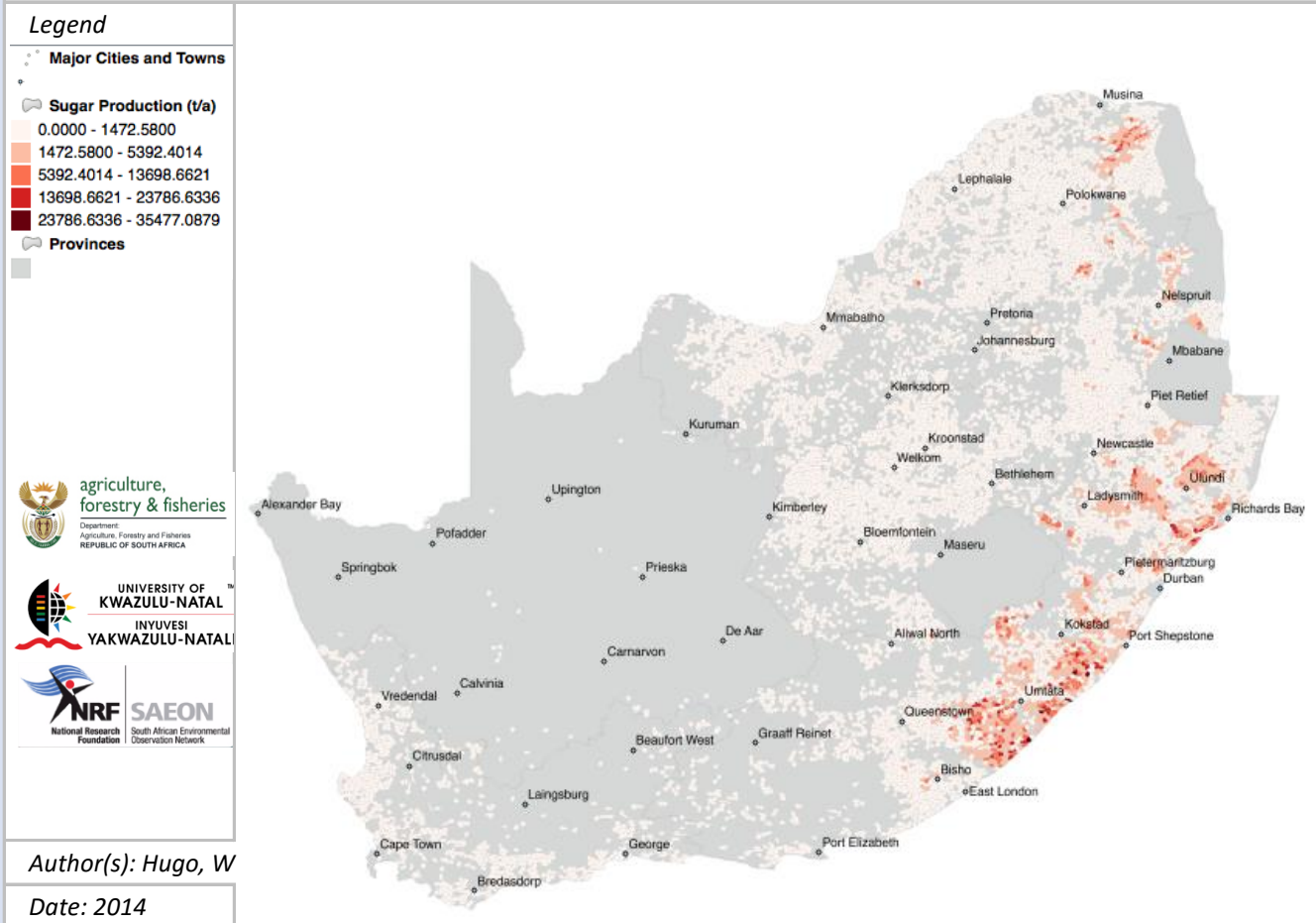


**Production of Sweet Sorghum on Subsistence and Underutilised Farmland**



**Meta-Data**

<b>Title</b>	Production of Sweet Sorghum on Subsistence and Underutilised Farmland
<b>File Name</b>	1_03_SSO.shp
<b>Author(s)</b>	Hugo, W
<b>Publication Date</b>	2014
<b>Citation</b>	Hugo, W, 2014. Sweet Sorghum Production on Subsistence Farmland. In: Hugo W. (Ed). 2015. South African BioEnergy Atlas. DST, Pretoria, RSA, Section W03_00.
<b>License</b>	<a href="https://creativecommons.org/licenses/by-sa/4.0/">Creative Commons 4.0 BY SA (No restrictions on re-use, proper citation and attribution requ</a>
<b>Abstract</b>	<p>Data was derived from the following sources:</p> <ul style="list-style-type: none"> <li>* Extent of underutilised and subsistence farmland, data obtained from Department of Agriculture, Forestry, and Fisheries.</li> <li>* On such land, Sweet Sorghum potential was calculated from data published by Schulze and Maharaj (2007) on sorghum-growing potential.</li> <li>* Grain, Sugar, and Residue production was calculated based on grain yields, and aggregated to meso-zones for planning and feasibility analysis.</li> <li>* Grain, Sugar, and Residue ratios were derived from literature</li> </ul>

<b>Keywords</b>	<i>biomass, potential, agriculture, sugar, grain, sorghum, sweet sorghum, residue, straw</i>
<b>Caveats</b>	<a href="http://bea.dirisa.org/resources/metadata-sheets/WP03_00_META_SSO.pdf">http://bea.dirisa.org/resources/metadata-sheets/WP03_00_META_SSO.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:1_03_SSO&amp;styles=&amp;bbox=16.451920000028533,-34.83416989569374,32.892531746697685,-22.125030000001036&amp;width=512&amp;height=395&amp;srs=EPSG:4326&amp;format=application/ope">http://app01.saeon.ac.za:8086/geoserver/BEA/wms?service=WMS&amp;version=1.1.0&amp;request=GetMap&amp;layers=BEA:1_03_SSO&amp;styles=&amp;bbox=16.451920000028533,-34.83416989569374,32.892531746697685,-22.125030000001036&amp;width=512&amp;height=395&amp;srs=EPSG:4326&amp;format=application/ope</a>

#### **Methodology/ Protocol**

Processing/ Provenance	<i>As described above</i>
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#### **Important Attributes**

MESO_ID	Meso-zone ID
INF_HA	Subsistence and Underutilised farmland in mesozone, ha
SSO	Biomass production in zone per annum, tons
SUGAR	Sugar production per zone per annum, tons
GRAIN	Grain or seed production in zone per annum, tons
LIGNO	Ligno-Cellulose (Residue) production in zone per annum, tons

#### **References and Sources**

[1]	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.
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[3]	Crop Boundaries for South Africa - Obtained from Department of Agriculture, Fisheries, and Forestry, 2014. Refer to <a href="http://app01.saeon.ac.za:8085/geoserver/WP03/wms?service=WMS&amp;version=1.1.0&amp;request=GetMap&amp;layers=WP03:cropland_rsa&amp;styles=&amp;bbox=17.87917501867629,-34.72917318565405,32.84584168833629,-22.143699645996094&amp;width=512&amp;height=430&amp;srs=EPSG:4326&amp;format=application/openlayers">http://app01.saeon.ac.za:8085/geoserver/WP03/wms?service=WMS&amp;version=1.1.0&amp;request=GetMap&amp;layers=WP03:cropland_rsa&amp;styles=&amp;bbox=17.87917501867629,-34.72917318565405,32.84584168833629,-22.143699645996094&amp;width=512&amp;height=430&amp;srs=EPSG:4326&amp;format=application/openlayers</a>
[4]	Hugo, W 2014. Crop Yield Ratios and Potential for Yield Improvement, South African BioEnergy Atlas, DST, Pretoria, South Africa, 2015. Section WP03_00_CROP_YIELD