Presentation Outline

- Introduction
- The importance of the Forestry Industry
- The importance of the Forest Products Industry
- Industry Contribution to Employment
- Investment
- Industry Contribution to GDP
- Industry Contribution to Foreign Trade
Section 1
Introduction
Land Use in South Africa

- **Grazing**: 68.6%
- **Arable**: 13.8%
- **Nature Conservation**: 9.6%
- **Other**: 6.9%
- **Forestry**: 1.0%

Total RSA land area – 122.3 million ha

1 268 433 ha
Land Use in Mpumalanga

- Grazing: 21.6%
- Arable: 39.6%
- Nature Conservation: 28.5%
- Other: 3.9%
- Forestry: 6.3%

Total Mpum. land area – 8.2 million ha (6.7% of total)

519,362 ha
Land Use in KwaZulu Natal

- Grazing: 58.3%
- Arable: 12.7%
- Nature Conservation: 15.1%
- Other: 8.5%
- Forestry: 5.5%

Total KZN land area – 9.1 million ha (7.5% of total)

502,691 ha
Land Use in the Eastern Cape

- Grazing: 80.0%
- Arable: 6.8%
- Nature Conservation: 3.7%
- Other: 8.7%
- Forestry: 0.8%

Total E. Cape land area – 17.1 million ha (13.9% of total)
Land Use in the Western Cape

- Grazing: 70.4%
- Arable: 20.0%
- Nature Conservation: 5.6%
- Other: 3.5%
- Forestry: 0.4%

Total W. Cape land area – 12.9 million ha (10.6% of total)
Land Use in Limpopo

<table>
<thead>
<tr>
<th>Use</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Grazing</td>
<td>74.0%</td>
</tr>
<tr>
<td>Arable</td>
<td>14.4%</td>
</tr>
<tr>
<td>Nature Conservation</td>
<td>9.7%</td>
</tr>
<tr>
<td>Other</td>
<td>1.5%</td>
</tr>
<tr>
<td>Forestry</td>
<td>0.4%</td>
</tr>
</tbody>
</table>

Total Limpopo land area – 12.0 million ha (9.8% of total)
Plantation Area as % of Land Area by Province

- Mpumalanga: 6.35%
- KZN: 5.50%
- E.Cape: 0.83%
- W. Cape: 0.43%
- Limpopo: 0.40%

% of Land Area Afforested

0% 1% 2% 3% 4% 5% 6% 7%
Land Use Comparisons

Drop in Forestry Area – 83 000 ha (6.1%)
Plantation Area Comparisons 2012

<table>
<thead>
<tr>
<th>Country</th>
<th>Million Hectares</th>
</tr>
</thead>
<tbody>
<tr>
<td>China</td>
<td>46.670</td>
</tr>
<tr>
<td>India</td>
<td>32.578</td>
</tr>
<tr>
<td>Russia</td>
<td>17.340</td>
</tr>
<tr>
<td>USA</td>
<td>16.238</td>
</tr>
<tr>
<td>Japan</td>
<td>10.682</td>
</tr>
<tr>
<td>Indonesia</td>
<td>9.871</td>
</tr>
<tr>
<td>Brazil</td>
<td>4.982</td>
</tr>
<tr>
<td>Thailand</td>
<td>4.920</td>
</tr>
<tr>
<td>Ukraine</td>
<td>4.425</td>
</tr>
<tr>
<td>Iran</td>
<td>2.284</td>
</tr>
<tr>
<td>RSA</td>
<td>1.268</td>
</tr>
</tbody>
</table>
Section 2
The Forestry Industry
Plantation Area by Species 2012

Total – 1 268 443 ha
Plantation Area by Ownership 2012

- Corporate: 48.3%
- Commercial Farmers: 20.2%
- Corporate (Ex Safcol): 11.3%
- State/ Municipalities: 10.1%
- Small Growers: 6.6%
- SAFCOL: 3.5%

Total – 1,268,443 ha
Plantation Area by Province 2012

- Limpopo: 4.7%
- Mpumalanga: 5.2%
- KZN: 42.3%
- E. Cape: 4.1%
- W. Cape: 43.7%

Total - 1,268,443 ha
Plantation Area by Province and Genera 2012

**Hardwood**

<table>
<thead>
<tr>
<th>Province</th>
<th>Total Hectares</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mpumalanga</td>
<td>307,573</td>
</tr>
<tr>
<td>KZN</td>
<td>362,540</td>
</tr>
<tr>
<td>E.Cape</td>
<td>118,653</td>
</tr>
<tr>
<td>Limpopo</td>
<td>26,979</td>
</tr>
<tr>
<td>W. Cape</td>
<td>53,402</td>
</tr>
</tbody>
</table>

**Softwood**

<table>
<thead>
<tr>
<th>Province</th>
<th>Total Hectares</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mpumalanga</td>
<td>211,789</td>
</tr>
<tr>
<td>KZN</td>
<td>140,151</td>
</tr>
<tr>
<td>E.Cape</td>
<td>23,805</td>
</tr>
<tr>
<td>Limpopo</td>
<td>21,359</td>
</tr>
<tr>
<td>W. Cape</td>
<td>2,192</td>
</tr>
</tbody>
</table>

**Total**

- Total softwood: 646,758 ha
- Total hardwood: 621,684 ha
Planted Area Comparisons by Province & Species 2012

- Pine
  - KZN: 140,151
  - Mpumalanga: 307,573
  - E Cape: 118,653
  - W Cape: 53,402
  - Limpopo: 2,231
- Eucalyptus
  - KZN: 289,756
  - Mpumalanga: 194,122
  - E Cape: 20,946
  - W Cape: 1,867
  - Limpopo: 21,187
- Wattle
  - KZN: 71,647
  - Mpumalanga: 14,901
  - E Cape: 12,231
  - W Cape: 32
  - Limpopo: 72
- Other
  - KZN: 1137
  - Mpumalanga: 628
  - E Cape: 293
  - W Cape: 100
  - Limpopo: 0
Pine Plantation Area by Province 2012

<table>
<thead>
<tr>
<th>Province</th>
<th>Area (% of total)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mpumalanga</td>
<td>8.3%</td>
</tr>
<tr>
<td>KZN</td>
<td>4.2%</td>
</tr>
<tr>
<td>E Cape</td>
<td>18.3%</td>
</tr>
<tr>
<td>W Cape</td>
<td>21.7%</td>
</tr>
<tr>
<td>Limpopo</td>
<td>47.6%</td>
</tr>
</tbody>
</table>

Total – 646 758 ha (51.0% of total)
Eucalyptus Plantation Area by Province 2012

- Mpumalanga: 36.8%
- KZN: 54.9%
- E Cape: 4.0%
- W Cape: 0.4%
- Limpopo: 4.0%

Total – 527 878 ha (41.6% of total)
Wattle Plantation Area by Province 2012

- Mpumalanga: 16.8%
- KZN: 80.6%
- E Cape: 2.5%
- W Cape: 0.0%
- Limpopo: 0.1%

Total – 88 883 ha (7.0% of total)
Other Hardwood Plantation Area by Province 2012

- Mpumalanga: 56.2%
- KZN: 23.1%
- E Cape: 12.8%
- W Cape: 6.0%
- Limpopo: 2.0%

Total – 4 924 ha (0.4% of total)
Plantation Area by Management Objectives 2012

- Pulpwood: 55.7%
- Sawlogs: 37.2%
- Mining Timber: 4.2%
- Poles: 2.2%
- Other: 0.6%

Total – 1,268,443 ha
Softwood Plantation Area by Management Objectives 2012

- Pulpwood: 55.8%
- Sawlogs: 36.1%
- Mining Timber: 4.5%
- Poles: 3.0%
- Other: 0.7%

Total – 646 758 ha
Hardwood Plantation Area by Management Objectives 2012

<table>
<thead>
<tr>
<th>Category</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pulpwood</td>
<td>83.1%</td>
</tr>
<tr>
<td>Sawlogs</td>
<td>2.9%</td>
</tr>
<tr>
<td>Mining Timber</td>
<td>8.6%</td>
</tr>
<tr>
<td>Poles</td>
<td>4.4%</td>
</tr>
<tr>
<td>Other</td>
<td>0.9%</td>
</tr>
</tbody>
</table>

Total area: 621,685 ha
Plantation Area by Province and Ownership 2012

<table>
<thead>
<tr>
<th>Province</th>
<th>Private</th>
<th>Public</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mpumalanga</td>
<td>129 216</td>
<td>31 641</td>
</tr>
<tr>
<td>KZN</td>
<td>114 696</td>
<td>31 641</td>
</tr>
<tr>
<td>E.Cape</td>
<td>114 696</td>
<td>31 641</td>
</tr>
<tr>
<td>Limpopo</td>
<td>114 696</td>
<td>31 641</td>
</tr>
<tr>
<td>W. Cape</td>
<td>114 696</td>
<td>31 641</td>
</tr>
</tbody>
</table>

Total Private – 1 056 776 ha (83.0%)
Total Public – 211 667 ha (17.0%)

Leased Safcol packages included in “Private”
KLF included in “Public”
Percentage Plantation Ownership by Province 2012

Publicly Owned  Privately Owned

Province       | Publicly Owned | Privately Owned |
---------------|----------------|----------------|
Limpopo        | 54%            | 46%            |
Mpumalanga     | 75%            | 25%            |
E.Cape         | 81%            | 19%            |
KZN            | 94%            | 6%             |
W. Cape        | 98%            | 2%             |

Total Private – 1 056 776 ha (83.0%)
Total Public – 211 667 ha (17.0%)
Plantation Area by Species and Ownership
2012

<table>
<thead>
<tr>
<th>Species</th>
<th>Private</th>
<th>Public</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pine</td>
<td>491,746</td>
<td></td>
</tr>
<tr>
<td></td>
<td>155,012</td>
<td></td>
</tr>
<tr>
<td>Eucalyptus</td>
<td>476,141</td>
<td></td>
</tr>
<tr>
<td></td>
<td>51,738</td>
<td></td>
</tr>
<tr>
<td>Wattle</td>
<td>84,809</td>
<td>4,074</td>
</tr>
<tr>
<td></td>
<td>64,809</td>
<td>4,074</td>
</tr>
<tr>
<td>Other Hard.</td>
<td>408,843</td>
<td></td>
</tr>
<tr>
<td></td>
<td>4,080</td>
<td>4,080</td>
</tr>
</tbody>
</table>

Total Private – 1,056,776 ha (83.0%)
Total Public – 211,667 ha (17.0%)
Percentage Plantation Ownership by Species 2012

Publicly Owned
Privately Owned

Species
Pine
Other Hard.
Eucalyptus
Wattle

Total Private – 1,056,776 ha (83.0%)
Total Public – 211,667 ha (17.0%)
Planted Area Comparisons by Province & Product 2012

- **Pulpwood**
  - KZN: 22,192
  - Mpumalanga: 517
  - E Cape: 1,110
  - W Cape: 104,733
  - Limpopo: 2,988
  - Total: 426,124

- **Sawlogs**
  - KZN: 257,907
  - Mpumalanga: 54,726
  - E Cape: 104,733
  - W Cape: 54,726
  - Limpopo: 1,110
  - Total: 517,783

- **Mining Timber**
  - KZN: 44,209
  - Mpumalanga: 1,726
  - E Cape: 4,756
  - W Cape: 4,756
  - Limpopo: 110
  - Total: 55,244

- **Other**
  - KZN: 5,469
  - Mpumalanga: 7,564
  - E Cape: 13,807
  - W Cape: 351
  - Limpopo: 8,267
  - Total: 27,408

Hectares
## Roundwood Production by Product 2012

<table>
<thead>
<tr>
<th>Product</th>
<th>Million m³</th>
<th>Million mt</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pulpwood</td>
<td>12.113</td>
<td>8.1</td>
</tr>
<tr>
<td>Sawlogs</td>
<td>4.486</td>
<td></td>
</tr>
<tr>
<td>Mining Timber</td>
<td>0.815</td>
<td></td>
</tr>
<tr>
<td>Other</td>
<td>0.420</td>
<td></td>
</tr>
<tr>
<td>Poles</td>
<td>0.378</td>
<td></td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>7.8</strong></td>
<td><strong>8.1</strong></td>
</tr>
<tr>
<td></td>
<td><strong>10.4</strong></td>
<td><strong>7.7</strong></td>
</tr>
</tbody>
</table>

**Total – 7.8 million m³ / 8.1mt (softwood)**

**Total – 10.4 million m³ / 7.7mt (hardwood)**
Roundwood Production by Province and Genera 2012

### Million m³

<table>
<thead>
<tr>
<th>Province</th>
<th>Hardwood</th>
<th>Softwood</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>KZN</td>
<td>2.082</td>
<td>2.082</td>
<td>7.662</td>
</tr>
<tr>
<td>Mpumalanga</td>
<td>2.199</td>
<td>1.182</td>
<td>3.791</td>
</tr>
<tr>
<td>E. Cape</td>
<td>0.289</td>
<td>1.182</td>
<td>1.471</td>
</tr>
<tr>
<td>W. Cape</td>
<td>0.004</td>
<td>0.538</td>
<td>0.542</td>
</tr>
<tr>
<td>Limpopo</td>
<td>0.214</td>
<td>0.250</td>
<td>0.464</td>
</tr>
</tbody>
</table>

**Total**
- **7.8 million m³ / 8.1mt (softwood)**
- **10.4 million m³ / 7.7mt (hardwood)**
Roundwood Production by Province and Genera 2012

- **KZN**: 9.744 million m³
  - Softwood: 0.464
  - Hardwood: 9.280

- **Mpumalanga**: 5.989 million m³
  - Softwood: 0.542
  - Hardwood: 5.447

- **E. Cape**: 1.471 million m³
  - Softwood: 1.471
  - Hardwood: 0.000

- **W. Cape**: 0.542 million m³
  - Softwood: 0.542
  - Hardwood: 0.000

- **Limpopo**: 0.464 million m³
  - Softwood: 0.464
  - Hardwood: 0.000

**Total**
- **Softwood**: 7.8 million m³ / 8.1mt
- **Hardwood**: 10.4 million m³ / 7.7mt
Roundwood Production ex Plantations by Province & Product 2012

KZN
- Pulpwood: 8.703
- Sawlogs: 0.285
- Other: 0.229

Mpum
- Pulpwood: 2.969
- Sawlogs: 0.825
- Other: 0.429

E. Cape
- Pulpwood: 2.195
- Sawlogs: 0.804
- Other: 0.239

Limpopo
- Pulpwood: 0.012
- Sawlogs: 0.229
- Other: 0.041

W. Cape
- Pulpwood: 0.000
- Sawlogs: 0.500
- Other: 0.000

Total – 18.2 million m$^3$ or 15.8 million tons
Roundwood Production ex Plantations by Province & Product 2012

KZN: 9.774 million m³
Mpum: 5.989 million m³
E. Cape: 1.471 million m³
W. Cape: 542 thousand m³
Limpopo: 464 thousand m³

Total – 18.2 million m³ or 15.8 million tons
Total Roundwood Production ex Plantations by Province 2012

KZN: 53.5%
Mpumalanga: 32.9%
E. Cape: 8.1%
W. Cape: 3.0%
Limpopo: 2.5%

Total – 18.2 million m³ or 15.8 million tons
Total Roundwood Production ex Plantations by Product 2012

- Pulpwood: 66.5%
- Sawlogs: 24.6%
- Mining Timber: 4.5%
- Poles: 2.1%
- Other: 2.3%

Total – 18.2 million m$^3$ or 15.8 million tons
Softwood Roundwood Production ex Plantations by Product 2012

- Sawlogs: 56.2%
- Pulpwood: 42.2%
- Poles: 0.8% (both for Sawlogs and Pulpwood)
- Other: 0.8%

Total – 7.8 million m³ or 8.1 million tons
Hardwood Roundwood Production ex Plantations by Product 2012

Total – 10.4 million m³ or 7.7 million tons
Total Roundwood Production ex Plantations by Species 2012

- Pine: 50.6%
- Eucalyptus: 43.1%
- Wattle: 6.1%
- Other: 0.3%

Total – 18.2 million m$^3$ or 15.8 million tons
Composition of Roundwood Production by Product 2012

- Sawlogs: 98% Softwood, 2% Hardwood
- Pulpwood: 73% Softwood, 27% Hardwood
- Poles: 84% Hardwood, 16% Softwood
- Other: 85% Hardwood, 15% Softwood
- Mining Timber: 100% Hardwood
Total Plantation Area 1980 to 2012

Total increase in afforested area over period: 107,036 ha
Total % increase in afforested area over period: 9.2%
Total Roundwood Production ex Plantations 1980 to 2012

Total increase in production over period: 53.3%
Total increase in afforested area over period: 9.2%
Roundwood Production vs. Plantation Area 1980 to 2012

- Total increase in production over period: 53.3%
- Total increase in afforested area over period: 9.2%
Average Productivity per Hectare
1980 - 2012

Total increase in productivity over period – 4.1 m³ per ha p.a. (40%)
Production Comparisons

<table>
<thead>
<tr>
<th>Year</th>
<th>Sugar</th>
<th>Maize</th>
<th>Forestry</th>
<th>Wheat</th>
</tr>
</thead>
<tbody>
<tr>
<td>2002</td>
<td>1.924</td>
<td>2.438</td>
<td>14.572</td>
<td>0</td>
</tr>
<tr>
<td>2007</td>
<td>1.913</td>
<td></td>
<td>17.756</td>
<td></td>
</tr>
<tr>
<td>2012</td>
<td>1.913</td>
<td>12.468</td>
<td>15.819</td>
<td>1.924</td>
</tr>
</tbody>
</table>

Million tons
Value of Roundwood Production 2012

- Pulpwood: 69.5%
- Mining Timber: 2.5%
- Other: 3.3%
- Sawlogs: 24.7%

Total – R7.4 billion
Value of Roundwood Production ex Plantations by Product 2012

- Pulpwood: 5.139 billion Rands
- Sawlogs: 1.828 billion Rands
- Other: 0.244 billion Rands
- Mining Timber: 0.183 billion Rands

Total – R7 394 million
Value of Roundwood Production ex Plantations by Province 2012

- KZN: R4,085 million
- Mupumlanga: R2,351 million
- Eastern Cape: R582 million
- Western Cape: R216 million
- Limpopo: R159 million

Total – R7,394 million
Value of Roundwood Production ex Plantations by Province & Product 2012

<table>
<thead>
<tr>
<th>Province</th>
<th>Pulpwood</th>
<th>Sawlogs</th>
<th>Other</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>KZN</td>
<td>308</td>
<td>84</td>
<td>197</td>
<td>3,692</td>
</tr>
<tr>
<td>Mupumlanga</td>
<td>1,260</td>
<td>894</td>
<td>182</td>
<td>2,336</td>
</tr>
<tr>
<td>Eastern CA</td>
<td>328</td>
<td>73</td>
<td>182</td>
<td>583</td>
</tr>
<tr>
<td>Western CA</td>
<td>204</td>
<td>13</td>
<td>5</td>
<td>222</td>
</tr>
<tr>
<td>Limpopo</td>
<td>93</td>
<td>61</td>
<td>0</td>
<td>154</td>
</tr>
</tbody>
</table>

Total – R7 394 million
Value of Roundwood Production ex Plantations by Province & Product 2012

Total – R7 394 million
Value of Roundwood Production
1980 to 2012

Nominal increase over period: R7.2 bn (4389%)
Real increase over period: R4.2 bn (133%)
New Afforestation by Region
1980 to 2012

New afforestation over period - 386 556 ha
Average per year - 11 714 ha
Total New Afforestation by Region
1980 to 2012

- KZN: 58.1%
- Mpumalanga & Limpopo: 41.5%
- E&W Cape: 0.4%

Total – 386,556 ha
Total New Afforestation by Region
10 Yr Period - 2003 to 2012

- KZN: 67.2%
- Mpumalanga & Limpopo: 31.0%
- E&W Cape: 1.8%

Total – 29 062 ha
New Afforestation by Region
10 Year Period – 2002 to 2012

New afforestation over period - 29 062 ha
Average per year - 2 906 ha
New Afforestation by Province 2012

- W. Cape: 0.4%
- KZN: 39.6%
- Limpopo: 1.9%
- Mpumalanga: 58.1%
- E. Cape: 0.0%

Total - 1,046 ha
New Afforestation by Species  
1980 to 2012

Average p.a. 1980 to 1985 - 10 974 ha (17.0% of total) 
Average p.a. 1986 to 1990 - 24 558 ha (31.8% of total) 
Average p.a. 1991 to 1995 - 24 406 ha (31.6% of total)
Total New Afforestation by Species
1980 to 2012

- Pine: 46.7%
- Eucalyptus: 44.0%
- Wattle: 8.3%
- Other: 0.9%

Total – 386 556 ha
New Afforestation by Species 2012

- Eucalyptus: 24.4%
- Wattle: 32.1%
- Pine: 41.9%
- Other Hardwood: 1.6%

Total: 1,046 ha
New Afforestation by Product
1980 to 2012

Average p.a. 1996 to 2000: - 7,019 ha (9.1% of total)
Average p.a. 2001 to 2005: - 5,044 ha (6.5% of total)
Average p.a. 2006 to 2012: - 2,225 ha (4.0% of total)
Total New Afforestation by Product
1980 to 2012

- Pulpwood: 57.7%
- Sawlogs: 22.7%
- Mining Timber: 14.0%
- Other: 5.6%

Total – 386 556 ha
New Afforestation by Product 2012

- Pulpwood: 60.4%
- Sawlogs: 27.7%
- Other: 9.5%
- Poles: 2.0%
- Mng. Timber: 0.4%

Total - 1,046 ha
Area Converted Out of Timber Production by Species 1980 to 2012

Area converted over period: - 90,865 ha
Average p.a.: - 2,753 ha
Area Converted Out of Timber Production by Species 2003 to 2012

Area converted over period: - 18,091 ha
Average p.a.: - 1,809 ha
Total Area Converted out of Timber Production by Species 1980 to 2012

- Pine: 46.1%
- Eucalypts: 27.6%
- Wattle: 23.7%
- Other: 2.6%

Total – 90,865 ha
Total Area Converted out of Timber Production by Species 2012

- Pine: 16.2%
- Eucalypts: 29.0%
- Wattle: 51.0%
- Other Hardwood: 3.7%

Total – 482 ha
Net New Afforestation by Species
1980 to 2012

- Net new afforestation over period: - 295,689 ha
- Average p.a.: - 8,960 ha
Net New Afforestation by Species
2003 to 2012

Net new afforestation over period: -10,969 ha
Average p.a.: -1,097 ha
Net New Afforestation by Species
1980 to 2012

Pine: 46.9%
Eucalypts: 49.1%
Wattle: 3.5%
Other: 0.5%

Total: 295,689 ha
Net New Afforestation by Species 2012

Total net new afforestation - 564 ha
Area Converted Out of Timber Production by Region 1980 to 2012

Area converted over period - 90 868 ha
Average p.a. - 2 754 ha
**Area Converted Out of Timber Production by Region 2003 to 2012**

Area converted over period: - 18,194 ha
Average p.a.: - 1,819 ha
Total Area Converted out of Timber Production by Region 1980 to 2012

- Mpumalanga & Limpopo: 27.9%
- KZN: 42.3%
- W&E Cape: 29.8%

Total – 90,868 ha
Net New Afforestation by Region
1980 to 2012

Net new afforestation over period - 295 689 ha
Average p.a. - 8 960 ha
Net New Afforestation by Region 2003 to 2012

Net new afforestation over period - 10 969 ha
Average p.a. - 1 097 ha
Net New Afforestation by Region
1980 to 2012

- Mpumalanga & Limpopo: 7.0%
- KZN: 58.2%
- W&E Cape: 34.8%

Total – 295,689 ha
Conversion of Plantations out of Production & to Other Species 1980 to 2012

Net loss to production area over period: -90,866 ha
Average p.a.: -2,754 ha
Conversion of Plantations out of Production & to Other Species 2003 to 2012

- Net loss to production area over period: -18,092 ha
- Average p.a.: -1,809 ha
Total Area Converted out of Production & to Other Species 1980 to 2012

Net loss to production area over period: -90,866 ha
Average p.a.: -2,754 ha
Area Converted out of Production & to Other Species 2012

Land taken out of timber production - 482 ha
Net Addition to Planted Area by Species
1980 to 2012

Total net addition to production area: -295,688 ha
Average p.a.: -8,960 ha
Net Addition to Planted Area by Species  
2003 to 2012

- Total net addition to production area: -10,968 ha
- Average p.a.: -1,097 ha
Total Net Addition to Planted Area by Species 1980 to 2012

- Pine: 104,663 hectares
- Eucalyptus: 208,700 hectares
- Wattle: -24,273 hectares
- Other: 6,598 hectares

Total net addition to production area: -295,688 hectares
Average p.a.: -8,960 hectares
Net Addition (Loss) to Planted Area by Species 2012

Pine: -4,508 hectares
Eucalyptus: 7,479 hectares
Wattle: -2,369 hectares
Other: -38 hectares

Total net gain in production area: Plus 564 ha
Damage to Plantations by Genera
1980 to 2012

Total area damaged over period: 1,012,123 ha
Average p.a.: 30,670 ha
Damage to Plantations by Fires
1980 to 2012

- Total area damaged over period: 1 012 123 ha
- Total area damaged by fire: 589 327 ha (58%)
- Total area damaged by other causes: 422 79 ha (42%)
Damage to Plantations by Fires 2003 to 2012

- Total area damaged over period: 447,745 ha
- Total area damaged by fire: 310,722 ha (69%)
- Total area damaged by other causes: 137,023 ha (31%)
Damage to Plantations by Fires 1980 to 2012

Years:
- 1980
- 1983
- 1986
- 1989
- 1992
- 1995
- 1998
- 2001
- 2004
- 2007
- 2010

Legend:
- Fire
- Other Causes
Damage to Plantations by Genera 2012

Softwood: 42.4%
Hardwood: 57.6%

Total – 18,115 ha (1.4% of total planted area)
Damage to Plantations by Cause 2012

53.0% Fire
47.0% Other Causes

Total – 18 115 ha
Damage to Plantations by Fire 2012

- **Arson**: 39.3%
- **Accidental**: 23.8%
- **Natural**: 26.7%
- **Unknown**: 10.3%

Total: 9,599 ha
RSA FMU certificates cover 1.5 million hectares or 21% of African total coverage of 7.2 million hectares
FSC Certified Forests by Ownership: as at October 2014

- Private Cos: 54.6%
- Private Cos (ex SAFCOL): 16.2%
- SAFCOL (KLF): 12.4%
- Individuals / Group: 16.8%

Certified Area – 1 507 710 ha
(incl. planted & non-planted areas)
Section 3
The Forest Products Industry
Number of Processing Plants by Type 2012

- Sawmills: 76
- Pole Plants: 29
- Pulp, Paper & Board Mills: 17
- Mining Timber Mills: 14
- Charcoal Plants: 4
- Match Factories: 1

Total number of plants: 141
Intake of Roundwood into Processing Plants
1980 to 2012

Total increase in intake over period: -7.7 million m³ (69%)
Biggest increase that of pulpwood: -9.4 million m³ (223%)
### Intake of Roundwood into Processing Plants 2012

<table>
<thead>
<tr>
<th>Category</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pulp, Paper &amp; Board Mills</td>
<td>72.6%</td>
</tr>
<tr>
<td>Sawmills</td>
<td>19.6%</td>
</tr>
<tr>
<td>Mng. Timber Mills</td>
<td>4.1%</td>
</tr>
<tr>
<td>Other</td>
<td>3.7%</td>
</tr>
</tbody>
</table>

**Total** – 18.8 million m³
Roundwood Intake into Processing Plants by Province & Product 2012

Total – 18.8 million m³
Roundwood Intake into Processing Plants by Province & Product 2012

Total – 18.8 million m$^3$
Average Size of Plant by Intake
1980 vs. 2012

Overall average intake has increased by: - 189%
Average intake of PP & Board Mills has increased by: - 128%
Only average intake of MT Mills has declined – by - 24%
Sales of Certain Products from Processing Plants 1980 to 2012

- Pulp (t)
- Lumber (m3)
- Mng. Timber (t)
- Chips (t)

Biggest increase that of chips: - 1.9 million tons (350%)
Biggest decrease that of mining timber: - 1.3 million tons (-77%)
Value of Sales from Primary Processing Plants 2012

- Pulp: 55.7%
- Chips: 7.8%
- Lumber: 19.8%
- Panels: 10.6%
- Mng. Timber: 1.7%
- Other: 4.5%

Total – R20.7 billion
Value of Sales from Primary Processing Plants 2012

- **Pulp**: 11.505 billion Rand
- **Lumber**: 4.085 billion Rand
- **Woodchips**: 1.605 billion Rand
- **Panels**: 2.189 billion Rand
- **Other Products**: 0.926 billion Rand
- **Mining Timber**: 0.343 billion Rand

Total – R20.7 billion
Value of Sales from Primary Processing Plants 1980 to 2012

Nominal increase over period - R20.0 bn (2862%)
Real increase over period - R7.2 bn (54%)
Value of Roundwood Sales from Processing Plants by Product & Province 2012

Total – R20.7 billion
Value of Roundwood Sales from Processing Plants by Product & Province 2012

Total – R20.7 billion

<table>
<thead>
<tr>
<th></th>
<th>2002</th>
<th>2007</th>
<th>2012</th>
</tr>
</thead>
<tbody>
<tr>
<td>For. Prods.</td>
<td>2.417</td>
<td>3.910</td>
<td>4.072</td>
</tr>
<tr>
<td>Sugar</td>
<td>4.081</td>
<td>3.673</td>
<td>7.585</td>
</tr>
<tr>
<td>Wheat</td>
<td>7.847</td>
<td>8.686</td>
<td>10.836</td>
</tr>
<tr>
<td>Maize</td>
<td>5.831</td>
<td>7.804</td>
<td>10.836</td>
</tr>
<tr>
<td>Forestry</td>
<td>2.417</td>
<td>4.081</td>
<td>5.831</td>
</tr>
</tbody>
</table>

Thousand Rand per Hectare
Value Addition in Primary Processing Industry 2012

[Bar chart showing value addition for different sectors: Charcoal Plants, Pole Plants, Sawmills, Pulp / Paper Mills, Total Industry.]

- Charcoal Plants: Input 28, Output 93
- Pole Plants: Input 204, Output 528
- Sawmills: Input 183, Output 343
- Pulp / Paper Mills: Input 5,139, Output 15,224
- Total Industry: Input 7,394, Output 20,652

Note: excludes secondary processing (e.g. paper manufacturing)
Value Addition Comparisons in Primary Processing Industry 2012

Note: Based only on input value of raw fibre (i.e. excludes all other input costs)
Section 4
Contribution to Employment
## Forest Sector Employment – RSA 2012

<table>
<thead>
<tr>
<th>Sub-sector</th>
<th>No. of employees</th>
<th>Total Employment</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Direct</td>
<td>Indirect</td>
</tr>
<tr>
<td>Forestry</td>
<td>62,100</td>
<td>30,000</td>
</tr>
<tr>
<td>Pulp and Paper</td>
<td>13,200</td>
<td>10,800</td>
</tr>
<tr>
<td>Sawmilling</td>
<td>20,000</td>
<td>10,000</td>
</tr>
<tr>
<td>Timber Board</td>
<td>6,000</td>
<td>n/a</td>
</tr>
<tr>
<td>Mining Timber</td>
<td>2,200</td>
<td>n/a</td>
</tr>
<tr>
<td>Other</td>
<td>11,000</td>
<td>n/a</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>114,500</strong></td>
<td><strong>50,800</strong></td>
</tr>
</tbody>
</table>

Direct jobs in Forestry = 62,100
Indirect jobs in Forestry (165,300 less 62,100) = 103,200
Direct Employment in Forestry Industry by Province 2012

Total – 62 100

- KZN: 46.2%
- Mpumalanga: 38.1%
- E Cape: 8.9%
- W Cape: 3.2%
- Limpopo: 3.5%
Direct Employment in Forestry Industry by Region 2012

KZN: 28,730
Mpumalanga: 23,680
E. Cape: 5,560
Limpopo: 2,200
W. Cape: 1,960

Total estimated direct jobs in Industry – 62,100
Direct Employment in Forestry Industry as % of Those Employed in 2012

- Mpumalanga: 2.4%
- KZN: 1.1%
- RSA: 0.5%
- E. Cape: 0.4%
- Limpopo: 0.2%
- W. Cape: 0.1%

% of Total Employed in Formal Sector

Total employed in RSA – 13 721 000
Indirect Employment in Forestry Industry by Province 2012

KZN: 46,300
Mpumalanga: 36,090
E. Cape: 11,120
Limpopo: 4,840
W. Cape: 4,830

Total estimated indirect jobs created by Industry – 103,200

Total Employment:
- KZN: 2,533,000
- Mpumalanga: 1,002,000
- E. Cape: 1,321,000
- Limpopo: 1,071,000
- W. Cape: 1,810,000
Indirect Employment in Forestry Industry as % of Those Employed in 2012

- Mpumalanga: 3.6%
- KZN: 1.8%
- E. Cape: 0.8%
- RSA: 0.8%
- Limpopo: 0.5%
- W. Cape: 0.3%

Total employed in Mpumalanga – 1 002 000
### Direct & Indirect Jobs in Forestry Industry by Province 2012

**Estimated total – 165,900 jobs**

<table>
<thead>
<tr>
<th>Province</th>
<th>Direct jobs</th>
<th>Indirect jobs</th>
<th>Total Employment</th>
</tr>
</thead>
<tbody>
<tr>
<td>KZN</td>
<td>16,680</td>
<td>75,030</td>
<td>2,533,000</td>
</tr>
<tr>
<td>Mpumalanga</td>
<td>16,680</td>
<td>59,770</td>
<td>1,002,000</td>
</tr>
<tr>
<td>E. Cape</td>
<td>7,040</td>
<td>13,210</td>
<td>1,071,000</td>
</tr>
<tr>
<td>Limpopo</td>
<td>6,790</td>
<td>18,100</td>
<td>1,810,000</td>
</tr>
</tbody>
</table>

**Total Estimated Employment:**
- Total: 165,900 jobs
- Direct: 42,430 jobs
- Indirect: 123,470 jobs
Total Employment in Industry as % of Those Employed in Formal Sector 2012

<table>
<thead>
<tr>
<th>Province</th>
<th>Direct</th>
<th>Indirect</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mpumalanga</td>
<td></td>
<td>6.0%</td>
</tr>
<tr>
<td>KZN</td>
<td>1.3%</td>
<td></td>
</tr>
<tr>
<td>E. Cape</td>
<td>1.2%</td>
<td></td>
</tr>
<tr>
<td>RSA</td>
<td>0.7%</td>
<td></td>
</tr>
<tr>
<td>Limpopo</td>
<td>0.4%</td>
<td></td>
</tr>
<tr>
<td>W. Cape</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

% of Total Employed in Formal Sector
Dependents of Those Working in Forestry Industry by Province 2012

KZN
- Direct job dependents: 100,000
- Indirect job dependents: 254,000
- Total: 354,000

Mpumalanga
- Direct job dependents: 100,000
- Indirect job dependents: 203,000
- Total: 303,000

E. Cape
- Direct job dependents: 50,000
- Indirect job dependents: 50,000
- Total: 100,000

Limpopo
- Direct job dependents: 23,000
- Indirect job dependents: 23,000
- Total: 46,000

W. Cape
- Direct job dependents: 20,000
- Indirect job dependents: 20,000
- Total: 40,000

Estimated total – 551,000 dependents
Total Number of People Dependent on Forestry Industry by Province 2012

- **KZN**: 329,000
- **Mpumalanga**: 263,000
- **E. Cape**: 67,000
- **Limpopo**: 30,000
- **W. Cape**: 27,000

Estimated total – 716,000 livelihoods
Estimated % of Population Dependent on Forestry Industry 2012

<table>
<thead>
<tr>
<th>Province</th>
<th>% of Provincial Population</th>
<th>Population</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mpumalanga</td>
<td>6.37%</td>
<td>4 128 000</td>
</tr>
<tr>
<td>KZN</td>
<td>3.14%</td>
<td>10 457 000</td>
</tr>
<tr>
<td>RSA</td>
<td>1.35%</td>
<td>52 982 000</td>
</tr>
<tr>
<td>E. Cape</td>
<td>1.01%</td>
<td>6 620 000</td>
</tr>
<tr>
<td>Limpopo</td>
<td>0.55%</td>
<td>5 518 000</td>
</tr>
<tr>
<td>W. Cape</td>
<td>0.45%</td>
<td>6 017 000</td>
</tr>
</tbody>
</table>

Total RSA population – 53.0 million
Section 5
Investment in Sector
Investment in RSA Forestry Industry 2012

Trees: 56.7%
Land: 22.8%
Roads: 12.3%
Fixed Assets: 5.6%
Moveable Assets: 2.5%

Total Investment - R28.8 Billion
Investment in RSA Forestry Industry 2012

Total Investment - R28.8 Billion
Investment in RSA Forestry Industry 2012

Total Investment - R28.8 Billion
Investment in Plantations – By Province 2012

Mpumalanga has highest investment - 42% of total
Investment in Mpumalanga Forestry 2012

- Pine Long: 47.9%
- Gum Short: 28.3%
- Pine Short: 20.1%
- Wattle: 2.3%
- Gum Long: 1.4%

Total Investment - R12.1 Billion
**Investment in KZN Forestry 2012**

- Pine Long: 51.5%
- Gum Short: 16.6%
- Pine Short: 12.9%
- Wattle: 18.9%
- Gum Long: 0.1%

Total Investment: **R10.2 Billion**
Investment in E. Cape Forestry 2012

Total Investment - R3.7 Billion
Investment in W. Cape Forestry 2012

Total Investment - R1.6 Billion
Investment in Limpopo Forestry 2012

- Pine Long: 63.5%
- Gum Short: 16.8%
- Pine Short: 19.5%
- Wattle: 0.2%
- Gum Long: 0.1%

Total Investment - R1.2 Billion
Investment in Forest Products Sector by Type of Processing Plant 2012

- Pulp & Board: 86.6%
- Sawmills & Veneer: 9.3%
- Other: 3.0%
- Pole Plants: 0.9%
- Mng. Timber: 0.2%

Total Book Value of Investments - R20.3 Billion
Investment in Forest Products Sector by Investment Category 2012

- Machinery & Equipment: 84.0%
- Land & Buildings: 13.1%
- Moveable Assets: 1.3%
- Other: 1.6%

Total Book Value of Investments - R20.3 Billion
Section 6
Contribution to GDP
Composition of RSA GDP 2012

<table>
<thead>
<tr>
<th>Segment</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Agric</td>
<td>44.1%</td>
</tr>
<tr>
<td>Mining</td>
<td>2.2%</td>
</tr>
<tr>
<td>Manufacturing</td>
<td>19.1%</td>
</tr>
<tr>
<td>Finance</td>
<td>11.5%</td>
</tr>
<tr>
<td>Other Secondary</td>
<td>14.3%</td>
</tr>
<tr>
<td>Other Tertiary</td>
<td>8.8%</td>
</tr>
</tbody>
</table>

Total GDP – R2 918 Billion (i.e. R2.9 Trillion)
Contribution to GDP 1980 to 2012

- Increase in Forestry to Ag GDP over period from 4.5% to 10.4%
- Decrease in For. Prod. To Mfg GDP over period from 6.3% to 6.1%
Forestry vs. Other Agricultural GGP per Region 2012

Forestry in Mpumalanga of major importance
Forest Products vs. Other Manufacturing
GGP per Region 2012

Province

<table>
<thead>
<tr>
<th>Province</th>
<th>Forest Products</th>
<th>Other Manufacturing</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mpum</td>
<td>19.2%</td>
<td></td>
</tr>
<tr>
<td>KZN</td>
<td>18.8%</td>
<td></td>
</tr>
<tr>
<td>Limpopo</td>
<td>15.2%</td>
<td></td>
</tr>
<tr>
<td>E. Cape</td>
<td>4.6%</td>
<td></td>
</tr>
<tr>
<td>W. Cape</td>
<td>1.0%</td>
<td></td>
</tr>
<tr>
<td>RSA</td>
<td>11.7%</td>
<td></td>
</tr>
</tbody>
</table>
Gross Value of Output by Sector & Province 2012

Million Rands

- **KZN**: 13,606
- **Mupumlanga**: 4,543
- **Eastern Cape**: 1,225
- **Limpopo**: 773
- **Western Cape**: 506

- **Forest Products**
- **Forestry**
Gross Value of Output by Sector & Province 2012

- **KZN**: 17,691 million Rands
  - Forestry: 3,000
  - Forest Products: 14,691
- **Mupumlanga**: 6,894 million Rands
  - Forestry: 1,000
  - Forest Products: 5,894
- **Eastern Cape**: 1,807 million Rands
  - Forestry: 1,000
  - Forest Products: 807
- **Limpopo**: 932 million Rands
  - Forestry: 932
  - Forest Products: 0
- **Western Cape**: 722 million Rands
  - Forestry: 722
  - Forest Products: 0

### Million Rands

0  3,000  6,000  9,000  12,000  15,000  18,000  21,000
Forest Industry Contribution to Total GGP per Region - 2012

<table>
<thead>
<tr>
<th>Region</th>
<th>Forest Products</th>
<th>Forestry</th>
</tr>
</thead>
<tbody>
<tr>
<td>KZN</td>
<td>2.97%</td>
<td>0.89%</td>
</tr>
<tr>
<td>Mpumalanga</td>
<td>2.21%</td>
<td>1.14%</td>
</tr>
<tr>
<td>Average</td>
<td>1.37%</td>
<td>0.49%</td>
</tr>
<tr>
<td>Limpopo</td>
<td>0.56%</td>
<td>0.27%</td>
</tr>
<tr>
<td>Eastern Cape</td>
<td>0.37%</td>
<td>0.08%</td>
</tr>
<tr>
<td>Western Cape</td>
<td>0.12%</td>
<td>0.05%</td>
</tr>
</tbody>
</table>

% of Regional GGP
Forest Industry Contribution to Total GGP per Region - 2012

Contribution of Forestry to GGP in W. Cape continues to decline
Section 7
Contribution to Foreign Trade
Exports of Forest Products 2013 vs. 2012

Solid Wood & Other
- 2013: R5.138bn
- 2012: R4.707bn

Paper
- 2013: R7.054bn
- 2012: R5.890bn

Pulp
- 2013: R6.899bn
- 2012: R5.890bn

Exports in 2013 R5.3bn or 38% up on 2012
Imports of Forest Products
2013 vs. 2012

- **Solid Wood & Other**
  - 2013: R3.3bn
  - 2012: R11.6bn
  - Increase of 28.3%

- **Pulp**
  - 2013: 0.889bn
  - 2012: 0.479bn

- **Paper**
  - 2013: 10.214bn
  - 2012: 8.403bn

Imports in 2013 R3.3 bn or 28.3% up on 2012
Imports vs. Exports of Forest Products
Trade Balance 2013 vs. 2012

Trade balance in 2013 R2.0bn or 89% more than in 2012
Imports vs. Exports of Forest Products
Trade Balance 2011, 2012 & 2013

Trade balance in 2013  R2.0bn or 89% more than in 2012
Imports vs. Exports of Forest Products

2013

Positive trade balance in 2013 = R4.182 billion

Exports R19.1bn
Imports R14.9bn
Forest Product Exports
2013

Pulp: 36.1%
Paper: 36.9%
Solid Wood: 22.7%
Other: 4.2%

Total – R19.1 billion
Forest Product Imports 2013

- Pulp: 0.1%
- Paper: 68.5%
- Solid Wood: 25.4%
- Other: 6.0%

Total – R14.9 billion
Trade Balance in Forest Products
1992 to 2013 (nominal)

Increase in imports - R13.5 billion (953%)
Increase in exports - R16.8 billion (716%)
Increase in trade balance - R3.3 billion (353%)
Trade Balance in Forest Products
1992 to 2013 (real)

- Increase in imports: - R9.6 billion (180%)
- Increase in exports: - R10.3 billion (117%)
- Increase in trade balance: - R0.7 billion (21%)
Export Comparisons
2003, 2008 & 2013

- **Coal**
  - 2013: 57.0
  - 2008: 38.9
  - 2003: 13.6

- **Fruit & Veg**
  - 2013: 27.3
  - 2008: 13.4
  - 2003: 7.0

- **Forest Prods**
  - 2013: 19.1
  - 2008: 14.8
  - 2003: 9.9

- **Sugar**
  - 2013: 5.3
  - 2008: 2.0
  - 2003: 0.8

*Billions Rand*