

# Catchment Scale Land Use Mapping for Australia – Update November 2012

## Citation

### Title

Catchment Scale Land Use Mapping for Australia Update November 2012 (CLUM Update 11/12) dataset

### ANZLIC Identifier

### Custodian

Australian Bureau of Agricultural and Resource Economics and Sciences (ABARES)

### Jurisdiction

Australia

## Description

### Abstract

The most current catchment scale land use dataset for Australia has been compiled using nationally agreed land use mapping principles and procedures of the Australian Land Use and Management (ALUM) Classification version 7. The land use datasets were collected as part of State and Territory mapping programs and the Australian Collaborative Land Use and Management Program (ACLUMP). The data vary in currency (1997 to 2009) and scale (1:25,000 to 1:250,000).

The updated dataset is a combined 50m raster for Australia and includes new data for Tasmania, Victoria, parts of southwest Western Australia and the following Queensland natural resource management regions: Wet Tropics, Burdekin, Mackay-Whitsunday, Burnett Mary and Fitzroy. While there is no new data for New South Wales, edge-matching errors have been corrected.

All contributing polygon datasets were re-gridded and mosaiced to minimise resampling errors. NODATA voids were filled with Australian Bureau of Statistics meshblocks land use attributes with modifications based on 1:250,000 scale topographic data for built up areas published by Geoscience Australia in 2006, land tenure data compiled by the Bureau of Rural Sciences (BRS) in 2007, and native and plantation forest data compiled by BRS in 2007.

Metadata for contributing datasets is available from the data custodians on request. Table 1 lists the datasets used to create the national dataset.

### Search word(s)

LAND Use Maps; LAND Use Classification; AGRICULTURE Mapping; LAND Surveys

### Spatial Domain

#### Geographic Extent Name (GEN)

GEN Category: Australia

GEN Custodial Jurisdiction: Australia  
GEN Name: AUSTRALIA EXCLUDING EXTERNAL TERRITORIES

### **Geographic Bounding Box**

North Bounding Latitude: -9  
South Bounding Latitude: -45  
East Bounding Latitude: 158  
West Bounding Latitude: 109

## **Data Currency**

**Beginning Date** 1997  
**Ending Date** November 2012 (Data provided as at November 2012 with actual currency of most recent data being 2009 – see Figure 1)

Dates of the land use mapping vary across the country depending on when states/catchments/map sheets were mapped.

## **Data Status**

**Progress** In Progress  
**Maintenance and Update Frequency** Continual

## **Access**

**Stored Data Format:** ESRI Grid  
**Available Format:** ESRI Grid  
**Access Constraints:** See individual dataset metadata

## **Data Quality**

### **Lineage**

Catchment scale mapping is produced by combining land tenure and other types of land use information, fine-scale satellite data and information collected in the field. Mapping from many State and Territory agencies are combined and gridded at 50m.

### **Positional Accuracy**

The scale of the source data varies from 1:25,000 to 1:250,000. See individual land use mapping dataset metadata for specific measures of accuracy. See Figure 2 for the resolution of the mapping across the country.

### **Attribute Accuracy**

Figure 1 shows that the data currency across Australia ranges from 1997 to 2009. Previous catchment scale land use metadata indicated that all NSW datasets were current to 2006. NSW data currency ranges from 1999 to 2006.

The methods for mapping and classifying land use adhere to the standards outlined in the document "Guidelines for land use mapping in Australia: principles, procedures and definitions, Edition 4", published by the ABARES. Specifically, the attributes adhere to the ALUM classification, version 7.

### **Logical Consistency**

All input polygon datasets were checked for topological consistency.

### **Completeness**

Complete (NODATA voids were filled with Australian Bureau of Statistics meshblocks land use attributes).

## **Contact Information**

<b>Contact Organisation</b>	Australian Bureau of Agricultural and Resource Economics and Sciences (ABARES)
<b>Contact Position</b>	Land Use manager
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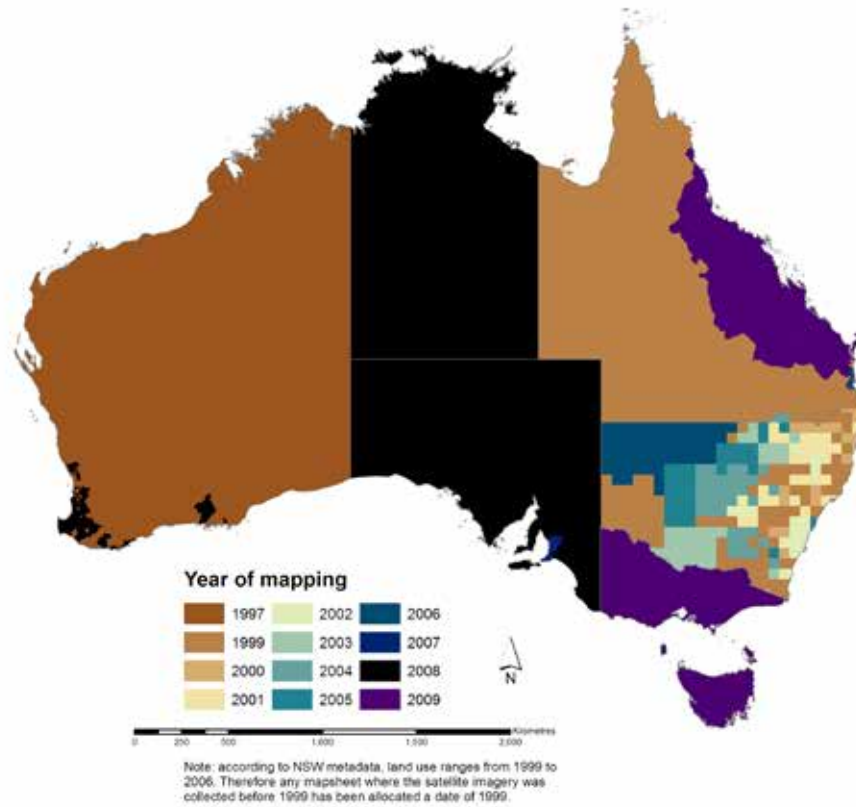
## **Metadata Information**

**Metadata Date:** 29/11/2012

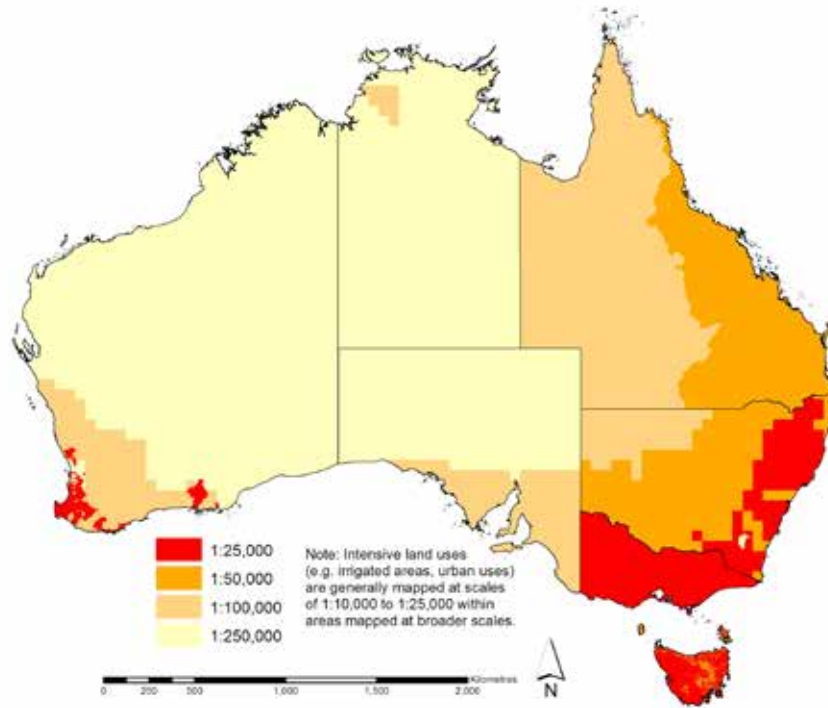
### **Additional Metadata**

Most contributing datasets have their own individual metadata reports which are available from the data custodians on request. See Table 1 for contact details.

**Figure 1.** Date of updated catchment scale land use mapping



**Figure 2.** Scale of updated catchment scale land use mapping



**Table 1.** Datasets used to create the CLUM Update 11/12 Dataset (more current datasets took precedence over older datasets where areas overlapped).

State	Dataset	Region	Year
<p>New South Wales</p> <p>Contact details:</p> <p>Richard Hicks Office of Environment and Heritage Phone: (02) 6883 6501 richard.hicks@environment.nsw.gov.au</p>	<p>Albury, Araluen, Arumpo, Balranald, Batemans Bay, Bathurst, Bega, Berridale, Bidura, Blayney, Bombala, Bonalbo, Bono, Boolaboolka, Boorowa, Brindabella, Broken Hill, Buckalow, Bulahdelah, Bunda, Bunnerungee, Camden Haven, Carrai, Coaldale, Coolah, Coonabarabran, Cootamundra, Corryong, Cowarral, Cowra, Craigie, Curlewis, Cuthero, Darnick, Dorrigo, Drake, Dungog, Eden, Gilgandra, Goondiwindi, Gosford, Gunning, Hatfield, Holbrook, Howes Valley, Jacobs River, Kempsey, Kosciusko, Lake Macquarie, Lake Tandou, Lake Victoria, Lightning Ridge, Lindsay, Lockhart, Manfred, Merriwa, Mendooran, Menindee, Merriwagga, Middle Camp, Mildura, Molong, Mulurulu, Narran, Narrandera, Narromine, Nartooka, Newton Boyd, Nowingi, Numbla, Oberon, Orange, Paika, Para, Pooncarie, Popiltah, Rankins Springs, Redan, Robinvale, Scotia, Rosewood, Tallangatta, Tambar Springs, Tamworth, Tantangara, Teryawynia, Texas, Thackaringa, Turlee, Ungarie, Walbundrie, Wallerawang, Warwick, Weimby, Wentworth, Wilcannia, Wild Dog, Wingham, Wyalong, Yarrangobilly, Yarrowitch, Yetman</p>	<p>1:100,000 Mapsheets</p>	<p>1999</p>
	<p>Ashford, Ballina, Bare Point, Braidwood, Camberwell, Cessnock, Clive, Coffs Harbour, Crookwell, Croppa Creek, Grafton, Gulgong, Lismore, Macksville, Mount Lindesay, Mudgee, Murwillumbah, Nambucca, Stanthorpe, Taralga, Tenterfield, Tweed Heads, Yallaro</p>	<p>1:100,000 Mapsheets</p>	<p>2000</p>
	<p>Armidale, Bellata, Bingara, Blackville, Boggabri, Bunarba, Bundarra, Bunna Bunna, Cobbadah, Dubbo, Ebor, Ellerston, Euchareena, Glen Innes, Grenfell, Guyra, Inverell, Kiama, Manilla, Marsden, Mount Pomany, Murrurundi, Newcastle, Port Stephens, St Albans, Tullamore, Upper Manning, Wellington, Woodburn</p>	<p>1:100,000 Mapsheets</p>	<p>2001</p>
	<p>Bendemeer, Bogan Gate, Burragorang, Cobargo,</p>	<p>1:100,000</p>	<p>2002</p>

	Condobolin, Goulburn, Horton, Jervis Bay, Katoomba, Moss Vale, Narooma, Nundle, Parkes, Penrith, Ulladulla, Wollongong	Mapsheets	
	Ardlethan, Baan Baa, Baradine, Bendoc, Berrigan, Buraja, Cohuna, Coleambally, Conargo, Cumborah, Dry Lake, Dungalear, Dunumbral, Echuca, Gravesend, Griffith, Bunbar, Gwabegar, Hay, Jerilderie, Koroongal, Mathoura, Moggumbill, Moulamein, Narrabri, Nyah, One Tree, Oxley, Pilliga, Swan Hill, Tuppal, Urana, Wanganella, Wee Waa, Yanco	1:100,000 Mapsheets	2003
	Barmedman, Bobadah, Boomi, Boona Mount, Bundemar, Burrenbar, Canbelego, Canonba, Cargelligo, Cobar, Cobbora, Coolamon, Cooma, Dandaloo, Gindoono, Glenaridd, Gongolgon, Hermidale, Hillston, Junee, Kilparney, Lachland Downs, Michelago, Mount Allen, Mount Harris, Nymagee, Nyngan, Peak Hill, Sussex, Tarcutta, Temora, Tenandra, Tottenham, Tullibigeal, Tumut, Wagga Wagga, Warren, Yass, Young	1:100,000 Mapsheets	2004
	Baden Park, Barnato, Booligal, Booroondarra, Carinda, Collarenebri, Conoble, Coolabah, Coombie, Coonamble, Culpataro, Geera, Gulargambone, Hermidon, Innesowen, Ivanhoe, Keewong, Kilfera, Mogil Mogil, Moree, Mossgiel, Muckerumba, Neckarboo, Nelyambo, Port Hacking, Quambone, Sydney, The Meadows, Walgett, Willandra, Woolakulkra,	1:100,000 Mapsheets	2005
	Canberra	1:100,000 Mapsheet	2006
	New South Wales	Remainder of state (northwest)	2006
Northern Territory  Contact details:  Kathleen Richardson	Northern Territory	State	2008

Department of Natural Resources, Environment, the Arts and Sport Phone: (08) 8999 4571 Kathleen.Richardson@nt.gov.au			
Queensland  Contact details:  Craig Shephard Department of Science, Information Technology, Innovation and the Arts Phone: (07) 3170 5664 craig.shephard@derm.qld.gov.au	Burdekin	Natural resource management region	2009
	Burnett Mary	Natural resource management region	2009
	Fitzroy	Natural resource management region	2009
	Mackay-Whitsunday	Natural resource management region	2009
	Wet Tropics	Natural resource management region	2009
	Maroochy	Catchment	2006
	Pine	Catchment	2006
	Queensland	State	1999
South Australia  Contact details:  Giles Forward Department of Environment, Water and Natural Resources	Adelaide and Mount Lofty Ranges	Natural resource management region	2007
	South Australia	State	2008



Phone: (08) 8303 9450 Giles.Forward@sa.gov.au			
Tasmania  Contact details:  Rhys Stickler Department of Primary Industries, Parks, Water and Environment Phone: 63365276 Rhys.Stickler@dpipwe.tas.gov.au	Tasmania	State	2009
Victoria  Contact details:  Elizabeth Morse-McNabb Department of Primary Industries Phone: (03) 5430 4313 Email: elizabeth.morse- mcnabb@dpi.vic.gov.au	Victoria	State	2009
Western Australia  Contact details:  Heather Percy Department of Agriculture and Food Phone: (07) 3170 5624 Heather.Percy@agric.wa.gov.au	Albany Area	Albany region	2008
	Whicher Area	South west WA	2008
	Esperance Area	Esperance region	2008
	Swan Area	Swan region	2008
	Western Australia	State	1997