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

Total RSA land area
122.3 million ha

- Grazing: 68.6%
- Arable: 9.6%
- Nature Conservation: 13.9%
- Other: 6.9%
- Forestry: 1.0%
Land Use in Mpumalanga

- Grazing: 39.6%
- Arable: 28.5%
- Nature Conservation: 21.9%
- Other: 3.9%
- Forestry: 6.0%

Total MP land area: 8.2 million ha (6.0% of total)

494 004 ha
Land Use in KwaZulu Natal

Total KZN land area 9.1 million ha (5.3% of total)

Grazing 58.3%
Arable 15.1%
Nature Conservation 12.9%
Other 8.5%
Forestry 5.3%

484 296 ha
Land Use in the Eastern Cape

- **Grazing**: 80.0% (141,812 ha)
- **Arable**: 3.7%
- **Nature Conservation**: 6.8%
- **Other**: 8.7%
- **Forestry**: 0.8%

Total E. Cape land area: 17.1 million ha (0.7% of total)
Land Use in the Western Cape

- Grazing: 70.3%
- Arable: 20.2%
- Nature Conservation: 5.6%
- Other: 3.5%
- Forestry: 0.3%

Total W. Cape land area: 12.9 million ha (0.3% of total)

Forestry South Africa
Land Use in Limpopo

- **Grazing**: 74.0%
- **Arable**: 14.4%
- **Nature Conservation**: 9.7%
- **Other**: 1.5%
- **Forestry**: 0.4%

Total Limpopo land area:
- **12.0 million ha**
- (0.4% of total)

**Forestry South Africa**
Plantation area as % of land area by province

- **Mpumalanga**: 6.00%
- **KZN**: 5.30%
- **E.Cape**: 0.83%
- **Limpopo**: 0.41%
- **W. Cape**: 0.33%
Land Use Comparisons: 2007, 2012 & 2017

Drop in forestry area: 54 000 ha (-4.3%)
Plantation Area Comparisons 2016

<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>Iran</td>
<td>10.682</td>
</tr>
<tr>
<td>Ukraine</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>1.221</td>
</tr>
</tbody>
</table>
Plantation Area by Species 2017

Pine 49.6%
Eucalyptus 43.0%
Wattle 7.0%
Other 0.4%

Total – 1 212 383 ha
Plantation Area by Ownership 2017

<table>
<thead>
<tr>
<th>Ownership</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Corporate</td>
<td>50.5%</td>
</tr>
<tr>
<td>Commercial Farmers</td>
<td>16.1%</td>
</tr>
<tr>
<td>Corporate (Ex Safcol)</td>
<td>11.8%</td>
</tr>
<tr>
<td>SAFCOL</td>
<td>10.5%</td>
</tr>
<tr>
<td>State/ Municipalities</td>
<td>7.3%</td>
</tr>
<tr>
<td>Small Growers</td>
<td>3.7%</td>
</tr>
</tbody>
</table>

Total – 1 212 6 ha
Plantation Area by Province 2017

- Limpopo: 3.6%
- Mpumalanga: 4.1%
- KZN: 39.9%
- E. Cape: 11.7%
- W. Cape: 40.7%

Total – 1 212 383 ha
Total – 601 176 ha (softwood); Total – 611 209 ha (hardwood)
Total – 601 176 ha (softwood); Total – 611 209 ha (hardwood)
### Pine Plantation Area by Province 2017

<table>
<thead>
<tr>
<th>Province</th>
<th>Area (ha)</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mpumalanga</td>
<td>601,176</td>
<td>50.2%</td>
</tr>
<tr>
<td>KZN</td>
<td>115,383</td>
<td>19.6%</td>
</tr>
<tr>
<td>E Cape</td>
<td>111,980</td>
<td>18.4%</td>
</tr>
<tr>
<td>W Cape</td>
<td>36,701</td>
<td>6.9%</td>
</tr>
<tr>
<td>Limpopo</td>
<td>26,832</td>
<td>4.8%</td>
</tr>
</tbody>
</table>

**Total**

601,176 ha (49.6% of total)
Eucalyptus Plantation Area by Province 2017

- Mpumalanga: 34.0%
- KZN: 57.8%
- E Cape: 4.2%
- W Cape: 0.2%
- Limpopo: 3.8%

Total: 521,718 ha (43.0% of total)
Wattle Plantation Area by Province 2017

- Mpumalanga: 14.1%
- KZN: 83.6%
- E Cape: 2.2%
- W Cape: 0.1%
- Limpopo: 0.0%

Total: 85 079 ha
(7.0% of total)
Other Hardwood Plantation Area by Province 2017

- Mpumalanga: 58.7% (4,410 ha, 0.4% of total)
- KZN: 24.1%
- E Cape: 11.4%
- W Cape: 3.6%
- Limpopo: 2.2%
Plantation Area by Management Objectives 2017

Total – 1,212,383ha

- Pulpwood: 56.6%
- Sawlogs: 37.7%
- Mining Timber: 2.3%
- Poles: 2.6%
- Other: 0.8%
Softwood Plantation Area by Management Objectives 2017

- Pulpwood: 24.9%
- Poles: 0.0%
- Sawlogs: 74.6%
- Other: 0.4%

Total – 601,176 ha
Hardwood Plantation Area by Management Objectives 2017

- Pulpwood: 87.8%
- Sawlogs: 1.4%
- Mining Timber: 4.5%
- Poles: 5.2%
- Other: 1.2%

Total – 611,207 ha
Plantation Area by Province and Ownership 2017

Leased Safcol packages included in “Private”
KLF included in “Public”

Total Private – 996 726 ha (82.2%)
Total Public – 215 657 ha (17.8%)
Percentage Plantation Ownership by Province 2017

<table>
<thead>
<tr>
<th>Province</th>
<th>Publicly Owned</th>
<th>Privately Owned</th>
</tr>
</thead>
<tbody>
<tr>
<td>Limpopo</td>
<td>51%</td>
<td>49%</td>
</tr>
<tr>
<td>Mpumalanga</td>
<td>49%</td>
<td>51%</td>
</tr>
<tr>
<td>E.Cape</td>
<td>19%</td>
<td>81%</td>
</tr>
<tr>
<td>KZN</td>
<td>6%</td>
<td>94%</td>
</tr>
<tr>
<td>W. Cape</td>
<td>1%</td>
<td>99%</td>
</tr>
</tbody>
</table>

Total Private – 996 726 ha (82.2%)
Total Public – 215 657 ha (17.8%)
Plantation Area by Species and Ownership 2017

<table>
<thead>
<tr>
<th>Species</th>
<th>Hectares (Public)</th>
<th>Hectares (Private)</th>
<th>Total Private</th>
<th>Total Public</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pine</td>
<td>159 550</td>
<td>441 627</td>
<td>996 726 ha (82.2%)</td>
<td>215 657 ha (17.8%)</td>
</tr>
<tr>
<td>Other Hard.</td>
<td>3 584</td>
<td>826</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Eucalyptus</td>
<td>50 812</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Wattle</td>
<td>80 609</td>
<td>4 469</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Total Private – 996 726 ha (82.2%)
Total Public – 215 657 ha (17.8%)
Percentage Plantation Ownership by Species 2017

- **Pine**: 73%
- **Other Hard.**: 81%
- **Eucalyptus**: 90%
- **Wattle**: 95%

**Total Private** – 996,726 ha (82.2%)
**Total Public** – 215,657 ha (17.8%)
Planted Area Comparisons by Province & Product 2017

- **KZN**
- **Mpumalanga**
- **E Cape**
- **W Cape**
- **Limpopo**

**Hectares**

- **Pulpwood**
  - KZN: 410,978
  - Mpumalanga: 251,588
  - E Cape: 107,719
- **Sawlogs**
  - KZN: 30,665
  - Mpumalanga: 64,391
- **Mining Timber**
  - KZN: 1,982
  - Mpumalanga: 23,218
- **Other**
  - KZN: 6,944
  - Mpumalanga: 7,551
  - E Cape: 591
  - W Cape: 13,934

*FORESTRY SOUTH AFRICA*
Roundwood Production by Product 2017

- **Pulpwood**: 12.464 million m³
- **Sawlogs**: 4.702 million m³
- **Mining Timber**: 0.421 million m³
- **Other**: 0.375 million m³
- **Poles**: 0.370 million m³

Total - 6.8 million m³ / 7.1 mt (softwood)
Total - 11.5 million m³ / 8.5 mt (hardwood)
Roundwood Production by Province and Genera 2017

- **KZN**: 1.628 Million m3 (Hardwood) / 3.017 Million m3 (Softwood)
- **Mpumalanga**: 1.661 Million m3 (Hardwood) / 3.028 Million m3 (Softwood)
- **E. Cape**: 0.246 Million m3 (Hardwood) / 1.661 Million m3 (Softwood)
- **Limpopo**: 0.259 Million m3 (Hardwood) / 0.282 Million m3 (Softwood)
- **W. Cape**: 0.000 Million m3 (Hardwood) / 0.248 Million m3 (Softwood)

**Total**:
- **Hardwood**: 6.8 million m3 / 7.1 mt
- **Softwood**: 11.5 million m3 / 8.5 mt
Roundwood Production by Province and Genera 2017

Total – 6.8 million m³ / 7.1 mt (softwood)
Total – 11.5 million m³ / 8.5 mt (hardwood)
Roundwood Production ex Plantations by Province & Product 2017

- **KZN**: 8.267 million m³
  - Pulpwood: 1.029 million m³
  - Sawlogs: 0.295 million m³
  - Other: 0.459 million m³

- **Mpum**: 3.736 million m³
  - Pulpwood: 1.851 million m³
  - Sawlogs: 0.459 million m³
  - Other: 0.455 million m³

- **E. Cape**: 1.320 million m³
  - Pulpwood: 0.455 million m³
  - Sawlogs: 0.133 million m³
  - Other: 0.007 million m³

- **Limpopo**: 0.261 million m³
  - Pulpwood: 0.273 million m³
  - Sawlogs: 0.007 million m³
  - Other: 0.000 million m³

- **W. Cape**: 0.019 million m³
  - Pulpwood: 0.000 million m³
  - Sawlogs: 0.230 million m³
  - Other: 0.000 million m³

Total – 18.3 million m³ or 15.7 million tons
Roundwood Production ex Plantations by Province & Product 2017

- KZN: 9.590 Million m³
- Limpopo: 0.541 Million m³
- E. Cape: 1.908 Million m³
- W. Cape: 0.248 Million m³
- Total: 18.3 million m³ or 15.7 million tons

Other
Sawlogs
Pulpwood

Million m³
Total Roundwood Production ex Plantations by Province 2017

- KZN: 52.3%
-Mpumalanga: 33.0%
- E. Cape: 10.4%
-Limpopo: 3.0%
-W. Cape: 1.4%

Total – 18.3 million m³ or 15.7 million tons
Total Roundwood Production ex Plantations by Product 2017

Pulpwood: 68.0%
Sawlogs: 25.7%
Mining Timber: 2.3%
Poles: 2.0%
Other: 2.0%

Total – 18.3 million m³ or 15.7 million tons
Hardwood Plantation Area by Management Objectives 2017

Total – 611 207 ha
Softwood Roundwood Production ex Plantations by Product 2017

- **Sawlogs**: 68.1%
- **Pulpwood**: 29.8%
- **Poles**: 1.2%
- **Other**: 0.9%

Total: 68.1% Sawlogs, 29.8% Pulpwood, 1.2% Poles, 0.9% Other

Total – 6.8 million m³ or 7.1 million tons
Hardwood Roundwood Production ex Plantations by Product 2017

- **Pulpwood**: 90.7%
- **Mining Timber**: 3.7%
- **Poles**: 2.7%
- **Sawlogs**: 0.4%
- **Other**: 2.5%

Total – 11.5 million m³ or 8.5 million tons
Total Roundwood Production ex Plantations by Species 2017

- Pine: 54.8%
- Eucalyptus: 37.3%
- Wattle: 7.6%
- Other: 0.3%

Total – 18.3 million m³ or 15.7 million tons
Composition of Roundwood Production by Product 2017

Sawlogs: 99% Softwood, 1% Hardwood
Pulpwood: 16% Softwood, 84% Hardwood
Other: 23% Softwood, 77% Hardwood
Poles: 16% Softwood, 84% Hardwood
Mining Timber: 0% Softwood, 100% Hardwood

Overall: Softwood = 37% & Hardwood = 63%
Total Plantation Area 1980 to 2017

Hectares

Years

Total increase in planted area over period
50 976 ha (4.4%)

305 755 ha decrease = -20.1%
Total Roundwood Production ex Plantations
1980 to 2017

Total increase in production over period: 54.3%
Total increase in afforested area over period: 4.4%
Index of Roundwood Production vs. Plantation Area 1980 to 2017

Total increase in production over period: 54.3%
Total increase in afforested area over period: 4.4%
Average Productivity per Hectare
1980 - 2017

Total increase in productivity over period: 4.9 m³ per ha p.a. (48%)
Production Comparisons 2007, 2012 & 2017

<table>
<thead>
<tr>
<th></th>
<th>2017</th>
<th>2012</th>
<th>2007</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wheat</td>
<td>1.532</td>
<td>1.878</td>
<td>1.913</td>
</tr>
<tr>
<td>Maize</td>
<td>7.339</td>
<td>12.759</td>
<td>17.756</td>
</tr>
<tr>
<td>Sugar</td>
<td>15.074</td>
<td>16.800</td>
<td>20.278</td>
</tr>
<tr>
<td>Forestry</td>
<td>15.666</td>
<td>15.819</td>
<td>17.756</td>
</tr>
</tbody>
</table>

Million tons
Value of Roundwood Production 2017

- Pulpwood: 68.6%
- Mining Timber: 2.2%
- Other: 3.7%
- Sawlogs: 25.6%

Total: R10.1 billion
(R1.1bn more than 2016)
Value of Roundwood Production ex Plantations by Product 2017

- **Pulpwood**: 6.930 Billion Rands
- **Sawlogs**: 2.583 Billion Rands
- **Poles**: 0.288 Billion Rands
- **Mining Timber**: 0.218 Billion Rands
- **Other**: 0.083 Billion Rands

Total – R10 102 million
Value of Roundwood Production ex Plantations by Province 2017

<table>
<thead>
<tr>
<th>Province</th>
<th>Value ( Million Rands )</th>
</tr>
</thead>
<tbody>
<tr>
<td>KZN</td>
<td>5,309</td>
</tr>
<tr>
<td>Mupumlanga</td>
<td>3,328</td>
</tr>
<tr>
<td>Eastern Cape</td>
<td>1,044</td>
</tr>
<tr>
<td>Limpopo</td>
<td>285</td>
</tr>
<tr>
<td>Western Cape</td>
<td>136</td>
</tr>
</tbody>
</table>

Total: R10.102 million
Value of Roundwood Production ex Plantations by Province & Product 2017

Total - R10 102 million
Value of Roundwood Production ex Plantations by Province & Product 2017

<table>
<thead>
<tr>
<th>Province</th>
<th>Other</th>
<th>Sawlogs</th>
<th>Pulpwood</th>
<th>Total (Million Rands)</th>
</tr>
</thead>
<tbody>
<tr>
<td>KZN</td>
<td>285</td>
<td>1 044</td>
<td>5 309</td>
<td>5 309</td>
</tr>
<tr>
<td>Mupumlanga</td>
<td></td>
<td>1 211</td>
<td>3 328</td>
<td>3 328</td>
</tr>
<tr>
<td>Eastern Cape</td>
<td></td>
<td>64</td>
<td>1 044</td>
<td>1 044</td>
</tr>
<tr>
<td>Limpopo</td>
<td>136</td>
<td>285</td>
<td></td>
<td>285</td>
</tr>
<tr>
<td>Western Cape</td>
<td></td>
<td></td>
<td></td>
<td>136</td>
</tr>
</tbody>
</table>

Total – R10 102 million
Value of Roundwood Production
1980 to 2017

Nominal increase over period: R9.9 bn (6.034%)
Real increase over period: R5.9 bn (139%)
New Afforestation by Region
1980 to 2017

New afforestation over period: 390,912 ha
Average per year: 10,565 ha
Total New Afforestation by Region
1980 to 2017

<table>
<thead>
<tr>
<th>Region</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>KZN</td>
<td>54.5%</td>
</tr>
<tr>
<td>Mpumalanga &amp; Limpopo</td>
<td>33.6%</td>
</tr>
<tr>
<td>E&amp;W Cape</td>
<td>11.9%</td>
</tr>
</tbody>
</table>

Total = 392,711 ha
Total New Afforestation by Region
10 Yr Period - 2008 to 2017

KZN | Mpumalanga & Limpopo | E&W Cape
---|----------------------|----------
24.6% | 2.7% | 72.7%

Total – 16 900 ha
New Afforestation by Region
10 Year Period – 2008 to 2017

New afforestation over period: 16 900 ha
Average per year: 1 690 ha
New Afforestation by Province 2017

<table>
<thead>
<tr>
<th>Province</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>W. Cape</td>
<td>1.2%</td>
</tr>
<tr>
<td>KZN</td>
<td>43.6%</td>
</tr>
<tr>
<td>Limpopo</td>
<td>16.4%</td>
</tr>
<tr>
<td>Mpumalanga</td>
<td>37.0%</td>
</tr>
<tr>
<td>E. Cape</td>
<td>1.9%</td>
</tr>
</tbody>
</table>

Total – 1 799 ha
New Afforestation by Species
1980 to 2017

AVERAGE PER ANNUM
1980 to 1985: 10 229 ha (13.0% of total)
1986 to 1990: 21 304 ha (27.1% of total)
1991 to 1995: 30 599 ha (39.0% of total)
1996 to 2000: 7 019 ha (8.9% of total)
Total New Afforestation by Species
1980 to 2017

- Pine: 46.8%
- Eucalyptus: 43.6%
- Wattle: 8.7%
- Other: 0.9%

Total – 392,711 ha
New Afforestation by Species 2017

- Eucalyptus: 19.4%
- Wattle: 54.7%
- Pine: 25.6%
- Other Hardwood: 0.3%

Total – 1 799 ha
New Afforestation by Product
1980 to 2017

AVERAGE PER ANNUM
2001 to 2005: 5 044 ha (6.4% of total)
2006 to 2010: 2 592 ha (3.3% of total)
2011 to 2017: 1 253 ha (2.2% of total)
Total New Afforestation by Product 1980 to 2017

- Pulpwood: 57.5%
- Sawlogs: 23.2%
- Mining Timber: 13.7%
- Other: 5.5%

Total – 392 709 ha
New Afforestation by Product 2017

Total – 1 799 ha

- Sawlogs: 60.3%
- Pulpwood: 33.5%
- Mining Timber: 5.3%
- Poles: 0.9%
Area Converted Out of Timber Production by Species 1980 to 2017

Area converted over period: 92,866 ha
Average p.a.: 2,444 ha
Area Converted Out of Timber Production by Species 2008 to 2017

Area converted over period: 7 726 ha
Average p.a.: 773 ha
Total Area Converted out of Timber Production by Species 1980 to 2017

- Pine: 45.4%
- Eucalypts: 28.0%
- Wattle: 24.1%
- Other: 2.5%

Total – 92,866 ha
Total Area Converted out of Timber Production by Species 2017

- Pine
- Eucalypts
- Other Hardwood
- Wattle

- Total - 613 ha

- Pine: 0.0%
- Eucalypts: 30.8%
- Other Hardwood: 51.1%
- Wattle: 18.1%
Net New Afforestation by Species
1980 to 2017

Net new afforestation over period: 299 843 ha
Average p.a.: 7 891 ha
Net New Afforestation by Species
2008 to 2017

Net new afforestation over period: 9 174 ha
Average p.a.: 917 ha
Net New Afforestation by Species
1980 to 2017

<table>
<thead>
<tr>
<th>Species</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pine</td>
<td>47.2%</td>
</tr>
<tr>
<td>Eucalypts</td>
<td>48.4%</td>
</tr>
<tr>
<td>Wattle</td>
<td>3.9%</td>
</tr>
<tr>
<td>Other</td>
<td>0.5%</td>
</tr>
</tbody>
</table>

Total – 299,843 ha
Net New Afforestation by Species 2017

Total net new afforestation: 1,186 ha
Area converted over period: 92,870 ha
Average p.a.: 2,444 ha
Area Converted Out of Timber Production by Region 2008 to 2017

Area converted over period: 7 729 ha
Average p.a.: 773 ha
Total Area Converted out of Timber Production by Region 1980 to 2017

- Mpumalanga & Limpopo: 27.3%
- KZN: 42.8%
- E&W Cape: 29.9%

Total – 92 870 ha
Net New Afforestation by Region
1980 to 2017

Net new afforestation over period: 299 841 ha
Average p.a.: 7 891 ha
Net New Afforestation by Region
2008 to 2017

Net new afforestation over period: 9 171 ha
Average p.a.: 917 ha
Net New Afforestation by Region
1980 to 2017

Total – 299 841 ha

- Mpumalanga & Limpopo: 7.1%
- KZN: 58.2%
- W&E Cape: 34.8%

Total: 299 841 ha
Conversion of Plantations out of Production & to Other Species 1980 to 2017

Net loss to production area over period: 92 866 ha
Average p.a.: 2 444 ha
Conversion of Plantations out of Production & to Other Species 2008 to 2017

Net loss to production area over period: 7 727 ha
Average p.a.: 773 ha
Total Area Converted out of Production & to Other Species 1980 to 2017

- Pine: -83 429 ha
- Eucalypts: 47 188 ha
- Wattle: -59 518 ha
- Other: 2 892 ha

Net loss to production area over period: 92 866 ha
Average p.a.: 2 444 ha
Area Converted out of Production & to Other Species 2017

Hectares

<table>
<thead>
<tr>
<th>Species</th>
<th>Pine</th>
<th>Eucalypts</th>
<th>Wattle</th>
<th>Other</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>-3 021</td>
<td>4 232</td>
<td>-1 831</td>
<td>7</td>
</tr>
</tbody>
</table>

Land taken out of timber production: 613 ha
Net Addition to Planted Area by Species 1980 to 2017

Total net addition to production area: 299,842 ha
Average p.a.: 7,891 ha
Net Addition to Planted Area by Species 2008 to 2017

Total net addition to production area: 9 173 ha
Average p.a.: 917 ha
Total Net Addition to Planted Area by Species 1980 to 2017

Pine: 100,347 hectares
Eucalyptus: 218,257 hectares
Wattle: -25,374 hectares
Other: 6,612 hectares

Total net addition to production area: 299,842 ha
Average p.a.: 7,891 ha
### Net Addition (Loss) to Planted Area by Species 2017

<table>
<thead>
<tr>
<th>Species</th>
<th>Hectares</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pine</td>
<td>-2,037</td>
</tr>
<tr>
<td>Eucalyptus</td>
<td>4,581</td>
</tr>
<tr>
<td>Wattle</td>
<td>-1,370</td>
</tr>
<tr>
<td>Other</td>
<td>12</td>
</tr>
</tbody>
</table>

**Total net gain in production area:** Plus 1,186 ha
Damage to Plantations by Genera 1980 to 2017

Total area damaged over period: 1,143,116 ha
Average p.a.: 30,082 ha
Damage to Plantations by Fires
1980 to 2017

Total area damaged over period: 1 143 116 ha
Total area damaged – fire: 669 439 ha (59%)
Total area damaged - other causes: 473 677 ha (41%)
Damage to Plantations by Fires 2008 to 2017

Total area damaged over period: 312 501 ha
Total area damaged – fire: 207 122 ha (66%)
Total area damaged - other causes: 105 379 ha (34%)

Total area damaged over period: 312 501 ha
Total area damaged – fire: 207 122 ha (66%)
Total area damaged - other causes: 105 379 ha (34%)
Damage to Plantations by Genera 2017

- **Total** – 25,682 ha (2.1% of total planted area)

**Pie Chart**

- **Softwood**
  - 45.6%
- **Hardwood**
  - 54.4%
Damage to Plantations by Cause 2017

Total – 25 682 ha

37.1% Other Causes
62.9% Fire
Damage to Plantations by Fire 2017

- Arson: 33.3%
- Accidental: 13.6%
- Natural: 32.4%
- Unknown: 20.8%

Total: 16,145 ha
RSA vs. Africa: as at January 2019

**FSC Certificates**

RSA FMU certificates cover 1.422 million ha or 39% of African Total.

RSA 60% of African Total coverage of 6.758 million ha.

RSA 39% of African Total

RSA 60% of African Total

Number of Certificates

- Farm Management Unit: RSA 52, Africa 20
- Chain of Custody: RSA 197, South Africa 115
FSC Certified Forest Areas in Africa as at January 2019

Total FSC certified area in Africa: 6,757,626 ha
FSC Certified Forest Areas in Selected Countries as at January 2019

<table>
<thead>
<tr>
<th>Country</th>
<th>Thousand Hectares</th>
</tr>
</thead>
<tbody>
<tr>
<td>Brazil</td>
<td>6,738</td>
</tr>
<tr>
<td>Chile</td>
<td>2,325</td>
</tr>
<tr>
<td>RSA</td>
<td>1,422</td>
</tr>
<tr>
<td>NZ</td>
<td>1,250</td>
</tr>
<tr>
<td>Australia</td>
<td>1,246</td>
</tr>
<tr>
<td>Uruguay</td>
<td>1,008</td>
</tr>
<tr>
<td>China</td>
<td>988</td>
</tr>
<tr>
<td>Argentina</td>
<td>474</td>
</tr>
</tbody>
</table>

Total FSC certified area in world: 196 million ha in 84 countries
FSC Certified Forest Areas
Top 5 Countries as at January 2019

- Canada: 50.559 million hectares
- Russia: 45.182 million hectares
- USA: 14.040 million hectares
- Sweden: 12.725 million hectares
- Belarus: 9.506 million hectares

Total FSC certified area in world: 196 million hectares
FSC Certified Forests by Region
as at January 2019

- Europe: 98.693 million hectares
- North America: 65.921 million hectares
- Latin America: 13.497 million hectares
- Asia: 8.416 million hectares
- Africa: 6.758 million hectares
- Oceania: 2.655 million hectares

Total FSC certified area: 196 million ha in 84 countries
### FSC Certified Forests by Ownership: as at January 2019

<table>
<thead>
<tr>
<th>Ownership</th>
<th>Certified Area – 1 421 770 ha (incl. planted &amp; non-planted areas)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Private Cos</td>
<td>64.2%</td>
</tr>
<tr>
<td>Private Cos (ex SAFCOL)</td>
<td>11.0%</td>
</tr>
<tr>
<td>SAFCOL (KLF)</td>
<td>11.6%</td>
</tr>
<tr>
<td>Group Schemes</td>
<td>13.2%</td>
</tr>
</tbody>
</table>

Certified Area – 1 421 770 ha (incl. planted & non-planted areas)
FSC Certified Forests by Ownership as at January 2019

Total FSC certified area: 1,421,770 ha
Section 3

THE FOREST PRODUCTS INDUSTRY
Number of Processing Plants by Type 2017

- **Sawmills**: 75 plants
- **Pole Plants**: 32 plants
- **Pulp, Paper & Board Mills**: 20 plants
- **Mining Timber Mills**: 14 plants
- **Charcoal Plants**: 3 plants
- **Veneer Plants**: 2 plants
- **Match Factories**: 1 plant

Total number of plants: 147
Intake of Roundwood into Processing Plants
1980 to 2017

Total increase in intake over period: 6.6 m m³ (60%)
Biggest increase that of pulpwood: 7.8 m m³ (184%)
Intake of Roundwood into Processing Plants
2017

- Pulp, Paper & Board Mills: 67.6%
- Sawmills: 25.8%
- Mng. Timber Mills: 2.7%
- Other: 3.9%

Total: 17.7 million m³
Roundwood Intake into Processing Plants by Province & Product 2017

KZN
- Pulpwood: 9.361
- Sawlogs: 1.202
- Other: 0.229

Mpum
- Pulpwood: 2.298
- Sawlogs: 1.623
- Other: 0.530

E Cape
- Pulpwood: 0.305
- Sawlogs: 0.567
- Other: 0.016

Limpopo
- Pulpwood: 0.000
- Sawlogs: 0.769
- Other: 0.300

W Cape
- Pulpwood: 0.000
- Sawlogs: 0.400
- Other: 0.102

Total – 17.7 million m³
Average Size of Plant by Intake
1980 vs. 2017

Overall average intake has increased by: 161%
Average intake of Sawmills has increased by: 140%
Only average intake of MT Mills has declined by: 53%
Sales of Certain Products from Processing Plants 1980 to 2017

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

Biggest increase that of chips: 1.9 million tons (+467%)

Biggest decrease that of mining timber: 1.3 million tons (-80%)
Value of Sales from Primary Processing Plants 2017

Total R26.6 billion

- Pulp: 54.7%
- Chips: 5.8%
- Lumber: 24.9%
- Panels: 7.1%
- Mng. Timber: 1.3%
- Poles: 4.4%
- Other: 1.8%
Value of Sales from Primary Processing Plants 2017

Total R26.6 billion
Value of Sales from Primary Processing Plants 1980 to 2017

Nominal increase over period
R25.9 bn (3 717%)

Real increase over period
R8.7 bn (49%)
Value of Roundwood Sales from Processing Plants by Product & Province 2017

Total R26.6 billion

Forestry South Africa
### Value of Roundwood Sales from Processing Plants by Product & Province 2017

#### Million Rands

<table>
<thead>
<tr>
<th>Province</th>
<th>Other</th>
<th>Sawn Timber</th>
<th>Pulp / Boards / Chips</th>
</tr>
</thead>
<tbody>
<tr>
<td>KZN</td>
<td></td>
<td>2000</td>
<td>14092</td>
</tr>
<tr>
<td>Mpum</td>
<td></td>
<td>1200</td>
<td>5202</td>
</tr>
<tr>
<td>Limpopo</td>
<td></td>
<td>800</td>
<td>1042</td>
</tr>
<tr>
<td>E. Cape</td>
<td></td>
<td>400</td>
<td>981</td>
</tr>
<tr>
<td>W. Cape</td>
<td></td>
<td>300</td>
<td>430</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td>500</td>
<td>2900</td>
<td>23512</td>
</tr>
</tbody>
</table>

**Total Value:** R26.6 billion
Gross Value of Output Comparisons per Planted Hectare 2007, 2012 & 2017

<table>
<thead>
<tr>
<th>Prod.</th>
<th>2007</th>
<th>2012</th>
<th>2017</th>
</tr>
</thead>
<tbody>
<tr>
<td>Forestry</td>
<td>4 081</td>
<td></td>
<td>5 831</td>
</tr>
<tr>
<td>Sugar</td>
<td>3 673</td>
<td>7 585</td>
<td>8 335</td>
</tr>
<tr>
<td>Wheat</td>
<td>7 999</td>
<td>11 638</td>
<td>11 247</td>
</tr>
<tr>
<td>Maize</td>
<td>5 000</td>
<td>7 999</td>
<td>9 951</td>
</tr>
<tr>
<td>Forestry</td>
<td>4 081</td>
<td></td>
<td>5 831</td>
</tr>
<tr>
<td>Total</td>
<td></td>
<td>20 000</td>
<td>23 503</td>
</tr>
</tbody>
</table>
Value Addition in Primary Processing Industry 2017

Note: excludes secondary processing (e.g. paper manufacturing)
Value Addition Comparisons in Primary Processing Industry 2017

<table>
<thead>
<tr>
<th>Industry</th>
<th>Output as ratio of Input</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pole Plants</td>
<td>4.07</td>
</tr>
<tr>
<td>Total Industry</td>
<td>2.63</td>
</tr>
<tr>
<td>Pulp / Paper Mills</td>
<td>2.60</td>
</tr>
<tr>
<td>Sawmills</td>
<td>2.57</td>
</tr>
<tr>
<td>Charcoal Plants</td>
<td>2.21</td>
</tr>
<tr>
<td>M. T. Mills</td>
<td>1.56</td>
</tr>
</tbody>
</table>

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 2017

<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>59 800</td>
<td>27 500</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>8 000</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>10 000</td>
<td>n/a</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>111 200</strong></td>
<td><strong>46 300</strong></td>
</tr>
</tbody>
</table>

Direct jobs in Forestry = 59 800
Indirect jobs in Forestry (157 500 less 59 800) = 97 700
Direct Employment in Forestry Industry by Province 2017

Total 59 800
Direct Employment in Forestry Industry by Region 2017

Number of Direct Jobs

- KZN: 28,370
- Mpumalanga: 22,210
- E. Cape: 5,530
- Limpopo: 2,200
- W. Cape: 1,520

Total est. direct jobs in industry: 59,800

Total Employment

- KZN: 2,583,000
- Mpumalanga: 1,212,000
- E. Cape: 1,416,000
- Limpopo: 1,390,000
- W. Cape: 2,403,000
Direct Employment in Forestry Industry as % of Those Employed in 2017

- Mpumalanga: 1.83%
- KZN: 1.10%
- E. Cape: 0.39%
- RSA: 0.37%
- Limpopo: 0.16%
- W. Cape: 0.06%

Total employed in RSA: 16 100 000
Indirect Employment Created by Forestry Industry by Province 2017

- **KZN**: 44,480
- **Mpumalanga**: 30,590
- **E. Cape**: 7,700
- **Limpopo**: 10,030
- **W. Cape**: 4,900

Total estimated indirect jobs created by industry in forestry and wood processing activities – 97,700

Total Employment

- **KZN**: 2,583,000
- **Mpumalanga**: 1,212,000
- **E. Cape**: 1,416,000
- **Limpopo**: 1,390,000
- **W. Cape**: 2,403,000
Indirect Employment Created by Forestry Industry as % of Those Employed in 2017

- Mpumalanga: 2.52%
- KZN: 1.72%
- Limpopo: 0.78%
- RSA: 0.61%
- E. Cape: 0.54%
- W. Cape: 0.20%

% of Total Employed in Formal Sector
Direct & Indirect Jobs in & Created by Forestry Industry by Province 2017

Estimated total – 157 500 jobs
Total Employment in Industry as % of Those Employed in Formal Sector 2017

<table>
<thead>
<tr>
<th>Province</th>
<th>Direct</th>
<th>Indirect</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mpumalanga</td>
<td></td>
<td></td>
<td>4.36%</td>
</tr>
<tr>
<td>KZN</td>
<td></td>
<td></td>
<td>2.83%</td>
</tr>
<tr>
<td>E. Cape</td>
<td></td>
<td></td>
<td>1.17%</td>
</tr>
<tr>
<td>RSA</td>
<td></td>
<td></td>
<td>0.98%</td>
</tr>
<tr>
<td>Limpopo</td>
<td></td>
<td></td>
<td>0.70%</td>
</tr>
<tr>
<td>W. Cape</td>
<td>0.27%</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Dependants of Those Working in Forestry Industry by Province 2017

- **KZN**: 246,900 dependants
- **Mpumalanga**: 180,600 dependants
- **E. Cape**: 45,200 dependants
- **Limpopo**: 38,900 dependants
- **W. Cape**: 19,300 dependants

**Est. total** – 531,000 dependants
Total Number of People Dependent on Forestry Industry by Province 2017

- **KZN**: 319,800 (Workers: 68,800, Dependents: 251,000)
- **Mpumalanga**: 233,400 (Workers: 58,500, Dependents: 174,900)
- **E. Cape**: 58,500 (Workers: 8,600, Dependents: 49,900)
- **Limpopo**: 51,100 (Workers: 8,200, Dependents: 42,900)
- **W. Cape**: 25,700 (Workers: 3,300, Dependents: 22,400)

Est. total – 688,000 livelihoods
Estimated % of Population Dependent on Forestry Industry 2017

- **Mpumalanga**: 5.25% (4,440,000)
- **KZN**: 2.89% (11,075,000)
- **RSA**: 1.22% (56,522,000)
- **E. Cape**: 0.90% (5,778,000)
- **Limpopo**: 0.88% (6,499,000)
- **W. Cape**: 0.39% (6,510,000)

Total RSA population: 56.5 million
Section 5

INVESTMENT IN THE SECTOR
Investment in RSA Forestry Industry 2017

Total Investment
R46.7 billion

- Trees: 51.6%
- Land: 36.2%
- Roads: 7.1%
- Fixed Assets: 3.9%
- Moveable Assets: 1.3%
Investment in RSA Forestry Industry 2017

Total Investment
R46.7 billion

- Pine Long: 46.0%
- Gum Short: 32.6%
- Pine Short: 12.5%
- Wattle: 6.0%
- Gum Long: 2.9%
Investment in RSA Forestry Industry 2017

Total Investment
R46.7 billion

Mpumalanga 35.6%
KZN 41.9%
E. Cape 13.6%
W. Cape 4.4%
Limpopo 4.5%
Investment in Plantations – By Province 2017

- Mpumalanga: 19.581 Billion Rand (41.9% of total)
- KZN: 16.617 Billion Rand
- E. Cape: 6.361 Billion Rand
- Limpopo: 2.085 Billion Rand
- W. Cape: 2.047 Billion Rand

Mpumalanga = highest investment (41.9% of total)
Investment in Mpumalanga Forestry 2017

Total Investment
R19.6 billion
Investment in KZN Forestry 2017

- Total Investment: R16.6 billion

- Pine Long: 18.4%
- Pine Short: 10.7%
- Gum Short: 55.8%
- Gum Long: 0.9%
- Wattle: 14.1%

Total Investment
R16.6 billion
Investment in E. Cape Forestry 2017

Total Investment
R6.4 billion
Investment in Limpopo Forestry 2017

- Pine Long: 66.8%
- Pine Short: 0.0%
- Gum Short: 13.7%
- Gum Long: 19.4%
- Wattle: 0.0%

Total Investment: R2.1 billion
Investment in W. Cape Forestry 2017

Total Investment
R2.0 billion
Investment in Forest Products Sector by Type of Processing Plant 2017

- Pulp & Board: 86.1%
- Sawmills & Veneer: 11.2%
- Other: 1.9%
- Pole Plants: 0.7%
- Mng. Timber: 0.1%

Total book value of investments: R22.1 billion
Investment in Forest Products Sector by Investment Category 2017

Total book value of investments R22.8 billion
Section 6

CONTRIBUTION TO GDP
Composition of RSA GDP 2017

Secondary
- Elec, gas & water
- Construction
- Transport

Tertiary
- Trade
- Personal services
- Govt. services
- Tax subsidies

Total GDP – R4 066 billion (R4.1 trillion)
Contribution to GDP 1980 to 2017

Increase in *Forestry to Ag GDP* over period from 4.5% to 10.0%

Decrease in *For. Prod. to Mfg GDP* over period from 6.3% to 5.0%
Forest Products vs. Other Manufacturing GGP per Region 2017

<table>
<thead>
<tr>
<th>Province</th>
<th>Forest Products</th>
<th>Other Manufacturing</th>
</tr>
</thead>
<tbody>
<tr>
<td>Limpopo</td>
<td>22.2%</td>
<td></td>
</tr>
<tr>
<td>Mupumlanga</td>
<td>16.9%</td>
<td></td>
</tr>
<tr>
<td>KZN</td>
<td>15.5%</td>
<td></td>
</tr>
<tr>
<td>RSA</td>
<td>5.5%</td>
<td></td>
</tr>
<tr>
<td>E. Cape</td>
<td>3.8%</td>
<td></td>
</tr>
<tr>
<td>W. Cape</td>
<td>1.1%</td>
<td></td>
</tr>
</tbody>
</table>
Gross Value of Output by Sector & Province 2017

<table>
<thead>
<tr>
<th>Province</th>
<th>Forest Products</th>
<th>Forestry</th>
</tr>
</thead>
<tbody>
<tr>
<td>KZN</td>
<td>16 209</td>
<td>5 309</td>
</tr>
<tr>
<td>Mupumlanga</td>
<td>6 402</td>
<td>3 328</td>
</tr>
<tr>
<td>Eastern Cape</td>
<td>1 842</td>
<td>1 044</td>
</tr>
<tr>
<td>Limpopo</td>
<td>1 321</td>
<td>285</td>
</tr>
<tr>
<td>Western Cape</td>
<td>835</td>
<td>136</td>
</tr>
</tbody>
</table>

Forestry: R10.1bn
Forest Products: R26.6bn
Forestry Industry Contribution to Agricultural GGP per Region - 2017

- Mpum: 43.82%
- KZN: 24.58%
- E. Cape: 20.39%
- RSA: 11.98%
- Limpopo: 4.75%
- W. Cape: 0.76%
Forest Industry Contribution to Total GGP per Region - 2017

<table>
<thead>
<tr>
<th>Region</th>
<th>Forest Products</th>
<th>Forestry</th>
</tr>
</thead>
<tbody>
<tr>
<td>KZN</td>
<td>2.50%</td>
<td>0.82%</td>
</tr>
<tr>
<td>Mpum</td>
<td>2.10%</td>
<td>1.09%</td>
</tr>
<tr>
<td>RSA</td>
<td>0.65%</td>
<td>0.25%</td>
</tr>
<tr>
<td>E. Cape</td>
<td>0.33%</td>
<td>0.42%</td>
</tr>
<tr>
<td>Limpopo</td>
<td>0.64%</td>
<td>0.10%</td>
</tr>
<tr>
<td>W. Cape</td>
<td>0.02%</td>
<td>0.15%</td>
</tr>
</tbody>
</table>
Importance of forestry and forest products sector has been declining in all provinces in which it operates over a number of years.
CONTRIBUTION TO FOREIGN TRADE
Exports of Forest Products
2016 vs. 2017

Exports in 2017 R231 million or 0.7% less than in 2016
Imports of Forest Products
2016 vs. 2017

- Pulp:
  - 2016: R1.556bn
  - 2017: R1.370bn
- Paper:
  - 2016: R13.132bn
  - 2017: R12.100bn
- Solid Wood & Other:
  - 2016: R5.107bn
  - 2017: R4.843bn

2016 - R19.8bn
2017 - R18.3bn

Imports in 2017 R1.482bn or 7.0% down on 2016
Imports vs. Exports of Forest Products

Trade Balance 2016 vs. 2017

- Imports 2016: R19.795bn
- Exports 2016: R18.313bn
- Trade Balance 2016: R1.482bn

- Imports 2017: R18.313bn
- Exports 2017: R28.854bn
- Trade Balance 2017: R10.541bn

Trade balance in 2017 R1.251bn or 13.5% more than in 2017
Imports vs. Exports of Forest Products
Trade Balance 2015, 2016 & 2017

<table>
<thead>
<tr>
<th></th>
<th>2015</th>
<th>2016</th>
<th>2017</th>
</tr>
</thead>
<tbody>
<tr>
<td>Imports</td>
<td>18.506</td>
<td>19.795</td>
<td>18.313</td>
</tr>
<tr>
<td>Exports</td>
<td>25.763</td>
<td>29.085</td>
<td>28.854</td>
</tr>
<tr>
<td>Trade Balance</td>
<td>7.258</td>
<td>9.290</td>
<td>10.541</td>
</tr>
</tbody>
</table>
Imports vs. Exports of Forest Products 2017

Positive trade balance in 2017 = R10.541 billion
Forest Product Exports by Product 2017

Total R28.9 billion

- Pulp: 43.5%
- Paper: 28.7%
- Solid Wood: 24.8%
- Other: 3.1%
Forest Product Imports by Product 2017

- Pulp: 7.5%
- Paper: 66.1%
- Solid Wood: 26.2%
- Other: 0.3%

Total: R18.3 billion
Trade Balance in Forest Products
1992 to 2017 (nominal)

Increase in imports: - R16.9 billion (1193%)
Increase in exports: - R26.5 billion (1133%)
Increase in trade balance: - R9.6 billion (1042%)
Trade Balance in Forest Products
1992 to 2017 (real)

- Increase in imports: - R11.8 billion (179%)
- Increase in exports: - R18.0 billion (166%)
- Increase in trade balance: - R6.3 billion (147%)

Years

Imports
Exports
Trade Balance

Billion Rand (2017 Rands)
Export Comparisons
2007, 2012 & 2017

![Bar Chart showing export comparisons for 2007, 2012, and 2017 for various sectors. The sectors include Coal, Fruit & Veg, Forest Prods, and Sugar. The bars are color-coded for each year: 2007 (red), 2012 (blue), and 2017 (teal).]

- **Coal**: 2017 (76.5 billion Rand), 2012 (55.4 billion Rand), 2007 (23.7 billion Rand)
- **Fruit & Veg**: 2017 (48.0 billion Rand), 2012 (19.6 billion Rand), 2007 (10.8 billion Rand)
- **Forest Prods**: 2017 (28.9 billion Rand), 2012 (13.8 billion Rand), 2007 (12.2 billion Rand)
- **Sugar**: 2017 (5.2 billion Rand), 2012 (2.0 billion Rand), 2007 (2.1 billion Rand)
THANK YOU!

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