6	31	38	47	72
FMP544	GFYC18THESW	-	0	23	5	9.3	15	23	48	23	0.1	1.6	6.8	37	43	49	72
FMP545	GFYC20THESW	-	0	22	5	9.7	16	25	47	25	0.1	1.5	7.1	38	44	47	72
FMP546	GFYC22THESW	-	0	21	5	10	17	28	46	28	0.1	1.5	7.4	37	42	46	72
FMP547	GFYC24THESW	-	0	21	5	10	16	27	46	28	0.1	1.5	7.2	35	41	43	72
FMP548	GFYC26THESW	-	0	20	5	10	18	30	45	32	0.1	1.4	7.6	35	42	47	72
FMP549	GFYC28THESW	-	0	20	4	12	19	29	40	35	0.1	1.6	10	33	35	36	72
FMP550	GFYC30THESW	-	0	19	5	11	19	32	44	38	0.1	1.4	8.0	35	42	47	72
FMP551	NFYC2THSW	-	0	40	9	4.7	8.0	14	85	8	0.3	1.8	4.2	37	43	48	67

ID	Name	IT Age	IT %BR	MT Age	MT cyc	MT % BR			LRT Age	LRT cyc	LRT % BR			FC Age (years)			FC % BR
						min	mid	max			min	mid	max	low	mid	high	
FMP552	NFYC4THSW	-	0	40	9	4.7	8.0	14	85	8	0.3	1.8	4.2	37	43	48	67
FMP553	NFYC6THSW	-	0	33	5	6.7	10	14	58	46	0.3	1.4	5.6	37	43	48	68
FMP554	NFYC8THESW	-	0	29	6	6.9	11	17	59	47	0.5	1.5	5.1	37	43	48	68
FMP555	NFYC10THESW	-	0	34	7	5.9	8.0	12	69	45	0.8	1.8	4.7	35	39	45	70
FMP556	NFYC12THESW	-	0	31	7	6.3	8.9	13	66	46	1.8	2.4	4.8	35	40	45	70
FMP557	NFYC14THESW	-	0	29	7	6.7	10	15	64	46	1.9	2.5	5.4	36	42	48	70
FMP558	NFYC16THESW	-	0	27	7	7.1	10	16	62	47	1.8	2.6	5.7	39	44	49	70
FMP559	NFYC18THESW	-	0	25	7	7.5	11	18	60	47	2.5	3.0	6.1	38	42	46	70
FMP560	NFYC20THESW	-	0	23	7	8.0	13	21	58	48	2.6	3.2	6.8	37	45	48	70
FMP561	NFYC22THESW	-	0	22	7	8.2	13	22	57	48	1.9	2.9	7.0	38	42	47	70
FMP562	NFYC24THSW	-	0	21	5	10	16	27	46	28	0.1	1.5	7.2	37	43	48	72
FMP563	WHYC2THESW	-	0	40	9	4.7	8.0	14	85	8	0.3	1.8	4.2	38	43	49	67

ID	Name	IT Age	IT %BR	MT Age	MT cyc	MT % BR			LRT Age	LRT cyc	LRT % BR			FC Age (years)			FC % BR
						min	mid	max			min	mid	max	low	mid	high	
FMP564	WHYC4THESW	-	0	40	9	4.7	8.0	14	85	8	0.3	1.8	4.2	38	43	49	67
FMP565	WHYC6THESW	-	0	33	5	6.7	10	14	58	46	0.3	1.4	5.6	38	43	49	68
FMP566	WHYC8THES	-	0	29	6	6.9	11	17	59	47	0.5	1.5	5.1	38	43	49	68
FMP567	WHYC10THESW	-	0	26	6	7.5	12	20	56	47	0.2	1.2	5.7	43	51	61	68
FMP568	WHYC12THESW	-	0	28	8	7.1	12	23	68	46	1.1	2.4	6.0	41	46	52	76
FMP569	WHYC14THESW	-	0	26	7	7.9	13	23	61	47	3.1	3.6	6.9	40	45	50	76
FMP570	WHYC16THESW	-	0	24	8	7.7	13	23	64	46	1.4	2.7	6.4	39	43	49	76
FMP571	WHYC18THESW	-	0	22	7	8.8	14	26	57	48	1.1	2.6	7.6	37	43	48	76
FMP572	WHYC20THESW	-	0	21	6	9.7	15	25	51	49	2.2	3.3	8.8	36	40	45	76
FMP573	WHYC22THESW	-	0	20	6	10	16	25	50	49	1.9	3.3	8.8	37	41	48	76
FMP574	WHYC24THESW	-	0	19	6	10	16	26	49	49	1.4	3.0	8.9	36	41	49	76
FMP575	WHYC26THSW	-	0	20	5	10	18	30	45	32	0.1	1.4	7.6	38	43	49	72

ID	Name	IT Age	IT %BR	MT Age	MT cyc	MT % BR			LRT Age	LRT cyc	LRT % BR			FC Age (years)			FC % BR
						min	mid	max			min	mid	max	low	mid	high	
FMP576	RCYC2THEW	-	0	40	9	4.7	8.0	14	85	8	0.3	1.8	4.2	43	43	44	67
FMP577	RCYC4THEW	-	0	40	9	4.7	8.0	14	85	8	0.3	1.8	4.2	38	44	54	67
FMP578	RCYC6THESW	-	0	33	5	6.7	10	14	58	46	0.3	1.4	5.6	38	44	54	68
FMP579	RCYC8THESW	-	0	29	6	6.9	11	17	59	47	0.5	1.5	5.1	38	44	54	68
FMP580	RCYC10THESW	-	0	26	6	7.5	12	20	56	47	0.2	1.2	5.7	46	52	64	68
FMP581	RCYC12THESW	-	0	30	7	6.4	9.5	15	65	46	1.1	1.9	4.8	44	52	58	67
FMP582	RCYC14THESW	-	0	28	7	6.7	10	16	63	47	0.4	1.5	5.4	39	47	57	67
FMP583	RCYC16THESW	-	0	26	7	7.1	11	18	61	47	0.6	1.8	5.9	38	40	44	67
FMP584	RCYC18THESW	-	0	24	7	7.6	12	20	59	47	0.7	2.0	6.1	36	45	54	67
FMP585	RCYC20THESW	-	0	23	7	7.8	12	21	58	48	0.7	2.0	6.2	35	38	45	67
FMP586	RCYC22THESW	-	0	22	6	8.7	13	22	52	49	1.1	2.3	7.5	36	42	49	67
FMP587	RCYC24THESW	-	0	21	6	9.0	14	23	51	49	1.0	2.3	7.6	36	38	43	67

Public forest estate (England, Scotland and Wales): Forest Management Practices involving “continuous cover”, i.e. continuous thinning and forest regeneration without clearcutting

Forest management practice		Silvicultural operations without final harvesting		
Index	Name of practice	% biomass removals		
		Min	Mean	Max
FMP588	NSYC2CCESW	3.2	9.6	62
FMP589	NSYC4CCESW	3.2	9.6	62
FMP590	NSYC6CCESW	4.5	8.9	27
FMP591	NSYC8CCESW	4.8	8.7	19
FMP592	NSYC10CCESW	5.2	9.2	18
FMP593	NSYC12CCESW	5.4	9.3	15
FMP594	NSYC14CCESW	5.7	9.9	17
FMP595	NSYC16CCESW	5.9	10	16
FMP596	NSYC18CCESW	6.2	10	15
FMP597	NSYC20CCESW	3.5	11	16
FMP598	NSYC22CCESW	3.7	11	16
FMP599	NSYC24CCESW	0.4	11	15
FMP600	NSYC26CCS	7.6	12	12
FMP601	NSYC30CCE	7.8	12	15
FMP602	SSYC2CCESW	4.3	9.8	55
FMP603	SSYC4CCESW	4.3	9.8	55
FMP604	SSYC6CCESW	5.3	9.4	18
FMP605	SSYC8CCESW	5.8	10	16
FMP606	SSYC10CCESW	6.3	10	15
FMP607	SSYC12CCESW	6.7	11	17
FMP608	SSYC14CCESW	7.1	11	15
FMP609	SSYC16CCESW	1.7	12	16
FMP610	SSYC18CCESW	5.4	12	14
FMP611	SSYC20CCESW	8.0	12	14
FMP612	SSYC22CCESW	5.7	12	15
FMP613	SSYC24CCESW	8.4	12	13
FMP614	SSYC26CCES	7.8	12	13
FMP615	SSYC28CCE	7.9	12	13
FMP616	SPYC2CCESW	3.2	9.8	63

Forest management practice		Silvicultural operations without final harvesting		
Index	Name of practice	% biomass removals		
		Min	Mean	Max
FMP617	SPYC4CCESW	3.2	9.8	63
FMP618	SPYC6CCESW	4.8	9.1	20
FMP619	SPYC8CCESW	5.3	9.3	15
FMP620	SPYC10CCESW	5.7	9.8	13
FMP621	SPYC12CCESW	0.5	10	17
FMP622	SPYC14CCESW	2.9	10	15
FMP623	SPYC16CCESW	7.4	11	12
FMP624	SPYC18CCES	4.0	11	15
FMP625	SPYC20CCW	7.9	12	13
FMP626	CPYC2CCESW	3.5	11	68
FMP627	CPYC4CCESW	3.5	11	68
FMP628	CPYC6CCESW	5.7	9.4	16
FMP629	CPYC8CCESW	6.4	9.8	13
FMP630	CPYC10CCESW	6.9	10	12
FMP631	CPYC12CCESW	7.4	11	14
FMP632	CPYC14CCESW	1.0	11	15
FMP633	CPYC16CCESW	8.1	12	13
FMP634	CPYC18CCESW	4.4	12	17
FMP635	CPYC20CCEW	8.6	13	14
FMP636	CPYC22CCEW	3.4	13	16
FMP637	CPYC24CCE	0.4	13	17
FMP638	LPYC2CCSW	4.2	7.5	22
FMP639	LPYC4CCESW	4.2	7.5	22
FMP640	LPYC6CCESW	1.4	8.1	15
FMP641	LPYC8CCESW	5.3	8.6	12
FMP642	LPYC10CCESW	6.2	9.1	12
FMP643	LPYC12CCESW	6.7	9.6	11
FMP644	LPYC14CCESW	5.7	10	14
FMP645	LPYC16CCEW	7.4	11	12
FMP646	LPYC18CCE	4.0	11	15
FMP647	LPYC20CCEW	7.9	12	13
FMP648	ELYC2CCESW	4.2	11	18
FMP649	ELYC4CCESW	4.2	11	18
FMP650	ELYC6CCESW	7.7	11	14
FMP651	ELYC8CCESW	4.3	12	16
FMP652	ELYC10CCESW	9.2	13	13

Forest management practice		Silvicultural operations without final harvesting		
Index	Name of practice	% biomass removals		
		Min	Mean	Max
FMP653	ELYC12CCESW	4.3	13	16
FMP654	ELYC14CCESW	11	16	16
FMP655	ELYC16CCESW	5.0	13	16
FMP656	ELYC18CCES	9.2	13	14
FMP657	JLYC2CCESW	7.3	11	13
FMP658	JLYC4CCESW	7.3	11	13
FMP659	JLYC6CCESW	4.3	12	14
FMP660	JLYC8CCESW	9.1	13	15
FMP661	JLYC10CCESW	2.0	13	15
FMP662	JLYC12CCESW	10	14	13
FMP663	JLYC14CCESW	11	15	15
FMP664	JLYC16CCESW	4.8	12	15
FMP665	JLYC18CCES	8.8	13	13
FMP666	JLYC20CCES	9.0	13	16
FMP667	JLYC24CCW	0.4	13	17
FMP668	DFYC2CCESW	4.5	10	57
FMP669	DFYC4CCESW	4.5	10	57
FMP670	DFYC6CCESW	5.3	10	25
FMP671	DFYC8CCESW	6.1	9.9	15
FMP672	DFYC10CCESW	6.6	10	14
FMP673	DFYC12CCESW	6.9	11	14
FMP674	DFYC14CCESW	1.0	11	15
FMP675	DFYC16CCESW	7.7	12	16
FMP676	DFYC18CCESW	2.1	12	17
FMP677	DFYC20CCESW	8.3	13	15
FMP678	DFYC22CCESW	3.2	13	16
FMP679	DFYC24CCESW	8.8	13	14
FMP680	DFYC26CCES	8.1	12	13
FMP681	GFYC2CCESW	4.6	10	58
FMP682	GFYC4CCEW	4.6	10	58
FMP683	GFYC6CCS	5.6	10	20
FMP684	GFYC8CCES	6.1	11	17
FMP685	GFYC10CCESW	6.6	11	16
FMP686	GFYC12CCESW	6.7	11	15
FMP687	GFYC14CCESW	2.9	11	16
FMP688	GFYC16CCESW	7.3	12	15

Forest management practice		Silvicultural operations without final harvesting		
Index	Name of practice	% biomass removals		
		Min	Mean	Max
FMP689	GFYC18CCESW	7.5	12	16
FMP690	GFYC20CCESW	6.5	12	16
FMP691	GFYC22CCESW	3.4	12	16
FMP692	GFYC24CCESW	0.4	12	16
FMP693	GFYC26CCESW	8.2	13	13
FMP694	GFYC28CCESW	8.3	13	13
FMP695	GFYC30CCEW	8.5	13	16
FMP696	NFYC2CCESW	3.4	10	66
FMP697	NFYC4CCESW	3.4	10	66
FMP698	NFYC6CCES	5.5	9.7	19
FMP699	NFYC8CCESW	6.0	10	17
FMP700	NFYC10CCES	5.0	8.2	16
FMP701	NFYC12CCESW	5.4	8.5	15
FMP702	NFYC14CCESW	5.6	8.8	14
FMP703	NFYC16CCESW	5.9	9.1	13
FMP704	NFYC18CCESW	4.4	9.6	14
FMP705	NFYC20CCESW	6.5	10	14
FMP706	NFYC22CCESW	6.6	10	14
FMP707	NFYC24CCSW	0.4	12	16
FMP708	WHYC2CCESW	3.7	11	71
FMP709	WHYC4CCES	3.7	11	71
FMP710	WHYC6CCESW	5.9	10	21
FMP711	WHYC8CCESW	6.5	11	18
FMP712	WHYC10CCESW	7.0	12	17
FMP713	WHYC12CCESW	5.6	9.7	20
FMP714	WHYC14CCESW	2.8	10	18
FMP715	WHYC16CCESW	6.4	10	18
FMP716	WHYC18CCESW	6.0	11	17
FMP717	WHYC20CCESW	7.3	11	14
FMP718	WHYC22CCEW	4.9	11	14
FMP719	WHYC24CCEW	3.4	12	17
FMP720	WHYC26CCW	8.7	13	14
FMP721	RCYC2CCESW	5.5	8.9	6.9
FMP722	RCYC4CCESW	5.5	8.9	6.9
FMP723	RCYC6CCESW	5.5	8.9	6.9
FMP724	RCYC8CCESW	5.5	8.9	16

Forest management practice		Silvicultural operations without final harvesting		
Index	Name of practice	% biomass removals		
		Min	Mean	Max
FMP725	RCYC10CCESW	5.5	8.9	16
FMP726	RCYC12CCESW	5.5	8.9	16
FMP727	RCYC14CCESW	5.8	9.1	14
FMP728	RCYC16CCESW	6.1	9.4	13
FMP729	RCYC18CCESW	0.8	10	18
FMP730	RCYC20CCEW	0.8	10	17
FMP731	RCYC22CCEW	0.2	11	16
FMP732	RCYC24CCEW	4.6	11	14
FMP733	OKYC2CCESW	4.6	8.1	21
FMP734	OKYC4CCESW	4.6	8.1	21
FMP735	OKYC6CCESW	5.4	8.5	14
FMP736	OKYC8CCESW	6.1	9.4	14
FMP737	OKYC10CCESW	6.2	11	15
FMP738	OKYC12CCESW	0.5	11	19
FMP739	OKYC14CCESW	3.1	11	16
FMP740	OKYC16CCESW	6.5	11	17
FMP741	OKYC20CCW	3.8	12	18
FMP742	AHYC2CCESW	7.6	11	17
FMP743	AHYC4CCESW	7.6	11	17
FMP744	AHYC6CCESW	8.2	12	12
FMP745	AHYC8CCESW	7.4	13	25
FMP746	AHYC10CCESW	8.9	13	24
FMP747	AHYC12CCESW	11	15	35
FMP748	AHYC14CCEW	3.1	11	16
FMP749	AHYC16CCES	6.3	11	17
FMP750	AHYC18CCW	6.6	11	16
FMP751	AHYC20CCSW	3.7	11	17
FMP752	BEYC2CCESW	4.0	8.2	33
FMP753	BEYC4CCESW	4.0	8.2	33
FMP754	BEYC6CCESW	4.5	8.1	20
FMP755	BEYC8CCESW	5.0	8.5	16
FMP756	BEYC10CCESW	5.4	8.8	18
FMP757	BEYC12CCESW	0.5	11	19
FMP758	BEYC14CCES	3.1	11	16
FMP759	BEYC16CCW	6.4	11	17
FMP760	BEYC18CCS	6.7	11	16

Forest management practice		Silvicultural operations without final harvesting		
Index	Name of practice	% biomass removals		
		Min	Mean	Max
FMP761	BIYC2CCESW	7.6	11	17
FMP762	BIYC4CCESW	7.6	11	17
FMP763	BIYC6CCESW	8.2	12	12
FMP764	BIYC8CCESW	7.4	13	25
FMP765	BIYC10CCESW	8.9	13	24
FMP766	BIYC12CCESW	11	15	35
FMP767	BIYC14CCESW	3.1	11	16
FMP768	BIYC16CCESW	6.3	11	17
FMP769	BIYC18CCESW	6.6	11	16
FMP770	BIYC20CCW	3.7	11	17
FMP771	BIYC22CCS	3.9	12	17
FMP772	SYYC2CCESW	7.3	11	17
FMP773	SYYC4CCESW	7.3	11	17
FMP774	SYYC6CCESW	7.9	12	12
FMP775	SYYC8CCESW	7.1	12	24
FMP776	SYYC10CCESW	8.6	12	23
FMP777	SYYC12CCESW	10	14	34
FMP778	SYYC14CCESW	2.9	11	15
FMP779	SYYC16CCESW	6.1	10	16
FMP780	SYYC18CCESW	6.4	11	15
FMP781	SYYC20CCESW	3.6	11	17
FMP782	SYYC22CCE	3.8	11	16
FMP783	SYYC24CCSW	0.4	12	16
FMP784	POYC2CCESW	7.1	10	16
FMP785	POYC4CCESW	7.1	10	16
FMP786	POYC6CCESW	7.7	12	11
FMP787	POYC8CCESW	6.9	12	23
FMP788	POYC10CCESW	8.4	12	23
FMP789	POYC12CCESW	9.9	14	33
FMP790	POYC14CCESW	7.1	11	16
FMP791	POYC16CCE	6.1	9.6	17
FMP792	POYC24CCE	0.4	11	15
FMP793	NOYC2CCES	7.5	11	17
FMP794	NOYC4CCESW	7.5	11	17
FMP795	NOYC6CCESW	8.1	12	12
FMP796	NOYC8CCESW	7.3	12	24

Forest management practice		Silvicultural operations without final harvesting		
Index	Name of practice	% biomass removals		
		Min	Mean	Max
FMP797	NOYC10CCESW	8.6	11	12
FMP798	NOYC12CCESW	9.5	12	11
FMP799	NOYC14CCESW	6.9	13	13
FMP800	NOYC16CCEW	9.0	14	12
FMP801	NOYC18CCESW	2.9	15	13

Private forest estate (England, Scotland and Wales): Forest Management Practices involving clearcutting with no thinning during the rotation

Note that up to four rotations are assigned for each FMP. Proportions of forest area within a stratum are assigned to each of the rotations.

Forest management practice		Silvicultural operations with final harvesting – No thinning										
Index	Name of practice	Final cutting										
		Rotation 1		Rotation 2		Rotation 3		Rotation 4		% biomass removals		
		Age (years)	%	Age (years)	%	Age (years)	%	Age (years)	%			
FMP802	NSYC4NTW	60	100%	-	-	-	-	-	-	67		
FMP803	NSYC6NTE	64	100%	-	-	-	-	-	-	66		
FMP804	NSYC6NTS	57	100%	-	-	-	-	-	-	66		
FMP805	NSYC6NTW	60	100%	-	-	-	-	-	-	66		
FMP806	NSYC8NTE	60	100%	-	-	-	-	-	-	66		
FMP807	NSYC8NTS	53	100%	-	-	-	-	-	-	66		
FMP808	NSYC8NTW	56	100%	-	-	-	-	-	-	66		
FMP809	NSYC10NTE	63	100%	-	-	-	-	-	-	66		
FMP810	NSYC10NTS	50	100%	-	-	-	-	-	-	66		
FMP811	NSYC12NTE	58	100%	-	-	-	-	-	-	66		
FMP812	NSYC12NTS	46	100%	-	-	-	-	-	-	66		
FMP813	NSYC14NTE	49	100%	-	-	-	-	-	-	66		
FMP814	NSYC14NTS	44	100%	-	-	-	-	-	-	66		
FMP815	NSYC16NTE	47	100%	-	-	-	-	-	-	66		

Forest management practice		Silvicultural operations with final harvesting – No thinning									
Index	Name of practice	Final cutting									
		Rotation 1		Rotation 2		Rotation 3		Rotation 4		% biomass removals	
		Age (years)	%	Age (years)	%	Age (years)	%	Age (years)	%		
FMP816	NSYC16NTS	41	100%	-	-	-	-	-	-	-	66
FMP817	NSYC18NTE	45	100%	-	-	-	-	-	-	-	66
FMP818	NSYC18NTS	40	100%	-	-	-	-	-	-	-	66
FMP819	NSYC20NTE	42	100%	-	-	-	-	-	-	-	66
FMP820	NSYC20NTS	39	100%	-	-	-	-	-	-	-	66
FMP821	NSYC22NTE	40	100%	-	-	-	-	-	-	-	66
FMP822	NSYC22NTS	39	100%	-	-	-	-	-	-	-	66
FMP823	SSYC6NTE	41	25%	46	50%	51	25%	-	-	-	68
FMP824	SSYC6NTS	50	25%	55	25%	60	25%	65	25%	68	
FMP825	SSYC6NTW	47	25%	52	25%	57	25%	62	25%	68	
FMP826	SSYC8NTE	41	25%	46	50%	51	25%	-	-	-	68
FMP827	SSYC8NTS	46	25%	51	25%	56	25%	61	25%	68	
FMP828	SSYC8NTW	45	25%	50	25%	55	25%	60	25%	68	
FMP829	SSYC10NTE	48	25%	53	50%	58	25%	-	-	-	68
FMP830	SSYC10NTSW	43	25%	48	25%	53	25%	58	25%	68	
FMP831	SSYC12NTE	45	25%	50	50%	55	25%	-	-	-	68
FMP832	SSYC12NTS	40	25%	45	25%	50	25%	55	25%	68	
FMP833	SSYC12NTW	41	25%	47	25%	51	25%	57	25%	68	
FMP834	SSYC14NTE	40	25%	45	50%	50	25%	-	-	-	68
FMP835	SSYC14NTS	36	25%	41	25%	46	25%	51	25%	68	

Forest management practice		Silvicultural operations with final harvesting – No thinning									
Index	Name of practice	Final cutting									
		Rotation 1		Rotation 2		Rotation 3		Rotation 4		% biomass removals	
		Age (years)	%	Age (years)	%	Age (years)	%	Age (years)	%		
FMP836	SSYC14NTW	39	25%	44	25%	49	25%	54	25%	68	
FMP837	SSYC16NTE	39	25%	44	50%	49	25%	-	-	68	
FMP838	SSYC16NTS	33	25%	38	25%	43	25%	48	25%	68	
FMP839	SSYC16NTW	37	25%	42	25%	47	25%	52	25%	68	
FMP840	SSYC18NTE	39	25%	44	50%	49	25%	-	-	68	
FMP841	SSYC18NTS	30	25%	35	25%	40	25%	45	25%	68	
FMP842	SSYC18NTW	34	25%	39	25%	44	25%	49	25%	68	
FMP843	SSYC20NTE	40	25%	45	50%	50	25%	-	-	68	
FMP844	SSYC20NTS	29	25%	34	25%	39	25%	44	25%	68	
FMP845	SSYC20NTW	33	25%	38	25%	43	25%	48	25%	68	
FMP846	SSYC22NTE	34	25%	39	50%	44	25%	-	-	68	
FMP847	SSYC22NTS	28	25%	33	25%	38	25%	43	25%	68	
FMP848	SSYC22NTW	32	25%	37	25%	42	25%	47	25%	68	
FMP849	SSYC24NTE	40	25%	45	50%	50	25%	-	-	68	
FMP850	SSYC24NTSW	29	25%	34	25%	39	25%	44	25%	68	
FMP851	SSYC26NTE	40	25%	45	50%	50	25%	-	-	72	
FMP852	SSYC26NTSW	29	25%	34	25%	39	25%	44	25%	72	
FMP853	SSYC28NTE	40	25%	45	50%	50	25%	-	-	72	
FMP854	SSYC28NTS	29	25%	34	25%	39	25%	44	25%	72	
FMP855	SSYC30NTS	29	25%	34	25%	39	25%	44	25%	72	

Forest management practice		Silvicultural operations with final harvesting – No thinning									
Index	Name of practice	Final cutting									
		Rotation 1		Rotation 2		Rotation 3		Rotation 4		% biomass removals	
		Age (years)	%	Age (years)	%	Age (years)	%	Age (years)	%		
FMP856	SPYC4NTE	78	50%	98	50%	-	-	-	-	-	67
FMP857	SPYC4NTS	82	25%	87	25%	92	25%	97	25%	-	67
FMP858	SPYC4NTW	80	100%	-	-	-	-	-	-	-	67
FMP859	SPYC6NTE	68	50%	88	50%	-	-	-	-	-	67
FMP860	SPYC6NTS	77	25%	82	25%	87	25%	92	25%	-	67
FMP861	SPYC6NTW	74	100%	-	-	-	-	-	-	-	67
FMP862	SPYC8NTE	58	50%	78	50%	-	-	-	-	-	67
FMP863	SPYC8NTS	67	25%	72	25%	77	25%	82	25%	-	67
FMP864	SPYC8NTW	70	100%	-	-	-	-	-	-	-	67
FMP865	SPYC10NTE	57	50%	77	50%	-	-	-	-	-	67
FMP866	SPYC10NTS	59	25%	64	25%	69	25%	74	25%	-	67
FMP867	SPYC10NTW	66	100%	-	-	-	-	-	-	-	67
FMP868	SPYC12NTE	51	50%	71	50%					-	67
FMP869	SPYC12NTS	59	25%	64	25%	69	25%	74	25%	-	67
FMP870	SPYC12NTW	64	100%	-	-	-	-	-	-	-	67
FMP871	SPYC14NTE	48	50%	68	50%	-	-	-	-	-	67
FMP872	SPYC14NTS	55	25%	60	25%	65	25%	70	25%	-	67
FMP873	SPYC14NTW	62	100%	-	-	-	-	-	-	-	67
FMP874	SPYC16NTW	62	100%	-	-	-	-	-	-	-	73
FMP875	SPYC20NTW	62	100%	-	-	-	-	-	-	-	73

Forest management practice		Silvicultural operations with final harvesting – No thinning									
Index	Name of practice	Final cutting									
		Rotation 1		Rotation 2		Rotation 3		Rotation 4		% biomass removals	
		Age (years)	%	Age (years)	%	Age (years)	%	Age (years)	%		
FMP876	CPYC4NTS	67	100%	-	-	-	-	-	-	-	67
FMP877	CPYC6NTS	67	100%	-	-	-	-	-	-	-	73
FMP878	CPYC8NTS	67	100%	-	-	-	-	-	-	-	73
FMP879	CPYC10NTS	67	100%	-	-	-	-	-	-	-	73
FMP880	CPYC12NTS	67	100%	-	-	-	-	-	-	-	73
FMP881	CPYC14NTS	67	100%	-	-	-	-	-	-	-	73
FMP882	LPYC4NTE	44	100%	-	-	-	-	-	-	-	67
FMP883	LPYC4NTS	56	100%	-	-	-	-	-	-	-	67
FMP884	LPYC4NTW	45	100%	-	-	-	-	-	-	-	67
FMP885	LPYC6NTE	35	100%	-	-	-	-	-	-	-	67
FMP886	LPYC6NTS	52	100%	-	-	-	-	-	-	-	67
FMP887	LPYC6NTW	45	100%	-	-	-	-	-	-	-	67
FMP888	LPYC8NTE	34	100%	-	-	-	-	-	-	-	67
FMP889	LPYC8NTS	51	100%	-	-	-	-	-	-	-	67
FMP890	LPYC8NTW	45	100%	-	-	-	-	-	-	-	67
FMP891	LPYC10NTE	34	100%	-	-	-	-	-	-	-	67
FMP892	LPYC10NTS	48	100%	-	-	-	-	-	-	-	67
FMP893	LPYC10NTW	45	100%	-	-	-	-	-	-	-	67
FMP894	LPYC12NTE	36	100%	-	-	-	-	-	-	-	67
FMP895	LPYC12NTS	47	100%	-	-	-	-	-	-	-	67

Forest management practice		Silvicultural operations with final harvesting – No thinning									
Index	Name of practice	Final cutting									
		Rotation 1		Rotation 2		Rotation 3		Rotation 4		% biomass removals	
		Age (years)	%	Age (years)	%	Age (years)	%	Age (years)	%		
FMP896	LPYC12NTW	45	100%	-	-	-	-	-	-	-	67
FMP897	LPYC14NTE	36	100%	-	-	-	-	-	-	-	67
FMP898	LPYC14NTSW	45	100%	-	-	-	-	-	-	-	67
FMP899	LPYC16NTE	29	100%	-	-	-	-	-	-	-	73
FMP900	LPYC16NTW	45	100%	-	-	-	-	-	-	-	73
FMP901	LPYC18NTE	29	100%	-	-	-	-	-	-	-	73
FMP902	LPYC20NTE	29	100%	-	-	-	-	-	-	-	73
FMP903	LPYC20NTSW	45	100%	-	-	-	-	-	-	-	73
FMP904	ELYC2NTE	40	100%	-	-	-	-	-	-	-	80
FMP905	ELYC2NTS	79	100%	-	-	-	-	-	-	-	80
FMP906	ELYC4NTE	55	100%	-	-	-	-	-	-	-	80
FMP907	ELYC4NTS	79	100%	-	-	-	-	-	-	-	80
FMP908	ELYC4NTW	52	100%	-	-	-	-	-	-	-	80
FMP909	ELYC6NTE	57	100%	-	-	-	-	-	-	-	80
FMP910	ELYC6NTS	71	100%	-	-	-	-	-	-	-	80
FMP911	ELYC6NTW	50	100%	-	-	-	-	-	-	-	80
FMP912	ELYC8NTE	56	100%	-	-	-	-	-	-	-	80
FMP913	ELYC8NTS	68	100%	-	-	-	-	-	-	-	80
FMP914	ELYC8NTW	47	100%	-	-	-	-	-	-	-	80
FMP915	ELYC10NTE	55	100%	-	-	-	-	-	-	-	80

Forest management practice		Silvicultural operations with final harvesting – No thinning									
Index	Name of practice	Final cutting									
		Rotation 1		Rotation 2		Rotation 3		Rotation 4		% biomass removals	
		Age (years)	%	Age (years)	%	Age (years)	%	Age (years)	%		
FMP916	ELYC10NTS	68	100%	-	-	-	-	-	-	-	80
FMP917	ELYC10NTW	42	100%	-	-	-	-	-	-	-	80
FMP918	ELYC12NTE	52	100%	-	-	-	-	-	-	-	80
FMP919	ELYC12NTS	64	100%	-	-	-	-	-	-	-	80
FMP920	ELYC12NTW	38	100%	-	-	-	-	-	-	-	80
FMP921	ELYC14NTE	61	100%	-	-	-	-	-	-	-	76
FMP922	ELYC14NTS	64	100%	-	-	-	-	-	-	-	76
FMP923	ELYC14NTW	38	100%	-	-	-	-	-	-	-	76
FMP924	JLYC2NTE	54	50%	59	25%	64	25%	-	-	-	76
FMP925	JLYC2NTS	64	75%	84	25%	-	-	-	-	-	76
FMP926	JLYC4NTE	54	50%	59	25%	64	25%	-	-	-	76
FMP927	JLYC4NTS	64	75%	84	25%	-	-	-	-	-	76
FMP928	JLYC4NTW	57	100%	-	-	-	-	-	-	-	76
FMP929	JLYC6NTE	48	50%	53	25%	58	25%	-	-	-	76
FMP930	JLYC6NTS	58	75%	78	25%	-	-	-	-	-	76
FMP931	JLYC6NTW	51	100%	-	-	-	-	-	-	-	76
FMP932	JLYC8NTE	42	50%	47	25%	52	25%	-	-	-	76
FMP933	JLYC8NTS	53	75%	73	25%	-	-	-	-	-	76
FMP934	JLYC8NTW	45	100%	-	-	-	-	-	-	-	76
FMP935	JLYC10NTE	53	50%	58	25%	63	25%	-	-	-	76

Forest management practice		Silvicultural operations with final harvesting – No thinning									
Index	Name of practice	Final cutting									
		Rotation 1		Rotation 2		Rotation 3		Rotation 4		% biomass removals	
		Age (years)	%	Age (years)	%	Age (years)	%	Age (years)	%		
FMP936	JLYC10NTS	50	75%	70	25%	-	-	-	-	-	76
FMP937	JLYC10NTW	41	100%	-	-	-	-	-	-	-	76
FMP938	JLYC12NTE	51	50%	56	25%	61	25%	-	-	-	76
FMP939	JLYC12NTS	46	75%	66	25%	-	-	-	-	-	76
FMP940	JLYC12NTW	39	100%	-	-	-	-	-	-	-	76
FMP941	JLYC14NTE	49	50%	54	25%	59	25%	-	-	-	76
FMP942	JLYC14NTS	41	75%	61	25%	-	-	-	-	-	76
FMP943	JLYC14NTW	39	100%	-	-	-	-	-	-	-	76
FMP944	DFYC4NTW	58	100%	-	-	-	-	-	-	-	67
FMP945	DFYC6NTS	69	100%	-	-	-	-	-	-	-	67
FMP946	DFYC6NTW	58	100%	-	-	-	-	-	-	-	67
FMP947	DFYC8NTE	76	25%	81	50%	86	25%	-	-	-	71
FMP948	DFYC8NTS	69	100%	-	-	-	-	-	-	-	71
FMP949	DFYC8NTW	58	100%	-	-	-	-	-	-	-	71
FMP950	DFYC10NTE	70	25%	75	50%	80	25%	-	-	-	71
FMP951	DFYC10NTS	64	100%	-	-	-	-	-	-	-	71
FMP952	DFYC10NTW	58	100%	-	-	-	-	-	-	-	71
FMP953	DFYC12NTE	67	25%	72	50%	77	25%	-	-	-	71
FMP954	DFYC12NTS	68	100%	-	-	-	-	-	-	-	71
FMP955	DFYC12NTW	56	100%	-	-	-	-	-	-	-	71

Forest management practice		Silvicultural operations with final harvesting – No thinning									
Index	Name of practice	Final cutting									
		Rotation 1		Rotation 2		Rotation 3		Rotation 4		% biomass removals	
		Age (years)	%	Age (years)	%	Age (years)	%	Age (years)	%		
FMP956	DFYC14NTE	66	25%	71	50%	76	25%	-	-	71	
FMP957	DFYC14NTS	70	100%	-	-	-	-	-	-	71	
FMP958	DFYC14NTW	55	100%	-	-	-	-	-	-	71	
FMP959	DFYC16NTE	63	25%	68	50%	73	25%	-	-	71	
FMP960	DFYC16NTS	58	100%	-	-	-	-	-	-	71	
FMP961	DFYC16NTW	62	100%	-	-	-	-	-	-	71	
FMP962	DFYC18NTE	62	25%	67	50%	72	25%	-	-	71	
FMP963	DFYC18NTS	56	100%	-	-	-	-	-	-	71	
FMP964	DFYC20NTE	60	25%	65	50%	70	25%	-	-	71	
FMP965	DFYC20NTS	54	100%	-	-	-	-	-	-	71	
FMP966	DFYC22NTE	57	25%	62	50%	67	25%	-	-	71	
FMP967	DFYC22NTS	54	100%	-	-	-	-	-	-	71	
FMP968	DFYC24NTE	56	25%	61	50%	66	25%	-	-	71	
FMP969	DFYC24NTS	51	100%	-	-	-	-	-	-	71	
FMP970	DFYC26NTE	56	25%	61	50%	66	25%	-	-	72	
FMP971	DFYC26NTS	51	100%	-	-	-	-	-	-	72	
FMP972	GFYC4NTW	66	100%	-	-	-	-	-	-	67	
FMP973	GFYC6NTS	53	100%	-	-	-	-	-	-	67	
FMP974	GFYC8NTE	51	100%	-	-	-	-	-	-	68	
FMP975	GFYC8NTS	53	100%	-	-	-	-	-	-	68	

Forest management practice		Silvicultural operations with final harvesting – No thinning									
Index	Name of practice	Final cutting									
		Rotation 1		Rotation 2		Rotation 3		Rotation 4		% biomass removals	
		Age (years)	%	Age (years)	%	Age (years)	%	Age (years)	%		
FMP976	GFYC10NTE	45	100%	-	-	-	-	-	-	-	68
FMP977	GFYC10NTS	53	100%	-	-	-	-	-	-	-	68
FMP978	GFYC10NTW	59	100%	-	-	-	-	-	-	-	68
FMP979	GFYC12NTE	42	100%	-	-	-	-	-	-	-	72
FMP980	GFYC12NTS	53	100%	-	-	-	-	-	-	-	72
FMP981	GFYC12NTW	57	100%	-	-	-	-	-	-	-	72
FMP982	GFYC14NTE	41	100%	-	-	-	-	-	-	-	72
FMP983	GFYC14NTSW	55	100%	-	-	-	-	-	-	-	72
FMP984	GFYC16NTE	41	100%	-	-	-	-	-	-	-	72
FMP985	GFYC16NTS	55	100%	-	-	-	-	-	-	-	72
FMP986	GFYC16NTW	53	100%	-	-	-	-	-	-	-	72
FMP987	GFYC18NTE	39	100%	-	-	-	-	-	-	-	72
FMP988	GFYC18NTS	55	100%	-	-	-	-	-	-	-	72
FMP989	GFYC18NTW	50	100%	-	-	-	-	-	-	-	72
FMP990	GFYC20NTE	35	100%	-	-	-	-	-	-	-	72
FMP991	GFYC20NTS	55	100%	-	-	-	-	-	-	-	72
FMP992	GFYC20NTW	48	100%	-	-	-	-	-	-	-	72
FMP993	GFYC22NTE	34	100%	-	-	-	-	-	-	-	72
FMP994	GFYC22NTS	55	100%	-	-	-	-	-	-	-	72
FMP995	GFYC22NTW	48	100%	-	-	-	-	-	-	-	72

Forest management practice		Silvicultural operations with final harvesting – No thinning									
Index	Name of practice	Final cutting									
		Rotation 1		Rotation 2		Rotation 3		Rotation 4		% biomass removals	
		Age (years)	%	Age (years)	%	Age (years)	%	Age (years)	%		
FMP996	GFYC24NTE	34	100%	-	-	-	-	-	-	-	72
FMP997	GFYC24NTS	55	100%	-	-	-	-	-	-	-	72
FMP998	GFYC24NTW	48	100%	-	-	-	-	-	-	-	72
FMP999	GFYC26NTE	34	100%	-	-	-	-	-	-	-	72
FMP1000	GFYC26NTS	55	100%	-	-	-	-	-	-	-	72
FMP1001	GFYC26NTW	48	100%	-	-	-	-	-	-	-	72
FMP1002	GFYC28NTE	34	100%	-	-	-	-	-	-	-	72
FMP1003	GFYC28NTS	55	100%	-	-	-	-	-	-	-	72
FMP1004	GFYC28NTW	48	100%	-	-	-	-	-	-	-	72
FMP1005	GFYC30NTE	34	100%	-	-	-	-	-	-	-	72
FMP1006	GFYC30NTS	55	100%	-	-	-	-	-	-	-	72
FMP1007	GFYC30NTW	48	100%	-	-	-	-	-	-	-	72
FMP1008	NFYC4NTW	66	100%	-	-	-	-	-	-	-	67
FMP1009	NFYC6NTS	53	100%	-	-	-	-	-	-	-	68
FMP1010	NFYC6NTW	66	100%	-	-	-	-	-	-	-	68
FMP1011	NFYC8NTE	51	100%	-	-	-	-	-	-	-	68
FMP1012	NFYC8NTS	53	100%	-	-	-	-	-	-	-	68
FMP1013	NFYC8NTW	62	100%	-	-	-	-	-	-	-	68
FMP1014	NFYC10NTE	45	100%	-	-	-	-	-	-	-	70
FMP1015	NFYC10NTS	53	100%	-	-	-	-	-	-	-	70

Forest management practice		Silvicultural operations with final harvesting – No thinning										
Index	Name of practice	Final cutting										
		Rotation 1		Rotation 2		Rotation 3		Rotation 4		% biomass removals		
		Age (years)	%	Age (years)	%	Age (years)	%	Age (years)	%			
FMP1016	NFYC10NTW	59	100%	-	-	-	-	-	-	70		
FMP1017	NFYC12NTE	42	100%	-	-	-	-	-	-	70		
FMP1018	NFYC12NTS	53	100%	-	-	-	-	-	-	70		
FMP1019	NFYC12NTW	57	100%	-	-	-	-	-	-	70		
FMP1020	NFYC14NTE	41	100%	-	-	-	-	-	-	70		
FMP1021	NFYC14NTSW	55	100%	-	-	-	-	-	-	70		
FMP1022	NFYC16NTE	41	100%	-	-	-	-	-	-	70		
FMP1023	NFYC16NTS	55	100%	-	-	-	-	-	-	70		
FMP1024	NFYC16NTW	53	100%	-	-	-	-	-	-	70		
FMP1025	NFYC18NTE	39	100%	-	-	-	-	-	-	70		
FMP1026	NFYC18NTS	55	100%	-	-	-	-	-	-	70		
FMP1027	NFYC18NTW	50	100%	-	-	-	-	-	-	70		
FMP1028	NFYC20NTE	35	100%	-	-	-	-	-	-	70		
FMP1029	NFYC20NTS	55	100%	-	-	-	-	-	-	70		
FMP1030	NFYC20NTW	48	100%	-	-	-	-	-	-	70		
FMP1031	NFYC22NTE	34	100%	-	-	-	-	-	-	70		
FMP1032	NFYC22NTS	55	100%	-	-	-	-	-	-	70		
FMP1033	NFYC22NTW	48	100%	-	-	-	-	-	-	70		
FMP1034	NFYC24NTS	55	100%	-	-	-	-	-	-	72		
FMP1035	NFYC24NTW	48	100%	-	-	-	-	-	-	72		

Forest management practice		Silvicultural operations with final harvesting – No thinning										
Index	Name of practice	Final cutting										
		Rotation 1		Rotation 2		Rotation 3		Rotation 4		% biomass removals		
		Age (years)	%	Age (years)	%	Age (years)	%	Age (years)	%			
FMP1036	NFYC26NTS	55	100%	-	-	-	-	-	-	-	72	
FMP1037	NFYC28NTS	55	100%	-	-	-	-	-	-	-	72	
FMP1038	WHYC4NTE	55	100%	-	-	-	-	-	-	-	67	
FMP1039	WHYC4NTW	66	100%	-	-	-	-	-	-	-	67	
FMP1040	WHYC6NTE	57	100%	-	-	-	-	-	-	-	68	
FMP1041	WHYC6NTS	53	100%	-	-	-	-	-	-	-	68	
FMP1042	WHYC6NTW	66	100%	-	-	-	-	-	-	-	68	
FMP1043	WHYC8NTE	51	100%	-	-	-	-	-	-	-	68	
FMP1044	WHYC8NTS	53	100%	-	-	-	-	-	-	-	68	
FMP1045	WHYC8NTW	62	100%	-	-	-	-	-	-	-	68	
FMP1046	WHYC10NTE	45	100%	-	-	-	-	-	-	-	68	
FMP1047	WHYC10NTS	53	100%	-	-	-	-	-	-	-	68	
FMP1048	WHYC10NTW	59	100%	-	-	-	-	-	-	-	68	
FMP1049	WHYC12NTE	42	100%	-	-	-	-	-	-	-	76	
FMP1050	WHYC12NTS	53	100%	-	-	-	-	-	-	-	76	
FMP1051	WHYC12NTW	57	100%	-	-	-	-	-	-	-	76	
FMP1052	WHYC14NTE	41	100%	-	-	-	-	-	-	-	76	
FMP1053	WHYC14NTSW	55	100%	-	-	-	-	-	-	-	76	
FMP1054	WHYC16NTE	41	100%	-	-	-	-	-	-	-	76	
FMP1055	WHYC16NTS	55	100%	-	-	-	-	-	-	-	76	

Forest management practice		Silvicultural operations with final harvesting – No thinning									
Index	Name of practice	Final cutting									
		Rotation 1		Rotation 2		Rotation 3		Rotation 4		% biomass removals	
		Age (years)	%	Age (years)	%	Age (years)	%	Age (years)	%		
FMP1056	WHYC16NTW	53	100%	-	-	-	-	-	-	-	76
FMP1057	WHYC18NTE	39	100%	-	-	-	-	-	-	-	76
FMP1058	WHYC18NTS	55	100%	-	-	-	-	-	-	-	76
FMP1059	WHYC18NTW	50	100%	-	-	-	-	-	-	-	76
FMP1060	WHYC20NTE	35	100%	-	-	-	-	-	-	-	76
FMP1061	WHYC20NTS	55	100%	-	-	-	-	-	-	-	76
FMP1062	WHYC20NTW	48	100%	-	-	-	-	-	-	-	76
FMP1063	WHYC22NTE	34	100%	-	-	-	-	-	-	-	76
FMP1064	WHYC22NTS	55	100%	-	-	-	-	-	-	-	76
FMP1065	WHYC22NTW	48	100%	-	-	-	-	-	-	-	76
FMP1066	WHYC24NTE	34	100%	-	-	-	-	-	-	-	76
FMP1067	WHYC24NTS	55	100%	-	-	-	-	-	-	-	76
FMP1068	WHYC24NTW	48	100%	-	-	-	-	-	-	-	76
FMP1069	WHYC26NTS	55	100%	-	-	-	-	-	-	-	72
FMP1070	WHYC26NTW	48	100%	-	-	-	-	-	-	-	72
FMP1071	RCYC4NTE	55	100%	-	-	-	-	-	-	-	67
FMP1072	RCYC4NTW	66	100%	-	-	-	-	-	-	-	67
FMP1073	RCYC6NTE	57	100%	-	-	-	-	-	-	-	68
FMP1074	RCYC6NTS	53	100%	-	-	-	-	-	-	-	68
FMP1075	RCYC6NTW	66	100%	-	-	-	-	-	-	-	68

Forest management practice		Silvicultural operations with final harvesting – No thinning									
Index	Name of practice	Final cutting									
		Rotation 1		Rotation 2		Rotation 3		Rotation 4		% biomass removals	
		Age (years)	%	Age (years)	%	Age (years)	%	Age (years)	%		
FMP1076	RCYC8NTE	51	100%	-	-	-	-	-	-	-	68
FMP1077	RCYC8NTS	53	100%	-	-	-	-	-	-	-	68
FMP1078	RCYC8NTW	62	100%	-	-	-	-	-	-	-	68
FMP1079	RCYC10NTE	45	100%	-	-	-	-	-	-	-	68
FMP1080	RCYC10NTS	53	100%	-	-	-	-	-	-	-	68
FMP1081	RCYC10NTW	59	100%	-	-	-	-	-	-	-	68
FMP1082	RCYC12NTE	42	100%	-	-	-	-	-	-	-	67
FMP1083	RCYC12NTS	53	100%	-	-	-	-	-	-	-	67
FMP1084	RCYC12NTW	57	100%	-	-	-	-	-	-	-	67
FMP1085	RCYC14NTE	41	100%	-	-	-	-	-	-	-	67
FMP1086	RCYC14NTSW	55	100%	-	-	-	-	-	-	-	67
FMP1087	RCYC16NTE	41	100%	-	-	-	-	-	-	-	67
FMP1088	RCYC16NTS	55	100%	-	-	-	-	-	-	-	67
FMP1089	RCYC16NTW	53	100%	-	-	-	-	-	-	-	67
FMP1090	RCYC18NTE	39	100%	-	-	-	-	-	-	-	67
FMP1091	RCYC18NTS	55	100%	-	-	-	-	-	-	-	67
FMP1092	RCYC18NTW	50	100%	-	-	-	-	-	-	-	67
FMP1093	RCYC20NTE	35	100%	-	-	-	-	-	-	-	67
FMP1094	RCYC20NTS	55	100%	-	-	-	-	-	-	-	67
FMP1095	RCYC20NTW	48	100%	-	-	-	-	-	-	-	67

Forest management practice		Silvicultural operations with final harvesting – No thinning										
Index	Name of practice	Final cutting										
		Rotation 1		Rotation 2		Rotation 3		Rotation 4		% biomass removals		
		Age (years)	%	Age (years)	%	Age (years)	%	Age (years)	%			
FMP1096	RCYC22NTE	34	100%	-	-	-	-	-	-	-	67	
FMP1097	RCYC22NTS	55	100%	-	-	-	-	-	-	-	67	
FMP1098	RCYC22NTW	48	100%	-	-	-	-	-	-	-	67	
FMP1099	RCYC24NTE	34	100%	-	-	-	-	-	-	-	67	
FMP1100	RCYC24NTS	55	100%	-	-	-	-	-	-	-	67	
FMP1101	RCYC24NTW	48	100%	-	-	-	-	-	-	-	67	

Private forest estate (England, Scotland and Wales): Forest Management Practices involving clearcutting with thinning during the rotation

Note that up to four rotations are assigned for each FMP. Proportions of forest area within a stratum are assigned to each of the rotations.

FMP		Silvicultural operations with final harvesting - Thinning																				
Index	Name of practice	Initial thinning		Main thinnings					Late-rotation thinnings				Final cutting									
		Age (yrs)	% biomass removals	Age of first yr (yrs)	No. (5 yr cycle)	% biomass removals			Age of first yr (yrs)	No. (5 yr cycle)	% biomass removals			Rotation 1		Rotation 2		Rotation 3		Rotation 4		% biomass removals
ID	Name	IT Ag	IT %	MT Ag	MT c.	MT %m	MT % \bar{m}	MT %M	LR Ag	LR c.	LR m	LR \bar{m}	LR M	Rot1 Ag	Rot1 %	Rot2 Ag	Rot2 %	Rot3 Ag	Rot3 %	Rot4 Ag	Rot4 %	FC %BR

ID	Name	IT	IT	MT	MT	MT	MT	MT	LR	LR	LR	LR	Rot1	Rot1	Rot2	Rot2	Rot3	Rot3	Rot4	Rot4	FC	
		Ag	%	Ag	c.	%m	% \bar{m}	%M	Ag	c.	m	\bar{m}	M	Ag	%	Ag	%	Ag	%	Ag	%	%BR
FMP1102	NSYC4THW	-	0	40	9	4.7	8.0	14	85	8	0.3	1.8	4.2	69	100%	-	-	-	-	-	-	67
FMP1103	NSYC6THE	-	0	35	7	6.1	10	16	70	34	0.1	1.1	5.2	66	100%	-	-	-	-	-	-	66
FMP1104	NSYC6THS	-	0	35	7	6.1	10	16	70	34	0.1	1.1	5.2	60	100%	-	-	-	-	-	-	66
FMP1105	NSYC6THW	-	0	35	7	6.1	10	16	70	34	0.1	1.1	5.2	69	100%	-	-	-	-	-	-	66
FMP1106	NSYC8THE	-	0	31	8	5.9	10	17	71	45	0.4	1.4	4.5	42	100%	-	-	-	-	-	-	66
FMP1107	NSYC8THS	-	0	31	8	5.9	10	17	71	45	0.4	1.4	4.5	57	100%	-	-	-	-	-	-	66
FMP1108	NSYC8THW	-	0	31	8	5.9	10	17	71	45	0.4	1.4	4.5	65	100%	-	-	-	-	-	-	66
FMP1109	NSYC10THE	-	0	28	8	6.3	11	20	68	46	0.3	1.4	5.1	46	100%	-	-	-	-	-	-	66
FMP1110	NSYC10THS	-	0	28	8	6.3	11	20	68	46	0.3	1.4	5.1	57	100%	-	-	-	-	-	-	66
FMP1111	NSYC10THW	-	0	28	8	6.3	11	20	68	46	0.3	1.4	5.1	60	100%	-	-	-	-	-	-	66
FMP1112	NSYC12THE	-	0	26	8	6.6	12	22	66	46	0.8	1.8	5.6	41	100%	-	-	-	-	-	-	66
FMP1113	NSYC12THS	-	0	26	8	6.6	12	22	66	46	0.8	1.8	5.6	52	100%	-	-	-	-	-	-	66
FMP1114	NSYC12THW	-	0	26	8	6.6	12	22	66	46	0.8	1.8	5.6	55	100%	-	-	-	-	-	-	66
FMP1115	NSYC14THE	-	0	24	9	6.5	12	24	69	45	0.5	1.6	5.0	44	100%	-	-	-	-	-	-	66
FMP1116	NSYC14THS	-	0	24	9	6.5	12	24	69	45	0.5	1.6	5.0	47	100%	-	-	-	-	-	-	66
FMP1117	NSYC14THW	-	0	24	9	6.5	12	24	69	45	0.5	1.6	5.0	50	100%	-	-	-	-	-	-	66
FMP1118	NSYC16THE	-	0	23	8	7.1	13	25	63	47	0.2	1.4	6.1	40	100%	-	-	-	-	-	-	66
FMP1119	NSYC16THS	-	0	23	8	7.1	13	25	63	47	0.2	1.4	6.1	45	100%	-	-	-	-	-	-	66
FMP1120	NSYC16THW	-	0	23	8	7.1	13	25	63	47	0.2	1.4	6.1	47	100%	-	-	-	-	-	-	66
FMP1121	NSYC18THE	-	0	22	8	7.3	13	26	62	47	0.2	1.4	6.3	40	100%	-	-	-	-	-	-	66
FMP1122	NSYC18THS	-	0	22	8	7.3	13	26	62	47	0.2	1.4	6.3	44	100%	-	-	-	-	-	-	66
FMP1123	NSYC18THW	-	0	22	8	7.3	13	26	62	47	0.2	1.4	6.3	45	100%	-	-	-	-	-	-	66
FMP1124	NSYC20THE	-	0	21	8	7.5	14	28	61	47	0.1	1.3	6.6	32	100%	-	-	-	-	-	-	66

ID	Name	IT	IT	MT	MT	MT	MT	MT	LR	LR	LR	LR	Rot1	Rot1	Rot2	Rot2	Rot3	Rot3	Rot4	Rot4	FC	
		Ag	%	Ag	c.	%m	% \bar{m}	%M	Ag	c.	m	\bar{m}	M	Ag	%	Ag	%	Ag	%	Ag	%	%BR
FMP1125	NSYC20THSW	-	0	21	8	7.5	14	28	61	47	0.1	1.3	6.6	43	100%	-	-	-	-	-	-	66
FMP1126	NSYC22THESW	-	0	20	8	7.8	15	30	60	44	0.1	1.2	6.8	43	100%	-	-	-	-	-	-	66
FMP1127	NSYC24THW	-	0	21	5	10	16	27	46	28	0.1	1.5	7.2	43	100%	-	-	-	-	-	-	72
FMP1128	SSYC6THE	-	0	33	5	6.7	10	14	58	46	0.3	1.4	5.6	56	25%	61	50%	66	25%	-	-	68
FMP1129	SSYC6THS	-	0	33	5	6.7	10	14	58	46	0.3	1.4	5.6	53	25%	58	25%	63	25%	68	25%	68
FMP1130	SSYC8THE	-	0	29	6	6.9	11	17	59	47	0.5	1.5	5.1	54	25%	59	50%	64	25%	-	-	68
FMP1131	SSYC8THS	-	0	29	6	6.9	11	17	59	47	0.5	1.5	5.1	49	25%	54	25%	59	25%	64	25%	68
FMP1132	SSYC10THE	-	0	26	6	7.5	12	20	56	47	0.2	1.2	5.7	50	25%	55	50%	60	25%	-	-	68
FMP1133	SSYC10THS	-	0	26	6	7.5	12	20	56	47	0.2	1.2	5.7	49	25%	54	25%	59	25%	64	25%	68
FMP1134	SSYC12THE	-	0	24	6	8.0	13	22	54	44	0.1	1.2	6.2	49	25%	54	50%	59	25%	-	-	68
FMP1135	SSYC12THS	-	0	24	6	8.0	13	22	54	44	0.1	1.2	6.2	45	25%	50	25%	55	25%	60	25%	68
FMP1136	SSYC12THW	-	0	24	6	8.0	13	22	54	44	0.1	1.2	6.2	46	25%	51	25%	56	25%	61	25%	68
FMP1137	SSYC14THE	-	0	22	6	8.5	15	25	52	38	0.1	1.3	6.7	45	25%	50	50%	55	25%	-	-	68
FMP1138	SSYC14THS	-	0	22	6	8.5	15	25	52	38	0.1	1.3	6.7	40	25%	45	25%	50	25%	55	25%	68
FMP1139	SSYC14THW	-	0	22	6	8.5	15	25	52	38	0.1	1.3	6.7	43	25%	48	25%	53	25%	58	25%	68
FMP1140	SSYC16THE	-	0	21	6	8.7	15	26	51	41	0.1	1.3	6.8	43	25%	48	50%	53	25%	-	-	68
FMP1141	SSYC16THS	-	0	21	6	8.7	15	26	51	41	0.1	1.3	6.8	37	25%	42	25%	47	25%	52	25%	68
FMP1142	SSYC16THW	-	0	21	6	8.7	15	26	51	41	0.1	1.3	6.8	41	25%	46	25%	51	25%	56	25%	68
FMP1143	SSYC18THE	-	0	20	5	10	17	26	45	42	0.1	1.5	8.8	42	25%	47	50%	52	25%	-	-	68
FMP1144	SSYC18THS	-	0	20	5	10	17	26	45	42	0.1	1.5	8.8	34	25%	39	25%	44	25%	49	25%	68
FMP1145	SSYC18THW	-	0	20	5	10	17	26	45	42	0.1	1.5	8.8	39	25%	44	25%	49	25%	54	25%	68
FMP1146	SSYC20THE	-	0	19	6	9.2	16	27	49	40	0.1	1.3	7.1	41	25%	46	50%	51	25%			68
FMP1147	SSYC20THS	-	0	19	6	9.2	16	27	49	40	0.1	1.3	7.1	33	25%	38	25%	43	25%	48	25%	68

ID	Name	IT	IT	MT	MT	MT	MT	MT	LR	LR	LR	LR	Rot1	Rot1	Rot2	Rot2	Rot3	Rot3	Rot4	Rot4	FC	
		Ag	%	Ag	c.	%m	% \bar{m}	%M	Ag	c.	m	\bar{m}	M	Ag	%	Ag	%	Ag	%	Ag	%	%BR
FMP1148	SSYC20THW	-	0	19	6	9.2	16	27	49	40	0.1	1.3	7.1	37	25%	42	25%	47	25%	52	25%	68
FMP1149	SSYC22THE	-	0	18	6	9.5	16	28	48	39	0.1	1.4	7.3	38	25%	43	50%	48	25%	-	-	68
FMP1150	SSYC22THS	-	0	18	6	9.5	16	28	48	39	0.1	1.4	7.3	33	25%	38	25%	43	25%	48	25%	68
FMP1151	SSYC22THW	-	0	18	6	9.5	16	28	48	39	0.1	1.4	7.3	35	25%	40	25%	45	25%	50	25%	68
FMP1152	SSYC24THE	-	0	18	5	10	17	26	43	44	0.1	1.4	8.6	40	25%	45	50%	50	25%	-	-	68
FMP1153	SSYC24THS	-	0	18	5	10	17	26	43	44	0.1	1.4	8.6	33	25%	38	25%	43	25%	48	25%	68
FMP1154	SSYC24THW	-	0	18	5	10	17	26	43	44	0.1	1.4	8.6	34	25%	39	25%	44	25%	49	25%	68
FMP1155	SSYC26THE	-	0	20	5	10	18	30	45	32	0.1	1.4	7.6	40	25%	45	50%	50	25%	-	-	72
FMP1156	SSYC26THS	-	0	20	5	10	18	30	45	32	0.1	1.4	7.6	33	25%	38	25%	43	25%	48	25%	72
FMP1157	SSYC26THW	-	0	20	5	10	18	30	45	32	0.1	1.4	7.6	34	25%	39	25%	44	25%	49	25%	72
FMP1158	SSYC28THE	-	0	20	4	12	19	29	40	35	0.1	1.6	10.2	40	25%	45	50%	50	25%	-	-	72
FMP1159	SSYC28THS	-	0	20	4	12	19	29	40	35	0.1	1.6	10.2	33	25%	38	25%	43	25%	48	25%	72
FMP1160	SSYC30THS	-	0	19	5	11	19	32	44	38	0.1	1.4	8.0	33	25%	38	25%	43	25%	48	25%	72
FMP1161	SPYC4THE	-	0	40	9	4.7	8.0	14	85	8	0.3	1.8	4.2	74	50%	94	50%	-	-	-	-	67
FMP1162	SPYC4THS	-	0	40	9	4.7	8.0	14	85	8	0.3	1.8	4.2	83	25%	88	25%	93	25%	98	25%	67
FMP1163	SPYC4THW	-	0	40	9	4.7	8.0	14	85	8	0.3	1.8	4.2	83	100%	-	-	-	-	-	-	67
FMP1164	SPYC6THE	-	0	33	10	5.1	8.7	16	83	12	0.2	1.4	3.9	70	50%	90	50%	-	-	-	-	67
FMP1165	SPYC6THS	-	0	33	10	5.1	8.7	16	83	12	0.2	1.4	3.9	80	25%	85	25%	90	25%	95	25%	67
FMP1166	SPYC6THW	-	0	33	10	5.1	8.7	16	83	12	0.2	1.4	3.9	80	100%	-	-	-	-	-	-	67
FMP1167	SPYC8THE	-	0	29	9	5.9	10	18	74	16	0.1	1.5	4.9	65	50%	86	50%	-	-	-	-	67
FMP1168	SPYC8THS	-	0	29	9	5.9	10	18	74	16	0.1	1.5	4.9	75	25%	80	25%	85	25%	90	25%	67
FMP1169	SPYC8THW	-	0	29	9	5.9	10	18	74	16	0.1	1.5	4.9	75	100%	-	-	-	-	-	-	67
FMP1170	SPYC10THE	-	0	25	8	6.9	12	21	65	20	0.1	1.8	6.1	60	50%	80	50%	-	-	-	-	67

ID	Name	IT	IT	MT	MT	MT	MT	MT	MT	LR	LR	LR	LR	Rot1	Rot1	Rot2	Rot2	Rot3	Rot3	Rot4	Rot4	FC	
		Ag	%	Ag	c.	%m	% \bar{m}	%M	% \bar{M}	Ag	c.	m	\bar{m}	M	Ag	%	Ag	%	Ag	%	Ag	%	%BR
FMP1171	SPYC10THS	-	0	25	8	6.9	12	21	65	20	0.1	1.8	6.1	69	25%	74	25%	79	25%	84	25%	67	
FMP1172	SPYC10THW	-	0	25	8	6.9	12	21	65	20	0.1	1.8	6.1	69	100%	-	-	-	-	-	-	-	67
FMP1173	SPYC12THE	-	0	23	8	7.2	12	21	63	25	0.1	1.6	6.1	55	50%	75	50%	-	-	-	-	-	67
FMP1174	SPYC12THS	-	0	23	8	7.2	12	21	63	25	0.1	1.6	6.1	64	25%	69	25%	74	25%	79	25%	67	
FMP1175	SPYC12THW	-	0	23	8	7.2	12	21	63	25	0.1	1.6	6.1	64	100%	-	-	-	-	-	-	-	67
FMP1176	SPYC14THE	-	0	21	7	8.4	14	23	56	28	0.1	1.8	7.3	50	50%	70	50%	-	-	-	-	-	67
FMP1177	SPYC14THS	-	0	21	7	8.4	14	23	56	28	0.1	1.8	7.3	58	25%	63	25%	68	25%	73	25%	67	
FMP1178	SPYC14THW	-	0	21	7	8.4	14	23	56	28	0.1	1.8	7.3	59	100%	-	-	-	-	-	-	-	67
FMP1179	SPYC16THW	-	0	20	5	11	16	23	45	50	1.2	2.3	9.5	59	100%	-	-	-	-	-	-	-	73
FMP1180	SPYC20THW	-	0	18	6	11	17	27	48	50	1.1	2.2	8.2	59	100%	-	-	-	-	-	-	-	73
FMP1181	CPYC4THS	-	0	40	9	4.7	8.0	14	85	8	0.3	1.8	4.2	62	100%	-	-	-	-	-	-	-	67
FMP1182	CPYC4THW	-	0	40	9	4.7	8.0	14	85	8	0.3	1.8	4.2	69	100%	-	-	-	-	-	-	-	67
FMP1183	CPYC6THE	-	0	33	6	6.6	8.8	12	63	47	0.5	1.7	5.3	70	100%	-	-	-	-	-	-	-	73
FMP1184	CPYC6THS	-	0	33	6	6.6	8.8	12	63	47	0.5	1.7	5.3	62	100%	-	-	-	-	-	-	-	73
FMP1185	CPYC6THW	-	0	33	6	6.6	8.8	12	63	47	0.5	1.7	5.3	69	100%	-	-	-	-	-	-	-	73
FMP1186	CPYC8THE	-	0	28	6	7.6	10	15	58	48	0.7	1.8	6.1	69	100%	-	-	-	-	-	-	-	73
FMP1187	CPYC8THS	-	0	28	6	7.6	10	15	58	48	0.7	1.8	6.1	62	100%	-	-	-	-	-	-	-	73
FMP1188	CPYC8THW	-	0	28	6	7.6	10	15	58	48	0.7	1.8	6.1	68	100%	-	-	-	-	-	-	-	73
FMP1189	CPYC10THE	-	0	25	6	8.3	12	17	55	48	0.8	2.0	6.8	66	100%	-	-	-	-	-	-	-	73
FMP1190	CPYC10THS	-	0	25	6	8.3	12	17	55	48	0.8	2.0	6.8	62	100%	-	-	-	-	-	-	-	73
FMP1191	CPYC10THW	-	0	25	6	8.3	12	17	55	48	0.8	2.0	6.8	65	100%	-	-	-	-	-	-	-	73
FMP1192	CPYC12THE	-	0	23	6	8.8	13	19	53	49	0.8	2.0	7.1	63	100%	-	-	-	-	-	-	-	73
FMP1193	CPYC12THS	-	0	23	6	8.8	13	19	53	49	0.8	2.0	7.1	62	100%	-	-	-	-	-	-	-	73

ID	Name	IT	IT	MT	MT	MT	MT	MT	LR	LR	LR	LR	Rot1	Rot1	Rot2	Rot2	Rot3	Rot3	Rot4	Rot4	FC	
		Ag	%	Ag	c.	%m	% \bar{m}	%M	Ag	c.	m	\bar{m}	M	Ag	%	Ag	%	Ag	%	Ag	%	%BR
FMP1194	CPYC12THW	-	0	23	6	8.8	13	19	53	49	0.8	2.0	7.1	61	100%	-	-	-	-	-	-	73
FMP1195	CPYC14THE	-	0	21	6	9.5	14	22	51	49	1.8	2.5	7.8	60	100%	-	-	-	-	-	-	73
FMP1196	CPYC14THS	-	0	21	6	9.5	14	22	51	49	1.8	2.5	7.8	62	100%	-	-	-	-	-	-	73
FMP1197	CPYC14THW	-	0	21	6	9.5	14	22	51	49	1.8	2.5	7.8	58	100%	-	-	-	-	-	-	73
FMP1198	CPYC16THE	-	0	20	5	11	16	23	45	50	1.2	2.3	9.5	56	100%	-	-	-	-	-	-	73
FMP1199	CPYC16THW	-	0	20	5	11	16	23	45	50	1.2	2.3	9.5	54	100%	-	-	-	-	-	-	73
FMP1200	CPYC18THE	-	0	19	6	10	16	25	49	49	1.4	2.3	8.1	53	100%	-	-	-	-	-	-	73
FMP1201	CPYC18THW	-	0	19	6	10	16	25	49	49	1.4	2.3	8.1	51	100%	-	-	-	-	-	-	73
FMP1202	CPYC20THE	-	0	18	6	11	17	27	48	50	1.1	2.2	8.2	52	100%	-	-	-	-	-	-	73
FMP1203	CPYC20THW	-	0	18	6	11	17	27	48	50	1.1	2.2	8.2	50	100%	-	-	-	-	-	-	73
FMP1204	CPYC22THW	-	0	21	5	10	17	28	46	28	0.1	1.5	7.4	50	100%	-	-	-	-	-	-	72
FMP1205	LPYC4THE	-	0	40	5	5.4	6.5	7.9	65	46	1.1	1.8	4.9	56	100%	-	-	-	-	-	-	67
FMP1206	LPYC4THS	-	0	40	5	5.4	6.5	7.9	65	46	1.1	1.8	4.9	61	100%	-	-	-	-	-	-	67
FMP1207	LPYC4THW	-	0	40	5	5.4	6.5	7.9	65	46	1.1	1.8	4.9	45	100%	-	-	-	-	-	-	67
FMP1208	LPYC6THE	-	0	31	7	6.0	7.9	11	66	46	1.6	2.3	4.8	55	100%	-	-	-	-	-	-	67
FMP1209	LPYC6THS	-	0	31	7	6.0	7.9	11	66	46	1.6	2.3	4.8	57	100%	-	-	-	-	-	-	67
FMP1210	LPYC6THW	-	0	31	7	6.0	7.9	11	66	46	1.6	2.3	4.8	45	100%	-	-	-	-	-	-	67
FMP1211	LPYC8THE	-	0	26	7	6.8	10	14	61	47	1.8	2.6	5.6	52	100%	-	-	-	-	-	-	67
FMP1212	LPYC8THS	-	0	26	7	6.8	10	14	61	47	1.8	2.6	5.6	57	100%	-	-	-	-	-	-	67
FMP1213	LPYC8THW	-	0	26	7	6.8	10	14	61	47	1.8	2.6	5.6	45	100%	-	-	-	-	-	-	67
FMP1214	LPYC10THE	-	0	23	7	7.4	11	17	58	48	2.4	3.0	6.2	47	100%	-	-	-	-	-	-	67
FMP1215	LPYC10THS	-	0	23	7	7.4	11	17	58	48	2.4	3.0	6.2	54	100%	-	-	-	-	-	-	67
FMP1216	LPYC10THW	-	0	23	7	7.4	11	17	58	48	2.4	3.0	6.2	45	100%	-	-	-	-	-	-	67

ID	Name	IT	IT	MT	MT	MT	MT	MT	LR	LR	LR	LR	Rot1	Rot1	Rot2	Rot2	Rot3	Rot3	Rot4	Rot4	FC	
		Ag	%	Ag	c.	%m	% \bar{m}	%M	Ag	c.	m	\bar{m}	M	Ag	%	Ag	%	Ag	%	Ag	%	%BR
FMP1217	LPYC12THE	-	0	21	7	7.9	12	19	56	48	2.2	2.9	6.6	39	100%	-	-	-	-	-	-	67
FMP1218	LPYC12THS	-	0	21	7	7.9	12	19	56	48	2.2	2.9	6.6	49	100%	-	-	-	-	-	-	67
FMP1219	LPYC12THW	-	0	21	7	7.9	12	19	56	48	2.2	2.9	6.6	45	100%	-	-	-	-	-	-	67
FMP1220	LPYC14THE	-	0	19	7	8.4	13	23	54	48	1.2	2.5	7.0	29	100%	-	-	-	-	-	-	67
FMP1221	LPYC14THSW	-	0	19	7	8.4	13	23	54	48	1.2	2.5	7.0	45	100%	-	-	-	-	-	-	67
FMP1222	LPYC16THE	-	0	20	5	11	16	23	45	50	1.2	2.3	9.5	29	100%	-	-	-	-	-	-	73
FMP1223	LPYC16THW	-	0	20	5	11	16	23	45	50	1.2	2.3	9.5	45	100%	-	-	-	-	-	-	73
FMP1224	LPYC18THE	-	0	19	6	10	16	25	49	49	1.4	2.3	8.1	29	100%	-	-	-	-	-	-	73
FMP1225	LPYC20THE	-	0	18	6	11	17	27	48	50	1.1	2.2	8.2	29	100%	-	-	-	-	-	-	73
FMP1226	LPYC20THSW	-	0	18	6	11	17	27	48	50	1.1	2.2	8.2	45	100%	-	-	-	-	-	-	73
FMP1227	ELYC2THE	-	0	32	5	7.5	10	14	57	11	0.4	2.2	5.9	60	100%	-	-	-	-	-	-	80
FMP1228	ELYC2THS	-	0	32	5	7.5	10	14	57	11	0.4	2.2	5.9	84	100%	-	-	-	-	-	-	80
FMP1229	ELYC4THE	-	0	32	5	7.5	10	14	57	11	0.4	2.2	5.9	68	100%	-	-	-	-	-	-	80
FMP1230	ELYC4THS	-	0	32	5	7.5	10	14	57	11	0.4	2.2	5.9	84	100%	-	-	-	-	-	-	80
FMP1231	ELYC4THW	-	0	32	5	7.5	10	14	57	11	0.4	2.2	5.9	57	100%	-	-	-	-	-	-	80
FMP1232	ELYC6THE	-	0	26	5	9.1	13	18	51	16	0.3	2.4	7.9	69	100%	-	-	-	-	-	-	80
FMP1233	ELYC6THS	-	0	26	5	9.1	13	18	51	16	0.3	2.4	7.9	78	100%	-	-	-	-	-	-	80
FMP1234	ELYC6THW	-	0	26	5	9.1	13	18	51	16	0.3	2.4	7.9	55	100%	-	-	-	-	-	-	80
FMP1235	ELYC8THE	-	0	22	6	9.6	14	22	52	20	0.3	2.1	7.1	67	100%	-	-	-	-	-	-	80
FMP1236	ELYC8THS	-	0	22	6	9.6	14	22	52	20	0.3	2.1	7.1	78	100%	-	-	-	-	-	-	80
FMP1237	ELYC8THW	-	0	22	6	9.6	14	22	52	20	0.3	2.1	7.1	52	100%	-	-	-	-	-	-	80
FMP1238	ELYC10THE	-	0	20	5	11	16	24	45	27	0.2	2.3	9.2	64	100%	-	-	-	-	-	-	80
FMP1239	ELYC10THS	-	0	20	5	11	16	24	45	27	0.2	2.3	9.2	73	100%	-	-	-	-	-	-	80

ID	Name	IT	IT	MT	MT	MT	MT	MT	LR	LR	LR	LR	Rot1	Rot1	Rot2	Rot2	Rot3	Rot3	Rot4	Rot4	FC	
		Ag	%	Ag	c.	%m	% \bar{m}	%M	Ag	c.	m	\bar{m}	M	Ag	%	Ag	%	Ag	%	Ag	%	%BR
FMP1240	ELYC10THW	-	0	20	5	11	16	24	45	27	0.2	2.3	9.2	47	100%	-	-	-	-	-	-	80
FMP1241	ELYC12THE	-	0	18	5	12	18	26	43	34	0.2	2.2	9.9	61	100%	-	-	-	-	-	-	80
FMP1242	ELYC12THS	-	0	18	5	12	18	26	43	34	0.2	2.2	9.9	69	100%	-	-	-	-	-	-	80
FMP1243	ELYC12THW	-	0	18	5	12	18	26	43	34	0.2	2.2	9.9	43	100%	-	-	-	-	-	-	80
FMP1244	ELYC14THE	-	0	14	6	12	20	34	44	46	4.7	10	76	66	100%	-	-	-	-	-	-	76
FMP1245	ELYC14THS	-	0	14	6	12	20	34	44	46	4.7	10	76	69	100%	-	-	-	-	-	-	76
FMP1246	ELYC14THW	-	0	14	6	12	20	34	44	46	4.7	10	76	43	100%	-	-	-	-	-	-	76
FMP1247	JLYC2THE	-	0	26	5	8.5	12	18	51	49	1.6	1.9	6.2	59	25%	64	50%	69	25%	-	-	76
FMP1248	JLYC2THS	-	0	26	5	8.5	12	18	51	49	1.6	1.9	6.2	68	75%	88	25%	-	-	-	-	76
FMP1249	JLYC4THE	-	0	26	5	8.5	12	18	51	49	1.6	1.9	6.2	59	25%	64	50%	69	25%	-	-	76
FMP1250	JLYC4THS	-	0	26	5	8.5	12	18	51	49	1.6	1.9	6.2	68	75%	88	25%	-	-	-	-	76
FMP1251	JLYC4THW	-	0	26	5	8.5	12	18	51	49	1.6	1.9	6.2	57	100%	-	-	-	-	-	-	76
FMP1252	JLYC6THE	-	0	22	5	9.7	14	21	47	50	2.7	3.6	7.9	58	25%	63	50%	68	25%	-	-	76
FMP1253	JLYC6THS	-	0	22	5	9.7	14	21	47	50	2.7	3.6	7.9	63	75%	83	25%	-	-	-	-	76
FMP1254	JLYC6THW	-	0	22	5	9.7	14	21	47	50	2.7	3.6	7.9	56	100%	-	-	-	-	-	-	76
FMP1255	JLYC8THE	-	0	19	6	10	15	25	49	49	3.3	4.5	8.6	56	25%	61	50%	66	25%	-	-	76
FMP1256	JLYC8THS	-	0	19	6	10	15	25	49	49	3.3	4.5	8.6	61	75%	81	25%	-	-	-	-	76
FMP1257	JLYC8THW	-	0	19	6	10	15	25	49	49	3.3	4.5	8.6	54	100%	-	-	-	-	-	-	76
FMP1258	JLYC10THE	-	0	17	5	12	18	28	42	45	4.2	10	76	59	25%	64	50%	69	25%	-	-	76
FMP1259	JLYC10THS	-	0	17	5	12	18	28	42	45	4.2	10	76	58	75%	78	25%	-	-	-	-	76
FMP1260	JLYC10THW	-	0	17	5	12	18	28	42	45	4.2	10	76	50	100%	-	-	-	-	-	-	76
FMP1261	JLYC12THE	-	0	15	5	13	20	33	40	42	4.6	10	76	53	25%	58	50%	63	25%	-	-	76
FMP1262	JLYC12THS	-	0	15	5	13	20	33	40	42	4.6	10	76	52	75%	72	25%	-	-	-	-	76

ID	Name	IT	IT	MT	MT	MT	MT	MT	LR	LR	LR	LR	Rot1	Rot1	Rot2	Rot2	Rot3	Rot3	Rot4	Rot4	FC	
		Ag	%	Ag	c.	%m	% \bar{m}	%M	Ag	c.	m	\bar{m}	M	Ag	%	Ag	%	Ag	%	Ag	%	%BR
FMP1263	JLYC12THW	-	0	15	5	13	20	33	40	42	4.6	10	76	46	100%	-	-	-	-	-	-	76
FMP1264	JLYC14THE	-	0	14	6	12	20	34	44	46	4.7	10	76	48	25%	53	50%	58	25%	-	-	76
FMP1265	JLYC14THS	-	0	14	6	12	20	34	44	46	4.7	10	76	43	75%	63	25%	-	-	-	-	76
FMP1266	JLYC14THW	-	0	14	6	12	20	34	44	46	4.7	10	76	43	100%	-	-	-	-	-	-	76
FMP1267	DFYC4THW	-	0	40	9	4.7	8.0	14	85	8	0.3	1.8	4.2	64	100%	-	-	-	-	-	-	67
FMP1268	DFYC6THS	-	0	33	10	5.1	8.7	16	83	12	0.2	1.4	3.9	74	100%	-	-	-	-	-	-	67
FMP1269	DFYC6THW	-	0	33	10	5.1	8.7	16	83	12	0.2	1.4	3.9	64	100%	-	-	-	-	-	-	67
FMP1270	DFYC8THE	-	0	28	7	6.8	11	18	63	47	0.4	1.5	5.3	81	25%	86	50%	91	25%	-	-	71
FMP1271	DFYC8THS	-	0	28	7	6.8	11	18	63	47	0.4	1.5	5.3	74	100%	-	-	-	-	-	-	71
FMP1272	DFYC8THW	-	0	28	7	6.8	11	18	63	47	0.4	1.5	5.3	64	100%	-	-	-	-	-	-	71
FMP1273	DFYC10THE	-	0	25	6	8.0	12	20	55	48	1.0	2.1	7.1	76	25%	81	50%	86	25%	-	-	71
FMP1274	DFYC10THS	-	0	25	6	8.0	12	20	55	48	1.0	2.1	7.1	70	100%	-	-	-	-	-	-	71
FMP1275	DFYC10THW	-	0	25	6	8.0	12	20	55	48	1.0	2.1	7.1	64	100%	-	-	-	-	-	-	71
FMP1276	DFYC12THE	-	0	23	7	7.9	12	21	58	48	0.4	1.6	6.0	71	25%	76	50%	81	25%	-	-	71
FMP1277	DFYC12THS	-	0	23	7	7.9	12	21	58	48	0.4	1.6	6.0	69	100%	-	-	-	-	-	-	71
FMP1278	DFYC12THW	-	0	23	7	7.9	12	21	58	48	0.4	1.6	6.0	60	100%	-	-	-	-	-	-	71
FMP1279	DFYC14THE	-	0	21	6	9.1	15	24	51	49	0.6	1.9	8.0	66	25%	71	50%	76	25%	-	-	71
FMP1280	DFYC14THS	-	0	21	6	9.1	15	24	51	49	0.6	1.9	8.0	67	100%	-	-	-	-	-	-	71
FMP1281	DFYC14THW	-	0	21	6	9.1	15	24	51	49	0.6	1.9	8.0	55	100%	-	-	-	-	-	-	71
FMP1282	DFYC16THE	-	0	19	7	9.0	15	28	54	48	0.3	1.6	6.9	64	25%	69	50%	74	25%	-	-	71
FMP1283	DFYC16THS	-	0	19	7	9.0	15	28	54	48	0.3	1.6	6.9	59	100%	-	-	-	-	-	-	71
FMP1284	DFYC16THW	-	0	19	7	9.0	15	28	54	48	0.3	1.6	6.9	63	100%	-	-	-	-	-	-	71
FMP1285	DFYC18THE	-	0	18	7	9.3	16	30	53	49	0.4	1.7	7.0	63	25%	68	50%	73	25%	-	-	71

ID	Name	IT	IT	MT	MT	MT	MT	MT	LR	LR	LR	LR	Rot1	Rot1	Rot2	Rot2	Rot3	Rot3	Rot4	Rot4	FC	
		Ag	%	Ag	c.	%m	% \bar{m}	%M	Ag	c.	m	\bar{m}	M	Ag	%	Ag	%	Ag	%	Ag	%	%BR
FMP1286	DFYC18THS	-	0	18	7	9.3	16	30	53	49	0.4	1.7	7.0	57	100%	-	-	-	-	-	-	71
FMP1287	DFYC18THW	-	0	18	7	9.3	16	30	53	49	0.4	1.7	7.0	62	100%	-	-	-	-	-	-	71
FMP1288	DFYC20THE	-	0	17	7	9.6	17	32	52	49	0.3	1.6	7.2	62	25%	67	50%	72	25%	-	-	71
FMP1289	DFYC20THS	-	0	17	7	9.6	17	32	52	49	0.3	1.6	7.2	56	100%	-	-	-	-	-	-	71
FMP1290	DFYC20THW	-	0	17	7	9.6	17	32	52	49	0.3	1.6	7.2	61	100%	-	-	-	-	-	-	71
FMP1291	DFYC22THE	-	0	17	6	10	18	30	47	50	0.5	1.9	8.8	61	25%	66	50%	71	25%	-	-	71
FMP1292	DFYC22THS	-	0	17	6	10	18	30	47	50	0.5	1.9	8.8	56	100%	-	-	-	-	-	-	71
FMP1293	DFYC22THW	-	0	17	6	10	18	30	47	50	0.5	1.9	8.8	61	100%	-	-	-	-	-	-	71
FMP1294	DFYC24THE	-	0	16	6	11	19	34	46	50	1.0	2.3	9.2	61	25%	66	50%	71	25%	-	-	71
FMP1295	DFYC24THS	-	0	16	6	11	19	34	46	50	1.0	2.3	9.2	56	100%	-	-	-	-	-	-	71
FMP1296	DFYC24THW	-	0	16	6	11	19	34	46	50	1.0	2.3	9.2	61	100%	-	-	-	-	-	-	71
FMP1297	DFYC26THE	-	0	20	5	10	18	30	45	32	0.1	1.4	7.6	61	25%	66	50%	71	25%	-	-	72
FMP1298	DFYC26THS	-	0	20	5	10	18	30	45	32	0.1	1.4	7.6	56	100%	-	-	-	-	-	-	72
FMP1299	GFYC4THW	-	0	40	9	4.7	8.0	14	85	8	0.3	1.8	4.2	75	100%	-	-	-	-	-	-	67
FMP1300	GFYC6THS	-	0	33	5	6.7	10	14	58	46	0.3	1.4	5.6	60	100%	-	-	-	-	-	-	68
FMP1301	GFYC8THE	-	0	29	6	6.9	11	17	59	47	0.5	1.5	5.1	59	100%	-	-	-	-	-	-	68
FMP1302	GFYC8THS	-	0	29	6	6.9	11	17	59	47	0.5	1.5	5.1	60	100%	-	-	-	-	-	-	68
FMP1303	GFYC10THE	-	0	26	6	7.5	12	20	56	47	0.2	1.2	5.7	54	100%	-	-	-	-	-	-	68
FMP1304	GFYC10THS	-	0	26	6	7.5	12	20	56	47	0.2	1.2	5.7	60	100%	-	-	-	-	-	-	68
FMP1305	GFYC10THW	-	0	26	6	7.5	12	20	56	47	0.2	1.2	5.7	66	100%	-	-	-	-	-	-	68
FMP1306	GFYC12THE	-	0	27	5	8.2	12	19	52	18	0.1	1.6	6.0	49	100%	-	-	-	-	-	-	72
FMP1307	GFYC12THS	-	0	27	5	8.2	12	19	52	18	0.1	1.6	6.0	60	100%	-	-	-	-	-	-	72
FMP1308	GFYC12THW	-	0	27	5	8.2	12	19	52	18	0.1	1.6	6.0	61	100%	-	-	-	-	-	-	72

ID	Name	IT	IT	MT	MT	MT	MT	MT	LR	LR	LR	LR	Rot1	Rot1	Rot2	Rot2	Rot3	Rot3	Rot4	Rot4	FC	
		Ag	%	Ag	c.	%m	%m̄	%M	Ag	c.	m	m̄	M	Ag	%	Ag	%	Ag	%	Ag	%	%BR
FMP1309	GFYC14THE	-	0	25	4	10	15	21	45	21	0.1	1.9	8.5	45	100%	-	-	-	-	-	-	72
FMP1310	GFYC14THS	-	0	25	4	10	15	21	45	21	0.1	1.9	8.5	60	100%	-	-	-	-	-	-	72
FMP1311	GFYC14THW	-	0	25	4	10	15	21	45	21	0.1	1.9	8.5	56	100%	-	-	-	-	-	-	72
FMP1312	GFYC16THE	-	0	24	5	9.0	14	22	49	21	0.1	1.6	6.6	42	100%	-	-	-	-	-	-	72
FMP1313	GFYC16THS	-	0	24	5	9.0	14	22	49	21	0.1	1.6	6.6	60	100%	-	-	-	-	-	-	72
FMP1314	GFYC16THW	-	0	24	5	9.0	14	22	49	21	0.1	1.6	6.6	53	100%	-	-	-	-	-	-	72
FMP1315	GFYC18THE	-	0	23	5	9.3	15	23	48	23	0.1	1.6	6.8	40	100%	-	-	-	-	-	-	72
FMP1316	GFYC18THS	-	0	23	5	9.3	15	23	48	23	0.1	1.6	6.8	60	100%	-	-	-	-	-	-	72
FMP1317	GFYC18THW	-	0	23	5	9.3	15	23	48	23	0.1	1.6	6.8	51	100%	-	-	-	-	-	-	72
FMP1318	GFYC20THE	-	0	22	5	9.7	16	25	47	25	0.1	1.5	7.1	37	100%	-	-	-	-	-	-	72
FMP1319	GFYC20THS	-	0	22	5	9.7	16	25	47	25	0.1	1.5	7.1	60	100%	-	-	-	-	-	-	72
FMP1320	GFYC20THW	-	0	22	5	9.7	16	25	47	25	0.1	1.5	7.1	49	100%	-	-	-	-	-	-	72
FMP1321	GFYC22THE	-	0	21	5	10	17	28	46	28	0.1	1.5	7.4	37	100%	-	-	-	-	-	-	72
FMP1322	GFYC22THS	-	0	21	5	10	17	28	46	28	0.1	1.5	7.4	60	100%	-	-	-	-	-	-	72
FMP1323	GFYC22THW	-	0	21	5	10	17	28	46	28	0.1	1.5	7.4	49	100%	-	-	-	-	-	-	72
FMP1324	GFYC24THE	-	0	21	5	10	16	27	46	28	0.1	1.5	7.2	37	100%	-	-	-	-	-	-	72
FMP1325	GFYC24THS	-	0	21	5	10	16	27	46	28	0.1	1.5	7.2	60	100%	-	-	-	-	-	-	72
FMP1326	GFYC24THW	-	0	21	5	10	16	27	46	28	0.1	1.5	7.2	49	100%	-	-	-	-	-	-	72
FMP1327	GFYC26THE	-	0	20	5	10	18	30	45	32	0.1	1.4	7.6	37	100%	-	-	-	-	-	-	72
FMP1328	GFYC26THS	-	0	20	5	10	18	30	45	32	0.1	1.4	7.6	60	100%	-	-	-	-	-	-	72
FMP1329	GFYC26THW	-	0	20	5	10	18	30	45	32	0.1	1.4	7.6	49	100%	-	-	-	-	-	-	72
FMP1330	GFYC28THE	-	0	20	4	12	19	29	40	35	0.1	1.6	10	37	100%	-	-	-	-	-	-	72
FMP1331	GFYC28THS	-	0	20	4	12	19	29	40	35	0.1	1.6	10	60	100%	-	-	-	-	-	-	72

ID	Name	IT	IT	MT	MT	MT	MT	MT	LR	LR	LR	LR	Rot1	Rot1	Rot2	Rot2	Rot3	Rot3	Rot4	Rot4	FC	
		Ag	%	Ag	c.	%m	% \bar{m}	%M	Ag	c.	m	\bar{m}	M	Ag	%	Ag	%	Ag	%	Ag	%	%BR
FMP1332	GFYC28THW	-	0	20	4	12	19	29	40	35	0.1	1.6	10	49	100%	-	-	-	-	-	-	72
FMP1333	GFYC30THE	-	0	19	5	11	19	32	44	38	0.1	1.4	8.0	37	100%	-	-	-	-	-	-	72
FMP1334	GFYC30THS	-	0	19	5	11	19	32	44	38	0.1	1.4	8.0	60	100%	-	-	-	-	-	-	72
FMP1335	GFYC30THW	-	0	19	5	11	19	32	44	38	0.1	1.4	8.0	49	100%	-	-	-	-	-	-	72
FMP1336	NFYC4THE	-	0	40	9	4.7	8.0	14	85	8	0.3	1.8	4.2	75	100%	-	-	-	-	-	-	67
FMP1337	NFYC6THS	-	0	33	5	6.7	10	14	58	46	0.3	1.4	5.6	60	100%	-	-	-	-	-	-	68
FMP1338	NFYC6THW	-	0	33	5	6.7	10	14	58	46	0.3	1.4	5.6	75	100%	-	-	-	-	-	-	68
FMP1339	NFYC8THE	-	0	29	6	6.9	11	17	59	47	0.5	1.5	5.1	59	100%	-	-	-	-	-	-	68
FMP1340	NFYC8THS	-	0	29	6	6.9	11	17	59	47	0.5	1.5	5.1	60	100%	-	-	-	-	-	-	68
FMP1341	NFYC8THW	-	0	29	6	6.9	11	17	59	47	0.5	1.5	5.1	71	100%	-	-	-	-	-	-	68
FMP1342	NFYC10THE	-	0	34	7	5.9	8.0	12	69	45	0.8	1.8	4.7	54	100%	-	-	-	-	-	-	70
FMP1343	NFYC10THS	-	0	34	7	5.9	8.0	12	69	45	0.8	1.8	4.7	60	100%	-	-	-	-	-	-	70
FMP1344	NFYC10THW	-	0	34	7	5.9	8.0	12	69	45	0.8	1.8	4.7	66	100%	-	-	-	-	-	-	70
FMP1345	NFYC12THE	-	0	31	7	6.3	8.9	13	66	46	1.8	2.4	4.8	49	100%	-	-	-	-	-	-	70
FMP1346	NFYC12THS	-	0	31	7	6.3	8.9	13	66	46	1.8	2.4	4.8	60	100%	-	-	-	-	-	-	70
FMP1347	NFYC12THW	-	0	31	7	6.3	8.9	13	66	46	1.8	2.4	4.8	61	100%	-	-	-	-	-	-	70
FMP1348	NFYC14THE	-	0	29	7	6.7	10	15	64	46	1.9	2.5	5.4	45	100%	-	-	-	-	-	-	70
FMP1349	NFYC14THS	-	0	29	7	6.7	10	15	64	46	1.9	2.5	5.4	60	100%	-	-	-	-	-	-	70
FMP1350	NFYC14THW	-	0	29	7	6.7	10	15	64	46	1.9	2.5	5.4	56	100%	-	-	-	-	-	-	70
FMP1351	NFYC16THE	-	0	27	7	7.1	10	16	62	47	1.8	2.6	5.7	42	100%	-	-	-	-	-	-	70
FMP1352	NFYC16THS	-	0	27	7	7.1	10	16	62	47	1.8	2.6	5.7	60	100%	-	-	-	-	-	-	70
FMP1353	NFYC16THW	-	0	27	7	7.1	10	16	62	47	1.8	2.6	5.7	53	100%	-	-	-	-	-	-	70
FMP1354	NFYC18THE	-	0	25	7	7.5	11	18	60	47	2.5	3.0	6.1	40	100%	-	-	-	-	-	-	70

ID	Name	IT	IT	MT	MT	MT	MT	MT	LR	LR	LR	LR	Rot1	Rot1	Rot2	Rot2	Rot3	Rot3	Rot4	Rot4	FC	
		Ag	%	Ag	c.	%m	% \bar{m}	%M	Ag	c.	m	\bar{m}	M	Ag	%	Ag	%	Ag	%	Ag	%	%BR
FMP1355	NFYC18THS	-	0	25	7	7.5	11	18	60	47	2.5	3.0	6.1	60	100%	-	-	-	-	-	-	70
FMP1356	NFYC18THW	-	0	25	7	7.5	11	18	60	47	2.5	3.0	6.1	51	100%	-	-	-	-	-	-	70
FMP1357	NFYC20THE	-	0	23	7	8.0	13	21	58	48	2.6	3.2	6.8	37	100%	-	-	-	-	-	-	70
FMP1358	NFYC20THS	-	0	23	7	8.0	13	21	58	48	2.6	3.2	6.8	60	100%	-	-	-	-	-	-	70
FMP1359	NFYC20THW	-	0	23	7	8.0	13	21	58	48	2.6	3.2	6.8	49	100%	-	-	-	-	-	-	70
FMP1360	NFYC22THE	-	0	22	7	8.2	13	22	57	48	1.9	2.9	7.0	37	100%	-	-	-	-	-	-	70
FMP1361	NFYC22THS	-	0	22	7	8.2	13	22	57	48	1.9	2.9	7.0	60	100%	-	-	-	-	-	-	70
FMP1362	NFYC22THW	-	0	22	7	8.2	13	22	57	48	1.9	2.9	7.0	49	100%	-	-	-	-	-	-	70
FMP1363	NFYC24THS	-	0	21	5	10	16	27	46	28	0.1	1.5	7.2	60	100%	-	-	-	-	-	-	72
FMP1364	NFYC24THW	-	0	21	5	10	16	27	46	28	0.1	1.5	7.2	49	100%	-	-	-	-	-	-	72
FMP1365	NFYC26THS	-	0	20	5	10	18	30	45	32	0.1	1.4	7.6	60	100%	-	-	-	-	-	-	72
FMP1366	NFYC28THS	-	0	20	4	12	19	29	40	35	0.1	1.6	10	60	100%	-	-	-	-	-	-	72
FMP1367	WHYC4THE	-	0	40	9	4.7	8.0	14	85	8	0.3	1.8	4.2	59	100%	-	-	-	-	-	-	67
FMP1368	WHYC4THW	-	0	40	9	4.7	8.0	14	85	8	0.3	1.8	4.2	75	100%	-	-	-	-	-	-	67
FMP1369	WHYC6THE	-	0	33	5	6.7	10	14	58	46	0.3	1.4	5.6	61	100%	-	-	-	-	-	-	68
FMP1370	WHYC6THS	-	0	33	5	6.7	10	14	58	46	0.3	1.4	5.6	60	100%	-	-	-	-	-	-	68
FMP1371	WHYC6THW	-	0	33	5	6.7	10	14	58	46	0.3	1.4	5.6	75	100%	-	-	-	-	-	-	68
FMP1372	WHYC8THE	-	0	29	6	6.9	11	17	59	47	0.5	1.5	5.1	59	100%	-	-	-	-	-	-	68
FMP1373	WHYC8THS	-	0	29	6	6.9	11	17	59	47	0.5	1.5	5.1	60	100%	-	-	-	-	-	-	68
FMP1374	WHYC8THW	-	0	29	6	6.9	11	17	59	47	0.5	1.5	5.1	71	100%	-	-	-	-	-	-	68
FMP1375	WHYC10THE	-	0	26	6	7.5	12	20	56	47	0.2	1.2	5.7	54	100%	-	-	-	-	-	-	68
FMP1376	WHYC10THS	-	0	26	6	7.5	12	20	56	47	0.2	1.2	5.7	60	100%	-	-	-	-	-	-	68
FMP1377	WHYC10THW	-	0	26	6	7.5	12	20	56	47	0.2	1.2	5.7	66	100%	-	-	-	-	-	-	68

ID	Name	IT	IT	MT	MT	MT	MT	MT	LR	LR	LR	LR	Rot1	Rot1	Rot2	Rot2	Rot3	Rot3	Rot4	Rot4	FC	
		Ag	%	Ag	c.	%m	% \bar{m}	%M	Ag	c.	m	\bar{m}	M	Ag	%	Ag	%	Ag	%	Ag	%	%BR
FMP1378	WHYC12THE	-	0	28	8	7.1	12	23	68	46	1.1	2.4	6.0	49	100%	-	-	-	-	-	-	76
FMP1379	WHYC12THS	-	0	28	8	7.1	12	23	68	46	1.1	2.4	6.0	60	100%	-	-	-	-	-	-	76
FMP1380	WHYC12THW	-	0	28	8	7.1	12	23	68	46	1.1	2.4	6.0	61	100%	-	-	-	-	-	-	76
FMP1381	WHYC14THE	-	0	26	7	7.9	13	23	61	47	3.1	3.6	6.9	45	100%	-	-	-	-	-	-	76
FMP1382	WHYC14THS	-	0	26	7	7.9	13	23	61	47	3.1	3.6	6.9	60	100%	-	-	-	-	-	-	76
FMP1383	WHYC14THW	-	0	26	7	7.9	13	23	61	47	3.1	3.6	6.9	56	100%	-	-	-	-	-	-	76
FMP1384	WHYC16THE	-	0	24	8	7.7	13	23	64	46	1.4	2.7	6.4	42	100%	-	-	-	-	-	-	76
FMP1385	WHYC16THS	-	0	24	8	7.7	13	23	64	46	1.4	2.7	6.4	60	100%	-	-	-	-	-	-	76
FMP1386	WHYC16THW	-	0	24	8	7.7	13	23	64	46	1.4	2.7	6.4	53	100%	-	-	-	-	-	-	76
FMP1387	WHYC18THE	-	0	22	7	8.8	14	26	57	48	1.1	2.6	7.6	40	100%	-	-	-	-	-	-	76
FMP1388	WHYC18THS	-	0	22	7	8.8	14	26	57	48	1.1	2.6	7.6	60	100%	-	-	-	-	-	-	76
FMP1389	WHYC18THW	-	0	22	7	8.8	14	26	57	48	1.1	2.6	7.6	51	100%	-	-	-	-	-	-	76
FMP1390	WHYC20THE	-	0	21	6	9.7	15	25	51	49	2.2	3.3	8.8	37	100%	-	-	-	-	-	-	76
FMP1391	WHYC20THS	-	0	21	6	9.7	15	25	51	49	2.2	3.3	-	60	100%	-	-	-	-	-	-	76
FMP1392	WHYC20THW	-	0	21	6	9.7	15	25	51	49	2.2	3.3	-	49	100%	-	-	-	-	-	-	76
FMP1393	WHYC22THE	-	0	20	6	10	16	25	50	49	1.9	3.3	-	37	100%	-	-	-	-	-	-	76
FMP1394	WHYC22THS	-	0	20	6	10	16	25	50	49	1.9	3.3	-	60	100%	-	-	-	-	-	-	76
FMP1395	WHYC22THW	-	0	20	6	10	16	25	50	49	1.9	3.3	-	49	100%	-	-	-	-	-	-	76
FMP1396	WHYC24THE	-	0	19	6	10	16	26	49	49	1.4	3.0	-	37	100%	-	-	-	-	-	-	76
FMP1397	WHYC24THS	-	0	19	6	10	16	26	49	49	1.4	3.0	-	60	100%	-	-	-	-	-	-	76
FMP1398	WHYC24THW	-	0	19	6	10	16	26	49	49	1.4	3.0	-	49	100%	-	-	-	-	-	-	76
FMP1399	WHYC26THS	-	0	20	5	10	18	30	45	32	0.1	1.4	7.6	60	100%	-	-	-	-	-	-	72
FMP1400	WHYC26THW	-	0	20	5	10	18	30	45	32	0.1	1.4	7.6	49	100%	-	-	-	-	-	-	72

ID	Name	IT	IT	MT	MT	MT	MT	MT	LR	LR	LR	LR	Rot1	Rot1	Rot2	Rot2	Rot3	Rot3	Rot4	Rot4	FC	
		Ag	%	Ag	c.	%m	% \bar{m}	%M	Ag	c.	m	\bar{m}	M	Ag	%	Ag	%	Ag	%	Ag	%	%BR
FMP1401	RCYC4THE	-	0	40	9	4.7	8.0	14	85	8	0.3	1.8	4.2	59	100%	-	-	-	-	-	-	67
FMP1402	RCYC4THW	-	0	40	9	4.7	8.0	14	85	8	0.3	1.8	4.2	75	100%	-	-	-	-	-	-	67
FMP1403	RCYC6THE	-	0	33	5	6.7	10	14	58	46	0.3	1.4	5.6	61	100%	-	-	-	-	-	-	68
FMP1404	RCYC6THS	-	0	33	5	6.7	10	14	58	46	0.3	1.4	5.6	60	100%	-	-	-	-	-	-	68
FMP1405	RCYC6THW	-	0	33	5	6.7	10	14	58	46	0.3	1.4	5.6	75	100%	-	-	-	-	-	-	68
FMP1406	RCYC8THE	-	0	29	6	6.9	11	17	59	47	0.5	1.5	5.1	59	100%	-	-	-	-	-	-	68
FMP1407	RCYC8THS	-	0	29	6	6.9	11	17	59	47	0.5	1.5	5.1	60	100%	-	-	-	-	-	-	68
FMP1408	RCYC8THW	-	0	29	6	6.9	11	17	59	47	0.5	1.5	5.1	71	100%	-	-	-	-	-	-	68
FMP1409	RCYC10THE	-	0	26	6	7.5	12	20	56	47	0.2	1.2	5.7	54	100%	-	-	-	-	-	-	68
FMP1410	RCYC10THS	-	0	26	6	7.5	12	20	56	47	0.2	1.2	5.7	60	100%	-	-	-	-	-	-	68
FMP1411	RCYC10THW	-	0	26	6	7.5	12	20	56	47	0.2	1.2	5.7	66	100%	-	-	-	-	-	-	68
FMP1412	RCYC12THE	-	0	30	7	6.4	9.5	15	65	46	1.1	1.9	4.8	49	100%	-	-	-	-	-	-	67
FMP1413	RCYC12THS	-	0	30	7	6.4	9.5	15	65	46	1.1	1.9	4.8	60	100%	-	-	-	-	-	-	67
FMP1414	RCYC12THW	-	0	30	7	6.4	9.5	15	65	46	1.1	1.9	4.8	61	100%	-	-	-	-	-	-	67
FMP1415	RCYC14THE	-	0	28	7	6.7	10	16	63	47	0.4	1.5	5.4	45	100%	-	-	-	-	-	-	67
FMP1416	RCYC14THS	-	0	28	7	6.7	10	16	63	47	0.4	1.5	5.4	60	100%	-	-	-	-	-	-	67
FMP1417	RCYC14THW	-	0	28	7	6.7	10	16	63	47	0.4	1.5	5.4	56	100%	-	-	-	-	-	-	67
FMP1418	RCYC16THE	-	0	28	7	6.7	10	16	63	47	0.4	1.5	5.4	42	100%	-	-	-	-	-	-	67
FMP1419	RCYC16THS	-	0	28	7	6.7	10	16	63	47	0.4	1.5	5.4	60	100%	-	-	-	-	-	-	67
FMP1420	RCYC16THW	-	0	28	7	6.7	10	16	63	47	0.4	1.5	5.4	53	100%	-	-	-	-	-	-	67
FMP1421	RCYC18THE	-	0	24	7	7.6	12	20	59	47	0.7	2.0	6.1	40	100%	-	-	-	-	-	-	67
FMP1422	RCYC18THS	-	0	24	7	7.6	12	20	59	47	0.7	2.0	6.1	60	100%	-	-	-	-	-	-	67
FMP1423	RCYC18THW	-	0	24	7	7.6	12	20	59	47	0.7	2.0	6.1	51	100%	-	-	-	-	-	-	67

ID	Name	IT	IT	MT	MT	MT	MT	MT	LR	LR	LR	LR	Rot1	Rot1	Rot2	Rot2	Rot3	Rot3	Rot4	Rot4	FC	
		Ag	%	Ag	c.	%m	% \bar{m}	%M	Ag	c.	m	\bar{m}	M	Ag	%	Ag	%	Ag	%	Ag	%	%BR
FMP1424	RCYC20THE	-	0	23	7	7.8	12	21	58	48	0.7	2.0	6.2	37	100%	-	-	-	-	-	-	67
FMP1425	RCYC20THS	-	0	23	7	7.8	12	21	58	48	0.7	2.0	6.2	60	100%	-	-	-	-	-	-	67
FMP1426	RCYC20THW	-	0	23	7	7.8	12	21	58	48	0.7	2.0	6.2	49	100%	-	-	-	-	-	-	67
FMP1427	RCYC22THE	-	0	22	6	8.7	13	22	52	49	1.1	2.3	7.5	37	100%	-	-	-	-	-	-	67
FMP1428	RCYC22THS	-	0	22	6	8.7	13	22	52	49	1.1	2.3	7.5	60	100%	-	-	-	-	-	-	67
FMP1429	RCYC22THW	-	0	22	6	8.7	13	22	52	49	1.1	2.3	7.5	49	100%	-	-	-	-	-	-	67
FMP1430	RCYC24THE	-	0	21	6	9.0	14	23	51	49	1.0	2.3	7.6	37	100%	-	-	-	-	-	-	67
FMP1431	RCYC24THS	-	0	21	6	9.0	14	23	51	49	1.0	2.3	7.6	60	100%	-	-	-	-	-	-	67
FMP1432	RCYC24THW	-	0	21	6	9.0	14	23	51	49	1.0	2.3	7.6	49	100%	-	-	-	-	-	-	67
FMP1433	OKYC2THESW	35	12	40	14	4.7	6.5	11	110	22	0.3	1.9	4.4	140	50%	160	50%	-	-	-	-	73
FMP1434	OKYC4THESW	35	12	40	14	4.7	6.5	11	110	22	0.3	1.9	4.4	120	33%	140	34%	160	33%	-	-	73
FMP1435	OKYC6THESW	25	9	30	14	5.5	8.2	16	100	39	0.4	2.1	5.3	100	33%	120	34%	140	33%	-	-	73
FMP1436	OKYC8THESW	20	6	25	14	6.2	10	20	95	40	2.4	3.6	6.1	100	50%	120	50%	-	-	-	-	73
FMP1437	AHYC2THESW	20	12	25	5	8.0	11	18	50	11	0.5	2.3	6.0	65	50%	80	50%	-	-	-	-	68
FMP1438	AHYC4THESW	20	12	25	5	8.0	11	18	50	11	0.5	2.3	6.0	65	50%	80	50%	-	-	-	-	68
FMP1439	AHYC6THESW	-	0	20	5	9.4	15	25	45	19	0.3	2.0	7.6	50	33%	65	34%	80	33%	-	-	68
FMP1440	AHYC8THESW	15	28	20	5	10	15	24	45	28	0.2	1.6	7.3	50	33%	65	34%	80	33%	-	-	68
FMP1441	AHYC10THESW	15	33	20	5	10	15	23	45	37	0.2	1.4	6.8	50	33%	65	34%	71	33%	-	-	68
FMP1442	AHYC12THESW	10	24	15	5	12	20	34	40	48	0.2	1.5	10	50	50%	65	50%	-	-	-	-	68
FMP1443	BEYC2THW	35	13	40	14	4.4	7.4	15	110	37	2.7	3.1	4.0	120	50%	140	50%	-	-	-	-	71
FMP1444	BEYC4THESW	35	13	40	14	4.4	7.4	15	110	37	2.7	3.1	4.0	120	50%	140	50%	-	-	-	-	71
FMP1445	BEYC6THESW	30	11	35	12	5.1	8.4	15	95	40	2.7	3.1	4.7	95	33%	120	34%	140	33%	-	-	71
FMP1446	BEYC8THESW	25	6.6	30	11	5.7	9.5	17	85	42	2.8	3.3	5.4	95	33%	120	34%	140	33%	-	-	71

ID	Name	IT	IT	MT	MT	MT	MT	MT	LR	LR	LR	LR	Rot1	Rot1	Rot2	Rot2	Rot3	Rot3	Rot4	Rot4	FC	
		Ag	%	Ag	c.	%m	% \bar{m}	%M	Ag	c.	m	\bar{m}	M	Ag	%	Ag	%	Ag	%	Ag	%	%BR
FMP1447	BEYC10THESW	25	17	30	10	6.2	10	17	80	43	3.1	3.7	5.8	95	50%	115	50%	-	-	-	-	71
FMP1448	BEYC12THW	-	0	23	8	7.2	12	21	63	25	0.1	1.6	6.1	95	50%	115	50%	-	-	-	-	67
FMP1449	BIYC2THESW	20	12	25	5	8.0	11	18	50	11	0.5	2.3	6.0	65	50%	75	50%	-	-	-	-	68
FMP1450	BIYC4THESW	20	12	25	5	8.0	11	18	50	11	0.5	2.3	6.0	65	50%	75	50%	-	-	-	-	68
FMP1451	BIYC6THESW	-	0	20	5	9.4	15	25	45	19	0.3	2.0	7.6	60	50%	75	50%	-	-	-	-	68
FMP1452	BIYC8THESW	15	28	20	5	10	15	24	45	28	0.2	1.6	7.3	60	50%	70	50%	-	-	-	-	68
FMP1453	BIYC10THESW	15	33	20	5	10	15	23	45	37	0.2	1.4	6.8	50	50%	65	50%	-	-	-	-	68
FMP1454	BIYC12THESW	10	24	15	5	12	20	34	40	48	0.2	1.5	10	50	50%	65	50%	-	-	-	-	68
FMP1455	SYYC2THESW	20	12	25	5	8.0	11	18	50	11	0.5	2.3	6.0	65	50%	75	50%	-	-	-	-	68
FMP1456	SYYC4THESW	20	12	25	5	8.0	11	18	50	11	0.5	2.3	6.0	65	50%	75	50%	-	-	-	-	68
FMP1457	SYYC6THESW	-	0	20	5	9.4	15	25	45	19	0.3	2.0	7.6	60	50%	75	50%	-	-	-	-	68
FMP1458	SYYC8THESW	15	28	20	5	10	15	24	45	28	0.2	1.6	7.3	60	50%	70	50%	-	-	-	-	68
FMP1459	SYYC10THESW	15	33	20	5	10	15	23	45	37	0.2	1.4	6.8	50	50%	65	50%	-	-	-	-	68
FMP1460	SYYC12THESW	10	24	15	5	12	20	34	40	48	0.2	1.5	10	50	50%	65	50%	-	-	-	-	68
FMP1461	POYC2THESW	20	12	25	5	7.8	11	17	50	11	0.5	2.2	5.9	50	50%	60	50%	-	-	-	-	67
FMP1462	POYC4THESW	20	12	25	5	7.8	11	17	50	11	0.5	2.2	5.9	40	50%	50	50%	-	-	-	-	67
FMP1463	POYC6THESW	-	0	20	5	9.2	15	25	45	19	0.3	1.9	7.4	40	50%	50	50%	-	-	-	-	67
FMP1464	POYC8THESW	15	27	20	5	9.7	15	23	45	28	0.2	1.6	7.1	35	50%	45	50%	-	-	-	-	67
FMP1465	POYC10THESW	15	33	20	5	10	15	23	45	37	0.2	1.4	6.7	35	50%	45	50%	-	-	-	-	67
FMP1466	POYC12THESW	10	24	15	5	12	20	33	40	48	0.2	1.5	10	35	50%	45	50%	-	-	-	-	67
FMP1467	POYC14THE	-	0	21	7	8.4	14	23	56	28	0.1	1.8	7.3	35	50%	45	50%	-	-	-	-	67
FMP1468	NOYC2THES	20	12	25	5	8.0	11	18	50	11	0.5	2.3	6.0	50	50%	60	50%	-	-	-	-	68
FMP1469	NOYC4THES	20	12	25	5	8.0	11	18	50	11	0.5	2.3	6.0	50	50%	60	50%	-	-	-	-	68

ID	Name	IT	IT	MT	MT	MT	MT	MT	LR	LR	LR	LR	Rot1	Rot1	Rot2	Rot2	Rot3	Rot3	Rot4	Rot4	FC	
		Ag	%	Ag	c.	%m	% \bar{m}	%M	Ag	c.	m	\bar{m}	M	Ag	%	Ag	%	Ag	%	Ag	%	%BR
FMP1470	NOYC6THES	-	0	20	5	9.4	15	25	45	19	0.3	2.0	7.6	40	50%	50	50%	-	-	-	-	68
FMP1471	NOYC8THES	15	28	20	5	10	15	24	45	28	0.2	1.6	7.3	40	50%	50	50%	-	-	-	-	68
FMP1472	NOYC10THES	-	0	18	4	11	16	23	38	29	0.1	2.1	9.9	40	50%	50	50%	-	-	-	-	70
FMP1473	NOYC12THES	-	0	16	4	12	17	24	36	31	0.1	2.1	10	30	50%	40	50%	-	-	-	-	70
FMP1474	NOYC14THE	-	0	14	4	13	18	26	34	34	0.1	2.1	11	30	50%	40	50%	-	-	-	-	70
FMP1475	NOYC18THE	-	0	12	3	17	22	29	27	44	0.1	2.4	14	25	50%	30	50%	-	-	-	-	70

Public and private forest estate (Northern Ireland): Forest Management Practices involving clearcutting with no thinning during the rotation

Note that five rotations are assigned for each FMP. Equal proportions of forest area within a stratum are assigned to each of the 5 rotations.

Index	Name of practice	Silvicultural operations with final harvesting – No thinning						% BR	
		Final cutting – equal proportion each rotation							
		Age (years)	Rot. 1	Rot. 2	Rot. 3	Rot. 4	Rot. 5		
FMP1476	NSYC6NTNI	81	57	58	59	60	66		
FMP1477	NSYC8NTNI	70	57	58	59	60	66		
FMP1478	NSYC10NTNI	66	57	58	59	60	66		
FMP1479	NSYC12NTNI	59	57	58	59	60	66		
FMP1480	NSYC14NTNI	56	57	58	59	60	66		
FMP1481	NSYC16NTNI	50	57	58	59	60	66		
FMP1482	NSYC18NTNI	48	57	58	59	60	66		
FMP1483	NSYC20NTNI	47	57	58	59	60	66		
FMP1484	NSYC22NTNI	51	57	58	59	60	66		
FMP1485	SSYC6NTNI	37	57	58	59	60	68		
FMP1486	SSYC8NTNI	34	57	58	59	60	68		
FMP1487	SSYC10NTNI	32	57	58	59	60	68		
FMP1488	SSYC12NTNI	31	57	58	59	60	68		
FMP1489	SSYC14NTNI	29	57	58	59	60	68		
FMP1490	SSYC16NTNI	29	57	58	59	60	68		
FMP1491	SSYC18NTNI	28	57	58	59	60	68		
FMP1492	SSYC20NTNI	28	57	58	59	60	68		
FMP1493	SSYC22NTNI	27	57	58	59	60	68		
FMP1494	SPYC4NTNI	80	57	58	59	60	67		
FMP1495	SPYC6NTNI	70	57	58	59	60	67		
FMP1496	SPYC8NTNI	61	57	58	59	60	67		
FMP1497	SPYC10NTNI	57	57	58	59	60	67		
FMP1498	SPYC12NTNI	59	57	58	59	60	67		
FMP1499	SPYC14NTNI	57	57	58	59	60	67		
FMP1500	CPYC6NTNI	56	57	58	59	60	73		

Forest management practice		Silvicultural operations with final harvesting – No thinning						
Index	Name of practice	Final cutting – equal proportion each rotation						% BR
		Age (years)	Rot. 1	Rot. 2	Rot. 3	Rot. 4	Rot. 5	% BR
FMP1501	CPYC8NTNI	50	57	58	59	60	73	
FMP1502	CPYC10NTNI	47	57	58	59	60	73	
FMP1503	CPYC12NTNI	44	57	58	59	60	73	
FMP1504	CPYC14NTNI	37	57	58	59	60	73	
FMP1505	CPYC16NTNI	36	57	58	59	60	73	
FMP1506	CPYC18NTNI	35	57	58	59	60	73	
FMP1507	LPYC4NTNI	79	57	58	59	60	67	
FMP1508	LPYC6NTNI	59	57	58	59	60	67	
FMP1509	LPYC8NTNI	48	57	58	59	60	67	
FMP1510	LPYC10NTNI	40	57	58	59	60	67	
FMP1511	LPYC12NTNI	37	57	58	59	60	67	
FMP1512	LPYC14NTNI	35	57	58	59	60	67	
FMP1513	ELYC6NTNI	46	57	58	59	60	80	
FMP1514	ELYC8NTNI	42	57	58	59	60	80	
FMP1515	ELYC10NTNI	40	57	58	59	60	80	
FMP1516	ELYC12NTNI	38	57	58	59	60	80	
FMP1517	JLYC4NTNI	41	57	58	59	60	76	
FMP1518	JLYC6NTNI	32	57	58	59	60	76	
FMP1519	JLYC8NTNI	29	57	58	59	60	76	
FMP1520	JLYC10NTNI	27	57	58	59	60	76	
FMP1521	JLYC12NTNI	25	57	58	59	60	76	
FMP1522	JLYC14NTNI	24	57	58	59	60	76	
FMP1523	DFYC12NTNI	43	57	58	59	60	71	
FMP1524	DFYC14NTNI	41	57	58	59	60	71	
FMP1525	DFYC16NTNI	34	57	58	59	60	71	
FMP1526	DFYC18NTNI	33	57	58	59	60	71	
FMP1527	DFYC20NTNI	32	57	58	59	60	71	
FMP1528	DFYC22NTNI	32	57	58	59	60	71	
FMP1529	GFYC14NTNI	45	57	58	59	60	72	
FMP1530	NFYC10NTNI	64	57	58	59	60	70	
FMP1531	NFYC12NTNI	66	57	58	59	60	70	
FMP1532	NFYC14NTNI	59	57	58	59	60	70	
FMP1533	NFYC16NTNI	57	57	58	59	60	70	

Forest management practice		Silvicultural operations with final harvesting – No thinning						
Index	Name of practice	Final cutting – equal proportion each rotation						% BR
		Age (years)	Rot. 1	Rot. 2	Rot. 3	Rot. 4	Rot. 5	% BR
FMP1534	NFYC18NTNI	60	57	58	59	60	70	
FMP1535	NFYC20NTNI	58	57	58	59	60	70	
FMP1536	WHYC12NTNI	73	57	58	59	60	76	
FMP1537	WHYC14NTNI	61	57	58	59	60	76	
FMP1538	WHYC16NTNI	54	57	58	59	60	76	
FMP1539	WHYC18NTNI	52	57	58	59	60	76	
FMP1540	RCYC12NTNI	60	57	58	59	60	67	
FMP1541	RCYC14NTNI	58	57	58	59	60	67	
FMP1542	RCYC16NTNI	56	57	58	59	60	67	
FMP1543	RCYC18NTNI	54	57	58	59	60	67	
FMP1544	OKYC4NTNI	90	-	-	-	-	-	73
FMP1545	OKYC6NTNI	80	-	-	-	-	-	73
FMP1546	OKYC8NTNI	70	-	-	-	-	-	73
FMP1547	AHYC4NTNI	50	-	-	-	-	-	68
FMP1548	AHYC6NTNI	45	-	-	-	-	-	68
FMP1549	AHYC8NTNI	45	-	-	-	-	-	68
FMP1550	AHYC10NTNI	40	-	-	-	-	-	68
FMP1551	AHYC12NTNI	40	-	-	-	-	-	68
FMP1552	BEYC4NTNI	105	-	-	-	-	-	71
FMP1553	BEYC6NTNI	95	-	-	-	-	-	71
FMP1554	BEYC8NTNI	85	-	-	-	-	-	71
FMP1555	BEYC10NTNI	80	-	-	-	-	-	71
FMP1556	BIYC4NTNI	50	-	-	-	-	-	68
FMP1557	BIYC6NTNI	45	-	-	-	-	-	68
FMP1558	BIYC8NTNI	45	-	-	-	-	-	68
FMP1559	BIYC10NTNI	40	-	-	-	-	-	68
FMP1560	SYYC4NTNI	50	-	-	-	-	-	68
FMP1561	SYYC6NTNI	45	-	-	-	-	-	68
FMP1562	SYYC8NTNI	45	-	-	-	-	-	68
FMP1563	SYYC10NTNI	40	-	-	-	-	-	68
FMP1564	SYYC12NTNI	40	-	-	-	-	-	68
FMP1565	POYC4NTNI	39	-	-	-	-	-	67
FMP1566	POYC6NTNI	36	-	-	-	-	-	67

Forest management practice		Silvicultural operations with final harvesting – No thinning						
Index	Name of practice	Final cutting – equal proportion each rotation						% BR
		Age (years)	Rot. 1	Rot. 2	Rot. 3	Rot. 4	Rot. 5	% BR
FMP1567	POYC8NTNI	39	-	-	-	-	-	67
FMP1568	POYC10NTNI	37	-	-	-	-	-	67
FMP1569	POYC14NTNI	39	-	-	-	-	-	67
FMP1570	NOYC10NTNI	43	-	-	-	-	-	70

Public and private forest estate (Northern Ireland): Forest Management Practices involving clearcutting with thinning during the rotation

Note that up to five rotations are assigned for each FMP. Equal proportions of forest area within a stratum are assigned to each of the (up to 5) rotations.

Forest management practice		Silvicultural operations with final harvesting – Thinning																			
Index	Name of practice	Initial thinning		Main thinnings					Late-rotation thinnings					Final cutting - Equal proportion each rotation							
		Age (years)	% biomass removals	Age of first (years)	Number of (5 year cycles)	% biomass removals			Age of first (years)	Number of (5 year cycles)	% biomass removals			Age (years)				% biomass removals			
ID	Name					Min.	Mea n	Max.			Min.	Mea n	Max.	Rotation 1	Rotation 2	Rotation 3	Rotation 4	Rotation 5			
	IT Ag	IT %	MT Ag	MT c.	MT% m	MT % \bar{m}	MT %M	LR Ag	LR c.	LR m	LR \bar{m}	LR M	FC Rot1	FC Rot2	FC Rot3	FC Rot4	FC Rot5	FC %			

ID	Name	IT	IT	MT	MT	MT	MT	MT	LR	LR	LR	LR	FC	FC	FC	FC	FC		
		Ag	%	Ag	c.	%m	% \bar{m}	%M	Ag	c.	%m	% \bar{m}	%M	Rot1	Rot2	Rot3	Rot4	Rot5 %	
FMP1571	NSYC6THNI	-	0	35	7	6.1	10	16	70	34	0.1	1.1	5.2	86	57	58	59	60	66
FMP1572	NSYC8THNI	-	0	31	8	5.9	10	17	71	45	0.4	1.4	4.5	75	57	58	59	60	66
FMP1573	NSYC10THNI	-	0	28	8	6.3	11	20	68	46	0.3	1.4	5.1	71	57	58	59	60	66
FMP1574	NSYC12THNI	-	0	26	8	6.6	12	22	66	46	0.8	1.8	5.6	69	57	58	59	60	66
FMP1575	NSYC14THNI	-	0	24	9	6.5	12	24	69	45	0.5	1.6	5.0	61	57	58	59	60	66
FMP1576	NSYC16THNI	-	0	23	8	7.1	13	25	63	47	0.2	1.4	6.1	60	57	58	59	60	66
FMP1577	NSYC18THNI	-	0	22	8	7.3	13	26	62	47	0.2	1.4	6.3	58	57	58	59	60	66
FMP1578	NSYC20THNI	-	0	21	8	7.5	14	28	61	47	0.1	1.3	6.6	57	57	58	59	60	66
FMP1579	NSYC22THNI	-	0	20	8	7.8	15	30	60	44	0.1	1.2	6.8	56	57	58	59	60	66
FMP1580	SSYC6THNI	-	0	33	5	6.7	10	14	58	46	0.3	1.4	5.6	60	57	58	59	60	68
FMP1581	SSYC8THNI	-	0	29	6	6.9	11	17	59	47	0.5	1.5	5.1	55	57	58	59	60	68
FMP1582	SSYC10THNI	-	0	26	6	7.5	12	20	56	47	0.2	1.2	5.7	52	57	58	59	60	68
FMP1583	SSYC12THNI	-	0	24	6	8.0	13	22	54	44	0.1	1.2	6.2	50	57	58	59	60	68
FMP1584	SSYC14THNI	-	0	22	6	8.5	15	25	52	38	0.1	1.3	6.7	48	57	58	59	60	68
FMP1585	SSYC16THNI	-	0	21	6	8.7	15	26	51	41	0.1	1.3	6.8	47	57	58	59	60	68
FMP1586	SSYC18THNI	-	0	20	5	10	17	26	45	42	0.1	1.5	8.8	46	57	58	59	60	68
FMP1587	SSYC20THNI	-	0	19	6	9.2	16	27	49	40	0.1	1.3	7.1	40	57	58	59	60	68
FMP1588	SSYC22THNI	-	0	18	6	9.5	16	28	48	39	0.1	1.4	7.3	39	57	58	59	60	68
FMP1589	SPYC4THNI	-	0	40	9	4.7	8.0	14	85	8	0.3	1.8	4.2	85	57	58	59	60	67
FMP1590	SPYC6THNI	-	0	33	10	5.1	8.7	16	83	12	0.2	1.4	3.9	75	57	58	59	60	67
FMP1591	SPYC8THNI	-	0	29	9	5.9	10	18	74	16	0.1	1.5	4.9	66	57	58	59	60	67
FMP1592	SPYC10THNI	-	0	25	8	6.9	12	21	65	20	0.1	1.8	6.1	62	57	58	59	60	67
FMP1593	SPYC12THNI	-	0	23	8	7.2	12	21	63	25	0.1	1.6	6.1	59	57	58	59	60	67

ID	Name	IT	IT	MT	MT	MT	MT	MT	LR	LR	LR	LR	FC	FC	FC	FC	FC		
		Ag	%	Ag	c.	%m	% \bar{m}	%M	Ag	c.	%m	% \bar{m}	%M	Rot1	Rot2	Rot3	Rot4	Rot5 %	
FMP1594	SPYC14THNI	-	0	21	7	8.4	14	23	56	28	0.1	1.8	7.3	57	57	58	59	60	67
FMP1595	CPYC6THNI	-	0	33	6	6.6	8.8	12	63	47	0.5	1.7	5.3	61	57	58	59	60	73
FMP1596	CPYC8THNI	-	0	28	6	7.6	10	15	58	48	0.7	1.8	6.1	55	57	58	59	60	73
FMP1597	CPYC10THNI	-	0	25	6	8.3	12	17	55	48	0.8	2.0	6.8	52	57	58	59	60	73
FMP1598	CPYC12THNI	-	0	23	6	8.8	13	19	53	49	0.8	2.0	7.1	49	57	58	59	60	73
FMP1599	CPYC14THNI	-	0	21	6	9.5	14	22	51	49	1.8	2.5	7.8	47	57	58	59	60	73
FMP1600	CPYC16THNI	-	0	20	5	11	16	23	45	50	1.2	2.3	9.5	46	57	58	59	60	73
FMP1601	CPYC18THNI	-	0	19	6	10	16	25	49	49	1.4	2.3	8.1	45	57	58	59	60	73
FMP1602	LPYC4THNI	-	0	40	5	5.4	6.5	7.9	65	46	1.1	1.8	4.9	84	57	58	59	60	67
FMP1603	LPYC6THNI	-	0	31	7	6.0	7.9	11	66	46	1.6	2.3	4.8	64	57	58	59	60	67
FMP1604	LPYC8THNI	-	0	26	7	6.8	10	14	61	47	1.8	2.6	5.6	58	57	58	59	60	67
FMP1605	LPYC10THNI	-	0	23	7	7.4	11	17	58	48	2.4	3.0	6.2	50	57	58	59	60	67
FMP1606	LPYC12THNI	-	0	21	7	7.9	12	19	56	48	2.2	2.9	6.6	47	57	58	59	60	67
FMP1607	LPYC14THNI	-	0	19	7	8.4	13	23	54	48	1.2	2.5	7.0	45	57	58	59	60	67
FMP1608	ELYC6THNI	-	0	26	5	9.1	13	18	51	16	0.3	2.4	7.9	46	57	58	59	60	80
FMP1609	ELYC8THNI	-	0	22	6	9.6	14	22	52	20	0.3	2.1	7.1	42	57	58	59	60	80
FMP1610	ELYC10THNI	-	0	20	5	11	16	24	45	27	0.2	2.3	9.2	40	57	58	59	60	80
FMP1611	ELYC12THNI	-	0	18	5	12	18	26	43	34	0.2	2.2	9.9	38	57	58	59	60	80
FMP1612	JLYC4THNI	-	0	26	5	8.5	12	18	51	49	1.6	1.9	6.2	46	57	58	59	60	76
FMP1613	JLYC6THNI	-	0	22	5	9.7	14	21	47	50	2.7	3.6	7.9	42	57	58	59	60	76
FMP1614	JLYC8THNI	-	0	19	6	10	15	25	49	49	3.3	4.5	8.6	34	57	58	59	60	76
FMP1615	JLYC10THNI	-	0	17	5	12	18	28	42	45	4.2	10	76	32	57	58	59	60	76
FMP1616	JLYC12THNI	-	0	15	5	13	20	33	40	42	4.6	10	76	30	57	58	59	60	76

ID	Name	IT	IT	MT	MT	MT	MT	MT	LR	LR	LR	LR	FC	FC	FC	FC	FC		
		Ag	%	Ag	c.	%m	% \bar{m}	%M	Ag	c.	%m	% \bar{m}	%M	Rot1	Rot2	Rot3	Rot4	Rot5 %	
FMP1617	JLYC14THNI	-	0	14	6	12	20	34	44	46	4.7	10	76	29	57	58	59	60	76
FMP1618	DFYC12THNI	-	0	23	7	7.9	12	21	58	48	0.4	1.6	6.0	48	57	58	59	60	71
FMP1619	DFYC14THNI	-	0	21	6	9.1	15	24	51	49	0.6	1.9	8.0	46	57	58	59	60	71
FMP1620	DFYC16THNI	-	0	19	7	9.0	15	28	54	48	0.3	1.6	6.9	44	57	58	59	60	71
FMP1621	DFYC18THNI	-	0	18	7	9.3	16	30	53	49	0.4	1.7	7.0	43	57	58	59	60	71
FMP1622	DFYC20THNI	-	0	17	7	9.6	17	32	52	49	0.3	1.6	7.2	42	57	58	59	60	71
FMP1623	DFYC22THNI	-	0	17	6	10	18	30	47	50	0.5	1.9	8.8	42	57	58	59	60	71
FMP1624	GFYC14THNI	-	0	25	4	10	15	21	45	21	0.1	1.9	8.5	45	57	58	59	60	72
FMP1625	NFYC10THNI	-	0	34	7	5.9	8.0	12	69	45	0.8	1.8	4.7	64	57	58	59	60	70
FMP1626	NFYC12THNI	-	0	31	7	6.3	8.9	13	66	46	1.8	2.4	4.8	66	57	58	59	60	70
FMP1627	NFYC14THNI	-	0	29	7	6.7	10	15	64	46	1.9	2.5	5.4	59	57	58	59	60	70
FMP1628	NFYC16THNI	-	0	27	7	7.1	10	16	62	47	1.8	2.6	5.7	57	57	58	59	60	70
FMP1629	NFYC18THNI	-	0	25	7	7.5	11	18	60	47	2.5	3.0	6.1	60	57	58	59	60	70
FMP1630	NFYC20THNI	-	0	23	7	8.0	13	21	58	48	2.6	3.2	6.8	58	57	58	59	60	70
FMP1631	WHYC12THNI	-	0	28	8	7.1	12	23	68	46	1.1	2.4	6.0	73	57	58	59	60	76
FMP1632	WHYC14THNI	-	0	26	7	7.9	13	23	61	47	3.1	3.6	6.9	61	57	58	59	60	76
FMP1633	WHYC16THNI	-	0	24	8	7.7	13	23	64	46	1.4	2.7	6.4	54	57	58	59	60	76
FMP1634	WHYC18THNI	-	0	22	7	8.8	14	26	57	48	1.1	2.6	7.6	52	57	58	59	60	76
FMP1635	RCYC12THNI	-	0	30	7	6.4	9.5	15	65	46	1.1	1.9	4.8	60	57	58	59	60	67
FMP1636	RCYC14THNI	-	0	28	7	6.7	10	16	63	47	0.4	1.5	5.4	58	57	58	59	60	67
FMP1637	RCYC16THNI	-	0	26	7	7.1	11	18	61	47	0.6	1.8	5.9	56	57	58	59	60	67
FMP1638	RCYC18THNI	-	0	24	7	7.6	12	20	59	47	0.7	2.0	6.1	54	57	58	59	60	67
FMP1639	OKYC4THNI	35	12	40	14	4.7	6.5	11	110	22	0.3	1.9	4.4	50	-	-	-	-	73

ID	Name	IT	IT	MT	MT	MT	MT	MT	LR	LR	LR	LR	FC	FC	FC	FC	FC	
		Ag	%	Ag	c.	%m	% \bar{m}	%M	Ag	c.	%m	% \bar{m}	%M	Rot1	Rot2	Rot3	Rot4	Rot5 %
FMP1640	OKYC6THNI	25	9	30	14	5.5	8.2	16	100	39	0.4	2.1	5.3	80	-	-	-	73
FMP1641	OKYC8THNI	20	6	25	14	6.2	10	20	95	40	2.4	3.6	6.1	70	-	-	-	73
FMP1642	AHYC4THNI	20	12	25	5	8.0	11	18	50	11	0.5	2.3	6.0	50	-	-	-	68
FMP1643	AHYC6THNI	-	0	20	5	9.4	15	25	45	19	0.3	2.0	7.6	45	-	-	-	68
FMP1644	AHYC8THNI	15	28	20	5	10	15	24	45	28	0.2	1.6	7.3	45	-	-	-	68
FMP1645	AHYC10THNI	15	33	20	5	10	15	23	45	37	0.2	1.4	6.8	40	-	-	-	68
FMP1646	AHYC12THNI	10	24	15	5	12	20	34	40	48	0.2	1.5	10	40	-	-	-	68
FMP1647	BEYC4THNI	35	13	40	14	4.4	7.4	15	110	37	2.7	3.1	4.0	105	-	-	-	71
FMP1648	BEYC6THNI	30	11	35	12	5.1	8.4	15	95	40	2.7	3.1	4.7	95	-	-	-	71
FMP1649	BEYC8THNI	25	6.6	30	11	5.7	9.5	17	85	42	2.8	3.3	5.4	85	-	-	-	71
FMP1650	BEYC10THNI	25	17	30	10	6.2	10	17	80	43	3.1	3.7	5.8	80	-	-	-	71
FMP1651	BIYC4THNI	20	12	25	5	8.0	11	18	50	11	0.5	2.3	6.0	50	-	-	-	68
FMP1652	BIYC6THNI	-	0	20	5	9.4	15	25	45	19	0.3	2.0	7.6	45	-	-	-	68
FMP1653	BIYC8THNI	15	28	20	5	10	15	24	45	28	0.2	1.6	7.3	45	-	-	-	68
FMP1654	BIYC10THNI	15	33	20	5	10	15	23	45	37	0.2	1.4	6.8	40	-	-	-	68
FMP1655	SYYC4THNI	20	12	25	5	8.0	11	18	50	11	0.5	2.3	6.0	50	-	-	-	68
FMP1656	SYYC6THNI	-	0	20	5	9.4	15	25	45	19	0.3	2.0	7.6	45	-	-	-	68
FMP1657	SYYC8THNI	15	28	20	5	10	15	24	45	28	0.2	1.6	7.3	45	-	-	-	68
FMP1658	SYYC10THNI	15	33	20	5	10	15	23	45	37	0.2	1.4	6.8	40	-	-	-	68
FMP1659	SYYC14THNI	-	0	21	7	8.4	14	23	56	28	0.1	1.8	7.3	40	-	-	-	67
FMP1660	POYC4THNI	20	12	25	5	7.8	11	17	50	11	0.5	2.2	5.9	94	-	-	-	67
FMP1661	POYC6THNI	-	0	20	5	9.2	15	25	45	19	0.3	1.9	7.4	74	-	-	-	67
FMP1662	POYC8THNI	15	27	20	5	9.7	15	23	45	28	0.2	1.6	7.1	68	-	-	-	67

ID	Name	IT	IT	MT	MT	MT	MT	LR	LR	LR	LR	FC	FC	FC	FC	FC			
		Ag	%	Ag	c.	%m	% \bar{m}	%M	Ag	c.	%m	% \bar{m}	%M	Rot1	Rot2	Rot3	Rot4	Rot5 %	
FMP1663	POYC10THNI	15	33	20	5	10	15	23	45	37	0.2	1.4	6.7	60	-	-	-	-	67
FMP1664	POYC14THNI	-	0	21	7	8.4	14	23	56	28	0.1	1.8	7.3	55	-	-	-	-	67
FMP1665	NOYC10THES	-	0	18	4	11	16	23	38	29	0.1	2.1	9.9	43	-	-	-	-	70

Annex 6 Detailed assignment of FMPs to the forest strata

England, Public forest estate

CARBINE tree species code	Yield class	Total area of stratum (ha)	Allocated FMPs by index number				Percentage allocation of FMPs to stratum area			
			No harvesting	No thinning, with clearcutting	Thinning, with clearcutting	Continuous cover	No harvesting	No thinning, with clearcutting	Thinning, with clearcutting	Continuous cover
NS	2	81.60	-	FMP2	FMP289	FMP588	0%	7.66%	31.02%	61.32%
NS	4	72.15	-	FMP5	FMP292	FMP589	0%	37.18%	16.12%	46.70%
NS	6	295.73	-	FMP8	FMP295	FMP590	0%	49.28%	15.49%	35.23%
NS	8	736.23	-	FMP11	FMP298	FMP591	0%	37.26%	13.81%	48.92%
NS	10	2 344.59	-	FMP14	FMP301	FMP592	0%	29.08%	21.09%	49.82%
NS	12	1 450.02	-	FMP17	FMP304	FMP593	0%	12.73%	25.37%	61.90%
NS	14	908.60	-	FMP20	FMP307	FMP594	0%	4.82%	39.46%	55.72%
NS	16	635.29	-	FMP23	FMP310	FMP595	0%	2.68%	42.07%	55.25%
NS	18	489.45	-	FMP26	FMP313	FMP596	0%	3.66%	55.53%	40.81%
NS	20	339.21	-	FMP29	FMP316	FMP597	0%	1.88%	71.88%	26.24%
NS	22	283.87	-	FMP32	FMP319	FMP598	0%	0.63%	77.33%	22.04%
NS	24	3.94	-	FMP35	FMP322	FMP599	0%	0.91%	24.24%	74.86%
NS	30	1.72	-	-	FMP324	FMP601	0%	0.00%	99.00%	1.00%
SS	2	93.95	-	FMP38	FMP325	FMP602	0%	48.28%	33.19%	18.52%
SS	4	158.15	-	FMP41	FMP328	FMP603	0%	52.60%	37.61%	9.80%
SS	6	682.12	-	FMP44	FMP331	FMP604	0%	77.55%	16.82%	5.63%
SS	8	1 860.48	-	FMP47	FMP334	FMP605	0%	79.87%	16.75%	3.38%

CARBINE tree species code	Yield class	Total area of stratum (ha)	Allocated FMPs by index number				Percentage allocation of FMPs to stratum area			
			No harvesting	No thinning, with clearcutting	Thinning, with clearcutting	Continuous cover	No harvesting	No thinning, with clearcutting	Thinning, with clearcutting	Continuous cover
SS	10	3 510.40	-	FMP50	FMP337	FMP606	0%	74.32%	18.87%	6.81%
SS	12	17 317.80	-	FMP53	FMP340	FMP607	0%	62.74%	24.32%	12.95%
SS	14	10 103.33	-	FMP56	FMP343	FMP608	0%	54.45%	34.25%	11.30%
SS	16	5 266.31	-	FMP59	FMP346	FMP609	0%	48.38%	41.50%	10.12%
SS	18	3 251.83	-	FMP62	FMP349	FMP610	0%	42.65%	41.47%	15.88%
SS	20	1 812.50	-	FMP65	FMP352	FMP611	0%	37.51%	48.96%	13.53%
SS	22	1 021.39	-	FMP68	FMP355	FMP612	0%	37.65%	47.79%	14.56%
SS	24	924.50	-	FMP71	FMP358	FMP613	0%	19.25%	65.05%	15.70%
SS	26	22.94	-	FMP74	FMP361	FMP614	0%	6.61%	85.80%	7.59%
SS	28	0.29	-	-	FMP364	FMP615	0%	0.00%	1.00%	99.00%
SP	2	184.58	-	FMP78	FMP367	FMP616	0%	4.15%	25.82%	70.04%
SP	4	278.65	-	FMP81	FMP370	FMP617	0%	14.47%	42.93%	42.61%
SP	6	935.57	-	FMP84	FMP373	FMP618	0%	19.38%	49.13%	31.49%
SP	8	2 863.76	-	FMP87	FMP376	FMP619	0%	10.22%	53.02%	36.76%
SP	10	5 173.38	-	FMP90	FMP379	FMP620	0%	4.79%	45.90%	49.31%
SP	12	4 438.68	-	FMP93	FMP382	FMP621	0%	2.56%	47.40%	50.04%
SP	14	2 146.19	-	FMP96	FMP385	FMP622	0%	1.86%	54.43%	43.72%
SP	16	55.17	-	FMP99	FMP388	FMP623	0%	5.07%	68.90%	26.03%
SP	18	6.70	-	-	FMP391	FMP624	0%	0.00%	55.64%	44.36%
CP	2	19.18	-	FMP101	FMP394	FMP626	0%	0.26%	81.71%	18.03%
CP	4	22.67	-	-	FMP396	FMP627	0%	0.00%	81.17%	18.83%

CARBINE tree species code	Yield class	Total area of stratum (ha)	Allocated FMPs by index number				Percentage allocation of FMPs to stratum area			
			No harvesting	No thinning, with clearcutting	Thinning, with clearcutting	Continuous cover	No harvesting	No thinning, with clearcutting	Thinning, with clearcutting	Continuous cover
CP	6	65.29	-	FMP106	FMP399	FMP628	0%	15.81%	53.59%	30.60%
CP	8	227.95	-	FMP109	FMP402	FMP629	0%	3.48%	57.96%	38.56%
CP	10	828.38	-	FMP112	FMP405	FMP630	0%	1.41%	69.13%	29.46%
CP	12	3 518.94	-	FMP115	FMP408	FMP631	0%	0.79%	67.71%	31.50%
CP	14	10 748.40	-	FMP118	FMP411	FMP632	0%	0.25%	78.80%	20.95%
CP	16	5 272.55	-	FMP121	FMP414	FMP633	0%	0.27%	78.87%	20.86%
CP	18	1 225.24	-	FMP123	FMP416	FMP634	0%	0.34%	72.44%	27.22%
CP	20	796.94	-	-	FMP418	FMP635	0%	0.00%	77.55%	22.45%
CP	22	0.40	-	-	FMP420	FMP636	0%	0.00%	97.03%	2.97%
CP	24	0.20	-	-	-	FMP637	0%	0.00%	0.00%	100.00%
LP	2	58.50	-	FMP127	FMP422	-	0%	60.93%	39.07%	0.00%
LP	4	711.02	-	FMP130	FMP425	FMP639	0%	75.04%	19.21%	5.75%
LP	6	1 048.14	-	FMP133	FMP428	FMP640	0%	63.56%	32.51%	3.93%
LP	8	1 079.46	-	FMP136	FMP431	FMP641	0%	47.76%	44.49%	7.75%
LP	10	371.33	-	FMP139	FMP434	FMP642	0%	32.89%	52.45%	14.66%
LP	12	170.57	-	FMP142	FMP437	FMP643	0%	19.42%	59.35%	21.23%
LP	14	62.03	-	FMP145	FMP440	FMP644	0%	21.04%	57.62%	21.34%
LP	16	5.51	-	-	FMP443	FMP645	0%	0.00%	73.27%	26.73%
LP	18	1.96	-	-	FMP446	FMP646	0%	0.00%	96.56%	3.44%
LP	20	71.77	-	-	FMP447	FMP647	0%	0.00%	63.95%	36.05%
EL	2	9.88	-	-	FMP449	FMP648	0%	0.00%	0.03%	99.97%

CARBINE tree species code	Yield class	Total area of stratum (ha)	Allocated FMPs by index number				Percentage allocation of FMPs to stratum area			
			No harvesting	No thinning, with clearcutting	Thinning, with clearcutting	Continuous cover	No harvesting	No thinning, with clearcutting	Thinning, with clearcutting	Continuous cover
EL	4	32.67	-	FMP151	FMP452	FMP649	0%	16.63%	45.72%	37.65%
EL	6	192.69	-	FMP154	FMP455	FMP650	0%	1.91%	38.94%	59.15%
EL	8	365.97	-	FMP157	FMP458	FMP651	0%	3.45%	40.78%	55.77%
EL	10	299.24	-	FMP160	FMP461	FMP652	0%	1.94%	35.36%	62.70%
EL	12	327.87	-	FMP163	FMP464	FMP653	0%	4.17%	51.98%	43.86%
EL	14	5.23	-	FMP166	FMP467	FMP654	0%	1.43%	65.80%	32.77%
EL	16	0.35	-	-	FMP470	FMP655	0%	0.00%	22.62%	77.38%
EL	18	0.53	-	-	FMP472	FMP656	0%	0.00%	99.00%	1.00%
JL	2	17.14	-	FMP169	FMP473	FMP657	0%	9.00%	84.09%	6.91%
JL	4	112.85	-	FMP172	FMP476	FMP658	0%	47.40%	29.65%	22.96%
JL	6	495.23	-	FMP175	FMP479	FMP659	0%	19.60%	60.40%	20.00%
JL	8	1 323.39	-	FMP178	FMP482	FMP660	0%	9.92%	51.26%	38.81%
JL	10	1 959.16	-	FMP181	FMP485	FMP661	0%	8.59%	47.16%	44.25%
JL	12	1 794.45	-	FMP184	FMP488	FMP662	0%	9.17%	49.49%	41.34%
JL	14	1 671.57	-	FMP187	FMP491	FMP663	0%	6.24%	62.52%	31.24%
JL	16	51.54	-	FMP190	FMP494	FMP664	0%	10.16%	69.80%	20.04%
JL	18	0.99	-	-	FMP497	FMP665	0%	0.00%	41.46%	58.54%
JL	20	1.80	-	-	FMP498	FMP666	0%	0.00%	97.34%	2.66%
DF	2	6.12	-	FMP194	FMP500	FMP668	0%	8.73%	14.90%	76.37%
DF	4	4.72	-	-	FMP503	FMP669	0%	0.00%	4.87%	95.13%
DF	6	11.83	-	-	-	FMP670	0%	0.00%	0.00%	100.00%
DF	8	174.37	-	FMP198	FMP508	FMP671	0%	7.17%	18.89%	73.94%

CARBINE tree species code	Yield class	Total area of stratum (ha)	Allocated FMPs by index number				Percentage allocation of FMPs to stratum area			
			No harvesting	No thinning, with clearcutting	Thinning, with clearcutting	Continuous cover	No harvesting	No thinning, with clearcutting	Thinning, with clearcutting	Continuous cover
DF	10	378.84	-	FMP201	FMP511	FMP672	0%	1.13%	31.34%	67.53%
DF	12	1 247.27	-	FMP204	FMP514	FMP673	0%	0.73%	34.42%	64.86%
DF	14	1 539.01	-	FMP207	FMP517	FMP674	0%	1.46%	34.35%	64.20%
DF	16	1 757.92	-	FMP210	FMP520	FMP675	0%	1.14%	43.96%	54.90%
DF	18	1 388.30	-	FMP213	FMP523	FMP676	0%	1.54%	56.36%	42.10%
DF	20	1 106.08	-	FMP216	FMP526	FMP677	0%	0.94%	54.08%	44.98%
DF	22	796.48	-	FMP219	FMP529	FMP678	0%	1.61%	68.77%	29.62%
DF	24	990.78	-	FMP222	FMP532	FMP679	0%	1.21%	72.64%	26.16%
DF	26	3.99	-	-	FMP535	FMP680	0%	0.00%	38.23%	61.77%
GF	2	5.44	-	-	FMP536	FMP681	0%	0.00%	2.80%	97.20%
GF	4	0.60	-	-	-	FMP682	0%	0.00%	0.00%	100.00%
GF	6	4.02	-	-	FMP538	-	0%	0.00%	100.00%	0.00%
GF	8	5.09	-	-	FMP539	FMP684	0%	0.00%	0.75%	99.25%
GF	10	24.33	-	-	FMP540	FMP685	0%	0.00%	45.91%	54.09%
GF	12	66.08	-	FMP230	FMP541	FMP686	0%	8.36%	30.23%	61.41%
GF	14	71.14	-	FMP232	FMP542	FMP687	0%	4.21%	36.59%	59.20%
GF	16	75.35	-	FMP234	FMP543	FMP688	0%	0.53%	31.53%	67.94%
GF	18	48.34	-	FMP236	FMP544	FMP689	0%	2.11%	41.82%	56.08%
GF	20	40.55	-	FMP238	FMP545	FMP690	0%	5.76%	29.89%	64.36%
GF	22	24.48	-	FMP240	FMP546	FMP691	0%	1.30%	57.51%	41.19%
GF	24	18.63	-	FMP242	FMP547	FMP692	0%	13.53%	47.03%	39.44%
GF	26	22.40	-	FMP244	FMP548	FMP693	0%	3.27%	49.75%	46.98%

CARBINE tree species code	Yield class	Total area of stratum (ha)	Allocated FMPs by index number				Percentage allocation of FMPs to stratum area			
			No harvesting	No thinning, with clearcutting	Thinning, with clearcutting	Continuous cover	No harvesting	No thinning, with clearcutting	Thinning, with clearcutting	Continuous cover
GF	28	11.14	-	FMP246	FMP549	FMP694	0%	4.02%	67.51%	28.47%
GF	30	21.73	-	-	FMP550	FMP695	0%	0.00%	58.50%	41.50%
NF	2	1.97	-	-	-	FMP696	0%	0.00%	0.00%	100.00%
NF	4	0.28	-	-	-	FMP697	0%	0.00%	0.00%	100.00%
NF	6	0.78	-	-	-	FMP698	0%	0.00%	0.00%	100.00%
NF	8	4.28	-	-	FMP554	FMP699	0%	0.00%	99.92%	0.08%
NF	10	7.10	-	FMP253	FMP555	FMP700	0%	1.07%	31.51%	67.42%
NF	12	20.98	-	FMP254	FMP556	FMP701	0%	15.75%	23.68%	60.57%
NF	14	22.61	-	FMP255	FMP557	FMP702	0%	5.92%	43.63%	50.45%
NF	16	18.18	-	FMP256	FMP558	FMP703	0%	1.49%	73.98%	24.53%
NF	18	8.90	-	-	FMP559	FMP704	0%	0.00%	27.77%	72.23%
NF	20	7.74	-	-	FMP560	FMP705	0%	0.00%	40.45%	59.55%
NF	22	13.30	-	FMP259	FMP561	FMP706	0%	5.18%	65.31%	29.51%
WH	2	6.58	-	-	FMP563	FMP708	0%	0.00%	25.55%	74.45%
WH	4	0.52	-	-	FMP564	FMP709	0%	0.00%	48.73%	51.27%
WH	6	2.34	-	-	FMP565	FMP710	0%	0.00%	34.60%	65.40%
WH	8	10.76	-	FMP266	FMP566	FMP711	0%	6.91%	10.40%	82.69%
WH	10	27.23	-	FMP267	FMP567	FMP712	0%	13.98%	18.36%	67.66%
WH	12	158.86	-	FMP268	FMP568	FMP713	0%	7.31%	44.67%	48.02%
WH	14	247.93	-	FMP269	FMP569	FMP714	0%	2.59%	54.32%	43.10%
WH	16	268.89	-	FMP270	FMP570	FMP715	0%	3.34%	44.58%	52.09%
WH	18	270.80	-	FMP271	FMP571	FMP716	0%	3.16%	60.21%	36.63%

CARBINE tree species code	Yield class	Total area of stratum (ha)	Allocated FMPs by index number				Percentage allocation of FMPs to stratum area			
			No harvesting	No thinning, with clearcutting	Thinning, with clearcutting	Continuous cover	No harvesting	No thinning, with clearcutting	Thinning, with clearcutting	Continuous cover
WH	20	235.60	-	FMP272	FMP572	FMP717	0%	3.60%	55.94%	40.46%
WH	22	114.58	-	FMP273	FMP573	FMP718	0%	1.55%	56.95%	41.51%
WH	24	90.33	-	-	FMP574	FMP719	0%	0.00%	70.24%	29.76%
RC	2	4.75	-	-	FMP576	FMP721	0%	0.00%	1.82%	98.18%
RC	4	11.75	-	-	FMP577	FMP722	0%	0.00%	43.56%	56.44%
RC	6	8.87	-	-	FMP578	FMP723	0%	0.00%	9.04%	90.96%
RC	8	20.71	-	FMP279	FMP579	FMP724	0%	0.01%	24.91%	75.08%
RC	10	98.57	-	FMP280	FMP580	FMP725	0%	0.18%	21.89%	77.92%
RC	12	238.75	-	FMP281	FMP581	FMP726	0%	3.62%	27.64%	68.73%
RC	14	174.23	-	FMP282	FMP582	FMP727	0%	1.48%	26.73%	71.79%
RC	16	178.24	-	FMP283	FMP583	FMP728	0%	2.97%	29.55%	67.47%
RC	18	132.74	-	FMP284	FMP584	FMP729	0%	2.10%	28.74%	69.16%
RC	20	69.76	-	FMP285	FMP585	FMP730	0%	3.45%	56.66%	39.89%
RC	22	43.18	-	FMP286	FMP586	FMP731	0%	6.25%	67.75%	26.00%
RC	24	43.46	-	FMP287	FMP587	FMP732	0%	0.14%	91.29%	8.57%
OK	2	1 612.82	FMP1	-	-	FMP733	34.00%	0%	0%	66.00%
OK	4	6 793.48	FMP1	-	-	FMP734	34.34%	0%	0%	65.66%
OK	6	4 515.11	FMP1	-	-	FMP735	33.78%	0%	0%	66.22%
OK	8	655.20	FMP1	-	-	FMP736	33.86%	0%	0%	66.14%
OK	10	51.59	FMP1	-	-	FMP737	33.47%	0%	0%	66.53%
OK	12	2.66	FMP1	-	-	FMP738	33.47%	0%	0%	66.53%
OK	14	0.61	FMP1	-	-	FMP739	54.18%	0%	0%	45.82%

CARBINE tree species code	Yield class	Total area of stratum (ha)	Allocated FMPs by index number				Percentage allocation of FMPs to stratum area			
			No harvesting	No thinning, with clearcutting	Thinning, with clearcutting	Continuous cover	No harvesting	No thinning, with clearcutting	Thinning, with clearcutting	Continuous cover
OK	16	1.65	FMP1	-	-	FMP740	33.47%	0%	0%	66.53%
AH	2	149.58	FMP1	-	-	FMP742	35.57%	0%	0%	64.43%
AH	4	1 118.61	FMP1	-	-	FMP743	35.48%	0%	0%	64.52%
AH	6	857.27	FMP1	-	-	FMP744	34.83%	0%	0%	65.17%
AH	8	536.73	FMP1	-	-	FMP745	37.22%	0%	0%	62.78%
AH	10	286.30	FMP1	-	-	FMP746	39.13%	0%	0%	60.87%
AH	12	178.90	FMP1	-	-	FMP747	39.07%	0%	0%	60.93%
AH	14	2.56	FMP1	-	-	FMP748	43.08%	0%	0%	56.92%
AH	16	0.79	FMP1	-	-	FMP749	34.67%	0%	0%	65.33%
BE	2	901.32	FMP1	-	-	FMP752	34.39%	0%	0%	65.61%
BE	4	1 915.65	FMP1	-	-	FMP753	34.20%	0%	0%	65.80%
BE	6	4 251.31	FMP1	-	-	FMP754	33.85%	0%	0%	66.15%
BE	8	3 410.91	FMP1	-	-	FMP755	33.77%	0%	0%	66.23%
BE	10	1 033.71	FMP1	-	-	FMP756	33.51%	0%	0%	66.49%
BE	12	10.80	FMP1	-	-	FMP757	33.47%	0%	0%	66.53%
BE	14	1.27	FMP1	-	-	FMP758	61.51%	0%	0%	38.49%
BI	2	1 261.56	FMP1	-	-	FMP761	35.57%	0%	0%	64.43%
BI	4	4 224.43	FMP1	-	-	FMP762	35.48%	0%	0%	64.52%
BI	6	1 278.45	FMP1	-	-	FMP763	34.83%	0%	0%	65.17%
BI	8	472.55	FMP1	-	-	FMP764	37.22%	0%	0%	62.78%
BI	10	200.08	FMP1	-	-	FMP765	39.13%	0%	0%	60.87%
BI	12	250.99	FMP1	-	-	FMP766	39.07%	0%	0%	60.93%

CARBINE tree species code	Yield class	Total area of stratum (ha)	Allocated FMPs by index number				Percentage allocation of FMPs to stratum area			
			No harvesting	No thinning, with clearcutting	Thinning, with clearcutting	Continuous cover	No harvesting	No thinning, with clearcutting	Thinning, with clearcutting	Continuous cover
BI	14	15.47	FMP1	-	-	FMP767	43.08%	0%	0%	56.92%
BI	16	1.50	FMP1	-	-	FMP768	34.67%	0%	0%	65.33%
BI	18	0.46	FMP1	-	-	FMP769	71.91%	0%	0%	28.09%
SY	2	2 928.91	FMP1	-	-	FMP772	35.57%	0%	0%	64.43%
SY	4	5 609.99	FMP1	-	-	FMP773	35.48%	0%	0%	64.52%
SY	6	1 559.27	FMP1	-	-	FMP774	34.83%	0%	0%	65.17%
SY	8	541.10	FMP1	-	-	FMP775	37.22%	0%	0%	62.78%
SY	10	232.85	FMP1	-	-	FMP776	39.13%	0%	0%	60.87%
SY	12	1 285.96	FMP1	-	-	FMP777	39.07%	0%	0%	60.93%
SY	14	50.12	FMP1	-	-	FMP778	43.08%	0%	0%	56.92%
SY	16	3.49	FMP1	-	-	FMP779	34.67%	0%	0%	65.33%
SY	18	1.36	FMP1	-	-	FMP780	71.91%	0%	0%	28.09%
SY	20	2.78	FMP1	-	-	FMP781	47.88%	0%	0%	52.12%
SY	22	0.51	FMP1	-	-	FMP782	33.47%	0%	0%	66.53%
PO	2	38.27	FMP1	-	-	FMP784	35.57%	0%	0%	64.43%
PO	4	141.19	FMP1	-	-	FMP785	35.48%	0%	0%	64.52%
PO	6	128.36	FMP1	-	-	FMP786	34.83%	0%	0%	65.17%
PO	8	68.02	FMP1	-	-	FMP787	37.22%	0%	0%	62.78%
PO	10	55.33	FMP1	-	-	FMP788	39.13%	0%	0%	60.87%
PO	12	5.57	FMP1	-	-	FMP789	39.07%	0%	0%	60.93%
PO	14	44.47	FMP1	-	-	FMP790	43.08%	0%	0%	56.92%
PO	16	7.41	FMP1	-	-	FMP791	34.67%	0%	0%	65.33%

CARBINE tree species code	Yield class	Total area of stratum (ha)	Allocated FMPs by index number				Percentage allocation of FMPs to stratum area			
			No harvesting	No thinning, with clearcutting	Thinning, with clearcutting	Continuous cover	No harvesting	No thinning, with clearcutting	Thinning, with clearcutting	Continuous cover
PO	24	3.06	FMP1	-	-	FMP792	36.16%	0%	0%	63.84%
NO	2	1.33	FMP1	-	-	FMP793	35.57%	0%	0%	64.43%
NO	4	0.73	FMP1	-	-	FMP794	35.48%	0%	0%	64.52%
NO	6	7.01	FMP1	-	-	FMP795	34.83%	0%	0%	65.17%
NO	8	3.52	FMP1	-	-	FMP796	37.22%	0%	0%	62.78%
NO	10	18.84	FMP1	-	-	FMP797	39.13%	0%	0%	60.87%
NO	12	7.33	FMP1	-	-	FMP798	39.07%	0%	0%	60.93%
NO	14	5.15	FMP1	-	-	FMP799	43.08%	0%	0%	56.92%
NO	16	0.11	FMP1	-	-	FMP800	34.67%	0%	0%	65.33%
NO	18	0.28	FMP1	-	-	FMP801	71.91%	0%	0%	28.09%

England, Private sector

CARBINE tree species code	Yield class	Total area of stratum (ha)	Allocated FMPs by index number				Percentage allocation of FMPs to stratum area			
			No harvesting	No thinning, with clearcutting	Thinning, with clearcutting	Continuous cover	No harvesting	No thinning, with clearcutting	Thinning, with clearcutting	Continuous cover
NS	6	1 233.90	FMP1	FMP803	FMP1103	-	63.60%	14.99%	21.42%	0%
NS	8	1 688.07	FMP1	FMP806	FMP1106	-	62.66%	9.87%	27.46%	0%
NS	10	2 145.44	FMP1	FMP809	FMP1109	-	62.66%	3.64%	33.70%	0%

CARBINE tree species code	Yield class	Total area of stratum (ha)	Allocated FMPs by index number				Percentage allocation of FMPs to stratum area			
			No harvesting	No thinning, with clearcutting	Thinning, with clearcutting	Continuous cover	No harvesting	No thinning, with clearcutting	Thinning, with clearcutting	Continuous cover
NS	12	2 372.02	FMP1	FMP811	FMP1112	-	62.65%	3.28%	34.07%	0%
NS	14	1 959.21	FMP1	FMP813	FMP1115	-	62.66%	3.52%	33.81%	0%
NS	16	2 603.04	FMP1	FMP815	FMP1118	-	62.66%	3.28%	34.05%	0%
NS	18	1 608.74	FMP1	FMP817	FMP1121	-	62.66%	3.40%	33.94%	0%
NS	20	1 405.87	FMP1	FMP819	FMP1124	-	62.66%	2.87%	34.47%	0%
NS	22	1 977.40	FMP1	FMP821	FMP1126	-	62.66%	3.73%	33.60%	0%
SS	6	1 651.38	FMP1	FMP823	FMP1128	-	64.05%	25.37%	10.59%	0%
SS	8	1 664.99	FMP1	FMP826	FMP1130	-	64.56%	25.11%	10.33%	0%
SS	10	1 646.82	FMP1	FMP829	FMP1132	-	62.65%	27.17%	10.18%	0%
SS	12	4 135.66	FMP1	FMP831	FMP1134	-	62.65%	26.70%	10.65%	0%
SS	14	5 785.03	FMP1	FMP834	FMP1137	-	62.66%	19.58%	17.76%	0%
SS	16	3 853.92	FMP1	FMP837	FMP1140	-	62.96%	8.73%	28.31%	0%
SS	18	2 653.38	FMP1	FMP840	FMP1143	-	62.65%	9.05%	28.30%	0%
SS	20	3 950.10	FMP1	FMP843	FMP1146	-	62.92%	7.98%	29.10%	0%
SS	22	977.51	FMP1	FMP846	FMP1149	-	62.65%	9.74%	27.61%	0%
SS	24	1 402.87	FMP1	FMP849	FMP1152	-	62.65%	7.47%	29.88%	0%
SS	26	25.60	FMP1	FMP851	FMP1155	-	62.65%	7.47%	29.88%	0%
SS	28	0.45	FMP1	FMP853	FMP1158	-	62.65%	7.47%	29.88%	0%
SP	4	54 368.46	FMP1	FMP856	FMP1161	-	98.84%	0.78%	0.37%	0%
SP	6	5 112.35	FMP1	FMP859	FMP1164	-	63.09%	21.80%	15.11%	0%
SP	8	6 025.65	FMP1	FMP862	FMP1167	-	63.06%	12.01%	24.93%	0%

CARBINE tree species code	Yield class	Total area of stratum (ha)	Allocated FMPs by index number				Percentage allocation of FMPs to stratum area			
			No harvesting	No thinning, with clearcutting	Thinning, with clearcutting	Continuous cover	No harvesting	No thinning, with clearcutting	Thinning, with clearcutting	Continuous cover
SP	10	7 687.63	FMP1	FMP865	FMP1170	-	62.66%	12.99%	24.35%	0%
SP	12	6 523.11	FMP1	FMP868	FMP1173	-	62.88%	13.62%	23.51%	0%
SP	14	11 341.83	FMP1	FMP871	FMP1176	-	62.66%	31.99%	5.35%	0%
CP	6	650.76	FMP1	-	FMP1183	-	62.64%	0%	37.36%	0%
CP	8	1 124.41	FMP1	-	FMP1186	-	67.59%	0%	32.41%	0%
CP	10	2 579.41	FMP1	-	FMP1189	-	64.34%	0%	35.66%	0%
CP	12	1 929.06	FMP1	-	FMP1192	-	62.64%	0%	37.36%	0%
CP	14	2 174.47	FMP1	-	FMP1195	-	62.65%	0%	37.35%	0%
CP	16	1 624.22	FMP1	-	FMP1198	-	62.81%	0%	37.19%	0%
CP	18	760.70	FMP1	-	FMP1200	-	62.66%	0%	37.34%	0%
CP	20	601.20	FMP1	-	FMP1202	-	62.66%	0%	37.34%	0%
LP	4	463.40	FMP1	FMP882	FMP1205	-	72.75%	13.78%	13.47%	0%
LP	6	4 143.37	FMP1	FMP885	FMP1208	-	71.28%	14.65%	14.07%	0%
LP	8	2 275.33	FMP1	FMP888	FMP1211	-	66.80%	17.20%	16.00%	0%
LP	10	1 287.18	FMP1	FMP891	FMP1214	-	68.56%	16.73%	14.72%	0%
LP	12	1 414.98	FMP1	FMP894	FMP1217	-	65.10%	21.51%	13.40%	0%
LP	14	174.90	FMP1	FMP897	FMP1220	-	63.32%	25.47%	11.21%	0%
LP	16	17.78	FMP1	FMP899	FMP1222	-	63.37%	18.32%	18.32%	0%
LP	18	7.18	FMP1	FMP901	FMP1224	-	63.51%	18.24%	18.24%	0%
LP	20	95.28	FMP1	FMP902	FMP1225	-	72.06%	13.97%	13.97%	0%
EL	2	96.77	FMP1	FMP904	FMP1227	-	62.64%	14.94%	22.41%	0%

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			No harvesting	No thinning, with clearcutting	Thinning, with clearcutting	Continuous cover	No harvesting	No thinning, with clearcutting	Thinning, with clearcutting	Continuous cover
EL	4	382.68	FMP1	FMP906	FMP1229	-	62.64%	14.94%	22.41%	0%
EL	6	980.42	FMP1	FMP909	FMP1232	-	62.64%	14.94%	22.41%	0%
EL	8	1 093.13	FMP1	FMP912	FMP1235	-	62.65%	14.94%	22.41%	0%
EL	10	683.77	FMP1	FMP915	FMP1238	-	62.64%	14.94%	22.41%	0%
EL	12	839.48	FMP1	FMP918	FMP1241	-	62.65%	14.94%	22.41%	0%
EL	14	18.20	FMP1	FMP921	FMP1244	-	62.66%	14.94%	22.40%	0%
JL	2	133.38	FMP1	FMP924	FMP1247	-	62.65%	7.47%	29.88%	0%
JL	4	1 313.92	FMP1	FMP926	FMP1249	-	62.68%	7.40%	29.92%	0%
JL	6	2 530.20	FMP1	FMP929	FMP1252	-	62.76%	7.22%	30.02%	0%
JL	8	3 621.11	FMP1	FMP932	FMP1255	-	62.67%	6.10%	31.24%	0%
JL	10	4 313.26	FMP1	FMP935	FMP1258	-	62.66%	1.60%	35.74%	0%
JL	12	4 341.19	FMP1	FMP938	FMP1261	-	62.66%	1.09%	36.25%	0%
JL	14	5 534.83	FMP1	FMP941	FMP1264	-	62.66%	0.55%	36.79%	0%
DF	8	3 023.21	FMP1	FMP947	FMP1270	-	63.28%	3.67%	33.05%	0%
DF	10	2 656.45	FMP1	FMP950	FMP1273	-	62.68%	3.73%	33.59%	0%
DF	12	1 976.29	FMP1	FMP953	FMP1276	-	62.67%	3.73%	33.60%	0%
DF	14	1 946.20	FMP1	FMP956	FMP1279	-	62.67%	3.73%	33.60%	0%
DF	16	1 395.49	FMP1	FMP959	FMP1282	-	62.68%	3.73%	33.59%	0%
DF	18	919.10	FMP1	FMP962	FMP1285	-	62.67%	3.73%	33.60%	0%
DF	20	774.43	FMP1	FMP964	FMP1288	-	62.66%	3.73%	33.60%	0%
DF	22	312.70	FMP1	FMP966	FMP1291	-	62.67%	3.73%	33.60%	0%

CARBINE tree species code	Yield class	Total area of stratum (ha)	Allocated FMPs by index number				Percentage allocation of FMPs to stratum area			
			No harvesting	No thinning, with clearcutting	Thinning, with clearcutting	Continuous cover	No harvesting	No thinning, with clearcutting	Thinning, with clearcutting	Continuous cover
DF	24	501.21	FMP1	FMP968	FMP1294	-	62.66%	3.73%	33.60%	0%
DF	26	2.02	FMP1	FMP970	FMP1297	-	62.68%	3.73%	33.59%	0%
GF	8	103.10	FMP1	FMP974	FMP1301	-	63.67%	14.53%	21.80%	0%
GF	10	138.72	FMP1	FMP976	FMP1303	-	62.67%	14.93%	22.40%	0%
GF	12	111.87	FMP1	FMP979	FMP1306	-	66.93%	13.23%	19.84%	0%
GF	14	90.52	FMP1	FMP982	FMP1309	-	62.68%	14.93%	22.39%	0%
GF	16	59.81	FMP1	FMP984	FMP1312	-	62.68%	14.93%	22.39%	0%
GF	18	30.01	FMP1	FMP987	FMP1315	-	62.68%	14.93%	22.39%	0%
GF	20	28.62	FMP1	FMP990	FMP1318	-	62.67%	14.93%	22.40%	0%
GF	22	9.51	FMP1	FMP993	FMP1321	-	62.68%	14.93%	22.39%	0%
GF	24	9.45	FMP1	FMP996	FMP1324	-	62.66%	14.93%	22.40%	0%
GF	26	11.37	FMP1	FMP999	FMP1327	-	62.68%	14.93%	22.39%	0%
GF	28	5.65	FMP1	FMP1002	FMP1330	-	62.67%	14.93%	22.40%	0%
GF	30	11.03	FMP1	FMP1005	FMP1333	-	62.67%	14.93%	22.40%	0%
NF	8	57.55	FMP1	FMP1011	FMP1339	-	64.07%	14.37%	21.56%	0%
NF	10	32.94	FMP1	FMP1014	FMP1342	-	63.22%	14.71%	22.07%	0%
NF	12	26.99	FMP1	FMP1017	FMP1345	-	62.67%	14.93%	22.40%	0%
NF	14	25.23	FMP1	FMP1020	FMP1348	-	62.67%	14.93%	22.40%	0%
NF	16	12.00	FMP1	FMP1022	FMP1351	-	62.81%	14.88%	22.32%	0%
NF	18	4.56	FMP1	FMP1025	FMP1354	-	62.67%	14.93%	22.40%	0%
NF	20	4.84	FMP1	FMP1028	FMP1357	-	68.30%	12.68%	19.02%	0%

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			No harvesting	No thinning, with clearcutting	Thinning, with clearcutting	Continuous cover	No harvesting	No thinning, with clearcutting	Thinning, with clearcutting	Continuous cover
NF	22	5.13	FMP1	FMP1031	FMP1360	-	62.67%	14.93%	22.40%	0%
WH	4	0.34	FMP1	FMP1038	FMP1367	-	72.92%	10.83%	16.25%	0%
WH	6	9.28	FMP1	FMP1040	FMP1369	-	70.91%	11.64%	17.46%	0%
WH	8	17.90	FMP1	FMP1043	FMP1372	-	63.74%	14.50%	21.76%	0%
WH	10	79.07	FMP1	FMP1046	FMP1375	-	67.69%	12.92%	19.38%	0%
WH	12	1 307.42	FMP1	FMP1049	FMP1378	-	63.87%	14.45%	21.68%	0%
WH	14	705.19	FMP1	FMP1052	FMP1381	-	63.19%	14.72%	22.09%	0%
WH	16	1 033.32	FMP1	FMP1054	FMP1384	-	63.61%	14.56%	21.83%	0%
WH	18	961.77	FMP1	FMP1047	FMP1387	-	63.00%	14.80%	22.20%	0%
WH	20	305.69	FMP1	FMP1060	FMP1390	-	69.84%	12.06%	18.09%	0%
WH	22	223.62	FMP1	FMP1063	FMP1393	-	63.21%	14.72%	22.07%	0%
WH	24	139.57	FMP1	FMP1066	FMP1396	-	63.21%	14.72%	22.07%	0%
RC	4	6.21	FMP1	FMP1071	FMP1401	-	67.09%	13.16%	19.75%	0%
RC	6	32.91	FMP1	FMP1073	FMP1403	-	69.54%	12.18%	18.27%	0%
RC	8	38.25	FMP1	FMP1076	FMP1406	-	66.02%	13.59%	20.39%	0%
RC	10	299.27	FMP1	FMP1079	FMP1409	-	67.49%	13.01%	19.51%	0%
RC	12	1 849.57	FMP1	FMP1082	FMP1412	-	63.78%	14.49%	21.73%	0%
RC	14	442.52	FMP1	FMP1085	FMP1415	-	63.04%	14.79%	22.18%	0%
RC	16	622.38	FMP1	FMP1087	FMP1418	-	63.32%	14.67%	22.01%	0%
RC	18	423.00	FMP1	FMP1090	FMP1421	-	62.81%	14.88%	22.32%	0%
RC	20	85.99	FMP1	FMP1093	FMP1424	-	62.71%	14.92%	22.38%	0%

CARBINE tree species code	Yield class	Total area of stratum (ha)	Allocated FMPs by index number				Percentage allocation of FMPs to stratum area			
			No harvesting	No thinning, with clearcutting	Thinning, with clearcutting	Continuous cover	No harvesting	No thinning, with clearcutting	Thinning, with clearcutting	Continuous cover
RC	22	81.94	FMP1	FMP1096	FMP1427	-	62.81%	14.88%	22.31%	0%
RC	24	65.30	FMP1	FMP1099	FMP1430	-	62.93%	14.83%	22.24%	0%
OK	2	25 210.93	FMP1	-	FMP1433	-	84.62%	0%	15.38%	0%
OK	4	52 023.89	FMP1	-	FMP1434	-	84.62%	0%	15.38%	0%
OK	6	40 256.51	FMP1	-	FMP1435	-	84.62%	0%	15.38%	0%
OK	8	25 488.91	FMP1	-	FMP1436	-	84.62%	0%	15.38%	0%
AH	2	13 393.90	FMP1	-	FMP1437	-	84.62%	0%	15.38%	0%
AH	4	19 405.44	FMP1	-	FMP1438	-	84.62%	0%	15.38%	0%
AH	6	18 919.05	FMP1	-	FMP1439	-	84.62%	0%	15.38%	0%
AH	8	17 142.23	FMP1	-	FMP1440	-	84.62%	0%	15.38%	0%
AH	10	12 183.33	FMP1	-	FMP1441	-	84.62%	0%	15.38%	0%
AH	12	23 490.30	FMP1	-	FMP1442	-	84.62%	0%	15.38%	0%
BE	4	23 089.50	FMP1	-	FMP1444	-	84.62%	0%	15.38%	0%
BE	6	30 028.96	FMP1	-	FMP1445	-	84.62%	0%	15.38%	0%
BE	8	21 914.40	FMP1	-	FMP1446	-	84.62%	0%	15.38%	0%
BE	10	15 537.50	FMP1	-	FMP1447	-	84.62%	0%	15.38%	0%
BI	2	26 092.43	FMP1	-	FMP1449	-	84.62%	0%	15.38%	0%
BI	4	26 292.67	FMP1	-	FMP1450	-	84.62%	0%	15.38%	0%
BI	6	22 109.71	FMP1	-	FMP1451	-	84.62%	0%	15.38%	0%
BI	8	12 520.38	FMP1	-	FMP1452	-	84.62%	0%	15.38%	0%
BI	10	6 959.63	FMP1	-	FMP1453	-	84.62%	0%	15.38%	0%

CARBINE tree species code	Yield class	Total area of stratum (ha)	Allocated FMPs by index number				Percentage allocation of FMPs to stratum area			
			No harvesting	No thinning, with clearcutting	Thinning, with clearcutting	Continuous cover	No harvesting	No thinning, with clearcutting	Thinning, with clearcutting	Continuous cover
BI	12	9 309.89	FMP1	-	FMP1454	-	84.62%	0%	15.38%	0%
SY	2	377 853.69	FMP1	-	FMP1455	-	99.56%	0%	0.44%	0%
SY	4	14 728.92	FMP1	-	FMP1456	-	84.62%	0%	15.38%	0%
SY	6	14 046.96	FMP1	-	FMP1457	-	84.62%	0%	15.38%	0%
SY	8	9 666.03	FMP1	-	FMP1458	-	84.62%	0%	15.38%	0%
SY	10	6 512.02	FMP1	-	FMP1459	-	84.62%	0%	15.38%	0%
SY	12	9 695.20	FMP1	-	FMP1460	-	84.62%	0%	15.38%	0%
PO	2	119 738.23	FMP1	-	FMP1461	-	84.62%	0%	15.38%	0%
PO	4	54 731.37	FMP1	-	FMP1462	-	84.62%	0%	15.38%	0%
PO	6	24 488.81	FMP1	-	FMP1463	-	84.62%	0%	15.38%	0%
PO	8	24 728.01	FMP1	-	FMP1464	-	84.62%	0%	15.38%	0%
PO	10	3 121.59	FMP1	-	FMP1465	-	84.62%	0%	15.38%	0%
PO	12	1 059.16	FMP1	-	FMP1466	-	84.62%	0%	15.38%	0%
PO	14	1 067.42	FMP1	-	FMP1467	-	84.62%	0%	15.38%	0%
NO	2	5 933.98	FMP1	-	FMP1468	-	84.62%	0%	15.38%	0%
NO	4	405.36	FMP1	-	FMP1469	-	84.62%	0%	15.38%	0%
NO	6	1 916.12	FMP1	-	FMP1470	-	84.62%	0%	15.38%	0%
NO	8	1 837.53	FMP1	-	FMP1471	-	84.62%	0%	15.38%	0%
NO	10	1 512.33	FMP1	-	FMP1472	-	84.62%	0%	15.38%	0%
NO	12	1 976.79	FMP1	-	FMP1473	-	84.62%	0%	15.38%	0%

CARBINE tree species code	Yield class	Total area of stratum (ha)	Allocated FMPs by index number				Percentage allocation of FMPs to stratum area			
			No harvesting	No thinning, with clearcutting	Thinning, with clearcutting	Continuous cover	No harvesting	No thinning, with clearcutting	Thinning, with clearcutting	Continuous cover
NO	14	177.13	FMP1	-	FMP1474	-	84.62%	0%	15.38%	0%
NO	18	69.23	FMP1	-	FMP1475	-	84.62%	0%	15.38%	0%

Scotland, Public forest estate

CARBINE tree species code	Yield class	Total area of stratum (ha)	Allocated FMPs by index number				Percentage allocation of FMPs to stratum area			
			No harvesting	No thinning, with clearcutting	Thinning, with clearcutting	Continuous cover	No harvesting	No thinning, with clearcutting	Thinning, with clearcutting	Continuous cover
NS	2	255.65	FMP1	FMP3	FMP290	FMP588	19.18%	32.64%	38.50%	9.68%
NS	4	258.00	FMP1	FMP6	FMP293	FMP589	12.84%	42.32%	33.42%	11.41%
NS	6	578.18	FMP1	FMP9	FMP296	FMP590	8.39%	43.27%	25.44%	22.89%
NS	8	1 114.11	FMP1	FMP12	FMP299	FMP591	5.44%	42.36%	30.04%	22.17%
NS	10	1 760.73	FMP1	FMP15	FMP302	FMP592	4.70%	38.55%	32.55%	24.20%
NS	12	2 963.31	FMP1	FMP18	FMP305	FMP593	4.40%	38.26%	28.36%	28.97%
NS	14	2 872.01	FMP1	FMP21	FMP308	FMP594	2.22%	33.39%	25.94%	38.45%
NS	16	1 648.06	FMP1	FMP24	FMP311	FMP595	2.80%	32.42%	24.75%	40.03%
NS	18	724.13	FMP1	FMP27	FMP314	FMP596	2.90%	26.25%	21.78%	49.06%

CARBINE tree species code	Yield class	Total area of stratum (ha)	Allocated FMPs by index number				Percentage allocation of FMPs to stratum area			
			No harvesting	No thinning, with clearcutting	Thinning, with clearcutting	Continuous cover	No harvesting	No thinning, with clearcutting	Thinning, with clearcutting	Continuous cover
NS	20	288.93	FMP1	FMP30	FMP317	FMP597	3.37%	36.94%	23.01%	36.67%
NS	22	109.82	FMP1	FMP33	FMP320	FMP598	6.09%	38.73%	21.62%	33.56%
NS	24	6.89	FMP1	FMP36	-	FMP599	0.44%	44.38%	0.00%	55.18%
NS	26	0.63	FMP1	FMP37	-	FMP600	1.31%	43.52%	0.00%	55.18%
SS	2	2 219.28	FMP1	FMP39	FMP326	FMP602	7.69%	65.08%	25.31%	1.92%
SS	4	2 870.94	FMP1	FMP42	FMP329	FMP603	4.10%	81.02%	9.11%	5.77%
SS	6	4 710.13	FMP1	FMP45	FMP332	FMP604	3.23%	78.10%	15.51%	3.16%
SS	8	9 161.05	FMP1	FMP48	FMP335	FMP605	3.16%	77.22%	16.94%	2.67%
SS	10	15 773.72	FMP1	FMP51	FMP338	FMP606	2.43%	76.17%	18.00%	3.40%
SS	12	34 958.90	FMP1	FMP54	FMP341	FMP607	2.69%	72.01%	21.14%	4.16%
SS	14	44 105.34	FMP1	FMP57	FMP344	FMP608	1.40%	67.12%	24.63%	6.85%
SS	16	49 967.51	FMP1	FMP60	FMP347	FMP609	1.37%	63.07%	28.19%	7.37%
SS	18	22 892.67	FMP1	FMP63	FMP350	FMP610	1.31%	57.68%	29.97%	11.04%
SS	20	11 512.00	FMP1	FMP66	FMP353	FMP611	0.98%	53.86%	32.32%	12.85%
SS	22	5 714.92	FMP1	FMP69	FMP356	FMP612	1.34%	34.93%	46.32%	17.41%
SS	24	6 325.85	FMP1	FMP72	FMP359	FMP613	0.98%	30.02%	52.20%	16.80%
SS	26	365.97	FMP1	FMP75	FMP362	FMP614	0.49%	30.91%	67.24%	1.36%
SS	28	0.07	FMP1	FMP76	FMP365	-	0.65%	30.76%	68.60%	0.00%
SS	30	0.33	FMP1	FMP77	FMP366	-	0.64%	30.76%	68.60%	0.00%
SP	2	2 078.33	FMP1	FMP79	FMP368	FMP616	28.65%	15.94%	28.05%	27.36%
SP	4	2 624.06	FMP1	FMP82	FMP371	FMP617	14.33%	30.01%	24.19%	31.47%

CARBINE tree species code	Yield class	Total area of stratum (ha)	Allocated FMPs by index number				Percentage allocation of FMPs to stratum area			
			No harvesting	No thinning, with clearcutting	Thinning, with clearcutting	Continuous cover	No harvesting	No thinning, with clearcutting	Thinning, with clearcutting	Continuous cover
SP	6	7 199.15	FMP1	FMP85	FMP374	FMP618	4.82%	22.09%	24.24%	48.85%
SP	8	15 481.03	FMP1	FMP88	FMP377	FMP619	3.91%	18.68%	23.79%	53.62%
SP	10	10 591.67	FMP1	FMP91	FMP380	FMP620	3.11%	16.55%	28.14%	52.20%
SP	12	3 434.63	FMP1	FMP94	FMP383	FMP621	3.80%	15.15%	33.86%	47.20%
SP	14	720.13	FMP1	FMP97	FMP386	FMP622	0.69%	11.19%	16.55%	71.57%
SP	16	47.78	FMP1	FMP100	FMP389	FMP623	8.61%	60.38%	2.82%	28.18%
SP	18	1.38	FMP1	-	FMP392	FMP624	0.32%	0.00%	82.66%	17.02%
CP	2	1.92	FMP1	FMP102	FMP395	FMP626	3.38%	57.28%	8.37%	30.96%
CP	4	43.64	FMP1	FMP104	FMP397	FMP627	0.32%	17.87%	17.40%	64.40%
CP	6	312.94	FMP1	FMP107	FMP400	FMP628	0.60%	14.06%	7.53%	77.81%
CP	8	376.25	FMP1	FMP110	FMP403	FMP629	0.89%	12.75%	7.33%	79.03%
CP	10	335.67	FMP1	FMP113	FMP406	FMP630	0.60%	12.13%	5.18%	82.10%
CP	12	225.18	FMP1	FMP116	FMP409	FMP631	6.75%	2.48%	0.72%	90.05%
CP	14	33.65	FMP1	FMP119	FMP412	FMP632	0.32%	11.67%	2.14%	85.88%
CP	16	1.32	FMP1	-	-	FMP633	0.32%	0.00%	0.00%	99.68%
CP	18	2.55	FMP1	-	-	FMP634	38.32%	0.00%	0.00%	61.68%
LP	2	732.10	FMP1	FMP128	FMP423	FMP638	13.80%	61.90%	24.16%	0.14%
LP	4	4 755.85	FMP1	FMP131	FMP426	FMP639	3.05%	83.79%	12.11%	1.06%
LP	6	12 471.48	FMP1	FMP134	FMP429	FMP640	2.75%	79.26%	16.58%	1.41%
LP	8	13 026.54	FMP1	FMP137	FMP432	FMP641	3.57%	78.15%	16.74%	1.53%
LP	10	5 078.09	FMP1	FMP140	FMP435	FMP642	3.76%	75.60%	19.39%	1.25%

CARBINE tree species code	Yield class	Total area of stratum (ha)	Allocated FMPs by index number				Percentage allocation of FMPs to stratum area			
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LP	12	957.12	FMP1	FMP143	FMP438	FMP643	2.86%	72.69%	19.84%	4.61%
LP	14	263.82	FMP1	FMP146	FMP441	FMP644	1.27%	85.11%	11.92%	1.70%
LP	16	36.86	FMP1	FMP148	FMP444	-	0.49%	95.65%	3.85%	0.00%
LP	20	0.42	FMP1	-	FMP448	-	96.15%	0.00%	3.85%	0.00%
EL	2	77.05	FMP1	FMP150	FMP450	FMP648	14.16%	45.47%	28.11%	12.25%
EL	4	275.82	FMP1	FMP152	FMP453	FMP649	2.95%	26.86%	26.45%	43.75%
EL	6	674.28	FMP1	FMP155	FMP456	FMP650	2.54%	21.19%	26.63%	49.65%
EL	8	893.68	FMP1	FMP158	FMP459	FMP651	3.44%	26.05%	24.54%	45.96%
EL	10	739.58	FMP1	FMP161	FMP462	FMP652	1.55%	25.05%	18.28%	55.11%
EL	12	770.39	FMP1	FMP164	FMP465	FMP653	3.63%	26.37%	18.70%	51.30%
EL	14	69.79	FMP1	FMP167	FMP468	FMP654	0.73%	53.45%	35.89%	9.92%
EL	16	0.17	FMP1	FMP168	-	FMP655	0.32%	53.86%	0.00%	45.82%
EL	18	0.11	FMP1	-	-	FMP656	54.18%	0.00%	0.00%	45.82%
JL	2	215.00	FMP1	FMP170	FMP474	FMP657	10.12%	64.10%	11.67%	14.11%
JL	4	1 431.16	FMP1	FMP173	FMP477	FMP658	3.76%	61.43%	21.17%	13.64%
JL	6	2 704.25	FMP1	FMP176	FMP480	FMP659	1.95%	51.04%	27.83%	19.17%
JL	8	4 950.26	FMP1	FMP179	FMP483	FMP660	2.12%	43.09%	29.33%	25.47%
JL	10	5 618.65	FMP1	FMP182	FMP486	FMP661	2.29%	39.24%	30.84%	27.63%
JL	12	4 176.90	FMP1	FMP185	FMP489	FMP662	2.44%	43.64%	25.76%	28.16%
JL	14	1 723.79	FMP1	FMP188	FMP492	FMP663	1.76%	44.79%	28.16%	25.29%
JL	16	174.78	FMP1	FMP191	FMP495	FMP664	1.18%	21.18%	70.59%	7.05%

CARBINE tree species code	Yield class	Total area of stratum (ha)	Allocated FMPs by index number				Percentage allocation of FMPs to stratum area			
			No harvesting	No thinning, with clearcutting	Thinning, with clearcutting	Continuous cover	No harvesting	No thinning, with clearcutting	Thinning, with clearcutting	Continuous cover
JL	18	0.31	FMP1	-	-	FMP665	0.32%	0.00%	0.00%	99.68%
JL	20	0.50	FMP1	FMP193	-	FMP666	0.32%	87.22%	0.00%	12.46%
DF	2	16.99	FMP1	FMP195	FMP501	FMP668	15.05%	11.60%	28.54%	44.82%
DF	4	10.75	FMP1	-	FMP504	FMP669	0.32%	0.00%	2.21%	97.48%
DF	6	24.64	FMP1	FMP197	FMP506	FMP670	3.10%	65.33%	2.31%	29.26%
DF	8	143.29	FMP1	FMP199	FMP509	FMP671	1.59%	25.30%	30.02%	43.09%
DF	10	463.78	FMP1	FMP202	FMP512	FMP672	1.40%	25.07%	36.52%	37.01%
DF	12	783.67	FMP1	FMP205	FMP515	FMP673	1.69%	29.69%	35.21%	33.41%
DF	14	1 032.97	FMP1	FMP208	FMP518	FMP674	1.29%	24.19%	28.62%	45.90%
DF	16	1 125.91	FMP1	FMP211	FMP521	FMP675	0.89%	18.79%	27.96%	52.36%
DF	18	630.87	FMP1	FMP214	FMP524	FMP676	1.10%	15.42%	39.51%	43.97%
DF	20	376.78	FMP1	FMP217	FMP527	FMP677	1.40%	23.62%	34.21%	40.77%
DF	22	162.21	FMP1	FMP220	FMP530	FMP678	0.80%	23.81%	35.62%	39.77%
DF	24	151.33	FMP1	FMP223	FMP533	FMP679	0.34%	34.65%	19.07%	45.94%
DF	26	1.28	FMP1	FMP225	-	FMP680	0.32%	27.43%	0.00%	72.25%
GF	2	6.97	FMP1	FMP226	FMP536	FMP681	24.41%	46.96%	15.94%	12.69%
GF	4	3.60	FMP1	FMP227	FMP537	-	0.32%	29.76%	69.92%	0.00%
GF	6	0.19	FMP1	-	-	FMP683	0.32%	0.00%	0.00%	99.68%
GF	8	3.21	FMP1	FMP228	-	FMP684	2.29%	25.57%	0.00%	72.14%
GF	10	13.40	FMP1	FMP229	FMP540	FMP685	3.04%	49.40%	21.74%	25.82%
GF	12	44.89	FMP1	FMP231	FMP541	FMP686	12.80%	30.34%	26.36%	30.51%

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GF	14	39.19	FMP1	FMP233	FMP542	FMP687	5.28%	38.67%	22.20%	33.84%
GF	16	48.71	FMP1	FMP235	FMP543	FMP688	1.46%	25.36%	43.22%	29.95%
GF	18	28.42	FMP1	FMP237	FMP544	FMP689	3.31%	28.94%	15.78%	51.97%
GF	20	46.33	FMP1	FMP239	FMP545	FMP690	0.82%	27.39%	38.62%	33.18%
GF	22	32.39	FMP1	FMP241	FMP546	FMP691	1.74%	13.42%	17.17%	67.67%
GF	24	13.23	FMP1	FMP243	FMP547	FMP692	0.32%	9.72%	21.93%	68.03%
GF	26	7.72	FMP1	FMP245	FMP548	FMP693	4.62%	4.91%	38.00%	52.47%
GF	28	10.40	FMP1	FMP247	FMP549	FMP694	0.37%	0.97%	0.78%	97.88%
GF	30	5.81	FMP1	FMP248	FMP550	-	0.61%	0.73%	98.66%	0.00%
NF	2	23.04	FMP1	FMP249	FMP551	FMP696	3.83%	33.87%	24.63%	37.66%
NF	4	15.89	FMP1	FMP250	FMP552	FMP697	4.21%	38.94%	0.04%	56.81%
NF	6	7.91	FMP1	FMP251	FMP553	FMP698	5.13%	69.58%	16.65%	8.64%
NF	8	32.50	FMP1	FMP252	FMP554	FMP699	10.55%	68.76%	4.51%	16.18%
NF	10	77.85	FMP1	FMP253	FMP555	FMP700	5.47%	64.47%	26.00%	4.06%
NF	12	131.42	FMP1	FMP254	FMP556	FMP701	5.14%	59.26%	25.39%	10.21%
NF	14	133.53	FMP1	FMP255	FMP557	FMP702	1.24%	60.61%	26.38%	11.78%
NF	16	91.77	FMP1	FMP256	FMP558	FMP703	2.65%	44.75%	35.97%	16.63%
NF	18	32.39	FMP1	FMP257	FMP559	FMP704	3.59%	43.66%	11.98%	40.77%
NF	20	23.01	FMP1	FMP258	FMP560	FMP705	6.18%	57.42%	12.27%	24.12%
NF	22	43.83	FMP1	FMP259	FMP561	FMP706	1.33%	41.71%	17.75%	39.21%
NF	24	5.41	FMP1	FMP260	FMP562	FMP707	2.76%	17.39%	8.14%	71.71%

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			No harvesting	No thinning, with clearcutting	Thinning, with clearcutting	Continuous cover	No harvesting	No thinning, with clearcutting	Thinning, with clearcutting	Continuous cover
NF	26	0.16	FMP1	FMP261	-	-	1.32%	98.68%	0.00%	0.00%
NF	28	0.42	FMP1	FMP262	-	-	1.31%	98.69%	0.00%	0.00%
WH	2	6.36	FMP1	FMP263	FMP563	FMP708	2.17%	33.32%	1.60%	62.91%
WH	4	2.61	FMP1	FMP264	FMP564	FMP709	32.05%	28.34%	0.98%	38.63%
WH	6	8.36	FMP1	FMP265	FMP565	FMP710	13.09%	8.60%	1.94%	76.37%
WH	8	25.08	FMP1	FMP266	FMP566	FMP711	2.83%	29.37%	1.68%	66.12%
WH	10	28.57	FMP1	FMP267	FMP567	FMP712	13.86%	35.60%	25.81%	24.73%
WH	12	97.46	FMP1	FMP268	FMP568	FMP713	5.26%	44.12%	24.62%	26.00%
WH	14	103.82	FMP1	FMP269	FMP569	FMP714	4.87%	46.89%	21.10%	27.13%
WH	16	72.24	FMP1	FMP270	FMP570	FMP715	1.96%	49.01%	15.23%	33.80%
WH	18	68.97	FMP1	FMP271	FMP571	FMP716	1.53%	61.30%	26.67%	10.50%
WH	20	43.17	FMP1	FMP272	FMP572	FMP717	0.53%	51.70%	20.47%	27.30%
WH	22	23.75	FMP1	FMP273	FMP573	-	9.03%	43.69%	47.28%	0.00%
WH	24	17.48	FMP1	FMP274	FMP574	-	4.91%	56.86%	38.23%	0.00%
WH	26	3.71	FMP1	FMP275	FMP575	-	32.01%	64.76%	3.22%	0.00%
RC	2	3.40	FMP1	FMP276	-	FMP721	10.39%	43.36%	0.00%	46.25%
RC	4	5.55	FMP1	FMP277	-	FMP722	1.78%	15.34%	0.00%	82.88%
RC	6	3.80	FMP1	FMP278	FMP578	FMP723	0.49%	19.07%	27.57%	52.87%
RC	8	13.99	FMP1	FMP279	FMP579	FMP724	9.01%	16.75%	69.30%	4.93%
RC	10	11.83	FMP1	FMP280	FMP580	FMP725	3.54%	30.23%	48.50%	17.73%
RC	12	28.51	FMP1	FMP281	FMP581	FMP726	2.28%	24.60%	21.29%	51.83%

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			No harvesting	No thinning, with clearcutting	Thinning, with clearcutting	Continuous cover	No harvesting	No thinning, with clearcutting	Thinning, with clearcutting	Continuous cover
RC	14	20.99	FMP1	FMP282	FMP582	FMP727	2.37%	52.24%	7.00%	38.39%
RC	16	21.87	FMP1	FMP283	FMP583	FMP728	2.42%	51.87%	31.40%	14.31%
RC	18	9.73	FMP1	FMP284	FMP584	FMP729	5.32%	63.99%	6.30%	24.39%
RC	20	7.06	FMP1	FMP285	FMP585	-	0.32%	90.55%	9.13%	0.00%
RC	22	0.16	FMP1	FMP286	FMP586	-	0.46%	90.40%	9.13%	0.00%
RC	24	0.89	FMP1	FMP287	FMP587	-	1.74%	11.40%	86.85%	0.00%
OK	2	1 135.46	FMP1	-	-	FMP733	97.40%	0%	0%	2.60%
OK	4	1 270.51	FMP1	-	-	FMP734	97.50%	0%	0%	2.50%
OK	6	235.47	FMP1	-	-	FMP735	97.44%	0%	0%	2.56%
OK	8	25.87	FMP1	-	-	FMP736	96.74%	0%	0%	3.26%
OK	10	6.85	FMP1	-	-	FMP737	96.86%	0%	0%	3.14%
OK	12	1.34	FMP1	-	-	FMP738	98.09%	0%	0%	1.91%
OK	14	4.28	FMP1	-	-	FMP739	98.56%	0%	0%	1.44%
OK	16	2.50	FMP1	-	-	FMP740	96.74%	0%	0%	3.26%
AH	2	133.60	FMP1	-	-	FMP742	97.65%	0%	0%	2.35%
AH	4	153.30	FMP1	-	-	FMP743	97.78%	0%	0%	2.22%
AH	6	120.20	FMP1	-	-	FMP744	97.49%	0%	0%	2.51%
AH	8	120.00	FMP1	-	-	FMP745	98.05%	0%	0%	1.95%
AH	10	5.07	FMP1	-	-	FMP746	98.20%	0%	0%	1.80%
AH	12	3.23	FMP1	-	-	FMP747	98.17%	0%	0%	1.83%
AH	16	0.47	FMP1	-	-	FMP749	97.54%	0%	0%	2.46%

CARBINE tree species code	Yield class	Total area of stratum (ha)	Allocated FMPs by index number				Percentage allocation of FMPs to stratum area			
			No harvesting	No thinning, with clearcutting	Thinning, with clearcutting	Continuous cover	No harvesting	No thinning, with clearcutting	Thinning, with clearcutting	Continuous cover
AH	20	0.84	FMP1	-	-	FMP751	97.20%	0%	0%	2.80%
BE	2	159.42	FMP1	-	-	FMP752	96.95%	0%	0%	3.05%
BE	4	205.32	FMP1	-	-	FMP753	97.66%	0%	0%	2.34%
BE	6	225.97	FMP1	-	-	FMP754	97.64%	0%	0%	2.36%
BE	8	41.66	FMP1	-	-	FMP755	96.84%	0%	0%	3.16%
BE	10	5.61	FMP1	-	-	FMP756	97.13%	0%	0%	2.87%
BE	12	1.48	FMP1	-	-	FMP757	96.74%	0%	0%	3.26%
BE	14	1.41	FMP1	-	-	FMP758	96.74%	0%	0%	3.26%
BE	18	0.13	FMP1	-	-	FMP760	96.74%	0%	0%	3.26%
BI	2	6 470.66	FMP1	-	-	FMP761	97.65%	0%	0%	2.35%
BI	4	3 928.41	FMP1	-	-	FMP762	97.78%	0%	0%	2.22%
BI	6	1 539.69	FMP1	-	-	FMP763	97.49%	0%	0%	2.51%
BI	8	245.26	FMP1	-	-	FMP764	98.05%	0%	0%	1.95%
BI	10	84.32	FMP1	-	-	FMP765	98.20%	0%	0%	1.80%
BI	12	44.72	FMP1	-	-	FMP766	98.17%	0%	0%	1.83%
BI	14	17.57	FMP1	-	-	FMP767	98.45%	0%	0%	1.55%
BI	16	2.64	FMP1	-	-	FMP768	97.54%	0%	0%	2.46%
BI	18	0.82	FMP1	-	-	FMP769	97.40%	0%	0%	2.60%
BI	22	0.12	FMP1	-	-	FMP771	97.20%	0%	0%	2.80%
SY	2	8 252.17	FMP1	-	-	FMP772	97.65%	0%	0%	2.35%
SY	4	3 530.45	FMP1	-	-	FMP773	97.78%	0%	0%	2.22%

CARBINE tree species code	Yield class	Total area of stratum (ha)	Allocated FMPs by index number				Percentage allocation of FMPs to stratum area			
			No harvesting	No thinning, with clearcutting	Thinning, with clearcutting	Continuous cover	No harvesting	No thinning, with clearcutting	Thinning, with clearcutting	Continuous cover
SY	6	1 719.60	FMP1	-	-	FMP774	97.49%	0%	0%	2.51%
SY	8	207.62	FMP1	-	-	FMP775	98.05%	0%	0%	1.95%
SY	10	53.30	FMP1	-	-	FMP776	98.20%	0%	0%	1.80%
SY	12	97.10	FMP1	-	-	FMP777	98.17%	0%	0%	1.83%
SY	14	43.13	FMP1	-	-	FMP778	98.45%	0%	0%	1.55%
SY	16	11.69	FMP1	-	-	FMP779	97.54%	0%	0%	2.46%
SY	18	14.88	FMP1	-	-	FMP780	97.40%	0%	0%	2.60%
SY	20	1.06	FMP1	-	-	FMP781	97.20%	0%	0%	2.80%
SY	24	0.10	FMP1	-	-	FMP783	97.20%	0%	0%	2.80%
PO	2	34.35	FMP1	-	-	FMP784	97.65%	0%	0%	2.35%
PO	4	32.89	FMP1	-	-	FMP785	97.78%	0%	0%	2.22%
PO	6	12.98	FMP1	-	-	FMP786	97.49%	0%	0%	2.51%
PO	8	8.40	FMP1	-	-	FMP787	98.05%	0%	0%	1.95%
PO	10	1.00	FMP1	-	-	FMP788	98.20%	0%	0%	1.80%
PO	12	0.15	FMP1	-	-	FMP789	98.17%	0%	0%	1.83%
PO	14	0.13	FMP1	-	-	FMP790	98.45%	0%	0%	1.55%
NO	2	1.03	FMP1	-	-	FMP793	97.65%	0%	0%	2.35%
NO	4	2.74	FMP1	-	-	FMP794	97.78%	0%	0%	2.22%
NO	6	1.13	FMP1	-	-	FMP795	97.49%	0%	0%	2.51%
NO	8	0.90	FMP1	-	-	FMP796	98.05%	0%	0%	1.95%
NO	10	3.81	FMP1	-	-	FMP797	98.20%	0%	0%	1.80%

CARBINE tree species code	Yield class	Total area of stratum (ha)	Allocated FMPs by index number				Percentage allocation of FMPs to stratum area			
			No harvesting	No thinning, with clearcutting	Thinning, with clearcutting	Continuous cover	No harvesting	No thinning, with clearcutting	Thinning, with clearcutting	Continuous cover
NO	12	0.83	FMP1	-	-	FMP798	98.17%	0%	0%	1.83%
NO	14	1.25	FMP1	-	-	FMP799	98.45%	0%	0%	1.55%
NO	18	0.06	FMP1	-	-	FMP801	97.40%	0%	0%	2.60%

Scotland, Private sector

CARBIN E tree species code	Yield clas s	Total area of stratu m (ha)	Allocated FMPs by index number				Percentage allocation of FMPs to stratum area			
			No harvestin g	No thinning, with clearcuttin g	Thinning, with clearcuttin g	Continuo us cover	No harvestin g	No thinning, with clearcuttin g	Thinning, with clearcuttin g	Continuo us cover
NS	6	711.77	FMP1	FMP804	FMP1104	-	58.28%	35.07%	6.65%	0%
NS	8	859.35	FMP1	FMP807	FMP1107	-	19.14%	67.86%	13.00%	0%
NS	10	1 495.85	FMP1	FMP810	FMP1110	-	19.81%	59.09%	21.10%	0%
NS	12	2 024.03	FMP1	FMP812	FMP1113	-	17.42%	64.80%	17.78%	0%
NS	14	2 189.49	FMP1	FMP814	FMP1116	-	25.00%	51.57%	23.43%	0%
NS	16	2 691.80	FMP1	FMP816	FMP1119	-	17.16%	58.15%	24.69%	0%

CARBIN E tree species code	Yield clas s	Total area of stratu m (ha)	Allocated FMPs by index number				Percentage allocation of FMPs to stratum area			
			No harvestin g	No thinning, with clearcuttin g	Thinning, with clearcuttin g	Continuou s cover	No harvestin g	No thinning, with clearcuttin g	Thinning, with clearcuttin g	Continuou s cover
NS	18	1 666.90	FMP1	FMP818	FMP1122	-	17.16%	57.76%	25.08%	0%
NS	20	1 137.91	FMP1	FMP820	FMP1125	-	17.16%	60.93%	21.91%	0%
NS	22	1 689.68	FMP1	FMP822	FMP1126	-	17.16%	60.93%	21.91%	0%
SS	6	18 381.00	FMP1	FMP824	FMP1129	-	19.18%	73.06%	7.76%	0%
SS	8	18 742.27	FMP1	FMP827	FMP1131	-	17.58%	74.65%	7.76%	0%
SS	10	25 641.57	FMP1	FMP830	FMP1133	-	18.78%	71.53%	9.69%	0%
SS	12	33 610.04	FMP1	FMP832	FMP1135	-	17.35%	69.77%	12.88%	0%
SS	14	43 139.37	FMP1	FMP835	FMP1138	-	17.48%	68.14%	14.39%	0%
SS	16	38 907.92	FMP1	FMP838	FMP1141	-	17.27%	68.16%	14.57%	0%
SS	18	37 406.67	FMP1	FMP841	FMP1144	-	17.33%	66.44%	16.23%	0%
SS	20	32 994.32	FMP1	FMP844	FMP1147	-	18.08%	68.24%	13.68%	0%
SS	22	21 215.96	FMP1	FMP847	FMP1150	-	17.24%	71.70%	11.06%	0%
SS	24	30 545.16	FMP1	FMP850	FMP1153	-	17.31%	68.71%	13.98%	0%
SS	26	1 761.07	FMP1	FMP852	FMP1156	-	17.24%	68.77%	13.99%	0%
SS	28	0.34	FMP1	FMP854	FMP1159	-	17.24%	68.77%	13.99%	0%
SS	30	1.60	FMP1	FMP855	FMP1160	-	17.24%	68.77%	13.99%	0%
SP	4	24 479.37	FMP1	FMP857	FMP1162	-	66.86%	22.44%	10.70%	0%
SP	6	11 543.15	FMP1	FMP860	FMP1165	-	31.77%	40.29%	27.94%	0%
SP	8	19 239.74	FMP1	FMP863	FMP1168	-	24.13%	24.67%	51.19%	0%
SP	10	22 309.56	FMP1	FMP866	FMP1171	-	20.29%	27.72%	51.98%	0%

CARBIN E tree species code	Yield clas s	Total area of stratu m (ha)	Allocated FMPs by index number				Percentage allocation of FMPs to stratum area			
			No harvestin g	No thinning, with clearcuttin g	Thinning, with clearcuttin g	Continuou s cover	No harvestin g	No thinning, with clearcuttin g	Thinning, with clearcuttin g	Continuou s cover
SP	12	19 949.75	FMP1	FMP869	FMP1174	-	19.31%	29.60%	51.09%	0%
SP	14	21 941.88	FMP1	FMP872	FMP1177	-	18.15%	70.13%	11.72%	0%
CP	4	25.84	FMP1	FMP877	FMP1181	-	17.16%	36.16%	46.69%	0%
CP	6	209.03	FMP1	FMP878	FMP1184	-	17.62%	35.95%	46.42%	0%
CP	8	347.98	FMP1	FMP879	FMP1187	-	17.20%	36.14%	46.66%	0%
CP	10	588.50	FMP1	FMP880	FMP1190	-	17.16%	36.16%	46.69%	0%
CP	12	873.17	FMP1	FMP881	FMP1193	-	17.16%	36.16%	46.69%	0%
CP	14	320.81	FMP1	FMP877	FMP1196	-	17.16%	36.16%	46.69%	0%
LP	4	3 005.67	FMP1	FMP883	FMP1206	-	17.16%	74.56%	8.28%	0%
LP	6	8 547.45	FMP1	FMP886	FMP1209	-	17.88%	72.12%	10.00%	0%
LP	8	12 482.76	FMP1	FMP889	FMP1212	-	17.28%	72.43%	10.29%	0%
LP	10	9 216.45	FMP1	FMP892	FMP1215	-	17.60%	72.86%	9.54%	0%
LP	12	3 543.61	FMP1	FMP895	FMP1218	-	17.16%	74.90%	7.95%	0%
LP	14	2 113.53	FMP1	FMP898	FMP1221	-	17.16%	80.10%	2.74%	0%
LP	20	78.75	FMP1	FMP903	FMP1226	-	17.16%	80.10%	2.74%	0%
EL	2	148.15	FMP1	FMP905	FMP1228	-	17.16%	24.85%	57.99%	0%
EL	4	633.65	FMP1	FMP907	FMP1230	-	23.55%	22.93%	53.51%	0%
EL	6	1 343.72	FMP1	FMP910	FMP1233	-	20.30%	50.85%	28.86%	0%
EL	8	931.01	FMP1	FMP913	FMP1236	-	17.26%	50.62%	32.12%	0%
EL	10	952.22	FMP1	FMP916	FMP1239	-	18.16%	24.55%	57.28%	0%

CARBIN E tree species code	Yield clas s	Total area of stratu m (ha)	Allocated FMPs by index number				Percentage allocation of FMPs to stratum area			
			No harvestin g	No thinning, with clearcuttin g	Thinning, with clearcuttin g	Continuou s cover	No harvestin g	No thinning, with clearcuttin g	Thinning, with clearcuttin g	Continuou s cover
EL	12	946.30	FMP1	FMP919	FMP1242	-	19.33%	24.20%	56.47%	0%
EL	14	217.99	FMP1	FMP922	FMP1245	-	26.35%	22.10%	51.56%	0%
JL	2	379.63	FMP1	FMP925	FMP1248	-	17.30%	64.05%	18.65%	0%
JL	4	3 236.37	FMP1	FMP927	FMP1250	-	28.56%	55.33%	16.11%	0%
JL	6	5 654.76	FMP1	FMP930	FMP1253	-	23.52%	57.55%	18.92%	0%
JL	8	5 348.34	FMP1	FMP933	FMP1256	-	17.89%	63.14%	18.98%	0%
JL	10	7 554.32	FMP1	FMP936	FMP1259	-	18.34%	64.86%	16.80%	0%
JL	12	6 565.88	FMP1	FMP939	FMP1262	-	20.13%	68.12%	11.75%	0%
JL	14	6 626.05	FMP1	FMP942	FMP1265	-	19.36%	74.85%	5.79%	0%
DF	6	318.25	FMP1	FMP945	FMP1268	-	93.18%	2.73%	4.09%	0%
DF	8	1 581.28	FMP1	FMP948	FMP1271	-	42.15%	23.14%	34.71%	0%
DF	10	1 833.20	FMP1	FMP951	FMP1274	-	21.21%	31.51%	47.27%	0%
DF	12	3 058.41	FMP1	FMP954	FMP1277	-	24.79%	42.46%	32.75%	0%
DF	14	1 676.36	FMP1	FMP957	FMP1280	-	19.18%	47.05%	33.77%	0%
DF	16	727.46	FMP1	FMP960	FMP1283	-	17.92%	32.83%	49.25%	0%
DF	18	765.36	FMP1	FMP963	FMP1286	-	17.92%	32.83%	49.25%	0%
DF	20	271.01	FMP1	FMP965	FMP1289	-	17.83%	32.87%	49.30%	0%
DF	22	731.70	FMP1	FMP967	FMP1292	-	49.85%	20.06%	30.09%	0%
DF	24	512.89	FMP1	FMP969	FMP1295	-	17.69%	32.92%	49.39%	0%
DF	26	4.32	FMP1	FMP971	FMP1298	-	17.92%	32.83%	49.25%	0%

CARBIN E tree species code	Yield clas s	Total area of stratu m (ha)	Allocated FMPs by index number				Percentage allocation of FMPs to stratum area			
			No harvestin g	No thinning, with clearcuttin g	Thinning, with clearcuttin g	Continuou s cover	No harvestin g	No thinning, with clearcuttin g	Thinning, with clearcuttin g	Continuou s cover
GF	6	2.49	FMP1	FMP973	FMP1300	-	71.41%	22.87%	5.72%	0%
GF	8	31.37	FMP1	FMP975	FMP1302	-	32.62%	53.90%	13.48%	0%
GF	10	39.77	FMP1	FMP977	FMP1304	-	39.72%	48.22%	12.06%	0%
GF	12	153.18	FMP1	FMP980	FMP1307	-	25.42%	59.66%	14.92%	0%
GF	14	68.74	FMP1	FMP983	FMP1310	-	21.91%	62.47%	15.62%	0%
GF	16	33.27	FMP1	FMP985	FMP1313	-	17.94%	65.65%	16.41%	0%
GF	18	38.73	FMP1	FMP988	FMP1316	-	17.76%	65.79%	16.45%	0%
GF	20	34.43	FMP1	FMP991	FMP1319	-	17.98%	65.62%	16.40%	0%
GF	22	157.28	FMP1	FMP994	FMP1322	-	44.90%	44.08%	11.02%	0%
GF	24	45.33	FMP1	FMP997	FMP1325	-	17.97%	65.62%	16.41%	0%
GF	26	26.45	FMP1	FMP1000	FMP1328	-	17.44%	66.04%	16.51%	0%
GF	28	35.64	FMP1	FMP1003	FMP1331	-	46.56%	42.75%	10.69%	0%
GF	30	19.90	FMP1	FMP1006	FMP1334	-	45.46%	43.63%	10.91%	0%
NF	6	93.74	FMP1	FMP1009	FMP1337	-	88.50%	9.20%	2.30%	0%
NF	8	333.77	FMP1	FMP1012	FMP1340	-	39.55%	48.36%	12.09%	0%
NF	10	251.76	FMP1	FMP1015	FMP1343	-	26.19%	59.05%	14.76%	0%
NF	12	373.00	FMP1	FMP1018	FMP1346	-	25.85%	59.32%	14.83%	0%
NF	14	181.16	FMP1	FMP1021	FMP1349	-	19.61%	64.32%	16.08%	0%
NF	16	51.38	FMP1	FMP1023	FMP1352	-	22.03%	62.37%	15.59%	0%
NF	18	37.92	FMP1	FMP1026	FMP1355	-	17.82%	65.74%	16.44%	0%

CARBIN E tree species code	Yield clas s	Total area of stratu m (ha)	Allocated FMPs by index number				Percentage allocation of FMPs to stratum area			
			No harvestin g	No thinning, with clearcuttin g	Thinning, with clearcuttin g	Continuou s cover	No harvestin g	No thinning, with clearcuttin g	Thinning, with clearcuttin g	Continuou s cover
NF	20	15.52	FMP1	FMP1029	FMP1358	-	18.00%	65.60%	16.40%	0%
NF	22	193.20	FMP1	FMP1032	FMP1361	-	47.85%	41.72%	10.43%	0%
NF	24	16.82	FMP1	FMP1034	FMP1363	-	17.43%	66.05%	16.51%	0%
NF	26	0.49	FMP1	FMP1036	FMP1365	-	17.48%	66.02%	16.50%	0%
NF	28	1.29	FMP1	FMP1037	FMP1366	-	17.43%	66.05%	16.51%	0%
WH	6	99.68	FMP1	FMP1041	FMP1370	-	71.22%	23.03%	5.76%	0%
WH	8	269.68	FMP1	FMP1044	FMP1373	-	38.54%	49.17%	12.29%	0%
WH	10	110.30	FMP1	FMP1047	FMP1376	-	21.10%	63.12%	15.78%	0%
WH	12	385.83	FMP1	FMP1050	FMP1379	-	23.63%	61.10%	15.27%	0%
WH	14	147.55	FMP1	FMP1053	FMP1382	-	17.66%	65.88%	16.47%	0%
WH	16	51.05	FMP1	FMP1055	FMP1385	-	17.85%	65.72%	16.43%	0%
WH	18	93.30	FMP1	FMP1058	FMP1388	-	17.80%	65.76%	16.44%	0%
WH	20	30.28	FMP1	FMP1061	FMP1391	-	17.85%	65.72%	16.43%	0%
WH	22	108.87	FMP1	FMP1064	FMP1394	-	48.90%	40.88%	10.22%	0%
WH	24	56.54	FMP1	FMP1067	FMP1397	-	49.51%	40.40%	10.10%	0%
WH	26	12.00	FMP1	FMP1069	FMP1399	-	46.42%	42.87%	10.72%	0%
RC	6	44.57	FMP1	FMP1074	FMP1404	-	81.19%	15.05%	3.76%	0%
RC	8	128.72	FMP1	FMP1077	FMP1407	-	41.52%	46.79%	11.70%	0%
RC	10	33.10	FMP1	FMP1080	FMP1410	-	21.20%	63.04%	15.76%	0%
RC	12	82.74	FMP1	FMP1083	FMP1413	-	25.46%	59.63%	14.91%	0%

CARBIN E tree species code	Yield clas s	Total area of stratu m (ha)	Allocated FMPs by index number				Percentage allocation of FMPs to stratum area			
			No harvestin g	No thinning, with clearcuttin g	Thinning, with clearcuttin g	Continuou s cover	No harvestin g	No thinning, with clearcuttin g	Thinning, with clearcuttin g	Continuou s cover
RC	14	25.74	FMP1	FMP1086	FMP1416	-	19.92%	64.06%	16.02%	0%
RC	16	11.86	FMP1	FMP1088	FMP1419	-	17.59%	65.93%	16.48%	0%
RC	18	12.52	FMP1	FMP1091	FMP1422	-	17.70%	65.84%	16.46%	0%
RC	20	4.71	FMP1	FMP1094	FMP1425	-	17.70%	65.84%	16.46%	0%
RC	22	0.72	FMP1	FMP1097	FMP1428	-	45.63%	43.50%	10.87%	0%
RC	24	2.74	FMP1	FMP1100	FMP1431	-	29.11%	56.71%	14.18%	0%
OK	2	6 127.39	FMP1	-	FMP1433	-	91.65%	0%	8.35%	0%
OK	4	10 513.63	FMP1	-	FMP1434	-	91.65%	0%	8.35%	0%
OK	6	5 234.35	FMP1	-	FMP1435	-	92.52%	0%	7.48%	0%
OK	8	2 105.31	FMP1	-	FMP1436	-	88.84%	0%	11.16%	0%
AH	2	3 913.72	FMP1	-	FMP1437	-	91.65%	0%	8.35%	0%
AH	4	3 535.45	FMP1	-	FMP1438	-	91.65%	0%	8.35%	0%
AH	6	2 947.32	FMP1	-	FMP1439	-	91.73%	0%	8.27%	0%
AH	8	1 745.78	FMP1	-	FMP1440	-	91.73%	0%	8.27%	0%
AH	10	1 248.16	FMP1	-	FMP1441	-	91.65%	0%	8.35%	0%
AH	12	1 599.88	FMP1	-	FMP1442	-	91.65%	0%	8.35%	0%
BE	4	3 718.87	FMP1	-	FMP1444	-	91.65%	0%	8.35%	0%
BE	6	5 165.25	FMP1	-	FMP1445	-	92.20%	0%	7.80%	0%
BE	8	2 910.94	FMP1	-	FMP1446	-	91.65%	0%	8.35%	0%
BE	10	2 650.74	FMP1	-	FMP1447	-	91.91%	0%	8.09%	0%

CARBIN E tree species code	Yield clas s	Total area of stratu m (ha)	Allocated FMPs by index number				Percentage allocation of FMPs to stratum area			
			No harvestin g	No thinning, with clearcuttin g	Thinning, with clearcuttin g	Continuou s cover	No harvestin g	No thinning, with clearcuttin g	Thinning, with clearcuttin g	Continuou s cover
BI	2	75 883.42	FMP1	-	FMP1449	-	91.65%	0%	8.35%	0%
BI	4	28 903.61	FMP1	-	FMP1450	-	91.65%	0%	8.35%	0%
BI	6	14 173.61	FMP1	-	FMP1451	-	91.65%	0%	8.35%	0%
BI	8	5 830.86	FMP1	-	FMP1452	-	91.65%	0%	8.35%	0%
BI	10	3 785.42	FMP1	-	FMP1453	-	91.65%	0%	8.35%	0%
BI	12	1 767.41	FMP1	-	FMP1454	-	91.65%	0%	8.35%	0%
SY	2	62 263.33	FMP1	-	FMP1455	-	99.28%	0%	0.72%	0%
SY	4	2 843.39	FMP1	-	FMP1456	-	91.65%	0%	8.35%	0%
SY	6	4 301.90	FMP1	-	FMP1457	-	93.47%	0%	6.53%	0%
SY	8	3 101.46	FMP1	-	FMP1458	-	91.72%	0%	8.28%	0%
SY	10	2 530.31	FMP1	-	FMP1459	-	91.76%	0%	8.24%	0%
SY	12	2 854.86	FMP1	-	FMP1460	-	91.65%	0%	8.35%	0%
PO	2	27 290.51	FMP1	-	FMP1461	-	91.65%	0%	8.35%	0%
PO	4	13 713.80	FMP1	-	FMP1462	-	91.65%	0%	8.35%	0%
PO	6	6 212.08	FMP1	-	FMP1463	-	91.65%	0%	8.35%	0%
PO	8	3 260.91	FMP1	-	FMP1464	-	91.65%	0%	8.35%	0%
PO	10	416.91	FMP1	-	FMP1465	-	91.65%	0%	8.35%	0%
PO	12	132.09	FMP1	-	FMP1466	-	91.65%	0%	8.35%	0%
NO	2	912.47	FMP1	-	FMP1468	-	91.65%	0%	8.35%	0%
NO	4	1 275.71	FMP1	-	FMP1469	-	91.65%	0%	8.35%	0%

CARBINE tree species code	Yield classes	Total area of stratum (ha)	Allocated FMPs by index number				Percentage allocation of FMPs to stratum area			
			No harvesting	No thinning, with clearcutting	Thinning, with clearcutting	Continuous cover	No harvesting	No thinning, with clearcutting	Thinning, with clearcutting	Continuous cover
NO	6	601.80	FMP1	-	FMP1470	-	91.77%	0%	8.23%	0%
NO	8	392.13	FMP1	-	FMP1471	-	92.20%	0%	7.80%	0%
NO	10	1 769.68	FMP1	-	FMP1472	-	91.78%	0%	8.22%	0%
NO	12	803.11	FMP1	-	FMP1473	-	91.72%	0%	8.28%	0%

Wales, Public forest estate

CARBINE tree species code	Yield class	Total area of stratum (ha)	Allocated FMPs by index number				Percentage allocation of FMPs to stratum area			
			No harvesting	No thinning, with clearcutting	Thinning, with clearcutting	Continuous cover	No harvesting	No thinning, with clearcutting	Thinning, with clearcutting	Continuous cover
NS	2	133.93	FMP1	FMP4	FMP291	FMP588	15.71%	12.45%	36.63%	35.21%
NS	4	67.48	FMP1	FMP7	FMP294	FMP589	9.19%	25.85%	26.09%	38.86%
NS	6	135.64	FMP1	FMP10	FMP497	FMP590	15.63%	23.82%	32.91%	27.65%
NS	8	329.07	FMP1	FMP13	FMP300	FMP591	7.90%	26.58%	40.16%	25.36%
NS	10	1 019.69	FMP1	FMP16	FMP303	FMP592	8.25%	21.66%	23.83%	46.26%
NS	12	1 809.34	FMP1	FMP19	FMP306	FMP593	10.36%	19.28%	31.72%	38.63%
NS	14	1 284.62	FMP1	FMP22	FMP309	FMP594	4.94%	16.84%	35.41%	42.80%
NS	16	993.77	FMP1	FMP25	FMP312	FMP595	5.89%	22.13%	28.66%	43.32%

CARBINE tree species code	Yield class	Total area of stratum (ha)	Allocated FMPs by index number				Percentage allocation of FMPs to stratum area			
			No harvesting	No thinning, with clearcutting	Thinning, with clearcutting	Continuous cover	No harvesting	No thinning, with clearcutting	Thinning, with clearcutting	Continuous cover
NS	18	562.92	FMP1	FMP28	FMP315	FMP596	3.36%	21.90%	25.22%	49.52%
NS	20	289.78	FMP1	FMP31	FMP318	FMP597	6.14%	21.34%	31.48%	41.04%
NS	22	221.48	FMP1	FMP34	FMP321	FMP598	3.30%	16.94%	45.72%	34.03%
NS	24	6.55	FMP1	-	FMP323	FMP599	1.96%	0.00%	30.67%	67.37%
SS	2	524.14	FMP1	FMP40	FMP327	FMP602	10.68%	48.95%	36.97%	3.40%
SS	4	450.96	FMP1	FMP43	FMP330	FMP603	8.71%	29.29%	61.81%	0.19%
SS	6	678.23	FMP1	FMP46	FMP333	FMP604	6.25%	54.25%	36.09%	3.42%
SS	8	1 435.85	FMP1	FMP49	FMP336	FMP605	7.64%	56.47%	34.33%	1.55%
SS	10	3 423.47	FMP1	FMP52	FMP339	FMP606	7.36%	40.97%	45.36%	6.31%
SS	12	12 422.70	FMP1	FMP55	FMP342	FMP607	6.73%	31.08%	53.90%	8.29%
SS	14	11 394.00	FMP1	FMP58	FMP345	FMP608	5.29%	28.07%	53.80%	12.84%
SS	16	8 286.62	FMP1	FMP61	FMP348	FMP609	5.24%	27.97%	51.03%	15.76%
SS	18	4 852.20	FMP1	FMP64	FMP351	FMP610	3.51%	22.57%	52.99%	20.93%
SS	20	2 614.64	FMP1	FMP67	FMP254	FMP611	2.89%	16.96%	62.54%	17.61%
SS	22	1 709.29	FMP1	FMP70	FMP257	FMP612	2.83%	17.11%	56.19%	23.87%
SS	24	2 013.92	FMP1	FMP73	FMP360	FMP613	2.25%	8.43%	69.84%	19.49%
SS	26	3.31	FMP1	-	FMP363	-	1.96%	0.00%	98.04%	0.00%
SP	2	11.04	FMP1	FMP80	FMP369	FMP616	27.98%	14.26%	29.26%	28.49%
SP	4	68.82	FMP1	FMP83	FMP372	FMP617	11.80%	24.35%	15.25%	48.60%
SP	6	204.82	FMP1	FMP86	FMP375	FMP618	10.95%	25.50%	29.53%	34.03%
SP	8	555.05	FMP1	FMP89	FMP378	FMP619	7.72%	26.36%	18.39%	47.53%
SP	10	943.95	FMP1	FMP92	FMP381	FMP620	9.92%	25.93%	17.67%	46.49%

CARBINE tree species code	Yield class	Total area of stratum (ha)	Allocated FMPs by index number				Percentage allocation of FMPs to stratum area			
			No harvesting	No thinning, with clearcutting	Thinning, with clearcutting	Continuous cover	No harvesting	No thinning, with clearcutting	Thinning, with clearcutting	Continuous cover
SP	12	371.15	FMP1	FMP95	FMP384	FMP621	14.32%	24.30%	8.49%	52.88%
SP	14	145.55	FMP1	FMP98	FMP387	FMP622	5.04%	21.39%	24.49%	49.08%
SP	16	52.14	FMP1	-	FMP390	FMP623	1.96%	0.00%	9.59%	88.44%
SP	20	0.66	FMP1	-	FMP393	FMP625	1.96%	0.00%	0.03%	98.00%
CP	2	18.07	FMP1	FMP103	-	FMP626	6.26%	7.99%	0.00%	85.75%
CP	4	9.40	FMP1	FMP105	FMP398	FMP627	38.51%	41.68%	0.05%	19.76%
CP	6	79.13	FMP1	FMP108	FMP401	FMP628	2.84%	18.17%	39.91%	39.08%
CP	8	158.80	FMP1	FMP111	FMP404	FMP629	4.29%	15.73%	7.76%	72.22%
CP	10	394.71	FMP1	FMP114	FMP407	FMP630	2.81%	11.59%	14.95%	70.66%
CP	12	505.68	FMP1	FMP117	FMP410	FMP631	3.44%	8.45%	13.99%	74.12%
CP	14	263.30	FMP1	FMP120	FMP413	FMP632	3.81%	16.61%	17.31%	62.27%
CP	16	214.41	FMP1	FMP122	FMP415	FMP633	4.42%	24.41%	8.23%	62.94%
CP	18	31.06	FMP1	FMP124	FMP417	FMP634	2.18%	22.82%	21.17%	53.83%
CP	20	21.33	FMP1	FMP125	FMP419	FMP635	2.38%	40.67%	28.88%	28.07%
CP	22	0.27	FMP1	FMP126	FMP421	FMP636	2.38%	40.67%	28.88%	28.07%
LP	2	104.02	FMP1	FMP129	FMP424	FMP638	6.96%	27.58%	58.78%	6.68%
LP	4	284.55	FMP1	FMP132	FMP427	FMP639	9.04%	41.11%	47.26%	2.58%
LP	6	655.52	FMP1	FMP135	FMP430	FMP640	6.73%	53.74%	34.56%	4.97%
LP	8	795.64	FMP1	FMP138	FMP433	FMP641	9.31%	52.82%	29.70%	8.17%
LP	10	373.04	FMP1	FMP141	FMP436	FMP642	7.41%	52.35%	29.20%	11.04%
LP	12	147.38	FMP1	FMP144	FMP439	FMP643	9.28%	62.44%	24.27%	4.00%
LP	14	55.02	FMP1	FMP147	FMP442	FMP644	7.06%	61.78%	21.82%	9.34%

CARBINE tree species code	Yield class	Total area of stratum (ha)	Allocated FMPs by index number				Percentage allocation of FMPs to stratum area			
			No harvesting	No thinning, with clearcutting	Thinning, with clearcutting	Continuous cover	No harvesting	No thinning, with clearcutting	Thinning, with clearcutting	Continuous cover
LP	16	8.92	FMP1	FMP149	FMP445	FMP645	52.09%	0.22%	33.39%	14.29%
LP	20	3.53	FMP1	-	-	FMP647	1.96%	0.00%	0.00%	98.04%
EL	2	1.89	FMP1	-	FMP451	FMP648	1.96%	0.00%	71.36%	26.67%
EL	4	13.07	FMP1	FMP153	FMP454	FMP649	4.27%	39.07%	0.00%	56.66%
EL	6	30.26	FMP1	FMP156	FMP457	FMP650	22.87%	8.70%	10.23%	58.21%
EL	8	65.70	FMP1	FMP159	FMP460	FMP651	4.03%	8.61%	16.41%	70.95%
EL	10	33.94	FMP1	FMP162	FMP463	FMP652	9.54%	7.84%	3.28%	79.33%
EL	12	30.46	FMP1	FMP165	FMP466	FMP653	2.65%	4.49%	18.19%	74.67%
EL	14	2.61	FMP1	-	FMP469	FMP654	1.96%	0.00%	13.34%	84.70%
EL	16	1.95	FMP1	-	FMP471	FMP655	1.96%	0.00%	19.20%	78.84%
JL	2	23.83	FMP1	FMP171	FMP475	FMP657	10.03%	55.34%	23.03%	11.61%
JL	4	76.74	FMP1	FMP174	FMP478	FMP658	15.96%	49.92%	17.69%	16.43%
JL	6	218.34	FMP1	FMP177	FMP481	FMP659	7.00%	32.28%	28.67%	32.05%
JL	8	924.85	FMP1	FMP180	FMP484	FMP660	5.77%	24.07%	27.54%	42.62%
JL	10	2 841.96	FMP1	FMP183	FMP487	FMP661	5.21%	16.77%	27.68%	50.33%
JL	12	2 980.25	FMP1	FMP186	FMP490	FMP662	5.20%	18.89%	23.47%	52.44%
JL	14	2 605.95	FMP1	FMP189	FMP493	FMP663	4.56%	18.26%	19.84%	57.33%
JL	16	180.63	FMP1	FMP192	FMP496	FMP664	2.99%	6.05%	44.32%	46.64%
JL	24	0.21	FMP1	-	FMP499	FMP667	1.96%	0.00%	43.05%	54.98%
DF	2	3.18	FMP1	FMP196	FMP502	FMP668	1.98%	7.97%	4.26%	85.79%
DF	4	1.61	FMP1	-	FMP505	FMP669	1.96%	0.00%	4.64%	93.40%
DF	6	6.59	FMP1	-	FMP507	FMP670	1.96%	0.00%	44.48%	53.56%

CARBINE tree species code	Yield class	Total area of stratum (ha)	Allocated FMPs by index number				Percentage allocation of FMPs to stratum area			
			No harvesting	No thinning, with clearcutting	Thinning, with clearcutting	Continuous cover	No harvesting	No thinning, with clearcutting	Thinning, with clearcutting	Continuous cover
DF	8	34.44	FMP1	FMP200	FMP510	FMP671	19.07%	0.65%	36.42%	43.86%
DF	10	219.71	FMP1	FMP203	FMP513	FMP672	6.88%	14.80%	29.12%	49.19%
DF	12	1 004.71	FMP1	FMP206	FMP516	FMP673	3.52%	9.91%	17.64%	68.93%
DF	14	1 036.89	FMP1	FMP209	FMP519	FMP674	6.33%	10.01%	17.34%	66.32%
DF	16	1 592.31	FMP1	FMP212	FMP522	FMP675	4.31%	9.68%	25.23%	60.78%
DF	18	818.95	FMP1	FMP215	FMP525	FMP676	3.04%	8.73%	26.74%	61.49%
DF	20	368.92	FMP1	FMP218	FMP528	FMP677	2.89%	9.16%	13.44%	74.52%
DF	22	242.93	FMP1	FMP221	FMP531	FMP678	2.91%	8.45%	47.44%	41.20%
DF	24	259.46	FMP1	FMP224	FMP534	FMP679	2.26%	3.04%	13.44%	81.26%
GF	2	4.72	FMP1	FMP226	FMP536	FMP681	1.96%	58.82%	22.11%	17.10%
GF	4	3.93	FMP1	FMP227	FMP537	FMP682	93.22%	4.75%	1.14%	0.88%
GF	10	7.16	FMP1	-	FMP540	FMP685	1.96%	0.00%	96.82%	1.22%
GF	12	17.70	FMP1	FMP231	FMP541	FMP686	8.45%	4.97%	33.05%	53.52%
GF	14	28.43	FMP1	FMP233	FMP542	FMP687	4.46%	9.83%	20.55%	65.17%
GF	16	80.79	FMP1	FMP235	FMP543	FMP688	2.12%	4.92%	48.33%	44.62%
GF	18	35.04	FMP1	FMP237	FMP544	FMP689	7.33%	25.81%	31.25%	35.61%
GF	20	88.38	FMP1	FMP239	FMP545	FMP690	4.87%	9.68%	32.56%	52.89%
GF	22	29.99	FMP1	FMP241	FMP546	FMP691	2.07%	18.33%	52.05%	27.55%
GF	24	45.34	FMP1	FMP243	FMP547	FMP692	2.41%	10.22%	44.87%	42.50%
GF	26	29.40	FMP1	FMP245	FMP548	FMP693	2.30%	6.85%	57.08%	33.76%
GF	28	30.86	FMP1	FMP247	FMP549	FMP694	2.17%	4.98%	64.98%	27.87%
GF	30	18.04	FMP1	FMP248	FMP550	FMP695	3.07%	9.15%	13.89%	73.88%

CARBINE tree species code	Yield class	Total area of stratum (ha)	Allocated FMPs by index number				Percentage allocation of FMPs to stratum area			
			No harvesting	No thinning, with clearcutting	Thinning, with clearcutting	Continuous cover	No harvesting	No thinning, with clearcutting	Thinning, with clearcutting	Continuous cover
NF	2	1.55	FMP1	-	FMP551	FMP696	10.64%	0.00%	35.52%	53.83%
NF	4	5.80	FMP1	FMP250	FMP552	FMP697	5.54%	59.54%	21.16%	13.77%
NF	6	19.73	FMP1	FMP251	FMP553	-	2.02%	57.79%	40.18%	0.00%
NF	8	6.18	FMP1	FMP252	FMP554	FMP699	1.96%	25.89%	69.37%	2.77%
NF	10	48.46	FMP1	FMP253	FMP555	-	21.23%	59.37%	19.41%	0.00%
NF	12	88.46	FMP1	FMP254	FMP556	FMP701	6.57%	33.75%	47.49%	12.19%
NF	14	81.49	FMP1	FMP255	FMP557	FMP702	5.86%	36.41%	8.69%	49.04%
NF	16	78.62	FMP1	FMP256	FMP558	FMP703	3.77%	28.17%	46.67%	21.39%
NF	18	34.20	FMP1	FMP257	FMP559	FMP704	2.81%	18.41%	27.22%	51.56%
NF	20	23.31	FMP1	FMP258	FMP560	FMP705	2.51%	12.48%	32.17%	52.83%
NF	22	32.39	FMP1	FMP259	FMP561	FMP706	3.97%	14.33%	76.17%	5.53%
NF	24	0.71	FMP1	FMP260	FMP562	FMP707	2.13%	16.18%	76.17%	5.53%
WH	2	5.26	FMP1	FMP263	FMP563	FMP708	30.35%	64.66%	3.85%	1.14%
WH	4	1.91	FMP1	-	FMP564	-	1.96%	0.00%	98.04%	0.00%
WH	6	6.61	FMP1	FMP265	FMP565	FMP710	2.71%	66.65%	28.82%	1.81%
WH	8	4.06	FMP1	FMP266	-	FMP711	12.46%	31.52%	0.00%	56.02%
WH	10	12.44	FMP1	FMP267	FMP567	FMP712	3.77%	8.93%	86.60%	0.70%
WH	12	50.68	FMP1	FMP268	FMP568	FMP713	13.41%	36.43%	37.76%	12.40%
WH	14	100.10	FMP1	FMP269	FMP569	FMP714	3.05%	25.72%	47.62%	23.60%
WH	16	141.55	FMP1	FMP270	FMP570	FMP715	3.49%	27.37%	41.02%	28.12%
WH	18	166.79	FMP1	FMP271	FMP571	FMP716	3.55%	22.39%	58.65%	15.42%
WH	20	109.76	FMP1	FMP272	FMP572	FMP717	2.37%	22.32%	47.73%	27.58%

CARBINE tree species code	Yield class	Total area of stratum (ha)	Allocated FMPs by index number				Percentage allocation of FMPs to stratum area			
			No harvesting	No thinning, with clearcutting	Thinning, with clearcutting	Continuous cover	No harvesting	No thinning, with clearcutting	Thinning, with clearcutting	Continuous cover
WH	22	73.80	FMP1	FMP273	FMP573	FMP718	5.00%	28.72%	41.92%	24.36%
WH	24	82.36	FMP1	FMP274	FMP574	FMP719	2.20%	21.31%	63.03%	13.46%
WH	26	0.21	FMP1	-	FMP575	FMP720	1.96%	0.00%	94.81%	3.23%
RC	2	12.18	FMP1	FMP276	FMP576	FMP721	1.96%	39.46%	58.03%	0.55%
RC	4	2.46	FMP1	-	FMP577	FMP722	1.96%	0.00%	32.45%	65.58%
RC	6	12.51	FMP1	-	FMP578	FMP723	1.96%	0.00%	32.45%	65.58%
RC	8	10.13	FMP1	FMP279	FMP579	FMP724	2.58%	17.25%	26.54%	53.63%
RC	10	60.05	FMP1	FMP280	FMP580	FMP725	2.13%	31.95%	45.41%	20.51%
RC	12	75.86	FMP1	FMP281	FMP581	FMP726	13.92%	23.46%	32.60%	30.02%
RC	14	60.13	FMP1	FMP282	FMP582	FMP727	5.75%	39.20%	30.31%	24.74%
RC	16	81.04	FMP1	FMP283	FMP583	FMP728	4.76%	22.60%	37.42%	35.22%
RC	18	44.22	FMP1	FMP284	FMP584	FMP729	7.56%	17.13%	25.90%	49.41%
RC	20	32.96	FMP1	FMP285	FMP585	FMP730	2.42%	15.34%	42.84%	39.40%
RC	22	17.95	FMP1	FMP286	FMP586	FMP731	5.71%	19.27%	10.52%	64.50%
RC	24	7.99	FMP1	FMP288	FMP587	FMP732	2.91%	28.47%	9.62%	59.00%
OK	2	433.40	FMP1	-	-	FMP733	67.36%	0%	0%	32.64%
OK	4	898.20	FMP1	-	-	FMP734	60.22%	0%	0%	39.78%
OK	6	739.08	FMP1	-	-	FMP735	58.97%	0%	0%	41.03%
OK	8	383.23	FMP1	-	-	FMP736	63.87%	0%	0%	36.13%
OK	10	81.12	FMP1	-	-	FMP737	56.04%	0%	0%	43.96%
OK	12	5.63	FMP1	-	-	FMP738	80.83%	0%	0%	19.17%
OK	14	4.46	FMP1	-	-	FMP739	80.83%	0%	0%	19.17%

CARBINE tree species code	Yield class	Total area of stratum (ha)	Allocated FMPs by index number				Percentage allocation of FMPs to stratum area			
			No harvesting	No thinning, with clearcutting	Thinning, with clearcutting	Continuous cover	No harvesting	No thinning, with clearcutting	Thinning, with clearcutting	Continuous cover
OK	16	0.28	FMP1	-	-	FMP740	80.83%	0%	0%	19.17%
OK	20	0.63	FMP1	-	-	FMP741	80.83%	0%	0%	19.17%
AH	2	46.69	FMP1	-	-	FMP742	61.38%	0%	0%	38.62%
AH	4	164.06	FMP1	-	-	FMP743	60.56%	0%	0%	39.44%
AH	6	100.68	FMP1	-	-	FMP744	64.83%	0%	0%	35.17%
AH	8	71.68	FMP1	-	-	FMP745	63.29%	0%	0%	36.71%
AH	10	24.57	FMP1	-	-	FMP746	61.77%	0%	0%	38.23%
AH	12	4.49	FMP1	-	-	FMP747	65.07%	0%	0%	34.93%
AH	14	0.11	FMP1	-	-	FMP748	62.00%	0%	0%	38.00%
AH	18	2.87	FMP1	-	-	FMP750	68.69%	0%	0%	31.31%
AH	20	2.01	FMP1	-	-	FMP751	56.04%	0%	0%	43.96%
BE	2	105.86	FMP1	-	-	FMP752	61.92%	0%	0%	38.08%
BE	4	264.90	FMP1	-	-	FMP753	61.56%	0%	0%	38.44%
BE	6	510.31	FMP1	-	-	FMP754	65.32%	0%	0%	34.68%
BE	8	529.97	FMP1	-	-	FMP755	61.80%	0%	0%	38.20%
BE	10	64.37	FMP1	-	-	FMP756	61.46%	0%	0%	38.54%
BE	12	0.45	FMP1	-	-	FMP757	56.04%	0%	0%	43.96%
BE	16	0.87	FMP1	-	-	FMP759	56.04%	0%	0%	43.96%
BI	2	685.34	FMP1	-	-	FMP761	61.38%	0%	0%	38.62%
BI	4	684.16	FMP1	-	-	FMP762	60.56%	0%	0%	39.44%
BI	6	214.18	FMP1	-	-	FMP763	64.83%	0%	0%	35.17%
BI	8	150.44	FMP1	-	-	FMP764	63.29%	0%	0%	36.71%

CARBINE tree species code	Yield class	Total area of stratum (ha)	Allocated FMPs by index number				Percentage allocation of FMPs to stratum area			
			No harvesting	No thinning, with clearcutting	Thinning, with clearcutting	Continuous cover	No harvesting	No thinning, with clearcutting	Thinning, with clearcutting	Continuous cover
BI	10	7.69	FMP1	-	-	FMP765	61.77%	0%	0%	38.23%
BI	12	16.85	FMP1	-	-	FMP766	65.07%	0%	0%	34.93%
BI	14	0.55	FMP1	-	-	FMP767	62.00%	0%	0%	38.00%
BI	16	3.89	FMP1	-	-	FMP768	84.30%	0%	0%	15.70%
BI	18	2.56	FMP1	-	-	FMP769	68.69%	0%	0%	31.31%
BI	20	0.82	FMP1	-	-	FMP770	56.04%	0%	0%	43.96%
SY	2	2 258.57	FMP1	-	-	FMP772	61.38%	0%	0%	38.62%
SY	4	2 948.63	FMP1	-	-	FMP773	60.56%	0%	0%	39.44%
SY	6	680.92	FMP1	-	-	FMP774	64.83%	0%	0%	35.17%
SY	8	857.25	FMP1	-	-	FMP775	63.29%	0%	0%	36.71%
SY	10	372.88	FMP1	-	-	FMP776	61.77%	0%	0%	38.23%
SY	12	118.58	FMP1	-	-	FMP777	65.07%	0%	0%	34.93%
SY	14	28.35	FMP1	-	-	FMP778	62.00%	0%	0%	38.00%
SY	16	1.97	FMP1	-	-	FMP779	84.30%	0%	0%	15.70%
SY	18	7.67	FMP1	-	-	FMP780	68.69%	0%	0%	31.31%
SY	20	0.10	FMP1	-	-	FMP781	56.04%	0%	0%	43.96%
SY	24	0.57	FMP1	-	-	FMP783	56.04%	0%	0%	43.96%
PO	2	4.00	FMP1	-	-	FMP784	61.38%	0%	0%	38.62%
PO	4	20.33	FMP1	-	-	FMP785	60.56%	0%	0%	39.44%
PO	6	8.30	FMP1	-	-	FMP786	64.83%	0%	0%	35.17%
PO	8	4.37	FMP1	-	-	FMP787	63.29%	0%	0%	36.71%
PO	10	8.59	FMP1	-	-	FMP788	61.77%	0%	0%	38.23%

CARBINE tree species code	Yield class	Total area of stratum (ha)	Allocated FMPs by index number				Percentage allocation of FMPs to stratum area			
			No harvesting	No thinning, with clearcutting	Thinning, with clearcutting	Continuous cover	No harvesting	No thinning, with clearcutting	Thinning, with clearcutting	Continuous cover
PO	12	0.96	FMP1	-	-	FMP789	65.07%	0%	0%	34.93%
PO	14	0.24	FMP1	-	-	FMP790	62.00%	0%	0%	38.00%
NO	4	1.99	FMP1	-	-	FMP794	60.56%	0%	0%	39.44%
NO	6	7.26	FMP1	-	-	FMP795	64.83%	0%	0%	35.17%
NO	8	7.08	FMP1	-	-	FMP796	63.29%	0%	0%	36.71%
NO	10	9.43	FMP1	-	-	FMP797	61.77%	0%	0%	38.23%
NO	12	5.11	FMP1	-	-	FMP798	65.07%	0%	0%	34.93%
NO	14	3.97	FMP1	-	-	FMP799	62.00%	0%	0%	38.00%
NO	16	1.18	FMP1	-	-	FMP800	84.30%	0%	0%	15.70%
NO	18	2.96	FMP1	-	-	FMP801	68.69%	0%	0%	31.31%

Wales, Private sector

CARBINE tree species code	Yield class	Total area of stratum (ha)	Allocated FMPs by index number				Percentage allocation of FMPs to stratum area			
			No harvesting	No thinning, with clearcutting	Thinning, with clearcutting	Continuous cover	No harvesting	No thinning, with clearcutting	Thinning, with clearcutting	Continuous cover
NS	4	80.05	FMP1	FMP802	FMP1102	-	27.43%	7.26%	65.31%	0%
NS	6	108.24	FMP1	FMP805	FMP1105	-	66.49%	3.35%	30.16%	0%
NS	8	291.97	FMP1	FMP808	FMP1108	-	44.57%	5.54%	49.89%	0%
NS	10	231.44	FMP1	-	FMP1111	-	34.33%	0%	65.67%	0%

CARBINE tree species code	Yield class	Total area of stratum (ha)	Allocated FMPs by index number				Percentage allocation of FMPs to stratum area			
			No harvesting	No thinning, with clearcutting	Thinning, with clearcutting	Continuous cover	No harvesting	No thinning, with clearcutting	Thinning, with clearcutting	Continuous cover
NS	12	403.52	FMP1	-	FMP1114	-	48.90%	0%	51.10%	0%
NS	14	564.04	FMP1	-	FMP1117	-	30.25%	0%	69.75%	0%
NS	16	160.35	FMP1	-	FMP1120	-	27.43%	0%	72.57%	0%
NS	18	119.82	FMP1	-	FMP1123	-	27.43%	0%	72.57%	0%
NS	20	115.68	FMP1	-	FMP1125	-	27.55%	0%	72.45%	0%
NS	22	690.81	FMP1	-	FMP1126	-	27.43%	0%	72.57%	0%
NS	24	19.37	FMP1	-	FMP1127	-	27.94%	0%	72.06%	0%
SS	6	2 556.44	FMP1	FMP825	-	-	37.69%	62.31%	0.00%	0%
SS	8	2 032.35	FMP1	FMP828	-	-	28.85%	71.15%	0.00%	0%
SS	10	3 023.12	FMP1	FMP830	-	-	33.24%	66.76%	0.00%	0%
SS	12	3 622.04	FMP1	FMP833	FMP1136	-	27.44%	50.79%	21.77%	0%
SS	14	3 635.53	FMP1	FMP836	FMP1139	-	30.59%	46.50%	22.90%	0%
SS	16	2 724.69	FMP1	FMP839	FMP1142	-	27.56%	36.22%	36.22%	0%
SS	18	1 979.39	FMP1	FMP842	FMP1145	-	27.44%	29.03%	43.54%	0%
SS	20	3 437.27	FMP1	FMP845	FMP1148	-	27.44%	21.77%	50.80%	0%
SS	22	1 636.60	FMP1	FMP848	FMP1151	-	27.44%	21.77%	50.79%	0%
SS	24	2 994.86	FMP1	FMP850	FMP1154	-	27.44%	21.77%	50.80%	0%
SS	26	4.95	FMP1	FMP852	FMP1157	-	27.43%	21.77%	50.80%	0%
SP	4	6 551.46	FMP1	FMP858	FMP1163	-	99.25%	0.11%	0.63%	0%
SP	6	156.69	FMP1	FMP861	FMP1166	-	66.03%	5.10%	28.88%	0%
SP	8	498.27	FMP1	FMP864	FMP1169	-	46.20%	8.07%	45.73%	0%
SP	10	196.23	FMP1	FMP867	FMP1172	-	34.49%	9.83%	55.68%	0%

CARBINE tree species code	Yield class	Total area of stratum (ha)	Allocated FMPs by index number				Percentage allocation of FMPs to stratum area			
			No harvesting	No thinning, with clearcutting	Thinning, with clearcutting	Continuous cover	No harvesting	No thinning, with clearcutting	Thinning, with clearcutting	Continuous cover
SP	12	98.42	FMP1	FMP870	FMP1175	-	49.39%	7.59%	43.02%	0%
SP	14	64.13	FMP1	FMP873	FMP1178	-	30.30%	10.46%	59.25%	0%
SP	16	6.18	FMP1	FMP874	FMP1179	-	73.06%	4.04%	22.90%	0%
SP	20	0.27	FMP1	FMP875	FMP1180	-	79.03%	3.15%	17.83%	0%
CP	4	13.29	FMP1	-	FMP1182	-	27.43%	0%	72.57%	0%
CP	6	66.79	FMP1	-	FMP1185	-	66.91%	0%	33.09%	0%
CP	8	161.90	FMP1	-	FMP1188	-	44.30%	0%	55.70%	0%
CP	10	110.19	FMP1	-	FMP1191	-	34.34%	0%	65.66%	0%
CP	12	173.30	FMP1	-	FMP1194	-	52.63%	0%	47.37%	0%
CP	14	152.93	FMP1	-	FMP1197	-	30.17%	0%	69.83%	0%
CP	16	44.29	FMP1	-	FMP1199	-	27.43%	0%	72.57%	0%
CP	18	7.14	FMP1	-	FMP1201	-	27.43%	0%	72.57%	0%
CP	20	9.10	FMP1	-	FMP1203	-	27.57%	0%	72.43%	0%
CP	22	0.88	FMP1	-	FMP1204	-	27.43%	0%	72.57%	0%
LP	4	377.08	FMP1	FMP884	FMP1207	-	27.43%	58.05%	14.51%	0%
LP	6	500.86	FMP1	FMP887	FMP1210	-	70.58%	23.53%	5.88%	0%
LP	8	732.25	FMP1	FMP890	FMP1213	-	51.41%	38.87%	9.72%	0%
LP	10	94.77	FMP1	FMP893	FMP1216	-	46.82%	42.55%	10.64%	0%
LP	12	43.24	FMP1	FMP896	FMP1219	-	55.92%	35.26%	8.82%	0%
LP	14	28.89	FMP1	FMP898	FMP1221	-	32.32%	54.14%	13.54%	0%
LP	16	1.68	FMP1	FMP900	FMP1223	-	27.43%	58.05%	14.51%	0%
LP	20	1.37	FMP1	FMP903	FMP1226	-	27.56%	57.95%	14.49%	0%

CARBINE tree species code	Yield class	Total area of stratum (ha)	Allocated FMPs by index number				Percentage allocation of FMPs to stratum area			
			No harvesting	No thinning, with clearcutting	Thinning, with clearcutting	Continuous cover	No harvesting	No thinning, with clearcutting	Thinning, with clearcutting	Continuous cover
EL	4	64.81	FMP1	FMP908	FMP1231	-	27.43%	14.51%	58.05%	0%
EL	6	142.42	FMP1	FMP911	FMP1234	-	32.51%	13.50%	53.99%	0%
EL	8	50.95	FMP1	FMP914	FMP1237	-	27.43%	14.51%	58.05%	0%
EL	10	12.80	FMP1	FMP917	FMP1240	-	27.43%	14.51%	58.05%	0%
EL	12	12.37	FMP1	FMP920	FMP1243	-	35.71%	12.86%	51.43%	0%
EL	14	2.97	FMP1	FMP923	FMP1246	-	38.26%	12.35%	49.39%	0%
JL	4	377.55	FMP1	FMP928	FMP1251	-	35.59%	12.88%	51.53%	0%
JL	6	1 063.57	FMP1	FMP931	FMP1254	-	49.53%	10.09%	40.37%	0%
JL	8	779.37	FMP1	FMP934	FMP1257	-	31.72%	13.66%	54.62%	0%
JL	10	1 017.45	FMP1	FMP937	FMP1260	-	43.27%	11.35%	45.38%	0%
JL	12	1 157.76	FMP1	FMP940	FMP1263	-	35.10%	12.98%	51.92%	0%
JL	14	2 865.73	FMP1	FMP943	FMP1266	-	36.80%	12.64%	50.56%	0%
DF	4	2.23	FMP1	FMP944	FMP1267	-	27.43%	14.51%	58.05%	0%
DF	6	3.41	FMP1	FMP946	FMP1269	-	63.45%	7.31%	29.24%	0%
DF	8	23.60	FMP1	FMP949	FMP1272	-	41.64%	11.67%	46.68%	0%
DF	10	44.04	FMP1	FMP952	FMP1275	-	34.89%	13.02%	52.09%	0%
DF	12	230.91	FMP1	FMP955	FMP1278	-	50.21%	9.96%	39.83%	0%
DF	14	479.15	FMP1	FMP958	FMP1281	-	30.33%	13.93%	55.73%	0%
DF	16	246.29	FMP1	FMP961	FMP1284	-	27.43%	14.51%	58.05%	0%
DF	18	167.11	FMP1	-	FMP1287	-	27.43%	0.00%	72.57%	0%
DF	20	147.93	FMP1	-	FMP1290	-	38.70%	0.00%	61.30%	0%
DF	22	750.88	FMP1	-	FMP1293	-	27.43%	0.00%	72.57%	0%

CARBINE tree species code	Yield class	Total area of stratum (ha)	Allocated FMPs by index number				Percentage allocation of FMPs to stratum area			
			No harvesting	No thinning, with clearcutting	Thinning, with clearcutting	Continuous cover	No harvesting	No thinning, with clearcutting	Thinning, with clearcutting	Continuous cover
DF	24	764.13	FMP1	-	FMP1296	-	27.64%	0.00%	72.36%	0%
GF	4	5.08	FMP1	FMP972	FMP1299	-	27.43%	21.77%	50.80%	0%
GF	10	1.81	FMP1	FMP978	FMP1305	-	35.29%	19.41%	45.30%	0%
GF	12	4.39	FMP1	FMP981	FMP1308	-	59.21%	12.24%	28.55%	0%
GF	14	13.82	FMP1	FMP983	FMP1311	-	30.67%	20.80%	48.53%	0%
GF	16	12.81	FMP1	FMP986	FMP1314	-	27.43%	21.77%	50.80%	0%
GF	18	5.88	FMP1	FMP989	FMP1317	-	27.43%	21.77%	50.80%	0%
GF	20	32.78	FMP1	FMP992	FMP1320	-	27.49%	21.75%	50.76%	0%
GF	22	86.92	FMP1	FMP995	FMP1323	-	27.43%	21.77%	50.80%	0%
GF	24	124.58	FMP1	FMP998	FMP1326	-	27.65%	21.70%	50.64%	0%
GF	26	80.76	FMP1	FMP1001	FMP1329	-	27.65%	21.70%	50.64%	0%
GF	28	84.78	FMP1	FMP1004	FMP1332	-	27.65%	21.70%	50.64%	0%
GF	30	49.58	FMP1	FMP1007	FMP1335	-	27.66%	21.70%	50.64%	0%
NF	4	7.62	FMP1	FMP1008	FMP1336	-	27.43%	21.77%	50.80%	0%
NF	6	15.70	FMP1	FMP1010	FMP1338	-	71.50%	8.55%	19.95%	0%
NF	8	5.77	FMP1	FMP1013	FMP1341	-	45.73%	16.28%	37.99%	0%
NF	10	8.92	FMP1	FMP1016	FMP1344	-	51.69%	14.49%	33.81%	0%
NF	12	18.71	FMP1	FMP1019	FMP1347	-	55.98%	13.20%	30.81%	0%
NF	14	38.88	FMP1	FMP1021	FMP1350	-	30.36%	20.89%	48.75%	0%
NF	16	12.00	FMP1	FMP1024	FMP1353	-	27.43%	21.77%	50.80%	0%
NF	18	7.39	FMP1	FMP1027	FMP1356	-	27.43%	21.77%	50.80%	0%
NF	20	9.35	FMP1	FMP1030	FMP1359	-	27.52%	21.74%	50.74%	0%

CARBINE tree species code	Yield class	Total area of stratum (ha)	Allocated FMPs by index number				Percentage allocation of FMPs to stratum area			
			No harvesting	No thinning, with clearcutting	Thinning, with clearcutting	Continuous cover	No harvesting	No thinning, with clearcutting	Thinning, with clearcutting	Continuous cover
NF	22	99.92	FMP1	FMP1033	FMP1362	-	27.43%	21.77%	50.80%	0%
NF	24	2.08	FMP1	FMP1035	FMP1364	-	27.64%	21.71%	50.65%	0%
WH	4	2.52	FMP1	FMP1039	FMP1368	-	64.83%	10.55%	24.62%	0%
WH	6	4.40	FMP1	FMP1042	FMP1371	-	84.19%	4.74%	11.07%	0%
WH	8	3.39	FMP1	FMP1045	FMP1374	-	31.85%	20.44%	47.70%	0%
WH	10	3.20	FMP1	FMP1048	FMP1377	-	43.76%	16.87%	39.37%	0%
WH	12	15.13	FMP1	FMP1051	FMP1380	-	54.06%	13.78%	32.16%	0%
WH	14	47.56	FMP1	FMP1053	FMP1383	-	30.44%	20.87%	48.69%	0%
WH	16	25.96	FMP1	FMP1036	FMP1386	-	27.43%	21.77%	50.80%	0%
WH	18	34.48	FMP1	FMP1059	FMP1389	-	27.43%	21.77%	50.80%	0%
WH	20	42.16	FMP1	FMP1062	FMP1392	-	27.57%	21.73%	50.70%	0%
WH	22	218.02	FMP1	FMP1065	FMP1395	-	27.43%	21.77%	50.80%	0%
WH	24	230.67	FMP1	FMP1068	FMP198	-	27.65%	21.71%	50.65%	0%
WH	26	0.58	FMP1	FMP1070	FMP1400	-	27.65%	21.71%	50.65%	0%
RC	4	3.35	FMP1	FMP1072	FMP1402	-	27.43%	21.77%	50.80%	0%
RC	6	4.27	FMP1	FMP1075	FMP1405	-	65.44%	10.37%	24.19%	0%
RC	8	6.97	FMP1	FMP1078	FMP1408	-	41.98%	17.41%	40.61%	0%
RC	10	7.69	FMP1	FMP1081	FMP1411	-	34.46%	19.66%	45.88%	0%
RC	12	19.05	FMP1	FMP1084	FMP1414	-	48.43%	15.47%	36.10%	0%
RC	14	30.71	FMP1	FMP1086	FMP1417	-	30.40%	20.88%	48.72%	0%
RC	16	12.67	FMP1	FMP1089	FMP1420	-	27.43%	21.77%	50.80%	0%
RC	18	8.24	FMP1	FMP1092	FMP1423	-	27.43%	21.77%	50.80%	0%

CARBINE tree species code	Yield class	Total area of stratum (ha)	Allocated FMPs by index number				Percentage allocation of FMPs to stratum area			
			No harvesting	No thinning, with clearcutting	Thinning, with clearcutting	Continuous cover	No harvesting	No thinning, with clearcutting	Thinning, with clearcutting	Continuous cover
RC	20	13.09	FMP1	FMP1095	FMP1426	-	27.56%	21.73%	50.71%	0%
RC	22	54.84	FMP1	FMP1098	FMP1429	-	27.43%	21.77%	50.80%	0%
RC	24	23.13	FMP1	FMP1101	FMP1432	-	27.64%	21.71%	50.65%	0%
OK	2	7 725.51	FMP1	-	FMP1433	-	94.18%	0%	5.82%	0%
OK	4	6 809.22	FMP1	-	FMP1434	-	94.18%	0%	5.82%	0%
OK	6	3 915.47	FMP1	-	FMP1435	-	94.18%	0%	5.82%	0%
OK	8	3 948.47	FMP1	-	FMP1436	-	94.18%	0%	5.82%	0%
AH	2	3 134.62	FMP1	-	FMP1437	-	94.18%	0%	5.82%	0%
AH	4	3 066.42	FMP1	-	FMP1438	-	94.18%	0%	5.82%	0%
AH	6	4 030.93	FMP1	-	FMP1439	-	94.18%	0%	5.82%	0%
AH	8	1 889.59	FMP1	-	FMP1440	-	94.18%	0%	5.82%	0%
AH	10	1 405.14	FMP1	-	FMP1441	-	94.18%	0%	5.82%	0%
AH	12	3 660.59	FMP1	-	FMP1442	-	94.18%	0%	5.82%	0%
BE	2	23 664.19	FMP1	-	FMP1443	-	94.18%	0%	5.82%	0%
BE	4	8 409.55	FMP1	-	FMP1444	-	94.18%	0%	5.82%	0%
BE	6	6 153.29	FMP1	-	FMP1445	-	94.18%	0%	5.82%	0%
BE	8	4 924.78	FMP1	-	FMP1446	-	94.18%	0%	5.82%	0%
BE	10	1 623.53	FMP1	-	FMP1447	-	94.18%	0%	5.82%	0%
BE	12	34.19	FMP1	-	FMP1448	-	94.18%	0%	5.82%	0%
BI	2	2 175.24	FMP1	-	FMP1449	-	94.18%	0%	5.82%	0%
BI	4	1 273.41	FMP1	-	FMP1450	-	94.18%	0%	5.82%	0%
BI	6	1 299.99	FMP1	-	FMP1451	-	94.18%	0%	5.82%	0%

CARBINE tree species code	Yield class	Total area of stratum (ha)	Allocated FMPs by index number				Percentage allocation of FMPs to stratum area			
			No harvesting	No thinning, with clearcutting	Thinning, with clearcutting	Continuous cover	No harvesting	No thinning, with clearcutting	Thinning, with clearcutting	Continuous cover
BI	8	443.56	FMP1	-	FMP1452	-	94.18%	0%	5.82%	0%
BI	10	38.40	FMP1	-	FMP1453	-	94.18%	0%	5.82%	0%
BI	12	227.92	FMP1	-	FMP1454	-	94.18%	0%	5.82%	0%
SY	2	50 497.82	FMP1	-	FMP1455	-	99.21%	0%	0.79%	0%
SY	4	5 276.11	FMP1	-	FMP1456	-	94.18%	0%	5.82%	0%
SY	6	3 973.05	FMP1	-	FMP1457	-	94.18%	0%	5.82%	0%
SY	8	2 429.78	FMP1	-	FMP1458	-	94.18%	0%	5.82%	0%
SY	10	1 789.82	FMP1	-	FMP1459	-	94.18%	0%	5.82%	0%
SY	12	1 541.91	FMP1	-	FMP1460	-	94.18%	0%	5.82%	0%
PO	2	826.72	FMP1	-	FMP1461	-	94.18%	0%	5.82%	0%
PO	4	597.17	FMP1	-	FMP1462	-	94.18%	0%	5.82%	0%
PO	6	92.59	FMP1	-	FMP1463	-	94.18%	0%	5.82%	0%
PO	8	37.53	FMP1	-	FMP1464	-	94.18%	0%	5.82%	0%
PO	10	200.33	FMP1	-	FMP1465	-	94.18%	0%	5.82%	0%
PO	12	67.30	FMP1	-	FMP1466	-	94.18%	0%	5.82%	0%

Northern Ireland, Public forest estate

CARBINE tree species code	Yield class	Total area of stratum (ha)	Allocated FMPs by index number				Percentage allocation of FMPs to stratum area			
			No harvesting	No thinning, with clearcutting	Thinning, with clearcutting	Continuous cover	No harvesting	No thinning, with clearcutting	Thinning, with clearcutting	Continuous cover
NS	6	2.48	FMP1	FMP1476	FMP1571	-	30.00%	48.92%	21.08%	0%
NS	8	2.18	FMP1	FMP1477	FMP1572	-	30.00%	48.92%	21.08%	0%
NS	10	6.00	FMP1	FMP1478	FMP1573	-	30.00%	48.92%	21.08%	0%
NS	12	93.43	FMP1	FMP1479	FMP1574	-	30.00%	48.92%	21.08%	0%
NS	14	234.96	FMP1	FMP1480	FMP1575	-	30.00%	48.92%	21.08%	0%
NS	16	1 344.49	FMP1	FMP1481	FMP1576	-	30.00%	48.92%	21.08%	0%
NS	18	235.62	FMP1	FMP1482	FMP1577	-	30.00%	48.92%	21.08%	0%
NS	20	373.96	FMP1	FMP1483	FMP1578	-	30.00%	48.92%	21.08%	0%
NS	22	4.26	FMP1	FMP1484	FMP1579	-	30.00%	48.92%	21.08%	0%
SS	6	20.01	FMP1	FMP1485	FMP1580	-	30.00%	48.92%	21.08%	0%
SS	8	43.54	FMP1	FMP1486	FMP1581	-	30.00%	48.92%	21.08%	0%
SS	10	275.92	FMP1	FMP1487	FMP1582	-	30.00%	48.92%	21.08%	0%
SS	12	4 159.47	FMP1	FMP1488	FMP1583	-	30.00%	48.92%	21.08%	0%
SS	14	6 511.78	FMP1	FMP1489	FMP1584	-	30.00%	48.92%	21.08%	0%
SS	16	17 546.77	FMP1	FMP1490	FMP1585	-	30.00%	48.92%	21.08%	0%
SS	18	5 356.56	FMP1	FMP1491	FMP1586	-	30.00%	48.92%	21.08%	0%
SS	20	2 095.45	FMP1	FMP1492	FMP1587	-	30.00%	48.92%	21.08%	0%
SS	22	87.54	FMP1	FMP1493	FMP1588	-	30.00%	48.92%	21.08%	0%
SP	4	12.49	FMP1	FMP1494	FMP1589	-	30.00%	48.92%	21.08%	0%

CARBINE tree species code	Yield class	Total area of stratum (ha)	Allocated FMPs by index number				Percentage allocation of FMPs to stratum area			
			No harvesting	No thinning, with clearcutting	Thinning, with clearcutting	Continuous cover	No harvesting	No thinning, with clearcutting	Thinning, with clearcutting	Continuous cover
SP	6	46.40	FMP1	FMP1495	FMP1590	-	30.00%	48.92%	21.08%	0%
SP	8	249.64	FMP1	FMP1496	FMP1591	-	30.00%	48.92%	21.08%	0%
SP	10	158.90	FMP1	FMP1497	FMP1592	-	30.00%	48.92%	21.08%	0%
SP	12	634.66	FMP1	FMP1498	FMP1593	-	30.00%	48.92%	21.08%	0%
SP	14	71.30	FMP1	FMP1499	FMP1594	-	30.00%	48.92%	21.08%	0%
CP	6	0.72	FMP1	FMP1500	FMP1595	-	30.00%	48.92%	21.08%	0%
CP	8	4.06	FMP1	FMP1501	FMP1596	-	30.00%	48.92%	21.08%	0%
CP	10	4.94	FMP1	FMP1502	FMP1597	-	30.00%	48.92%	21.08%	0%
CP	12	101.76	FMP1	FMP1503	FMP1598	-	30.00%	48.92%	21.08%	0%
CP	14	0.64	FMP1	FMP1504	FMP1599	-	30.00%	48.92%	21.08%	0%
CP	16	85.15	FMP1	FMP1505	FMP1600	-	30.00%	48.92%	21.08%	0%
CP	18	1.04	FMP1	FMP1506	FMP1601	-	30.00%	48.92%	21.08%	0%
LP	4	164.17	FMP1	FMP1507	FMP1602	-	30.00%	48.92%	21.08%	0%
LP	6	420.19	FMP1	FMP1508	FMP1603	-	30.00%	48.92%	21.08%	0%
LP	8	2 365.68	FMP1	FMP1509	FMP1604	-	30.00%	48.92%	21.08%	0%
LP	10	786.98	FMP1	FMP1510	FMP1605	-	30.00%	48.92%	21.08%	0%
LP	12	339.65	FMP1	FMP1511	FMP1606	-	30.00%	48.92%	21.08%	0%
LP	14	25.40	FMP1	FMP1512	FMP1607	-	30.00%	48.92%	21.08%	0%
EL	6	13.20	FMP1	FMP1513	FMP1608	-	30.00%	48.92%	21.08%	0%
EL	8	103.88	FMP1	FMP1514	FMP1609	-	30.00%	48.92%	21.08%	0%
EL	10	362.22	FMP1	FMP1515	FMP1610	-	30.00%	48.92%	21.08%	0%
EL	12	38.90	FMP1	FMP1516	FMP1611	-	30.00%	48.92%	21.08%	0%

CARBINE tree species code	Yield class	Total area of stratum (ha)	Allocated FMPs by index number				Percentage allocation of FMPs to stratum area			
			No harvesting	No thinning, with clearcutting	Thinning, with clearcutting	Continuous cover	No harvesting	No thinning, with clearcutting	Thinning, with clearcutting	Continuous cover
JL	4	2.34	FMP1	FMP1517	FMP1612	-	30.00%	48.92%	21.08%	0%
JL	6	27.62	FMP1	FMP1518	FMP1613	-	30.00%	48.92%	21.08%	0%
JL	8	172.65	FMP1	FMP1519	FMP1614	-	30.00%	48.92%	21.08%	0%
JL	10	475.51	FMP1	FMP1520	FMP1615	-	30.00%	48.92%	21.08%	0%
JL	12	982.70	FMP1	FMP1521	FMP1616	-	30.00%	48.92%	21.08%	0%
JL	14	318.13	FMP1	FMP1522	FMP1617	-	30.00%	48.92%	21.08%	0%
DF	12	1.24	FMP1	FMP1523	FMP1618	-	30.00%	48.92%	21.08%	0%
DF	14	1.17	FMP1	FMP1524	FMP1619	-	30.00%	48.92%	21.08%	0%
DF	16	25.44	FMP1	FMP1525	FMP1620	-	30.00%	48.92%	21.08%	0%
DF	18	354.05	FMP1	FMP1526	FMP1621	-	30.00%	48.92%	21.08%	0%
DF	20	32.26	FMP1	FMP1527	FMP1622	-	30.00%	48.92%	21.08%	0%
DF	22	39.61	FMP1	FMP1528	FMP1623	-	30.00%	48.92%	21.08%	0%
GF	14	3.12	FMP1	FMP1529	FMP1624	-	30.00%	48.92%	21.08%	0%
NF	10	0.55	FMP1	FMP1530	FMP1625	-	30.00%	48.92%	21.08%	0%
NF	12	15.36	FMP1	FMP1531	FMP1626	-	30.00%	48.92%	21.08%	0%
NF	14	93.71	FMP1	FMP1532	FMP1627	-	30.00%	48.92%	21.08%	0%
NF	16	232.90	FMP1	FMP1533	FMP1628	-	30.00%	48.92%	21.08%	0%
NF	18	16.40	FMP1	FMP1534	FMP1629	-	30.00%	48.92%	21.08%	0%
NF	20	3.33	FMP1	FMP1535	FMP1630	-	30.00%	48.92%	21.08%	0%
WH	12	55.20	FMP1	FMP1536	FMP1631	-	30.00%	48.92%	21.08%	0%
WH	14	14.83	FMP1	FMP1537	FMP1632	-	30.00%	48.92%	21.08%	0%
WH	16	11.38	FMP1	FMP1538	FMP1633	-	30.00%	48.92%	21.08%	0%

CARBINE tree species code	Yield class	Total area of stratum (ha)	Allocated FMPs by index number				Percentage allocation of FMPs to stratum area			
			No harvesting	No thinning, with clearcutting	Thinning, with clearcutting	Continuous cover	No harvesting	No thinning, with clearcutting	Thinning, with clearcutting	Continuous cover
WH	18	0.38	FMP1	FMP1539	FMP1634	-	30.00%	48.92%	21.08%	0%
RC	12	41.72	FMP1	FMP1540	FMP1635	-	30.00%	48.92%	21.08%	0%
RC	14	5.87	FMP1	FMP1541	FMP1636	-	30.00%	48.92%	21.08%	0%
RC	16	7.01	FMP1	FMP1542	FMP1637	-	30.00%	48.92%	21.08%	0%
RC	18	0.17	FMP1	FMP1543	FMP1638	-	30.00%	48.92%	21.08%	0%
OK	4	200.46	FMP1	FMP1544	FMP1639	-	90.00%	5.19%	4.81%	0%
OK	6	155.26	FMP1	FMP1545	FMP1640	-	90.00%	5.19%	4.81%	0%
OK	8	536.49	FMP1	FMP1546	FMP1641	-	90.00%	5.19%	4.81%	0%
AH	4	158.93	FMP1	FMP1547	FMP1642	-	90.00%	5.19%	4.81%	0%
AH	6	55.72	FMP1	FMP1548	FMP1643	-	90.00%	5.19%	4.81%	0%
AH	8	63.49	FMP1	FMP1549	FMP1644	-	90.00%	5.19%	4.81%	0%
AH	10	1.90	FMP1	FMP1550	FMP1645	-	90.00%	5.19%	4.81%	0%
AH	12	1.13	FMP1	FMP1551	FMP1646	-	90.00%	5.19%	4.81%	0%
BE	4	10.35	FMP1	FMP1552	FMP1647	-	90.00%	5.19%	4.81%	0%
BE	6	20.05	FMP1	FMP1553	FMP1648	-	90.00%	5.19%	4.81%	0%
BE	8	107.32	FMP1	FMP1554	FMP1649	-	90.00%	5.19%	4.81%	0%
BE	10	46.15	FMP1	FMP1555	FMP1650	-	90.00%	5.19%	4.81%	0%
BI	4	160.20	FMP1	FMP1556	FMP1651	-	90.00%	5.19%	4.81%	0%
BI	6	42.96	FMP1	FMP1557	FMP1652	-	90.00%	5.19%	4.81%	0%
BI	8	54.10	FMP1	FMP1558	FMP1653	-	90.00%	5.19%	4.81%	0%
BI	10	0.41	FMP1	FMP1559	FMP1654	-	90.00%	5.19%	4.81%	0%
SY	4	130.85	FMP1	FMP1560	FMP1655	-	90.00%	5.19%	4.81%	0%

CARBINE tree species code	Yield class	Total area of stratum (ha)	Allocated FMPs by index number				Percentage allocation of FMPs to stratum area			
			No harvesting	No thinning, with clearcutting	Thinning, with clearcutting	Continuous cover	No harvesting	No thinning, with clearcutting	Thinning, with clearcutting	Continuous cover
SY	6	64.87	FMP1	FMP1561	FMP1656	-	90.00%	5.19%	4.81%	0%
SY	8	397.06	FMP1	FMP1562	FMP1657	-	90.00%	5.19%	4.81%	0%
SY	10	6.67	FMP1	FMP1563	FMP1658	-	90.00%	5.19%	4.81%	0%
SY	12	6.44	FMP1	FMP1564	FMP1659	-	90.00%	5.19%	4.81%	0%
PO	4	1.42	FMP1	FMP1565	FMP1660	-	90.00%	5.19%	4.81%	0%
PO	6	2.63	FMP1	FMP1566	FMP1661	-	90.00%	5.19%	4.81%	0%
PO	8	34.08	FMP1	FMP1567	FMP1662	-	90.00%	5.19%	4.81%	0%
PO	10	4.32	FMP1	FMP1568	FMP1663	-	90.00%	5.19%	4.81%	0%
PO	14	0.62	FMP1	FMP1569	FMP1664	-	90.00%	5.19%	4.81%	0%
NO	10	3.43	FMP1	FMP1570	FMP1665	-	90.00%	5.19%	4.81%	0%

Northern Ireland, Private sector

CARBINE tree species code	Yield class	Total area of stratum (ha)	Allocated FMPs by index number				Percentage allocation of FMPs to stratum area			
			No harvesting	No thinning, with clearcutting	Thinning, with clearcutting	Continuous cover	No harvesting	No thinning, with clearcutting	Thinning, with clearcutting	Continuous cover
NS	6	0.49	FMP1	FMP1476	FMP1571	-	30.00%	48.92%	21.08%	0%
NS	8	0.43	FMP1	FMP1477	FMP1572	-	30.00%	48.92%	21.08%	0%
NS	10	1.18	FMP1	FMP1478	FMP1573	-	30.00%	48.92%	21.08%	0%
NS	12	18.35	FMP1	FMP1479	FMP1574	-	30.00%	48.92%	21.08%	0%
NS	14	46.15	FMP1	FMP1480	FMP1575	-	30.00%	48.92%	21.08%	0%
NS	16	264.10	FMP1	FMP1481	FMP1576	-	30.00%	48.92%	21.08%	0%
NS	18	46.28	FMP1	FMP1482	FMP1577	-	30.00%	48.92%	21.08%	0%
NS	20	73.46	FMP1	FMP1483	FMP1578	-	30.00%	48.92%	21.08%	0%
NS	22	0.84	FMP1	FMP1484	FMP1579	-	30.00%	48.92%	21.08%	0%
SS	6	3.93	FMP1	FMP1485	FMP1580	-	30.00%	48.92%	21.08%	0%
SS	8	8.55	FMP1	FMP1486	FMP1581	-	30.00%	48.92%	21.08%	0%
SS	10	54.20	FMP1	FMP1487	FMP1582	-	30.00%	48.92%	21.08%	0%
SS	12	817.04	FMP1	FMP1488	FMP1583	-	30.00%	48.92%	21.08%	0%
SS	14	1 279.10	FMP1	FMP1489	FMP1584	-	30.00%	48.92%	21.08%	0%
SS	16	3 446.69	FMP1	FMP1490	FMP1585	-	30.00%	48.92%	21.08%	0%
SS	18	1 052.18	FMP1	FMP1491	FMP1586	-	30.00%	48.92%	21.08%	0%

CARBINE tree species code	Yield class	Total area of stratum (ha)	Allocated FMPs by index number				Percentage allocation of FMPs to stratum area			
			No harvesting	No thinning, with clearcutting	Thinning, with clearcutting	Continuous cover	No harvesting	No thinning, with clearcutting	Thinning, with clearcutting	Continuous cover
SS	20	411.61	FMP1	FMP1492	FMP1587	-	30.00%	48.92%	21.08%	0%
SS	22	17.20	FMP1	FMP1493	FMP1588	-	30.00%	48.92%	21.08%	0%
SP	4	2.45	FMP1	FMP1494	FMP1589	-	30.00%	48.92%	21.08%	0%
SP	6	9.11	FMP1	FMP1495	FMP1590	-	30.00%	48.92%	21.08%	0%
SP	8	49.04	FMP1	FMP1496	FMP1591	-	30.00%	48.92%	21.08%	0%
SP	10	31.21	FMP1	FMP1497	FMP1592	-	30.00%	48.92%	21.08%	0%
SP	12	124.67	FMP1	FMP1498	FMP1593	-	30.00%	48.92%	21.08%	0%
SP	14	14.01	FMP1	FMP1499	FMP1594	-	30.00%	48.92%	21.08%	0%
CP	6	0.14	FMP1	FMP1500	FMP1595	-	30.00%	48.92%	21.08%	0%
CP	8	0.80	FMP1	FMP1501	FMP1596	-	30.00%	48.92%	21.08%	0%
CP	10	0.97	FMP1	FMP1502	FMP1597	-	30.00%	48.92%	21.08%	0%
CP	12	19.99	FMP1	FMP1503	FMP1598	-	30.00%	48.92%	21.08%	0%
CP	14	0.13	FMP1	FMP1504	FMP1599	-	30.00%	48.92%	21.08%	0%
CP	16	16.73	FMP1	FMP1505	FMP1600	-	30.00%	48.92%	21.08%	0%
CP	18	0.21	FMP1	FMP1506	FMP1601	-	30.00%	48.92%	21.08%	0%
LP	4	32.25	FMP1	FMP1507	FMP1602	-	30.00%	48.92%	21.08%	0%
LP	6	82.54	FMP1	FMP1508	FMP1603	-	30.00%	48.92%	21.08%	0%
LP	8	464.69	FMP1	FMP1509	FMP1604	-	30.00%	48.92%	21.08%	0%
LP	10	154.59	FMP1	FMP1510	FMP1605	-	30.00%	48.92%	21.08%	0%
LP	12	66.72	FMP1	FMP1511	FMP1606	-	30.00%	48.92%	21.08%	0%
LP	14	4.99	FMP1	FMP1512	FMP1607	-	30.00%	48.92%	21.08%	0%

CARBINE tree species code	Yield class	Total area of stratum (ha)	Allocated FMPs by index number				Percentage allocation of FMPs to stratum area			
			No harvesting	No thinning, with clearcutting	Thinning, with clearcutting	Continuous cover	No harvesting	No thinning, with clearcutting	Thinning, with clearcutting	Continuous cover
EL	6	2.59	FMP1	FMP1513	FMP1608	-	30.00%	48.92%	21.08%	0%
EL	8	20.40	FMP1	FMP1514	FMP1609	-	30.00%	48.92%	21.08%	0%
EL	10	71.15	FMP1	FMP1515	FMP1610	-	30.00%	48.92%	21.08%	0%
EL	12	7.64	FMP1	FMP1516	FMP1611	-	30.00%	48.92%	21.08%	0%
JL	4	0.46	FMP1	FMP1517	FMP1612	-	30.00%	48.92%	21.08%	0%
JL	6	5.42	FMP1	FMP1518	FMP1613	-	30.00%	48.92%	21.08%	0%
JL	8	33.91	FMP1	FMP1519	FMP1614	-	30.00%	48.92%	21.08%	0%
JL	10	93.40	FMP1	FMP1520	FMP1615	-	30.00%	48.92%	21.08%	0%
JL	12	193.03	FMP1	FMP1521	FMP1616	-	30.00%	48.92%	21.08%	0%
JL	14	62.49	FMP1	FMP1522	FMP1617	-	30.00%	48.92%	21.08%	0%
DF	12	0.24	FMP1	FMP1523	FMP1618	-	30.00%	48.92%	21.08%	0%
DF	14	0.23	FMP1	FMP1524	FMP1619	-	30.00%	48.92%	21.08%	0%
DF	16	5.00	FMP1	FMP1525	FMP1620	-	30.00%	48.92%	21.08%	0%
DF	18	69.55	FMP1	FMP1526	FMP1621	-	30.00%	48.92%	21.08%	0%
DF	20	6.34	FMP1	FMP1527	FMP1622	-	30.00%	48.92%	21.08%	0%
DF	22	7.78	FMP1	FMP1528	FMP1623	-	30.00%	48.92%	21.08%	0%
GF	14	0.61	FMP1	FMP1529	FMP1624	-	30.00%	48.92%	21.08%	0%
NF	10	0.11	FMP1	FMP1530	FMP1625	-	30.00%	48.92%	21.08%	0%
NF	12	3.02	FMP1	FMP1531	FMP1626	-	30.00%	48.92%	21.08%	0%
NF	14	18.41	FMP1	FMP1532	FMP1627	-	30.00%	48.92%	21.08%	0%
NF	16	45.75	FMP1	FMP1533	FMP1628	-	30.00%	48.92%	21.08%	0%

CARBINE tree species code	Yield class	Total area of stratum (ha)	Allocated FMPs by index number				Percentage allocation of FMPs to stratum area			
			No harvesting	No thinning, with clearcutting	Thinning, with clearcutting	Continuous cover	No harvesting	No thinning, with clearcutting	Thinning, with clearcutting	Continuous cover
NF	18	3.22	FMP1	FMP1534	FMP1629	-	30.00%	48.92%	21.08%	0%
NF	20	0.65	FMP1	FMP1535	FMP1630	-	30.00%	48.92%	21.08%	0%
WH	12	10.84	FMP1	FMP1536	FMP1631	-	30.00%	48.92%	21.08%	0%
WH	14	2.91	FMP1	FMP1537	FMP1632	-	30.00%	48.92%	21.08%	0%
WH	16	2.24	FMP1	FMP1538	FMP1633	-	30.00%	48.92%	21.08%	0%
WH	18	0.07	FMP1	FMP1539	FMP1634	-	30.00%	48.92%	21.08%	0%
RC	12	8.19	FMP1	FMP1540	FMP1635	-	30.00%	48.92%	21.08%	0%
RC	14	1.15	FMP1	FMP1541	FMP1636	-	30.00%	48.92%	21.08%	0%
RC	16	1.38	FMP1	FMP1542	FMP1637	-	30.00%	48.92%	21.08%	0%
RC	18	0.03	FMP1	FMP1543	FMP1638	-	30.00%	48.92%	21.08%	0%
OK	4	1 102.54	FMP1	FMP1544	FMP1639	-	90.00%	5.19%	4.81%	0%
OK	6	853.92	FMP1	FMP1545	FMP1640	-	90.00%	5.19%	4.81%	0%
OK	8	2 950.76	FMP1	FMP1546	FMP1641	-	90.00%	5.19%	4.81%	0%
AH	4	874.16	FMP1	FMP1547	FMP1642	-	90.00%	5.19%	4.81%	0%
AH	6	306.45	FMP1	FMP1548	FMP1643	-	90.00%	5.19%	4.81%	0%
AH	8	349.20	FMP1	FMP1549	FMP1644	-	90.00%	5.19%	4.81%	0%
AH	10	10.48	FMP1	FMP1550	FMP1645	-	90.00%	5.19%	4.81%	0%
AH	12	6.20	FMP1	FMP1551	FMP1646	-	90.00%	5.19%	4.81%	0%
BE	4	56.90	FMP1	FMP1552	FMP1647	-	90.00%	5.19%	4.81%	0%
BE	6	110.29	FMP1	FMP1553	FMP1648	-	90.00%	5.19%	4.81%	0%
BE	8	590.28	FMP1	FMP1554	FMP1649	-	90.00%	5.19%	4.81%	0%

CARBINE tree species code	Yield class	Total area of stratum (ha)	Allocated FMPs by index number				Percentage allocation of FMPs to stratum area			
			No harvesting	No thinning, with clearcutting	Thinning, with clearcutting	Continuous cover	No harvesting	No thinning, with clearcutting	Thinning, with clearcutting	Continuous cover
BE	10	253.83	FMP1	FMP1555	FMP1650	-	90.00%	5.19%	4.81%	0%
BI	4	881.12	FMP1	FMP1556	FMP1651	-	90.00%	5.19%	4.81%	0%
BI	6	236.30	FMP1	FMP1557	FMP1652	-	90.00%	5.19%	4.81%	0%
BI	8	297.54	FMP1	FMP1558	FMP1653	-	90.00%	5.19%	4.81%	0%
BI	10	2.25	FMP1	FMP1559	FMP1654	-	90.00%	5.19%	4.81%	0%
SY	4	719.69	FMP1	FMP1560	FMP1655	-	90.00%	5.19%	4.81%	0%
SY	6	356.80	FMP1	FMP1561	FMP1656	-	90.00%	5.19%	4.81%	0%
SY	8	2 183.87	FMP1	FMP1562	FMP1657	-	90.00%	5.19%	4.81%	0%
SY	10	36.69	FMP1	FMP1563	FMP1658	-	90.00%	5.19%	4.81%	0%
SY	12	35.43	FMP1	FMP1564	FMP1659	-	90.00%	5.19%	4.81%	0%
PO	4	7.82	FMP1	FMP1565	FMP1660	-	90.00%	5.19%	4.81%	0%
PO	6	14.45	FMP1	FMP1566	FMP1661	-	90.00%	5.19%	4.81%	0%
PO	8	187.44	FMP1	FMP1567	FMP1662	-	90.00%	5.19%	4.81%	0%
PO	10	23.75	FMP1	FMP1568	FMP1663	-	90.00%	5.19%	4.81%	0%
PO	14	3.40	FMP1	FMP1569	FMP1664	-	90.00%	5.19%	4.81%	0%
NO	10	18.84	FMP1	FMP1570	FMP1665	-	90.00%	5.19%	4.81%	0%

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