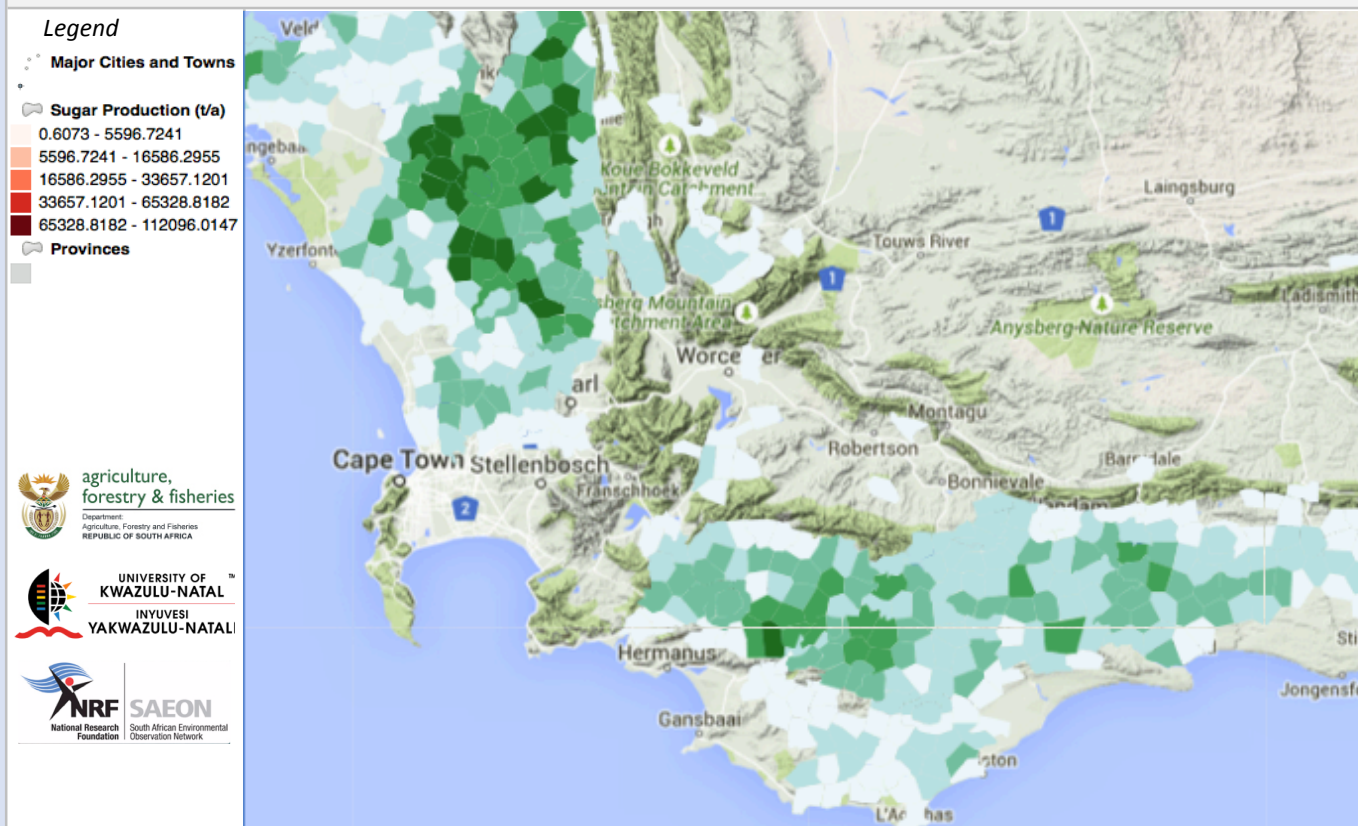


Feasible Extraction of Wheat Residues in the Westrn Cape

Author(s): Hugo, W

Date: 2015

Meta-Data

Title	<i>Feasible Extraction of Wheat Residues in the Westrn Cape</i>
File Name	<i>MESO_WRE.shp</i>
Author(s)	<i>Hugo, W</i>
Publication Date	<i>2015</i>
Citation	<i>Hugo, W, 2014. Feasible Extraction of Wheat Residue in the Western Cape. In: Hugo W. (Ed). 2015. South African BioEnergy Atlas. DST, Pretoria, RSA, Section WPO5_04.</i>
License	Creative Commons 4.0 BY SA (No restrictions on re-use, proper citation and attribution required)
Abstract	<p>Data was derived from the following sources:</p> <ul style="list-style-type: none"> * Extent of commercial wheat farming in Western Cape was obtained from the Department of Agriculture of the Western Cape (2014). * On such land, production of wheat was estimated from scaled net primary productivity (Schulze et. al.) with yield estimates applied to recent average (10 year) wheat production in the province, derived from Department of Agriculture Annual Statistics. * Residue production was calculated based on a fixed percentage of the residue - 15% - allowing for soil conditioning (50%) and animal feed (35%).
Keywords	<i>biomass, potential, agriculture, residue, wheat</i>

Caveats	http://bea.dirisa.org/resources/metadata-sheets/WP05_04_META_WRE.pdf
Web Meta-Data	
Web Resource	http://app01.saeon.ac.za:8085/geoserver/WP05/wms?service=WMS&version=1.1.0&request=GetMap&layers=WP05:meso_WRS&styles=&bbox=16.451920000028533,-34.83416989569374,32.892531746697685,-22.125030000001036&width=512&height=395&srs=EPSG:4326&format=application/openlayers

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
AREA	Area cultivated, ha
WRE	Residue harvestable, t/ annum, based on 15% of dry residues

References and Sources

[1]	Schulze, R.E. and Walker, N.J. 2007. Maize 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 16.2.
[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]	Extent of crop farming and typology in the Western Cape, obtained from Department of Agriculture, Elsenburg- 2014
[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