

Publications, national and international links, research programmes, contracts, and people

Forestry Commission technical publications

Publications by Forest Research staff

National and international links

Major research programmes undertaken by Forest Research

Research contracts awarded by Forest Research

Forest Research people



Forestry Commission technical publications

The following titles were published during the year ending
31 March 2005.

Published by Forest Research Reports and plans

Forest Research annual report and accounts 2003–2004
(£25.10)

Forest Research corporate plan 2005–08 (free)

Leaflets, brochures and books

A guide to using woodland for sediment control by Tom
Nisbet, Harriet Orr* and Samantha Broadmeadow (free)

Exotic pest alert: *Emerald ash borer, Agrilus planipennis*
Fair maire (free)

Exotic pest alert: *Phytophthora ramorum*, Sudden Oak
Death (free)

*A sort of magical place: people's experiences of woodlands
in northwest and southeast England* by Liz O'Brien
(£10.00)

*Accessibility of woodlands and natural spaces: addressing
crime and safety issues* by Liz O'Brien and Paul Tabbush
(£7.00)

*The forestry woodchain: quantifying and forecasting quality
from forest to end product. Abstracts of conference
presentations and posters, Heriot-Watt University,
Edinburgh, 28–30 September 2004* edited by Jenny
Claridge and Tim Randle (£10.00)

Woodfuel Information pack
Duncan Ireland, Andy Hall and David Jones (£10.00)

Published by FC Corporate Forestry Services

The various series of technical publications listed below are
published for the Forestry Commission by Corporate
Forestry Services. New titles are listed here as authors are
mainly from Forest Research.

Conference proceedings, books and reports

Managing the pinewoods of Scotland edited by Bill Mason,
Alan Hampson* and Colin Edwards (£25.00)

*Managing woodlands and their mammals: proceedings of a
symposium organised jointly by the Mammal Society and
the Forestry Commission* edited by Chris Quine, Richard
Shore* and Roger Trout (£12.50)

*Public participation and partnership: a review of Forestry
Commission practice and governance in a changing
political and economic context* (Social science in forestry)
by Sue Weldon* in collaboration with Paul Tabbush (free)

Information Notes (free)

- 6 *Phytophthora disease of alder*. Revised December
2004. Joan Webber, John Gibbs and Steven Hendry
- 57 *Conservation of black poplar (Populus nigra L.)*
Joan Cottrell
- 58 *The products of conifer tree breeding in Britain*
Steve Lee
- 59 *Advances in biotechnology: powerful tools for tree
breeding and genetic conservation*
Steve Lee, Joan Cottrell and Allan John
- 60 *International markets in wood products*
Michael Thomson
- 61 *Managing the threat to restocking posed by the large
pine weevil Hylobius abietis: the importance of time of
felling of spruce stands* Roger Moore
- 62 *Forest condition 2003*
Steven Hendry, Jane Poole, Ian Craig and John
Proudfoot
- 63 *Managing light to enable natural regeneration in
British conifer forests*
Sophie Hale
- 64 *'Proving it!' Evidence gathering for forest managers*
Suzanne Martin and Liz O'Brien

Practice Guide

- 16 *Creating new broadleaved woodland by direct seeding*
Ian Willoughby, Richard Jinks, Peter Gosling and
Gary Kerr (£6.00)

Technical Guide

*Winching operations in forestry: tree takedown and vehicle
debugging* Duncan Ireland (£6.00)

Technical Note (free)

- 8 *Excavator mound spacing on restocking sites*
Steve Morgan and Duncan Ireland

*Authors outwith the Agency.

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National and international links

The two maps reflect the range of networks we have been generating both nationally and internationally. The national map (Figure 1) shows FR's links with a wide range of UK universities and associated scientific organisations. The international map (Figure 2) shows our extensive links across Europe; in addition to this we have wider global links with New Zealand, USA, Canada and China.

National

Many of our programmes, individual and collaborative, are funded by other government agencies, UK research councils, universities and commercial organisations; these include Defra, DTI, NERC, SNH, English Nature, the Environment Agency, and the Universities of Sheffield, Southampton and London. We also collaborate with other universities countrywide, including Aberdeen, Edinburgh, Napier, Stirling, Lancaster, Bangor, Cardiff, Oxford, Cambridge, Exeter, Portsmouth, Reading, Surrey and Sussex.

Figure 1

UK links.





Figure 2

European links.

International

Key European links include:

- INRA, France
- Brussels Free University, Belgium
- BBA, Germany
- INIA, Portugal
- Department of Forest Protection, Austria
- CSIC in Spain
- JRC in Italy
- METLA in Finland

Further across the globe we are working with:

- USDA in several areas of the USA
- SCION in Rotorua, New Zealand
- Canadian Forest Service, e.g. Victoria, British Columbia
- Forestry University Beijing, China
- Madeira National Park, Madeira

Major research programmes undertaken by Forest Research

Programmes funded by the Forestry Commission

Biometrics, Surveys and Statistics Division

Sample plots

John Proudfoot

Develop and maintain national reserve of periodic growth and yield data to support measurement, growth and yield studies using a network of permanent and temporary sample plots. Current focus: contemporary silvicultural practices, uneven-aged planting mixtures, modern planting and harvesting systems, long-term environmental change monitoring.

Yield models

Robert Matthews

Improve methods and models for forecasting growth and yield of forests. Current focus: development of interactive stand-level yield model software, site: yield relationships, biomass yield models.

Measurement

Ewan Mackie

Develop and promote measurement systems and instruments for the accurate and efficient measurement of trees and timber to support industry, national and international standards. Provide independent expert advice in cases of measurement dispute.

Core model

Sam Evans

Integrate modelling initiatives within Forest Research by developing a framework of existing and new models and relevant datasets. Taking growth models as a starting point, the core model programme aims to provide modelling tools at appropriate scales of resolution to support and promote the implementation of multi-purpose sustainable forestry policy in the UK.

Remote sensing

Juan Suárez

Evaluate the potential of remote sensing techniques for operational use in British forest management.

National inventory of woodlands and trees

Steve Smith

Undertake the FC national survey of woodland and trees, assessing the woodland cover. Update key statistics on forest type, species, age-class, management and ownership.

Inventory GIS development

Graham Bull

Create the digital woodland map for Britain. Develop the use of GIS for providing spatially referenced data on the woodland cover of Great Britain.

Private sector production forecast

Justin Gilbert

Develop and produce the private sector production forecast incorporating new woodland data from the national inventory.

Ecology Division

Lowland native woods

Ralph Harmer

Examine methods for managing, regenerating and extending lowland native woodlands.

Biodiversity evaluation and indicators

Jonathan Humphrey

Synthesise datasets from the biodiversity assessment project, identify potential biodiversity indicators, and disseminate findings.

Forest habitat management

Jonathan Humphrey, Russell Anderson and
Helen Armstrong

Investigate and provide guidance on the management of forests for biodiversity through developing old growth stands, utilising cattle grazing and managing open ground habitats.

Species Action Plans

Alice Broome, Roger Trout, Chris Quine and
Brenda Mayle

Undertake research in support of Forestry Commission commitments to the species Biodiversity Action Plans and provide advice on appropriate management of woodland habitats for these species.

Landscape ecology

Kevin Watts and Chris Quine

Improve understanding of how biodiversity responds to management at the landscape scale, and translate this into practical management guidance for forest design.

Ecological site classification and decision support systems

Duncan Ray

Research, build and test models that predict the effect of forest management on forest ecology, and develop decision-making tools for ecological site classification and forest biodiversity.

Squirrel management

Brenda Mayle

Develop cost-effective means of managing the impact of grey squirrels on timber production. Investigate the impact of grey squirrels on woodland biodiversity.

Deer population ecology and management

Robin Gill, Helen Armstrong and Brenda Mayle

Provide a sustainable basis for deer management in UK woodlands by investigating and developing new techniques and models of impacts and damage, population dynamics of deer, and deer density assessment.

Tree protection

Roger Trout

Develop techniques and materials for cost-effective protection of trees and woodlands from vertebrate damage.

Improvement of broadleaves

Ned Cundall

Selection/testing of selections at population, family and clonal level: oak, ash, sycamore, beech, birch.

Genetic conservation

Joan Cottrell

Study of genetic variation and gene flow in natural populations. Assessing the level of adaptive variation in the field trials of populations of native species.

Environmental and Human Sciences Division

Soil sustainability

Elena Vanguelova

Research to identify and evaluate the potential impacts of both forest management and air pollution on soil status and dynamics. Develop and advise upon sustainable practices.

Reclamation of man-made sites for forestry

Andy Moffat, Tony Hutchings and Danielle Sinnett

Improve methods of establishing woodland and management practices on disturbed (brownfield) sites, taking into account changes in forestry and land-use policy, planting opportunity, environmental impacts, mining practices and technology. Develop best practice guidelines.

Forest hydrology

Tom Nisbet

Study the impacts of forests and forestry management practices on water quality and quantity. Develop and assess guidance on best management practice for the protection of the freshwater environment within forests. Provide expert advice on forestry-water issues.

Effects of air pollution on trees

Dave Durrant and Andy Moffat

Determine the role of air pollution in forest condition and growth through long-term intensive environmental monitoring in forest ecosystems, in compliance with EC regulations. Provide data under the Convention on Transboundary Air Pollution for the calculation and mapping of critical loads.

Climate change

Mark Broadmeadow

Predict and model the impacts of climate and wider environmental change on tree growth by experimental work in open-top chambers and in forest stands. Interpret published climate change scenarios and develop guidance on future species suitability, both for production woodland management and native woodland restoration. Identify interactions between forests, woodland management and the changing global environment.

Carbon

Mark Broadmeadow

Develop a network for monitoring carbon stocks and stock changes of woodland in the UK. Maintain one of only three long-term carbon flux monitoring stations in woodland in the UK, measuring carbon fluxes and constructing a carbon budget for a stand of lowland broadleaf woodland. Research the contribution that wood (including bioenergy production) and wood products can make to climate change mitigation.

Environmental change network

Sue Benham

Monitor and understand environmental change and its impact on terrestrial ecosystems. Manage one of the national ECN terrestrial sites.

Historic environment

Peter Crow

Develop methods, tools and guidance to aid the day to day management of historic environment features such as archaeological evidence, veteran trees and historic woodlands/landscapes.

Social Research

Paul Tabbush, Elizabeth O'Brien, Max Hislop and Suzanne Martin

Examine relationships between communities and woodlands in support of FC policies on sustainable forest management. Work concentrates on community involvement, publicly held values, health and well-being, criteria and indications of sustainability, recreation, access and rural development.

Forest Management Division Incorporating Technical Development

Integrated establishment systems for the uplands

Alan Harrison, Mike Perks and Colin McEvoy

Integrated studies of the effect of nursery practice, seedling physiology, plant handling methods, site preparation and maintenance upon tree establishment.

Silvicultural effects on timber quality

Barry Gardiner, Jason Hubert, Elspeth Macdonald and Shaun Mochan

Investigate the impact of silvicultural practices on timber quality in conifers, especially spruce. Main emphasis is impact of site factors (e.g. exposure, fertility) on quality.

Silviculture of upland native woodlands

Richard Thompson and Colin Edwards

Research into the structure, dynamics and silviculture of native woodland ecosystems in northern and western Britain to support restoration and extension for ecological and economic benefits. Emphasis is on Scots pine forests, birchwoods and the Atlantic oakwoods.

Alternative silvicultural systems in conifer forests

Bill Mason, Colin Edwards and Sophie Hale

Evaluate canopy structure manipulation to promote suitable microclimates for seedling establishment and facilitate natural regeneration to enable wider use of alternative silvicultural systems to patch clearfelling (continuous cover forestry).

Stability of stands

Barry Gardiner, Bruce Nicoll, Alexis Achim and Juan Suárez

Research to reduce wind damage to British forests using a GIS-based windthrow risk model for predicting the probability of windthrow in Sitka spruce forests. Carry out studies of root development and architecture in support of the model.

Alternative establishment systems

Ian Willoughby and Richard Jinks

Investigate alternatives to conventional establishment systems for new planting and regenerating existing woodlands, including vegetation management, reducing synthetic chemical inputs and direct seeding.

Energy coppice and poplar research

Ian Tubby

Investigate dry matter yields of willow and poplar coppice grown for renewable energy.

Silvicultural systems

Gary Kerr

Examine the potential for diversifying the range of silvicultural systems used in native woodlands.

Seed and seedling biology

Peter Gosling and Richard Jinks

Improve tree seed quality and performance to reduce costs and increase reliability of direct seeding and natural regeneration.

Selection and testing of conifers

Steve Lee

Undertake plus-tree selection, progeny testing.
Breeding/production populations. Demonstration of realised gain. Development of techniques for marker aided selection. Species involved: Sitka spruce, Scots pine, Corsican pine, Douglas fir, larch.

Breeding and production of conifers

Steve Lee

Clonal archives: conservation, advanced breeding material.
Improved seed: controlled pollination, seed orchards.

In vitro propagation and phase-change biotechnologies

Allan John

Investigate tissue culture systems for multiplication of Sitka spruce.

Forest Reproductive Material Regulations

Sam Samuel

Devise methods for inspection of material proposed for registration. Maintain the National Register of Basic Material.

Origin and provenance of conifers

Sam Samuel

Identification of suitable origins of conifer species. Key species: Sitka spruce, Douglas fir.

Technical Development

Large-scale forestry harvesting

Colin Saunders

Evaluate machinery and equipment, produce output guidance and investigate operational techniques relevant to large-scale forestry work in harvesting.

Large-scale ground preparation, seed sowing and planting

Steve Morgan, Andy Hall and Bill J. Jones

Evaluate machinery and equipment, produce output guidance and investigate operational techniques relevant to large-scale forestry work in ground preparation and planting.

Farm and small-scale silviculture/harvesting and utilisation of small woodlands

Andy Hall and Duncan Ireland

Develop methods and assess equipment with low environmental impact suitable for use in small, generally broadleaved woodlands, and suitable for use by farmers and small contracting firms.

Forestry operations on derelict and reclaimed land

Bill J. Jones

Undertake focused research into the cost-effectiveness of restoration techniques, with an emphasis on system and cost advice on techniques recommended by scientists.

Wood for energy

Andy Hall, Paul Webster and Duncan Ireland

Develop methods for using short rotation coppice, single-stemmed short rotation forestry, forestry residues and existing undermanaged woodlands for small-scale heating and small- or large-scale electricity generation.

Chemical weeding

Bill J. Jones

Evaluate equipment, application techniques and safety.

Reduction in the use of chemicals

Bill J. Jones and Paul Webster

Examine equipment and methods that offer opportunities for non-chemical weed control.

Health and safety

Bill M. Jones and Colin Saunders

Review techniques and procedures for management of health and safety of machine operators.

Tree Health Division

Plant health

Hugh Evans, Nick Fielding and Christine Tilbury

Research into the risks from indigenous and non-indigenous forest insect species. Co-ordination and implementation of surveys in relation to retention of EU Protected Zone status for named bark beetle pests. The use of Pest Risk Analysis techniques to determine contingency options for potential pests. Research into alternatives to methyl bromide as a quarantine and remedial treatment against exotic pests (part EU-funded).

Restocking pests

Stuart Heritage

Research into the effective use of chemical pesticides for control of restocking pests, notably *Hylobius abietis*. Research into and development of insect parasitic nematodes for biological control of larval stages in stumps and provide direct intervention options within the Integrated Forest Management programme being developed in the Division.

Impact of insects on tree growth

Nigel Straw

Investigate quantitative relationships between insect population pressure and the growth of trees attacked by those insects. An important aim is to separate the direct effects of damage from other biotic and abiotic variables that might mask the impacts of pest insects. The target species is green spruce aphid, *Elatobium abietinum*, which severely defoliates Norway and Sitka spruces.

Integrated Forest Management

David Wainhouse, Roger Moore and Hugh Evans

Develop the concepts and science of Integrated Forest Management (IFM) to underpin sustainable forestry with particular emphasis on reductions in chemical pesticides. Study the population dynamics of *Hylobius abietis* and use the data to develop decision support systems for management of the restocking problem. Investigate the variability in quality of both stumps and transplants in relation to performance of *H. abietis* and use the data to refine management options within the IFM programme. Develop a decision support system for sustainable reduction of *H. abietis* populations towards the acceptable damage threshold predicted by the population dynamics models.

Mechanisms of tree resistance to insect attack

David Wainhouse

Investigate mechanisms of resistance of young conifers to the pine weevil. Determine the relative importance of genetic and environmental factors in resistance expression. Develop these aspects to contribute to an Integrated Forest Management approach for control of pine weevil.

Advisory services

Christine Tilbury

Provide identification services for both pest and beneficial insects and provide advice on pest management and control.

Tree diseases: diagnosis and provision of advice

David Rose and Sarah Green

Diagnose disease in trees and provide advice and information on disease identification, management and control. Provide information on decay in standing trees, and on management of veteran trees.

Tree health monitoring

Steven Hendry

Monitor the health of the nation's trees and raise awareness of tree health issues.

Risks from altered pathogens

Clive Brasier

Investigate changes in pathogen behaviour and evaluate the potential impact of such changes in relation to plant health and Pest Risk Analysis.

Non-chemical protection

Joan Webber

Research and evaluate the potential for biological control of tree diseases, with special emphasis on root rot pathogens and the fungi that cause vascular wilts and stain and decay.

Fomes root and butt rot of conifers

Katherine Thorpe

Conduct research on root and butt rot of conifers caused by *Heterobasidion annosum* and investigate approaches to management and control.

Phytophthora diseases of trees

Clive Brasier, Joan Webber and Sandra Denman

Investigate pathogenic *Phytophthora* species of alder and oak to determine their impact and the opportunities for management and control.

Programmes part funded by the European Commission

Application of cDNA Microarray Technology for unravelling molecular events underlying dormancy and cold hardiness in forest tree seedlings.

Ash for the future: defining European ash populations for conservation and regeneration.

Compression wood in conifers.

Demonstration of sustainable forestry to protect water quality and aquatic biodiversity.

Mechanised logging operations.

Development of improved pest risk analysis techniques for quarantine pests, using pinewood nematode *Bursaphelenchus xylophilus* in Portugal as a model system.

Eco-engineering and conservation of slopes for long-term protection from erosion, landslides and storms.

Forecasting the dynamic response of timber quality to management and environmental change.

Forest condition surveys.

Forest Focus review.

Gene flow in oaks.

Improving ash productivity for European needs by testing selection, propagation and promotion of improved genetic resources.

Integrating ecosystem function into river quality assessment and management.

Intensive monitoring of forest ecosystems.

Urgent conservation management for Scottish capercaillie.

Visualisation tools for public participation in the management of landscape change.

Risk analysis for *Phytophthora ramorum*.

Timber cladding, northern periphery.

Biomass based climate change mitigation through renewable energy.

Reintegration of coal ash disposal sites and mitigation of pollution in the West Balkan area.

Programmes funded by individual organisations

Carbon Trust
Heat treatment of timber.

CCW/FCW
Woodland habitat network strategy for Wales.

Department for Environment, Food and Rural Affairs
Species boundaries on *Phytophthora*.

Yield models for energy coppice of poplar and willow.

Department of Trade and industry
Yield models for energy coppice of poplar and willow.

English Nature
Woodland restoration – comparison of inventory data.

Environment Agency
CCF – environmental good practice.

Phytophthora disease of alder.

EPSRC/Sheffield
Urban greening.

Novel compost.

Climate change.

INRA
Interaction between winds and forests.

Madeira National Park
Mammal control.

Natural Environment Research Council/Imperial College
Terrestrial carbon dynamics.

Office of the Deputy Prime Minister
Monitoring the health of non-woodland trees.

Scottish Forestry Trust/UK Forest Products Association/Tilhill Economic Forestry/Scottish Woodland Owners Association
Assessing log quality in Sitka spruce.

Scottish Natural Heritage
Balancing upland and woodland strategic priorities.

Forest habitat network.

SCRI
Woodcore samples.

Sheffield University
CTCD data management.

Southampton University
Short rotation coppice (poplar).

USDA
Phytophthora ramorum.

Research contracts awarded by Forest Research

Avon Vegetation Research
Forestry herbicide evaluation.

Butterfly Conservation
Study of small pearl-bordered fritillary populations in
Clocaenog Forest.

Cranfield University, BHR Group
Development and production of prototype systems to
separate insect parasitic nematodes from rearing media.

Environment Agency (Wales)
Effects of forestry on surface water acidification.

Fountain Forestry
Water monitoring, Halladale.

Freshwater Fisheries Laboratory
Effects of riparian forest clearance on fish populations.

Imperial College, London
Control of decay in utility poles.
Development of a biological control agent for Dutch elm
disease.
Conservation of Xylophagous beetles and their parasitoids
in Britain's woodlands.

Macaulay Land Use Research Institute
Sustainability of afforestation development, Halladale.

Mountain Environments
Investigation of the long-term effects of forest
management on upland catchments (Balquhidder).

Scottish Environment Protection Agency
Effects of forestry on freshwater fauna.

University of Abertay, Dundee
Cryopresentation of Sitka spruce tissues.

University of Birmingham
Woody debris in forest aquatic habitats.

University of Bristol
Use of landscape features and habitats by lesser
horseshoe bats: management implications.

University of Leeds
Atmospheric boundary layer over forests.
Chemical transport in forests.

University of Reading
Tree root response to acidification.
Soil variability.

Soil quality indicators in forestry.

University of Southampton
Water and fine sediment transport in rivers with wooded
floodplains.

Molecular studies of quantitative traits in Sitka spruce.

University of Stirling
Habitat use of working forest by capercaillie.

Paleoecology of Glen Affric.

Identification and analysis of spider samples obtained from
Forest Research's Biodiversity Assessment plots.

University of Sussex
Biochemical mechanisms for plants to act as sinks for
atmospheric pollutants.

Drought tolerance in poplars.

University of Ulster
Feeding ecology of the large pine weevil.

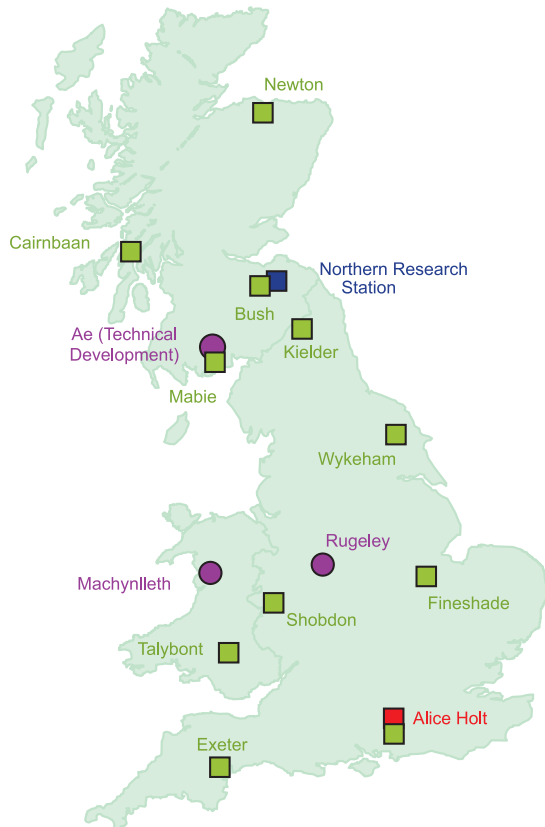
Impact of defoliating insects on forests.

University of York
Carbon stocks in UK soils and their vulnerability to climate
change.

Forest Research people

Staff as at 31 March 2005, in Divisions and
Technical Services based at:

- Alice Holt
- Northern Research Station
- Ae Village, Midlands and Wales
- Field Stations



Chief Executive

- Professor Jim Lynch, BTech, PhD, DSc, CSci, CChem, FRSC, CBiol, FIBiol, FIBiotech, FRSA

Chief Research Officer

- Professor Peter Freer-Smith, BSc, PhD, DSc

Personal Secretaries

- Claire Holmes*
- Sue Jones, BA, MA*
- Sue Stiles

Head of Northern Research Station

- Chris Quine, MA, MSc, MICFor, PhD

Personal Secretary

- Madge Holmes

Quality Assurance Manager

- Kate Fielding

*Denotes part-time.

Human Resources and Administration

- Ken Charles, FMS, *HR and Administration Director*
- Christopher Baker, BSc
- Andrew Davies
- Wendy Groves
- Janet Lacey
- Heather Russell*
- Mandy Sennett*
- Sally Simpson*
- Amanda Smith*
- Mike Wheeler
- Maureen Wilkes*
- Mike Young
- Martin Abrahams, *Head of Administration at NRS*
- Gerry Cockerell
- Evelyn Hall
- Esther Ker
- Linda Legge
- Roz Shields*

Finance and IT

- Tony Cornwell, FCMA, *Finance and IT Director*
- Jane Smyth, BSc
- Laura Caless
- Dai Jeffries, BSc
- Carol Knight*
- Timothy Knight, BSc
- Carole Martin
- Corinne Russell
- Janet Turner
- Wayne Blackburn, BSc
- Alec Gaw, BSc*

Communications

- Xanthe Christophers, BSc, PhD, *Communications Director*
- Jenny Claridge, BSc, ARCS
- George Gate
- David Georgiou, BA
- Eleanor Harland, MA, DipLib
- Alison Melvin, BA
- Catherine Oldham, BA, MA, DipLib, MCLIP
- Thelma Smalley*
- Sally Taylor
- John Williams
- Glenn Brearley
- Kirsten Hutchison, MA

KEY: ■ Alice Holt ■ Northern Research Station ● Ae, Midlands and Wales ■ Field Stations

Biometrics, Surveys and Statistics Division

- Professor Sam Evans, MA, PGDip, PhD, PhD,
Head of Division
- Catia Arcangeli, MSc, PhD
- Miriam Baldwin, HND, BSc, MSc
- Eric Casella, MSc, PhD
- Joy Cornwell
- Ian Craig
- Carol Foden*
- Paul Henshall, BSc
- Tracy Houston, BSc, MIS
- Makihiko Ikegami, BSc, MSc, PhD
- Ewan Mackie, BSc, MSc
- Robert Matthews, BSc, MSc
- Geoff Morgan, BSc, MSc, PhD
- Lyn Pearce*
- Jane Poole, BSc, MSc
- John Proudfoot
- Tim Randle, BSc
- Marc Sayce
- Paul Taylor, MA, MSc, MPhil
- Ian Tubby, BSc
- Christopher Vials, BSc
- Stephen Bathgate, BSc, BSc, PGDip
- Christine Brown
- Graham Bull
- Shona Cameron
- Lynn Connolly*
- Tom Connolly, BSc, PhD
- Justin Gilbert, BSc
- Daniel McInerney
- Andrew Peace, BSc
- Lynn Rooney*
- Juan Suárez-Minguez, BSc, MSc
- Esther Whitton

Ecology Division

- Chris Quine, MA, MSc, MICFor, PhD, *Head of Division*
- Stuart A'Hara, BSc, MSc, PhD
- Russell Anderson
- Helen Armstrong, BSc, PhD
- Heather Bishop
- Alice Broome, BSc
- Tracy Brown, BSc, MSc
- Robert Coope
- Joan Cottrell, BSc, PhD
- Jason Hubert, BSc, PhD
- Jonathan Humphrey, BSc, PhD
- Liz Poulson, MSc
- Duncan Ray, BSc
- Louise Sing, BA, MSc
- Richard Thompson
- Andy Brunt
- Helen Chester
- Mark Ferryman
- Robin Gill, BSc, MSc, PhD

- Matthew Griffiths, BSc, MSc
- Ralph Harmer, BSc, PhD
- Andrea Kiewitt, BSc, MSc
- Brenda Mayle, MSc
- Jacqui Neal
- Roger Trout, BA, PhD
- Kevin Watts, BSc, PhD

Environmental and Human Sciences Division

- Andy Moffat, BSc, PhD, *Head of Division*
- Lorraine Adams, BSc
- Nadia Barsoum, BSc, PhD
- Sue Benham, BSc
- François Bochereau, BSc, MSc
- Mark Broadmeadow, BSc, PhD
- Samantha Broadmeadow, BSc, MSc
- Sylvia Cowdry*
- Peter Crow, BSc, MSc
- Cecile De Munck, BSc, MSc
- Dave Durrant, BA
- David Edwards, BSc, MSc, MSc, PhD
- Tony Hutchings, MSc
- Lorna Johnstone
- Caroline Kilbride, BSc
- Anthea McRiley, BSc
- Tom Nisbet, BSc, PhD
- Liz O'Brien, BSc, PhD
- Tom Ormesher, BSc
- Rona Pitman, BSc, PhD
- Geoffrey Sellers, BSc, MSc, PhD
- Danielle Sinnott, MSc
- Paul Tabbush, BSc, MSc, FICFor
- Huw Thomas, BSc, MSc
- Rene van Herwijnen, MSc, PhD
- Elena Vanguelova, BSc, MSc, PhD
- Ernest Ward, BSc, MSc, CChem, MRSC
- Christine Whitfield*
- Matthew Wilkinson, BSc, MSc
- Matthew Williams, BSc
- Elizabeth Young, BSc
- Max Hislop, MICFor
- Suzanne Martin, BSc, PhD

*Denotes part-time.

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Forest Management Division Incorporating Technical Development

- Bill Mason, BA, BSc, MICFor, *Head of Division*
- Professor Barry Gardiner, BSc, PhD, FRMetS
- Allan John, BSc, PhD
- Steve Lee, BSc, PhD, MICFor
- Sam Samuel, BSc, PhD
- Bruce Nicoll, BSc
- Elspeth MacDonald, BSc, MSc
- Colin Edwards, BSc
- Alan Harrison, BSc
- Sophie Hale, BSc, PhD
- Mike Perks, BSc, MSc, PhD
- Shaun Mochan, MSc
- Rob Sykes
- Alexis Achim, BSc
- Cathleen Baldwin
- Colin McEvoy, BA
- Matilda Crumpton Taylor
- Jenna Tadman
- Rachel Parsonson
- Stephane Berthier, PhD
- Vicky Cunningham, BSc
- Peter Gosling, BSc, PhD
- Lorelie Ives
- Richard Jinks, BSc, PhD
- Gary Kerr, BSc, FICFor, PhD
- Matt Parratt, BSc
- Victoria Stokes, BSc, PhD
- Christine Woods, BA
- Ian Willoughby, BSc, MBA, MICFor

Technical Development

Ae, Scotland

- Bill Jones, *Head of Technical Development*
- Bill J. Jones
- Steve Morgan
- Finlay McAllister, BA, BSc
- Ian Murgatroyd
- Norma Nicholson*
- Joyce Rammell, BSc
- Colin Saunders

Midlands

- Andy Hall
- Duncan Ireland, BSc
- Paul Webster

Wales

- David Jones, EngTech, AMIAgrE

Tree Health Division

- Hugh Evans, BSc, DPhil, FRES, *Head of Division*
- Professor Clive Brasier, BSc, PhD, DSc, Emeritus
- Sara Brough, BSc
- Anna Brown, BSc, PhD
- Sandra Denman, BSc, MSc, PhD
- Gillian Green, BSc*
- Anthony Jeeves
- Martin Jukes, CBiol, MIBiol
- Susan Kirk
- Carol Lishman*
- Elizabeth Orton, BA, MSc
- David Rose, BA
- Joan Rose
- Shirley Stephens*
- Nigel Straw, BSc, PhD, FRES
- Christine Tilbury, BSc
- Kath Thorpe, BA, MSc, DPhil
- David Wainhouse, MSc, PhD, FRES
- Joan Webber, BSc, PhD
- David Williams, BSc, PhD
- Sarah Green, BSc, PhD
- Steven Hendry, BSc, PhD
- Stuart Heritage, MBA, CBiol, MIBiol
- Grace MacAskill
- Roger Moore, BSc, PhD
- Heather Steele, BSc*

Field Stations

Technical Services Unit

- Janet Dutch, BSc, PhD, *Head of Unit*

North

Engineering Services

- David Brooks, *Head of Engineering Services*
- James Nicholl
- John Strachan

Bush, Inver and Bush Nursery

- David Anderson, *Head of Stations*

Bush

- Colin Gordon
- Hamish Howell
- Nelson Innes
- Gavin Mackie
- Steven Osborne, BSc
- Steven Sloan

Inver

- Nick Evans
- Bill Rayner

*Denotes part-time.

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Publications, national and international links,
research programmes, contracts, and people

Bush Nursery

- David Clark, *Nursery Manager*
- John Armstrong
- Graeme Crozier
- Alan Purves

Cairnbaan

- Dave Tracy, BSc, *Head of Station*
- Pauline Simson, BSc

Kielder and Mabie

- Dave Watterson, *Head of Stations*

Kielder

- Terry Gray
- Mike Ryan
- Len Thornton

Mabie

- James Duff
- Joanna McGregor*
- Harry Watson
- James White

Newton and Lairg

- Alistair MacLeod, *Head of Stations*

Newton

- Hazel Andrew*
- Allison Cowie
- Andrew Kennedy, BSc
- Fraser McBirnie
- Stuart McBirnie
- Hugh MacKay, BSc
- Stephen O'Kane
- Colin Smart

Lairg

- Alexander Bowran
- Calum Murray
- Duncan Williams

South

Alice Holt

- Jamie Awdry
- Bob Bellis
- Sue Bellis
- Tony Bright
- Rory Cobb
- Norman Day
- Kate Harris
- Steve Coventry
- Ian Keywood

- Vicky Lawrence
- Tony Martin
- Doug Nisbet
- Jim Page
- Bill Page

Alice Holt Workshop

- John Davey
- Mike Johnstone

Exeter

- Alan Ockenden
- Anthony Reeves
- Barnaby Wylder*

Fineshade and Thetford

- Dave West, *Head of Stations*
- Elizabeth Richardson

Thetford

- John Lakey
- Paul Turner
- Alistair Whybrow
- Steven Whall

Shobdon

- Nick Fielding, *Head of Station*
- Jason Jones
- John Price
- Sharon O'Hare*

Talybont

- Chris Jones, BSc, *Head of Station*
- Lyn Ackroyd*
- Sam Catchpole, BSc
- Justin Chappell
- Dai Evans
- Carl Foster
- Ben Griffin, BSc
- Richard Kedde
- Tony Price
- Rachel Sparks
- Ken Williams
- Colin Clayton

Wykeham

- Nicola Corney
- Alex Hill
- Patricia Jackson
- William Riddick

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PhD Students linked with Forest Research

Sarah Archibald (Imperial College London)
David Beattie (Imperial College London)
Sophie Bertin (University of Edinburgh)
Helen Billiald (Sussex University)
Lois Canham (University of Stirling)
Fiona Caryl (University of Stirling)
Vanessa Castan-Broto (University of Surrey)
Jo Clark (University of Wales, Bangor)
Julia Cox (Surrey University)
Lauren Crawford (Imperial College London)
Richard Curtis (University of Gloucester)
Monica De Ioanni (University of Molise)
Heike De Silva (University of Aberdeen)
Hannah Drewitt (University of Durham)
Helen Ellison (Imperial College)
Ruth Fitzgerald (Reading University)
Priya Gadepalle (University of Surrey)
Samantha Gale (Abertay University)
Rachel Gaulton (Edinburgh University)
Caroline Hacker (Imperial College London)
Nicole Harris (Southampton University)
Iain Hartley (University of York)

Jack Johnston (Ulster University)
Tessa Knight (University of Bristol)
Bruce Lamond (Edinburgh University)
Lucy Marchant (Reading University)
Paul McLean (University of Glasgow)
Jo Mortimer (Reading University)
Gloria Olaya (Edinburgh University)
Vini Peteira (Imperial College London)
Jennifer Seaman (University of Sheffield)
Helen Sellars (University of Liverpool)
Tim Silverthorne (University of Surrey)
Juan Suárez-Minguez (University of Sheffield)
Suzanne Swanwick (Cranfield University)
Janine Tan (Ulster University)
Louise Timms (Imperial College London)
Alessandra Timarco (Reading University)
Ed Wallington (Edinburgh University)
Axel Wellpot (University of Edinburgh)
Jeremy Wingate (University of Surrey)
Georgios Xenakis (Edinburgh University)

Research associate

Steve Petty, PhD