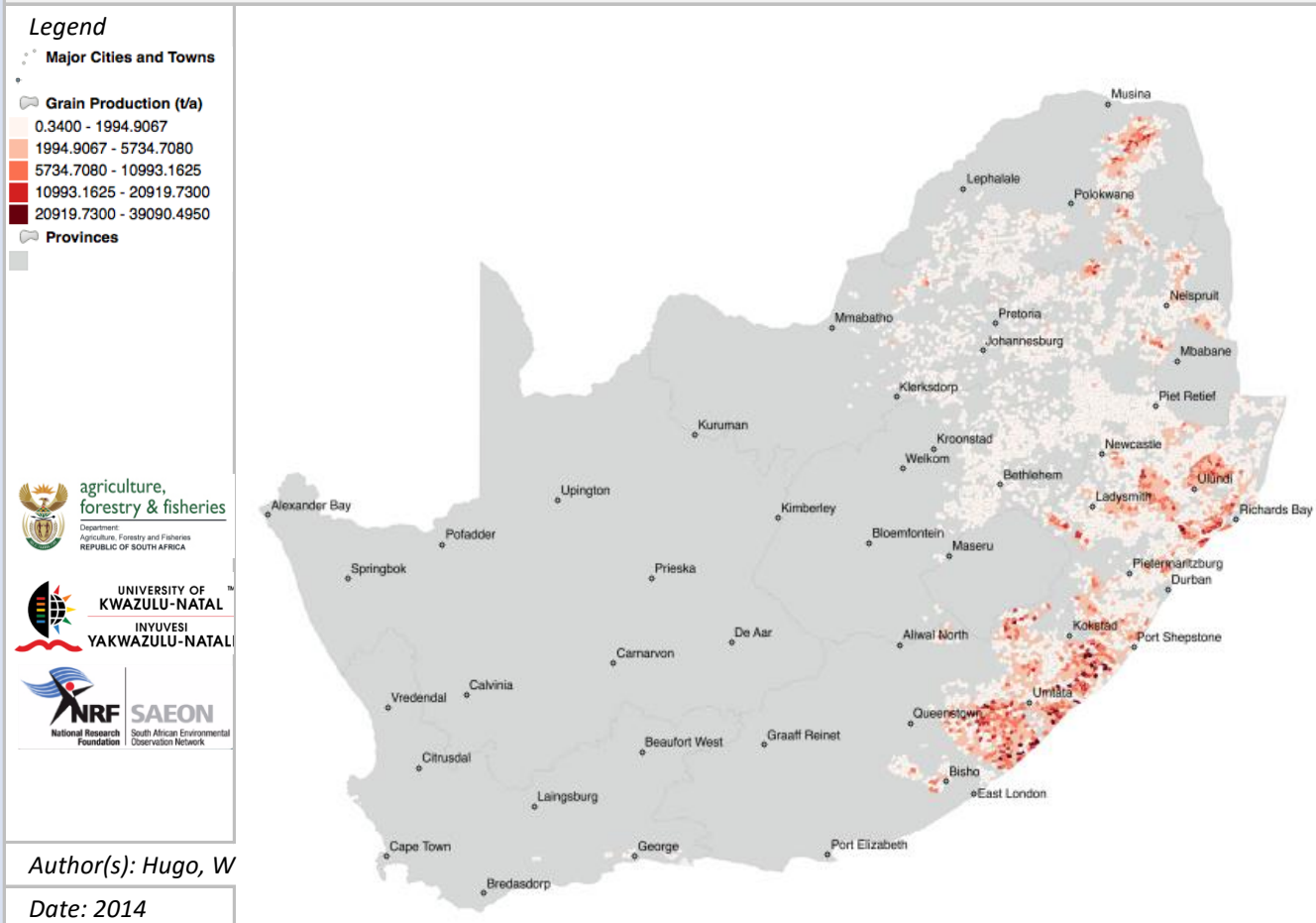


Production of Sorghum on Subsistence and Underutilised Farmland**Meta-Data**

Title	Production of Sorghum on Subsistence and Underutilised Farmland
File Name	1_03_SOR.shp
Author(s)	Hugo, W
Publication Date	2014
Citation	Hugo, W, 2014. Sorghum Production on Subsistence Farmland. In: Hugo W. (Ed). 2015. South African BioEnergy Atlas. DST, Pretoria, RSA, Section W03_00.
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Abstract	Data was derived from the following sources: * Extent of underutilised and subsistence farmland, data obtained from Department of Agriculture, Forestry, and Fisheries. * On such land, sorghum potential was calculated from data published by Schulze and Maharaj (2007) on sorghum-growing potential. * Grain and Residue production was calculated based on grain yields, and aggregated to meso-zones for planning and feasibility analysis. * Grain and Residue ratios were derived from literature

Keywords	<i>biomass, potential, agriculture, sorghum, grain, residue, straw</i>
Caveats	http://bea.dirisa.org/resources/metadata-sheets/WP03_00_META_SOR.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:1_03_SOR&styles=&bbox=16.451920000028533,-34.83416989569374,32.892531746697685,-22.125030000001036&width=512&height=395&srs=EPSG:4326&format=application/ope

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
SOR	Biomass production in 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.
[2]	"Schulze, R.E. 2007. Primary Production. In: Schulze, R.E. (Ed). 2007. South African Atlas of Climatology and Agrohydrology. Water Research Commission, Pretoria, RSA, WRC Report 1489/1/06, Section 14.1."
[3]	Crop Boundaries for South Africa - Obtained from Department of Agriculture, Fisheries, and Forestry, 2014. Refer to http://app01.saeon.ac.za:8085/geoserver/WP03/wms?service=WMS&version=1.1.0&request=GetMap&layers=WP03:cropland_rsa&styles=&bbox=17.87917501867629,-34.72917318565405,32.84584168833629,-22.143699645996094&width=512&height=430&srs=EPSG:4326&format=application/openlayers
[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