



Nectria Flute Canker Research Programme

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Goal 1

- **To understand the cause, effects, and distribution of Nectria Flute Canker such that mitigation goals can be pursued with confidence**



Goal 1 – activities completed or underway

- Preliminary evaluation
- *Nectria fuckeliana* identification
- Literature review
- Sampling methodologies
- Local field survey
- Regional incidence survey
- Delimiting survey
- National incidence survey
- Disease ecology



Goal 1 – proposed activities

- Regional incidence survey review



Goal 2

- **To identify and characterise critical influences affecting tree susceptibility and disease development**



Goal 2 – activities completed or underway

- Thinning assessment
- Silvicultural trial
- Infection inhibition trial
- Regional incidence survey (see Goal 1)
- Genetic resistance research



Goal 2 – proposed activities

- Genetic resistance trial
- Cuttings trial
- Alternative silvicultural prescriptions
- Infection inhibition
- Harvesting survey



Goal 3

- **To distinguish those factors susceptible to manipulation and likely to influence disease development, from those of lesser potential, to form the focus of a management strategy**



Goal 3 – activities completed or underway

- Interim pruning strategy
- Silvicultural trial data analysis



Goal 3 – proposed activities

- Field guide to symptoms



Goal 4

- To identify and progress actions and activities which minimise the risk of either New Zealand or our trading partners placing restrictions on current and future forest management and trading activities**



Goal 4 – activities completed or underway

- Disease vectoring
- Rate of spread
- Ecological data
- Communication with MAF



Goal 5

- **To formulate an ‘on the ground’ strategy which will reduce disease impact to within acceptable limits**



Goal 6

- **To implement a management strategy which effectively reduces present and future damage to an acceptable level at an affordable cost**



Where the fundings are going

Survey (delimiting, regional incidence, national incidence, sampling protocols, diagnostics)	\$127,000
Ecology (post doc and support, FR)	\$137,000
Genetics (trial assessments, trial establishment)	\$22,000
Silvicultural trial (treatments, field assessments, analysis)	\$60,000
Seedling/cuttings trial (field trials, glasshouse trials)	\$25,000
Other species evaluation	\$10,000
Project management	\$10,000
Historical costs (problem evaluation, strategy, silvicultural trial, field assessments, literature review, project management, meetings etc.)	\$130,000
Total cost (conservative)	\$521,000



Where the fundings are coming from

Nectria Working Group	\$110,000 + (\$130,000 spent)
FBRC	\$152,000
FRST (FR and Lincoln)	\$77,000
Radiata Pine Breeding Co.	\$20,000
FHRC	\$32,000
Total investment required	\$521,000