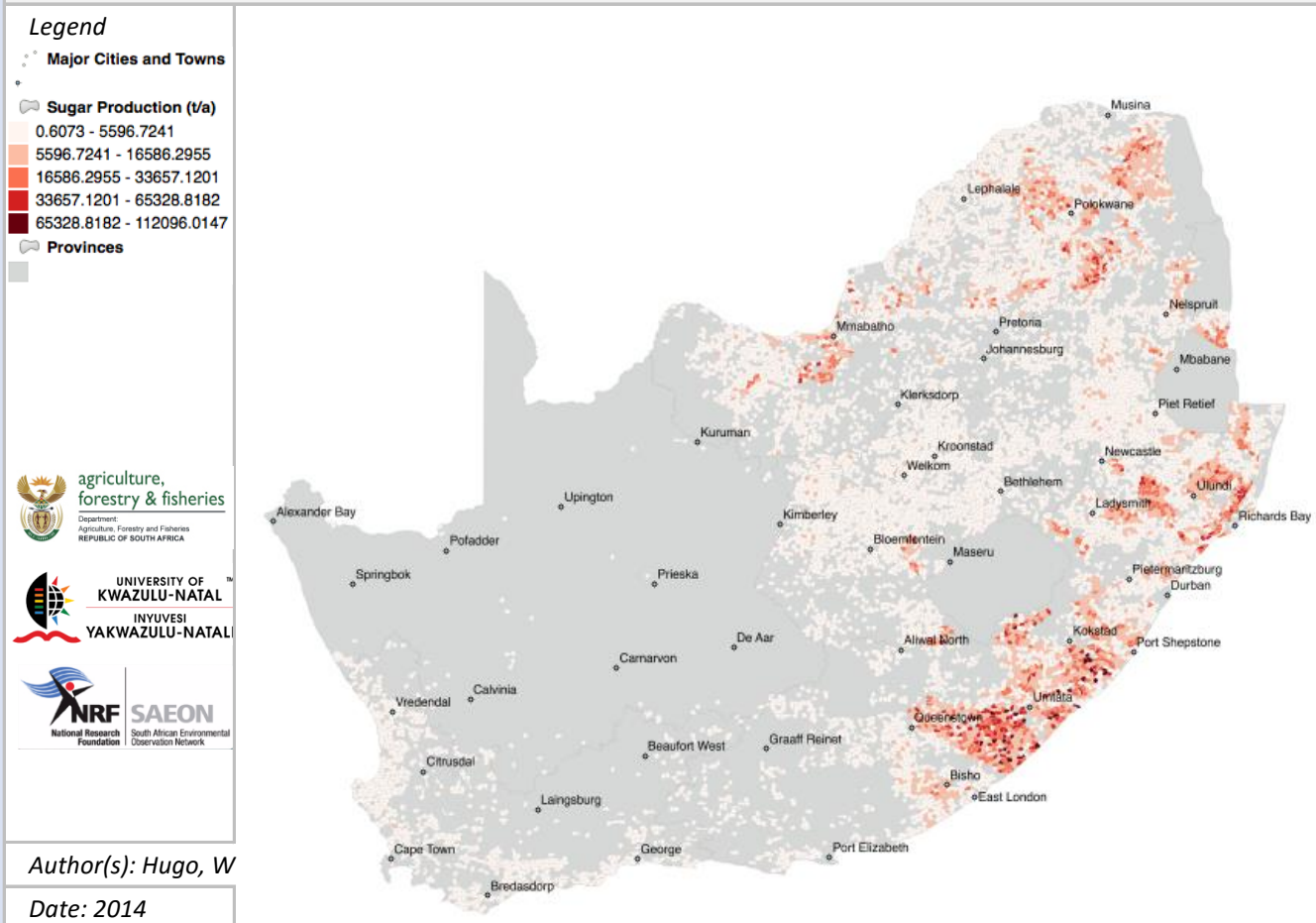


Production of Sugar Cane Sugar on Subsistence and Underutilised Farmland**Meta-Data**

| | |
|-------------------------|--|
| Title | <i>Production of Sugar Cane Sugar on Subsistence and Underutilised Farmland</i> |
| File Name | <i>1_03_SUG.shp</i> |
| Author(s) | <i>Hugo, W</i> |
| Publication Date | <i>2014</i> |
| Citation | <i>Hugo, W, 2014. Excess Sugar Production at Existing Sugar Mills. In: Hugo W. (Ed). 2015. South African BioEnergy Atlas. DST, Pretoria, RSA, Section W03_00.</i> |
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| Abstract | <p>Data was derived from the following sources:</p> <ul style="list-style-type: none"> * Extent of underutilised and subsistence farmland, data obtained from Department of Agriculture, Forestry, and Fisheries. * On such land, Sugar Cane potential was calculated from data published by Schulze, Hull, and Maharaj (2007) on cane-growing potential. * Sugar and Residue production was calculated based on sugar yields, and aggregated to meso-zones for planning and feasibility analysis. * Sugar and Residue (Bagasse) ratios were derived from literature |

| | |
|----------------------|---|
| Keywords | <i>biomass, potential, agriculture, sugar, mills, sugar cane, residue, bagasse</i> |
| Caveats | http://bea.dirisa.org/resources/metadata-sheets/WP03_00_META_SUG.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_SUG&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> |
|------------------------|---------------------------|

Important Attributes

| | |
|---------|---|
| MESO_ID | Meso-zone ID |
| INF_HA | Subsistence and Underutilised farmland in mesozone, ha |
| SUG | Main Product yield, ton/ha/annum |
| SUGAR | Sugar production per zone per annum, tons |
| LIGNO | Ligno-Cellulose Bagasse production per zone per annum, tons |

References and Sources

| | |
|-----|---|
| [1] | Schulze, R.E., Hull, P.J. and Maharaj, M. 2007. Sugarcane 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 16.3. |
| [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 |