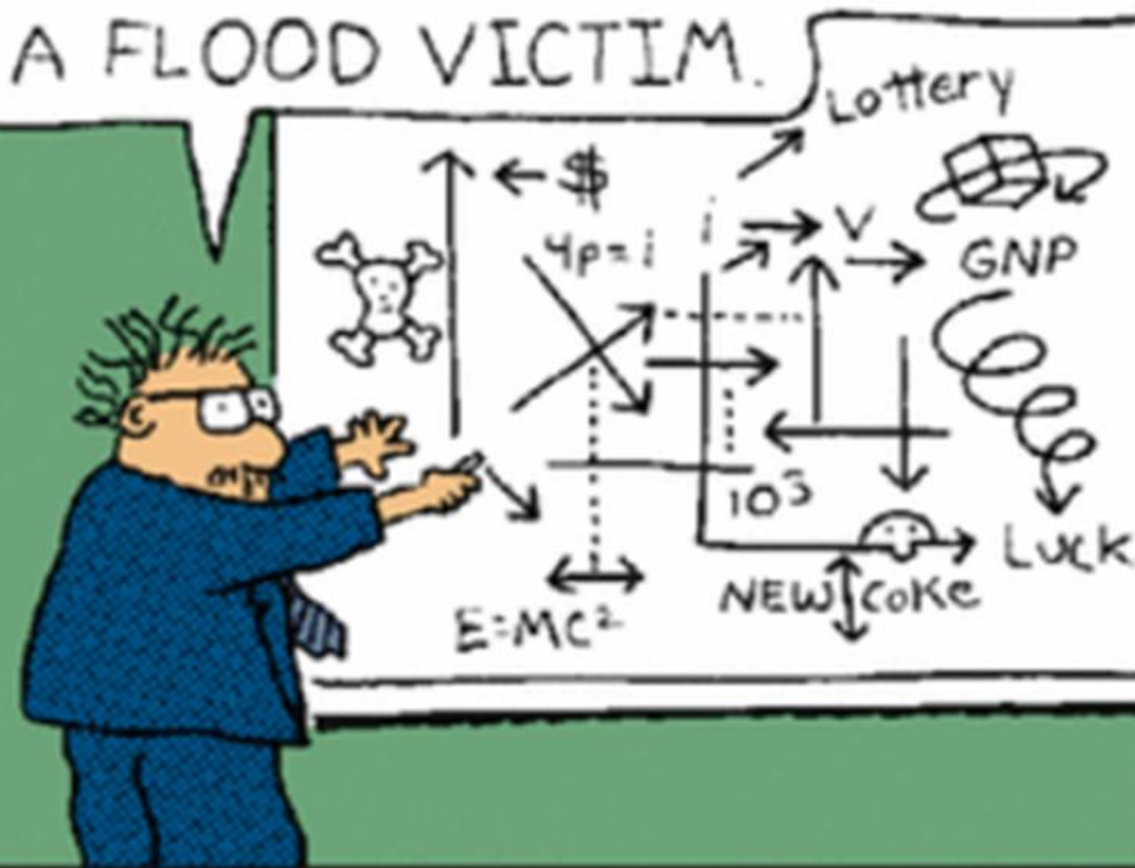


Bert Hughes, RMNZIF,
CMinstD

Investment
in forestry, or
Happiness
and
uncertainty.



THIS DIAGRAM EXPLAINS
WHY I'M AN EXPERT IN
MONEY YET I DRESS LIKE
A FLOOD VICTIM.



“Trying to be consistently not stupid” (Charlie Munger)

Avoiding screw ups pays better than continuous improvement.

Don't be a dick Boris







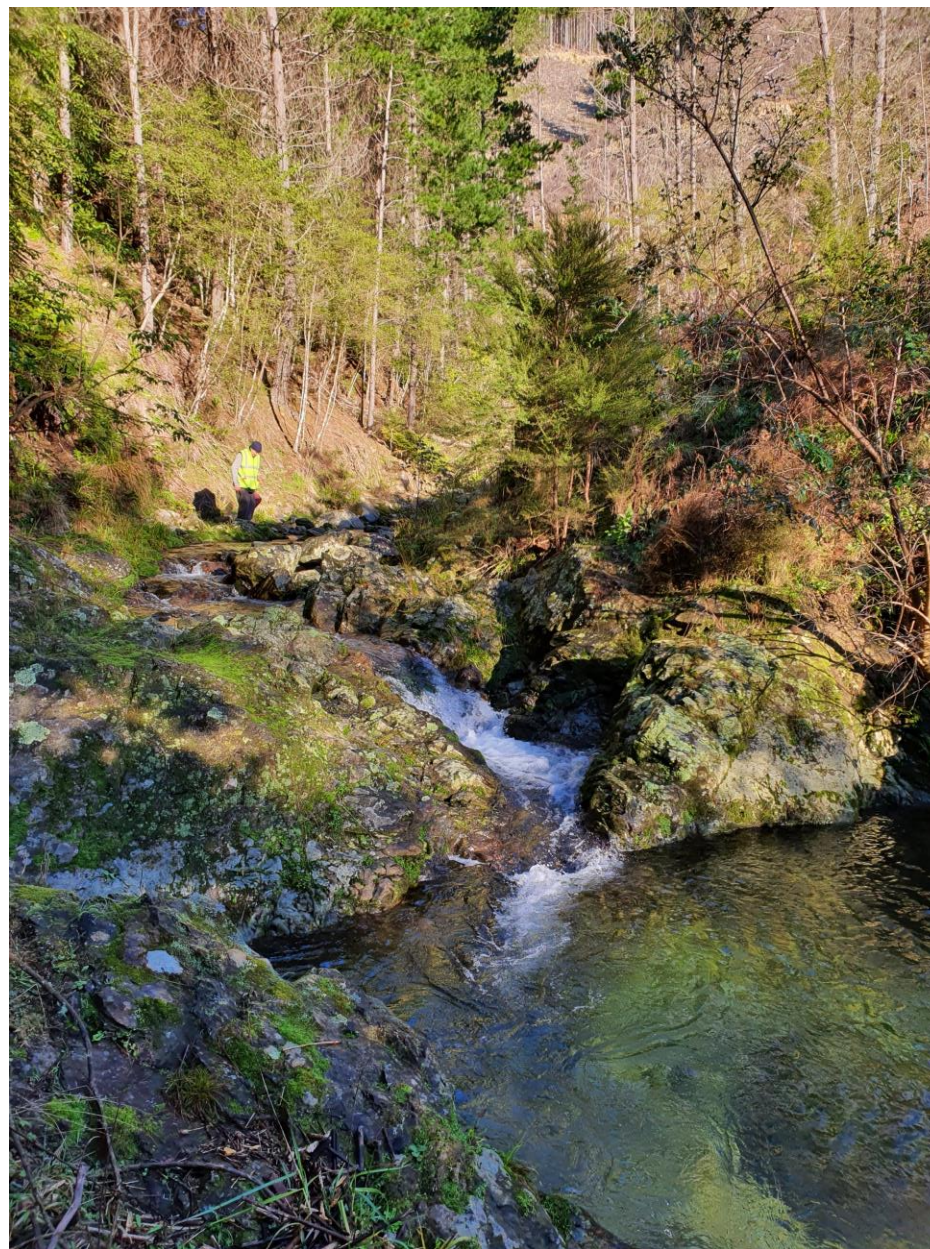
Wairoa City Centre



Cows like the
water



Trees like
water too



A photograph of a sawmill interior. Large logs are on the left, and a saw blade is visible in the center. The text "Local Sawmills, we love your work!" is overlaid in white. In the foreground, there are two computer monitors displaying software interfaces. The background shows the complex machinery and structure of the sawmill.

Local Sawmills, we love
your work!





The wall of wood





What's the competition doing?

I'll just give
those a quick
tidy up, they'll
come good.
Quality
matters



Behavioural economics

Why do smart people do dumb things?

Thinking fast and slow, instinct or calculation?

Bias and rules of thumb, rules reduce bias

Rational investments, herds, charts, fashion and day trading

Cut your losses, ride your wins

Super forecasters adjust their forecasts as they learn (Bayes)

FOREST INVESTMENT FOR INDIVIDUALS

Bert Hughes- Forestry Director, Gordon Wong – Legal Services Director, Forest Enterprises Limited

OUTLINE

The focus of this section is plantation forest investment in radiata pine and any trading regimes directed at the production of clear wood and sawlogs which add to investment returns or reduce risk. Radiata pine clear wood regimes were the predominant type of forestry in the previous iteration of the NZF handbook. However, planting is now regarded as an optional investment subject to cost benefit analysis or investor preference.

Forestry can be classed as an alternative investment, compared with other classifications such as shares, commercial property, or bonds. Alternative investments as a category and category individual forest investments have opportunity for improved investment returns. However, the application of skilled management practices. Conversely the lack of specific competency in forest and investment management will greatly increase investment risk. Investors considering forestry as an investment need to be aware of several features that distinguish it from other investment options

ADVANTAGES AND DISADVANTAGES OF FORESTRY AS AN INVESTMENT

Investors considering forestry as an investment need to be aware of a number of features that distinguish it from other investment options. The most important of these are listed below:

Advantages

- An investment with returns linked directly to international prices for forest products.
- Efficient investment classification
- Where land is purchased, an investment in rural land.
- A wide time frame over which the forest can be harvested, which allows the forest to be carried forward over periods when markets are less favourable.
- Versatility of use and uses for forestry estates which diversifies the market risk.
- Prices of logs have historically kept up with inflation. Forestry investment is still generally recognised as a hedge against inflation. The historical world demand for industrial wood is closely correlated with a combination of population and gross domestic product growth.
- There are taxation advantages, both through deductibility, and deferral of taxable income until the end of the project.
- An investment which can be professionally managed.
- Relatively low risks for forest products.
- An investment well suited to spreading risks in a balanced investment portfolio.
- A traditional investment that has not been undercut by rapid changes in technological developments.
- An environmentally sound renewable resource with low energy inputs and the capacity to reduce atmospheric carbon.
- A catalyst that suits superannuation requirements.
- The ability to be closely involved with a tangible biological investment.
- Recreation opportunities.

Disadvantages

- The investment is long term in nature. Radiata pine in New Zealand will require a rotation of around 25–30 years before maturity is reached.
- In most forest growing investment ventures, any income prior to forest maturity will be minor unless there are available carbon credits to sell.
- The cash flow profile of forest growing requires an ongoing funding commitment during the establishment and tendering phases. The tendering and sales cycle from years 4 to 10, normally requires a higher level of funding than the initial establishment.
- Future markets 25 to 30 years ahead are impossible to predict. Market risks may therefore be significant. Market returns are affected by substitution from other products, input costs (including freight rates to get wood to markets), the relative long-term strength of the New Zealand currency compared with other countries, and economic growth factors.
- Biological risk exists, although New Zealand has to date shown a commitment to research and border control to mitigate the risk.
- Climatic risk including wind and drought. Insurance can partially mitigate this risk. Good establishment and silvicultural practices will reduce risk.
- This risk. Most forest owners insure against this risk.
- Financial risk. Changes in taxation policy, changes in financial circumstances of other investors and changes in the length of rotation because of market factors.

STATUTES RELATING TO FORESTRY INVESTMENT

The most important pieces of legislation relating to the investment of consultants, advisors or promoters of forestry investment products are:

- Financial Markets Conduct Act 2013.
- Financial Advisers Act 2008.
- Anti-Money Laundering and Countering Financing of Terrorism Act 2009

Financial Markets Conduct Act 2013 (FMCACT)

This Act regulates offers of "financial products", which include four discrete categories – equity securities, debt securities, managed investment products and derivatives. It ensures protection in place, including prescriptive disclosure requirements, to support fair, efficient and transparent financial markets.

Certain disclosure obligations will apply if an offer is a "regulated offer" of financial products, essentially among which are the other relevant retail investors.

The FMCACT also implements fair dealing rules for financial products and services, which apply to both retail and wholesale clients. The Act creates registration and governing document requirements for regulated offers of debt securities and managed investment schemes, and creates a licensing regime for managers of registered managed investment schemes.

With the contributory nature of forestry investment and the longer term horizon from planting of seedlings until harvest of the tree crop, on average around 25-30 years, the most suitable structure for affordable forestry investment at the retail level is a limited partnership. This has the benefits of limited liability which a company has, but unlike a company, losses can be deducted against other income and are not trapped in the company. It also enables calls to be made, typically on an annual basis to meet the ongoing silvicultural costs.

Limited partnerships fall into the category of managed investment schemes under the FMCACT. Therefore if a forestry managed investment scheme is offered to retail investors, it will need to be registered on what is known as the Disclosure Register and it is subject to disclosures and

governance requirements under the FMCACT. The manager of the scheme must be licensed and an independent statutory supervisor (trustee) must be appointed.

Unless one of the exemptions in the FMCACT applies, an offer of financial products in a forestry managed investment scheme to retail investors requires a Product Disclosure Statement (PDS). A PDS provides a potential investor with essential information to help them decide whether to invest in a financial product. It uses clear language to explain the product, how it works and provides information about the business that is offering it. Importantly, it will give an investor an understanding of the risks and returns and the fees and charges involved in the investment.

Information on a registered forestry managed investment scheme will also be publicly available on the Disclosure Register website which will include audited financial statements, governing documents of the scheme, and how the scheme is managed (for example the requirement for a Statement of Investment Performance and Objectives). This financial services providers must keep this information up-to-date while they continue to offer the financial products, so investors can check online for the most scheme and product details.

Financial Advisers Act 2008 (FAA)

The Act applies to a "financial adviser service" which includes giving financial advice, and providing an investment planning service or a discretionary investment management service. The FAA regulates financial advisers by requiring providers of financial adviser services to be registered, or in certain cases, authorised by the Financial Markets Authority.

There are general conduct requirements on financial advisers such as an obligation to exercise care, diligence and skill when performing services. The FAA requires disclosure by financial advisers and brokers to retail clients, ensuring that clients can make informed decisions about whether to use the financial adviser and whether to follow the advice. There are also competency requirements on certain financial advisers who deal with retail clients, so they must have the experience, expertise, and integrity to match a person to a financial product that best meets that person's needs and risk profile.

Anti-Money Laundering and Countering Financing of Terrorism Act 2009 (AMLCFT Act)

The Act imposes obligations on "reporting entities" which includes offices of forestry investment and managers of forestry investment schemes. Reporting entities must have in place processes and procedures to detect, deter, manage and mitigate money laundering and the financing of terrorism.

One of the key obligations of the AMLCFT Act requires reporting entities to verify the identity of their clients prior to entering into a transaction. This process, known under the Act as customer due diligence, involves verification of identity, date of birth and address which can be confirmed by acceptable documents such as a driver's license or birth certificate and documents showing an address. If an investor is a trust, the reporting entity will also need information about the people associated with it, such as trustees and beneficiaries. They may also need to ask the client about the nature and purpose of the investment. Information concerning the source of funds for a transaction may also be necessary to meet the legal requirements.

FORESTRY INVESTMENT STRUCTURES

The main types of investment structures for forestry projects, with key features, are summarised below:

Individual Ownership

This is where an individual owns the land and forest, and has direct control over the physical and financial aspects of the investment. The current taxation regime allows the individual to deduct most forestry development expenditure against income from any source.

Unincorporated Forestry Joint Ventures

Joint ventures come in a variety of formats, but in New Zealand forestry they most frequently refer to the situation where one party contributes the land and another the investment funds. The Forestry Rights Registration Act 1983 provides a relatively simple mechanism for registration of an agreement between an investor and a land-owner against the land title. Through use of this mechanism cooperative survey costs can be avoided. The agreement between the parties should be carefully drafted to try and cover all matters that could arise over a 30-year rotation.

The most common situation in joint venture arrangements in New Zealand is to establish at the outset the provision for sharing of income in proportion to each party's planned contribution. The current taxation regime allows each party to deduct most of its forestry development costs against income from any source. As a forestry joint venture is usually a private investment agreement between parties, and not a regulated offer, a product disclosure statement under the FMCACT is not required.

The Forestry Rights Registration Act can also be used as a mechanism for separation of the ownership of land from the ownership of the trees for an existing forest. It is possible for a land-owner to grant itself a forestry right for trees growing on its own land and then sell the land without tax being payable on the trees retained.

Ordinary Partnerships

Before the Limited Partnerships Act 2008 was passed, ordinary partnerships were the most common mechanism for forestry investment involving groups of investment from a number of individuals. Partnerships, under the current taxation regime, allow each party to deduct most of its forestry development costs against income from any source. Partners are however personally liable for the future liabilities of the venture and this is why limited partnerships are now the preferred structure.

Limited Partnerships

The attraction of limited partnerships for investors and investment managers lies in the tax treatment and flexibility of limited partnerships when compared to other corporate structures such as companies and trusts.

A limited partnership is transparent for New Zealand tax purposes and the limited partnership itself is not taxed. Instead, the limited partners themselves are treated as carrying on the taxable activity and are taxed according to their own tax attributes and in relation to their proportionate share of the limited partnership's income. As a forestry limited partnership incurs forest establishment and development expenditure, subject to some limits, those losses can flow through to the limited partners and can be offset against their other income.

Every limited partnership must be formed with a general partner which is responsible for the management of the limited partnership. The general partner is in effect the agent of the limited partnership for the purposes of its business. The general partner is jointly and severally liable with the limited partnership for the limited partnership's unpaid debts and liabilities.

A limited partner's liability is limited to the amount that they have agreed to contribute to the capital of the limited partnership. In exchange for that protection, the Limited Partnerships Act 2008 provides that a limited partner must not take part in the management of the limited partnership. If a limited partner does so then the limited partner may be liable to the same extent as a general partner for debts and liabilities incurred while they were taking part in the management.

Limited partnerships which are managed investment schemes and which offer shares to retail investors are subject to the regulatory and disclosure regime in the Financial Markets Conduct Act.

Companies

Companies are not generally a popular choice for aggregating individual investment monies for forestry, as the tax deductibility issues with the company rather than the individual shareholders. Companies have the advantage of removing personal liability from the individual investors and can be a mechanism for relatively easy transfer of interests during the growing cycle.

Trading Trusts

A trading trust is usually a discretionary trust that carries on active business and the trustee of the trust is usually (but not always) a company. They are usually structured to limit the ability for trustees to be indemnified from the trust's fund. Trading trusts can be used to own forests. Their main advantage is in the flexibility of distributing income or capital to beneficiaries. However, losses incurred through tax deductibility remain in the trust and cannot be directly passed on to beneficiaries.

SEPARATION OF ROLES IN FORESTRY INVESTMENT

There are normally at least five main parties in any larger forestry project. To avoid conflicts of interest and adequate monitoring and accountability, there is a need to clearly distinguish between the roles of these parties. Combining more than one role in one body can undermine the ability of the investors to control the investment.

Promoters

The promoter takes an initial risk to facilitate projects. Their rewards in terms of success fees ("promoter fees", "issue expenses", "promoter fees", "brokerage" etc) should be carefully weighed. Some promoters also take a "first" share of the project and a commission on final revenues. Carefully compare the total remuneration package of the promoter with other forestry investments on offer.

Investors

Unless investors are participants in a managed scheme registered under the FMCACT, these should be structured to have a separate management committee or directors with investor representation to ensure that the forest is being managed in their long-term interests.

1

2

3

4

5

Managers

Normally managers are initially appointed by the promoters to organise operational work in accordance with a forest management plan. Remuneration is usually by way of a percentage charge on forest inputs plus separate fixed charges for accounting and administration. Powers to replace the managers, where necessary, should rest with the investors rather than the promoter.

Consultants/ Auditors

Investors should ensure that there is provision in the investment structure for independent advice and audit of both forestry management and financial reporting.

Supervisor

Where an offer of financial products is made under the FMCACT, a Supervisor (normally a trustee company) is required to act in the interests of the investors and ensure that the offer contained in the product disclosure statement and governing documents is adhered to.

LOCATION

The majority of the produce from forests in New Zealand will be exported in one form or another. The two location factors that will have the greatest impact on profitability are: a) proximity to a deep-water port, and b) proximity to a market for domestic sawlogs.

Physical access for harvesting needs to be considered carefully because forest roading costs can, in difficult topography, take up high percentages of harvesting revenues, and in extreme cases render harvesting unprofitable.

SITE CONDITIONS

Consideration needs to be given to:

- Topography – steep and difficult topography will reduce the profitability of a forestry investment, mainly through the higher roading and harvesting costs incurred.
- Soils – check that the depth and fertility are similar to other good forest areas in the locality. Ensure that adequate allowances have been made for weeping, stony soils, highly mineralised soil, and other poor soil types. Roading costs are highly correlated to soil types as forest roading requires large quantities of sufficiently hard rock to construct adequate pavements for forest roads. Where rock is not available locally substantial costs arise from transporting material for use as pavement base course or traction material. Certain soil types require higher levels of construction cost for practices such as end hauling available material to dumpsites, stabilising unconsolidated fill, and controlling storm water flows. A prudent investor should get specific advice from a person skilled in civil engineering regarding erosion susceptibility, roading costs and risks and best practice practices on specific sites.
- Rainfall – the normal minimum annual rainfall for optimum growth is 800mm per annum. Where rainfall is between 600 and 800mm per annum, check that the forecast yields reflect the lower availability of rain.
- Altitude and temperature – Radiata pine grows faster and produces stronger wood in the warmer and lower altitude parts of New Zealand.
- Other climatic factors – check for wind exposures, snow, and ice should be considered. Radiata pine should not be planted as a commercial crop in areas subject to risk of significant or extended snowfall.

- Wood cover – difficult woods such as gorse and broom can substantially increase establishment and roading costs, and directly affect profitability.

GROWTH AND YIELD CONSIDERATIONS

Tree growth is related to the site factors discussed above, to the genetic quality of the growing stock, and to the forest management regime applied.

A range of growth and log out-turn models have been developed by the industry which apply to different stages of growth, and to different geographical regions and different silvicultural options. Project growth and yield assumptions should be supported by verifiable growth model runs and log grade out-turn runs. The quality of such modelling is dependent on the use of appropriate input data and assumptions. Yield projections should also take into account potential losses from wind, soil erosion, mortality and animal damage. Advice from an independent consultant on growth and yield assumptions should be sought if an investor has any concerns about the applicability of assumptions made for the project.

Optimal rotation lengths will typically be in the range of 25 to 33 years and low projected intermediate classed volumes typically should fall in the range of 450 to 750 m³ per site/ha.

FOREST MANAGEMENT PLAN: REVENUE AND COSTS

Cashflow Forecast

The forest management plan for an investment project should include a cash flow analysis setting out the annual operations and costs through the duration of the growing of the forest crop. Projected costs and returns should be expressed in current-day real dollars to remove the effects of inflation.

Costs

Costs should be realistic for the work envisaged, and take into account direct operational costs, field supervision, management and other overheads. Contingencies should be provided to cover unexpected costs such as dealing with tree topping, and additional weed control, nutrient deficiency or anti-fungal spraying.

The schedule of the pruning and thinning operations should set out the target pruned height for each pruning III, and the target slashings for thinning operations.

Most forestry costs are expressed on a per-hectare basis which allows comparisons to be made with other past and planned forestry investment opportunities in the area.

The costs of set-up, promotion, audit, commission, consultant reports and legal advice will be associated with most forestry investment ventures. These costs will vary widely depending on the size of the project and the investment structure. Again prospective investors should compare these costs carefully with other past and planned forestry investment opportunities.

Revenues

Projected revenue returns should reflect what is currently being achieved for the respective log grades. As mentioned above, projected log grade out-turn should be supported by expert system modelling runs with experience-based adjustments. The schedule of projected log grade out-turns should be consistent with the silvicultural management proposed for the crop.

Generally forestry investment projects are evaluated on a simple rotation basis with a residual land value at the end of the rotation if the project involves land purchase. Most commonly the residual land value will be assumed to equal to the purchase value, or the value adopted for the beginning of the project.

Forestry land values are generally stable for long periods and intermittently increase at unknown time intervals. Poor quality land may have low value and high-quality land usually gains value. Some cutting forest land class areas may have no cash flow or tree crop return, for example land in high snowfall risk areas, high erosion susceptibility or high environmental sensitivity. Land value plays a role in the returns to forest investments but is generally of lower specific return than the crop return unless the land can be sold to a higher or better use at the end of the investment period.

The land should be described with respect to characteristics which have direct impacts on site productivity and operating costs. Factors affecting productivity will have substantial impact on value and risk as the volumes of log products by grade are the major driver of revenues. These factors are mostly related to soil type, rainfall, wind speed, and wind run and average or extreme temperatures. Factors affecting cost are climate, location, aspect, slope, soil stability, underboring root type. These factors affect travel cost, transport cost, machine configuration requirements for harvest and roading, and risk of adverse events from erosion susceptibility, flooding, windstorm or fire risk. It has become increasingly apparent to informed investors that in forestry schemes it is highly correlated to land quality. Sheep, remote, inaccessible land has additional risks arising from health and safety compliance management due to the nature of the terrain, as well as greatly increased environmental risk on steep or erodible soil types. Some land currently in commercial forestry is unfit for purposes and the increases in risk coupled with a focus on 'discovery' liability is resulting in such land being retired from prudent commercial use. High quality forests with good management have considerably less risk than average, or poor-quality forests, this is of major importance to the prospective forest investor.

FINANCIAL PERFORMANCE OF A FORESTRY PROJECT

Cash flow projections for forest investments should match the forest management planned over the costs and revenue arise from the application of the plan. The forest plan should describe the planning and tending operations in detail as the tending operations are intended to add value to the tree crop or reduce risk. Events such as pruning, and thinning are major cost items and need to have clear value and quality outcomes planned to justify the investment expense incurred.

Forest cashflows typically are expenditures of capital for land, annual expenses of management, taxes, insurance, maintenance, security and periodic expenses of tending and mapping, stand records or measurement events. Income cashflows are normally at the end of the investment as harvesting occurs over several years followed by a land sale to close out the investment. Investment promoters normally plan for revenue to occur costs from the promoters as marketing process.

The projected financial performance of a forestry project will generally be expressed as the internal rate of return (IRR). The IRR of an investment is defined as that discount rate where the discounted costs and revenues sum to zero. Put another way it is the maximum projected rate of return (before inflation) that an investor could expect to pay on a loan to fund the whole investment, and break even at the end.

Provided that all costs and returns are expressed in current day dollars, and costs and returns move similarly with inflation, then the rate of return (IRR) is a real rate – i.e. the rate which is expected to be achieved over and above inflation.

IRRs can be expressed as pre-tax or post-tax. For simplicity, because future taxation policy is uncertain, and because different individuals have different tax liabilities, pre-tax IRRs are most commonly used as the benchmark for comparison purposes. A well-written product disclosure statement should allow an investor to adjust, or sensitivity test, the calculated rate of return under differing assumptions or circumstances. IRRs are particularly sensitive to:

- log prices;
- log yields by grade;
- total log volumes; and
- Costs such as harvesting and road construction.

A forestry investment should be well described to investors with quality mapping and land descriptions, systematic crop or stand records, a forest and land management plan extending for the entire investment period, and detailed cash flow projections. Professionally managed investments should include annual audits of financial and physical assets of the scheme as well as comprehensive annual accounts and reporting.

6

7

8

9

FOREST INVESTMENT FOR INDIVIDUALS

Bert Hughes, Gordon Wong – Legal Services Director,

ADVANTAGES AND DISADVANTAGES OF FORESTRY AS AN INVESTMENT

Advantages

- returns linked to international prices for forest products.
- Ethical investment, clean water, sustainability
- Environmentally sound renewable resource with low energy inputs, reduces CO2
- investment in rural land.
- wide time frame for harvest,
- Versatility of end uses for forestry outputs diversifies risk.
- Price of logs historically kept up with inflation.
- demand for industrial wood is correlated with population and GDP growth.
- taxation advantages, deductibility, and deferral of taxable income.
- can be professionally managed.
- Relatively free trade for forest products.
- spreading risks in a balanced portfolio, with long duration.
- Traditional investment, has not been undercut by rapid changes in technology
- cashflow suits superannuation requirements.
- tangible biological investment.
- Recreation opportunities.

Disadvantages

- long term
- income prior to maturity minor unless there are carbon credits.
- requires expenditure during the establishment and tending phases. tending normally requires higher funding than establishment.
- markets 25 to 30 years ahead are unpredictable. Market risks may be significant. Market returns are affected by demographics, substitution, input costs (including freight), forex, and economic growth factors.
- Biological risk , New Zealand has research and border control to mitigate the risk.
- Climatic risk, wind, snow and drought. Insurance can partially mitigate this risk.
- Fire risk. Can insure against this risk.
- Safety and enviro risk must be managed
- Financial risk. taxation policy, financial circumstances of other investors and changes in the length of rotation due to market factors.

STATUTES RELATING TO FORESTRY INVESTMENT

The most important pieces of legislation relating to the involvement of consultants, advisors or promoters of forestry investment products are:

Financial Markets Conduct Act 2013 (“FMC Act”)

Financial Advisers Act 2008 (“FAA”)

Anti-Money Laundering and Countering Financing of Terrorism Act 2009 (“AML/CFT Act”)

FORESTRY INVESTMENT STRUCTURES

Individual Ownership

Unincorporated Forestry Joint Ventures

Ordinary Partnerships

Limited Partnerships

Companies

Trading Trusts

SEPARATION OF ROLES IN FORESTRY INVESTMENT

Promoters

Investors

Managers

Consultants/ Auditors

Supervisor

LOCATION

SITE CONDITIONS

- Topography
- Soils
- Rainfall
- Travel cost

GROWTH AND YIELD CONSIDERATIONS

G*E

Growth models

Yield prediction.

Optimal rotation lengths

Regime

FOREST MANAGEMENT PLAN: REVENUE AND COSTS

Cashflow Forecast

Projected costs and returns conventionally expressed in current-day real dollars to remove the effects of inflation, changes from FMA now.

Costs

Revenue

Generally, forestry investment projects evaluated on single rotation basis with residual land value at the end of the rotation if land purchased.

The land should be described with characteristics which impact site productivity and operating costs.

Some land currently in commercial forestry is unfit for purpose and the increase in risk coupled with a focus on directors' liability is resulting in such land being retired from prudent commercial use.

High quality forests with good management have less risk than average, while poor-quality forests are extremely risky.

FINANCIAL PERFORMANCE OF A FORESTRY PROJECT

Cash flow projections

Forest cashflows typically include;

Promoters' fees

capital for land,

annual expenses, management, rates, insurance, maintenance, security

periodic expenses, tending, mapping, stand records or measurement events.

Income cashflows normally at the end of the investment as harvesting occurs followed by land sale.

Projected financial performance of a forestry project generally expressed as the internal rate of return (IRR). The IRR of an investment is defined as that discount rate where the discounted costs and revenues sum to zero. It is the maximum projected rate of interest (before inflation) than you could afford to pay on a loan to fund the whole investment and break even. New FMA rules include inflation now!

Provided all costs and returns are expressed in current day dollars, and costs and returns move similarly with inflation, then the rate of return (IRR) is a real rate – i.e. the rate which is expected to be achieved over and above inflation.

IRRs can be expressed pre-tax or post-tax. Pre-tax IRRs are commonly used for comparison purposes. A product disclosure statement should allow an investor to sensitivity test the IRR under differing assumptions. IRRs are sensitive to:

- log prices;
- log yields by grade
- total log volumes; and
- Costs such as harvesting and road construction.

A forestry investment should be well described with mapping and land descriptions, crop or stand records, a forest and land management plan, and detailed cash flow projections.

Professionally managed investments should include annual audit of financial and physical assets as well as comprehensive annual accounts and reporting.

FE Indicative Investment Cashflow

This from an existing MIS, but not intended as advice, just for purpose of this description

Internal Rate of Return (IRR)

The percentage return on a forestry investment is the calculated Internal Rate of Return (IRR). The IRR is the discount rate at which discounted costs equal discounted revenues – i.e. the discount rate at which present value cash flows equal zero. Provided all other factors are equal, the IRR provides a basis to compare forestry investments.

Based on the assumptions set out, assuming 2018 log prices:

Gross IRR based on past 36-month log prices	6.44%
Gross IRR based on June 2018 spot prices	7.61%
Gross IRR based on inflation adjusted 36-month log prices	8.53%

CASHFLOW PROJECTION - Wairarapa Group Forest Investment

[illegible]




What else can
you do in your
investment?

(Catch and release, let him go now boy)



Log price negotiation

A group of men are seated around a large, round, dark wooden table in a restaurant. The table is set with various dishes, including a large bowl of soup, plates of food, and glasses of water. One man in the foreground, wearing a blue shirt, has his head buried in his hands, suggesting a moment of stress or intense negotiation. Other men are looking on, some with serious expressions. The background shows a window with curtains and a red chair.

A photograph of a lumber yard. In the background, there is a massive pile of cut logs stacked in neat rows. In the foreground, a person wearing a light blue long-sleeved shirt, dark pants, and a white headscarf is standing on a dirt ground, holding a long-handled tool, possibly a shovel or a pitchfork. The sky is overcast, and a utility pole with power lines is visible in the distance. The text is overlaid on the right side of the image.

Control of commodity supply and sales.
Local markets are critical for added value, risk reduction.
Have a range of customers, in a range of markets.
Service export customers on ship or at their ports.
You don't need your customers in your supply chain.
Maintain our competency, and information flows
there are worse jobs out there.....

Sun Tzu, All men **can see the tactics** whereby I conquer, but what none **can see is the strategy** ...


-
- Adam Smith,
“People of the same trade seldom meet
together, even for merriment and diversion,
but the conversation ends in a conspiracy
against the public, or in some contrivance to
raise prices.”





Zen and the art of forestry

- First become a better person, then you will be a better forester
- Fed Farmers are a great advocacy group because they have skin in the game
- When farms get into trouble someone loses their house
- How much do you have invested (not much?)
- How much do you care (not enough)
- Invest, you will care more, work harder, become a better person

A scenic view of a mountain valley. The foreground and middle ground are filled with dense evergreen forests covering steep slopes. In the background, rocky mountain peaks are visible under a clear sky. The lighting suggests a bright day, with shadows cast across the forested slopes.

advice for those who haven't invested;
Don't get sick
Don't get old