Letters

An urgent need for reappraisal of forest prescriptions

Sir,

It is 40 years ago when discussions were centred on the problems of spiral grain and low-density wood. They were strong points against using P. radiata as a building timber.

These arguments died when the trees being milled increased in age and a great proportion of the cut was directed into crates, boxes etc. Where New Zealand P. radiata has earned its great reputation is in the high-quality market with timber cut from trees over 30 years of age. It is good to see such people as Charlie Kerr and Wayne Coffey (N.Z. Forest Industries, April 1997) expressing concern that these problems are arising again.

Recent trends towards short rotations for P. radiata, led by economists and other enthusiasts, give the same value to all clear wood, irrespective of age. It is in the young clear wood where the problem is showing up. If the value of young wood was lowered then the “short rotations” would lose their attraction. If we continue to sell this wood as high-quality then our reputation will suffer, prices will drop and the overall value of all forests will fall drastically. Today’s forest economists persist in viewing a forest on a one-crop basis and not as a continuum. It may be all right for small forests but large forests should be looked at as sustained units.

The 1981 New Zealand Forestry Conference report states: “If the production of high-quality saw logs and the maximum volume of clear wood is the essential ingredient of our industry strategy, stands should not be felled early. If it is considered necessary to spread individual development, felling can be delayed with subsequent gains in volume and particularly and more importantly, gains in value.”

New Zealand missed a golden opportunity to hold rotations at 35 years when the major utilisation plans for the 1925-30 plantings got under way and when large areas were still uncommitted. Attempts to establish sustained management were thwarted by pressure for increased utilisation. Some owners made strenuous efforts to balance this by major new planting in the 1970s and 1980s. However, the temptation to cash up the standing growing stock was too great and the accounting systems such that the reduction in the value of the standing forest was not reflected in the balance sheets. This situation was too tempting and successive managers were only too eager to jump on the bandwagon and to use the “short rotation philosophies” as justification.

Forest managers fight a losing battle when it comes to holding up rotation age. Everything is against them. If markets are good the financial managers want to sell more to take advantage of the opportunity and if the market is bad they want to sell more to keep up the cash flow. It is not easy for forest managers to convince financial managers of the need for long-term management objectives, as I found out from trying to do just that for over 30 years.

There needs to be more dirt forestry practised along with the computer modelling. Companies using “discounted cash flow methodologies” for their forest values should bear in mind B.J. Allison’s (1992) summation, “some measures lie wholly in the future, such as discount rates, inaccessible of verification, subject to the interaction of many competing and cooperating interests and scarcely determinable even in hindsight.” [The emphasis with bold type is mine.]

There is an urgent need for a reappraisal of the present forest prescriptions to ensure that we can compete in the quality timber market and not again become the supplier of low-grade timber.

J.E. Henry


Biodiversity issues

Sir,

In Ian Spellerberg’s review of the FRI Bulletin, Environmental Effects of Planted Forests (May 1997), he raises a number of significant points. Unfortunately the obvious biases in the Bulletin are intended to, as Spellerberg points out, “… advocate that afforestation of New Zealand pasture by pine trees was good…” It is a disappointment that the large amount of useful information in it is tainted by these biases and selectivity. A broad multi-sector review team would have helped prevent this.

However, I would like to pick up on the biodiversity issues that are raised and the Biodiversity chapter itself, which largely misses the point, and is short on guidance for foresters on biodiversity issues for plantations.

The biodiversity chapter gives a detailed account of records and research of indigenous biodiversity in New Zealand plantations. The short section on aquatic life in the chapter was concise and to the point. But the basic apologist summary of the chapter was that pine trees have a greater incidence of indigenous biodiversity than pasture, and therefore plantations are OK. To me this is not a particularly glowing report card for plantations when the central theme here is biodiversity protection as a component of sustainable land use.

The Convention on Biological Diversity (CBD) is the primary international instrument that deals with biodiversity, with New Zealand a signatory, yet it doesn’t get a mention in the bulletin. The CBD lays out binding commitments for the protection, conservation and sustainable use of biodiversity. The author, Piers Maclearn, also confusedly claims the Principles for Commercial Plantation Forest Management as being an international convention (p. 128).

A big deal is made of incidental indigeneous plants and animals in plantations, but no information is given on the level of this biodiversity after harvest. Emphasising the number of individuals or species found in plantations rather than what type of species, and on comparable sites, is misleading. The photos at the beginning of the chapter (higher altitude native beech forest to illustrate low natural biodiversity and pine on what looks like a lowland site to illustrate potential biodiversity), sets the biased foundation of the chapter. Most plantations are planted on former lowland forest ecosystems. The photos and such comparisons are irrelevant unless they are on comparable sites, as an objective scientist should know.

Maclearn implies that more numbers and species is better. However, protecting biodiversity is not about maximising numbers. It is about protecting and restoring the indigenous gene pool, the variety and abundance of species, and the ecosystems which they are part of. Thus protecting the...
native variety of life of a place.

I agree with the statement on bird diversity from Clout and Gaze (1984) on p.131, that the main effect is a change in avifaunal composition, with the increased abundance of introduced birds. As Maclaren concedes, “some native birds, especially those that eat nectar or fruit, or that rely on large, old trees for nests, may be absent.” There is no doubt that some adaptable ‘generalist’ indigenous plants and animals will make a home of plantations, but for most of our specialist, threatened and unique biodiversity, it is not a place for them.

Some may argue that with considerable areas of indigenous forest protected and the Forest Accord signed, there is no need to worry about the ‘internal’ biodiversity of the production-focused areas. The problem is, we don’t have enough indigenous forest remaining to protect our biodiversity, particularly in lowland ecosystems, and what we have is generally only a “shadow of its former health”. Therefore conversation of biodiversity becomes an issue for all land users and society as a whole (not only forest managers in response to a question Maclaren asks on p.133).

There are two complementary pathways to achieve this. The first is to restore indigenous ecosystems in a step-by-step fashion, by protecting existing remnants and replanting set aside parts of planned areas, or current production areas after harvest. This will of course be a cost to the land user but rate relief and funding (dare I say subsidies) for these areas is becoming more common, and there may be marketing advantages if part of eco-certification. Lifestyle subdivisions of farmland, such as on Waiheke Island, are making a considerable contribution to biodiversity protection through the restoration and protection of native ecosystems. This pathway must be the primary method of biodiversity conservation, and it supports the current land-use pattern of separating off conservation areas from production-focused areas.

The second pathway is within the plantation production-focused areas themselves. Spellerberg makes the point that short rotation wood cropping does little for biodiversity, and that multi-use forestry could benefit native species and their habitats. Many of the examples of indigenous biodiversity in plantations cited by Maclaren are in older plantations, on wetter and more fertile sites, associated with dead trees, and where indigenous remnants are nearby. This could have led on to clear guidelines on how plantation managers and land users as a whole can modify practices or design to benefit local indigenous flora and fauna (building on the Bull (1981) and Clout (1984) list cited in the text). There are many simple low-cost ways of broadening the biodiversity benefits of plantations that could have been recommended in the Bulletin.

Radiata plantations in general may make a more positive contribution to biodiversity than exotic pasture lands, but that does not necessarily mean they are protecting biodiversity, which is the real issue, nor then are they a sustainable land use until indigenous ecosystems are on a path to being protected and restored.

Grant Rosoman
Greenpeace

---

**John Allen retires from editorial board**

Dr John Allen has recently decided to retire from the editorial board of NZ Forestry.

John joined the board in late 1992 at the time Chris Perley became Editor. He has provided sound advice and assisted substantially with the editorial processes during his five years on the board.

Since retiring from the School of Forestry John has had health problems and this has partly prompted his leaving the board at this time.

The Editor, other board members and the Institute of Forestry are very grateful to John for his support of the journal and wish him well for the future. His quiet humour, wide knowledge and careful editing will be missed.

---

**NZ FORESTRY ADVERTISING**

New Zealand Forestry invites advertisements for future issues of this journal, which is published for members of the Institute of Forestry and others involved professionally with the forestry industry.

For details of rates and deadlines contact:

Rex Monigatti
PO Box 3541, Wellington
Tel (04) 476 7318
Fax (04) 476 3898

---

**Continuing professional development opportunities**

- **August 28, 1997**
  NZIF seminar on GIS in Forestry organised by Canterbury section. Contact Owen Springfield (03) 348-4933.

- **September 12, 1997**
  FRI Wood Quality Workshop in Rotorua. Contact Ken Gilchrist.

- **October 16, 1997**
  Influence of Pruning on Wood Quality – Waikato, Coromandel, Bay of Plenty Farm Forestry Associations’ combined field trip. Contact Leigh Tarleton at FRI.

- **October 25-26, 1997**
  NZIF field trip to the West Coast organised by Canterbury section. Contact Peter Allen (03) 332-3251.

- **November 17-19, 1997**
  IUFRO Division 2 Meeting on Pinus radiata Breeding and Genetic Resources in Rotorua. Contact Dr Peter Ades, School of Agriculture and Forestry, University of Melbourne (peter.ades.agfo@muwayf.unimelb.edu.au).

- **December 1-4, 1997**
  IUFRO ‘97 “Genetics of Radiata Pine” conference in Rotorua. Contact Peter McFetridge (07) 347-5899.

- **February, 1998**
  Otago-Southland 19th Annual Study Trip Tramp to Stewart Island. Contact Jim Smith (03) 453-5143.

To add conferences, meetings and local NZIF section events which are relevant to CPD to this list, contact the Editor. The Journal is published quarterly so plan accordingly.