duction plantations, and the strengthening of the forestry profession. He is pleased to see the increasing development of forestry as a truly economic activity in New Zealand. From 1968 to 1991 he was an Executive Councillor of the New Zealand Forest Owners’ Association and is now a Director of the NZ Forest Research Institute. As a forest owner in the Tuki Tuki Valley and at Kaukapakapa, John looks forward to planting more forests with family participation, and profitably converting older ones.

Two of John’s children have followed in his footsteps; Kathryn is the Recreation and Tourism Planner for DOC in Westland, and Tony a Management Trainee for McVicar Timber Industries. John also is pleased to acknowledge that his wife, Judy, has become a valuable live-in legal adviser in forestry matters.

NEW INFORMATION

‘Tomorrow’s Trees’


“Tomorrow’s Trees” is a handsome book, reflecting both the very long association with forests and forestry of Lindsay Poole, the author of the text (his forestry career began in 1926, four years after the establishment of the Forest Service) and the professional skills and interest of John Johns, whose photographs illustrate it. Both are widely known and respected beyond forestry circles in New Zealand.

The theme of the book is the enormous potential for forestry and trees in New Zealand.

The early colonists, both Maori and pakeha, found an abundance of forest when they came here, and both in their own way treated it in a cavalier fashion. But trees have slowly established their place in our culture, as a part of our “heritage” and as an economic force capable of challenging most other land uses. This was neither painless nor by chance, and “Tomorrow’s Trees” sets out to show how it happened.

The book begins with a brief look at some of the countries on the mainland of Europe which have for a long time recognised the wide-ranging value of their forests and managed them accordingly. There is a brief reference to Britain, which conspicuously has not done that, preferring to believe that there will always be wood somewhere else, and it is implied that this attitude is a part of the baggage brought to New Zealand in the second, European, wave of colonisation.

In New Zealand, forestry has, within the period covered by this book, been largely a government affair. In the beginning this was because of a wish to constrain settlement to at least the pace of logging the natural forest before it was cleared and quite early alarms about the dangers of excessive deforestation. Provision of wood for the future, by its long-term nature, fell naturally into the prevailing view of government responsibility.

In the natural forest, foresters faced what was in the end to be an insoluble problem of abundance of wood, apparently slow growth rates, forest complexity and political short-sightedness: the vote was for land and cheap wood, and as Sir Francis Bell said when introducing the Forests Act (1921/22):

“Land which is suitable for settlement can never be held with trees upon it on any considerable area. It is desirable that the country should understand that fact. It is no use for forestry to set itself against settlement, though forestry can demonstrate that it can employ more men per acre than settled land can. But our habit and methods in this country are established and settlement is the first aim.”

In this context the natural forest was seen not to be a sustainable resource, and future wood supply would have to come from plantations of introduced trees. Like agriculture, forestry would depend on immigrants, and “Tomorrow’s Trees” does not regret the end of unsustainable logging in the natural forest.

Economic forestry, therefore, grew up as the cinderella of land uses, on country judged unsuitable for settlement.

Fortunately for foresters, there was from the early days of European settlement a vigorous, if eclectic, interest in tree planting, which gave a very good base of knowledge for plantation forestry.

It is on one of these early immigrants, radiata pine, that the present forest industry is based, an industry which has already moved into third place in the national export league, and one whose earnings are set to grow by three to five times in present-day values over the next 25 years as the plantation resource matures into sustainable full production. A large part of the book is given to explaining how this happened and the future of other introduced trees whose time and place is still to come.

A central theme of the book is that none of this happened by accident. Resources were assessed, demands projected, and a rate and scale of plantation establishment set to allow for replacement of the natural forest cut as it came to an end.

Planting was concentrated in specific areas to provide a sufficient resource on which to found export-oriented industries. Research into sustainable management practices for indigenous forest was undertaken with some successes (the beeches and kauri) and some failures (most podocarsps).

There was also private sector investment in plantations to the extent of about half the total area planted, but, significantly, most of this was by large companies and very little by farmers. Trees remained, for most New Zealanders, someone else’s business.

Then in 1984 began a process which in the eyes of the author merely illustrated once again the indifference of politicians to the value of forests: the incoming Labour Government set in train plans to abolish the Forest Service and to sell off its plantations. Natural forest would pass into the control of a new Department of Conservation with a generally preservationist mandate.

Thus “Tomorrow’s Trees” ends on a pessimistic note, questioning whether there can be a tomorrow for forestry in a free-market situation.

BOOK REVIEWS

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The Taungya forestry system


This book, the first in a new series, is based on a symposium at the VIth International Congress of Ecology in Japan. The material in the book is in two parts. The first consists of seven papers that describe the taungya system, its origins, the underlying biology and some socio-economic aspects. Part two covers seven examples from various parts of South-east Asia. The Editors have included an introduction and a conclusion to draw the book together into a coherent whole. In this they have been only partially successful for the individual chapters differ in their treatment depth.

In the introduction the writers argued that taungya was essentially different from agroforestry in that it was aimed at establishing plantations. The crops tended during the first few years to be incidental. They argued that agroforestry was much more focused on the production of crops. This argument, I would suggest, is academic as it is more important to focus on how trees and agriculture are interwoven - the difference is only one of degree. I would agree with J. Gajaseni and C.F. Jordan when, in Chapter 7, they state that "taungya" is a type of agroforestry albeit organised to assist forest regeneration.

The overview papers in the first section had several interesting chapters. The historical and socio-economic discussion was interesting in that it stressed how taungya was evolving to meet current needs and to overcome some of its negative aspects. The three chapters on the underlying biology considered the general principles of plant competition, nutrient cycling and soil sustainability. My major impression after reading was that there was little hard scientific data on which to base the practice. For example C.F. Jordan states in chapter 5: "We do not know of any studies on nutrient dynamics during the initial stages of taungya." And in chapter 6 L.A. Bruijnzeel states: "No single study has managed adequately to quantify all gains and losses of nutrients for a complete cycle of tropical forest cleaning, followed by plantation establishment, maturing and harvesting". This review of Bruijnzeel points to the need for fertiliser, at least for some tropical soils, for them to be sustainable over several rotations.

The final chapter of the first part of the book looked at the theoretical basis for taungya and its improvement. It was again light on hard data, but it was good to see the authors (J. Gajaseni and C.F. Jordan) argue for alternative practices on the basis of a better understanding of the system.

The second part of the book looked at taungya in different countries. This part of the book would be a useful introduction to people interested in the application of the system or those wishing to obtain an overview before working in one of the countries. Many variations are discussed and their advantages and limitations are usually spelt out.

Who should purchase this book? It is obviously useful for libraries and those who specialise or work in tropical forestry and agroforestry. It is less useful to forest and other land managers in New Zealand or other developed temperate countries.

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"Managing the World’s Forests"


It takes some considerable reading of this tome to discover that, in the main, it is not about the world’s forests or seeking a balance between conservation and development, but principally about the state of forests in the developing world and about forestry projects in those countries. Perhaps this is not surprising as the International Bank for Reconstruction and