
CARBON SINKS ATLAS FOR SOUTH AFRICA

LADA Land Conservation Activities Index

Metadata Date Stamp:

28 February 2017

DATASET DESCRIPTION

File Names:**Data:**

LADA_South_Africa_Conservation_Index_DAFF_Apr2016

Metadata:

LADA_South_Africa_Conservation_Index_DAFF_Apr2016_METADATA

Dataset Reference Date:

April 2016

Data quality:

Good – During the Land Degradation Assessment in Drylands (LADA) project, the South African National Assessment of Land Degradation and Conservation was done between 2008 and 2011. 728 Contributing specialists throughout the country contribute their knowledge and experience on land degradation and sustainable land management during a series of 34 Participatory Expert Assessment Workshops. It is important to notice that the results of these national assessments are qualitative in nature and based on the perceptions of contributing specialists based on the assumption that they all know their respective assessment areas well enough to report on land degradation and conservation attributes. To improve data quality, the same methodology (LADA-WOCAT Mapping Questionnaire (QM)) was used during all 34 PEA Workshops and one facilitator was used to guide the process and ensure terminology and definitions are used in a constant and repeatable way between workshops. During the PEA workshops the principle of consensus mapping was used as guiding principle to ensure good data quality. Assessment results of different assessment groups within a PEA workshop was discussed and calibrated within a bigger plenary session with all the groups present. This helped in calibrating results between mapping units within an assessment area and the facilitator was then responsible to calibrate results between PEA workshops within and between provinces.

Dataset Responsible Party:

Department of Agriculture, Forestry and Fisheries (DAFF), Directorate Land Use and Soil Management, Private Bag X120, Pretoria, 0001. Attention: Scientific Manager: Mr Hein Lindemann e-mail: HeinL@daff.gov.za

Geographic Location of the Dataset: RSA

West: 16.081523

East: 33.484393

North: - 22.098501
South: - 34.709233

Keywords:

LADA, Conservation Index, WOCAT, Degradation, South Africa

Dataset Language:

English (SOUTH AFRICA)

Dataset Character Set:

utf8 - 8 bit UCS Transfer Format

Dataset Topic Category:

007 = Environment (ISO 19115 Topic category)

Data Type:

Shapefile feature class

Format:

ArcGIS Shapefile

Geometry Type:

Polygon

Data Release classification:

Release classification	Description	Time frame	Example
OR	Official release	28 February 2017	LADA_South_Africa_Conservation_Index_DAFF_Apr2016

Citation:

Lindeque, G.H.L., & Koegelenberg, F.A., 2015. *Perceptions on land degradation and current responses to land degradation problems in South Africa: Local Municipality Fact Sheet Series*. Department of Agriculture, Forestry and Fisheries, Pretoria.

Abstract:

Conservation activities are usually a response to land degradation problems and associated with the implementation of a single or combination of conservation measures. The purpose of conservation measures are either to prevent degradation before it occur, as a mitigation measure when full rehabilitation is still possible or for rehabilitation purposes in cases of serious land degradation.

During the Participatory Expert Assessment Workshops, contributing specialists identified for each mapping unit the main conservation groups and measures currently implemented by land users to address or respond to land degradation problems. As for the degradation assessment, variables describing these conservation measures were also combined to develop

a unique Conservation Index (CI). Variables used were the extent of conservation measures implemented, the level of effective implementation of these measures, the effectiveness trend of these measures over time (last 10 years) and the level of impact of these conservation measures on ecosystem services. The CI values range from 0 to 100, for each mapping unit as defined by the LADA Land Use Map for South Africa. The higher the CI value, the more conservation measures are in place, the more effective they are, and the better the situation.

Purpose:

This data was made available for the online Carbon Sinks Atlas courtesy of Department of Agriculture, Forestry and Fisheries (DAFF). The purpose of including the data into the Carbon Atlas was to generate awareness on the state and severity of land degradation in South Africa as a direct driver of lowering soil carbon sink levels.

Supplemental Information:

None

Lineage Statement:

None

ATTRIBUTE INFORMATION

Field name	Data type	Description	Example
DI	Double	This field contains values of the Conservation index between 0 and 100 Class Intervals: < 34.08 Very Poor 34.08 – 44.50 Poor 44.51 – 52.83 Moderate 52.84 – 62.0 Good > 62 Very Good	47.91

SUPPLEMENTARY INFORMATION

None

DATA MAINTENANCE

Dataset last updated:

February 2017

Time Period of Content:

2008-2011

Maintenance and update frequency:

No updates.

DISTRIBUTION AND CONSTRAINTS

On/line Resource:

The South African Environmental Observation Network (SAEON)
<http://www.saeon.ac.za/>

Distribution Format:

ArcGIS shapefile

Copyright:

Department of Agriculture, Forestry and Fisheries (DAFF), Directorate Land Use and Soil Management, Private Bag X120, Pretoria, 0001. Attention: Scientific Manager: Mr Hein Lindemann e-mail: HeinL@daff.gov.za

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Acknowledgments:

None

METADATA INFORMATION

Metadata Contact and owner of data:

Hein Lindemann
DAFF: Directorate Land Use and Soil Management
HeinL@daff.gov.za

Postal Address:

Department of Agriculture, Forestry and Fisheries (DAFF),
Directorate Land Use and Soil Management,
Private Bag X120,
Pretoria,
0001

Physical Address:

Department of Agriculture, Forestry & Fisheries (DAFF)
Directorate Land use & Soil Management
NRIA Division
Delpen Building – Room 282
Cnr. Annie Botha & Union streets
Riviera
0084

Additional Extent information for the Dataset (Vertical & Temporal):

N/A

Spatial Representation Type:

Polygon - Area

Spatial Reference:

Coordinate Reference: GCS_WGS_1984
Projection - Albers_Conic_Equal_Area

Projection:

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    DATUM["D_WGS_1984",  
      SPHEROID["WGS_1984",6378137,298.257223563]],  
    PRIMEM["Greenwich",0],  
    UNIT["Degree",0.0174532925199433]],  
  PROJECTION["Albers"],  
  PARAMETER["False_Easting",0],  
  PARAMETER["False_Northing",0],  
  PARAMETER["central_meridian",24],  
  PARAMETER["Standard_Parallel_1",-18],  
  PARAMETER["Standard_Parallel_2",-32],  
  PARAMETER["latitude_of_origin",0],
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Metadata File Identifier:

LADA_South_Africa_Conservation_Index_DAFF_Apr2016_METADATA

Metadata Standard Name:

SANS 1878

Metadata Standard Version:

SANS 1878/1:2005

Metadata Language:

English

Metadata Character Set:

US/Ascii