

## PLANTATION MANAGEMENT COOPERATIVE REPORTS

Report No.	Title	Author/s	Date	Confidential or Release date/price
1	A model to predict branch index in radiata pine direct sawlog regimes	M. Kimberley R.L. Knowles	November 1993	Confidential
2	Radiata pine followers trial — establishment report	M. Dean	November 1993	- -
3	Review of silvicultural trials	G.G. West	May 1994	- -
4	Validation of the model to predict branch index in direct sawlog regimes	M. Middlemiss R.L. Knowles	November 1994	Confidential
5	The effect of physiological age of cuttings on unpruned log quality — establishment report	G. Holden B. Klomp J. Tombleson	November 1994	- -
6	Effects of pruning on improved radiata pine breeds — trial establishment report	I. McInnes	February 1998	- -
7	Validation of the diameter over stubs function for genetically improved radiata pine	G.G. West	November 1994	Confidential
8	Prediction of diameter and height starting values for the EARLY growth model	G. G. West	November 1994	- -
9	Review of past wood quality research on agroforestry sites	O. Cox D. L. McConchie R.B. McKinley	April 1995	- -
10	Special purpose radiata pine breeds trials — Establishment report	G.T. Stovold	April 1995	- -
11	<i>Dothistroma</i> genetic gain trial — Establishment report	G.T. Stovold	April 1995	- -
12	Clonal trial for special purpose radiata pine breeds — Establishment report	G.T. Stovold	April 1995	- -
13	Development of a 'stand-alone' joint venture planning system	P. Middlemiss	April 1995	- -
14	Genetic gain trial to measure reduction of <i>Dothistroma</i> infection with <i>Dothistroma</i> -resistant breed — Results to age 3	J.R. Lee S.D. Carson L. Gea	April 1995	- -
15	A strategy for efficient selection and evaluation of "designer breeds"	S.D. Carson M.J. Carson G.G. West J.C. Grace T.G. Vincent P.A. Jefferson B.R. Manley	November 1995	- -
16	Predicting the growth of young stands of radiata pine from site factors — An investigation in the Bay of Plenty region	A. Wells	November 1995	- -
17	Genetic gain modifiers for log quality characteristics for use in STANDPAK — a preliminary analysis	J.A. Turner B.R. Manley G.G. West S.D. Carson J.C. Grace P.A. Jefferson M.J. Carson	November 1995	- -

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18	Comparison of techniques to measure tree internode lengths	J.A. Turner	November 1995	- -
19	Demonstration/Research Nelders of improved radiata pine breeds — Results of first assessment ( <i>unavailable – report not completed</i> )	J.D. Tombleson J.A. Turner P. van Wijk	November 1995	- -
20	Pruning of improved radiata pine breeds, Tumunui — A pilot study	W.M. Blundell	November 1995	- -
21	Guadalupe hybrids timberbelt demonstration/research trial — Age 3 & 4 year assessment results	J.D. Tombleson J.T.D. Penman	November 1995	- -
22	Second log pruning trials — Installation report	M. Dean	November 1995	- -
23	Validation of the radiata pine shelterbelt growth model	M. Dean R.L. Knowles M.O. Kimberley	November 1995	- -
24	See report 30			
25	Methodology of measuring shelterbelt optical porosity — a pilot study	M.A. Carter	November 1995	- -
26	Akatore agroforestry trial, results from 1974-1995	G.G. Cossens G.S. Crossan	November 1995	- -
27	Invermay agroforestry trial, results from 1974-1995	G.G. Cossens G.S. Crossan	November 1995	Confidential
28	A comparison of older physiologically aged cuttings of radiata pine with juvenile cuttings and seedlings in shelterbelts	M. Dean	November 1995	- -
29	Soil fauna populations in agroforestry trials ( <i>unavailable - report not completed</i> )	B. Willoughby	May 1996	
30	Review of tree root studies	M. Gautam	May 1996	- -
31	Breast height basic density of physiologically-aged cuttings vs seedlings, grown on a fertile farm site	M. McConchie K.F. Gilchrist	May 1996	- -
32	Single clonal blocks vs clonal mixtures – Kawerau & Tumbarumba trial assessment results ( <i>unavailable – report not completed</i> )	J. Tombleson A. Straker C. Borough D. Darling	May 1996	
33	Causes and potential approaches to overcome inferior form and branching habit in radiata pine grown on farm sites — a literature review	J.A. Turner	Nov 1996	- -
34	Single clonal blocks versus two and sixteen clone mixtures trial, Tarawera Forest — establishment report	J.A. Turner J. Tombleson C. Te Riini	Nov 1996	- -

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35	A strategic plan for new and existing silvicultural trials	G.G. West D. Elliott M. Kater M. McLarin P. Smale W. Sutton P. Taylor	Nov 1996	- -
36	Evaluation of <i>Eucalyptus Globoidea</i> grown on Matakana Island	A. Somerville S. Gatenby	Nov 1996	- -
37	Study to identify sources of error in measuring sinuosity of the pruned butt-log using a height pole.	J.A. Turner	May 1997	- -
38	A preliminary analysis of potential for development of genetic gain modifiers for stem straightness.	J.A. Turner	May 1997	- -
39	Genetic and site differences in <i>Pinus radiata</i> internode length in New Zealand	J.A. Turner S.D. Carson B.R. Manley J.C. Grace G.G. West	May 1997	Confidential
40	A comparison of the energy and force requirements of pruning loppers	P. Crossland	April 1997	- -
41	Followers trials on forest sites —establishment report	M. Dean	May 1997	- -
42	Prediction of individual log internode index from estimated stand mean internode length	J.A. Turner	May 1998	Confidential
43	Crown lightening trials: Installation report	J.A. Turner J.D. Tombleson J.P. Maclaren	May 1998	- -
44	Toppling trial establishment report: Evaluation of severe lateral nursery root trimming and contrasting genetic improvement.	J.A. Turner J.D. Tombleson W. Brown	May 1998	- -
45	Prediction of final stem sinuosity in pruned logs from juvenile stem sinuosity measurements.	J.A. Turner J.D. Tombleson	May 1998	Confidential
46	Towards a general stem volume and taper equation	M Budianto A.D. Gordon	May 1998	Confidential
47	The effects of a Wairarapa shelterbelt on agricultural parameters	M.F. Hawke A.G. Gillingham D. Bell	May 1998	- -
48	Effects of Boron deficiency on the root anchorage and incidence of resin pockets in <i>Pinus radiata</i>	J.R. Moore	May 1998	- -
49	Comparison of taper, volume and bark thickness of 26-year-old seedlings and cuttings from Mamaku Forest	M. Budianto J.D. Tombleson A.D. Gordon	May 1998	- -
50	The effect of final crop stocking on growth across a range of sites.	G.G West J.P. Maclaren M.O. Kimberley A. Straker	May 1998	Confidential

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51	Predicting green crown length in Radiata pine	J.A. Turner	May 1998	
52	Waihi Toppling Trial - Assessment of roots following severe toppling	J.D. Tombleson J.A. Turner	November 1998	- -
53	Assessment of roots – Ngaruawahia, Waihi & Fielding toppling trials	J.D. Tombleson J.A. Turner	November 1998	- -
54	An evaluation of poplar on New Zealand hill country.	H. McElwee R.L. Knowles	November 1998	- -
55	An assessment of stand and tree quality at low pruning comparing aged cuttings with seedlings	D.G. Holden B.K. Klomp C.L. Sundgren	November 1998	- -
56	Target timber products from fertile farm sites: A case study using the Target Tree system	G.G. West	November 1998	- -
57	Followers experiments on farm sites ( <i>unavailable – report not completed</i> )	M. Dean	November 1998	
58	Effects of erosion scars on stand growth and quality ( <i>unavailable – report not completed</i> )	M Dean	November 1998	
59	A national growth model for radiata pine shelterbelts ( <i>very large document - available on request</i> )	M MacKenzie L Knowles M. Dean	November 1998	Confidential
60	Evaluation of the growth and root morphology of container grown cuttings produced by FORENZA	J.D. Tombleson J.A. Turner	May 1999	- -
61	Validation and improvement of models to predict “Diameter-over-stubs”	R.L. Knowles H. McElwee	March 1999	- -
62	Validation of a model to predict canopy closure for Radiata Pine	H. McElwee	March 1999	- -
63	See report 54 above.			
64	Lateral root growth of <i>Pinus radiata</i> adjacent to developed pastures	M.F. Hawke A.G. Gillingham J.P. Maclaren	June 1999	- -
65	Study into the influence of genetic improvement on second log branching of radiata pine	M.S. Watt J.A. Turner	November 1999	- -
66	A 3-point stem volume and taper equation for radiata pine	A. Gordon M. Budianto	November 1999	Confidential
67	The effects of shelterbelts on pasture and soil parameters at Poukawa Research Station, Hawkes Bay	M.F. Hawke M. Gray A.G. Gillingham M. Slay	November 1999	- -
68	A strength and stiffness comparison between timber from Tikitere, Kaingaroa, and a New Zealand wide study	D. Gaunt B. Penellum K. McNab J. Roper J. Turner	June 2000	- -
69	An investigation into the effects of boron fertiliser on wood properties and clearwood defects in radiata pine	R. McKinley D. McConchie M. McConchie	May 2000	- -

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70	Wood density of radiata pine: Effect of nitrogen supply	P. Beets K. Gilchrist M.P. Jeffreys	May 2000	- -
71	Significance of boron on butt-log straightness of radiata pine	J.D. Tombleson M. Budianto J.A. Turner	May 2000	- -
72	New generation toppling trials for winching - establishment report update	J. Tombleson	November 2000	- -
73	Root system variation in <i>Pinus radiata</i> clones: Experimental study under semi-dry temperate silvopastoral ecosystem in New Zealand	M. Gautam	August 2000	- -
74	Wood properties of 26-year-old <i>Pinus radiata</i> from the Tikitere stocking trial	R. McKinley D. McConchie M. Budianto	November 2000	- -
75	The effect of cyclaneusma infection on tree growth	M. Dean L. Bulman M. Kimberley	November 2000	- -
76	Assessment of tree quality of aged cuttings and seedlings at age 5 years	D.G. Holden	May 2001	- -
77	GF Plus demonstration/research trials – establishment report. ( <i>Whole report not available electronically</i> ).	S. van Ballekom J. Tombleson	May 2001 / Nov 07	
78	Comparison of GF and long internode breeds along with high wood density clones planted as shelterbelts – establishment report	J.D. Tombleson D.J. Bell	May 2001	- -
79	Analysis of wood density and spiral grain at seven contrasting sites	S. Kumar R. Ball D. Cown	Nov 2001	Confidential
80	Wood quality of radiata pine on farm sites – a review of the issues	P. Maclaren	May 2002	- -
81	Analysis of internal checking data from the Goudies and Matea pruning / thinning / fertiliser trials (RO 1083/1 and 2)	M. Kimberley M. McConchie D. McConchie	May 2002	November 04 -
82	No report allocated to this number			
83	The effect of pruned height, pruning intensity, and timing on tree growth and quality - An interim analysis ( <i>yet to be completed</i> ).	M. Dean M. Kimberley	May 2002	Confidential
84	USA Forestry Study Tour Background Notes Part I – Pacific North West ( <i>hard copy available on request</i> )	J.D. Tombleson	September 2002	November 04 -
85	USA Forestry Study Tour Background Notes Part I – South East ( <i>hard copy available on request</i> )	J.D. Tombleson	October 2002	November 04 -

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86	Analysis of crop tree growth response to followers and timing of thinning ( <i>yet to be completed</i> )	M. Dean	November 2003	May 05 -
87	Silviculture x traits trials – establishment report	M. Dean	May 2005	Confidential
88	Profitability of converting pastoral farmland to forestry in the Taupo basin. Part I: Marginal analysis at the one-hectare level. Part II: Farm-level sustainability.	L.W. Hansen R.L. Knowles A. Laroze	May 2004	May 05 -
89	Growth and profitability of radiata pine farm forestry in Hawke's Bay and Wairarapa	L.W. Hansen R.L. Knowles M. Halliday	May 2004	May 05 -
90	Realistic alternatives to radiata pine in New Zealand – a critical review	J.P. Maclaren	May 2004	Nov 05 -
91	Functionality contained in the NZ Farm Forestry Association radiata pine calculator Version 2	L.W. Hansen R.L. Knowles M. Kimberley	August 2004	Confidential
92	Validation of the 300 index growth model for radiata pine on three contrasting site types	M. Kimberley R.L. Knowles M. Dean	March 2005	Confidential
93	Culling resin bleeders at the time of selection for pruning	J. Cox J.D. Tombleson M.O. Kimberley	October 2005	Confidential
94	Conversion factors for Type I and II resin pockets	M.O. Kimberley J. Tombleson G. Holden	November 2005	Confidential
95	Culling resin bleeders at the time of selection for pruning – do resin bleeders identify themselves at a young age?	J.D. Tombleson G. Holden M.O. Kimberley	November 2005	Confidential
96	Analysis of branch data from final crop stocking trials	H.D. Marshall	May 2006	Confidential
97	Coast redwood silviculture trials	M. Dean	May 2006	Confidential
98	A validation of the 300 index growth model	M. Kimberley M. Dean	June 2006	Confidential
99	Extension of the 300 index growth model for non-performing site types – Stage 1	M. Kimberley	June 2006	Confidential
100	Analysis of tree growth of clones grown in pure blocks and mixtures	M.O. Kimberley M. Dean	June 2006	Confidential
101	Incorporating thinning responses into a branch diameter model	M.O. Kimberley H. Marshall	June 2006	Confidential
102	A review of the Plantation Management Research Cooperative trials and PSP's	C. Goulding	June 2006	Confidential
103	Final assessment of 21 to 22 year-old cuttings trials	M.I. Menzies C.B. Low	May 2007	Confidential
104	Rationalisation of volume and taper functions	P. Silcock	May 2007	Confidential

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105	A new mortality function for New Zealand radiata pine	M.O. Kimberley	May 2007	Confidential
106	Analysis of mono-clonal blocks vs mixtures trial – Tarawera forest	H. Marshall	May 2007	Confidential
107	Extension of the 300 index growth model – Stage 2	M.O. Kimberley	June 2007	Confidential
108	Forecaster Fork and Sweep Model	H. Marshall	June 2007	Confidential
109	Wind Effects on Juvenile Trees, with Special Reference to Radiata Pine Growing in New Zealand	J. R. Moore J.D. Tombleson J.A. Turner M. van der Colff	November 2007	Confidential
110	Projection of tree lists using the 300 index model	M.O. Kimberley M. van der Colff C.J. Goulding	November 2007	Confidential
111	Effect of genotype on acoustic velocity	P. Silcock	November 2007	Confidential