Radiata Pine for Timber Production and Shelter

This presentation was given at the ‘Forthside’ TIA Vegetable Research Facility Open Day, 12 November 2014 by Arthur Lyons, Manager Services, Private Forests Tasmania, ph 03 677 72716.


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Radiata Pine for Timber Production and Shelter
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- Grow high quality, high value wood
- Shelter for agriculture.
- Earn a profitable return on the investment.
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THE PROJECT
• 1.4 hectares
• Land too steep for cultivation
• 15 plots of 49 trees each (1,143 trees per hectare)
• Planted in 1997.

Trees have been:
• Pruned for clearwood (knot free) timber
• Waste thinned to maximise the volume of wood at harvest.
• Closely monitored.
• Subject to a Farm Forestry Toolbox financial analysis
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Farm Forestry Toolbox Analysis

The Farm Forestry Toolbox is a computer program developed by Private Forests Tasmania.

- Models current and future tree growth, timber values and carbon sequestration.
- Calculates Net Revenue, Net Present Value (NPV) and Internal Rate of Return (IRR)
- Estimates carbon sequestration of trees.

This information helps decide when to harvest trees.
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Figure 6  Financial Results (estimates)

<table>
<thead>
<tr>
<th>Clearfell age (years)</th>
<th>Net Revenue ($/ha)</th>
<th>NPV ($/ha)</th>
<th>IRR (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>20</td>
<td>29,500</td>
<td>7,060</td>
<td>11.3</td>
</tr>
<tr>
<td>25</td>
<td>41,600</td>
<td>8,270</td>
<td>10.4</td>
</tr>
<tr>
<td>30</td>
<td>51,800</td>
<td>7,800</td>
<td>9.3</td>
</tr>
<tr>
<td>35</td>
<td>57,600</td>
<td>6,500</td>
<td>8.2</td>
</tr>
<tr>
<td>40</td>
<td>62,600</td>
<td>5,000</td>
<td>7.3</td>
</tr>
</tbody>
</table>
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Total Carbon stored @ 30 years
= 376 t/ha
or
= 1,379 t/ha CO2 equivalent
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A managed asset

A winner!
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Benefits of Cuttings

Wind damage
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Branch management

Land use
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Keep in mind potential markets for pine logs as well as end products.