

Metadata Statement



Metadata_ID: ANZWA1050000123

Department of Agriculture, Western Australia

Data Theme: Pre-European Vegetation Theme

Title: Pre-European Vegetation - Western Australia (NVIS Compliant version)

Custodian: Department of Agriculture Western Australia

Jurisdiction: Western Australia

Abstract: A comprehensive database of the vegetation of the State has been developed. This is a State-wide coverage at the scale of 1:250,000 based on the work of J S Beard, supplemented where necessary to give a uniform standard of mapping detail.

The database includes map linework as design files in a Geographic Information System (GIS), and tabular data about the vegetation in each of the map polygons in ORACLE tables linked through a Data Base Management System (DBMS). There are *c* 30,000 polygons covering 160 1:250,000 map sheets.

Data on the original vegetation of all of Western Australia, with the exception of three map sheets in the south-west corner, were captured from J S Beard's original working drawings, where these were available, or from published maps, all at the scale of 1:250,000. For the three map sheets in the south-west corner, a new data set was compiled in a form consistent with Beard's approach, from existing data (A.J.M. Hopkins, unpublished).

This version updates two previous versions (metadata dates 08/09/2003 and 29/04/2004).

The version corresponding to metadata date 29/04/2004 significantly revised the long-standing previous version. The following revisions of the original were made:

- Rectification of the dataset to topographic features from the State topographic dataset (primarily using the coastline and lakes),
- Correction of dataset attribution of on mapsheet edges,
- Correction of boundaries to some map units,
- Creation of a new Vegetation Systems map (based on 1:250,000 map unit boundaries) that forms a scale hierarchy with the 1:250,000 scale map units and IBRA (Interim Biogeographic Regionalisation of Australia, Thackway & Cresswell eds. 1995) regions and sub-regions.

The result of this process was a dataset that is more spatially accurate than the original and allows the integration of more detailed attribute data. Attribute data have been compiled in accordance with the Australian Vegetation Attributes (Version 6.0) making the attributes compliant with the National Vegetation Information System (NVIS).

The current version is merged on the attribute SYSTEM_ASSOCIATION and includes further spatial corrections – principally to remove slivers and unattributed gaps. These were processed to an accuracy of 1 millimetre.

Search Words(s): Vegetation type, National Vegetation Information System (NVIS), Western Australia

Geographic Extent: Western Australia

Beginning Date: 1986

Ending Date: February 2005

Progress: Completed

Update Frequency: Non-planned

Stored Data Formats: Geomedia Access data warehouse and Arc View Shape files

Available Data Formats: Geomedia data warehouse and Arc View Shape files

Access Constraint: License on request

Lineage: Pre-European vegetation mapping is based on the project by A.J.M. Hopkins, G.R. Beeston, J.M. Harvey (2000). A database on the vegetation of Western Australia. Stage 1. Unpublished. The major sources of data in this database are the published and unpublished mapping of J.S. Beard at 1:250,000 scale. Mapping of the south - west corner was compiled by A.J.M. Hopkins from various sources. The current version includes some sliver polygons.

Positional Accuracy: Original mapping was done on controlled aerial photo-mosaics scale 1:63:360 for the south-west and 1:100,000 (some of which were uncontrolled photo-indexes) for the remainder of the State. This was photo-reduced to a scale of 1:250,000 in the south-west and 1:1:000,000 for the rest of the State for compilation. The original photo reduced maps on acetate sheets were digitised using Microstation and attributed in the Modular GIS Environment (MGE) at the Department of Agriculture. The dataset has subsequently been transferred to Geomedia Access Data warehouse and ORACLE Spatial data formats.

Attribute Accuracy: Original mapping was carried out by plotting interpretations from field traverses onto the aerial photo-mosaics. Coded map polygon attribution from the original photo-reduced acetate plots was captured in the CAD and GIS environments described above. The current version of the dataset includes correction of original mapping errors and attribute capture errors.

Logical Consistency: The dataset has been checked for errors and edge-matched where possible. Some edge matching issues remain, but these are of a botanical nature and cannot be resolved without re-mapping.

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Metadata Date: 14 February 2005

Metadata Statement



Metadata_ID: ANZWA1050000124

Department of Agriculture, Western Australia Vegetation Theme Metadata – Vegetation Extent

Title: Vegetation extent - Western Australia

Custodian: Agriculture Western Australia and Conservation and Land Management

Jurisdiction: Western Australia

Abstract: A data set containing vegetation extent polygons from the mapping of remnant vegetation in Western Australia. This was originally compiled as part of the vegetation theme of the National Land and Water Resource Audit (NLWRA). The data for the intensive land-use zone (ILZ) in south-western Australia was originally derived from 1995 LandSat TM satellite imagery and has been corrected using digital aerial photography (orthophotos) acquired 1996 to 1999. The extensive land-use zone (ELZ) is presumed to carry vegetation cover except for the major irrigated areas at Kununurra and Carnarvon. These have been removed from extent mapping for the ELZ. The dataset has been progressively updated by the Department of Agriculture post-NLWRA with assistance the Department of Conservation and Land Management. Mapping has recently been updated to 1:20,000 using digital orthophotography.

Search Words(s): Vegetation extent, Western Australia

Geographic Extent : South-Western Australia

Beginning Date: 1995

Ending Date: April 2006

Progress: Completed

Update Frequency: As required

Stored Data Formats: Geomedia Access Warehouse

Available Data Formats: Geomedia Access Warehouse and Arc View Shape files

Access Constraint: License on request

Lineage: The data for the intensive land-use zone (ILZ) in south-western Australia was originally derived from 1995 LandSat TM satellite imagery and has been corrected using digital aerial photography (orthophotos) acquired since 1996. The extensive land-use zone (ELZ) is presumed to carry vegetation cover except for the major irrigated areas at Kununurra and Carnarvon. These have been removed from extent mapping for the ELZ. Edge matching for ILZ and ELZ datasets was conducted for the NLWRA to a tolerance of six metres. Plantation for harvesting were removed from the vegetation extent by CALM at the conclusion of the original dataset production. The resultant dataset has been progressively updated by the Department of Agriculture post-NLWRA with assistance the Department of Conservation and Land Management.

Mapping has recently been updated to 1:20,000 using digital orthophotography. The following images were used:

Augusta94.ecw (acquired April 2000, Accuracy +/- 10m)

Bridgetown_Mosaic.ecw (acquired April, May 2001, Accuracy +/- 5m)

Bunbury_2031_Apr_May_Jun_2003_Mosaic.ecw (acquired April, May 2003, Accuracy +/- 5m)

Busselton_Mosaic.ecw (acquired April, May 2001, Accuracy +/- 5m)

Collie_2131_Apr_May_2003_Mosaic.ecw (acquired April, May 2003, Accuracy +/- 5m)

Darkan_2231_Apr_May_Jun_2003_Mosaic.ecw (acquired April, May, June 2003, Accuracy +/- 5m))

Dinninup_Mosaic.ecw (acquired April and November 2001, Accuracy +/- 5m)

Donnelly_2029_Dec_2004_Mosaic.ecw (acquired December 2004, Accuracy +/- 10m)

Donnybrook_Mosaic.ecw (acquired April, May 2001, Accuracy +/- 5m)
Manjimup_2129_Dec_2004_Mosaic.ecw (acquired December 2004, Accuracy +/- 10m)
Metro_North_West_2005_Mosaic.ecw (acquired December 2004, Accuracy +/- 4m)
Metro_South_West_2005_Mosaic.ecw (acquired December 2004, Accuracy +/- 4m)
Metro_North_East_2005_Mosaic.ecw (acquired December 2004, Accuracy +/- 4m)
Metro_South_East_2005_Mosaic.ecw (acquired December 2004, Accuracy +/- 4m)
Tonebridge_2229_Apr_2000_Mosaic.ecw (acquired April 2000, Accuracy +/- 10m)
Meerup_2028_Dec_2004_Mosaic.ecw
Northcliffe_2128_Dec_2004_Mosaic.ecw
Pallinup_Cheyne_Mosaic.ecw (acquired December 1998, Accuracy +/- 10m)
pembSeast.ecw
Perth Metropolitan Regional Scheme area (acquired December 2001, Accuracy +/- 4m)

Positional Accuracy: See notes under Lineage for individual digital orthophoto sources used.

Attribute Accuracy: Vegetation extent mapping was checked against digital orthophotography acquired post 1995. The mapping is suitable for use between 1:20,000 and 1:100,000 in the ILZ depending on the area mapped. Areas mapped from the orthophoto images listed under Lineage are suitable for use at 1:20,000. All other areas are suitable for use at 1:100,000.

Logical Consistency: Vegetation mapping was checked against field survey records for gross omissions.

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Metadata Date: 1 May 2006