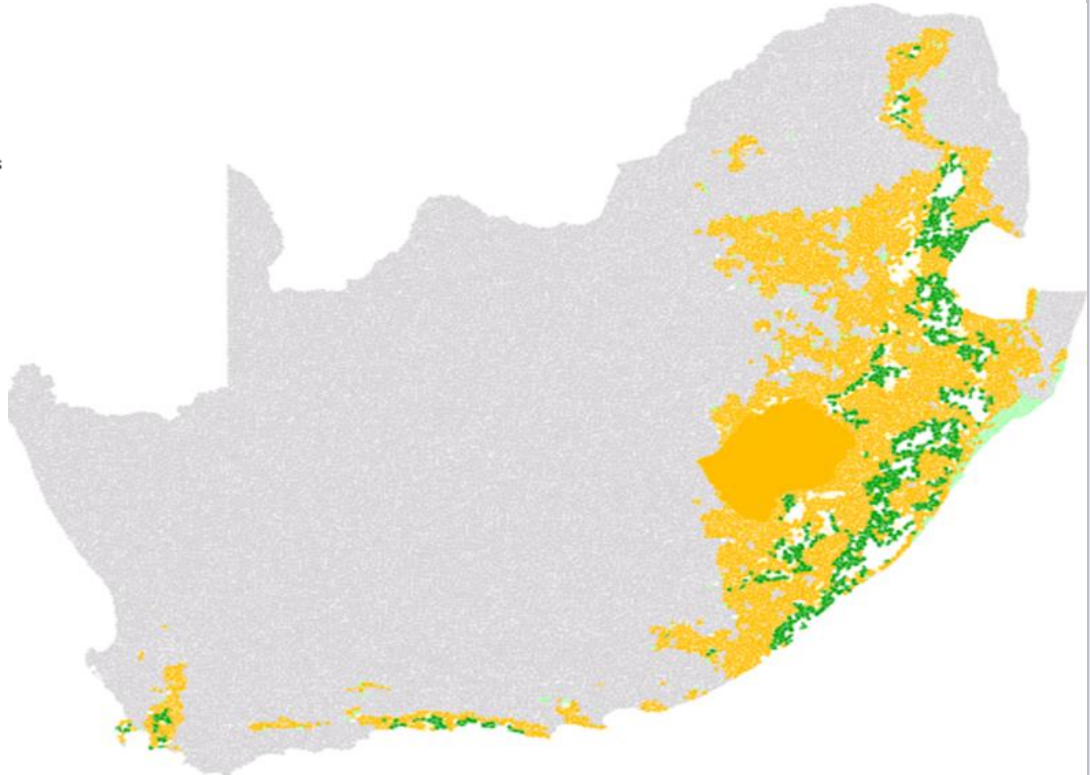


***Pinus taeda Growth Areas*****Legend**

Pinus-taeda Growth Areas

- Optimum
- Moderate Risk: Drought
- High Risk: Too Dry
- Slow Growth Rate
- Outside Climatic Bounds
- Moderate Risk: Frost
- High Risk: Snow
- High Risk: Frost
- High Risk: Snow/Frost
- High Risk: Disease
- High Risk: Pest
- High Risk: Pest/Disease
- Moderate Risk: Mortality



Author(s): Derived from Schulze, R.E and Maharaj, M (2007)

Date: 2007

**Meta-Data**

<b>Title</b>	<i>Pinus taeda growth areas allocated to mesozones</i>
<b>File Name</b>	<i>Join_meso_base_and_pin_tae_int_pt.shp</i>
<b>Author(s)</b>	<i>Derived from Schulze, R.E and Maharaj, M (2007)</i>
<b>Publication Date</b>	2007
<b>Citation</b>	Schulze, R.E. and Maharaj, M. 2007. Pinus taeda Growth Areas and Yield Estimation. In: Schulze, R.E. (Ed). 2007. South African Atlas of Climatology and Agrohydrology. Water Research Commission, Pretoria, RSA, WRC Report 1489/1/06, Section 18.8.
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<b>Abstract</b>	<p>*The dataset shows climatically optimum growth areas and yield estimates of <i>Pinus taeda</i> allocated to mesozones. Yield estimates were derived from Schulze R.E. and Maharaj M. (2007) and then allocated to mesozones by combining with a base mesozone layer obtained from the CSIR Geospatial Analysis Platform (GAP).</p> <p>*The map shows the climatically optimum growth areas to be along the north coast of the Eastern Cape, significant tracts in the midlands of KwaZulu-Natal, and parts of Mpumalanga. Major climatic growth constraints are drought related. Highest Mean Annual Increments (MAIs), according to Smith's (1994) equations, are 20 - 22 t/ha/annum and these coincide with the climatically optimum growth areas.</p>
<b>Keywords</b>	agriculture, biomass, growth areas, mesozones, pinus taeda, yield estimation
<b>Caveats</b>	<a href="http://bea.dirisa.org/resources/metadata-sheets/WP03_00_META_TAE.pdf">http://bea.dirisa.org/resources/metadata-sheets/WP03_00_META_TAE.pdf</a>
<b>Web Meta-Data</b>	
<b>Web Resource</b>	<a href="http://app01.saeon.ac.za:8086/geoserver/BEA/wms?service=WMS&amp;version=1.1.0&amp;request=GetMap&amp;layers=BEA:Join_meso_base_and_pin_tae_int_pt&amp;styles=&amp;bbox=16.4519200002853,-34.83416989569373,32.89253174669768,-22.12503000000106&amp;width=512&amp;height=395&amp;srs=EPSG:4326&amp;format=application/openlayers">http://app01.saeon.ac.za:8086/geoserver/BEA/wms?service=WMS&amp;version=1.1.0&amp;request=GetMap&amp;layers=BEA:Join_meso_base_and_pin_tae_int_pt&amp;styles=&amp;bbox=16.4519200002853,-34.83416989569373,32.89253174669768,-22.12503000000106&amp;width=512&amp;height=395&amp;srs=EPSG:4326&amp;format=application/openlayers</a>

#### Methodology/ Protocol

Processing/ Provenance	As described above
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#### Important Attributes

MESO_ID	Meso-zone ID
AVG_GRID_C	<i>Pinus taeda</i> growth areas and yield estimates, t/ha

#### References and Sources

[1]	<p>Base Mesozone Dataset:  <a href="http://196.21.191.61:8085/geoserver/GAP/wms?service=WMS&amp;version=1.1.0&amp;request=GetMap&amp;layers=GAP:meso_2010_base_wgs84&amp;styles=&amp;bbox=16.4519200000285,-34.8341698956937,32.8925317466977,-22.1250300000011&amp;width=512&amp;height=395&amp;srs=EPSG:4326&amp;format=application/openlayers">http://196.21.191.61:8085/geoserver/GAP/wms?service=WMS&amp;version=1.1.0&amp;request=GetMap&amp;layers=GAP:meso_2010_base_wgs84&amp;styles=&amp;bbox=16.4519200000285,-34.8341698956937,32.8925317466977,-22.1250300000011&amp;width=512&amp;height=395&amp;srs=EPSG:4326&amp;format=application/openlayers</a></p>
[2]	<p>Geospatial Analysis Platform. 2015. GAP. [ONLINE] Available at: <a href="http://www.gap.csir.co.za/">http://www.gap.csir.co.za/</a>. [Accessed 30 March 2015].</p>
[3]	<p><i>Pinus taeda</i> Growth Areas:  <a href="http://196.21.191.61:8085/geoserver/GAP/wms?service=WMS&amp;version=1.1.0&amp;request=GetMap&amp;layers=GAP:Join_meso_base_and_pin_tae_int_pt&amp;styles=&amp;bbox=16.4519200000285,-34.8341698956937,32.8925317466977,-22.1250300000011&amp;width=512&amp;height=395&amp;srs=EPSG:4326&amp;format=application/openlayers">http://196.21.191.61:8085/geoserver/GAP/wms?service=WMS&amp;version=1.1.0&amp;request=GetMap&amp;layers=GAP:Join_meso_base_and_pin_tae_int_pt&amp;styles=&amp;bbox=16.4519200000285,-34.8341698956937,32.8925317466977,-22.1250300000011&amp;width=512&amp;height=395&amp;srs=EPSG:4326&amp;format=application/openlayers</a></p>
[4]	<p>Schulze, R.E. and Maharaj, M. 2007. <i>Pinus taeda</i> Growth Areas and Yield Estimation. In: Schulze, R.E. (Ed). 2007. South African Atlas of Climatology and Agrohydrology. Water Research Commission, Pretoria, RSA, WRC Report 1489/1/06, Section 18.8.</p>