The affordable degree of specialized education required of the University of Canterbury School of Forestry.

The location of the School of Forestry which truly gives the largest possible teaching resource and integration with the industry it services.

The role of the School of Forestry, Forestry Training Centre and Institute in serving the needs of continuing education. It is this forester’s opinion that the time has come to address these questions frankly and with good kiwi ingenuity. I believe that much of our passion for such specialized training as logging engineering and marketing is far better satisfied by internal industry and short-term overseas training followed by some form of Institute recognition of achievement.

Finally as one who has somewhat neglected the Institute, I would gladly help the Institute survey members to determine the need for continuing education, and in what subject areas.

I have travelled enough to appreciate that New Zealand’s plantation forest management is the best in the world, We’ve gotten there by being innovative through both our management and research. This lead will be maintained only if we recognize the need to apply some of this inspiration to our own education system’s urgent needs.

D. New, Chief Forester, Tasman Forestry Limited

Birds and National Forest Survey

Sir,

May I add a little to Priestley Thomson’s letter?

About 1950 — halfway through the ten years of National Forest Survey — some field party leaders began to regularly record birds seen or heard on or about sample plots, and this was later done by all leaders during the Ecological Survey of North Island forests, 1956-67.

As a result, there are altogether several thousand sites where birds present on single short occasions over a 17-year period were noted. There was no methodology in this and the observers were not experts, but a wide range of species was recognized, with reasonable degree of certainty. Never a blue-wattled crow, though Bill Gimblett probably did once spot an orange-wattled one, in North Westland.

As Priestley Thomson remarks, it is for ornithologists to decide whether this information is worth the effort of searching the records. Some of them are aware it exists.

John Nicholls, Rotorua

New Format

Sir,

Congratulations on the format of New Zealand Forestry. A joy to read Volume 31, No. 4. I have in the past resisted dropping the old style journal with its emphasis on technical excellence. You and your team in NZ Forestry have convinced me that was a wrong stance. Forestry and the Institute will be more relevant to a wider audience with the readability of the new format.

Colin McKenzie, Past President, NZIF

Pine Pygmies?

Sir,

The interesting paper by M.J. Carson on improving log and wood quality (Vol. 31(4): 26-30) has one curious feature: in Fig. 1, if \( L = 2.2 \text{m} \) and \( S = 0.5 \text{m} \), the foresters up each tree are precisely 1.1m tall. Does FRI employ pygmies? Are they “a special-purpose radiata breed” of lightweight tree climbers? Or is this just a result of staff cuts?

John E. C. Flux

Breeding Eucalypts

Sir,

I was interested to read Mike Carson’s article on the *Pinus radiata* breeding programme (Vol. 31/4) and the emphasis he placed on selection for a range of traits, including wood properties. I believe a greater emphasis is needed in the Eucalypt breeding programme.

Scientists from the Tree Improvement Section of FRI have established trial areas over both Islands to sort out the “best” provenances of eucalypts for milling. The species are limited to those of most promise. But what is “best”? There will obviously be assessments for stem straightness, branch size and the ability to shed branches early, but most emphasis appears to be on height growth and diameter. In other words, volume.

As these trials are to sort out the eucalypts to produce timber, surely high emphasis should be on the outturn of good grades of No. 1 class sawn timber, rather than overall volume. Having sawn timber out of home-grown eucalypts for some 30 years, I have found that timber from certain species mills better than others. This indicates that good timber outturn is heritable; there can be no argument about that.

Furthermore, one is very aware of great variations in sawing quality within species. South African growers have been aware of this for many years, and Marsh, whom I corresponded with some 30 years ago, put *E. grandis* through a series of trials over four generations (*E. grandis* appears to seed at around seven years), eliminating seed of all young trees which end-checked badly at each trial. Eventually he told me his trees were noted and readily accepted at sawmills for “straight boards out of the seasoning stacks” (Pers. Comm.). Australian loggers are very aware that sometimes localized stands of trees within a species are “springy”. (“Put ‘em down the shute, Blue!”) Our own experience suggests the Bartlett strain of *E. saligna* is superior to some other species planted in this country.

There are within this Auckland Bartletts stand two different grain types, one being highly figured and “wavy-grained”, Thul-in (pers. comm.) contended that such grain was heritable. The second strain is one (included in the trials as FRI 119) that’s fairly straight-grained but interlocked on the circumference. This produces very good cutting timber from F1 plantings. Both strains are notable for their good “wide bored” cutting logs. I have, as a challenge, cut a number of 300 mm x 25 mm boards from 25-year trees of the F1 Bartletts-119 home grown trees, e.g. Smith (Marston) and Jim Barr (Whakatane) would produce young trees of much more stable timber than the faster-growing provenances from the Athenree and perhaps from Kangaroo Valley, NSW.

I would therefore contend quite strongly that inheritance plays by far the most important part in the “mill-ability” of eucalypt trees. Should we not then be saving seed or clonal material from the best of our sawing trees as we cut them?

I would like to suggest that when those trials of *E. saligna-botryoides* are being thinned to final spacings, some larger stems be allowed to dry out and the end shakes be evaluated. I would give 45 marks out of 100 for stability rather than volume. The ash group eucalypts are different in that internal checking is a problem, a different pattern of sawing and seasoning is needed, but I would think that a combination of selection for density of timber and interlocking of grain would be a good base to start from. In my experience not all ash group species have problems. For instance, good strains of *E. obliqua* of New Zealand provenances have milled very well with no problems. Logs of *E. fraxinoides* I have cut have turned out stable dimensionally and in straightness. *E. nittens* shows early promise, but I feel we should also be sorting *E. delegatensis* and *E. regnans* out genetically.

N.A. Barr

Decision making

Sir,

A recent correspondent (Mr I.L. Barton, 31(3):13-14) alluded to and somewhat casually criticized a paper written by us. Since Mr Barton did not name the paper to which he was referring, we shall — it was: “Economic analysis of selected special-purpose species regimes” by R.Y. Cavana.