



**An Roinn Talmhaíochta, Bia agus Mara** Department of Agriculture, Food and the Marine

# Forest Sector Development Division

# Department of Agriculture, Food and the Marine Agriculture House 3 West, Kildare Street, Dublin 2, DO2 WK12, Ireland

Tel: 00 353 (53) 917 0322

Email: fsd@agriculture.gov.ie

www.coford.ie

www. woodenergy.ie

www.woodspec.ie



# Table of Contents - April 2020

## **Reproductive Material**

- 1. The impact of herbicides on tree seedling quality (2001)
- 2. Effect of physiological condition at time of lifting on cold storage tolerance and field performance of important conifer and broadleaf species (2001)
- 3. The collection, storage, treatment and handling of conifer tree seed (2002)
- 4. The collection, storage, treatment and handling of broadleaved tree seed (2002)
- 5. The importance of plant size for successful forest plantation establishment (2002)
- 6. Plant quality; what you see is not always what you get (2002)
- 7. Poor quality planting of ash getting to the root of the problem (2003)
- 8. Common alder (Alnus glutinosa) as a forest tree in Ireland (2004)<sup>^</sup>
- 9. The importance of provenance and site selection on the production of quality noble fir (*Abies procera*) Christmas trees (2005)
- 10. Progress in the selection and improvement of Irish birch (2007)
- 11. Where should Washington and Oregon sources of Sitka spruce be planted in Ireland? (2007)
- 12. Provenances of beech best suited for Ireland (2007)
- 13. The importance of seed stands in broadleaved forestry (2007)
- 14. Lifting and handling stresses can cause shoot dieback in oak (2008)
- 15. Eucalyptus as a potential biomass species for Ireland (2008)
- 16. Seed source significantly influences growth, form and silvicultural management of oak (2008)
- 17. Economic benefits and guidelines for planting improved Washington Sitka spruce (2010)
- 18. Irish oak genetic diversity and the Iberian connection (2010)
- Use of exponential nitrogen loading in the nursery to promote nutrient uptake and quality of pedunculate oak seedlings (2012)
- 20. Identifying and characterising hybrid 'brown bud' ash in Ireland (2013)
- 21. Oak breeding in the Netherlands: lessons learned on a recent Future Trees Trust (FTT) study tour (2018)
- 22. Breeding for tolerance to Ash Dieback disease (2020)

## **Silviculture and Forest Management**

- 1. Computer software requirements in forest management (2001)
- 2. Dyes capable of bonding with fresh wood for use in stump treatment (2001)
- 3. Soil and site indicators for the production of high quality ash (Fraxinus excelsior L.) (2001)
- 4. Green Spruce Aphid a pest of spruce in Ireland (2002)

- 5. Establishing broadleaves (2002)
- 6. Silviculture of broadleaves (2002)
- 7. Controlling grey squirrel damage in Irish broadleaved woodlands (2003)
- 8. Continuous cover forestry (2003)
- 9. Realising the potential of private plantations (2004)
- 10. Thinning to improve stand quality (2004)
- 11. Pruning adds value to plantations (2004)
- 12. Systematic spacing trials for plantation research and demonstration (2005)
- Establishing a sustainable forest resource on industrial cutaway peatlands: tree performance and silvicultural techniques (2005)
- 14. Fertiliser application to conifer plantations on oligotrophic peat sites (2006)
- 15. Controlling the large pine weevil, Hylobius abietis, using natural enemies (2008)
- 16. Assessment of wild edible fungal production in Irish woodlands (2008)
- 17. Assessing the potential for spreading fertiliser in forests using ground-based machines (2010)
- 18. A preliminary evaluation of the application of multi-return LiDAR for forestry in Ireland (2010)
- 19. The Avondale initiative 1905 (2010)
- 20. Dynamic yield models used in Irish forestry (2012)
- 21. Nursing of oak in Ireland (2012)
- 22. Felling Decision Tool Conifers (2018)
- 23. Understanding and managing windthrow (2018)

#### Harvesting, Transport and Forest Machinery

- 1. A pre-harvest timber valuation system (2001)
- 2. Considerable savings possible by planning harvesting systems (2004)
- 3. Harvesting wood for energy from early first thinnings (2007)
- 4. Harvesting wood for energy from second and later thinnings (2007)
- 5. Firewood (2007)
- 6. Quality wood chip fuel (2007)
- 7. The potential of terrestrial laser scanning technology in pre-harvest timber measurement operations (2007)
- 8. A handy stand for sharpening your chainsaw (2008)
- 9. Crossing drains (2008)
- 10. An outline of the ForestEnergy series of COFORD Connects notes (2009)
- 11. Standard shortwood harvesting of conifer first thinnings for 3 m pulpwood and industrial roundwood (2009)
- 12. Integrated harvesting of conifer first thinnings for 4.3 m energy wood and industrial roundwood (2009)
- 13. Whole-tree harvesting of conifer first thinnings for energy wood chip production (2009)
- 14. Producing firewood from conifer first thinnings (2009)
- 15. Whole-tree harvesting of broadleaf first thinning for energy wood chip production (2009)
- 16. Production of wood chip from premature clearfelling of lodgepole pine on cutaway peat (2009)
- 17. Storage and seasoning of conifer roundwood in the forest (2009)
- 18. Forest storage and seasoning of conifer and broadleaf whole trees (2009)
- 19. Storage and seasoning of conifer and broadleaf firewood (2009)
- 20. Long term storage and seasoning of conifer energy wood (2009)
- 21. Units, conversion factors and formulae for wood for energy (2010)
- 22. Fuel consumption of timber haulage versus general haulage (2010)
- 23. Harvesting birch woodland on cutaway peat for wood chip production (2010)

- 24. Producing firewood from broadleaf first thinnings (2010)
- 25. Whole-tree harvesting of softwood first thinnings for energy wood chip production, chemical thinning (2010)
- 26. A synthesis and comparison of forest energy harvesting methods in conifer plantations (2010)
- 27. A synthesis and comparison of forest energy harvesting methods in broadleaves (2010)
- 28. Establishment of short rotation coppice seen from a harvesting point of view (2012)
- 29. Harvesting short rotation coppice willow (2012)
- 30. Storage of short rotation coppice willow fuel (2012)

## Wood Processing and Product Development

- 1. The mechanical and physical wood properties of a range of Sitka spruce provenances (2001)
- 2. General principles of timber usage (2002)
- 3. Energy efficiency of timber frame housing (2002)
- 4. Uses of home-grown Irish timber (2004)
- 5. Improving the stability of structural timber (2004)
- 6. Forest foliage (2007)
- 7. Structural timber design to Eurocode 5 (IS EN 1995-1-1) rules (2007)
- 8. Ordering and receiving wood chip fuel (2007)
- 9. Receiving and storing wood chip fuel (2007)
- 10. The production of wood pellets (2007)
- 11. Simple ways to check the quality of wood pellets (2007)
- 12. Guidelines for designing a wood pellet storage facility (2008)
- 13. Estimated woodflow for the Republic of Ireland for 2006 (2008)
- 14. Roundwood supply, wood energy and related issues in the UNECE region (2008)
- 15. Cladding (2008)
- 16. An overview of the Irish wood-based biomass sector (2008)
- 17. Gasifier-type firewood fuelled boilers (2008) (Revised 2012)
- 18. Estimated woodflow for the Republic of Ireland in 2007 (2008)
- 19. An overview of the 2008 UNECE Timber Committee meeting (2009)
- 20. An overview of the Irish wood-based biomass sector 2007 (2009)
- 21. Woodflow for the Republic of Ireland for 2008 (2009)
- 22. An overview of the Irish wood-based biomass sector in 2007-2009 (2010)
- 23. Preview of European standards for solid biofuels (2010)
- 24. An overview of the 2009 UNECE Timber Committee Meeting (2010)
- 25. Handling and using wood fuels in a safe manner with regard to carbon monoxide (CO) (2012)
- 26. Woodflow and biomass use on the island of Ireland (2009) (2012)
- 27. Woodflow and forest-based biomass energy use on the island of Ireland (2010) (2012)
- 28. Woodflow and forest-based biomass energy use on the island of Ireland (2011)
- 29. Woodflow and forest-based biomass energy use on the island of Ireland (2012)
- 30. Ash content of Irish woodfuel (2013)
- 31. Drying of firewood (2013)
- 32. Calorific value of Irish woodfuels (2013)
- 33. An overview of the 2012 UNECE Timber Committee Meeting (2013)
- 34. Woodflow and forest-based biomass energy use on the island of Ireland (2013)
- 35. Woodflow and forest-based biomass energy use on the island of Ireland (2014)

- 36. An overview of 2013 meeting of the United Nations Economic Commission for Europe (UNECE) Committee on forests and the forest industry (2016)
- 37. An overview of 2014 meeting of the United Nations Economic Commission for Europe (UNECE) Committee on forests and the forest industry (2016)
- 38. An overview of 2015 meeting of the United Nations Economic Commission for Europe (UNECE) Committee on forests and the forest industry (2016)
- 39. Review of worldwide standards for solid biofuels (2016)
- 40. New fuels: Thermally treated biomass (2016)
- 41. Health and safety aspects of using wood chips as a fuel (2016)
- 42. Health and safety in the handling storage and use of wood pellets (2016)
- 43. Wood ash (2016)
- 44. Heat treatment of softwoods to improve stability and durability (2016)
- 45. Woodflow and forest-based biomass energy use on the island of Ireland (2015)
- 46. An overview of roundwood harvest and forest products markets in the UNECE region in 2015 2017 (2017)
- 47. Software to help the wood for energy community (2017)
- 48. Woodflow and forest-based biomass energy use on the island of Ireland (2016)
- 49. Embedded energy in wood fuels (2018)
- 50. Woodflow and forest-based biomass energy use on the island of Ireland 2017 (2018)
- 51. Woodflow and forest-based biomass energy use on the island of Ireland 2018 (2019)

#### Socio-Economic Aspects of Forestry

- 1. Wood as a renewable source of energy (2002)
- 2. A survey of Western Package Afforestation Scheme plantations in relation to thinning needs (2003)
- 3. Social impacts of forestry: A case study approach (2008)
- 4. The economic impact of the forestry and wood products sectors in Ireland (2008)
- 5. Modeling the economics of forestry in Ireland the returns to farm afforestation (2010)

# Forestry and the Environment

- 1. Sodium Dominance Index as a measure of acid-sensitivity in Irish rivers (2001)
- 2. Forest certification what does it mean for Irish forestry? (2003)
- 3. Carbon sequestration in Irish forests (2003)
- 4. Liming options in afforested catchments in Ireland (2004)
- 5. Global forest certification 2004 update (2004)
- 6. The distribution of Hen Harriers in Ireland in relation to land use cover, particularly forest cover (2006)
- 7. National Pine Marten survey of Ireland 2005 (2006)
- 8. Dispelling myths: the true extent of recent peatland afforestation in Ireland (2008)
- 9. Climate change and Irish forestry (2009)
- 10. The use of forested landscapes by Hen Harriers in Ireland (2010)
- 11. The greenhouse gas balance of peatland forest (2010)
- 12. Suspended solid yield from forest harvesting on an upland blanket peat (2012)
- 13. Phosphorus release from forest harvesting on an upland blanket peat (2012)
- 14. A new vision of forest monitoring in Ireland and Europe. The FutMon project. (2012)

# Wood Technology Ireland

- Construction products regulation: Declaration of performance and CE marking (2016) 1.
- Timber roof trusses: General information (2017) 2.
- Structural timber: Marking for solid timber (2017) 3.
- Structural timber: Declaration of performance (2017) 4.
- Structural timber: General design requirements (2017) 5.
- Timber preservative treatment and durability solid timber a background (2018) 6.
- Irish standards on timber fencing general information (2018) 7.
- Wooden joinery (windows and doors) (2018) 8.
- Plywood (2018) 9.
- 10. Timber sizes solid timber for structural use (2020)
- 11. Grading structural timber (2020)





An Roinn Talmhaíochta, Bia agus Mara Department of Agriculture, Food and the Marine

**Forest Sector Development Division** 

Department of Agriculture, Food and the Marine Agriculture House 3 West, Kildare Street, Dublin 2, DO2 WK12, Ireland

Tel: 00 353 (53) 917 0322 Email: fsd@agriculture.gov.ie

www.coford.ie

www. woodenergy.ie

www.woodspec.ie