Integrated Vegetation Dataset (2009)

Citation

Title
Integrated Vegetation (2009). Version 1.

Publication date
2012.
Date Type: publication

Product custodian
Resource responsible party: Australian Bureau of Agricultural and Resource
                                   Economics and Sciences (ABARES)
Organization: DAFF: ABARES: Land and Forests Branch
Position name: Scientist
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Description

Abstract
The Integrated Vegetation Cover (2009) dataset represents vegetation cover across
Australia and, was completed by ABARES. This dataset was developed to assess
and report on the type and extent of native, non-native and non-vegetated cover
types across the whole landscape.

The dataset has 12 attribute classes: native forests and woodlands; native
shrublands and heathlands ; native grasslands and minimally modified pastures;
horticultural trees and shrubs; perennial crops; annual crops and highly modified
pastures; plantation (hardwood); plantation (softwood/mixed); bare; ephemeral and
permanent water features; built-up; and unknown/not reportable.

This dataset has been developed to provide a single authoritative dataset of
Australia's vegetation by integrating the best avialable datasets on native vegetation,
cropping, plantations, water bodies and urban areas using a consistent agreed
national classification system. It provides accurate and up-to-date reporting of the
extent of Australia's vegetation and contributes to effective planning and use of
Australian vegetation by providing information on vegetation types, where they are
found and how they are used.

Search word(s)
VEGETATION; VEGETATION EXTENT, INTEGRATED VEGETATION;
VEGETATION Classification; VEGETATION Mapping; LAND Cover; LAND Cover
Classification; LAND Cover Mapping.

Spatial info

Geographic Extent Name (GEN)

GEN Category: Australia
GEN Custodial Jurisdiction: Australia
GEN Name: Integrated vegetation 2009

Geographic Bounding Box

North   -9.034204
South   -44.318646
East   157.215737
West   109.504356

Projection
GDA 1994 Albers

Data Currency

Beginning Date: 15 January 2008
Ending Date: 2 June 2009

Data Status

Progress: Complete
Maintenance and Update Frequency: Irregular

Access

Available Format:
Format name: Spatial digital ArcGIS version 9.3.1
Format version: 9.3.1
Access Constraints: Access is unrestricted. Users of the data set are asked to
                     acknowledge, in any visual or published material, that it
                     was derived and compiled by ABARES and to make
                     known to ABARES any errors, omissions or suggestions
                     for improvement.

Cell size   100 x 100 metre

Data Quality

Lineage
The vegetation data has been derived from various sources and is shown in
simplified form in 10 vegetation-cover classes: native forests and woodlands; native
shrublands and heathlands; native grasslands and minimally modified pastures;
annual crops and highly modified pastures; plantation (hardwood); plantation
(softwood/mixed); bare; ephemeral and permanent water; built-up; unknown/not
reportable. The national vegetation cover data was derived from a number of
national datasets with re-sampling to 100-metre grids and projected to Albers equal
area if required. The integrated vegetation grid was derived using a conditional
statement weighing each input grid in the order of the

vegetation-cover classes listed above.

Input datasets were collated and converted to a standard spatial and attribute format. Inputs were then integrated into a single output using precedence rule set to determine the order in which the input values were combined. A seven-step rule set was used to integrate the five input datasets. The priority ranking for integrating the datasets from highest to lowest is as follows:1) Built-up and water; 2) Plantations; 3) Native Forests and Woodlands; 4) Non-forest native vegetation; 5) Non-native vegetation and non-vegetated cover; 6) Horticultural trees; 7) Non-native vegetation and non-vegetated cover.

The national vegetation cover data was derived from a number of national datasets with re-sampling to 100-metre grids and projected to Albers equal area if required. The integrated vegetation grid was derived using a conditional statement weighing each input grid in the order of the vegetation-cover classes listed above.

The input datasets are
- Forests datasets (2007) (values 1, 7 and 8)
- National Plantation Inventory (2006, 2007)
- NVIS (National Vegetation Information System) 3.1 (values 2 and 3)
- Catchment Scale Land Use Mapping for Australia (as at April 2009),
- Any remaining No data areas were filled with the Integrated Vegetation 2008 dataset.

Coverage is complete for continental Australia with approximately 2% falling in the 'no data/not reportable' class.
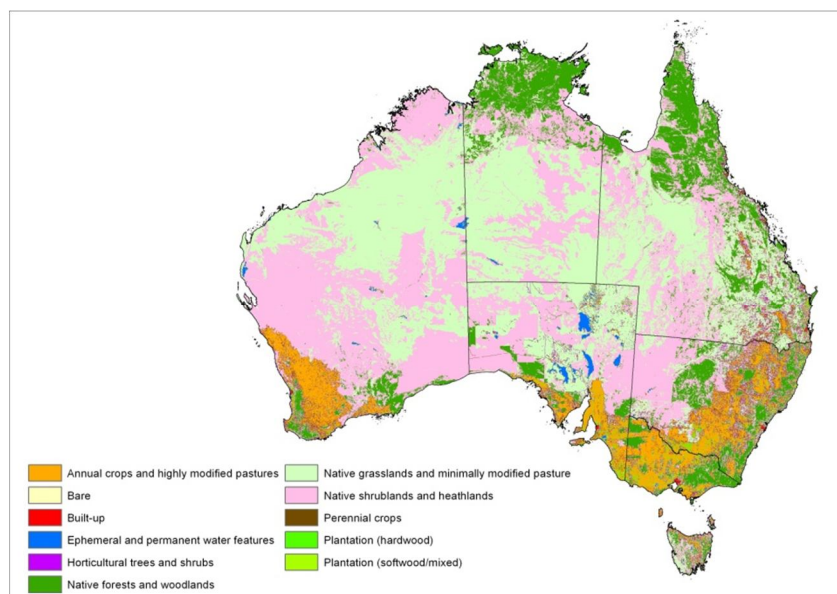
Positional Accuracy   Positional accuracy varies depending on the input dataset. Digital boundaries are considered to be accurate to approximately 100 metres.

Attribute Accuracy   Accuracy of Integrated Vegetation classes based on the conversions outlined in the lineage section is expected to be high.

Logical Consistency   Full

Completeness   Majority. Coverage is complete for continental Australia with approximately 2% falling in the 'no data/not reportable' class.

Overview

Legend:
- Annual crops and highly modified pastures
- Bare
- Built-up
- Ephemeral and permanent water features
- Horticultural trees and shrubs
- Native forests and woodlands
- Native grasslands and minimally modified pasture
- Native shrublands and heathlands
- Perennial crops
- Plantation (hardwood)
- Plantation (softwood/mixed)

Contact Information

Contact Organisation: Australian Bureau of Agricultural and Resource Economics and Sciences (ABARES)

Position name: ABARES Data Manager
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State: ACT
Country: Australia
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Metadata Information
Metadata Date: 29 March 2012

Additional Metadata
Nil

Presentation forms
Document and Digital

Constraints
Licensing: copyright

Other constraints: The dataset is not recommended for subregional analyses because of the coarse resolution of mapping and different mapping methodologies and data currencies. Methodology and general accuracy limits the ability of this data to truly represent either 1) the extent of the exotic plant species identified and 2) the actual risk posed by any particular plant (present or absent in the list).

Security

Material used to generate this product

Source 1
Title: Forest datasets
Date: 2007
Date type: publication
Source responsible party: Land and Forests Branch
Organisation: ABARES
Responsible party role: custodian

Source 2
Title: Catchment Scale Land Use Mapping for Australia,
Date: as at April 2009
Date type: creation
Source responsible party: Land and Forests Branch
Organisation: ABARES
Responsible party role: custodian

Source 3
Title: NVIS (National Vegetation Information System) 3.1
Date: 2007
Date type: creation
Source responsible party: Environmental Resources Information Network (ERIN)
Organisation: Department of Sustainability, Environment, Water, Population and
                Communities (SEWPaC)
Responsible party role: custodian

Source 4
Title: National Plantation Inventory
Date: 2006 and 2007
Date type: Creation
Source responsible party: Land and Forests Branch
Organisation: ABARES
Responsible party role: custodian

Source 5
Title: Integrated Vegetation 2008
Date: 2008
Date type: Creation
Source responsible party: Land and Forests Branch
Organisation: ABARES
Responsible party role: custodian