Title	Draft NSW Biodiversity Strategy 2010-2015 Priorities	
Alternative title(s)	Priorities for Investment in Native Vegetation Management	
Abstract	To maximise outcomes for biodiversity over such a large area like NSW, decisions on where to invest need to be made carefully. In response to this, the NSW Government developed a set of draft Priority Areas for investment in native vegetation management as part of the draft NSW Biodiversity Strategy 2010-2015. State scale priorities for investment are presented in the Priority Areas Map in Part A of the draft Strategy. The draft Strategy divides the ecosystems of NSW based on 15 formations described by Keith (2004), and all have been mapped with the exception of 'Arid Acacia Shrublands', 'Arid Chenopod Shrublands', 'Rivers', 'Marine Waters', 'Estuaries and Coastal Lakes' and 'Freshwater Wetlands'. Part B of the draft Strategy presents Priority Areas for each in a series of 15 'ecosystem profiles'. The prioritisation was undertaken using the Biodiversity Forecasting Toolkit (BFT) (NSW DEC 2006), a decision-support system developed by NSW DEC for evaluating biodiversity outcomes and for mapping biodiversity management priorities. Technical detail to support this statement can be obtained from:	
	DECCW (2010) Deriving Priority Areas for Investment: A Technical Report to accompany the draft NSW Biodiversity Strategy	
	This statement describes the data and processes used to produce two interim products to assist the public exhibition of the draft NSW Biodiversity Strategy (2010-15):	
	1) the derivation of proposed State scale priorities for investment in native vegetation management in NSW; and	
	2) description of those priorities according to the Keith (2010) vegetation classification.	
	The proposed State scale priorities are described in detail in the draft NSW Biodiversity Strategy 2010-2015. It had been planned that the proposed priorities were subject to comment during public exhibition, and a final version was to follow subject to review of comments received on the draft Strategy. The Strategy was never finalised. The Priority Areas were developed to inform the former CMAs (now LLS) Catchment Action Plans that identified priorities for NRM. LLS don't do these Plans anymore. Several meetings were held with NPWS on how they could use the priorities to inform investment in rehab/reveg in NPWS reserves and how it related to an analysis that Andrew Steed had done.	
	This spatial data is in the format of Esri GRID in Lamberts Conic Conformal projection.	
Resource locator		
<u>Data Quality</u> <u>Statement</u>	Name: Data Quality Statement Protocol: WWW:DOWNLOAD-1.0-httpdownload Description: Data quality statement for NSW Biodiversity Strategy 2010-2015 Priorities Function: download	
Biodiversity BiodiversityStrategy LCC	Name: Biodiversity BiodiversityStrategy LCC	
	Protocol: WWW:DOWNLOAD-1.0-httpdownload Function: download	
Unique resource id		
Code	0acb62d5-368f-4525-8c5c-2b46aad624b5	
Presentation form	Document digital	
Edition	01/01/2015	

Dataset language	English	
Metadata standard		
Name	ISO 19115	
Edition	2016	
Dataset URI	https://datasets.seed.nsw.gov.au/dataset/0acb62d5-368f-4525-8c5c-2b46aad624b5	
Purpose	The proposed priorities are intended to be used by Catchment Management Authorities and other natural resource managers to identify landscapes with highest priority for investment to manage native vegetation where greatest biodiversity benefit can be obtained by improving condition. The mapping is intended to be viewed at 1:250,000 scale, and is not designed to be accurate beyond 100-1,000 m. For example, the mapping would require on ground validation and interpretation before it could be applied at property scales.	
Status	Completed	
Spatial representation type	grid	
Spatial reference system		
Code identifying the spatial reference system	4283	
Spatial resolution	10 m	
Additional information source	DECCW (in prep.) Deriving Priority Areas for Investment: A Technical Report to accompany the draft NSW Biodiversity Strategy	
	REFERENCES:	
	DECCW (2010) Deriving Priority Areas for Investment: A Technical Report to accompany the draft NSW Biodiversity Strategy	
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	DRIELSMA, M. J., FERRIER, S. and MANION, G. (2007) A raster-based technique for analysing habitat configuration: The Cost-Benefit Approach. Ecological Modelling, 202, 324-332.	
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	FERRIER, S. and DRIELSMA, M. (2010). Synthesis of pattern and process in biodiversity conservation assessment: a flexible whole-landscape modelling framework. Diversity and Distributions, 16., 386-402	
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	FERRIER, S., POWELL, G. V. N., RICHARDSON, K. S., MANION, G., OVERTON, J. M., ALLNUTT, T. F., CAMERON, S. E., MANTLE, K., BURGESS, N. D., FAITH, D. P., LAMOREUX, J. F., KIER, G., HIJMANS, R. J., FUNK, V. A., CASSIS, G., FISHER, B. L., FLEMONS, P., LEES, D., LOVETT, J. C. and VAN ROMPAEY, R. S. A. R. (2004) Mapping more of terrestrial biodiversity for global conservation assessment. BioScience, 54, 1101-1109	
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Report to the Rural Fire Service.

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NEW SOUTH WALES DEPARTMENT OF ENVIRONMENT AND CONSERVATION (2006) Decision Support Tools for Biodiversity Conservation: Biodiversity Forecasting Toolkit. prepared by DEC for the Comprehensive Coastal Assessment (DoP). Armidale, DEC.

NEW SOUTH WALES DEPARTMENT OF ENVIRONMENT, CLIMATE CHANGE AND WATER (2010) Derivation of state scale priorities for terrestrial and aquatic ecosystems in NSW. A Technical Report Supporting the New South Wales Biodiversity Strategy 2010-2015.

THACKWAY, R and LESLIE, R. (2005) Vegetation, assets, states and transitions: accounting for vegetation condition in the Australian landscape. BRS Technical Report, Bureau of Rural Sciences, Canberra.

WALKER, P. J. and Soil Conservation Service of New South Wales. (1991) Land systems of western New South Wales / compiled by P.J. Walker Soil Conservation Service of NSW, [Sydney]:

Topic category

Keyword set			
keyword value	ECOLOGY		
	VEGETATION		
Originating controlled vocabulary			
Title	ANZLIC Search Words		
Reference date	2008-05-16		
Geographic location			
West bounding longitude	141		
East bounding longitude	154		
North bounding latitude	-38		
South bounding latitude	-28		
Vertical extent information			
Minimum value	-100		
Maximum value	2228		
Coordinate reference system			
Authority code	urn:ogc:def:cs:EPSG::		
Code identifying the coordinate reference system	5711		
Temporal extent			
Begin position	2006-01-01		
End position	N/A		
Dataset reference date			
Resource maintenance			
Maintenance and update frequency	As needed		
Contact info			
Contact position	Data Broker		
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Responsible party role	pointOfContact		

Lineage

For the purpose of the prioritisation NSW was divided into a regular grid of 500×500 m grid cells.

A surrogate for vegetation communities was derived using 572 geomorphology-based spatial units (Mitchell, 2002). Plant species compositional distinctiveness was derived for each unit (Ferrier et al., 2007) using floristic plot sites from DECCW's YETI database and a range of environmental surfaces (Logan et al., 2009).

Vegetation condition for NSW was sourced from work undertaken for the DECCW State of the Catchment reporting (SotC) (Dillon et al., 2009). The SotC report mapped vegetation extent and vegetation condition.

Vegetation extent was combined with land use to assign a vegetation condition class based on the National Vegetation Condition Classification (VAST, Thackway and Leslie, 2005).

The vegetation condition in the Western Division was modified to reflect differences that were not included in the SotC report but were identified through consultation with DECCW staff as worthy of inclusion.

Priority areas identified on the map have a combination of the following four attributes:

- 1. Moderate-to-good condition (relative to the condition of that type of vegetation generally);
- 2. Well-connected (fragmentation may be high for the type of vegetation it belongs to; however at this location there is good connectivity with other vegetation).
- 3. Belongs to a highly-cleared, degraded and/or fragmented type of vegetation.
- 4. Belongs to a type of vegetation that is floristically distinct from other, well-conserved types of vegetation.

In short, the Priority Area map identifies the best remaining examples of native vegetation within ecosystems that have had high rates of past clearing, degradation and/or fragmentation.

Viewing and interpreting the Priority Area map layer

- 1. The map is a draft of the map that will appear in the final version of the NSW Biodiversity Strategy. Priority Areas may change in response to comments received during the public exhibition period.
- 2. The map should be viewed at a 1:250,000 scale
- 3. Given the scale of the map, priority areas marked are indicative only and site assessment is necessary to confirm priority status of sites 'on-the-ground' (see below).
- 4. The map is tenure-blind. Priority areas for investment occur on both public and privately-managed land.
- 5. There are more Priority Areas identified on the map, than current levels of investment would allow us to manage over the 5-year life of the draft Biodiversity Strategy. This provides flexibility to land managers and regional planning bodies by giving a range of options that can be chosen from when investing in priority areas.

Site Assessment

Site assessment is a necessary step to confirm priority status of sites 'on-the-ground'. A site would be considered to be within a priority area if it has most of the following attributes:

- good-to-moderate condition;
- well-connected with other vegetation in the surrounding landscape;
- has a type of vegetation that has been highly cleared, degraded or fragmented within the region;
- a particularly distinctive type of vegetation that is not well-conserved in the region;
- located within a larger patch-size for that ecosystem (see Table 1 in the Technical Report for a summary of patch sizes within different ecosystems).

Decisions about the particular management actions that are most appropriate at the site level are best made by individual land managers; along with decisions about their cost-effectiveness.

Scope dataset

DQ Completeness Commission

Effective date

2001-01-01

DQ Completeness Omission

Effective date

2001-01-01

DQ Conceptual Consistency

Effective date

1900-01-01

Explanation Original analysis units of priority were analysed at 500 m. Priority areas for each

formation were clipped at a resolution of 200 m (formation grid resolution) and stored at a resolution of 200 m. Each formation grid retains a NSW wide extent. All grid cells with the formation present have a priority value and a tag of priority. Grid cells belonging to other formations have a no data value.

DQ Topological Consistency

Effective date

1900-01-01

DQ Absolute External Positional Accuracy

Effective date

1900-01-01

Explanation 100 m to 1 km

DQ Non Quantitative Attribute Correctness

Effective

date

1900-01-01

Explanation

No formal assessment of attribute accuracy has been undertaken. The Biodiversity Forecasting Tool identifies priorities based on a number of input layers, assumptions and analytical parameters described in:

DECCW (in prep.) Deriving Priority Areas for Investment: A Technical Report to accompany the draft NSW Biodiversity Strategy

The individual priority grids have been clipped spatially to the draft version 3 of the pre-1750 NSW vegetation map (produced by Keith and Simpson in 2010). The spatial accuracy and reliability of this mapping is variable, but is generally more reliable in coastal regions than regions in the State's west.

Responsible party

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Metadata date
2024-02-26T15:38:30.393913

Metadata language