





Resilient Forests Research Programme

The Resilient Forests Research
Programme started in October
2019. It filled the gap left by the
Growing Confidence in Forestry's
Future (GCFF) and Healthy Trees,
Healthy Future (HTHF) research
programmes.



Building on the rich heritage of research undertaken in the 'Healthy Trees, Healthy Future' and 'Growing Confidence in Forestry's Future' research programmes the Resilient Forests programme was co-developed with our forest industry stakeholders with the goal of creating and managing forests that are more resilient to future uncertainty.

The new programme also capitalises on previous investments in research infrastructure. For example, new long-term forest management trials designed to increase productive capacity of radiata pine plantations. This research programme addresses key research questions raised by the GCFF and HTHF programmes.

The Resilient Forests programme is structured around three research aims, addressing key research questions designed to ensure the long-term economic, environmental and social sustainability of forestry by creating forests that are more resilient to future uncertainty.

To date, the programme has received combined funding from the Forest Growers Levy Trust and Scion's Strategic Science Investment Fund to the order of \$16.15m. The intent is for the programme to continue until 2025.

RA1 - Managing risk and uncertainty

Portfolio approaches to manage risks of climate change, markets, disease, and public concerns.

Tools and frameworks for anticipating climate threats.

Shorter rotations and market (wood quality) risk.

Chemical use and social risk.

De-risking forest investment

Microbiome and

management.

Integrating disease

and biotic risk

into growth

models.

RA2 - Enhanced productivity and quality

Improving forest nutrition.
Improving uniformity,
productivity and stand
dynamics.

RA3 - Enhanced resilience to biotic disturbance disease risk.

Epidemiology of needle diseases.

Tools for disease surveillance and monitoring.

Quantifying disease impact.

Key Areas

The structure of the programme and the focus areas in each research aim are shown below.

Initial results from the focus areas were presented at the online Forest Growers Research annual conference in October 2020 and again in 2021. Key publications and FGR Conference presentations can be found on the FGR website.

RFP Technical Notes. https://fgr.nz/rfp-technical-notes RFP Technical Reports. https://fgr.nz/rfp-technical-reports Conferences. https://fgr.nz/programmes/conferences

Planning is under way for a Conference in Rotorua in June 2023.



Contact information

Peter Clinton Resilient Forests Research Programme Leader peter.clinton@scionresearch.com

Grace Villamor RA1 - Managing risk and uncertainty grace.villamor@scionresearch.com

Yvette Dickinson RA2 - Enhancing productivity and quality yvette.dickinson@scionresearch.com

Stuart Fraser RA3 - Enhanced resilience to biotic disturbance stuart.fraser@scionresearch.com

Alison Wilson Project Delivery Manager alison.wilson@scionresearch.com







About Scion

Scion is the Crown research institute that specialises in research, science and technology development for forestry, wood and wood-derived materials, and other bio-material sectors.

Scion's purpose is to create economic value across the entire forestry value chain, and contribute to beneficial environmental and social outcomes for New Zealand.