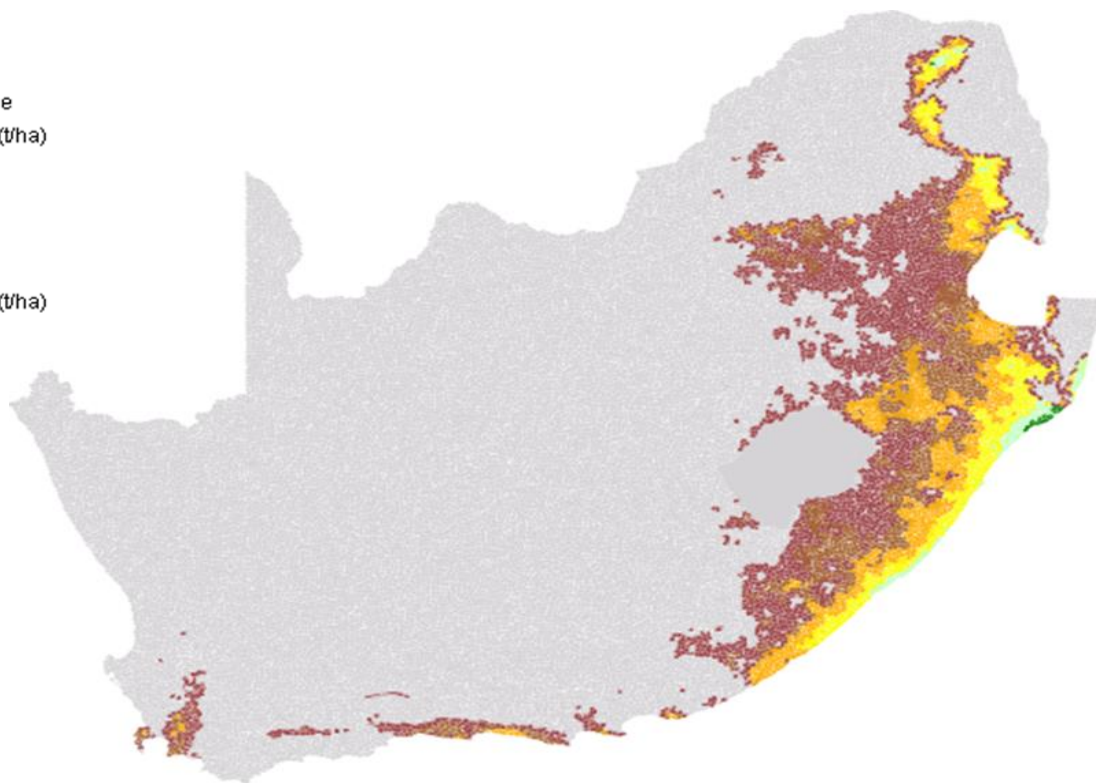| THEME: PLANNING YIELD POTENTIALS	Prepared by: Wim Hugo, SAEON

Pinus taeda Yield Estimation

Legend

Pinus taeda
Yield Estimation

Climatically Unsuitable
2.000001 - 16.00000 (t/ha)
16.00001 - 18.00000
18.00001 - 20.00000
20.00001 - 22.00000
22.00001 - 24.00000
24.00001 - 100.0000 (t/ha)

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

Date: 2007

Meta-Data

Title	*Pinus taeda yield estimates allocated to mesozones*
File Name	*Join_meso_base_and_pin_tae_int_pt.shp*
Author(s)	*Derived from Schulze, R.E and Maharaj, M (2007)*
Publication Date	*2007*
Citation	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.
License	*Creative Commons 4.0 BY SA (No restrictions on re-use, proper citation and attribution require*
Abstract	*The dataset shows climatically optimum growth areas and yield estimates of Pinus taeda 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 dataset obtained from the CSIR Geospatial Analysis Platform (GAP).* *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.*

Keywords	*agriculture, biomass, growth areas, mesozones, pinus taeda, yield estimation*
Caveats	http://bea.dirisa.org/resources/metadata-sheets/WP03_00_META_PTA.pdf
Web Meta-Data	
Web Resource	http://app01.saeon.ac.za:8086/geoserver/BEA/wms?service=WMS&version=1.1.0&request=GetMap&layers=BEA:Join_meso_base_and_mai_pta_int_pt&styles=&bbox=16.451920000002853,-34.83416989569373,32.89253174669768,-22.12503000000106&width=512&height=395&srs=EPSG:4326&format=application/openlayers

Methodology/ Protocol

Processing/ Provenance	*As described above*

Important Attributes

MESO_ID	Meso-zone ID
AVG_GRID_C	*Pinus taeda* yield estimates, t/ha

References and Sources

[1]	Base Mesozone Dataset: http://196.21.191.61:8085/geoserver/GAP/wms?service=WMS&version=1.1.0&request=GetMap&layers=GAP:meso_2010_base_wgs84&styles=&bbox=16.4519200000285,-34.8341698956937,32.8925317466977,-22.1250300000011&width=512&height=395&srs=EPSG:4326&format=application/openlayers
[2]	Geospatial Analysis Platform. 2015. GAP. [ONLINE] Available at: http://www.gap.csir.co.za/. [Accessed 30 March 2015].
[3]	*Pinus taeda* Yield Estimates: http://196.21.191.61:8085/geoserver/GAP/wms?service=WMS&version=1.1.0&request=GetMap&layers=GAP:Join_meso_base_and_mai_pta_int_pt&styles=&bbox=16.4519200000285,-34.8341698956937,32.8925317466977,-22.1250300000011&width=512&height=395&srs=EPSG:4326&format=application/openlayers
[4]	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.