

Supplementary Material

Where to survey? Spatial biodiversity survey gap analysis: a multicriteria approach

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S1 References for the 420 surveys included in the analysis.

Note that some surveys had shared references, some more than one reference and some, such as confidential surveys, had no published documentation.

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S2 Screenshot of the meta-database showing an example of the information documented for a survey.

Program:	ForestCheck	Project Leader Address:	DEC Brain St, Manjimup WA 6258
ProjectID:	490	Phone number:	08 9771 7998
Survey Monitoring Research?:	Monitoring	Email address:	lachie.mccaw@dec.wa.gov.au
Year:	2001, 2002	Technical expert:	Janet Farr, Ray Cranfield, Graeme Liddelow, Bruce Ward, Richard Robinson, Kim Whitford,
Type:	Biodiversity	Collaborating agency - Name:	
Habitat:	Terrestrial	Collaborating Agency - Address:	
Purpose:	Monitor effectiveness of forest manage	EndNoteCode:	[CALM Science Division, 2002 #37]
Target:	Kingston Block, Yornup Block, Thornton Block, Carter Block, Easter Block. Plots	Source web site:	http://www.dec.wa.gov.au/content/view/238
Determination:	Points provided by project leader	DocumentURL:	http://www.dec.wa.gov.au/images/stories/n
Original Datum:	GDA_1994_MGA_Zone_50	Should this information remain confidential?:	<input type="checkbox"/>
Project Leader - First Name:	Richard	Source:	DEC Science
Surname:	Robinson		
Project Leader Organisation:	Department of Environment and Conservation, Landscape Conservation		

TargetGroup	Detail	Methods
Vegetation community		Quadrat
Fungi and non-vascular flora		Transect
Flora		Plot
Terrestrial Invertebrates		Light trap, Pitfall trap, Foliage beating
Vertebrates		Pitfall trap, Cage trap
Birds		Spotlight, Bird census

DateStart	DateEnd	Survey Level
6/10/2001	17/05/2002	2

Units	Type
180	Quadrat
430	Trap point

Locations

Lines	Length (km)	Type
20	4.006927456395	Foot transect

Areas	Hectares
50	23.8707117869704

S3 Example of the technique used to classify data in the GIS layers into geometric intervals (after Dent 1999* p 146).

Using this method, the size of each succeeding class interval is larger than the previous interval by a constant value. A simplified example is shown in the Table S3 below.

These values were used to rank LCUs into five classes on the basis of combined relative survey effort.

Table S3 Example calculation for geometric class intervals and ranks for mapping the data where max = 160, min = 10, Range = 150 and CW = 10. Example from

<http://www.slideshare.net/johnjreiser/classification-systems> (Rowan University).

Rank	Lower limit	+ Rank*CW	= Upper limit
1	10	10	20
2	20	20	40
3	40	30	70
4	70	40	110
5	110	50	160

*Dent, B. D., 1999. Cartography. Thematic Mapping Design. WCB McGraw Hill, London.