



Forest Partnership Report

June 2020

Greetings!

The past twelve months have seen a range of major events for us. As an industry we've seen record monthly volumes harvested and exported, record high prices and months of low prices. We've also had crews stood down as Chinese wharves reached capacity, a forest fire, some political curveballs and along with all of this, a renewed interest in forestry investment from both New Zealand and offshore investors!

Over the last year the Forest Managers harvested 980,000 tonnes of wood. If all these logs went on a ship, we could fill one every 11 days. If all this was supplied domestically to Pan Pac– the biggest mill on the East Coast, it would take them over 15 months to process. In fact, about 25% went to local mills and the balance to export.

Meetings

It is disappointing that we're not able to get into the forests this year with the cancellation of the physical AGMs. We're already looking forward to getting back on the ground next year. It's an exciting time for all of us as your forests move into and through the harvesting and replanting process. As per the other correspondence, please bear with us as we work through the phone meetings, where possible we ask that you minimise questions, or if urgent provide them in writing so we can make sure the correct information is minuted. Every question received in writing will be dealt with or discussed at the meetings. Thank you for your understanding in this regard.

Valuations

For many of our Forest Partnerships there has been a decrease in the tree crop value for the current year – most of you will be aware of this from the draft financial statements already received. The drop in valuation is mainly brought about due to increased harvest and transport costs in the sector and harvest age. Log prices, whilst volatile over the last 12 months have remained, year on year, relatively flat.

PF Olsens have increased the average clear-fell age in their model on the East Coast of New Zealand, based on available harvest infrastructure. This has an impact on our nearer to harvest forests where the hypothetical harvest age has moved from age 26 to age 28.

In some circumstances adjoining forests will need to share harvest crews which will increase the harvest duration. What it really means is that in a large forest, say our Putere Block which consists of six different partnerships all sharing a boundary, there will not be six different harvest crews in there. For individual forests that do not adjoin other forests, this will be less of an issue, as a crew will likely locate in the forest for the duration of harvest.



Logs being processed at Kaheka 1 forest

Overall, our partnership forests' value reduced by 15.8%. Of this 7.4% was due to trees being harvested. It is never ideal to see a reduced valuation; however, I want to reiterate that these valuations are desktop only, using the current market metrics as a snapshot in time. They do change every year.

By way of comparison, our valuations went up, on average, 25.2% last year, 23.5% the year before and 12.5% the year before.

Financial Statements and Road Capitalisation

Due to Covid-19 restrictions / delays our accountants were unable to complete the notes in the draft Financial Statements. The notes will be updated in the Audited Financial Statements. We expect to receive the Audited Financial Statements for distribution by the end of August. For those of you who do not have a tax agent (accountant) preparing your personal tax returns (meaning you prepare your personal tax returns yourself), this may cause issues with your filing date. If you have a July 2020 filing date, we suggest you contact the IRD and ask to be granted an extension of time for filing your tax returns until say October 2020. They will work with you and contacting them will avoid any late filing penalties.

Roads which are constructed for harvest and used for more than 1 year – i.e. main arterial roads – will be capitalised in the Financial Statements. This means that in some circumstances, partners will have a larger profit share for the year compared to the pay-out they receive.

Log Prices

After more than 3 years of consistent log prices the previous 12 months have been very volatile. This is best seen in the charts on the side of the page.

In July 2019, when tensions escalated between USA and China - with a 25% tax on Chinese goods into the US which subsequently devalued the RMB, coupled with the overflow of damaged European Spruce forest (read more below) we saw a significant decline of around \$35 per tonne. We subsequently adjusted our harvesting with reduced volumes harvested right through to December. No sooner had prices recovered and we moved through our Christmas shutdown period, when we were struck with the effects of Chinese New Year and Covid 19 on the Chinese market (see the Black line from Jan to Feb). Inventories on the Chinese wharves increased significantly through these two downturns – with reports of up to 8 million tonnes sitting on the wharves (3.5 to 4.5 million tonnes is considered normal). The subsequent lockdown of our New Zealand operations provided a much needed reset of inventories and we began harvesting again in May for record high prices.

It seems as though the roller coaster will continue as we rebalance export volumes to overseas markets and demand as we recover from Covid 19.



Rail Transport of Logs

The Wairoa Rail commenced operation in January. The railway initially matched the cost of the road transport and we sent two loads via rail. No sooner had we begun supporting the rail did they want to increase their rates which made it uncompetitive for the current forests that could supply the rail head.

Ultimately, we want to see the rail succeed as multiple options will benefit us as forest owners in the future, but not at the expense of the forest owners. As more forests approach harvest, we will assess on an individual basis to see if rail is viable.

Forestry Amendment Bill

I want to start here by saying - we support local mills and processing! In fact, I want to go as far as saying we **strongly** support local mills and processing. We have a good working relationship with all 7 mills that our forests are located near enough to supply. Further to this, we have just agreed to supply a new mill setting up in Gisborne on a trial basis. It seems that when reporters are producing a sound bite or media taking quotes to print, they like to omit this point as it makes for more headline grabbing content.

Thank you to all those that made a submission, the Environmental Select Committee received over 600 submissions.

I won't go into long detail about the Proposed Bill, you can read about it at: <http://www.legislation.govt.nz/bill/government/2020/0250/latest/LMS324328.html>. In summary it appears to be (as heard from the Minister) a steppingstone allowing government to control the price and volumes of logs we can sell. Our mandate has always been to maximise our investors' returns, and policy that dictates where we can and cannot sell our logs is taking away our rights as private forest owners, further reducing the reward for capital that we all risked over 25 years ago to grow trees. As you know, we are already fighting increased compliance and harvesting costs eroding investor returns.

As processing and manufacturing scales up in New Zealand (we have significantly less mills sawing more finished timber), then in order to support the processors they should encourage/subsidise more efficient manufacturing through the use of technology and automation and support local construction and development in timber – not limit the price we can achieve for our logs.

Did you know, according to Dana Wood Research and Consultants, that Chinese sawmills recover 70% of a log, and NZ sawmills recover only 57-63%.

As always, we will continue to engage in the right channels, making sure that our trees that we have worked hard to grow over the last quarter century achieve the best economic outcome for forest owners and NZ Inc.

European Beetle and Wind Damaged Timber

You may have heard about the damaged timber in Central Europe over the last few years. Due to warmer climatic conditions and the fact that they have planted a lot of their spruce below the safe 600 metre altitude mark, they have a beetle (Spruce Bark Beetle) that has been breeding more regularly and spreading more prolifically. The warmer weather has also led to more storms, so

there is a lot more timber being damaged by wind. It is estimated that over 260 million cubic meters of timber has been damaged in the last 3 years.

The beetle and wind damaged timber, where possible, is being salvaged. Local sawmilling capacity has increased to process some of this excess supply. Coupled with this there is some excess supply being exported via the belt and road initiative (rail across Europe) and containerised shipping. In 2019 Europe exported 8 million m³ of logs to China, up from just over 1.3 million m³ the year prior. For some perspective NZ Inc shipped around 21 million m³ to China over the same period.

It is expected that peak harvest from the damaged timber will occur in 2021-22 and decline after that time. We have been told that damaged timber exports could remain at 6-8 million tonnes up until 2025.

It should be noted that this damaged timber making its way into China does compete in our sales market, however Chinese buyers have indicated their long-term preference for NZ pine over the damaged timber. As we were told by exporters last night - New Zealand radiata is the world's best, second-best timber. It can be used everywhere from construction through to finished wood products.

From a longer-term perspective, the outlook for New Zealand radiata seems very good. Central Europe is hugely overcutting their forest to try and eradicate the beetle, the Chinese market has managed to absorb this extra capacity albeit with some more instability in NZ at wharf gate prices. And in time, this European supply will cease to exist, paving the way for increased demand for our logs.

(In the short term we have to deal with the outcome of Covid-19 and demand for logs and lumber as the world moves through a recession).

Carbon and the Emissions Trading Scheme

One pillar of stability over the last year has been the Carbon price. It has moved between \$22 and \$25 with an exception earlier this year when a review of the ETS signalled the price cap could go higher which saw a window of trading above \$28.

In early June the Emission Trading Reform Bill had its second reading. There were some significant announcements for the ETS. The government has signalled that the price cap for NZUs will be lifted to \$35 per tonne, up from \$25 per tonne. There will also been a price floor of \$20 enacted. These prices are forecast to increase by two percent in future years. When auctioning of NZUs begins next year, the government will contain the price at \$50.

Along with these updates they have further advanced phase down of industrial allocations and are working towards the inclusion of Agriculture. These updates and a raft of other changes can be read at <https://www.mfe.govt.nz/overview-reforming-new-zealand-emissions-trading-scheme>.

Overall, the outlook for carbon remains very positive, and these signals from the government solidify that view. From an investment perspective, an increased carbon price allows for forests to provide additional early income for new greenfields forest investment.



New Investments

By our calculations our company is planting 10% of this year's goal for New Zealand's billion tree programme – we are unsure if the billion trees fund will meet its yearly objective, so we may represent an even larger percentage.

Alongside the replanting of our existing harvesting forests we are planting a further 3,000 ha of greenfield forests. We have successfully promoted and syndicated Seaview Forest LP, and are currently working through Huntingwood Forest LP, a multi-forest investment with near to harvest trees and a new greenfields forest.

Both these opportunities were very quickly oversubscribed, and we are actively searching the market for further forest investments. Please let us know if you would like to be contacted by way of priority for the next opportunity – contact Grant or email invest@rogerdickie.co.nz

We look forward to returning to normal, or as near as we can be, and seeing you all at our next forest visits.

Regards

Roger Dickie

Will Dickie

AUGUSTA

Forest Partnership



Forest Managers Report March 2020

The past six months have been challenging for both our forests and their managers. The very dry spring and summer conditions have created moisture stress amongst the trees in some of the worst affected areas. The lack of rain has also meant our forests have been under a code red (extreme) fire risk for several weeks. This has meant the postponement of all silvicultural work and limited access to the forests due to the potential ignition of the dry material in and around the forests.

The Tangoio Forest fire in January 2020 was a sharp reminder of just how important fire prevention protocols are. FMNZ staff quickly became an integral part of the FENZ firefighting effort which engaged many of our Napier team for several days. Once the fire was out, there was ongoing monitoring required for any hotspots that may appear.

Post fire, we held a debrief to assess our performance and look at any areas in which we could improve. This identified some additional firefighting equipment and protective clothing required to assist our capacity on the front line. It also identified some changes required to identify water points available in and around the forests. These improvements will be implemented prior to the next fire season.

Our harvest crews have also had a challenging time having to cope with major export log price decrease in July 2019 and again in February 2020. On both occasions their harvest production has been capped to minimise harvest while the log prices are low. This has had a significant effect on their businesses. Add a global pandemic to the mix and we will see contractors who are going to struggle financially over the coming months. We can only work with them on a case by case basis to get through this difficult period.

Forest Health

Forest health at both forests is generally very good however, some rain would be welcome. There are isolated pockets of trees showing old red needle cast symptoms in the lower canopy however the foliage in the upper canopy looks healthy.

We are seeing ongoing windthrow in the Mangamahu block with a few more toppled trees evident each time we visit the forest. There is one area on the main access track in particular that seems reluctant to stabilise, particularly when we get the combination of very wet and windy conditions. We have seen less attrition during this very dry summer.

Tracking

Tracking maintenance at the Napier forest was carried out in December and tracks remain in excellent condition. We have good access throughout the forest and the dry summer has helped to keep the tracks in good repair. The budget was \$3,500 and we spent \$3,531.

The Mangamahu tracks which were tidied up in June are currently blocked by a handful of toppled trees. We will wait to clear these until the harvest road formation commences as they are across the main access track.

We have made allowance in the 2021 budget of \$3,500

for tracking maintenance on the Napier block should it be required.

Harvest Preparation - Mangamahu

The harvest plan has been completed with the final work having been carried out over January/February. The plan takes into account the volume of wood to be harvested and carted so the most cost efficient infrastructure can be designed and costed to ensure harvest costs are minimised. We had budgeted \$3,640 for this work and spent \$3,640.

Now the plan is complete, much of the information contained in the plan can then be used in the drafting of the notification and application for resource consent. This is required by Horizons Regional Council under the National Environmental Standard (NES) and needs to be signed off before any earthworks or harvest can commence.

We had budgeted \$3,750 for consents and none of this allowance has been used. We have carried over \$2,000 into the 2021 budget for completion of this consenting work.

We have scheduled the commencement of the road formation and roadline harvest for the end of the year/early in 2021. Whether we proceed with this work or not will be very dependent on the log prices at the time as this is a block that we would not want to be operating in during a period of low prices.

Forestry Right - Mangamahu

In last years' budget we allowed \$12,000 for the purchase of the forestry right and a further \$500 to cover legal fees. This remains unspent and following analysis of the harvest inventory data and the harvest plan, have decided we can work around the forestry right without the need to purchase it which is good news for the forest owners.

Permanent Sample Plots

We have made allowance of \$600 in the 2021 budget for the re-measurement of the two permanent sample plots in the Napier forest. This is scheduled for October.



Overlooking healthy stand along the boundary



Good looking stand of trees with clear understory

Weed and Pest - Napier

Inkweed and Ongaonga is prolific right through the Napier forest along with blackberry along the track edges. We have no plans to carry out weed control unless the Ongaonga gets too close to the track edges.

Following advice the property owners were now responsible for possum control, we made allowance of \$2,500 in the budget for this work. There has subsequently been a TB reactor in the area and the possum control is now back under the auspices of the Animal Health Board contractors. The contractors were in the property recently laying bait stations for possums and rats as part of the TB Free programme.

We have allowed \$900 in the 2021 budget for goat control as while we are eradicating these pests in the neighbouring Carlsberg Forest, we may as well keep on top of the population in Augusta Forest also.

Weed and Pest – Mangamahu

Gorse is the main weed at Mangamahu however, does not require control at this stage.

The \$1,000 we budgeted for possum control has not been spent. We are starting to see signs of possum trails and scratching in the forest and have allowed \$1,250 in the 2021 budget for possum control.

Carbon Sales

No NZUs have been sold over the past six months.

The NZU holding as at the end of February was 87,018 units. This is comprised of 25,839 liability free units and 61,179 units that do carry liability.

These figures do not include the 2019 unit allocation which had not been received by the end of the financial year.

NZU Price

The NZU price at the beginning of September 2019 was \$24.80 and remained around that level until December when it started heading northward to a peak of \$29.20 recorded on 20th January. The price then eased back to \$26.45 by the end of February.

Until more details around the governments' cost containment reserve (auctioning) are forthcoming prices are likely to remain in the vicinity of \$25.

Wairoa Rail Hub

The first train carrying logs made the trip from the Wairoa Rail Hub to Napier Port on 26th January. Kiwirail have engaged ISO to scale and marshall the logs at the rail hub before they are loaded onto the carriages and railed to Napier Port.

We have always operated on the understanding we will use the rail service provided it is cost effective for us to do so. The freight cost for the first log shipment offered marginal savings at best for logs from three of our forests. Kiwirail subsequently applied a FAF increase (fuel adjustment) for February which meant there was no longer a freight cost benefit to be gained from using the service.

We have advised Kiwirail the service is not economic for us to use and they were to come back to us, hopefully with revised freight rates.

Steve Bell
Forest Manager



Tracks cleared

4 May 2020

Silks Audit Chartered Accountants
PO Box 7144
Wanganui 4541

Arborfield Forest - Tree crop valuation

As requested, we have assessed the fair value of the tree crop assets at Arborfield forest owned by Arborfield Forest Partnership. The purpose of this valuation is for reporting in the owner's annual accounts. This valuation of the tree crop meets the NZ IAS 41 accounting standard.

The tree crop market value is estimated as at 29 February 2020 at:

\$9,268, 000 plus GST (if any)

The current productive net stocked area is estimated at 353.9 hectares.

This value estimate excludes the value of the land and the improvements thereon, other than the trees and any associated harvest roading. The value estimate does not include the contingent tax liability on the income arising from the sale of the trees, or the logs at maturity. Also excluded are costs and revenues associated with subsequent crops.

Valuation methodology

The market value of the tree crop is assessed by discounting a prospective purchaser's future costs and revenues at a discount rate of 6.0%. The discount rate is based on analyses of recent transactions in New Zealand, and therefore reflects the recent market for forests. Future costs and revenues are expressed in real (2020) NZ dollar terms, exclusive of GST.

The methodology adopted is described in the New Zealand Institute of Forestry (NZIF) Forest Valuation Standards (May 1999). The valuation report presented here is a brief outline of the method adopted and the assumptions made. It does not comply with all disclosure requirements contained in these standards. The reader is referred to the full valuation report entitled "Roger Dickie (NZ) Ltd – Tree Crop Valuation – April 2020" for a complete description of the methodology and assumptions.

Key inputs

Net stocked areas and forest condition are based on current best estimates as provided by the forest manager, Forest Management NZ Ltd (FMNZ). PF Olsen inspected a selection of forests and found that the forest information provided by FMNZ gave a fair representation of the tree crop growing in these forests.

Future yields are projected assuming current best practice management. Projected yields are based on measured starting points where data allows. Measurement data has been supplied by FMNZ. These data have been collected using industry standard methods and protocols. Projected yields have been calibrated to actual harvest yields where available. The timing of future clearfelling has been based on harvest schedule modelling carried out by FMNZ.

Future operational costs are based on current industry standards and have been benchmarked against contract rates prevalent over the past year. Log prices are based on the average of the most recent three years to February 2020, as achieved at the ports in Gisborne, Napier and Wellington. No real price increase is assumed.

Tree crop value change analysis

As part of this valuation, we have examined the impact of changes in the forest description and valuation assumptions used to assess the tree crop value relative to the value estimated last year. This is accomplished by calculating the marginal contribution to the total change in tree crop value from updating each of the key factors in sequence.

Table 1: Tree crop value changes since last year

Change item	Tree Crop Value (000's)
Tree crop value last year	10,023
Update area	10,023
Advance date one year	10,940
Update yields, clearfell age	10,103
Update costs	9,743
Update log prices	9,210
Update discount rate	9,268
Tree crop value this year	9,268
Main changes	Harvest year

Area changes, if any, are mainly the result of harvesting and minor remapping of the stocked area during the year, as advised by FMNZ.

Table 2: Reasons for area change since last year

Area change (ha)	Reason
0.0	No change

Adding one year to the valuation date adds physical growth and moves the forest one year closer to maturity.

Planned clearfell ages have been increased, on average, based on available harvesting infrastructure and harvest schedule modelling. This has a significant impact on a majority of mature forests.

The costs for local authority rates and insurance have risen this year. The unit costs for road construction and other infrastructure have increased significantly from last year.

Prices for all radiata sawlogs have decreased this year, while prices for pulp grades have remained relatively flat. Export log prices have been fluctuating since last year due to market downturn and recent COVID-19 events. This has negative impact on tree crop value.

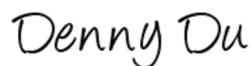
Harvest revenue

Based on the assumptions adopted for the purpose of this valuation, the owner of Arborfield forest is projected to receive a total net stumpage revenue of approximately \$ 14,952,000 in year 2025.

This projected stumpage revenue is expressed in 2020 NZ dollar terms, and based on the projected yields, costs and log prices assumed in this valuation. The harvest year is based on a weighted average date of maturity for the forest. Harvest operations may commence sooner than, and last beyond, the year shown above.

Yours sincerely

PF OLSEN LIMITED



DENNY DU

Forest Analyst



ANDREW CLARKE

Registered Forestry Consultant (NZIF)

Disclaimer

This valuation was commissioned by Roger Dickie (NZ) Ltd for the purpose of reporting in the individual partnership, or owner, accounts. The valuation is not suitable for sale and purchase.

The tree crop values calculated within this report are based on our assessment of current costs and future revenues. This assessment of costs and revenues is not a promise or guarantee by PF Olsen Limited that these will be realised. No promise or warranty is given pertaining to the accuracy or completeness of information supplied by Roger Dickie (NZ) Ltd, Forest Management NZ Ltd, or by third parties, except to the extent that this has been validated by PF Olsen Limited.

This report is only for use by the entity that commissioned it and solely for the purposes stated above. PF Olsen Limited, and its employees, shall have no liability to any other person or entity in respect of this report, or for its use other than for the stated purpose. PF Olsen Limited and its employees accept no liability for indirect or consequential losses or damages arising from the use of this report under any circumstances.

PF Olsen Limited is an independent forestry management and consulting company. Our company relationship with Roger Dickie (NZ) Ltd is one of providing forestry services and advice on a fee and re-imburement of costs basis. The owners or employees of PF Olsen Limited have no interest in, or relationship with Roger Dickie (NZ) Ltd, Forest Management NZ Ltd, or the Partnership, apart from that listed above.