The Forest Resource









Tom Houlihan Teagasc Forestry Specialist March 10, 2020



23,000 private owners 394,000 ha, 83% farmers **Ireland's forests and Forestry Programme**

Forestry sector worth €2.3 billion







12,000 jobs (mainly rural)



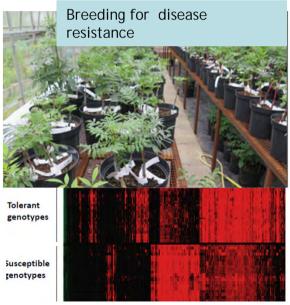
778,000 ha 11% of land area

Ecosystem services

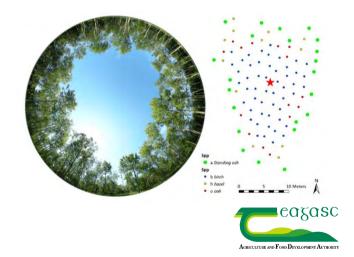


Teagasc Forestry Research









Teagasc Forestry Research

Forest thinning/potential of other species









EARTH





Teagasc Forest Advisory Events



















Teagasc Forestry Training













Mobilising the Forest Resource



Thinning



Owner Co-Operation









Harvesting















Roundwood Products

Pulpwood/Energywood/Stakewood

7cm
1.5 to 3.8metres

Palletwood

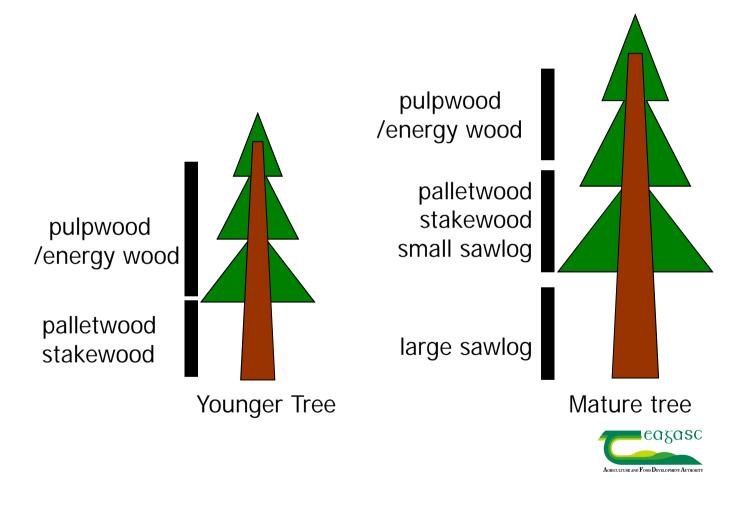
1.5 to 3.7metres

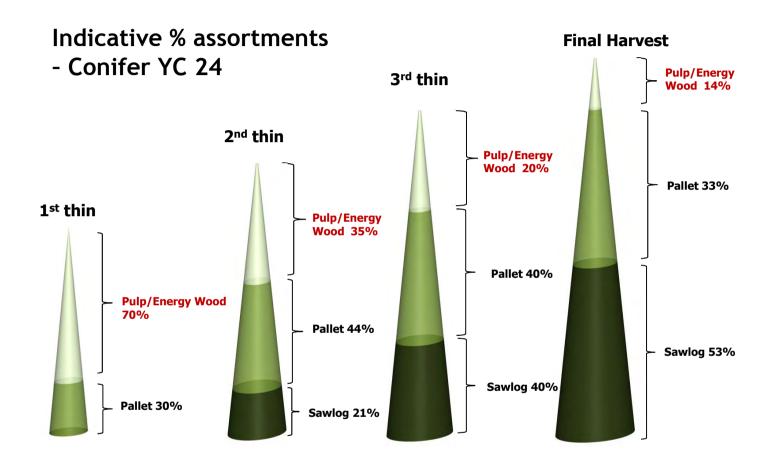
2.4 to 3.7metres

3.7metres and bigger

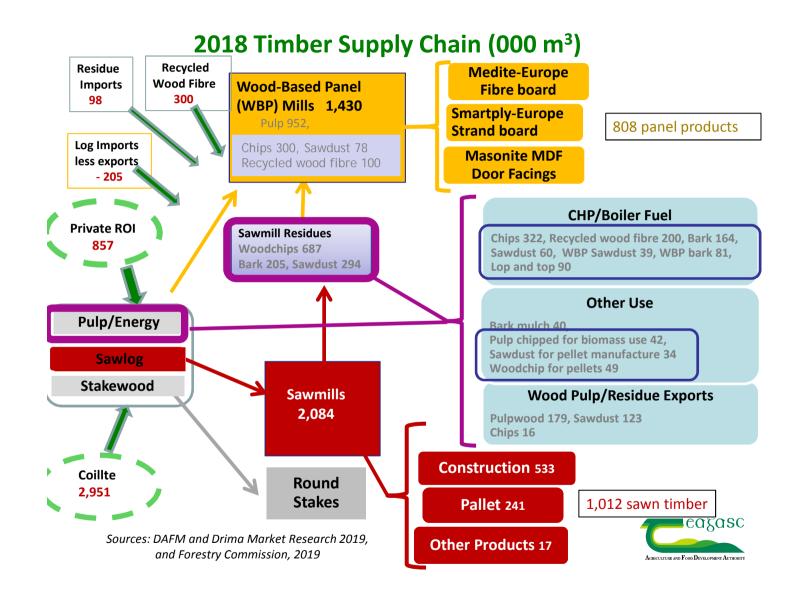


Indicative Timber Assortments



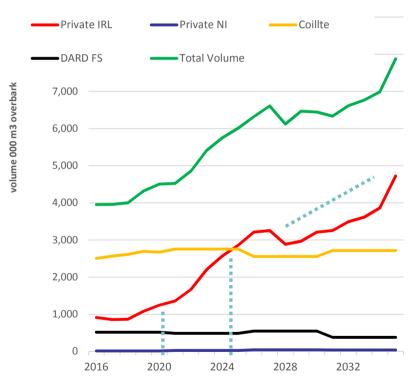






Timber Supply

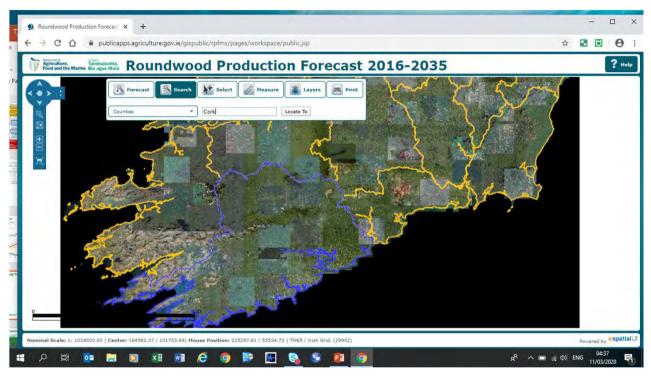
Forecast of total net realisable volume production to 2035 (000m³)



Source: All-Ireland Roundwood Production Forecast 2016-2035 (COFORD, 2016)



Web Based Mapping Tool



Source: COFORD, 2016

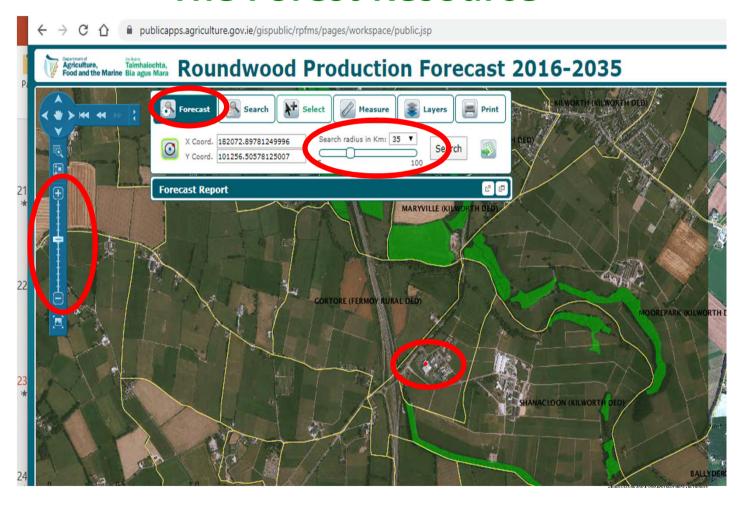
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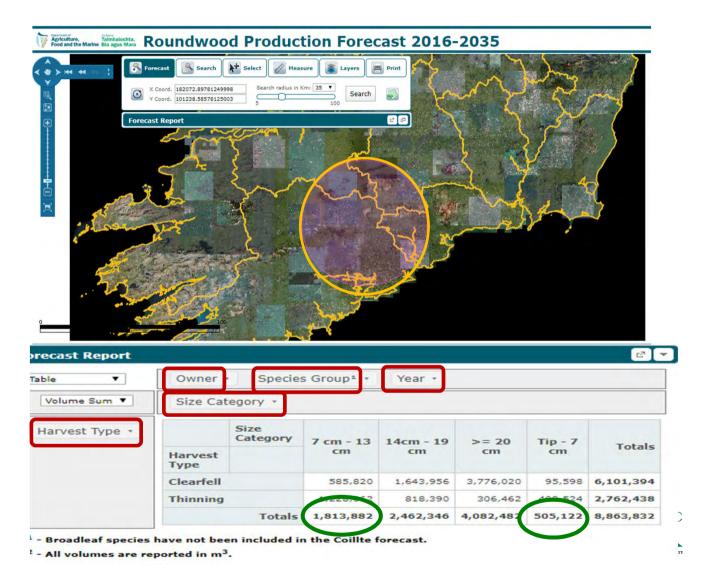
https://www.agriculture.gov.ie/forestservice

/forestmanagementtools/

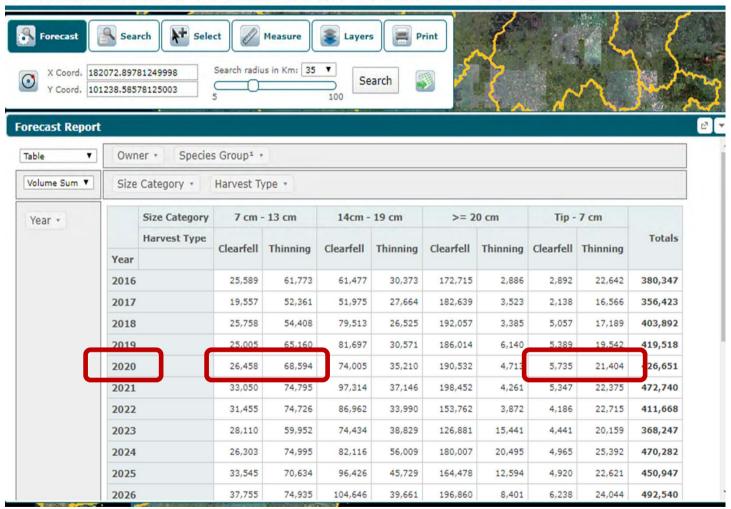


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Roundwood Production Forecast 2016-2035



Wood Fibre Availability Forecast Rol (m³ equivalent)

Year	Total Fibre (000 m³)	Energy Content Millions (GJ)
2020	2,171	14.98
2025	3,100	22.07
2035	4,186	28.88

Wood fibre includes

- Roundwood 7-13 cm
- Tip of tree to 7cm
- Downgraded larger roundwood + residues
- Residues from harvest
- Suitable recycled wood products

Source: COFORD, 2016



Sustainably- Produced biomass

- Additional local markets for small/lower grade logs
- Stimulus for enhanced and sustainable forest management
- Assisting in promoting quality, vigour and diversity within forests
- Cost savings for local business/enterprise
- Competitive advantage through sustainability
- Assist in transition to low carbon economy
- Enhanced economic and growth agenda



Case Study – Astellas Ireland Company Limited – Kerry Plant











Case Study – Poultry Farm

- 2 X 200 kW Fröling T4e Woodchip Boilers
- Biomass consumption: 596,000 kWh/yr
- SSRH Support: €25,920/yr
- Estimated fuel saving: €7,748/yr
- Estimated CO₂ saving: 149,000kg
- Capital cost €180,000
- Payback in **7.5 years** including interest
- Sources:







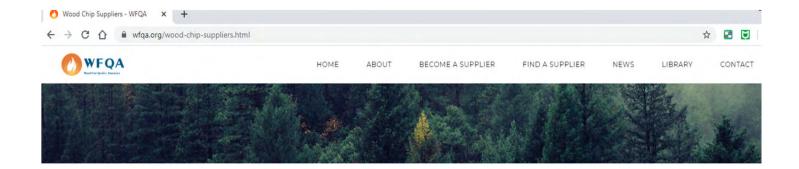




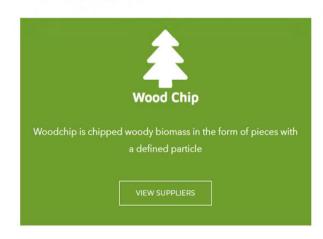
Case Study, McAuley Wood Fuels







Wood Chip Suppliers







Challenges / Opportunities

- Energy use of wood has a significant role to play
- Promotion of sustainable management within forests
- Sustainable and increasing supply of raw material
 - achieving net realisable volumes
- Stimulate appropriate harvest activity
- Balanced approach to the development of Ireland's wood resource



New Biomass Projects

Research / homework essential

Insights into:

- Sustainable current and future biomass supply and demand – specific to your needs
- Local supplies from catchment
- Insights from existing successful projects
 - Basis for informed decisions
- Quality assurance



