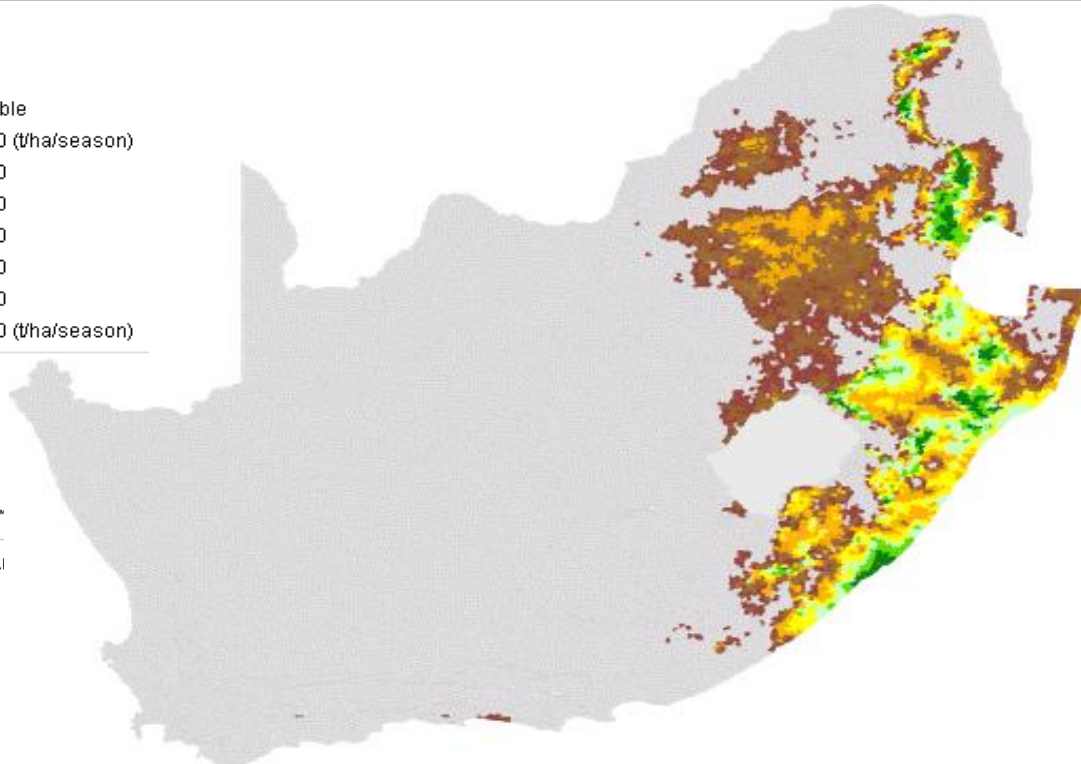


Sorghum Yield Estimation

Legend

- Sorghum Yield
- Climatically Unsuitable
 - 1.000001 - 3.000000 (t/ha/season)
 - 3.000001 - 4.000000
 - 4.000001 - 5.000000
 - 5.000001 - 6.000000
 - 6.000001 - 7.000000
 - 7.000001 - 8.000000
 - 8.000001 - 50.000000 (t/ha/season)



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

Date: 2007

Meta-Data

Title	Sorghum Yield Estimates per mesozone
File Name	Join_meso_base_and_yld_sorgh_int_pt.shp
Author(s)	Derived from Schulze, R.E and Mararaj, M (2007)
Publication Date	2007
Citation	Schulze, R.E. and Maharaj, M. 2007. Sorghum 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 16.4.
License	Creative Commons 4.0 BY SA (No restrictions on re-use, proper citation and attribution require

Abstract	<p>*Data shows sorghum yield estimates 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>*Sorghum is indigenous to Africa. In comparison with maize, it is grown in relatively warm areas.</p> <p>*Using Smith's (1998) climatic criteria, yields of sorghum are estimated using the effective rainfall for October to March and heat units (base 10 degree Celsius) for the same period, with modifications to yield made for soil properties and management levels. Rainfall values were derived from the 1 arc minute (1' x 1' latitude x longitude) median monthly rainfalls generated for South Africa by Lynch (2004).</p>
Keywords	agriculture, crops, mesozones, sorghum, yield estimation
Caveats	http://bea.dirisa.org/resources/metadata-sheets/WP03_00_META_SRG.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_yld_sorgh_int_pt&styles=&bbox=16.4519200002853,-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	Sorghum Yield estimates, t/ha

References and Sources

[1]	<p>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=16.451920000285,-34.8341698956937,32.8925317466977,-22.1250300000011&width=512&height=395&srs=EPSG:4326&format=application/openlayers</p>
[2]	<p>Geospatial Analysis Platform. 2015. GAP. [ONLINE] Available at: http://www.gap.csir.co.za/. [Accessed 30 March 2015].</p>
[3]	<p>Schulze, R.E. and Maharaj, M. 2007. Sorghum 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 16.4.</p>
[4]	<p>Sorghum Yield: http://196.21.191.61:8082/geoserver/BEEH_grid/wms?service=WMS&version=1.1.0&request=GetMap&layers=BEEH_grid:yld_sorghum&styles=&bbox=16.458333,-34.841667,32.908333,-22.141667&width=512&height=395&srs=EPSG:4326&format=application/openlayers</p>