Forest Information Management and Decision Support Tools to Improve Forest Planning and Operations

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Forest Information Management Systems

• Why do you need one?
• What are the benefits?
• Is it worth the cost?
Why do you need one?

- Time saver
- Information at your fingertips
- “Remembers” so you don’t have to
- Reporting functions
- Spatial linkages – central system
- Some days you need a little Finesse
- Higher level planning

Garbage in....

The system is only as good as what you put into it and how the team works with it as a group
No one enjoys data entry....

Reporting examples:

- NEFD reporting
- Chemical use reporting
- Budget tracking
- Operations tracking
Operations Tracking

Harvest Ready Query

Harvest Area Yield

<table>
<thead>
<tr>
<th>Forest</th>
<th>Block</th>
<th>Harvest Area</th>
<th>Setting Status</th>
<th>Skid Status</th>
<th>Crew</th>
<th>Planned Work</th>
<th>Harvested Area</th>
<th>Cut Area</th>
<th>Area Harvested</th>
<th>Area Cut</th>
<th>Area Harvested</th>
<th>Area Cut</th>
<th>Yield Date</th>
<th>SHN Pt Size</th>
<th>Product Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>MGA1</td>
<td>018</td>
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<td>Harvest Ready Cutting</td>
<td></td>
<td></td>
<td>5.4</td>
<td>2.6</td>
<td>3.8</td>
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<td>2.6</td>
<td>3.8</td>
<td>0.0</td>
<td>2.6</td>
<td>2.6</td>
<td>1580</td>
</tr>
</tbody>
</table>
Example: Splitting patches within a stand to track an operation and schedule follow up activities.
Forward Planning

Crop Protection

Area 3728

<table>
<thead>
<tr>
<th>Description</th>
<th>Progress</th>
<th>Assessment</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
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</tbody>
</table>

Planned Period

Crop

Crop Protection Method

Product

Units

Active Ingredients

Notes

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www.ernslaw.co.nz
Storing Information for Easy Retrieval

Ability to merge new forests into the existing system; even when information was stored as a spreadsheet.

Example: Resource Consent: status and expiry date & Harvest Planning Details

Harvest Manager
Where to from here?

• ATLAS is willing to work with companies to help make GeoMaster work to meet your needs

• Ways that I think would further enhance the power of a Forest Information System:
  - A roads module
  - A link to the invoicing process to ensure records are updated when invoices are paid and real time tracking of costs