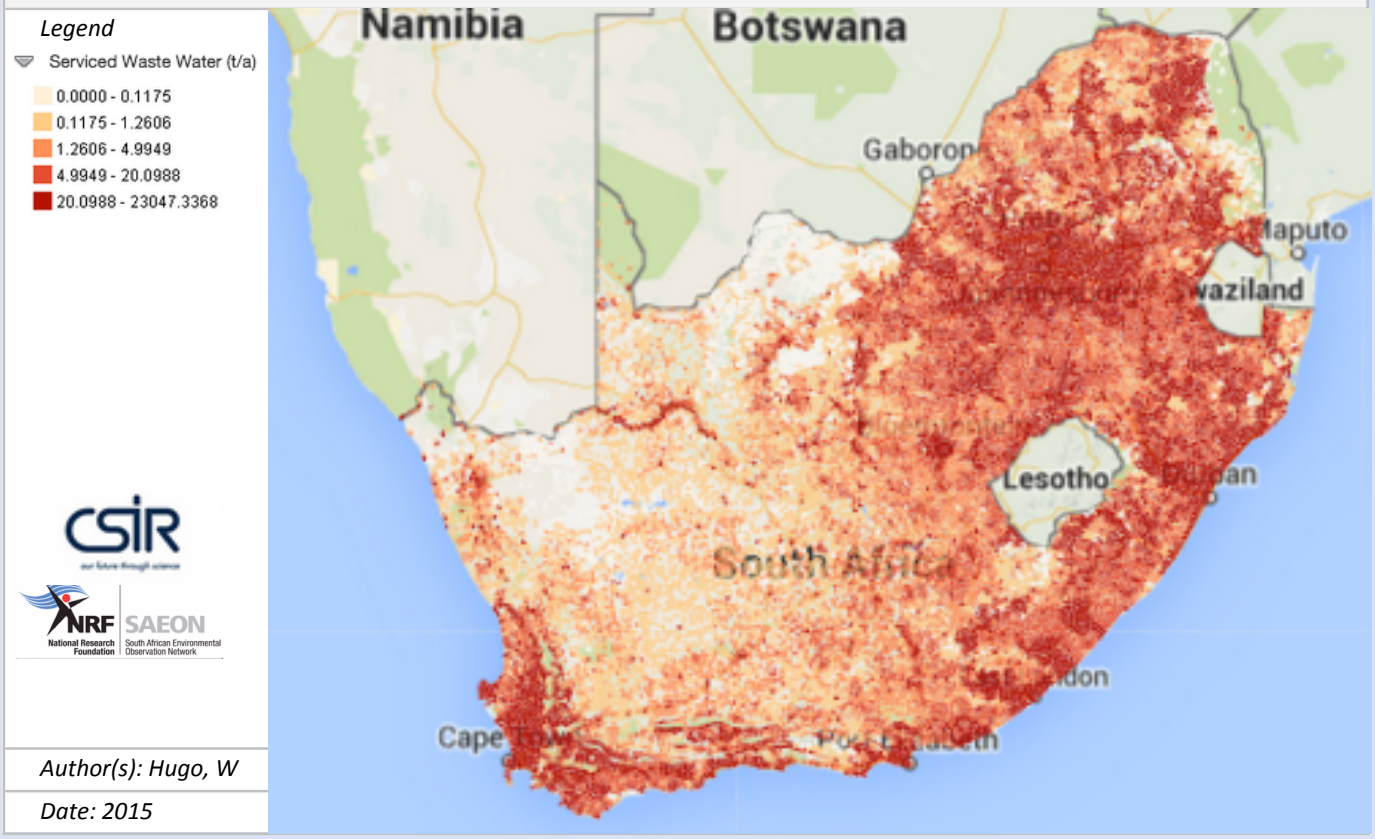
THEME: ORGANIC WASTE	Prepared by: Wim Hugo, SAEON

Serviced Waste Water - Organic Component



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Date: 2015

Meta-Data

Title	*Serviced Waste Water - Organic Component*
File Name	*T_MESO_C*
Author(s)	*Hugo, W*
Publication Date	*2015*
Citation	*Hugo, W, 2014. Serviced Waste Water - Organic Component. In: Hugo W. (Ed). 2015. South African BioEnergy Atlas. DST, Pretoria, RSA, Section WP04_04.*
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Abstract	*Data was derived from the following sources:* ** CSIR was commissioned by the BioEnergy Atlas to assemble known data on solid waste production from household and commercial sources in South Africa. This data was only available at provincial aggregate level, and derives from statistics published by the Department of Water and Sanitation, or recent studies funded by them.* ** Data from StatsSA (Census 2011) enabled the calculation of number of households within each planning zone that were serviced at the time, with the balance unserviced.* ** SAEON developed a model from national and international statistics linking waste water production and composition to household income. This model was used, based on StatsSA Census Data, to estimate the organic component produced by each household per planning zone (mesozone) annually.* ** These factors were used to disaggregate provincial production data, resulting in a value for unserviced and serviced organic watewater from household sources to be calculated for each mesozone.*

Keywords	*biomass, potential, waste water, organic waste*
Caveats	http://bea.dirisa.org/resources/metadata-sheets/WP04_04_META_T_MESO_C.pdf
Web Meta-Data	
Web Resource	*http://app01.saeon.ac.za:8085/geoserver/WP04/wms?service=WMS&version=1.1.0&request=GetMap&layers=WP04:T_MESO_C&styles=&bbox=16.451920000028533,-34.83416989569374,32.892531746697685,-22.125030000001036&width=512&height=395&srs=EPSG:4326&format=application/openlayers*

Methodology/ Protocol

Processing/ Provenance	*As described above*

Important Attributes

MESO_ID	Meso-zone ID
COD	Chemical Oxygen Demand, t/a
POINT_C	COD at Point Sources (Serviced), t/a
DIST_C	COD at Distributed Sources (Unserviced), t/a
SGE	Estimated Organic Sludge, t/a
POINT_S	Sludge at Point Sources (Serviced), t/a
DISTR_S	Sludge at Distributed Sources (Unserviced), t/a
CH4	Estimated CH4 production, m3/a
POINT_M	CH4 at Point Sources (Serviced), t/a
DISTR_M	CH4 at Distributed Sources (Unserviced), t/a
FLOW	Wastewater Flow Estimate, Ml/d

References and Sources

[1]	Stafford, William (2013), "Waste Water: Organic Component and Utilisation", Work Package WP04_01 Commissioned by BioEnergy Atlas.
[2]	StatsSA (2011), "Census 2011 Community Profiles", http://www.statssa.gov.za/Census2011/Products/Census_2011_Metadata.pdf
[3]	Hugo, W (2013), "MODELLED WASTE WATER COMPOSITION AND VOLUME", South African BioEnergy Atlas, DST, Pretoria, South Africa, 2015. Section WP04_04_Risings