

All Ireland Roundwood Production Forecast 2016-2035

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COFORD

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Interpretation advice

Readers who intend using the forecast for planning or investment purposes are urged to thoroughly review the information provided. It may be advisable in certain cases to engage professional advice.

Foreword

Ireland's forest sector is a success story, built on the 10-fold expansion in forest cover achieved since the 1920s. The forest resource today employs over 12,000 people across the state, in activities ranging from planting and harvesting forests, to wood transport and processing. Forests also provide a wide range of public goods and services, not least recreation space for an expanding, and increasingly urban-based population. Given Ireland's low forest cover of 11%, compared with the level of 33% across Europe, there is room for expansion of the industry and the creation of additional sustainable and indigenous jobs.

Recent years have seen Ireland become a net exporter of sawn wood products for the first time in the history of the state, and probably dating back as far as the beginning of the 18th century. This is a manifestation of the benefits of the state having a longterm commitment to expanding Ireland's forest cover and resource.

Considerable scope now exists for further expansion in wood use and processing. This new All Ireland Roundwood Production Forecast anticipates that production on the island will increase from 4 million cubic metres in 2016 to close to 8 million by 2035. This doubling of output is set to come, in the main, from privately-owned, grant-aided forests in the Republic of Ireland.

The forecast is a collaborative effort involving Coillte, the Forest Service, the Northern Ireland Forest Service, Teagasc, as well as the Irish Farmers Association (IFA), the Irish Timber Council (ITC), and the Irish Timber Growers Association (ITGA). It has brought together improved forest resource information for private and state-owned forests, the introduction of new harvest planning procedures in Coillte, and a national productivity model for private sector forests, which has been developed by Teagasc.

Mobilising an additional 4 million cubic metres per year by the end of the forecast period will, of course, present a challenge to the sector. The issues have been well set out in the recommendations of COFORD Wood Mobilisation report issued last year. The Department is addressing a number of issues through the current Forestry Programme, including the critical element of state support for the building of new forest roads, training of harvester and forwarder operators, and support for voluntary forest certification initiatives. The recently introduced ITGA Wood Price Quarterly, supported by DAFM, also aims to support mobilisation by providing growers with the confidence to market their produce at a fair price. In addition to these measures COFORD has established a dedicated Group to work with my officials and the wider sector in progressing the recommendations made in the Wood Mobilisation report. I am confident the sector has the capacity to meet these challenges and avail of the opportunities that will arise from an increase in wood production.

In conclusion I want to thank all involved in developing the forecast and bringing the work to a successful conclusion. As well as supporting wood mobilisation, it provides a good yardstick for measuring progress in the forest sector over the coming decade and beyond.

Andrew Doyle TD Minister of State for Forestry

October 2016

Executive summary

The forest processing and emerging wood energy sectors require forecast volumes at an all Ireland level, to underpin investment decisions. This document collates forecast volume data from a number of sources and presents them on an all Ireland basis. Forecast volumes are based on a range of assumptions, yield models, management regimes and forecast rules which may or may not be applicable at individual plantation level.

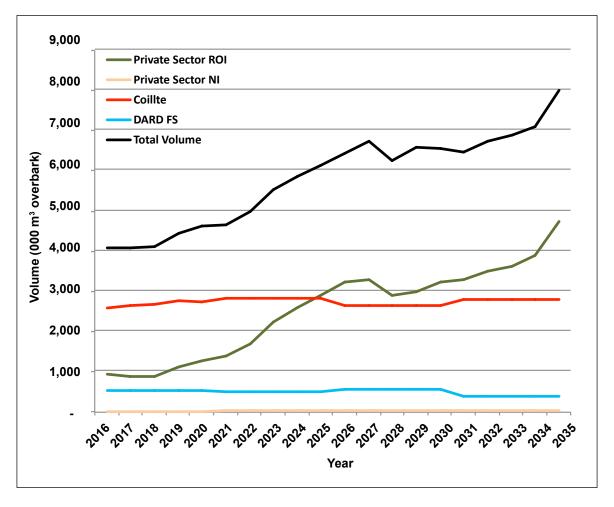
To aid in interpretation and planning, this document should be read in conjunction with the COFORD Wood Mobilisation report¹.

A forecast of roundwood production is a best estimate at a moment in time. There are many influencing factors which may result in a forecast not being achieved. These include catastrophic weather events, fluctuations in timber markets, changes in forest policy, and longterm impacts of climate change.

Outside of the forecast compilation, the Forest Service, under the auspices of the National Council for Forest Research and Development - COFORD - is putting in place a process to compare outturn with forecast volumes, with a view to informing future forecasts.

Three forecasts are presented in this report: (1) forecast of gross volume, (2) forecast of net realisable volume (NRV) which includes reductions for harvest loss, accessibility and crops unlikely to be harvested and (3) forecast of wood fibre availability.

A number of advances have been made since the last all Ireland forecast including: (a) improved forest resource information for private and state-owned forests, (b) the introduction of new harvest planning procedures in Coillte, (c) the use of forecasting optimisation software in the Republic of Ireland (ROI) and (d) a national yield class potential model for private sector forests.



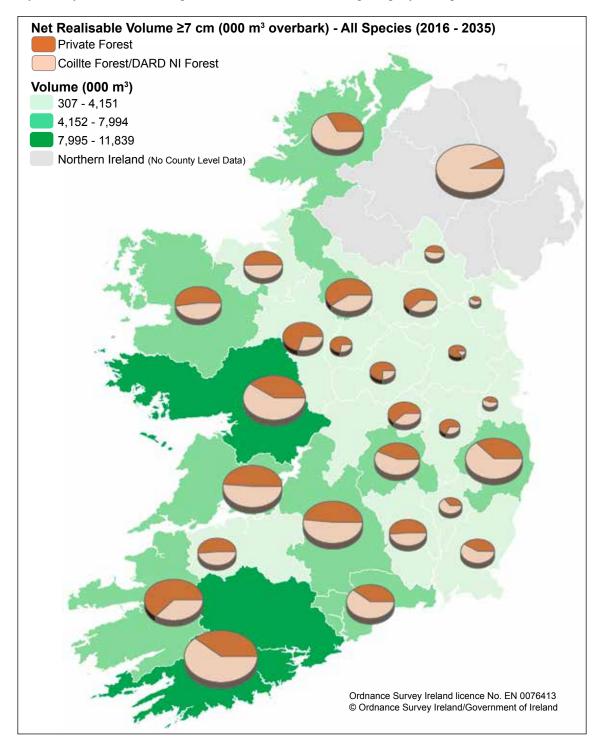
Forecast of total net realisable volume

¹ COFORD Wood Mobilisation Group. 2015. Mobilising Ireland's forest resource. COFORD, Dublin. Available at www.coford.ie.

A key feature of this forecast, in line with previous forecasts, is that roundwood supply will increase significantly over the next two decades, with almost all of the increase coming from privately-owned forests in the ROI and primarily in the larger size assortments.

The forecast NRV will increase from 3.95 million m³ in 2016 to 7.86 million m³ by 2035. Similar to the forecast for gross volume, there is a temporary decline in 2028 of the order of 0.37 million m³ followed by an upward trend to the year 2035.

When compared with the 2011 forecast² over the common reporting period 2016-2028, there are relatively small differences in total volume - 66.55 million m³ compared with the previous forecast estimate of 66.04 million m³. However, there are year-on-year differences of up to +/-14% in forecast NRV, due principally to the private sector ROI forecast NRV.



Phillips, H. 2011. All Ireland Roundwood Production Forecast 2011-2028. COFORD, Department of Agriculture, Fisheries and Food, Dublin. Available at www.coford.ie.

The greatest difference between the current and the 2011 forecast relates to the NRV by harvest type. Thinning volume is now forecast to account for just 22.04 million m³ or 19% of total volume over the forecast period, with the balance of 91.66 million m³ or 81% of volume coming from clearfells. When compared with the previous forecast over the period 2016-2028 there is a decline in thinning volume from 33% of total volume to 23%. In line with the decrease in thinning volume, there is a comparable drop in the area for thinning over the forecast period. Thinning area increases from an estimated 21,600 ha in 2016 to a peak of 34,100 ha in 2023 and then shows a steady decline to 22,400 ha in 2035.

Spruce (includes all spruce species) with a forecast NRV of 97.61 million m³ or 85.9% of total volume over the period, dominates the forecast volumes. In the 2011 forecast it accounted for almost the same proportion (84%) of total volume. Lodgepole pine and other conifers account for 4.8% and 6.7% of total volume respectively, while broadleaves account for the balance of 2.9%, equivalent to 3.34 million m³ over the period.

The potential wood fibre available for energy and other uses totals 58.1 million m³ over the period of the forecast (Table 1). The volume increases steadily from 1.8 million m³ in 2016 to 4.2 million m³ in 2035. The increase is due to the increasing volume of downgrade and wood residues in line with the increasing volume availability as outlined in the NRV forecast.

Introduction

FORESTS GENERAL

The EU contains 5% of the world's forests with 157 million ha of forest and 20 million ha of other wooded land representing 42.3 % of the EU land area. Forest area in the EU has increased at an estimated rate of 0.4% per year since 1990, due to afforestation programmes, natural succession of vegetation and abandonment of farming. This is in contrast to the current global situation where the forest area continues to decline. The EU timber growing stock is estimated as being 24 billion m³, of which some 21.7 billion m³ is available for wood supply. Net annual increment is 620 million m³, with fellings accounting for 470 million m³ or 76% of increment³.

Ireland, in contrast with the rest of the EU has a relatively low level of forest cover, with 11% in the Republic of Ireland (ROI) and 8% in Northern Ireland (NI). Current annual fellings total 3.5 million m³ for the whole island⁴. Despite the low level of forest cover and current felling levels, Ireland has a strong and well-developed wood processing sector, and is a net exporter of timber and timber related products. This arises from a combination of relatively high timber growth rates and investment in processing technology.

Forests in Ireland are relatively young in comparison with other EU forests. The majority owe their origin to plantings over the past fifty years, with the greater part of the private sector in the ROI being planted over the past twenty-five years. Ownership is 53% state in the ROI and 55% state in NI, compared with an EU average of 40%. Forests are mainly coniferous: 69% in ROI and 59% in NI. Broadleaf forests account for 17% in the ROI and 29% in NI, with mixed forests making up the balance.

Forest growing stock and increment

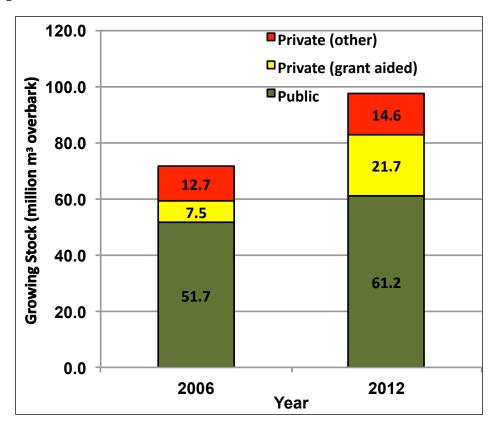


Figure 1: Growing stock, Republic of Ireland.

³ FOREST EUROPE, UNECE and FAO 2011: State of Europe's Forests 2011. Status and Trends in Sustainable Forest Management in Europe

Knaggs, G. and O'Driscoll E. 2015. Woodflow and forest-based biomass energy use on the island of Ireland (2014). COFORD Connects, Processing/Products No.35 and Forest Service Annual Report 2014-2015 /www.dardni.gov.uk/sites/default/files/publications/dard/annual-report-14-15-final-1-july.pdf

The National Forest Inventory estimated the total standing growing stock in forests in the ROI as 97.48 million m³ in 2012. This represents an increase of 25.62 million m³ on the 2006 standing volume⁵. During the same period the growing stock has nearly tripled in the private (grant-aided) forests. Public forests contain nearly twice the growing stock of private forests, but the gap is decreasing rapidly as the younger private forests begin to mature.

Conifer species account for 81.8% of the growing stock volume with broadleaf species accounting for the balance of 18.2%. Sitka spruce is the main volume species, accounting for 59% of the total growing stock, followed by other pines at 9.7%. Counties in the west of Ireland have the highest proportion of growing stock, while Co Cork has the highest overall growing stock at 12.5 million m³.

In Northern Ireland, the Department of Agriculture and Rural Development (DARD) Forest Service estimates the 2016 standing conifer volume as 12.1 million m³, while the private sector standing volume (including all species) is estimated as 4.67 million m³.

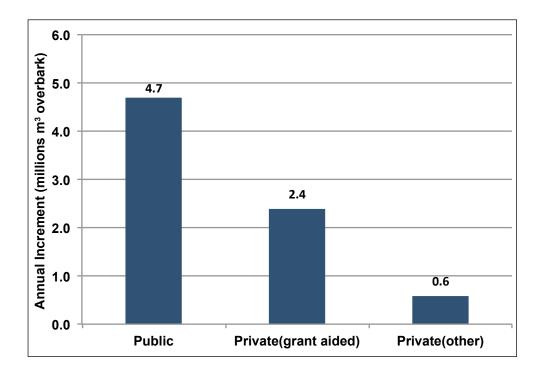


Figure 2: Annual volume increment, Republic of Ireland.

Nearly two-thirds of the increment was accounted for by public forests. Annual harvesting⁶ (state plus private) for the period 2006-2012 inclusive averaged 2.65 million m³.

Sitka spruce dominates volume increment in terms of species, comprising 70% of the annual volume increment, followed by other pines at 9%.

The DARD Forest Service standing conifer volume current annual increment is estimated as being 534,000 m³. Compliance with forest certification requirements results in fellings being less than the current annual increment.

Forest Service. 2013. National Forest Inventory – Republic of Ireland – Results Covering the National Forest Inventory, 2009 to 2012. Forest Service, Wexford.

⁶ Gross volume, no deduction for harvesting losses.

FORECASTING

Forecasting is about predicting the future as accurately as possible, given all of the information available. Forecasts can be short-term, medium-term or long-term in nature, with the latter generally used for strategic planning. Typically forecasting comprises four basic steps - first defining the scope of the forecast and what the data will be used for; second gathering and validating the available information; third undertaking preliminary analysis to determine does the forecast data behave the way they should, are there gaps or outliers, and is there a reasonable explanation for the resulting trends and; fourth selecting/refining and fitting the predictive forecast model (Figure 3).

Forestry is no different than any other business in its requirement for accurate forecasts of production (resource availability) upon which to guide and inform policy, to base future investment decisions or plan the development of the sector and the necessary infrastructure. However, with such a long production cycle (rotation length) in comparison with other industries, production forecasts are by their nature long-term and repeated at regular intervals every five to ten years.

Roundwood production forecasts require (a) information on the forest resource e.g. species, age, productivity, soils, elevation, previous treatment, (b) information on the intention of owners in terms of silvicultural regime, rotation length, thinning frequency and intensity, (c) forest growth models which can forecast future volumes in line with owners' intentions and (d) a forecasting model which incorporates all of the required information and any underlying assumptions e.g. the sustainability of the forest resource, the replanting of felled crops, the rate at which increases or decreases in forecast production volumes are released to the market etc.

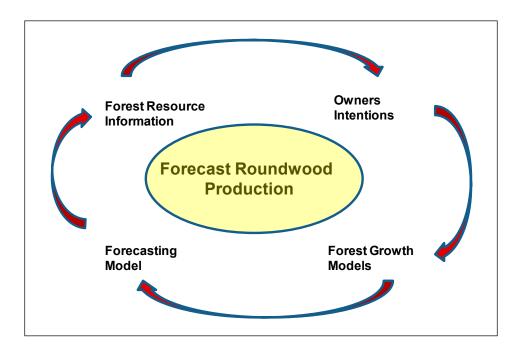


Figure 3: The elements of roundwood production forecasting.

The history of forecasting in Ireland is relatively short-lived, dating back to the second half of the last century. Forecasts for state-owned forests were originally computed by hand and were typically based on a combination of forest inventory information, forest ready reckoners, Forestry Commission yield models and a series of simplifying assumptions. With the introduction of computers, the computational aspects of forecasting were greatly improved; more complex and robust forecasting models were possible resulting in greater accuracy and reliability. Today forecasting is based on more complete inventory information, taking account of environmental considerations and forest management constraints, together with greatly improved and more flexible growth and yield models and more informed information on the intentions of owners, especially the private sector.

A forecast of roundwood production is a best estimate at a moment in time. There are many influencing factors which can result in the forecast not being achieved. Catastrophic events such as the storms which hit the south-west of the country in early 2014 can result in windblown or partially blown forest crops being harvested early and other crops having their harvest dates deferred, with a consequent impact on species and size assortment composition, thereby impacting on the forecast data for one or more years. Other short-term impacts can relate to fluctuations in the market for roundwood. Strong market demand and strong prices can leverage additional volume supplies to market, resulting in volumes greater than forecasted. The converse is equally true: when there is a downturn in markets for roundwood lesser volumes are sold and harvested, resulting in less volume than the forecast. Longer-term impacts on forecast volumes can arise for a number

of reasons, including climate change, the impacts of changes in forest policy, changes in the overall regulatory framework for forestry, and underlying assumptions not holding true: for example investment in forest roads and the capacity of the contracting resource to deal with increased thinning and clearfell volumes.

Ex post evaluation

As part of the ROI forecasting system, the Forest Service has initiated a process under the auspices of the National Council for Forest Research and Development (COFORD) to compare actual volume outturn with forecast volume. It will serve as feedback to improve future forecasts and will be published separately as a standalone document.

PURPOSE OF FORECAST

The purpose of this second all Ireland forecast is to:

- a) Provide an agreed methodology and approach for estimating future roundwood availability;
- b) Provide the forest and wood energy sector with an accurate forecast of roundwood and wood fibre availability;
- c) Facilitate the mobilisation of state and private forest resources;
- d) Inform policy and policy/ decision makers regarding future roundwood production; and
- e) Underpin future investment in the timber processing and wood energy sectors.

Forecast mapping tool

The roundwood production forecast for the ROI has been developed and produced in the form of a GIS (Geographic Information System) database. The geographic information used to create the forecast is stored in layers (e.g. windspeed, yield class, access and elevation) and integrated with geographic software programs, including Remsoft, to allow new spatial information to be created, stored, manipulated, analysed, and visualised. The geospatial forecast database generated includes the location of forest properties stored in the form of a digital map and includes the roundwood forecasts from both private- and Coillte-owned forest areas. A web-based mapping tool will be developed to enable local or user-defined forecasts to be derived, as well as enabling the display of all forest areas. It is anticipated that this freely available tool will be online from mid October 2016 and will be of significant benefit for disseminating the results of the forecast.

Methodology

GENERAL

There are a number of significant changes between the current (2016) forecast and the previous (2011) forecast. These include:

- 1. The private sector ROI volumes now include those volumes from the exercise of harvesting rights purchased from Coillte by for example Irish Forestry Unit Trust (IForUT) and Davy Forestry Fund (DFF). Previously these volumes were included in the Coillte forecast volumes;
- 2. The forecast volumes from Coillte farm partnerships, IForUT and DFF harvesting rights were provided by Coillte using their forecast methodology due to the more comprehensive inventory information available for these areas;
- **3.** The private sector ROI volumes for spruce and lodgepole pine are now based on GROWFOR yield models and not on Forestry Commission yield models;
- **4.** Both Coillte and private sector ROI forecasts were compiled using a common software platform Remsoft. The optimisation engine in Remsoft allows the user to define the objective to be optimised, the inputs to be used, the required outputs, and the operating constraints;
- **5.** In the background, the forecasts were run for significantly longer periods (80 years) to ensure that the forecast did not result in depletion of the resource and that the forest estate was being sustainably managed;
- **6.** The dataset for the private sector ROI forecast has been updated and significantly improved by the Forest Service. Yield class for Sitka spruce was assigned based on the methodology developed by Farrelly et al.⁷, which provided a more reliable estimate of yield class. The dataset now provides a more comprehensive and accurate basis for forecasting future roundwood volume production; and
- 7. The wood fibre potential availability now excludes the tip to 7 cm volume (Tables 1 & 2) from clearfells which is captured in the estimate of harvesting residues (lop and top) from suitable clearfell sites. Two estimates are provided: one excluding Coillte small roundwood, with the other including this volume.

COILLTE

Since 2011 Coillte has been developing a new approach to the strategic and tactical planning of its forest resource using software produced by the Canadian firm Remsoft. Forest planning now has a 'top down' approach, whereby Group and Forest Division strategy can guide the development of plans down to the level of each forest stand. The system uses mathematical optimisation to devise harvest schedules.

The strategic forecast is based on the principle of maximising the value of the entire forest asset. This is based, in turn, on the sum of all future cash flows that can be generated by that asset expressed in present day terms. The harvest schedules that drive those cash flows are altered by the system for each of the 126,000 forest stands until the overall solution maximises value, subject to various constraints. An overview of the model structure is provided in Figure 4.

Farrelly, N., Ni Dhubhain, A. and Nieuwenhuis, M. 2011. Modelling and mapping the potential productivity of Sitka spruce from site factors in Ireland. *Irish Forestry* 68 Nos 1&2.

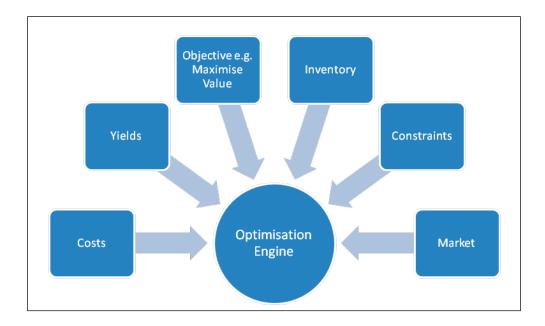


Figure 4: Inputs to the Coillte Remsoft forecast model.

Constraints include sustainability, evenness of volume production, avoidance of high intensity felling in amenity and biodiversity areas, etc. They are designed to provide for the long-term sustainability of the resource. They also simulate the effect of restrictions on felling design in terms of coupe size, 'green-up' and contiguity constraints. Adjustments to yield models are made to bring volume estimates, net of harvest loss, closer to those actually achieved.

The model can account for a number of economic, spatial and temporal factors in the decision problem, such as:

- That the felling operation may be more expensive per unit of roundwood in crops of smaller average tree size.
- That thinning may be more expensive than clearfelling, on a like-for-like average tree size basis.
- That the positive impacts that thinning can bring in terms of improved average tree size, can be weighed against the increased windthrow risk that thinning may cause.
- That total volumes of all products scheduled in any one year can be tracked, and that haulage costs to, and capacities at, each potential customer are included in the analysis.
- That the increase in value which may accrue from retaining a stand for one extra year before clearfell, can be weighed against the time value of money

These are some of the factors encompassed by the management model that was used to create the Coillte contribution to Forecast 2016. It includes many more factors than those used in the 2011 forecast.

While the new forest management model provides added accuracy, it also serves to highlight the influence of a wide number of factors on the actual harvesting outcome. The following factors have been shown to significantly affect the behaviour of the model and the volume which is forecast:

- a) Product conversion patterns;
- **b)** Harvesting loss estimates;
- c) Discount rate;
- **d)** Roundwood prices;
- e) Roundwood demand levels; and
- f) Costs (e.g. access, haul, harvest, restock).

The current forecast incorporates far more inputs than before but they are still best estimates and subject to change over the lifetime of the forecast. In an effort to address some of the uncertainty around the forecast Coillte now produces its central 'most likely' scenario, together with two scenarios with lower and upper bounds of $\pm -2\%$ and $\pm -5\%$, respectively. They are based on observation of a number of scenarios executed using the Remsoft forest management model.

Excluded from the Coillte forecast are areas and crops deemed uneconomic or subject to certain management or environmental constraints. Potential volumes equivalent to approximately 7% of the average annual forecast are not included in the forecast. These volumes are physically present on the estate but are excluded from the forecast for reasons such as location, low productivity, chronic access etc. Figure 5 details the proportion of the total annual volume excluded for the predominant constraints.

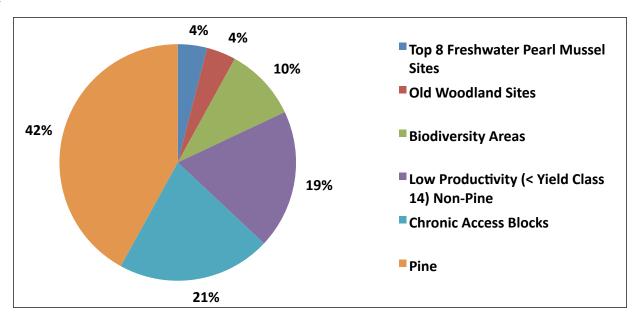


Figure 5: Volumes excluded from the Coillte forecast.

A separate *Remsoft* model was used to forecast broadleaf volumes.

PRIVATE SECTOR REPUBLIC OF IRELAND

Through the co-operation of Coillte, the private sector forecast was also generated using Remsoft software. A management model was developed for the private forest resource and included:

- a) Objective function;
- b) Thinning rules (minimum area, yield class, stability, frequency, intensity etc.);
- c) Rotation lengths;
- d) Clearfell rules (tree size and +/- recommended rotation);
- e) Treatment of FIPS categories⁸;
- f) Volume yields;
- g) Volume reduction factors; and
- **h)** Replacement crops and yield class.

The 1998 Forest Inventory and Planning System (FIPS) forest type categories in the private sector account for circa 72,000 ha. Only limited attribute data are available for these areas apart from general forest classification e.g. mature other broadleaves (37,362 ha), mixed forest mature (14,036 ha), young other broadleaves (5,483 ha), mature oak (3,968 ha) and mature spruce (2,928 ha). Management regimes were assigned to each category, ranging from long-term retention to standard forest management.

The objective was to maximise roundwood volume production over the course of an 80-year planning period, subject to a number of constraints including limits on the increase or decrease in volume production year on year, a limit on the maximum volume production in any one year and sustainability of productivity. The objective function was decided upon by the Roundwood Production Forecasting Group, based on the analysis of a number of possible alternative objective functions and scenarios. The model, as in the previous forecast, does not include potential volume production from afforestation over the forecast period. This will be relatively small and confined to early thinnings.

Rotation lengths and thinning rules were based on a combination of (a) a survey of forest companies and forestry consultants working in the private sector and (b) the views of the Roundwood Production Forecast Group. The rotation lengths were shorter than those used in the 2011 forecast, while the number of thinnings was reduced. The thinning intensity was reduced with a thinning cycle of four years for the majority of crops. The reduced rotation length assumption has a significant impact on the timing of forecast volumes compared with the 2011 forecast, especially over the second half of the forecast period. On average, rotation lengths for spruce were reduced by five years based on an average weighted yield class of 20 for the private estate, with the reduction being greater for the higher yield classes (Figure 6).

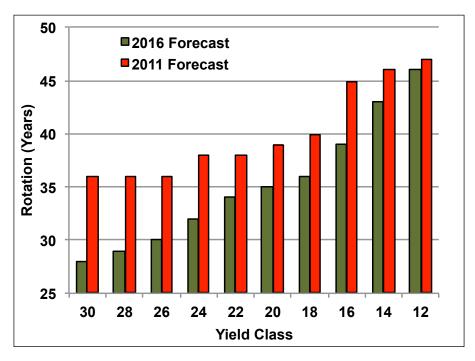


Figure 6: Rotation lengths assumed in the 2011 and 2016 forecasts.

The thinning intensity assumed in the current forecast was on average 70% of the 2011 level. It also impacted on forecast volumes, reducing thinning volume, but increasing the clearfell volume.

The model does not impose restrictions on the size of clearfells or take into consideration any possible felling implications arising from designated area status. However, due to a combination of the smaller average forest size in the private estate and the model-imposed constraints on annual harvest volumes, the impact is not likely to be as significant as for state forests.

NORTHERN IRELAND

Department of Agriculture and Rural Development Forest Service

In Northern Ireland, production forecasting within the Department of Agriculture and Rural Development (DARD) Forest Service (FS) estate is based on an ongoing programme of forest stand inventory measurement combined with aspects of wider forest management planning requirements. This information, as well as informing softwood availability forecasts is also required to verify sustainable forest management and to form the basis of forestry asset valuations for accounting purposes. The policy for sustainable forest management is delivered as a requirement under the Forestry Act (Northern Ireland) 2010, and is assessed for compliance with the UK Forestry Standard by independent audit against the UK Woodland Assurance Standard (UKWAS).

UKWAS is an independent certification standard for verifying sustainable woodland management in the United Kingdom; it is not a certification scheme but, uniquely, it is designed as a single national certification standard for common use by international forest certification schemes operating in the UK.

During the spring and autumn of 2015 a total of 399 inventory plots were re-measured to assess volume production and site productivity (yield class). Production forecasts are based on this survey data and use Forestry Commission growth models and assortment tables to provide forecast estimates of roundwood volume by reporting categories.

Analysis of the data confirms the likelihood that, after 2030, timber availability will decline to around 75% of current levels. At the same time, the DARD FS forests are being increasingly challenged by poor nutrition and disease, so that future forest growth may become more difficult to predict. An element of this estimated forecast decline can be countered by managing stand rotation lengths and thereby increasing the volume available for harvest from thinning and low impact silvicultural systems¹⁰ (LISS).

DARD FS intends to continue to bring roundwood to market at current levels during the period 2016-2020. This programme provides a manageable income derived from current sales contract values and results in an affordable re-establishment obligation. It requires reasonable infrastructure maintenance to support and generates a competitive level of demand from the all Ireland wood processing sector.

Targets for roundwood production figures will be set annually in compliance with strategic objectives identified in and met through annual Business Plans targets. Strategic objectives and future timber marketing are subject to successive government policies, priorities and approvals.

Private forestry sector in Northern Ireland

The private forestry sector forecast of softwood availability is based upon historical DARD Forest Service establishment and management grant data. Private forest establishment over recent decades in Northern Ireland has been predominately broadleaved and in small fragmented blocks of less than 1.0 ha. Other lands becoming classified as forest have arisen from scrubland or neglected farmland and tend towards broadleaved scrub species.

To estimate private sector softwood availability, management models were developed by DARD Forest Service for conifer stands and components which assumed rotation lengths, thinning interventions and intensities, clearfell recoveries and re-establishment objectives.

Removals from private sector woodland is monitored in Northern Ireland and reported annually in Forestry Statistics¹¹.

Silvicultural systems including group selection, shelterwood or under-planting, small coupe felling, coppice or coppice-with-standards, minimum intervention and single tree selection systems which are suitable for windfirm conifer woodlands and most broadleaved woodlands. http://ukwas.org.uk/the-standard/glossary-of-terms

http://www.forestry.gov.uk/website/forstats2015.nsf/LUContents/E37A28A54709AD0480257322004CEB6C.

Results

FORECAST OF GROSS VOLUME

The private sector ROI and Coillte forecast data were combined to provide an overall forecast of gross volume. Due to the computational method used to estimate the forecast production data in Northern Ireland, it was not possible to provide a forecast estimate of gross volume.

The gross volume for the 7-13 cm, 14-19 cm and 20 cm+ size assortment categories totals 113.03 million m³ over the forecast period. Volume increases from 3.75 million m³ in 2016 to 6.59 million m³ in 2027 followed by a decrease of 0.54 million m³ in 2028 and then an increase in volume up to 2035 when 8.11 million m³ is reached (Figure 7). Including the tip-7 cm size assortment, which totals 4.99 million m³ over the forecast period, would increase these figures by 0.25 million m³/year on average.

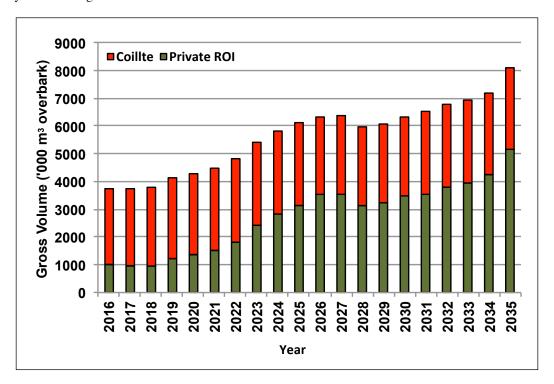


Figure 7: Forecast of gross volume production, Republic of Ireland, 2016-2035.

Gross volumes from the 2011 and current forecast over the common forecasting period 2016-2028 are broadly similar with 65.76 million m³ from the 2011 forecast, compared with the current forecast of 65.15 million m³ which is 0.9% less. It is not possible to compare private sector ROI or Coillte data due to the differences in volume composition.

FORECAST NET REALISABLE VOLUME (NRV)

A number of adjustments were made to the forecast of gross volume to estimate the NRV (Figure 8). The gross volumes were reduced to take account of losses during harvesting and other relevant factors to provide an estimate of the net volume. The size of the harvest loss varied with harvest type and species, being greater for first and second thinnings and for lodgepole pine. Coillte used its in-house reduction factors based on their ongoing analysis of standing volume compared with invoiced volume. In Coillte's new approach to forecasting, reductions in volume due to inaccessible and non-viable areas were made when compiling the gross volume forecast. Reductions for harvest loss were then made to produce estimate of NRV. The ROI private sector volumes were adjusted using the reduction factors in the private sector forecast 2009-2028¹². The two sets of reduction factors are very similar. It should be pointed out that harvest losses may reduce over time due to improvements in technology and/or harvesting practices. No reduction in harvest losses was assumed and the factors were applied equally to all years within the forecast period.

Phillips, H., Redmond, J., Mac Siurtain, M. and Nemesova, A. 2009. Roundwood production from private sector forests 2009-2028. A geospatial forecast. COFORD, Dublin.

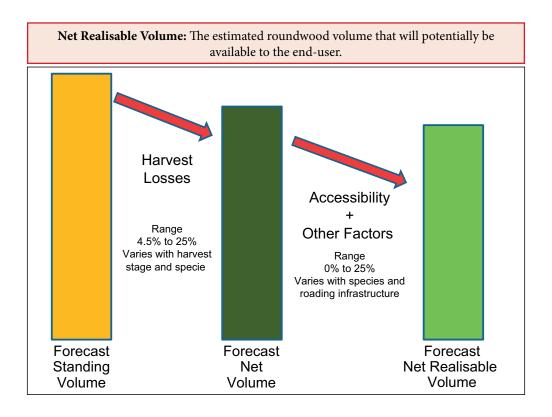


Figure 8: Arriving at net realisable volume.

The forecast NRV totals 113.7 million m³ over the forecast period. NRV increases from 3.95 million m³ in 2016 to 7.86 million m³ by 2035 (Figure 9). Similar to the forecast for gross volume, there is a temporary decline in 2028 of the order of 0.37 million m³ followed by an upward trend to the year 2035.

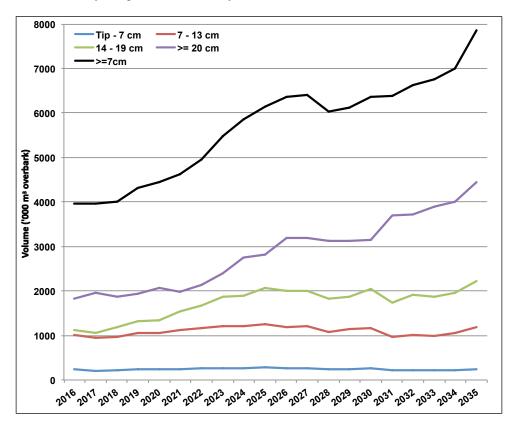
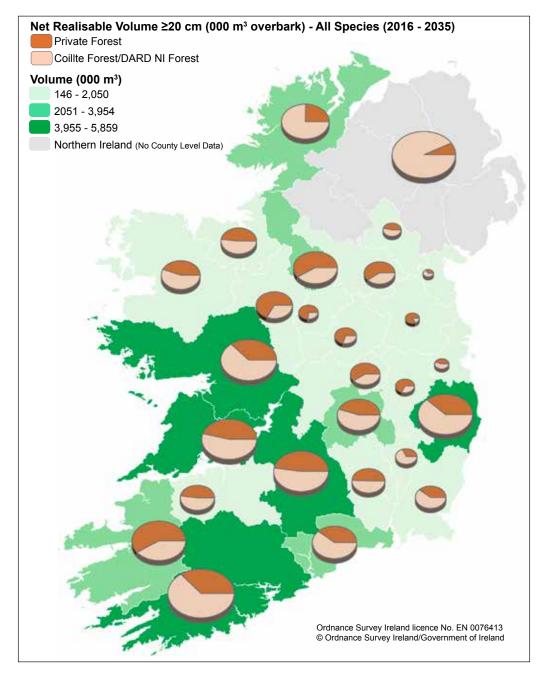


Figure 9: Forecast of NRV by ownership category (excluding Coillte broadleaf volume).

When compared with the previous forecast over the common reporting period 2016 - 2028, there are relatively small differences in total volume - 66.55 million m³ compared with the previous forecast estimate of 66.04 million m³. However there are differences year on year of up to +/-14% in forecast NRV due principally to the shape of the private sector ROI forecast NRV curve.

Due to the differences in the composition of the private sector ROI and Coillte forecast volumes, it is not possible to compare the NRV values from both forecasts. It is possible to directly compare the figures for Northern Ireland, and overall while there is a small increase of the order of 1%, the private sector shows an increase and the DARD FS a small decrease of 80,000 m³ over the forecast period.

The forecast NRV for the size assortment categories tip to 7 cm¹³ and 7 to 13 cm are relatively flat over the forecast period (Figure 10 b). The NRV in the 14 to 19 cm category increases steadily for the first ten years from 1.13 million m³ to 2.07 million m³ by 2027, and then remains relatively flat for the remainder of the forecast apart from the final year when it increases to 2.22 million m³. In contrast, the 20 cm+ category increases quite slowly for the first six to seven years followed by a steady increase from 2 million m³ to 4.46 million m³ by the end of the forecast period.



⁽a)

The volume tip to 7 cm is that associated with the total NRV. An estimate of harvestable volume in the tip to 7 cm assortment is provided in Tables 1 and 2.

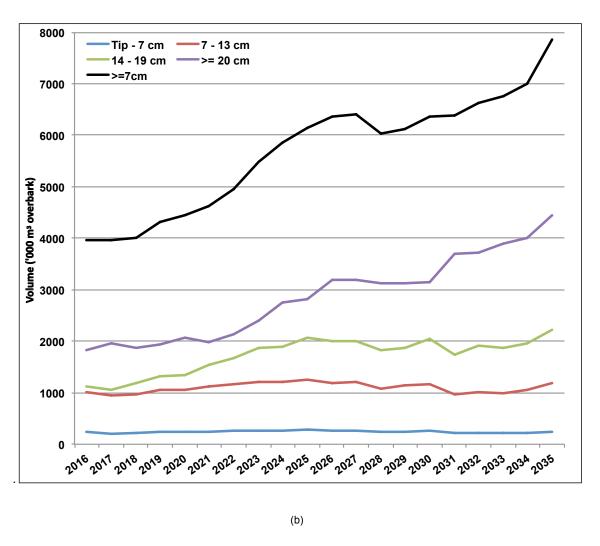


Figure 10 (a): Cumulative volume production 2016-2035 for private and Coillte forest ROI, and state and private forest NI, by county and for Northern Ireland and (b): Forecast of NRV by size assortment (excluding Coillte broadleaf volume).

Forecast NRV by Species Group

Broadleaf volume forecast data are not available for Northern Ireland. Spruce, which includes all spruce species, with an estimated forecast NRV of 97.61 million m³ or 85.9% of total volumes over the forecast period dominates the forecast volumes as was the case in the previous forecast where it accounted for 84% of total volume (Figure 11). Lodgepole pine and other conifers account for 4.8% and 6.7% of total volume respectively while broadleaves account for the remaining balance of 2.9% equivalent to 3.34 million m³ over the forecast period. Although Coillte volumes now include a broadleaf forecast, the volume is relatively small accounting for only 9.6% of the total NRV broadleaf forecast.

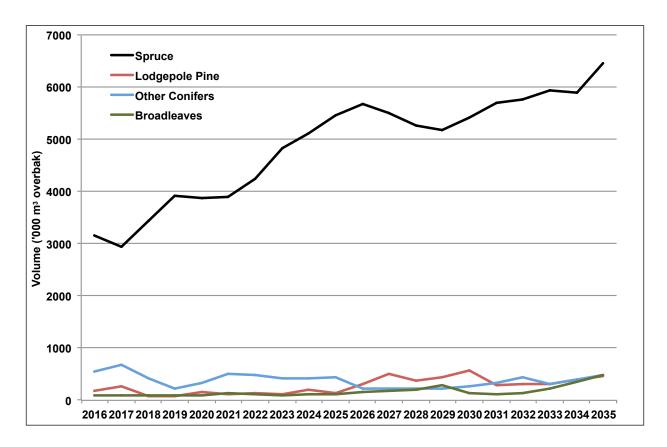


Figure 11: Forecast of NRV by species group (includes Coillte broadleaf volume).

Forecast NRV by Harvest Type

The greatest difference between this forecast and the 2011 forecast relates to the NRV by harvest type. Thinning volume is now forecast to account for just 22.04 million m³ or 19% of total volume over the forecast period with the balance of 91.66 million m³ or 81% of volume coming from clearfells (Figure 12). Over the first eight years thinning volumes account for 24 to 27% of total volume, but thereafter decline steadily to just 11% in 2035. When compared with the previous forecast over the period 2016-2028 there is a decline in thinning volume from 33% of total volume to 23%. The decrease in the contribution of thinnings to total volume is attributable mainly to the private sector ROI, where thinning volumes although increasing over the first half of the forecast, represent a smaller proportion of total volume annually, falling from a high of 54% in 2019 to 7% at the end of the forecast period.

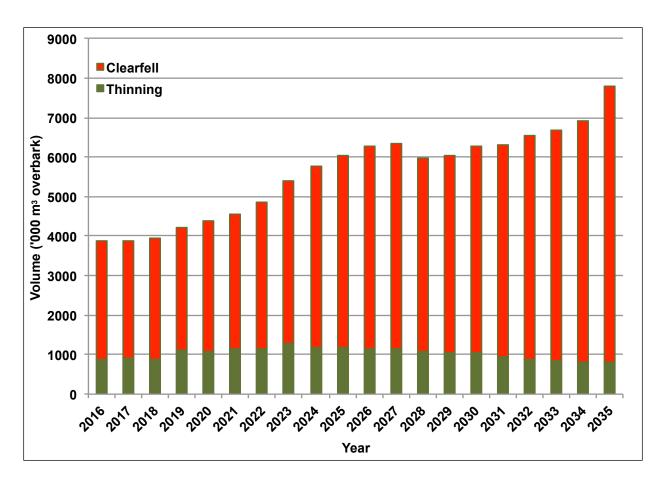


Figure 12: Forecast of NRV by harvest type.

Forecast NRV by Harvest Area

In line with the decrease in thinning volume, there is a comparable drop in the area for thinning over the forecast period. Thinning area increases from an estimated 21,600 ha in 2016 to a peak of 34,100 ha in 2023 and then shows a steady decline to 22,400 ha in 2035 (Figure 13). Clearfell area increases steadily over the forecast period from 7,600 ha in 2016 to a peak of 18,700 ha in 2035. When compared with the previous forecast over the period 2016 - 2028 there is a decline in thinning area of 32% and a decline in clearfell area of the order of 6%.

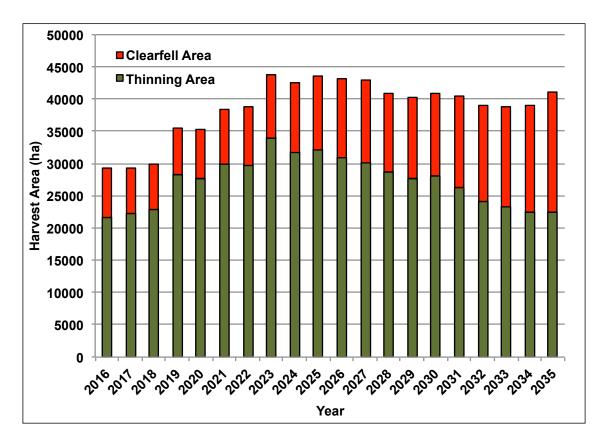


Figure 13: Forecast of harvest area by harvest type.

FORECAST OF WOOD FIBRE AVAILABILITY ROI

The future development of the emerging wood energy sector is dependent on a sustainable and increasing supply of raw material, including small roundwood and wood residues from the processing sector.

To date there has been little information provided within the ROI on the availability or otherwise of roundwood and wood residues for energy, apart from the inclusion of a wood energy assortment in the private sector forecast 2009-2028¹⁴ and the addendum to the previous all Ireland forecast.

There are three main sources of raw material for wood energy – small roundwood, wood residues from the processing sector and post consumer recovered wood (PCRW). Additional raw material is potentially available through the harvesting of tree tips (tip -7 cm) and through the harvesting of lop and top (including branches and some harvest loss material) on suitable sites.

In compiling the estimate of potentially available material in the Republic of Ireland, a number of assumptions were made of which the main ones were:

- Wood volumes comprise the private sector ROI and Coillte only;
- The woodbased panel roundwood demand as defined in the wood mobilisation report¹⁵ will be met through a combination of small roundwood and wood residues from the sawmilling sector. In Table 1 Coillte small roundwood has been assigned to the woodbased panels sector and has been excluded from the table;
- An increasing volume of small roundwood from thinnings in the private sector will potentially be available for wood energy and for wood panels;
- An increasing volume of downgrade material from the larger size assortments in the private sector will be available
 for wood energy and wood panels;
- An increasing volume of wood residues from the processing sector will be available for wood energy and wood panels;

Phillips, H., Redmond, J., Mac Siurtain, M. and Nemesova, A. 2009. Roundwood production from private sector forests 2009-2028. A geospatial forecast. COFORD, Dublin.

¹⁵ COFORD Wood Mobilisation Group. 2015. Mobilising Ireland's forest resource. COFORD, Dublin.

- Harvesting residues of the order of 80 green tonnes per ha will potentially be harvestable from the clearfell of spruce sites on mineral soils with a minimum yield class of 18 and a minimum harvest area of 4 ha;
- The tip 7 cm category is confined to potential harvesting on thinning sites and assumes that 30% of this material is economically recoverable;
- The availability of PCRW, although strongly linked with the activity in the construction sector, will remain at current levels; and
- The total volume includes raw material which can be used for other purposes other than energy e.g. animal bedding and stake production.

Based on the qualifying assumptions above, the potential wood fibre available for energy, woodbased panels and other uses totals 58.1 million m³ over the period of the forecast (Table 1). The volume increases steadily from 1.8 million m³ in 2016 to 4.2 million m³ in 2035. The increase is due to the increasing volume of downgrade and wood residues in line with the increasing volume availability in the NRV forecast.

Table 1: Forecast of wood fibre potentially available in the Republic of Ireland (000 m³ equivalent, excluding Coillte small roundwood).

Year	Tip - 7cm Thinnings	Roundwood 7 -	Downgrade + Wood Residues	Harvesting Residues Clearfells	PCRW	Total	Energy Content Millions (GJ)
2016	26	423	1,125	39	210	1,822	12.57
2017	26	406	1,161	22	210	1,825	12.60
2018	26	425	1,169	54	210	1,883	12.99
2019	32	502	1,264	62	210	2,071	14.29
2020	31	522	1,342	67	210	2,171	14.98
2021	33	555	1,371	63	210	2,233	15.41
2022	33	601	1,502	107	210	2,453	16.92
2023	37	648	1,739	151	210	2,785	19.22
2024	34	649	1,919	199	210	3,011	20.77
2025	34	686	2,043	225	210	3,199	22.07
2026	33	701	2,174	279	210	3,397	23.44
2027	33	728	2,182	201	210	3,355	23.15
2028	31	605	2,061	242	210	3,149	21.73
2029	30	654	2,078	139	210	3,111	21.47
2030	30	695	2,178	173	210	3,286	22.68
2031	27	567	2,370	224	210	3,398	23.45
2032	25	617	2,462	162	210	3,477	23.99
2033	24	602	2,529	223	210	3,588	24.76
2034	24	648	2,629	181	210	3,692	25.47
2035	23	792	2,980	181	210	4,186	28.88
Totals	594	12,024	38,280	2,992	4,200	58,091	400.83

If the supply of Coillte small roundwood to woodbased panels is left open, then total potential wood fibre for energy, panels and other uses reaches 71.38 million m³ (Table 2).

Table 2: Forecast of total wood fibre potentially available in ROI (000 m³ equivalent)

Year	Tip - 7cm Thinnings	Roundwood 7 - 13cm	Downgrade + Wood Residues	Harvesting Residues Clearfells	PCRW	Total	Energy Content Millions (GJ)
2016	28	916	1,334	39	210	2,526	17.43
2017	28	855	1,361	22	210	2,477	17.09
2018	28	866	1,391	54	210	2,549	17.59
2019	35	963	1,503	62	210	2,774	19.14
2020	34	963	1,589	67	210	2,863	19.75
2021	36	1,023	1,602	63	210	2,934	20.24
2022	36	1,068	1,743	107	210	3,164	21.83
2023	39	1,121	1,988	151	210	3,510	24.22
2024	37	1,158	2,138	199	210	3,741	25.81
2025	37	1,145	2,271	225	210	3,889	26.83
2026	36	1,088	2,386	279	210	3,999	27.59
2027	36	1,118	2,513	201	210	4,078	28.14
2028	34	1,038	2,314	242	210	3,838	26.48
2029	33	1,083	2,462	139	210	3,927	27.10
2030	33	1,101	2,441	173	210	3,957	27.31
2031	30	916	2,558	224	210	3,937	27.17
2032	28	967	2,671	162	210	4,038	27.86
2033	27	960	2,748	223	210	4,168	28.76
2034	26	1,001	2,836	181	210	4,254	29.36
2035	26	1,135	3,206	181	210	4,758	32.83
Totals	644	20,488	43,055	2,992	4,200	71,379	492.51

Table 3: Annual forecast of gross volume (000 m³ overbark).

	20cm +	1,700	1,843	1,769	1,832	1,976	1,844	2,016	2,322	2,702	2,771	3,103	3,125	3,053	3,039	3,062	3,726	3,746	3,938	4,080	4,544	56,192
als	14-19 cm	1,013	826	1,063	1,224	1,233	1,502	1,620	1,848	1,871	2,070	1,988	1,984	1,793	1,832	2,029	1,773	1,951	1,912	2,013	2,296	33,954
Totals		1,037	696	972	1,089	1,070	1,164	1,208	1,262	1,260	1,302	1,233	1,263	1,121	1,181	1,218	1,026	1,073	1,067	1,104	1,271	22,887
	Tip - 7cm 7-13 cm	233	200	229	260	254	251	263	282	280	283	269	268	245	248	260	224	231	226	236	256	4,998
	20cm +																					
DARD FS	14-19 cm																					
DAR	7-13 cm																					
	Tip - 7cm 7-13 cm																					
	20cm +	1,344	1,493	1,462	1,505	1,543	1,399	1,399	1,399	1,399	1,399	1,457	1,457	1,457	1,457	1,457	1,724	1,724	1,724	1,724	1,724	30,247
Coillte	14-19 cm	771	746	827	855	826	1,012	1,012	1,012	1,012	1,012	845	842	845	842	845	798	798	798	798	798	17,304
ŏ	Tip - 7cm 7-13 cm	623	699	226	929	543	604	604	604	604	604	208	208	208	208	208	440	440	440	440	440	10,627
	Tip - 7cm	171	144	170	171	168	165	165	165	165	165	141	141	141	141	141	124	124	124	124	124	2,971
	20cm +																					
Private Sector NI	14-19 cm																					•
Private	Tip - 7cm 7-13 cm																					٠
	Tip - 7cm																					•
	20cm +	355	3 351	307	327	433	446	7 617	924	1,303	1,373	1,646	1,668	1,596	1,582	1,605	2,002	2,022	2,213	3,356	2,820	25,945
Private Sector ROI	14-19 cm	242	193	236	368	407	490	109	836	828	1,058	1,143	1,138	948	986	1,184	974	1,153	1,114	1,215	1,498	16,650
Private S	Tip - 7cm 7-13 cm	414	394	416	513	527	9 290	604	. 658	999	869	726	. 755	613	. 673	710	282	. 633	628	664	832	12,260
	Tip - 7cm	62	29	09	68	98	98	66	117	115	118	128	127	104	107	119	100	107	103	112	132	2,027
	Year	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	Totals

1. Gross volume data not available for Northern Ireland due to forecast computational methodology Notes:

2. Private ROI includes broadleaves and conifers3. Coillte excludes broadleaves

Table 4: Annual forecast of Net Realisable Volume (000 m3 overbark).

DARD FS Totals	1,956 1,871 1,872 2,106 2,124 2,124 2,124 2,754 2,754 3,183 3,136 3,136 3,136 3,154	1,548 1,662 1,885 2,071 2,005 2,006 1,882 1,820	1,209	247 248 258	300 300	180	07 07 07 07 07 05 05 05 05 05 05 05 05 05 05 05 05 05	22 22 22 22 22 22 22 22 23 24 25 25 25 25 25 25 25 25 25 25 25 25 25	1,347 1,347 1,347 1,347	764			449	124 449 124 449 124 449	28 124 449 28 124 449 28 124 449	13 28 124 449 13 28 124 449 13 28 124 449 13 28 124 449	7 13 28 124 449 7 13 28 124 449 7 13 28 124 449 7 13 28 124 449 6 43 340 300 300	2 7 13 28 124 449 2 7 13 28 124 449 2 7 13 28 124 449 2 7 13 28 124 449	1,523 2 7 13 28 124 449 1,461 2 7 13 28 124 449 1,455 2 7 13 28 124 449 1,479 2 7 13 28 124 449 1,479 2 7 13 28 124 449 1,479 2 7 13 28 124 449 1,479 2 7 13 28 124 449	1,049 1,523 2 7 13 28 124 449 863 1,461 2 7 13 28 124 449 905 1,455 2 7 13 28 124 449 1084 1,479 2 7 13 28 124 449 905 1,479 2 7 13 28 124 449 900 4007 2 7 13 28 124 449 900 4007 2 7 13 28 124 449
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Tip -7cm 7.13 cm 14.19 cm 20 m+ Tip -7cm 7.13 cm 14.19 cm 21 90 210 220 223 948 1,058 1,128 21 90 210 220 229 961 1,057 21 90 210 220 229 961 1,183 21 90 210 220 248 1,053 1,331 21 90 210 220 248 1,063 1,340 20 70 170 250 246 1,144 1,540 20 70 170 250 257 1,159 1,662 20 70 170 250 275 1,159 1,662 20 70 170 250 267 1,207 1,868 20 70 170 250 269 1,207 1,868	2,820	2,071	1.181	266	300	180	20	22	1,347	764		449		124	28 124	28 124	28 124	2 7 13 28 124	7 13 28 124	1.508 2 7 13 28 124
Tip -7cm 7.13 cm 14.19 cm 20cm + Tip -7cm 7.13 cm 14.19 cm 21 90 210 220 231 1,008 1,128 21 90 210 220 229 961 1,167 21 90 210 220 229 961 1,163 21 90 210 220 248 1,053 1,331 21 90 210 220 248 1,053 1,331 21 90 210 220 247 1,046 1,340 20 70 170 250 256 246 1,114 1,548 20 70 170 250 257 1,159 1,652 20 70 170 250 257 1,159 1,652 20 70 170 250 257 1,159 1,652 20 70 170 170 1,654 1,654	2,754	1,885	1,244	275	300	170	70	20	1,294	924		538		145	16 145 28 124 28 124	16 145 28 124	4 8 16 145 7 13 28 124	1 4 8 16 145 2 7 13 28 124	1,260 1 4 8 16 145 1,508 2 7 13 28 124	969 1,260 1 4 8 16 145 1,048 1,508 2 7 13 28 124
Tip -7cm 7.13 cm 14.19 cm 20cm + Tip -7cm 7.15 cm 14.19 cm 21 90 210 220 231 1,008 1,128 21 90 210 220 229 948 1,657 21 90 210 220 229 961 1,183 21 90 210 220 248 1,053 1,313 20 21 20 247 1,046 1,340 20 70 170 250 247 1,114 1,548 20 70 170 250 246 1,114 1,548	2,403	1,868	1,207	269 275 266	250 250 300	170	70 70 70	20 20 20 20	1,294	924 924 764		538 538 449	Ш	145 145 124	16 145 16 145 28 124	8 16 145 8 16 145 13 28 124	4 8 16 145 4 8 16 145 7 13 28 124	1 4 8 16 145 2 7 13 28 124	1,194	782 1,194 1 4 8 16 145 969 1,260 1 4 8 16 145 1,048 1,568 2 7 13 28 124
Tip -7cm 7-13 cm 14-19 cm 20cm + Tip -7cm 7-13 cm 14-19 cm 21 90 210 220 231 1,008 1,128 21 90 210 220 229 948 1,657 21 90 210 220 229 961 1,183 21 90 210 220 248 1,657 1,331 21 90 210 220 248 1,653 1,331 22 70 170 250 247 1,146 1,349 20 70 170 250 246 1,114 1,548	2,124	1,662	1,207	272 269 275 266	250 250 250 300	170 170 170 180	70 70 70 70	20 20 22 22	1,294 1,294 1,347	924 924 924 764		538 538 538 449		145 145 145 124	16 145 16 145 16 18 18 18 18 18 18 18 18 18 18 18 18 18	8 16 145 8 16 145 8 16 145 13 28 124	4 8 16 145 4 8 16 145 7 13 28 124	1 4 8 16 145 1 4 8 16 145 2 7 13 28 12	842 1 4 8 16 145 1,194 1 4 8 16 145 1,260 1 4 8 16 145 1,508 2 7 13 28 124	766 842 1 4 8 16 145 782 1,194 1 4 8 16 145 969 1,260 1 4 8 16 145 1,048 1,508 2 7 13 28 124
Tip - 7cm 7-13 cm 14-19 cm 20cm + Tip - 7cm 7-13 cm 14-19 cm 21 20 210 220 231 1,008 1,128 21 90 210 220 2948 1,657 21 90 210 220 2948 1,1657 21 90 210 220 286 1,183 21 90 210 220 248 1,053 1,318 21 90 210 220 248 1,053 1,314 21 90 210 220 248 1,053 1,314 21 90 210 220 247 1,046 1,340	1,972	1,548	1,159 1,207 1,244 1,244	257 272 269 275 275 266	250 250 250 250 300	170 170 170 180	07 07 07 07 07	20 20 20 20 20 20 20 20 20 20 20 20 20 2	1,294 1,294 1,294 1,294 1,347	924 924 924 924 764		538 538 538 538 449		145 145 145 145 124	16 145 16 145 16 145 16 145 28 124	8 16 145 8 16 145 8 16 145 13 28 16 124	4 8 16 145 4 8 16 145 4 8 16 145 4 8 16 145 7 13 28 124	1 4 8 16 145 1 4 8 16 145 1 4 8 16 145 2 7 13 28 12	564 1 4 8 16 145 842 1 4 8 16 145 1,194 1 4 8 16 145 1,260 1 4 8 16 145 1,508 2 7 13 28 124	560 564 1 4 8 16 145 766 842 1 4 8 16 145 782 1194 1 4 8 16 145 969 1,260 1 4 8 16 145 1048 1,508 2 7 13 28 124
Tip - 7cm 7-13 cm 14-19 cm 20cm + Tip - 7cm 7-13 cm 14-19 cm 2 21 90 210 220 231 1,008 1,128 9 21 90 210 220 294 1,057 1 21 90 210 220 961 1,183 1 21 90 210 220 248 1,063 1,183 1 21 90 210 220 248 1,063 1,331	2,067		1,114 1,159 1,207 1,207 1,244 1,181	246 257 272 269 269 266	250 250 250 250 250 300	170 170 170 170 180	70 70 70 70 70 70 70	20 20 20 20 20 20 20 20 20 20 20 20 20 2	1,294 1,294 1,294 1,294 1,294	924 924 924 924 924 764		538 538 538 538 538 449		145 145 145 145 124	16 145 16 145 16 145 16 145 28 124	8 16 145 8 16 145 8 16 145 8 16 145 13 28 124	4 8 16 145 4 8 16 145 4 8 16 145 4 8 16 145 4 8 16 145 7 13 28 124	1 4 8 16 145 1 4 8 16 145 1 1 4 8 16 145 1 1 4 8 16 145 2 7 13 28 12	412 1 4 8 16 145 564 1 4 8 16 145 842 1 4 8 16 145 1,260 1 4 8 16 145 1,260 1 4 8 16 145 1,508 2 7 13 28 124	446 412 1 4 8 16 145 560 564 1 4 8 16 145 766 842 1 4 8 16 145 782 1,194 1 4 8 16 145 969 1,260 1 4 8 16 145 1,048 1,508 2 7 13 28 124
Tip-7cm 7-13 cm 14-19 cm 20cm+ Tip-7cm 7-13 cm 14-19 cm 14-19 cm 21 20 210 220 231 1,008 1,128 21 90 210 220 233 948 1,057 21 90 210 220 228 948 1,057 21 90 210 220 229 961 1,182	1,926	1.340	1,046 1,114 1,159 1,207 1,207 1,244 1,181	247 246 257 272 269 275 275 275	220 250 250 250 250 250 300	210 170 170 170 170 170	00 00 00 00 00 00 00 00 00 00 00 00 00	20 20 20 20 20 20 20 20	1,438 1,294 1,294 1,294 1,294 1,294	924 924 924 924 924 764		538 538 538 538 538 538 449		148 145 145 145 145 145	8 148 16 145 16 145 16 145 16 145 28 124	8 16 145 8 16 145 8 16 145 8 16 145 8 16 145 13 28 124	2 4 8 148 4 8 16 145 4 8 16 145 4 8 16 145 4 8 16 145 7 13 28 124	1	401 1 2 4 8 148 412 1 4 8 16 145 564 1 4 8 16 145 842 1 4 8 16 145 1,194 1 4 8 16 145 1,260 1 4 8 16 145 1,508 2 7 13 28 124	372 401 1 2 4 8 148 446 560 564 1 4 8 16 145 766 642 1 4 8 16 145 782 1,194 1 4 8 16 145 969 1,260 1 4 8 16 145 1,048 1,508 2 7 13 28 12
Tip - 7cm 7-13 cm 14-19 cm 20cm + Tip - 7cm 7-13 cm 14-19 cm 21 90 210 220 231 1,008 1,128 21 90 210 220 203 948 1,057	1,871	1,331	1,053 1,046 1,114 1,159 1,207 1,207 1,244 1,181	248 247 246 257 272 269 269 275 275	220 220 220 250 250 250 250 300	210 210 170 170 170 170 180	09 90 07 07 07 07 07 07 07 07 07 07 07 07 07	21 20 20 20 20 20 20 20 20 20 20 20 20 20	1,401 1,438 1,294 1,294 1,294 1,294 1,294 1,347	783 754 924 924 924 924 764		510 481 538 538 538 638 449		150 148 145 145 145 145 124	8 150 8 148 16 145 16 145 16 145 16 145 18 124	4 8 150 8 16 145 8 16 145 8 16 145 8 16 145 8 16 145 13 28 16	2 4 8 150 4 8 16 148 4 8 16 145 4 8 16 145 7 13 28 124	1 2 4 8 150	298 1 2 4 8 150 401 1 2 4 8 148 412 1 4 8 16 145 564 1 4 8 16 145 842 1 4 8 16 145 1194 1 4 8 16 145 1,150 1 4 8 16 145 1,508 2 7 13 28 124	334 298 1 2 4 8 150 46 412 1 2 4 8 148 560 564 1 4 8 16 145 766 842 1 4 8 16 145 782 1,194 1 4 8 16 145 969 1,260 1 4 8 16 145 1,048 1,508 2 7 13 28 124
Tip - 7cm 7-13 cm 14-19 cm 20cm + Tip - 7cm 7-13 cm 14-19 cm 21 90 210 220 231 1,008 1,128	1,956	1,183	961 1,046 1,114 1,119 1,207 1,207 1,244 1,181	229 248 247 246 257 272 269 269 275 269	220 220 220 250 250 250 250 250 250 300	210 210 210 170 170 170 180	000000000000000000000000000000000000000	21 20 20 20 20 20 20 20 20 20 20 20 20 20	1,362 1,401 1,438 1,294 1,294 1,294 1,294 1,294 1,347	757 783 754 924 924 924 924 764		510 510 538 538 538 538 538 538 538		149 150 145 145 145 145 124	8 149 8 150 8 148 16 145 16 145 16 145 16 145 28 124	4 8 149 4 4 8 146 8 16 145 8 16 145 8 16 145 8 16 145 8 16 145 13 28 16	2 4 8 149 2 4 8 150 4 8 16 145 4 8 16 145 4 8 16 145 4 8 16 145 4 8 16 145 4 8 16 145 7 13 28 124	1 2 4 8 149 149 149 149 149 149 149 149 145	281 1 2 4 8 149 298 1 2 4 8 150 401 1 2 4 8 160 412 1 4 8 16 148 842 1 4 8 16 145 1,194 1 4 8 16 145 1,260 1 4 8 16 145 1,508 2 7 13 28 124	212 281 1 2 4 8 149 334 288 1 2 4 8 150 372 401 1 2 4 8 150 446 412 1 4 8 16 148 560 564 1 4 8 16 145 766 842 1 4 8 16 145 782 1,194 1 4 8 16 145 969 1,260 1 4 8 16 145 1048 1508 2 7 13 28 124
7-13 cm 14-19 cm 20cm + Tip - 7 cm 7-13 cm 14-19 cm		1,057 1,183 1,331	948 961 1,053 1,114 1,1159 1,207 1,247 1,244	203 229 248 247 247 246 257 272 272 269 275 275 275 276	220 220 220 220 250 250 250 250 300	210 210 210 170 170 170 170 180	99 99 90 00 00 00 00 00 00 00 00 00 00 0	21 21 21 20 20 20 20 20 20 20 20 20 20 20 20 20	1,399 1,362 1,401 1,401 1,294 1,294 1,294 1,294 1,294 1,294	757 757 783 754 924 924 924 924 764		499 493 510 538 538 538 538 638 649		126 149 150 148 145 145 145 145 124	8 126 8 149 8 160 16 146 16 145 16 145 16 145 17 124 28 124	4 8 126 4 4 8 149 4 4 8 148 8 16 145 8 16 145 8 16 145 13 28 16 145 13 28 16 145 13 28 124	2 4 8 149 2 4 8 149 2 4 8 146 4 8 16 145 4 8 16 145 4 8 16 145 4 8 16 145 7 13 28 124	1 2 4 8 126	329 1 2 4 8 126 281 1 2 4 8 149 298 1 2 4 8 149 401 1 2 4 8 146 412 1 4 8 16 145 842 1 4 8 16 145 1,260 1 4 8 16 145 1,508 2 7 13 28 124	174 329 1 2 4 8 126 212 281 1 2 4 8 149 334 298 1 2 4 8 149 446 412 1 2 4 8 145 560 564 1 4 8 16 145 766 842 1 4 8 16 145 969 1,260 1 4 8 16 145 1048 1,508 2 7 13 28 124
	1,818	1,128 1,057 1,183 1,331 1,340	1,008 948 961 1,053 1,046 1,114 1,1207 1,207 1,207 1,181	231 203 229 229 247 247 246 257 272 269 269 275	220 220 220 220 220 220 250 250 250 250	210 210 210 210 210 170 170 170 170	90 90 90 90 90 90 90 90 90 90 90 90 90 9	20 20 20 20 20 20 20 20 20 20 20 20 20 2	1,262 1,399 1,362 1,401 1,401 1,294 1,294 1,294 1,294 1,294 1,294 1,294 1,294 1,347	695 669 757 783 784 924 924 924 924		548 499 493 510 538 538 538 538 538 449		150 126 149 150 148 145 145 145 145 124	8 150 8 126 8 149 8 150 16 145 16 145 16 145 16 145 16 145 17 124	4 8 150 4 4 8 149 4 4 8 150 4 8 16 8 16 145 8 16 145	2 4 8 150 2 4 8 126 2 4 8 149 2 4 8 148 4 8 16 145 4 8 16 145 4 8 16 145 7 13 28 124	1 2 4 8 150	328 1 2 4 8 150 281 1 2 4 8 126 281 1 2 4 8 149 298 1 2 4 8 148 401 1 2 4 8 148 564 1 4 8 16 145 842 1 4 8 16 145 1.194 1 4 8 16 145 1.50 1 4 8 16 145 1.50 2 7 13 28 12	219 328 1 2 4 8 150 174 329 1 2 4 8 126 212 281 1 2 4 8 146 334 288 1 2 4 8 148 446 412 1 4 8 148 148 560 564 1 4 8 16 145 766 842 1 4 8 16 145 762 1,194 1 4 8 16 145 969 1,260 1 4 8 16 145 1048 1,68 1 4 8 16 145

Private ROI includes broadleaves and conifers -. 0, ω, 4, Notes:

Tip - 7 cm category is the volume associated with the NRV >= 7 cm. An estimate of harvestable volume is provided in Tables 1 and 2.

Tip - 7 cm for Northern Ireland is inferred based on ROI average data

Coillte data excludes broadleaves

Table 5: Annual forecast of Net Realisable Volume by species group (000 $\,\mathrm{m}^3$ overbark).

Year Spruce Lodgepole Other Byare Lodgepole Other Byare Spruce Other Divisor Other Lodgepole Other Byare Spruce Spruce<			Private Sector ROI	or ROI			Private Sector NI	ctor NI			Coillte	te			DARD FS	FS			Totals	S	
6 6 6 8 2.137 7.149 2.26 7.2	Year	Spruce	Lodgepole Pine	Other Conifers	Bivds	Spruce	Lodgepol e Pine		Slvds	Spruce	Lodgepole Pine		Blvds	Spruce	Lodgepole Pine	Other Conifers	Blvds	Spruce	Lodgepole Pine	Other Conifers	Blvds
4 67 5 60 6 7 8 8 8 7 1 4 0 20 <th< th=""><th>2016</th><th>525</th><th>42</th><th>265</th><th>84</th><th>9</th><th>-</th><th>8</th><th></th><th>2,137</th><th>119</th><th>251</th><th>11</th><th>480</th><th>20</th><th>20</th><th></th><th>3,149</th><th>181</th><th>544</th><th>94</th></th<>	2016	525	42	265	84	9	-	8		2,137	119	251	11	480	20	20		3,149	181	544	94
61 61<	2017	467	33	286	74	9		8		1,978	215	378	11	480	20	20		2,931	268	692	98
660 660 67 6 2.561 113 113 480 20	2018	571	61	156	80	9		8		2,387		226	13	480	20	20		3,444	81	411	92
0 1 1 1 1 2 2 3 4 0 2 2 3 8 1 4 4 0 2 2 3 8 1 4 4 4 4 0 4 0 3 8 1 1 3 4	2019	850	09	94	79	9		8		2,581		113	13	480	20	20		3,917	80	234	92
1 1 1 1 1 2 4 1 4	2020	861	88	214	83	9		8		2,537	53	83	13	480	20	20		3,883	161	326	26
2 1.386 1.09 1.136 1.09 1.09 4.03 4.03	2021	1,026	62	134	119	13		15		2,425	19	313	14	430	10	40		3,895	108	502	133
4 4 5 4 5 4 8 4 8 4 8 4 8 4 8 4 8 4 8 4 8 4 8 4 8 4 8 4 8 4 8 4 8 4 8 4 9 4 8 4 9 1 4 9 4 8 4 9 1 2 4 9 4 8 4 9 1 4 9 4 8 4 9 1 4 4 9 4 8 4 9 9 4 8 4 9 9 6 6 6 6 6 6 6 6 6 6 6 6 6 6 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	2022	1,365	100	114	92	13		15		2,425	19	313	13	430	10	40		4,233	129	481	106
4 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	2023	1,956	96	61	06	13		15		2,425	19	313	13	430	10	40		4,825	124	428	104
5 2 2 2 2 2 2 4	2024	2,242	173	25	86	13		15		2,425	19	313	15	430	10	40		5,111	202	424	114
6 2376 155 69 153 18 - 30 2276 18 16 510 10 30 5680 320 217 10 2276 196 88 16 510 10 30 5680 320 217 229 7 24208 21 62 196 88 18 510 10 30 5266 377 229 8 2450 2276 196 88 18 510 10 30 5,169 452 229 1 2366 21 21 16 88 18 16 510 10 30 5,169 452 229 1 2,369 16 88 18 510 10 30 5,413 570 229 229 2,369 11 12 2 30 2,430 160 86 20 30 10 40 40 40	2025	2,582	105	72	102	13		15		2,425	19	313	16	430	10	40		5,450	134	440	118
7 2,708 89 81 16 510 30 5512 504 229 81 16 510 30 5512 504 229 82 16 510 10 30 5512 504 229 229 228 16 510 10 30 5126 377 219 228 218 16 510 10 30 5102 377 219 228 228 18 510 10 30 5102 377 219 228 228 18 510 10 30 5102 377 219 218 210 10 30 5102 377 218 218 218 210 10 30 218 218 218 210 40 <th>2026</th> <td>2,876</td> <td>115</td> <td>69</td> <td>153</td> <td>18</td> <td></td> <td>30</td> <td></td> <td>2,276</td> <td>196</td> <td></td> <td>16</td> <td>510</td> <td>10</td> <td>30</td> <td></td> <td>5,680</td> <td>320</td> <td>217</td> <td>169</td>	2026	2,876	115	69	153	18		30		2,276	196		16	510	10	30		5,680	320	217	169
2.452 171 78 18 2.276 196 88 18 510 10 30 5.256 377 219 2.365 2.365 2.46 18 2.276 196 88 18 510 10 30 5.256 377 2.29 2.365 1.26 1.26 1.2 30 2.276 196 88 19 10 40 6.473 5702 2.29 2.860 1.11 199 87 1.2 3 2.490 160 66 20 340 10 40 40 5.767 2.89 35 2.915 1.14 1.2 1.2 3 2.490 160 66 20 340 10 40 40 5.767 28 35 3.103 1.34 1.73 2.24 1.2 2.490 160 66 20 340 10 40 5.945 303 309 3.103 </th <th>2027</th> <td>2,708</td> <td>299</td> <td>81</td> <td>167</td> <td>18</td> <td></td> <td>30</td> <td></td> <td>2,276</td> <td>196</td> <td>88</td> <td>16</td> <td>510</td> <td>10</td> <td>30</td> <td></td> <td>5,512</td> <td>504</td> <td>229</td> <td>183</td>	2027	2,708	299	81	167	18		30		2,276	196	88	16	510	10	30		5,512	504	229	183
9 2.365 2.46 81 2.77 18 2.77 18 2.77 18 2.77 18 2.77 196 88 18 6.10 10 30 5.169 452 2.29 1 2.603 385 125 145 18 2.490 160 66 20 340 10 40 5.752 280 375	2028	2,452	171	71	189	18		30		2,276	196	88	18	510	10	30		5,256	377	219	208
0 2.609 3.65 1.25 1.65 1	2029	2,365	246	81	277	18		30		2,276	196	88	18	510	10	30		5,169	452	229	295
1 2,860 111 199 87 12 - 30 2,490 160 66 20 340 10 40 40 5,702 280 335 336 2 10 12 1 2 30 2,490 160 66 20 340 10 40 40 5,757 316 447 447 3 3,103 13 12 2 340 160 66 20 340 10 40 40 5,757 303 309 4 3,052 23 3,102 2 3,000 160 66 20 340 10 40 40 5,448 461 40 4 3,052 23 3,100 3,000 2,230 160 66 20 340 10 40 40 40 40 40 40 40 40 40 40 40 40 40 40	2030	2,609	365	125	115	18		30		2,276	196	88	19	510	10	30		5,413	920	272	135
2 2,915 146 31 121 12 2,430 160 66 20 340 10 40 40 5,757 316 447 447 3 103 113 12 2 30 2,430 160 66 20 340 10 40 40 5,451 308 309 309 4 3,102 23 3,102 24,90 160 66 20 340 10 40 40 5,845 389 399 4 3,052 23 3,102 20 3,102 20 3,002 340 10 40 40 5,441 3,48 3,98 4,0399 2,323 3,102 3,017 245 41,580 2,258 3,384 3,19 8,80 20 40 9,764 3,461 4,62 4,62 4,62 3,03 4,03 4,03 4,64 4,64 4,64 4,64 4,64 4,64	2031	2,860	111	199	87	12		30		2,490	160	99	20	340	10	40		5,702	280	335	106
3 3 103 1103 113 124 1 2 249 160 66 20 340 10 40 40 5,945 303 309 309 309 309 300	2032	2,915	146	311	121	12		30		2,490	160	99	20	340	10	40		5,757	316	447	140
4 3.052 2.85 331 12 - 30 2.490 160 66 20 340 10 40 40 40 40 80 360 30	2033	3,103	134	173	204	12		30		2,490	160	99	20	340	10	40		5,945	303	309	224
5 3.605 292 356 471 12 - 30 2,490 160 66 20 340 10 40	2034	3,052	218	263	331	12		30		2,490	160	99	20	340	10	40		5,894	388	399	320
40,989 2,932 3,180 3,017 245 . 415 . 47,580 2,258 3,384 319 8,800 250 650 . 97,614 5,440 7,629	2035	3,605	292	356	471	12	-	30		2,490	160	99	20	340	10	40		6,448	461	492	490
	tals	40,989	2,932	3,180	3,017	245		415	٠	47,580	2,258	3,384	319	8,800	250	650		97,614	5,440	7,629	3,336

Note: 1. Broadleaf data not available for Northern Ireland

Table 6: Annual forecast of Net Realisable Volume by harvest type (000 m^3 overbark).

r 1st Thin 2nd Thin 3rd + Sub Clearfell Thinnings Clearfell Clearfel			Private Sector ROI	ector ROI		Private Sector NI	ctor NI	Coillte	Ite	DARD FS	FS	Te	Totals
6 261 65 109 490 2 12 511 7 248 65 109 436 2 12 559 8 216 65 17 445 2 12 559 9 216 263 116 458 2 12 559 10 218 261 112 666 2 12 559 1 212 268 116 172 4 24 611 2 20 266 108 1087 4 24 611 3 191 231 277 1,503 4 24 611 4 154 216 272 245 4 611 4 154 248 24 611 5 231 243 2602 4 611 6 142 24 24 611 142 23	Year	1st Thin	2nd Thin	3rd + Sub	Clearfell	Thinnings	Clearfell	Thinnings	Clearfell	Thinnings	Clearfell	Thinnings	Clearfell
248 65 109 438 2 12 525 8 251 253 166 445 2 12 553 9 216 253 166 458 2 12 558 1 212 253 116 772 4 24 611 2 220 256 108 1087 4 24 611 2 220 256 108 1087 4 24 611 4 154 216 238 1963 4 24 611 5 142 226 2246 4 24 611 6 135 231 243 2602 5 43 563 7 125 204 274 2622 5 43 563 8 136 234 5 43 563 9 106 142 262 43	2016	261	55	109		2	12	511	1,994	30	490	896	2,986
251 55 117 445 2 12 513 9 215 253 115 445 2 12 513 10 218 261 115 656 2 12 529 1 212 259 116 772 4 24 611 2 220 256 116 172 4 24 611 4 154 216 238 1,963 4 24 611 4 154 216 238 1,963 4 24 611 5 142 266 24 611 611 6 135 234 6 43 583 7 165 284 2 43 583 8 106 142 266 43 583 9 106 142 266 43 583 9 106 128 <	2017	248		109		2	12	525	2,042	30	490	086	2,981
9 216 253 156 458 2 12 529 0 218 261 112 656 2 12 659 2 220 256 116 772 4 24 611 3 191 231 1,087 4 24 611 4 144 24 24 611 6 142 24 611 611 7 142 266 4 24 611 8 142 243 2602 5 43 683 9 142 24 24 611 611 1 142 262 5 43 683 9 146 24 4 24 611 1 16 189 272 2,340 5 43 683 1 101 130 238 2,787 5 43 683 <	2018	251	55	117	445	2	12	513		30	490	896	3,046
218 261 112 666 2 12 526 112 263 116 1772 4 24 611 2 20 226 108 1087 4 24 611 3 191 231 277 1,503 4 24 611 4 154 216 238 1,963 4 24 611 5 142 276 248 2,245 4 24 611 6 135 231 243 2,662 5 43 5,83 7 125 204 274 2,662 5 43 5,83 8 165 224 5 43 5,83 9 105 142 2,82 2,404 5 43 5,83 1 101 130 2,78 5 43 5,83 1 102 224 5 43 5,83	2019	215		156	458	2	12	529		30	490	1,185	3,125
212 259 116 772 4 24 611 220 256 108 1,087 4 24 611 4 154 216 277 1,603 4 24 611 5 119 231 277 1,963 4 24 611 6 1142 226 238 1,963 4 24 611 7 125 248 2,246 4 24 611 8 135 204 274 2,662 5 43 583 9 16 273 2,662 5 43 583 9 16 142 2,84 5 43 583 9 16 142 2,86 5 43 583 10 10 130 2,38 2,764 5 43 583 1 101 130 2,38 2,787 5 3	2020	218		112		2	12	526		30	490	1,149	3,305
220 226 108 1087 4 24 611 3 191 231 277 1,503 4 24 611 4 144 24 24 611 611 6 142 226 2245 4 24 611 7 128 243 2,245 4 24 611 8 143 243 2,662 5 43 683 9 145 274 2,662 5 43 683 9 166 282 2,340 5 43 683 9 166 142 2,464 5 43 683 1 101 130 238 2,767 5 43 683 1 101 130 238 2,787 5 37 523 2 10 19 20 3,242 5 37 523 4	2021	212		116		4	24	611	2,146	30	450	1,232	3,392
3 191 231 277 1,503 4 24 611 4 154 216 238 1,563 4 24 611 6 145 276 248 2,245 4 24 611 6 135 231 2,465 6 43 683 683 7 125 204 274 2,602 6 43 683 8 16 274 2,662 5 43 683 9 16 124 2,642 5 43 683 9 106 129 272 2,464 5 43 683 1 101 130 2,78 5 43 683 1 101 130 2,78 5 37 5,23 2 2 102 3,242 5 37 5,23 4 4 106 190 3,61 3,61 </th <th>2022</th> <td>220</td> <td>256</td> <td>108</td> <td>Ì</td> <td>4</td> <td>24</td> <td>611</td> <td>2,146</td> <td>30</td> <td>450</td> <td>1,228</td> <td>3,707</td>	2022	220	256	108	Ì	4	24	611	2,146	30	450	1,228	3,707
4 154 216 238 1,963 4 24 611 6 142 226 2246 4 24 611 7 126 204 274 2,662 5 43 683 8 97 165 282 2,340 5 43 683 9 106 142 278 2,706 5 43 683 9 106 142 278 2,706 5 43 683 1 101 130 278 2,706 5 43 683 2 90 94 211 3,098 5 37 523 4 52 106 192 3,516 5 37 523 4 41 106 192 3,618 6 37 523 4 52 106 192 3,618 6 37 523 4 41	2023	191	231	277	1,503	4	24	611	2,146	30	450	1,345	4,123
6 142 226 248 2245 4 24 61 6 135 231 234 2562 5 43 683 7 126 274 2662 5 43 683 9 146 284 2340 5 43 683 10 166 182 278 2,464 5 43 683 1 101 130 278 2,767 5 43 683 2 101 130 238 2,787 5 43 623 3 7 6 22 2,787 5 43 623 4 5 2 43 5 37 523 4 5 105 192 3,516 5 37 523 4 5 106 192 3,618 5 37 523 4 4 4 5 37 <th>2024</th> <td>154</td> <td>216</td> <td>238</td> <td>Ĺ</td> <td>4</td> <td>24</td> <td>611</td> <td>2,146</td> <td>30</td> <td>450</td> <td>1,253</td> <td>4,583</td>	2024	154	216	238	Ĺ	4	24	611	2,146	30	450	1,253	4,583
(436) (231) 243 2602 5 43 583 7 (125) (204) (274) (2652) 5 43 583 8 97 (166) 282 2,340 5 43 583 9 (106) (142) 278 2,464 5 43 583 1 (101) (130) 272 2,706 5 43 583 2 90 94 211 3,098 5 37 523 3 75 96 202 3,242 5 37 523 4 52 105 192 3,515 5 37 523 4 41 3,008 5 37 523 4 21 3,008 5 37 523 4 21 3,008 5 37 523 4 41 3,008 5 37 523	2025	142		248		4	24	611	2,146	30	450	1,261	4,865
7 125 204 274 2,682 5 43 583 8 97 165 282 2,340 5 43 583 9 106 129 272 2,706 6 43 583 1 101 130 278 2,787 5 37 523 2 90 94 2,18 5 37 523 3 75 96 202 3,242 5 37 523 4 52 105 192 3,515 5 37 523 4 52 40 3,88 5 37 523 3 41 106 192 3,88 5 37 523 4 41 106 190 4,386 5 37 523	2026	135		243		5	43			20	230	1,218	5,152
8 97 165 282 2.340 5 43 583 9 105 142 286 2.3464 5 43 583 1 106 129 272 2.706 5 43 583 2 10 130 238 2.787 5 43 583 3 7 6 34 2.787 5 43 583 4 52 90 94 2.11 3.048 5 37 523 4 52 105 192 3.515 5 37 523 5 41 106 192 3.616 5 37 523 5 41 106 30 3.646 38 5 37 523 4 22 43 34 80 41 41 41	2027	125		274		5	43		1,976	20	230	1,211	5,202
9 105 142 258 2,464 5 43 583 10 106 129 272 2,706 5 43 583 1 101 130 238 2,706 5 37 523 2 90 94 211 3,098 5 37 523 4 52 105 122 3,742 6 37 523 4 52 105 192 3,515 5 37 523 4 41 106 190 4,386 5 37 523 5 41 106 190 3,486 5 37 523 6 41 106 190 3,486 5 37 523 8 41 106 190 3,848 80 80 1141 1414	2028	26	165	282		5	43			20	230	1,151	4,890
0 106 129 272 2,706 5 43 583 1 101 130 273 2,787 5 37 553 2 90 94 211 3,098 5 37 523 4 52 105 192 3,542 5 37 523 5 41 106 192 3,516 5 37 523 5 41 106 190 3,86 5 37 523 6 41 106 190 3,86 5 37 523 8 41 106 39 3,86 5 37 523 9 41 3,000 30 3,86 5 37 523	2029	105		258		5	43	583	1,976	20	230	1,113	5,014
1 101 130 238 2.787 5 37 523 2 90 94 211 3,098 5 37 523 4 52 105 192 3,542 5 37 523 5 4 52 105 192 3,515 5 37 523 5 41 106 190 4,386 5 37 523 5 41 106 190 4,386 5 37 523 3 41 3,496 30 40 41,41 40 41,41	2030	106		272		2	43			20	230	1,115	5,256
2 90 94 211 3,098 5 37 523 3 75 96 202 3,242 5 37 523 4 52 105 192 3,515 5 37 523 5 41 106 190 4,386 5 37 523 5 37 3,484 80 481 1141 1414	2031	101	130	238		9	37	523		20	370	1,017	5,388
3 75 96 202 3,242 5 37 523 4 52 105 192 3,515 5 37 523 5 41 106 190 4,386 5 37 523 5 41 106 190 4,386 5 37 523 30 31 32 34 523 41 523	2032	06	94	211	3,098	9	37	523		20	370	943	669'5
4 52 105 192 3,515 5 37 523 5 41 106 190 4,386 5 37 523 31 31 32 34 52 37 62 32 4 41 106 39 34 40 101 40 31 31 37 32 32 32 32 32	2033	22		202		5	37	523	2,194	20	370	920	5,843
3 140 106 190 4,386 5 37 523 55 3140 4,191 4	2034	25	105	192	3,515	5	37	523		20	370	868	6,116
3.040 3.279 3.950 39.848 80 580 11.191	2035	14	106	190	4,386	9	37	523		20	370	988	286'9
and a section an	Totals	3,040	3,279	3,950	39,848	08	280	11,191	42,031	200	9,200	22,040	91,659

Private ROI includes broadleaves Notes:

Breakdown by thinning number not available for Coillte or Northern Ireland 6, ε,

Coillte excludes broadleaves

Table 7: Annual forecast of harvest area by harvest type (ha).

		Private Sector ROI	ector ROI		NI Private Sector	Sector	Coillte	llte	DARD FS	FS	Tot	Totals
Year	1st Thin	2nd Thin	3rd + Sub	Clearfell	Thinnings	Clearfell	Thinnings	Clearfell	Thinnings	Clearfell	Thinnings	Clearfell
2016	6,201	1,286	1,139	902	20	30	12,211	5,627	740	1,020	21,627	7,582
2017	5,942	1,502	1,105	770	20	30	12,851	5,297	740	1,020	22,190	7,117
2018	6,187	1,324	1,441	837	20	30	13,160	5,109	092	1,020	22,911	966'9
2019	5,250	5,786	2,323	880	20	30	14,071	5,438	150	1,020	28,229	7,368
2020	5,579	6,030	1,289	1,239	20	30	13,981	5,389	750	1,020	27,679	7,678
2021	5,314	5,988	1,457	1,547	100	09	16,448	5,863	099	940	29,958	8,410
2022	5,506	6,013	1,055	2,093	100	09	16,448	5,863	099	940	29,772	8,956
2023	4,804	5,499	6,603	2,871	100	09	16,448	5,863	099	940	34,104	9,734
2024	3,785	5,230	5,531	4,038	100	09	16,448	5,863	099	940	31,744	10,901
2025	3,554	5,527	5,980	4,393	100	09	16,448	5,863	099	940	32,259	11,256
2026	3,314	5,605	6,095	5,266	125	107	15,125	5,800	009	1,110	30,865	12,283
2027	2,961	4,935	6,429	5,772	125	107	15,125	5,800	009	1,110	30,175	12,789
2028	2,242	3,852	6,824	5,085	125	107	15,125	5,800	009	1,110	28,768	12,102
2029	2,346	3,377	6,105	5,680	125	107	15,125	5,800	009	1,110	27,678	12,697
2030	2,503	3,065	6,684	5,875	125	107	15,125	5,800	009	1,110	28,102	12,892
2031	2,375	3,030	5,592	2,867	125	92	14,634	7,512	089	150	26,285	14,221
2032	2,124	2,135	4,560	6,561	125	92	14,634	7,512	089	750	24,108	14,915
2033	1,754	2,067	4,209	7,104	125	92	14,634	7,512	089	150	23,320	15,458
2034	1,266	2,334	3,641	8,152	125	92	14,634	7,512	230	750	22,530	16,506
2035	1,021	2,445	3,687	10,398	125	92	14,634	7,512	530	750	22,443	18,752
Totals	74,027	77,031	81,750	85,332	2,000	1,445	297,312	122,736	12,630	19,100	544,749	228,613

Private ROI include broadleaves Notes:

Breakdown by thinning number not available for Coillte or Northern Ireland 6, ε,

Data for ROI are based on net harvest area

Table 8: Annual forecast of Net Realisable volume by county and Northern Ireland (000 m3 overbark).

	2016		2017	2018	18	2019	6	2020	0:	2021	1	2022		2023		2024		2025	
County / Northern Non Coillte Coillte Ireland	Non Coillte Coillte	Non Coi	Non Coillte	Non Coillte Coillte		Non Coillte Co	Coillte	Non Coilite Coilite		Non Coillte Coillte	llte								
Carlow	2	25	3 2	28 6	69	11	40	6	27	7	43	25	43	21	43	31	43	46	43
Cavan	17			47 24	54	39	89	38	92	47	36	92	36	25	36	51	36	110	36
Clare			Ì	171 47	197	7.1	198	109	182	132	208	121	208	139	208	198	208	207	208
Cork	111 3	384	62 38	382 68	668	100	392	117	374	140	330	159	330	207	330	192	330	252	330
Donegal	25 1	143		153 24	156	52	158	46	169	63	240	62	240	22	240	1.2	240	72	240
Dublin	3	13		21 4	2	2	18	9	16	2	15	41	15	11	15	-	15	18	15
Galway	73 2	223	68 261	31 51	218	48	199	82	222	106	238	148	238	204	238	152	238	282	238
Kerry			45 14	148 70	172	96	168	120	127	117	147	162	147	172	147	161	147	252	147
Kildare		23		19 13	15	24	7	12	11	19	24	34	24	31	24	36	24	25	24
Kilkenny				70 18	02	41	66	25	62	25	82	36	82	77	82	96	82	29	82
Laois	25 1	106		31	140	35	144	17	96	35	147	31	147	61	147	131	147	87	147
Leitrim			46 9	95 80	9/	23	75	117	85	22	82	82	82	135	82	127	82	150	82
Limerick	29	55		55 18	64	27	103	28	119	59	89	39	89	63	89	83	89	75	89
Longford			10 2	22 13	11	14	8	19	10	42	13	26	13	40	13	32	13	27	13
Louth	12	7	2 2	29 8	8	3	8	8	8	8	15	4	15	3	15	4	15	4	15
Mayo		20	27 8		25	53	29	46	26	41	26	85	26	94	26	167	26	160	97
Meath	25	0		13 12	4	8	8	6	14	18	4	15	4	18	4	18	4	23	4
Monaghan	4	18			17	7	21	14	27	8	22	12	22	13	22	16	22	20	22
Offaly		45	26 3		38	20	99	43	31	28	72	24	72	88	72	89	72	96	72
Roscommon		44		64 25	69	48	75	93	48	107	45	104	45	157	45	167	45	154	45
Sligo				93 16	68	33	82	27	80	41	85	48	82	82	85	146	85	86	85
Tipperary	72 2	232	58 17	176 107	198	86	149	99	210	80	218	124	218	149	218	208	218	118	218
Waterford				134 36	141	28	170	38	180	42	163	53	163	135	163	93	163	231	163
Westmeath	43	41		20 33	33	28	30	35	13	19	19	26	19	42	19	51	19	43	19
Wexford		36			98	25	88	44	81	20	98	69	98	44	98	41	98	42	98
Wicklow	52 2	242 1:	132 24	242 76	246	06	254	88	309	22	259	102	259	102	259	232	259	208	259
Northern Ireland	534	5	134	534		534		534		518		518		518		518		518	
Totals	1,450 2,5	2,509 1,3	1,393 2,570	70 1,402	2,616	1,616	2,698	1,781	2,675	1,877	2,759	2,189	2,759	2,721	2,759	3,089	2,759	3,379	2,759

Coillte volumes exclude broadleaves Notes: Northern Ireland volumes are not available at a county level

Northern Ireland volumes do not include broadleaves vi ω 4;

Due to computational methodology, the county totals may not always exactly match the national or entity totals

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	2006	6	2002	8000	8	2029		2030		2034		2032	· ·	2033	30	2034	20135		Total 2016 - 2035	2035
County / Northern					Τ				Т					2		Γ		+	01071	
Ireland	Non Coillte Coillte	Non Coillte Coillte	Coillte	Non Coillte Coillte		Non Coillte Coil	Ite	Non Coillte Coillte		Non Coillte Coillte		Non Coillte Coillte	Non Coillte Coillte	e Coillte	Non Coillte Coillte		Non Coillte Coillte	Non Coillte	oillte Coillte	llte
Carlow	37	36 40	36	18	36	25	36	33	36	18	33	17	33 25	2 33	18	33	17	33	412	739
Cavan	102	45 69	45	82	45	88	45	98	45	109	46	107	46 186		93	46	84	46	1,489	921
Clare		204 263	204	219	204	235	204	235	204	206	201	277 2		2 201	2	2	420	201	3,749	3,987
Cork	314 3	341 316	341	280	34	224	341	294	24.	330	378	385 3.	378 278		320	378	487	378	4,636	7,172
Donegal	106	182 107	182	88	182	114	182	105	182	119	224	106 2:	224 152	2 224	350	224	251	224	1,995	4,008
Dublin	2	16 13	16	4	16	10	16	9	16	21	£	2	11 45	11	30	1	15	11	220	279
Galway	189 2	289 159	289	211	289	230	289	223	289	262	271	264 2	271 167	7 271	271	271	368	271	3,557	5,112
Kerry		115 218	115	197	115	270	115	276	115	284	147		147 425	147		147	649	147	4,712	2,835
Kildare	23	12 33	12	24	12	46	12	45	12	40	8	52	8 21	1		8	73	80	658	301
Kilkenny	111	70 101	02	121	70	77	02	146	02	145	73	103	73 108	8 73	120	73	131	73	1,587	1,499
Laois	185	113 185	113	194	113	130	113	109	113	126	133		133 89	-		133	196	133	1,978	2,558
Leitrim	200	123 176		119	123	200	123	215	123	244	26		97 198		157	26	255	26	2,822	1,920
Limerick			80	96	80	146	80	68	80	133	06	66	90 195	2 30	Ì	06	173	06	1,675	1,587
Longford	22	18 42	18	7.1	18	22	18	61	18	42	6	35	6 6	6 2	69	6	22	6	792	290
Louth	4	9 9	9	3	9	4	9	7	9	14	3	7	3 7	7		3	14	3	126	181
Mayo	146	119 193	119	104	119	124	119	176	119	160	160	218 16	160 194	160	191	160	240	160	2,477	2,252
Meath	15	3 29	3	36	က	21	က	19	3	23	2	14	2 88	3	29	2	47	2	543	84
Monaghan	24	20 41		8	20	56	20	16	20	19	22	18	22 23	3 22		22	24	22	385	422
Offaly				113	36	86	36	111	36	38	33		Ì				106	33	1,472	915
Roscommon	159	56 194	99	166	99	137	99	149	26	141	23	188	53 131	1 53	181	23	169	53	2,522	1,064
Sligo		85 126		82	85	06	85	132	85	72	2.2	102			203		153	2.2	1,664	1,648
Tipperary	249 1	186 300	186	301	186	219	186	273	186	322	210	201 2	210 305	5 210	211	210	337	210	3,789	4,035
Waterford	122			88	127	134	127	123	127	115	170	159 1.	170 127	170	110	170	132	170	2,024	3,088
Westmeath	48	15 48	15	09	15	89	15	89	15	75	6	26	9 113	9	94	6	26	6	1,064	355
Wexford	52	80 71	80	69	80	99	80	83	80	53	26	53	59 52	2 59	73	69	72	26	1,068	1,496
Wicklow	187	185 196	185	108	185	133	185	131	185	149	201	169 2	201 155	5 201	156	201	161	201	2,704	4,521
Northern Ireland	269	598		298		298		598		422		422	422	2	422		422		10,360	
Totals	3,810 2,561	3	2,561	3.481	2,561	3,567	2,561	3.812	2.561		2.719	3,915 2,719	4	6 2,719	4.	2,719		2.719	60.478	53,269

Table 9: Annual forecast of Net Realisable Volume, 7-13 cm by county and Northern Ireland (000 m² overbark).

	2016	9	2017	117	2018	18	2019	6)	2020	20	2021	21	20	2022	2023		20	2024	2025	25
County / Northern Non Coilite Coilite	Non Coilite C		Non Coillte Coillte		Non Coillte Coillte	Coillte	Non Coillte Coillte		Non Coillte Coillte		Non Coillte Coillte	Coillte	Non Coilite Coilite	Coillte	Non Coillte Coillte	Coillte	Non Coilite Coilite	Coilite	Non Coillte Coillte	Coillte
Sarlow	3	8	2	9	2	10	2	9	Э	9	3	7	5	7	4	7	2	2	7	7
Savan	1	6	12	13	15	13	41	15	15	41	19	10	22	10	18	10	16	10	27	10
Clare	30	35	19	35	25	35	98	31	39	28	33	33	37	33	42	33	37	33	39	33
Pork	36	87	32	2	32	49	14	75	52	74	53	71	54	1.2	62	71	52	71	92	71
Jonegal	11	28	23	29	17	30	25	32	30	30	35	35	26	35	24	35	34	35	29	35
Oublin	2	2	2	3	2	-	2	က	2	2	-	က	2	3	2	Э	-	3	4	က
Salway	28	22	29	69	28	20	27	48	33	23	33	20	40	20	49	20	36	20	58	20
Kerry	34	31	28	21	35	24	4	24	40	41	47	21	69	21	54	21	48	21	25	21
Kildare	3	4	2	3	4	က	2	2	2	-	9	4	6	4	8	4	7	4	5	4
Kilkenny	14	19	13	19	12	15	16	21	12	16	7	20	16	20	21	20	18		17	20
-aois	10	25	15	24	13	29	13	28	o	41	13	27	12	27	41	27	17	27	14	27
-eitrim	21	20	20	20	58	17	20	19	31	16	52	17	28	17	28	17			27	17
_imerick	12	18	8	16	10	16	15	18	17	20	19	16	22	16	21	16	24	16	27	16
_ongford	9	7	7	2	7	3	9	2	7	2	12	4	8	4	12	4		4	8	4
-outh	3	1	2	Э	2	1	7	1	3	1	3	2	2	2	2	2			2	2
Mayo	19	30	15	22	17	12	53	16	27	21	22	20	36	20	34	20		20	40	20
Weath	2	0	10	2	9	0	9	1	7	1	10	1	7	1	2	1	10	1	6	-
Monaghan	3	4	3	5	4	4	3	7	4	8	5	5	5	5	4	5	5	5	9	2
Offaly	11	8	12	7	8	7	11	9	13	9	13	10	14	10	18	10	19	10	20	10
Roscommon	15	10	14	11	17	14	26	13	23	11	27	6	29	6	41	6	33	6	34	6
Sligo	11	13	6	15	6	13	16	15	14	13	17	16	15	16	22	16	23	16	23	16
Fipperary	22	22	25	34	30	43	33	30	28	41	31	48	36	48	36	48	40	48	32	48
Naterford	15	32	15	24	6	27	13	33	13	58	13	40	15	40	26	40	17	40	30	40
Nestmeath	12	3	8	3	14	3	14	3	14	1	13	3	13	3	16	3	14	3	12	3
Nexford	6	12	80	13	7	17	11	18	11	15	13	19	13	19	1	19	6	19	10	19
Nicklow	17	34	18	36	18	41	20	44	18	43	18	49	20	49	20	49	27	49	30	49
Northern Ireland	92		92		92		92		92		74		74		74		74		74	
Fotals	460	549	448	502	467	494	543	511	292	481	575	539	621	539	699	539	699	539	902	539

Coillte volumes exclude broadleaves Notes:

Northern Ireland volumes are not available at a county level

Northern Ireland volumes do not include broadleaves o, ω, 4,

Due to computational methodology, the county totals may not always exactly match the national or entity totals

	2026	126	20	2027	2028	82	2029	29	2030	30	2031	31	20	2032	20	2033
County / Northern Ireland	Non Coillte	Coillte	Non Coilite Coilite	Coillte	Non Coilte Coilte	Soillte	Non Coillte Coillte	Coillte	Non Coilite Coilite	Coillte	Non Coilte Coilte		Non Coillte Coillte	Coillte	Non Coilite Coilite	Coillte
Carlow	9	9	7	9	4	9	2	9	9	9	4	2	9	5	5	L
Cavan	21	9	18		20	9	23	9	16	9	16	4	18	4	20	L
Clare	40		42	27	40	27	42	27	46	27	31	28	39	28	41	L
Cork	92	73	89	73	29	73	54	73	29	73	99	62	99	62	25	L
Donegal	32	24	38	24	25	24	58	24	8	24	27	18	23	18	29	L
Dublin	-	4	2	4	2	4	3	4	2	4	3	2	2	2	2	L
Galway	37	46	38	46	98	46	4	46	48	46	42	40	4	40	29	L
Kerry	09	15	46	15	14	15	45	15	19	15	45	17	61	17	09	L
Kildare	12	3	8	3	2	3	2	3	10	3	9	2	11	2	2	
Kilkenny	26	14	21	14	22	14	91	14	87	14	20	11	18	11	21	L
Laois	24	22	26	22	23	22	20	22	16	22	16	22	17	22	12	L
Leitrim	32		29	18	25	18	33	18	27	18	22	12	19	12	21	
Limerick	31	15	19	15	22	15	82	15	24	15	22	15	19	15	24	
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Table 10: Annual forecast of Net Realisable Volume 14-19 cm, by county and Northern Ireland (000 m³ overbark).

	2016		2017	26	2018	2019		2020	03	2021	1	2022		2023		2024		2025
County / Northern Ireland	Non Coilite Coilite	Non Coill	Non Coilite Coilite	Non Coillte Coillte	Coillte	Non Coillte Coillte		Non Coillte		Non Coillte Coillte		Non Coilte Coilte		Non Coillte Coillte		Non Coillte Coillte	Non Coil	Non Coillte Coillte
Carlow	-	9	1 6	2	18	2	#	4	ω	2	14	8	4	7	14	6	,	16
Cavan	4	12	14			14	21	6	23	16	12	24	12	19	12	14	12	
Clare	11 5	56 10	10 53	13	29	25	29	40	51	39	72	40	72	51	72		72 (0 72
Cork	21 11	112 13	12 89	13	103	23	106	34	108	45	111	52	111	99	111	61 11	111	3 111
Donegal	5	39	3 41	4	45	17	46	11	46	20	82	19	82	20	82		82	25 82
Dublin	-	3	1	0	-	-	2	-	4	0	4	2	4	2	4	0	4	8
Galway	7 71	70 18	15 86	15	62	16	09	59	02	42	83	62	83	80	83			114 83
Kerry	11	49	9 33	14	44	28	36	27	36	41	51	99	51	29	51	28	51 10	
Kildare	2	5	2 4	2	4	5	2	2	3	5	8	6	8	8	8	8		9
Kilkenny	8		6 19	2	22	13	33	6	17	10	28	12	78	27	28			
Laois	2 7	25	9 29	10	44	12	48	9	25	13	48	11	48	19	48	33 4	48	22 48
Leitrim	17 2		13 26	30	22	19	21	47	22	28	26	31	56	47	56			
Limerick	9		2 14	4	20	6	31	8	33	8	23	13	23	23	23			
Longford	3	8	2 7	3	9	4	3	9	3	16	4	8	4	11	4	6	,	0 4
Louth	2	2	2 0	-	က	0	Э	2	2	2	4	-	4	0	4			4
Mayo	6 2	25 (6 28	9	16	17	19	14	36	13	34	31	34	36	34	99	34	59 34
Meath	က	0	4	2	-	-	2	-	4	2	-	4	-	2	-	2	-	1
Monaghan	+	4	2 5	-	2	-	9	4	80	2	7	4	7	4	7	2	7	2 9
Offaly	8 1	12	5 8	9	11	7	17	10	6	8	23	9	23	25	23		23	31 23
Roscommon	8 1	13	7 17	2	20	18	23	34	15	40	16	41	16	62	16	58	16	57 16
Sligo	8 1	18	6 26	4	56	11	25	8	23	14	58	19	53	35	58	47 2	59	35 29
Tipperary	18 6	67 18	15 45	23		31	46	17	09	27	7.1	36	1.1	47	7.1	28 2		45 71
Waterford	14 3	39 10	0 29	9	41	8	51	12	46	11	53	18	23	43	23	24 €	9 23	64 53
Westmeath	12	. 2	3 5	11	10	6	8	7	3	5	9	8	9	12	9	13	, 9	12 6
Wexford	9 1	11	7 17	8	24	16	28	14	24	11	59	16	59	18	53	9 2	29	3 29
Wicklow	13 5	52 18	8 54	18	73	26	74	17	78	22	84	29	84	33	84		84 6	63 84
Northern Ireland	214	214	4	214		214		214		178		178		178		178	17	8
Totals	433 69	969	8 672	426	758	548	784	286	755	624	925	738	925	944	925	360 096	925 1,147	7 925

Coillte volumes exclude broadleaves Notes:

Northern Ireland volumes are not available at a county level

Northern Ireland volumes do not include broadleaves o, ω, 4,

Due to computational methodology, the county totals may not always exactly match the national or entity totals

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	20	2026	2027	7.	2028	8	2029	6	2030		2031		2032	20	2033	2034	4	2035	7	Total 2016 - 2035	035
County / Northern Ireland	Non Coillte Coillte	Coilite	Non Coillte Coillte		Non Coillte Coillte		Non Coilite Coill	te	Non Coillte Coillte		Non Coilite		Non Coillte Coillte	Non Coillte Coillte	Coillte	Non Coilte Coilte		Non Coillte Coillte	Non Coillte	lte Coillte	e,
Carlow	17	10	17	10	9	10	8	10	13	10	9	8	2	8	80	S	8	9	8	130	207
Cavan	32	11	20	11	26	11	56	1	23	1	25	6	30	98	6	21	6	22	6	406	244
Clare	71	61	82	61	29	61	74	61	81	61	28	26	68		26	85	26	121	26	1,153	1,225
Cork	105	103	86	103	80	103	74	103	101	103	78	101	116	101		91	101	141	101	926,	2,094
Donegal	35	29	14	29	28	29	37	29	39	29	40	22	35	57 52	22	111	25	80	25	646	1,203
Dublin	0	4	2	4	-	4	ဇ	4	2	4	9	က	0	3 10	3	9	က	2	3	51	78
Galway	65	87	22	87	65	87	69	87	82	87	06	9/	88	76 50	92	81	9/	119	92	1,211	1,578
Kerry	101	39	17	39	99	39	2	39	86	39	83	39	142	39 137		116	39	185	39	1,491	848
Kildare	15	4	6	4	8	4	11	4	17	4	8	2	18		2	14	2	25	2	179	06
Kilkenny	41	20	32	20	14	20	23	20	22	20	37	19	32	19 37		29	19	38	19	503	445
Laois	53	31	25	31	55	31	37	31	33	31	32	38	36			31	38	20	38	549	759
Leitrim	62	32	28	32	39	32	22	32	22	32	45	22	39	22 44	22	38	22	09	22	815	519
Limerick	44	23	21	23	58	23	47	23	33	23	39	23	30			40	23	20	23	518	457
Longford	18	4	14	4	15	4	18	4	22	4	12	3	10	3 16	3	19	3	15	3	230	83
Louth	1	2	1	2	0	2	1	2	2	2	3	1	2	1 2	1	1	1	3	1	25	54
Mayo	53	39	73	39	35	39	44	39	89	39	51	46	74	46 62	46	99	46	81	46	829	721
Meath	4	-	6	-	6	-	80	-	4	-	2	-	4	1 18	-	24	-	15	-	138	23
Monaghan	4	5	7	2	1	2	4	2	3	2	2	4	2	4 7	4	8	4	7	4	92	110
Offaly	42	11	20	11	27	7	28	1	35	1	10	10	26	10 30	10	35	10	32	10	443	277
Roscommon	51	16		16	45	16	39	16	23	16	38	11	26	11 38	11	47	11	38	11	802	301
Sligo	21	26	36	56	27	26	27	26	48	56	17	21	25	21 24		09	21	46	21	519	200
Tipperary	92	22	91	22	83	22	0.2	22	87	22	96	26	62	22 22	99	09	99	96	99	1,126	1,190
Waterford	38	37	44	37	58	37	41	37	42	37	31	46	46			32	46	39	46	593	887
Westmeath	15	5	15	2	21	2	26	2	20	2	25	3	20	3 30	3	23	3	30	3	315	6
Wexford	19	22	25	22	18	22	22	22	31	22	12	16	16	16 15	16	23	16	25	16	327	439
Wicklow	22	22	99	22	32	22	30	22	35	22	39	26	22	56 42	99	40	99	48	99	731	1,305
Northern Ireland	193		193		193		193		193		122		122	122		122		122		3,535	
Totals	1,241	764	1,242	764	1,056	764	1,098	764	1,277	764	1,012	725 1,	1,184	1,140	725	1,226	725	1,498	725 1	18,767	15,735

Table 11. Annual forecast of Net Realisable Volume, 20 cm+ by county and Northern Ireland (000 m³ overbark).

	20	2016	2017		201	18	2019	6	2020	20	2021	21	2022		2023		2024	24	2025	5
County / Northern Ireland	Non Coillte	Coillte	Non Coillte Coillte		Non Coillte Coillte	Coillte	Non Coillte Coillte		Non Coillte		Non Coillte Coillte	Coillte	Non Coilite Coilite		Von Coilite Coilite	Soillte	Non Coillte Coillte		Non Coillte Coillte	Soillte
Carlow	-	12	0	16	2	30	7	24	2	13	2	22	12	22	6	22	17	22	23	22
Cavan	2	20	80	19	4	24	7	32	14	39	£	14	30	41	16	14	20	4	49	14
Clare	2	83	10	83	8	103	10	109	30	104	29	103	44	103	46	103	86	103	108	103
Cork	54	185		229	23	229	35	211	30	193	41	148	25	148	62	148	82	148	105	148
Donegal	2	77	0	83	2	81	10	80	2	93	8	123	16	123	13	123	13	123	18	123
Dublin	0	8	9	13	2	-	2	6	3	10	0	8	10	8	7	8	0	8	9	8
Galway	29	86	24	107	8	106	5	91	20	100	25	105	46	105	75	105	29	105	109	105
Kerry	9	92	8	66	22	104	23	109	52	74	58	75	47	75	52	75	99	75	96	75
Kildare	9		4	12	7	8	13	3	5	7	8	12	17	12	15	12	21	12	13	12
Kilkenny	4	33	3	32	1,	32	12	45	3	29	4	35	6	35	29	35	49	35	21	35
Laois	7	25	11	26	6	89	10	29	2	99	6	72	8	72	28	72	81	72	12	72
Leitrim	11	36	12	20	22	36	15	32	39	47	24	39	24	39	29	39	29	39	73	39
Limerick	8	22		25	4	28	3	54	3	29	2	30	4	30	20	30	34	30	21	30
Longford	8	16	0	10	3	6	3	4	9	5	13	2	10	2	17	2	14	2	10	5
Louth	7	4	-	20	5	4	1	4	3	2	3	8	1	8	1	8	2	8	1	8
Mayo	6	16	9	36	2	24	8	32	2	39	9	43	18	43	24	43	34	43	19	43
Meath	41	0	24	7	4	2	0	2	0	6	3	2	8	2	9	2		2	8	2
Monaghan	1	10	4	7	7	8	2	8	9	11	2	10	7	10	9	10	9	10	7	10
Offaly	21	25		21	2	20	3	42	20	18	7	40	4	40	45	40		40	44	40
Roscommon	4	21	3	36	1	30	9	39	35	22	40	20	33	20	54	20	92	20	63	20
Sligo	8	37	2	25	2	20	7	42	4	44	10	40	13	40	58	40	92	40	40	40
Tipperary	32	110	19	26	54	94	34	73	11	110	22	66	12	66	29	66	111	66	41	66
Waterford	31	93	35	81	20	73	7	98	13	105	19	69	20	69	29	69	52	69	137	69
Westmeath	19	31	10	11	8	20	5	20	15	6	2	10	9	10	14	10	23	10	19	10
Wexford	16	13		49	16	45	25	43	19	43	26	38	30	38	15	38	22	38	19	38
Wicklow	21		96	152	40	132	44	136	54	188	37	127	53	127	49	127	157	127	115	127
Northern Ireland	228		228		228		228		228		266		266		266		266		266	
Totals	556	1,265	222	1,396	209	1,363	526	1,403	629	1,439	678	1,295	830	1,295	1,108	1,295	1,460	1,295	1,526	1,295

Coillte volumes exclude broadleaves Notes:

Northern Ireland volumes are not available at a county level

Northern Ireland volumes do not include broadleaves o, ω, 4,

Due to computational methodology, the county totals may not always exactly match the national or entity totals

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	2026	98	2027		2028		2029	6	2030		2031		2032	:2	2033	3	2034	4	2035	.2	Total 2016 - 2035	6 - 2035
County / Northern Ireland	Non Coillte Coillte		Non Coillte		Non Coillte Coillte		Non Coillte	Coillte														
Carlow	20	20	22	20	8	20	12	20	13	20	6	20	8	20	12	20	6	20	2	20	195	407
Cavan	48	28	31	28	36	28	14	28	47	28	89	33	29	33	130	33	29	33	20	33	735	208
Clare	118	116	144	116	112	116	118	116	107	116	116	117	149	117	154	117	156	117	240	117	1,832	2,159
Cork	133	165	150	165	143	165	96	165	126	165	195	215	205	215	137	215	170	215	268	215	2,139	3,685
Donegal	33	66	27	66	35	66	49	66	32	66	51	149	48	149	20	149	179	149	126	149	744	2,270
Dublin	-	8	o	80	-	80	4	80	2	80	12	2	0	2	30	2	20	2	9	2	121	145
Galway	98	156	99	156	110	156	117	156	93	156	129	42	132	75	88	154	152	154	197	154	1,571	2,578
Kerry	119	09	101	09	06	09	142	09	127	09	156	91	269	91	228	91	224	91	379	91	2,223	1,605
Kildare	26	2	16	2	6	2	28	2	18	2	26	4	22	4	11	4	31	4	31	4	325	153
Kilkenny	44	32	48	35	28	35	38	32	63	35	68	44	23	44	20	44	73	44	7.1	44	723	741
Laois	108	69	101	69	115	69	73	69	09	69	78	73	26	73	54	73	62	73	119	73	1,098	1,325
Leitrim	106	73	88	73	22	73	112	73	131	73	177	63	85	63	133	63	101	63	167	63	1,500	1,076
Limerick	29	42	27	42	44	42	1.2	42	32	42	72	53	51	23	115	53	73	53	96	23	747	817
Longford	24	6	14	6	45	6	24	6	27	6	21	3	16	3	42	3	40	3	31	3	369	133
Louth	-	2	ဇ	2	0	2	0	2	3	2	80	-	2	-	3	-	0	-	80	-	51	96
Mayo	09	09	61	09	42	09	47	09	92	09	74	98	93	96	87	98	88	98	104	96	893	1,135
Meath	4	-	7	-	15	-	3	-	8	-	11	-	3	-	61	-	22	-	20	-	221	4
Monaghan	15	12	28	12	15	12	17	12	6	12	6	16	8	16	10	16	31	16	12	16	198	230
Offaly	28	18	20	18	89	18	52	18	56	18	19	41	52	4	26	41	49	4	20	4	969	483
Roscommon	80	32	96	32	96	32	72	32	63	32	62	36	106	36	7.1	36	108	36	111	36	1,195	290
Sligo	43	45	20	45	34	45	45	45	28	45	45	44	49	44	20	44	118	44	82	44	804	869
Tipperary	105	86	157	86	171	86	107	86	138	86	177	125	104	125	196	125	120	125	194	125	1,911	2,090
Waterford	64	62	20	62	41	62	89	62	28	62	99	16	91	26	64	26	19	26	72	26	1,054	1,579
Westmeath	41	7	16	7	22	7	16	7	33	7	33	3	23	3	49	3	99	3	41	3	441	191
Wexford	41	43	30	43	39	43	28	43	37	43	31	33	28	33	26	33	34	33	30	33	502	759
Wicklow	105	93	92	66	99	66	78	93	75	93	98	115	98	115	91	115	96	115	82	115	1,515	2,438
Northern Ireland	328		328		328		328		328		254		254		254		254		254		5,380	
Totals	1,836	1,348	1,851	1,348	1,789	1,348	1,783	1,348	1,807	1,348	2,091	1,604	2,107	1,604	2,287	1,604	2,405	1,604	2,849	1,604	29,183	28,105

Table 12: Annual forecast of Net Realisable Volume, tip to 7 cm by county and Northern Ireland (000 m3 overbark).

	2016		2017		2018	18	20	2019	20	2020	2021	-	2022	22	2023		20	2024	2025	.5
County / Northern Ireland	Non Coillte Coillte		Non Coillte Coillte		Non Coillte	Coillte	Non Coillte Coillte	Coillte	Non Coillte Coillte	Coillte	Non Coillte Coillte		Non Coilte Coilte	Coillte	Non Coilite Coilite	Coillte	Non Coillte Coillte		Non Coillte	Soillte
Carlow	0	က	0	2	0	3	0	2	-	2	0	2	0	2	0	2	1	2	0	2
Cavan	0	က	0	4	-	4	0	4	0	4	-	4	0	4	-	4	0	4	2	4
Clare	0	9	0	7	0	11	-	8	0	8	0	7	-	7	-	7	0	2	0	7
Cork	2	56	2	19	+	20	-	22	2	25	2	21	1	21	2	21	2	21	1	21
Donegal	1	9	-	9	0	8	0	8	1	8	0	7	0	7	0	7	0	2	1	7
Dublin		-	0	-		0		-		-	0	-		-		-		-	0	-
Galway	2	1	3	15	2	14	3	14	2	16	3	14	2	14	3	14	2	14	3	14
Kerry	1	7	0	5	0	9	1	7	0	4	0	4	0	4	1	4	0	4	0	4
Kildare	0	-		-	0	+	0	-	0	0	0	-	0	-	0	-	0	-	0	-
Kilkenny	-	7	-	2	-	9	-	7	-	9	-	9	-	9	3	9	2	9	-	9
Laois	-	10	-	7	-	10	2	6	-	5	0	7	0	7	2	7	2	2	-	7
Leitrim	-	2		2	0	9	-	5	0	2		2	0	2	0	2	0	9		5
Limerick	-	7	0	9	0	9	-	5	2	7	-	2	2	2	_	2	1	9	-	5
Longford	0	2	0	-	0	1	0	1	0	1	0	1	0	1	-	1	0	1	0	1
Louth	0	0		0	-	0	0	0	0	0	0	0	-	0	0	0	-	0	0	0
Mayo	0	2	0	4	0	ε	0	4	0	4	0	9	0	9	0	9	0	9	0	9
Meath	-	0	-	0	-	0	-	0		0	-	0	0	0	0	0	0	0	0	0
Monaghan	0	2	0	1	0	1	0	2	0	3	0	2	0	2	-	2	0	2	0	2
Offaly	0	2	0	2	-	2	-	2	0	2	-	2	-	2		2	-	2	-	2
Roscommon	1	3	1	3	1	4	2	4	1	3	0	3	0	3	1	3	1	8	1	3
Sligo	-	က	0	3	0	3	-	4	-	3	0	4	0	4	-	4	1	4	0	4
Tipperary	-	16	2	6	-	15	2	10	-	14	2	13	4	13	3	13	-	13	-	13
Waterford	-	10	-	9	-	8	-	10	-	6	-	11	-	+	2	11	2	7	-	11
Westmeath	0	-	0	-	0	+	-	-	0	0	0	-	0	-	_	-	0	-	0	-
Wexford	1	5	0	4	0	2	0	9	1	5	1	5	0	5	0	5	1	9	1	5
Wicklow	1	11	-	10	0	12	1	14	1	14	-	13	1	13	1	13	1	13	2	13
Northern Ireland	21		21		21		21		21		21		21		21		21		21	
Totals	39	150	34	126	33	149	40	151	37	148	34	145	36	145	45	145	40	145	38	145

This is the volume associated with the NRV >= 7 cm. An estimate of harvestable volume is provided in Tables 1 and 2 Notes:

Coillte volumes exclude broadleaves

Northern Ireland volumes are not available at a county level

Northern Ireland volumes do not include broadleaves

Due to computational methodology, the county totals may not always exactly match the national or entity totals 4. 7.

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	2026	7	2027	2028	8	2029	6	2030	30	2031		2032	2033	33	2034	4	2035		Total 2016 - 2035	- 2035
County / Northern Ireland	Non Coilite Coilite	Non Coillte Coillte		Non Coillte Coillte		Non Coilite Coilite		Non Coillte Coillte		Non Coillte Coillte	Non Coi	Non Coillte Coillte	Non Coillte Coillte		Non Coillte Coillte		Non Coillte Coillte		Non Coillte C	Coillte
Carlow	-	2 0	2	0	2	0	2	0	2	0	1	0	0	-	0	-	0	-	9	40
Cavan	0	2	2	0	2	-	2	0	2	-	-	1	0	-	0	-	-	-	1	22
Clare	_	5	2	0	2	0	2	-	2	0	9	9 0	0	9	0	9	0	9	80	132
Cork	3 2	23	23	ဇ	23	2	23	2	23	-	20	2 20	-	20	-	20	-	20	31	433
Jonegal	0	4	4	0	4	-	4	0	4	0	4	0	-	4	0	4	-	4	6	109
Dublin		-	-		-	0	-		-		_	-		-		-		-	0	18
Salway	3	12 4	12	-	12	2	12	2	12	3	10	1 10	-	10	2	10	-	10	44	255
Kerry	0	2	2	0	2	0	2	0	2	0	က	0	0	က	0	3	0	က	9	75
Kildare	0	1 0	-	0	1	0	1	0	-	0	-	0		1		1		-	1	41
Kilkenny	7 2	4 2	4	3	4	2	4	3	4	1	4	1	2	4	-	4	1	4	32	26
-aois	-	7	7	-	7	-	7	0	7	-	9	1 6	0	9	0	9	-	9	19	140
-eitrim	0	2 0	2	0	2	0	5	0	2	0	2	0 2	0	2	0	2	0	2	9	66
Limerick	7	5 2	2	2	2	1	5	2	2	1	4	1	0	4	1	4	0	4	21	100
Longford	1	1	1	0	1	0	1	0	1	0	1	0	0	1	0	1	0	1	2	24
Louth		0	0		0	0	0	0	0	0	0	0	0	0		0	0	0	-	7
Mayo	0	4	4	0	4	0	4	0	4	0	4	0	0	4	0	4	0	4	4	98
Meath	0	0	0		0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	4
Monaghan	0	-	-	0	-	0	-	0	-		+	0	0	-		1		-	-	27
Offaly		2 -	2		2		2	0	2		2	0 2		2	0	2	0	2	-	39
Roscommon	0	2 1	2	-	2	-	2	0	2	-	2	1 2	0	2	-	2	1	2	15	52
Sligo	0	4 0	4	0	4	0	4	0	4	0	4	0 4	0	4	0	4	0	4	9	74
Tipperary	1 7	10 4	10	4	10	3	10	2	10	2	8	2 8	1	8	2	8	3	8	12	220
Naterford	1	9 1	6	2	6	2	6	1	6	1	8	1 8	1	8	1	8	1	8	22	185
Nestmeath	1	1	1	0	1	0	1	0	1	0	1	0	-	1	0	1	0	1	9	19
Wexford	0	5 2	2	1	2	1	5	0	5	1	3	1 3	0	3	0	3	0	3	11	91
Micklow	1 2	11 2	11	2	11	-	11	1	11	1	10	2 10	1	10	0	10	1	10	21	231
Northern Ireland	24	24		24		24		24		17		17	17		17		17		414	
Totals	46 125		125	46	125	42	125	44	125	35 11	110	34 110	27	110	26	110	31	110	756	2,625

Table 13: Annual forecast of Net Realisable Volume, spruce (000 $\rm m^3$ overbark).

	illte	33	8	200	298	235	11	225	140	19	92	133	79	99	13	10	91	4	22	64	4	81	183	117	17	49	195		2,425
2025	Non Coilite Coilite	44	104	194	526	25	17	257	238	21	47	77	144	29	24	2	133	17	18	82	141	06	100	218	38	36	190	443	3,025
		33	34	200	298	235	11	225	140	19	92	133	62	92	13	10	91	4	22	64	44	81	183	117	17	49	195		2,425
2024	Non Coilite Coilite	28	45	189	173	33		135	141	33	87	125	122	2.	58	2	73	11	14	61	159	138	187	83	46	33	218	443	
	Non Coill	.,	7	Ì			ľ			.,									,	9	1,	13	#			.,	2.	47	2,685
3	oillte	33	34	200	298	235	11	225	140	19	92	133	79	92	13	10	91	4	22	64	4	81	183	117	17	49	195		2,425
2023	Non Coillte Coillte	18	48	129	183	38	6	177	155	27	73	72	128	09	32	1	75	14	11	81	148	78	133	118	38	40	83	443	2,399
		33	34	200	298	235	11	225	140	19	99	133	6/	99	13	10	91	4	22	64	4	8	183	117	17	49	195		2,425
2022	Non Coilte Coilte	19	89	111	137	48	13	120	146	27	31	24	72	33	19	2	22	2	6	15	94	42	94	47	19	58	85	443	1,808
	Non (33	34	200	298	235	11	225	140	19	92	133	13	92	13	10	91	4	22	64	44	81	183	117	17	49	195	_	2,425
2021	Coillte																												
2	Non Coilite Coilite	5	40	109	109	43	0	70	105	7	21	28	72	24	39	2	22	12	5	18	66	37	22	19	13	23	46	443	1,469
	oillte	24	9/	177	370	168	12	189	121	11	29	8	82	119	10	8	62	14	27	31	47	6/	206	177	13	22	282		2,537
2020	Non Coillte Coillte	7	31	26	28	23	1	22	19	7	20	13	108	22	12	9	56	2	10	25	78	20	43	30	53	32	37	486	1,347
		31	89	196	380	157	18	194	167	7	92	141	75	103	8	7	99	8	20	9	75	79	135	153	59	92	231		2,581
2019	Non Coillte Coillte	7	33	28	22	39	3	35	80	21	38	32	20	22	12	1	33	4	4	15	43	30	29	23	24	48	11	486	1,336
		22	52	190	377	143	2	211	163	12	92	135	75	19	17	2	47	3	17	32	62	85	182	101	31	62	184		2,386
2018	Ite Coillte	2	17	36	40	14	-	24	25	10	14	22	73	15	6	1	12	2	3	13	17	13	25	13	30	22	46	486	
	Non Coillte																											4	1,057
- 21	Coillte	20	43	140	338	114	13	168	132	16	49	100	79	54	16	14	63	10	14	34	09	75	120	80	12	45	165		1,974
2017	Non Coilite Coilite	2	15	56	32	18	0	43	27	2	19	24	36	7	8	0	13	7	2	12	20	19	46	24	7	17	33	486	953
		24	34	161	341	128	80	193	154	21	51	102	73	49	30	7	39	0	18	38	40	64	183	126	40	30	184		2,135
2016	Von Coillte Coillte	3	12	37	33	11	2	34	42	-	20	16	44	20	9	8	13	1	2	14	20	22	42	27	32	30	33	486	1,011
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	County / Northern Ireland	Carlow	Cavan	Clare	Cork	Donegal	Dublin	Galway	Kerry	Kildare	Kilkenny	Laois	Leitrim	Limerick	Longford	Louth	Mayo	Meath	Monaghan	Offaly	Roscommo	Sligo	Tipperary	Waterford	Westmeath	Wexford	Wicklow	Northern	Totals

Notes: 1. Northern Ireland volumes are not available at a county level

Due to computational methodology, the county totals may not always exactly match the national or entity totals

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	20	2026	20	2027	2028		2029		2030	2031		2032		2033		2034	2035	35	Total 2016 - 2035	6 - 2035
Sounty / Northern	Non Coillte Coillte	Coillte	Non Coilite Coilite	Coilite	Non Coillte Coillte		Non Coillte Co	illte	Non Coillte Coillte	Non Coillte Coillte		Von Coilite Coilite		Non Coillte Coillte	Non C	Non Coillte Coillte	Non Coilite Coilite	Coillte	Non Coillte	Coillte
Carlow	34	32	35	32	15	32	21	32	29 32	14	31	14	31	21	31	15 31	4	31	342	633
Cavan	94				72	45	73	45		100	46	94	46	166	46	80	46 69	46	1,287	893
Clare	216			181	190	181	206	181	199 181	191	188	256	188	234	188	239 188	350	188	3,310	3,708
Cork	280	323	277	323	251	323	187	323	249 323	3 268	365	336	365	237	365		398	365	3,784	6,741
Donegal	92	171	43	171	53	171	69	171	171		220	73	220	102	220		146	220	1,251	3,837
uplin	1	16	7	16	-	16	9	16	4 16	91 18	10	-	10	43	10		10 6	10	161	237
Galway	164	237	128	237	181	237	169	237	172 237	7 243	222	223	222	141	222	228 222	326	222	2,926	4,376
Kerry	260	109	197	109	178	109	246	109	242 109	9 233	144	423	144	393	144			144	4,172	2,701
Kildare	39	6	25	6	18	6	34	6	27 8	9 25	8	26	8	10	8	34	8 33	8	433	242
(ilkenny	86	19	68	61	112	61	29	61		139	99	82	99		99	102 6	66 102	99	1,387	1,273
Laois	175		168			103	104	103	94 103		105	137	105	78	105	-	5 139	105	1,701	2,278
Leitrim	189	120		120	06	120	171	120		0 229	26	130	26	183	26	135 97	7 219	26	2,547	1,865
imerick	128	92		9/	98	92	130	92	92 92		85	89	85	187	85	120 8	85 154	85	1,500	1,514
ongford.	49	15	32		99	15	30	15		2 36	6	27	6	63	6	61	9 45	6	651	269
Louth	2	4	4	4	1	4	-	4	4	12	2	2	2	4	2	1	2 10	2	71	120
Mayo	129	8	46	81	29	81	77	81	99 81		128	154	128	129	128	119 128	3 126	128	1,573	1,777
/leath	10	3	7	3	56	က	2	က	12	3 19	-	10	-	83	-	22	1 27	1	308	73
Ionaghan		20	37	20	29	20	23	20			22	13	22	19	22	41 22		22	307	411
Offaly	110	1 28	102		26	28	84	28	96 28	3 28	29	29	58	98	59	73 2	29 57	29	1,140	804
Roscommo	146	49	178		146	49	113	49	109 46	132	52	178	52	113	52	154 5	52 145	52	2,236	1,008
Sligo	73			75	22	75	72	75	102 75		70	92	20	81	20		96 02	20	1,428	1,513
Tipperary	229	165	263	165	266	165	178	165	Ì	301	189	169	189	285	189	168 189		189	3,187	3,508
Naterford	111	113	112	113	73	113	119	113	104 113	3 105	157	127	157	101	157	84 157	7 94	157	1,631	2,570
Vestmeath	37	1	41	7	8	7	23	1	55 11	1 68	8	43	80	81	8	74	8 58	8	191	307
Wexford	32		59		09	65	49	65	73 65	5 43	50	39	20	37	50	42 50	37	50	782	1,125
Wicklow	173	167		167	95	167	107	167	109 167		188	110	188		188	112 188		188	2,081	3,797
Northern Ire	re 528		528	-	528	-	528	-	- 228	352	-	352	-	352		352 -	352	-	9,045	
Totals	3	2,276		2,276	2,980	2,276	2,893	2,276	3,137 2,276	3,212	2,492		2,492	3,455 2,4	2,492 3	3,404 2,492	,	2,492	50,034	47,579

Table 14: Annual forecast of Net Realisable Volume, lodgepole pine (000 m³ overbark).

	2016		2017	17	20	2018	2019	6	2020	50	2021		2022	2	2023		20	2024	20	2025
County / Northern Ireland	Non Coillte Coillte		Non Coillte Coillte		Non Coillte Coillte		Non Coillte	Coillte	Non Coillte Coillte		Non Coilite Coilite		Non Coilite Coilite		Non Coilite Coilite	Coillte	Non Coilite Coilite	Coillte	Non Coilite Coillte	Coillte
Carlow		٠			0	٠	0	٠	٠			0	0	0	٠	0	0	0	٠	0
Cavan	0	2	0	2	-		0		0		0	0	-	0	0	0	0	0	-	0
Clare	0	9	0	16	ო		2		0		-	-	2	-	2	-	2	-	4	-
Cork	က	6	-	2	2		-		21		ဇ	-	4	-	80	-	3	1	∞	-
Donegal	2	7	4	28	5		7		15		14	-	6	-	14	-	32	1	14	-
Dublin			-	1								1	0	-		-	-	1		1
Galway	11	24	10	09	19		7		19	18	25	3	18	က	19	3	10	က	18	က
Kerry	0	80	3	13	က		7		ო		2	2	4	2	7	2	8	2	က	2
Kildare	0		0		1		0				0	0	-	0	-	0	-	0	-	0
Kilkenny	0	0	0	2	2		0				-	0	-	0	0	0		0	-	0
Laois	3	0	1	8	3		0		-		2	1	2	-	1	-	1	l l	9	1
Leitrim	0	7	0	10	က		1		2		0	0	9	0	-	0	1	0	1	0
Limerick	0		0		0		-		0		0	0	2	0	0	0	1	0	2	0
Longford	0	0	-	2	က		0		0		-		0		က		1		2	
Louth	0	0		2	0				0			-	0	-	0	-		-		-
Mayo	7	24	2	21	9		17		16	33	12	3	25	က	13	3	88	က	21	က
Meath			0	2	0		0		0		0		0		0		0		-	
Monaghan	0	-	0	4	0				0		0		0				0		0	
Offaly	2	0	3		-		-		-		-	0	2	0	2	0	3	0	4	0
Roscommon	2	4	2	4	2		3		2	0	2	0	7	0	2	0	9	0	8	0
Sligo	1	4	1	6	1		2	-	4	1	3	0	2	0	5	0	7	0	9	0
Tipperary	+	10	0	12	-		2		ဇ		8	-	9	-	2	-	2	1	ဇ	-
Waterford	3	2	2	7	2				0		-	0	-	0	11	0	2	0	-	0
Westmeath	0	-	0	9	0		0		-		0	-	2		0		1	-	1	
Wexford		-	0		0		0		,		0	3	-	3	0	3	-	8	0	3
Wicklow	1	9	0	4	1				0		0	1	2	-	1	1	5	1	0	1
Northern Ireland	20	-	20	-	20		20	-	20	-	10	-	10	-	10	-	10	-	10	-
Totals	62	119	53	215	81		08		108	53	88	19	110	19	105	19	183	19	115	19

Notes: 1. Northern Ireland volumes are not available at a county level

Due to computational methodology, the county totals may not always exactly match the national or entity totals

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	2026	2027	27	2028		2029		2030		2031	2	2032	2033	33	2034	34	2035	35	Total 20	Total 2016 - 2035
County / Northern Ireland	Non Coillte Coillte	Non Coillte Coillte		Non Coilite Coilite		Non Coillte Coillte	Non 6	Non Coillte Coillte	Non Coi	Non Coillte Coillte	Non Coillte Coillte	Coillte	Non Coillte		Non Coilte Coilte		Non Coillte Coillte	Coillte	Non Coillte	Coillte
Carlow	0	0	0		0	0	0	0	0	0	- 0	0	-	0	0	0	0	0	3	ဇ
Cavan	-	0	0	0	0	-	0	9	0	-	0		0		-	,	-		16	7
Clare	2 2	20 5	20	14	20	41	20	18	20	6 12	2 7	12	2	12	6	12	11	12	109	185
Cork	18	9 18	6	7	6	11	6	24	6	13	7 18	7	б	7	7	7	22	7	194	86
Donegal	24	10 55	10	24	10	36	10	43	10	31 2	15	4	32	4	82	4	74	4	540	112
Dublin		0	0		0		0	0	0		0	0		0		0		0	0	6
Galway	15 5	51 22	51	20	51	51	51		51	9 47	7.	1 47	9	47	18	47	7	47	350	609
Kerry	7	9	2	S	c)	4	2	13	2	4	2 7	2	14	2	6	2	20	2	132	64
Kildare	-	3	3	0	က	2	3	7	3	0	2 0	0		0	7	0	0	0	34	17
Kilkenny	2	2 4	2	-	2	0	2	3	2	0	3	8		ო	0	8	-	က	16	56
Laois	-	7 8	7		7	13	7	7	7	0 24	0	24	0	24	2	24	-	24	20	195
Leitrim	3	3	9	12	က	2	33	17	3	-	0	0	2	0	0	0	4	0	65	34
Limerick	4	1	-	2	-	4	-	2	-	0	2 0	2	-	2	2	2	2	2	26	20
Longford	3	2 4	2	4	2	16	2	10	2	-	0	0	-	0	-	0	က	0	22	18
Louth	0	1	-		-		-	0	-	0	0						-		2	+
Mayo	11	37 85	37	27	37	34	37	71	37	25 32	2 54	32	43	32	43	32	62	32	629	435
Meath	0	1	0	0	0	3	0	2	0	0	1	-		-	0	-	-	-	10	7
Monaghan	0	0		0			,	+	,	-	0						0		3	4
Offaly	7	7 14	7	2	7	2	7	9	7	3	2 4	1	-	2	11	2	-	2	74	48
Roscommon	10	7 12	7	91	7	18	7	37	7	, 9	1 3	1	8	1	15	-	10	-	177	44
Sligo	1	10 13	10	41	10	11	10	26	10	-	7	7	7	7	3	7	28	7	138	
Tipperary	2 1	11 15	11	11	11	10	11	10	11	11 11	1 4	11	4	11	2	11	18	11	110	136
Waterford	-	0 13	0	2	0	0	0	6	0	8	3	က	2	е	-	Э	2	က	53	25
Westmeath	-	4	4	2	4	10	4	8	4	0	1	-	0	-	3	-	က	-	33	31
Wexford	-	2 4	2	0	2	0	2	-	2	0	1	+	0	-		-	-	-	8	29
Wicklow	0	1	-	0	-	2	-	7	-	-	1	-	0	-	-	-	-	-	26	23
Northern Ireland	- 10	10		10		- 10		10	,		10		10		10		10		250	
Totale		309	196	184	196		196		196	121	Ī	160	144	160	228	160	302	160	3.154	2 258

Table 15: Annual forecast of Net Realisable Volume, other conifers (000 m3 overbark).

	2016		2017		201	8	2019	6	2020	20	20	2021	2022		2023		2024	4	2025	22
County / Northern Non Coilite Coilite	Non Coilite Coill		Non Coillte Coillte		Non Coilite	Coillte	Non Coillte Coillte	Coillte	Non Coillte Coillte		Non Coilite Coilite	Coillte	Non Coilite Coilite	_	Von Coillte Coillte	Coillte	Non Coilite Coilite		Non Coillte Coillte	coillte
Carlow	7	-	1	∞	0	4	ဧ	10	-	3	1	10	4	10	-	10	1	10	-	10
Cavan	2	2	7	-	က	2	-		4	0	4	2	3	2	2	2	2	2	Э	2
Clare	3	7	ω	15	2	9	2	2	9	9	3	2	2	7	2	7	-	7	Э	7
Cork	49	34	16	33	15	22	33	11	27	3	14	08	9	30	4	30	2	30	7	30
Donegal	2	∞	0	7	0	13	0	-	3	-	-	4	-	4	0	4	-	4	0	4
Dublin	0	2	7	7	2	0	0	0	4	4	0	2	0	2	0	2	0	2	0	2
Galway	23	9	11	32	2	7	2	5	3	14	2	10	4	10	4	10	2	10	2	10
Kerry	1	6	6	3	4	6	2	2	20	9	3	9	2	9	4	9	5	9	5	9
Kildare	80	2	4	3	-	3	-	0	3	-	7	9	2	5	-	2	-	5	-	5
Kilkenny	3	20	-	20	-	9	-	4	2	3	2	41	2	17	2	17	2	17	3	17
Laois	4	4	6	2	4	5	0	3	2	0	3	13	4	13	3	13	3	13	2	13
Leitrim	-	-	7	9	2	0	-		2	0	2	2	2	2	2	2	2	2	3	2
Limerick	8	9	-	-	-	3	-	0	4	-	2	4	2	4	-	4	2	4	3	4
Longford	10	0	0	0	0	0	1	0	4	-	-	0	4	0	1	0	1	0	0	0
Louth	3	0	0	14	2	2	0	-	1	0	2	4	1	4	0	4	1	4	1	4
Mayo	11	7	2	3	2	2	0	1	1	1	2	8	1	3	-	3	1	3	2	3
Meath	22		59		4	-	-	0	-		2	0	4	0	-	0	2	0	2	0
Monaghan	0	0	က		8		2	0	3	0	-	_	-	-	-	-	-	-	-	-
Offaly	22	9	6	-	2	9	-	-	14		4	8	3	80	2	8	2	8	2	8
Roscommon	4		1	0	1	1	1	-	11	1	1	1	1	1	1	1	1	1	2	1
Sligo	2	0	0	6	0	4	0	3	0	1	0	4	1	4	1	4	0	4	0	4
Tipperary	26	39	6	44	45	16	21	13	7	4	7	34	20	34	8	34	4	34	7	34
Waterford	27	35	31	48	18	40	2	17	5	3	19	45	2	45	4	45	4	45	9	45
Westmeath	6	0	12	2	-	2	1	2	4	0	3	7	3	2	-	2	1	2	1	2
Wexford	3	2	8	8	7	7	1	12	9	9	23	34	27	34	2	34	5	34	4	34
Wicklow	9	25	96	73	25	62	15	23	47	27	22	64	11	64	13	64	5	64	11	64
Northern Ireland	28		28		28	-	28	-	28	-	55	-	55	-	22	-	22	-	55	-
Totals	293	251	314	378	184	226	122	113	242	83	189	313	169	313	116	313	112	313	127	313

Notes: 1. Northern Ireland volumes are not available at a county level

Due to computational methodology, the county totals may not always exactly match the national or entity totals

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1	2026	56	2027		2028		2029		2030		2031		2032		2033		2034		2035		Total 2016 - 2035	- 2035
County / Northern Ireland	Non Coillte Coillte		Non Coillte		Non Coillte Coillte		Non Coillte Coillte		Non Coillte		Non Coillte Coillte		Non Coillte Coillte		Non Coillte Coillte	Non C	Non Coilite Coilite		Non Coillte Coillte		Non Coillte C	Coillte
Carlow	-	4	-	4	0	4	0	4	2	4	ဗ	-	2	-	-	-	2	-	2	-	33	102
Cavan	က	0	7	0	9	0	ဇ	0	9	0	2	0	o	0	10	0	2	0	9	0	88	19
Clare	2	2	4	2	2	2	-	2	9	2	က	-	8	-	17	-	8	-	15	-	100	06
Cork	3	7	2	7	2	7	4	7	6	7	36	9	18	9	11	9	26	9	56	9	316	325
Donegal	2	-	-	-	2	-	2	-	3	-	-	0	7	0	8	0	17	0	14	0	02	28
Dublin	0	0	0	0	-	0	0	0	-	0	2	0	-	0	-	0	4	0	9	0	30	32
Galway	2	-	-	-	2	-	2	-	9	-	4	-	20	-	1	-	13	-	7	-	117	122
Kerry	က	2	4	2	2	2	2	2	80	2	39	-	99	-	2	-	7	-	13	-	208	89
Kildare	2	-	1	-	-	1	2	1	8	1	12	0	16	0	2	0	7	0	15	0	100	42
Kilkenny	2	7	3	7	2	7	3	2	9	7	3	2	13	2	6	2	6	2	15	2	15	198
Laois	3	2	4	2	-	2	4	2	2	2	12	4	7	4	4	4	24	4	30	4	131	115
Leitrim	3	0	3	0	9	0	7	0	9	0	12	0	9	0	7	0	13	0	14	0	102	19
Limerick	4	2	4	2	2	2	4	2	4	2	7	2	9	2	3	2	9	2	8	2	70	51
Longford	2	0	-	0	-	0	2	0	-	0	က	0	4	0	-	0	2	0	2	0	41	ဇ
Louth	1	-	0	1	0	1	0	1	2	1	1	1	3	1	_	1	-	-	1	-	23	49
Mayo	2	-	9	-	4	-	9	-	က	-	10	0	4	0	13	0	19	0	21	0	114	40
Meath	-	0	2	0	2	0	4	0	-	0	-	0	2	0	2	0	8	0	2	0	96	4
Monaghan	-	0	-	0	-	0	1	0	-	0	-	0	3	0	-	0	-	0	2	0	30	9
Offaly	2	-	3	-	4	-	-	-	2	-	е	-	19	-	9	-	10	-	14	-	124	64
Roscommon	1	0	2	0	-	0	2	0	1	0	2	0	3	0	4	0	2	0	2	0	47	11
Sligo	1	0	2	0	-	0	2	0	-	0	2	0	3	0	1	0	3	0	18	0	38	37
Tipperary	2	11	7	11	2	11	6	11	16	11	13	6	23	6	6	6	15	6	56	6	222	386
Waterford	2	14	4	41	3	14	2	14	9	14	4	10	25	10	13	10	14	10	15	10	203	489
Westmeath	9	0	1	0	3	0	2	0	3	0	3	0	6	0	10	0	2	0	9	0	62	17
Wexford	6	13	3	13	2	13	2	13	2	13	8	8	12	8	6	8	6	8	11	8	152	341
Wicklow	2	11	7	17	9	17	7	17	6	17	6	12	53	12	6	12	32	12	22	12	421	269
Northern Ireland	09	-	09	-	09	-	09		09		20		20	-	. 02	-	20		20		1,065	-
Totals	129	88	141	88	131	88	141	88	185	88	269	99	381	77 99	243	99	333	99	426	99	4,092	3,384

Table 16: Annual forecast of Net Realisable Volume, broadleaves (000 m3 overbark).

	2016	16	2017	17	201	8	2019	6	2020	0.	2021	21	2022		2023		2024	4	2025	25
County / Northern Ireland	Non Coillte Coillte		Non Coillte Coillte		Non Coillte		Non Coillte		Non Coillte Coillte		Non Coillte Coillte		Non Coillte Coillte		Non Coillte		Non Coillte Coillte		Non Coillte	Coillte
Carlow	τ-	-	-		-		-		-		-		-		-		-		-	
Cavan	3	-	3		3		4		က		Э		3		3		4		3	
Clare	2		2		9		9		2		18		9		9		9		9	
Cork	11		11	-	11	-	11	-	12	-	13	-	12	-	12	-	11	-	12	-
Donegal	4	-	4		4		4		2		2		4		4		2		2	
Dublin	-	-	-		-		-		-		-		-		-		-		-	
Galway	5		5	-	5	-	5	-	2	-	7	-	5	-	5	-	5		5	-
Kerry	9		9		7		9		7		7		7		7		9		7	
Kildare	2	-	1	-	2	-	1	-	2		5	-	9	-	2	-	2		2	-
Kilkenny	2	-	2	-	2	-	2	-	2	-	2	-	3	-	2	-	2	-	8	-
Laois	2	-	2		2		2		2		ဇ		2		3		2		2	
Leitrim	ဇ	-	2		ဇ		2		2		ဇ		3		3		က		2	
Limerick	2	-	2		2		2		2		2		2		2		3		4	
Longford	1	-	1		-	-	1	-	2		1	-	2	-	-	-	1		1	
Louth	1	-	-	-	1	-	-	-	1	-	2	-	2	-	-	-	1	-	1	-
Мауо	4	-	4	-	4	-	4		3		5	-	4	-	4		4		4	
Meath	က	-	3		ဇ		3		က		ဇ		4		3		4		3	
Monaghan	2	-	2	-	2		2		2		2		2	-	2		2		2	-
Offaly	2	-	2	-	3	-	3	-	3	-	4	-	5	-	3	-	3	-	2	-
Roscommon	1	-	1	-	2	-	-	-	2	-	2	-	2	-	3	-	1	-	2	-
Sligo	2	-	1	-	2	-	1	-	1	-	1	-	2	-	2	-	1	-	2	-
Tipperary	3	-	4	-	4	-	2	-	4	-	10		4	-	2	-	15	-	6	
Waterford	3	-	3	-	3	-	3	-	4	-	4		3	-	3	-	4	-	2	
Westmeath	2	-	2	-	2	-	2	-	2	-	3	-	3	-	2	-	2	-	3	
Wexford	2	-	2	-	2	-	3	-	2	-	4	-	3	-	2	-	3	-	2	-
Wicklow	11		3	-	5		4	-	4		6	-	4	-	9	1	4	-	5	-
Northern Ireland	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Totals	84	•	74		80		42		83		119	•	92	•	06		86		102	•

Notes: 1. Coillte broadleaf volumes are not available at a county level

2. No forecast broadleaf volumes are available for Northern Ireland

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	20	2026	2027	27	2028	28	2029	6	2030	90	2031	31	2032	22	2033	33	2034	34	2035	35	Total 2016 - 2035	6 - 2035
County / Northern Ireland	Non Coillte Coillte	Coillte	Non Coilite Coilite	Coillte	Non Coilite Coilite		Non Coillte Coillte		Non Coillte Coillte		Non Coillte Coillte		Non Coilite Coilite		Non Coillte Coillte		Non Coillte	Coillte	Non Coillte	Coillte	Non Coillte	Coillte
Carlow	-		8		2		4		-		7		-		2		-		7		32	
Cavan	4		4		4		12		S		4		4		б		7		6		26	
Clare	8		13		6		12		12		9		9		17		29		44		226	
Cork	13		16		18		22		14		13		13		20		34		42		321	
Donegal	4		80		6		80		9		4		9		8		19		16		133	
Dublin	-		-		2		က		-		-		-		2		2		4		28	
Galway	7	-	80		80		7		9		5		7		6		12		25		144	
Kerry	10	-	8	-	6	-	16		14	-	7	-	13	-	12	-	19	-	23	-	198	
Kildare	11	-	4	-	4	-	2	-	2	-	2	-	2	-	3	-	8	-	25	-	91	
Kilkenny	6	-	9		9		7	-	3	-	3	-	6	-	7	-	6	-	13	-	101	
Laois	9	-	2	-	3	-	6	-	3	-	3	-	2	-	7	-	8	-	56	-	92	
Leitrim	9	-	4	-	11	-	20	-	2	-	2	-	4	-	2	-	8	-	18	-	108	
Limerick	2	-	4	-	4	-	7	-	7	-	2	-	4	-	2	-	9	-	6	-	77	
Longford	2	-	2	-	-	-	7	-	1		2	-	2	-	3		2	-	2	-	46	
Louth	2	-	1	-	-	-	2	-	1	-	1	-	1	-	2	-	1	-	2	-	29	
Mayo	9		2		9		7		4		4		7		6		6	-	15		108	
Meath	3		15		80		10		3		ဇ		က		3		36		14		129	
Monaghan	2		ო		4		က		2		2		2		က		ဇ		4		43	
Offaly	9	-	8		9		11		4		3		4		11		12		34		132	
Roscommon	2		2		3		2		2		2		2		9		8	-	6		19	
Sligo	-		က		2		2		2		2		ဇ		4		9		10		25	
Tipperary	11		41		19		22		2		4		2		8		27		30		207	
Waterford	8		6		10		10		4		က		9		10		12		21		130	
Westmeath	2		4		21		33		3		က		4		21		15		28		160	
Wexford	10	-	2	-	7	-	13	-	4	-	2	-	2	-	9	-	23	-	23	-	119	-
Wicklow	8	-	6	-	7	-	17	-	5	-	4	-	2	-	11	-	11	-	15	-	147	-
Northern Ireland	_	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-	-	-	-	-	-
	153		167		189		277		115		87		121		204		331		471		3,017	



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