

In our Contemporaries

What's new in Forest Research

No. 203 Spread of introduced trees in the high country

No. 204 Fighting the wasp problem

No. 205 The greenhouse effect

No. 206 Mid-crown yellowing – On the increase

FRI Bulletins

No. 151 New approaches to spacing and thinning in plantation forestry
James R.N., Tarlton G.L. (1990)

\$60.00+GST

This bulletin presents the papers and discussions from a IUFRO symposium held at the Forest Research Institute, April, 10-14, 1989. Topics included: evolution and current status of silvicultural practice in Australia, Europe, and the USA; techniques, examples, and experimental results from studies of spacing and thinning alternatives; management and biological constraints; and operational aspects of wide spacings and heavy thinning.

No. 162 Forestry and forest products as a carbon sink in New Zealand
Maclaren J.P., Wakelin S.J. (1990)

\$25.00+GST

In this report the authors examine the effect of plantation forestry in New Zealand as a carbon sink. Carbon storage

was calculated both for "on-site" (i.e. in the forest) and "offsite" (i.e. in wood products) for every year from 1990 to 2050 under a number of forest management scenarios. They conclude that, although industrial plantation forestry is a beneficial tool for mitigating the effects of fossil fuel combustion, its benefits should not be overstated and are primarily due to a continuous programme of new planting on unforested sites.

No. 166 Proceedings, FRI/NZFP Forests Ltd Clonal Forestry Workshop, May, 1-2, 1989

Miller J.T. (1990) \$20.00+GST

This volume contains 33 papers from the workshop, arranged under the session headings: Why clonal forestry? Clonal systems and propagation techniques; Clonal screening and testing; Management aspects. A postscript paper by R.D. Burdon entitled "Position statement – Clonal forestry with *Pinus radiata*" is appended.

Forest and Bird

Native forest logging – do we need it?

Morton, J. Vol. 22(1): 16 (1991)

This article provides an individual perspective on indigenous forests, and criticises the former Labour Government's proposals for the "sustainable" logging for export of native trees.

Growing Today

Trees in the Sky

Macarthur, R. Vol. 4(3): 22 (1991)

This article describes Skyline Logging, an environmentally sound alternative for harvesting steep-land forests. It has recently been used with great success on a farm forester's woodlot in Marlborough. Skyline Logging was developed in Switzerland in the 1940s by the Wyssen company, and is virtually a complete aerial roadway which can be established in any configuration across a hill-slope.

Blackwood and beautiful

Mortimer, J. Vol. 4(3): 38 (1991)

The Australian Blackwood is described as one of the world's finest furniture timbers, as a fast grower, suiting a wide range of sites, and good for soil conservation.

Forest biotechnology

(continued)

laboratories and research greenhouses. It is hoped that the proposed legislation covering genetically modified organisms in New Zealand will not stifle biotechnology research, as is happening in some parts of the USA and Europe.

7. The most promising propagation technologies for radiata pine that appear suitable for genetic engineering are the meristematic nodule system and embryogenesis. Both of these systems are capable of regenerating whole plants from very small clusters of cells, but their capability for being transferred has yet to be tested. Embryogenesis systems have been developed for hardwoods (e.g. *Liriodendron*) and conifers (spruce and larch). The development of a system for pines has proved to be relatively difficult but work at FRI appears to be more advanced than elsewhere. This system for radiata pine, once fully developed, could have good commercial potential for application in the USA and elsewhere.

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