

RADIATA THEME TECHNICAL REPORTS INDEX

Report No.	Date	Title	Author(s)
R001	January 2011	A National Model of Pinus Radiata Growth in New Zealand	M Kimberley
R002	November 2008	A Survey of Decision Making in Forest Growing	S Heine, G West
R003	November 2008	Requirements Analysis for Virtual Forest Framework	G West, S Heine
R004	July 2008	Value Chain Pilot Study	G West, J Harrington, D Pont, S Sellier, M
R005	November 2008	Framework Design & Concepts for Value Chain DSS	S Heine, G West, A Gordon, J Gordon,
R006	September 2009	Mechanics of the Stem-branch Junction	D Sellier, J Harrington
R007	2007-08	Strategy for Growth & Wood Property Modeling	G West, M Riordan
R008	June 2008	Radiata Pine Heartwood Modelling	Ping Xu, D Cown, R McKinley
R009	October 2010	Radiata Pine Branching: A Comparison of TreeD data and TreeBLOSSIM Prediction	J Grace, R Brownlie
R010	June 2010	Full Rotation Validation 300 Index Growth Model	M van der Colff, M Kimberley, B Shula
R011	July 2008	Documentation of Tree Characteristics Measured in 1975 Final Crop Stocking Trials	J Grace
R012		Unpublished	
R013		Unpublished	
R014	July 2009	Log Counting Algorithm Validation	H. Marshall
R015	October 2008	Demand and Supply Driven Bullwhip Effect	T Adams
R016	September 2010	Comparison of Radiata Pine Growth Models: Stand Level Predictions from Mid-rotation Onwards	J Grace, M fritzsche, J Hayes
R017	2008	Validation of the WQI spiral grain model	R Ball, D Cowan
R018		Unpublished	
R019	December 2008	Evaluation of Nursery Container Types for Raising Radiata Pine Seedlings & Cuttings	M Menzies, M Dibley, C Iow
R020	October 2009	1975 Final Crop Stocking Trials: Assessment of Crown and Wood Properties for Trees from Different Silvicultural Treatments	J C Grace, R McKinley, D Cown, J Lee
R021		Unpublished	
R022		Unpublished	
R023		Unpublished	
R024	2009	Special Purpose Breed Trials Analysis	J Hayes, J Grace
R025	January 2009	Theoretical Comparison of Branch Index Predictions using different Models and Independent Permanent Sample Plots	J C Grace, A Callahan
R026	June 2010	Report on the Feasibility of Constructing a Vibration/ultrasonic Tool to Monitor Development of Wood Seedlings	G Emms, B Nanayakkara
R027	2008	Validation of the WQI Microfibril Angle Model	R Ball
R028	2008	Effects of Pruning Intensity: Analysis of the Second Log Pruning Trial Series	P Silcock, M Kimberly, A Callahan
R029	December 2008	Improving Operational Forest Inventory - The Benefits of Integrating Single Tree Sampling With Advanced Remote Sensing Technology	M Fritzsche, C Goulding, A Gordon, P Silcock, S Heine
R030	2008	Modelling the influence of site and weed competition on juvenile modulus of elasticity in Pinus radiata across broad environmental gradients	M Watt, P Clinton, R Parfitt, C Ross, G Coker
R031	2009	Heartwood and Green-Density Models for Pinus Radiata	B Rawley
R032	June 2009	Results of the Survey on the Proposed Upgrade of the PSP System	C Andersen, J D Hayes
R033	May 2009	Suitability of Disc Images to Test Applicability of Taper Equations at Different Ages	J Grace, J Bennett
R034	June 2011	A System to Generate Pinus radiata Starting Tree Lists in FFR Forecaster	M van der Colff, M Kimberley
R035	2009	Procedures to allow for incomplete stand histories when running the 300 Index Growth Model	M Kimberley
R036	2009	Wood Density Models	D Cown, M Riddell, M Kimberley, D Point
R037	2009	Ideas for a new interface to Forecaster	A Gordon, J Snook
R038	2009	Estimation of Mean Internode Length for GF14 and GF13/LI25 Seedlots using TreeD data	J Grace, R Brownlie
R039	2009	Effects of thinning history on the 300 Index Growth Model Projections	M Kimberley, T Paul, C Goulding, M Fritzsche
R040	2008	Comparison of Radiata Pine Growth Models	J Grace, M Fritzsche, J Hayes
R041	June 2009	Predicting Pinus Radiata Productivity from Soil, Climate and Environmental Variables: National and Regional Perspectives	D Palmer, M Kimberley, M Watt
R042	2009	Applications of System Dynamics in Forestry Supply Chains: A NZ Case Study	T Adams
R043	June 2010	Model of Surface Strain/Stress in a Tree Stem	D Sellier, J Harrington
R044	2011	Adjusting Branch Cluster Frequency for Genotype in the Branch Model BLOSSIM	J Grace, D Pont
R045	September 2009	A Technique for non-damaging measurement of Sound Speed in Seedlings	G Emms
R046	2009	FFR Research Business Case: Improved Stem Scanning	H Marshall, J Dash

R047	2009	Wood Property Mapping Techniques: Development and Applicability to the Programme of Mechanobiology of Wood Formation	B Nanayakkara
R048	July 2010	Review of Wood Quality Algorithms	D Cown
R050	August 2010	A Phloem Transport Model: A New Surface Evolver	D Sellier, J Harrington, D Pont
R051	2010	Design of Future Large Plot Genetic Gains Trials	D Stackpole, J Lee, P Jefferson, M Carson, F Burger
R052	March 2010	Graphical Data Analysis: Standing-tree Sonic Velocity in Silvicultural Breeds and Ultra-high Pruning Trials	J Grace, J Bennett
R053	2010	Structure Model for Crown Architecture	D Pont, D Sellier
R054	March 2010	Using the 300-Index to Quantify and Model Genetic Gain in Radiata Pine Productivity	M van der Colff, M Kimberley, J Lee
R055	March 2010	User Manual Planning & Field Guide - Timberline Inventory System	M Fritzsche, C Goulding
R056	September 2010	Multi-trait Mixed Smoothing Spline Models for Wood Properties - FFR Mathematical Modelling Framework, progress report to 31/3/2010	R Ball
R057	May 2011	Assessing Spiral Grain by Light Transmission	M Riddell, D Cown, J Lee, J Harrington
R058	June 2010	Variability in Outerwood Density in the 1990 Silviculture Breed and Ultra-high Pruning Trials	J Grace, P Hodgkiss, Rosorio
R059	June 2010	Predicting Pinus Radiata Productivity from Soil, Climate and Environmental Variables: Towards the Green Fields Model	D Palmer, M Kimberley
R060	2010	The Opportunities for LiDAR in Forest Management and Harvesting	T Adams, C Goulding, D Pont
R061	June 2010	Single Tree Sampling: Cost Benefit Analysis	M Fritzsche, C Goulding, A Gordon
R062	June 2010	Literature Review Robust Planning Through Improved Inventory	H Marshall
R063	2011	Modelling Radiata Pine Wood Density in Relation to Site, Climate, Genetic Factors – Part 1: Density Surfaces	D Palmer, D Cown, M Kimberley, R McKinley
R064	2011	Modelling Radiata Pine Wood Density in Relation to Site, Climate and Genetic Factors - Part 2	M Kimberley, D Cown, R McKinley
R065	September 2011	Development of Total Stem Volume and Velocity Maps from LiDAR Metrics	M Watt, T Adams, H Marshall, D Pont, P Beets, M Kimberley, P Watt, J Lee, D Crawley
R066		The Robustness of NZ Forestry Planning to Uncertainty in Yield Data	H Marshall
R067	2011	Development of LiDAR Standards for Digital Elevation Models and Volume Maps	T Adams, M Watt, H Marshall
R068	2011	Forest Estate Mapping Using RapidEye	P Watt - Indufor
R069	2012	Biomchemical Framework Integration Test	D Sellier, J Harrington
R070	2012	Using LiDAR based Regression Estimation in New Zealand Forestry Inventory	H Marshall, J Dash, B Rawley, T Adams
R071	2012	Comparison of Radiata Pine Modelling Systems	P Narayan, J Snook, J Schnell
R072	2012	Genetic Gain Trial Design Report Project	E Bird, F Burger, M Carson, H Dungey, P Jefferson, M Kimberley, J Lee, A D Stackpole
R073	2012	Analysing Silvicultural Regimes using the 300 Index Growth Model in Forecaster	J Moore, P Narayan, J Snook, M Self
R074	2013	Modelling the Variation in Spiral Grain Angle and Microfibril Angle in Radiata Pine	J Moore, D Cown, R McKinley, C Sabtia
R075		to be completed	
R076	2013	Nearest Neighbour Imputation of Stand Attributes using LiDAR Data	J Dash, B Rawley, H Marshall
R077	2013	Extension Nearest Neighbour Imputation of Stand Attributes using LiDAR Data	J Dash, B Rawley, H Marshall