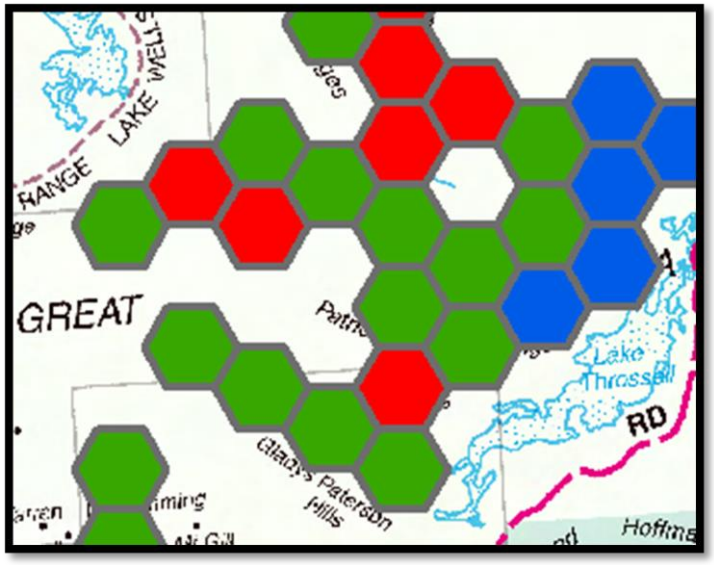
Department of Parks and Wildlife

GREAT VICTORIA DESERT BIODIVERSITY TRUST

Defining a baseline survey design for the Sandhill Dunnart (*Sminthopsis psammophila*) in the Great Victoria Desert of Western Australia



MAY 2016

Produced by Tamra Chapman, Department of Parks and Wildlife Western Australia, 17 Dick Perry Avenue, Kensington WA 6151 for the Great Victoria Desert Biodiversity Trust.

ACKNOWLEDGEMENTS

Thanks to the following people for providing data, publications and advice: Belinda Bastow, Peter Copley, Mark Cowan, Glen Gaikhorst, Lesley Gibson, Cathy Lambert, Xavier Moreau, Katherine Moseby, Amy Mutton, David Pearson, John Read, Jeff Turpin, Matthew Ward and Matthew Williams.

Contents

Introduction

Little is known about the distribution, abundance, habitat preferences and the effects of fire and feral predators on the sandhill dunnart (*Sminthopsis psammophila*) in Western Australia (Churchill 2001a). To date, the limited number of surveys and impact assessments targeting the sandhill dunnart in the Great Victoria Desert (GVD) of Western Australia have been highly localised, and capture rates have been low (Department of Parks and Wildlife 2016). The small number of detections of the sandhill dunnart, combined with the lack of geographical coverage of these locations, makes it difficult to draw inferences about the likelihood of detecting the dunnarts in the broader GVD. A comprehensive and systematic baseline survey is needed to address this data deficiency, and to make progress towards building a statistically robust habitat suitability model. This process will be iterative with improvements made as additional presence / absence data of sandhill dunnarts become available.

This report has two major components. First, historical survey data and the locations for sandhill dunnart observations were examined to assess potential habitat associations. Second, a quantitative baseline survey was designed to indicate placement of new survey sites where the sandhill dunnart may occur.

Methods

HISTORICAL SURVEYS

Surveys undertaken in the GVD of Western Australia, either targeting sandhill dunnarts, or general fauna surveys where sandhill dunnarts may have been present, were collated. Detailed information on these surveys is presented in Department of Parks and Wildlife (2016). The coordinates for the sites surveyed and sandhill dunnart observations were mapped in QGIS 2.8 (GDA94, Albers projection) and kernel density estimation was used to create 'heatmaps' within a 2 km radius. The aim of this analysis was to determine the extent of spatial bias in survey effort.

SANDHILL DUNNART OBSERVATIONS

Sandhill dunnart detections were mapped in ArcMap 10.1 and the 'integrate' (Data Management Toolbox) and 'collect events' (Spatial Statistics Toolbox) tools were used to pool observations within 2 km of each other. This analysis was used to estimate the total number of independent locations where sandhill dunnarts have been detected to date, by filtering out spatially auto-correlated observations (Boria *et al.* 2014). Sites located at least 2 km apart are considered independent based on estimates of sandhill dunnart home range size (Read *et al.* 2015).

The resulting locations were mapped with graduated circles representing the number of detections made at each point. QGIS 2.8 was then used to create a minimum concave hull of the detection locations to estimate the area of occupancy based on known locations of sandhill dunnarts.

GEOPHYSICAL ANALYSIS

In ArcMap, detection locations of the sandhill dunnart were intersected with geology, regolith, soils, landform, vegetation and fire history spatial datasets (see metadata in Table 1) and the geophysical attributes for each of the locations were determined. The aim of this analysis was to determine if sandhill dunnart observations could be related to gradients in environmental attributes.

Table 1 Summary of geodata used to classify sandhill dunnart locations in Western Australia.

Layer (group)	Metadata
Fire scars	Mapped by Landgate from satellite images. NOAA burnt area maps
Geology of WA (Geology)	Detailed geological mapping at 1:250,000 providing information on geological units, structural geology and fault lines, to produce geological plans.
Landscape Character Types (Landform)	Landscape character type is a broad-scale area of land and water with common distinguishing visual characteristics based on physical landscapes and its overall visual appearance.
Physiognomic vegetation (Vegetation)	This dataset groups Beard's vegetation associations in the pre-European vegetation spatial dataset into vegetation types. Each vegetation type has a unique structural and floristic description, and can be further grouped into vegetation formations. Full details about the classification and descriptions of the Vegetation Types are presented in Beard, J. S., Beeston, G. R., Harvey, J. M. Hopkins, A. J. M. and Shepherd D.P. (2013) The vegetation of Western Australia at the 1:3,000,000 scale Explanatory memoir Second Edition In:

	Conservation Science Western Australia-Vol. 9.
Regolith (Geology)	The digital 1:500,000 regolith map of Western Australia (preliminary edition) is based on published GSWA 1:250,000 and 1:100,000 series geological maps. These maps have been simplified for display at 1:500,000 scale to include nine geological units (exposed (areas of outcrop), colluvium, alluvium, lacustrine, coastal, tidal, calcrete, sand plain and residual) as well as areas of mining activity.
Soils of WA (Geology)	Atlas of Australian Soils for Western Australia. Published by CSIRO, Melbourne, 1967. Published scale 1:2,000,000.

SANDHILL DUNNART SURVEY DESIGN

Aim

The aim of the baseline survey design was to identify planning units where:

- historical survey effort had been relatively low;
- cover of potential sandhill dunnart habitat (based on broad vegetation associations) was relatively high;
- there was no documented evidence of broad-scale fire in the past ten years;
- mining activity was relatively low; and
- roads would facilitate vehicular access.

Study area

The Shield and Central biogeographical sub-regions (IBRA 7) of the Great Victoria Desert were identified as the planning area and the QMarxan plugin for QGIS 2.8 was used to create 1,221 hexagons representing 1,250 ha planning units inside the planning area (Figure 1). Each planning unit was individually numbered.

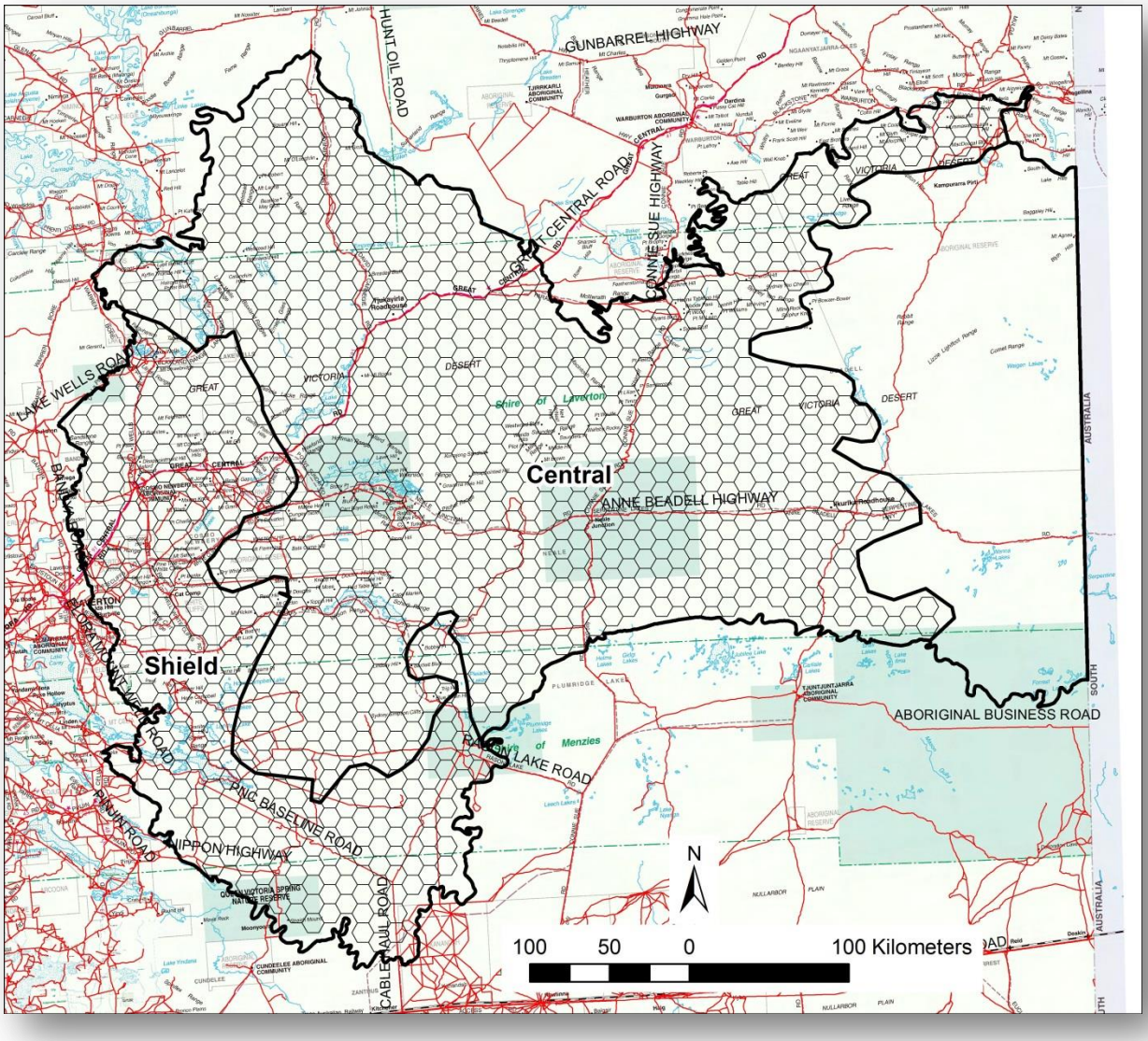


Figure 1 Great Victoria Desert IBRA Region showing the Shield and Central sub-regions representing the planning area, containing the 1,221 planning units (1,250 ha hexagons).

Datum and projection

All spatial data were projected in Australian Albers projection (Geocentric Datum of Australia 1994) which minimises distortion for geographic areas between latitudes and is thus, an ideal projection for area-weighted comparisons and modelling (Kennedy and Kopp 2000; Yildirim and Kaya 2008) such as those in the present study.

Previous survey effort

As a measure of previous survey effort for each planning unit, the locations for the 240 historical survey sites (see Department of Parks and Wildlife 2016) in the planning area were added to the map. The 'count points in polygon' tool in QGIS 2.8 was used to calculate the total number of sites that had been surveyed in each planning unit and these data are shown for each unit number as 'Sites surveyed' in Appendix 1.

Habitat

The physiognomic vegetation of Western Australia layer was considered the most appropriate means of representing habitat type in relation to other factors like geology, soils, landform etc. (see Beard *et al.* 2013). The Zonal Statistics tool of ArcMap 10.1 was used to calculate the area, in hectares, of each habitat type falling in each planning unit. The structural and floristic description of each habitat type is shown for the planning units in Table 2 and the area of habitat in each planning unit is shown in Appendix 1.

Table 2 Cover, structural and floristic description of habitats occurring in the planning area.

Habitat type	Structural description	Floristic description
Bare areas	Salt lake, lagoon, claypan, rock	
Halophyll and sarcophyll communities	Saltbush and bluebush	*Atriplex* sp., *Maireana* sp. communities on alkaline soils
	Saltbush and bluebush with scrub or open scrub	*Atriplex* sp., *Maireana* sp. with mulga (*Acacia aneura*), other wattle (*Acacia* sp.)
	Saltbush and/or bluebush with scattered low trees	*Atriplex* sp., *Maireana* sp. with mulga (*Acacia aneura*), other wattle (*A. papyrocarpa*), casuarina (*Allocasuarina cristata*)
	Samphire	*Tecticornia* sp. communities in saline areas
Low woodland (< 10m tall)	Low woodland or open low woodland	Other wattle (*Acacia* sp.), banksia (*Banksia* sp.), peppermint (*Agonis flexuosa*), cypress pine (*Callitris* sp.), casuarina (*Allocasuarina* sp.), York gum (*Eucalyptus loxophleba*)
	Low woodland, open low woodland or sparse woodland	Mulga (*Acacia aneura*) and associated species

Habitat type	Structural description	Floristic description
Medium woodland (10-30m tall)	Woodland	Goldfields-gimlet (*E. salubris*), redwood (*E. transcontinentalis*), etc. Riverine-rivergum (*E. camaldulensis*).
Spinifex grassland	Low tree-steppe	Hummock grassland (*Triodia* sp.) with scattered bloodwood (*Corymbia dichromophloia*) and snappy gum (*Eucalyptus brevifolia*)
	Shrub-steppe	Hummock grassland (*Triodia* sp.) with scattered shrubs (*Acacia* sp., *Grevillea* sp.) or mallee (*Eucalyptus* sp.)
	Sparse low tree-steppe	Hummock grassland (*Triodia* sp.) with sparse eucalypts e.g. bloodwood (*Corymbia dichromophloia*) and snappy gum (*Eucalyptus brevifolia*)
	Sparse shrub-steppe	Hummock grassland (*Triodia* sp.) with sparse shrubs (*Acacia* sp.)
	Tree- and shrub-steppe	Hummock grassland (*Triodia* sp.) with scattered eucalypts (*Eucalyptus gongylocarpa*) over wattle scrub (*Acacia* sp.) or mallee (*E. youngiana*)
Tall (sclerophyll) shrubland (> 1m tall)	Mallee	Eucalypt shrubland (*Eucalyptus eremophila*, *E. redunca*, *Eucalyptus* sp.)
	Scrub, open scrub or sparse scrub	Wattle (*Acacia* sp.), tea tree (*Melaleuca* sp.) and other species

Multi-criteria model

Multi-criteria modelling was used to identify planning units that were poorly surveyed, but which contained a relatively high proportion of the habitat type in which sandhill dunnarts had previously been recorded. This modelling technique uses matrix overlay calculations to select planning units according to set criteria. There are many approaches to multi-criteria modelling (Chakhar and Mousseau 2008; Drobne and Lisec 2009; Malczewski *et al.* 2010), and the technique is commonly used to assist in conservation management decision making (Diaz-Balteiro and Romero 2008; Mendoza and Martins 2006).

Each layer must have the same data format and thus, the data associated with each planning unit must be standardised via re-scaling; for example on a scale from 0-100 or 0-1, depending on the method chosen. A simplified example of this process is shown in Figure 2, where the large squares represent

the planning area and the small squares represent the planning units. In this example, there are two layers of spatial data, one with decimal data (between 0 and 0.5) and one with whole numbers (between 0 and 50), which are re-scaled into equitable classes from 1 to 5. The layers are then overlaid and matrix based algorithms are used to calculate a value for each planning unit according to pre-determined criteria (Drobne and Lisec 2009; Malczewski *et al.* 2010). Criteria may be included as 'benefit criteria', which are selected for, or as 'cost criteria', which are selected against, by reversing their scaled values.

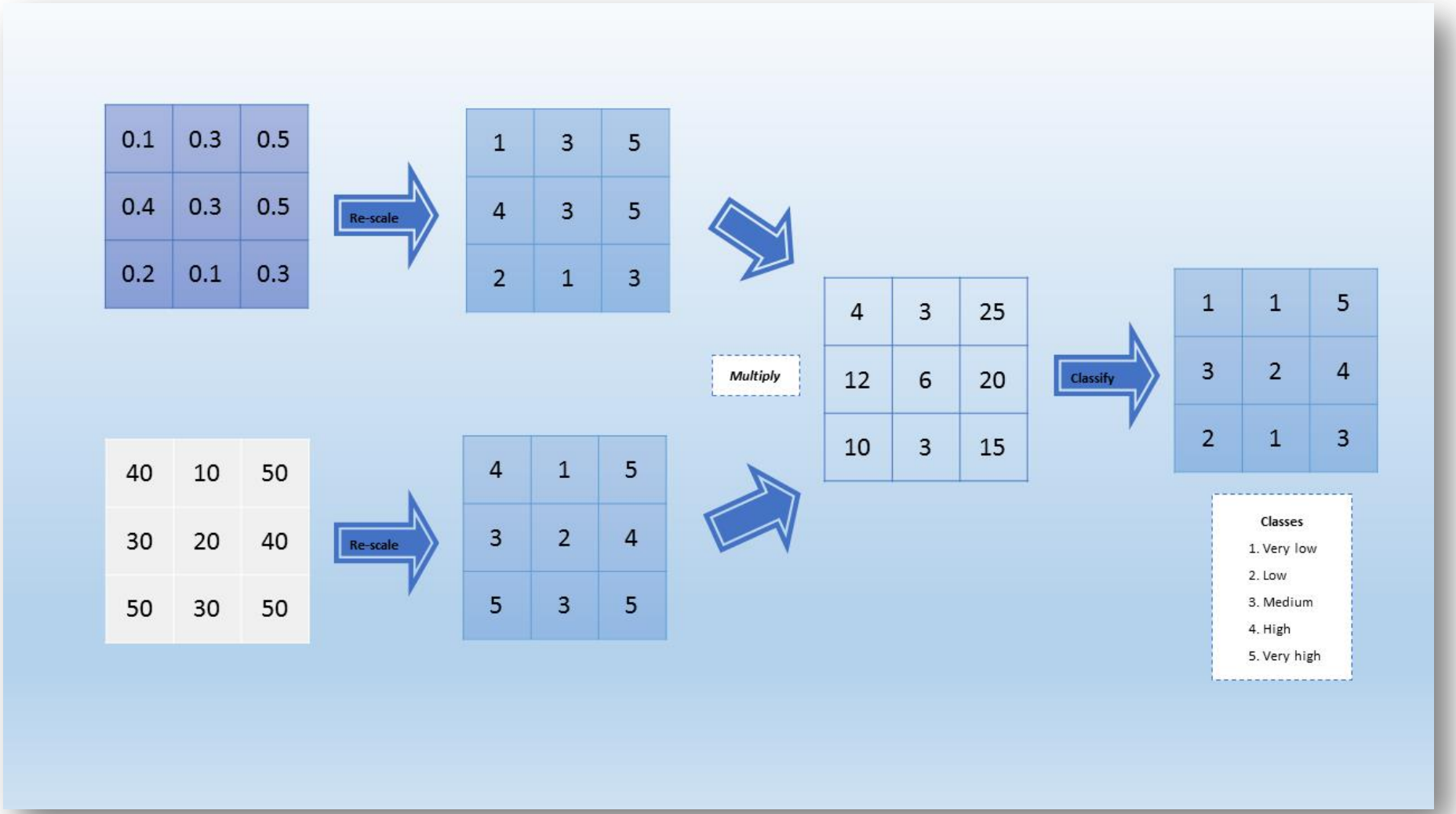


Figure 2 Simplified schematic diagram of the matrix overlay calculation process used to combine spatial data layers into a multi-criteria model.

Benefit factors

The benefit factors selected for the model were low woodland, tall shrubland and spinifex grassland (Figure 3). As sandhill dunnarts have been found in habitats with combinations of mallee, shrubland and mid-age spinifex habitats with 30-70% cover in Western Australia (Churchill 2001b; Gaikhorst and Lambert 2014), it was assumed that these vegetation associations represented potentially suitable habitat.

Cost factors

In order to increase the geographic coverage of survey effort across the broader GVD, previous survey effort was considered a cost factor in the model (Figure 3). As medium woodland was considered unsuitable habitat (J. Turpin pers. comm.) and only occurred in two planning units, it was also included as a cost factor. Other unsuitable habitats such as saltbush, bluebush and samphire, and lakes, lagoons, claypans, and areas of rocky outcrops were combined into a single layer called 'Unsuitable habitat' and also modelled as a cost factor (Figure 3).

Model construction

The open source multi-criteria decision analysis and geo-visualisation tool MCDA4ArcMap (Rinner and Voss 2013) was used to construct the model (see Voss 2015). Each layer was given equal weight (16.67%; Figure 3).

Algorithms

The data layers were standardized using maximum score normalisation (x_i'); Equation 1 for benefit factors and Equation 2 for cost factors:

$$x_i' = \frac{x_i}{x_{max}} \qquad \text{Equation 1}$$

$$x_i' = 1 - \frac{x_i}{x_{max}} \qquad \text{Equation 2}$$

Weighted linear combination (WLC) was then used to combine the data layers, using Equation 3:

$$WLC = \sum_{k=1}^{n} v(x_i')w_k \qquad \text{Equation 3}$$

where v is the criterion value and $0 \leq w \leq 1$ is the weight.

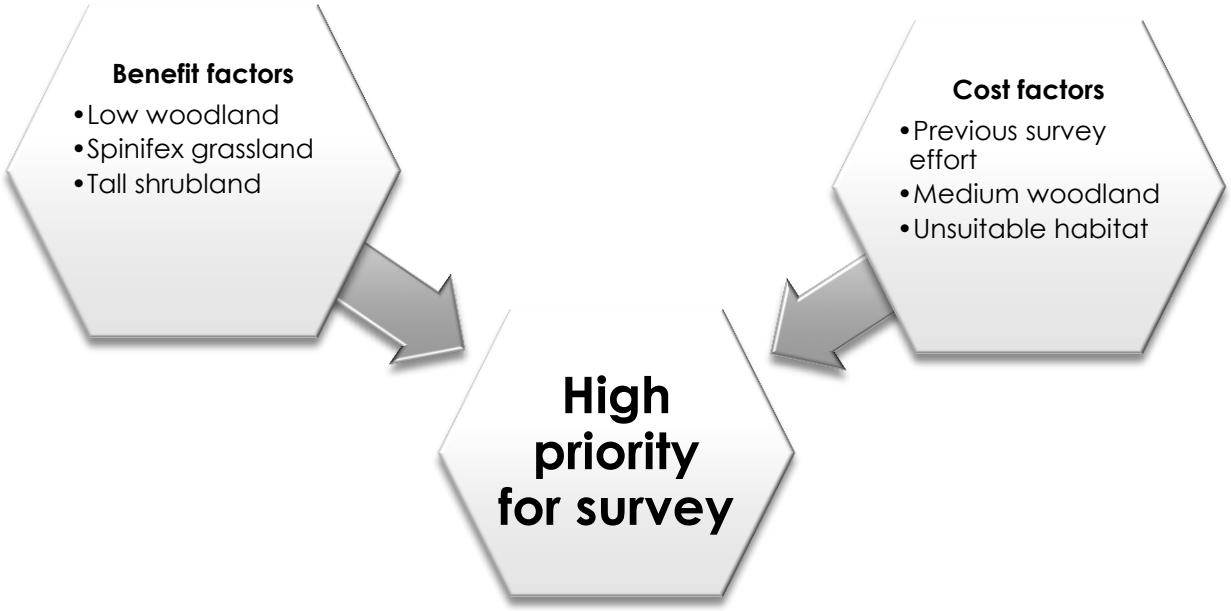


Figure 3 Conceptual diagram of the multi-criteria model used to select planning units for sandhill dunnart surveys.

The resulting values were divided into five classes of priority for sandhill dunnart surveys, using natural breaks (jenks). The planning units in the top three priority classes for survey were extracted for further analysis because they are most likely to represent areas where sandhill dunnarts may occur.

Removal of units in close proximity to mining infrastructure

Data layers showing mining leases (excluding proposed and undeveloped areas), and mining infrastructure (such as open pits, processing plants, tailings storage etc.) were overlain on the planning area. Spatial tools were used to select planning units which had their centroid within a live mining tenement and / or where mining infrastructure was present in the planning unit. These units were excluded from those suitable for survey due to potential access and health and safety issues.

Removal of recently burnt units

Fire scars layers, prepared by Landgate from satellite images, were also overlain on the planning area and a select query in ArcMap 10.1 was used to extract fire scars between 2006 and 2015. A spatial query was then used to

select planning units which had not been burnt in the last ten years. Recently burnt planning units (≤ 10 years post fire) were excluded as they are unlikely to support sufficient vegetation cover for sandhill dunnarts (Churchill 2001a, b; Gaikhorst and Lambert 2014). It is important to note that the coarse resolution of the fire scar layer means that patchy burns are unlikely to be well represented.

Identification of units with road access

To facilitate vehicular site access, planning units that were intercepted by roads were selected via spatial analysis in ArcMap 10.1.

Stratified random sampling by habitat type

The limitations of using the physiognomic vegetation layer to represent habitat for this kind of modelling exercise are two-fold. First, the coarse resolution of this layer (1:3,000,000) means that it is a broad representation of habitat type. Second, because the planning units were 1,250 hectares in area, more than one vegetation type may occur in each planning unit. To account for this, planning units were classified to represent the dominant vegetation type occurring within each unit (i.e. at least 50% cover).

Stratified random sampling was used to select planning units for survey in each of the three dominant habitat types: low woodland, spinifex grassland; and tall shrubland. The number of planning units representing each dominant habitat type was calculated and 20 survey units were randomly selected according to the relative proportion of each habitat type, with a minimum of two units allocated to each habitat type using the vector research tools in QGIS 2.8.

Field guide

The planning units identified in the baseline survey design were converted into an atlas so they could be readily located in the field.

Results

HISTORICAL RECORDS

Fauna surveys sites that either targeted sandhill dunnarts or could have detected sandhill dunnarts (see Department of Parks and Wildlife (2016) for more detail on surveys) are shown in Figure 4. There was a clear spatial bias toward the south-western part of the Great Victoria Desert Bioregion. There are two reasons for this. First, since the sandhill dunnart is a little known threatened species, targeted surveys were concentrated in areas where the species had previously been detected. Second, the south western part of the study area has been a region of high activity for mining exploration and resource extraction (refer to Figure 9) resulting in a concentration of fauna impact assessments in that area. Sandhill dunnarts were detected in 15 locations in a 4,674 km^2 area within, and to the north-east, of Queen Victoria Spring Nature Reserve (Figure 5).

GEOPHYSICAL FEATURES

The 15 locations where sandhill dunnarts were detected all fell in the Great Victoria Desert dunefields landform and shared similar geology and soils: Cainozoic Quaternary Aeolian red and yellow quartz sand. Figure 6 shows that locations 1-3 were in mulga (*Acacia aneura*) low woodland, open low woodland or sparse woodland, and locations 4-15 were in hummock grassland (*Triodia* sp.) with scattered eucalypts (*Eucalyptus gongylocarpa*) over wattle scrub (*Acacia* sp.), or mallee (*E. youngiana*). Note that these habitat descriptions are derived from the physiognomic vegetation layer, and so are broad representations that may differ from what is actually present.

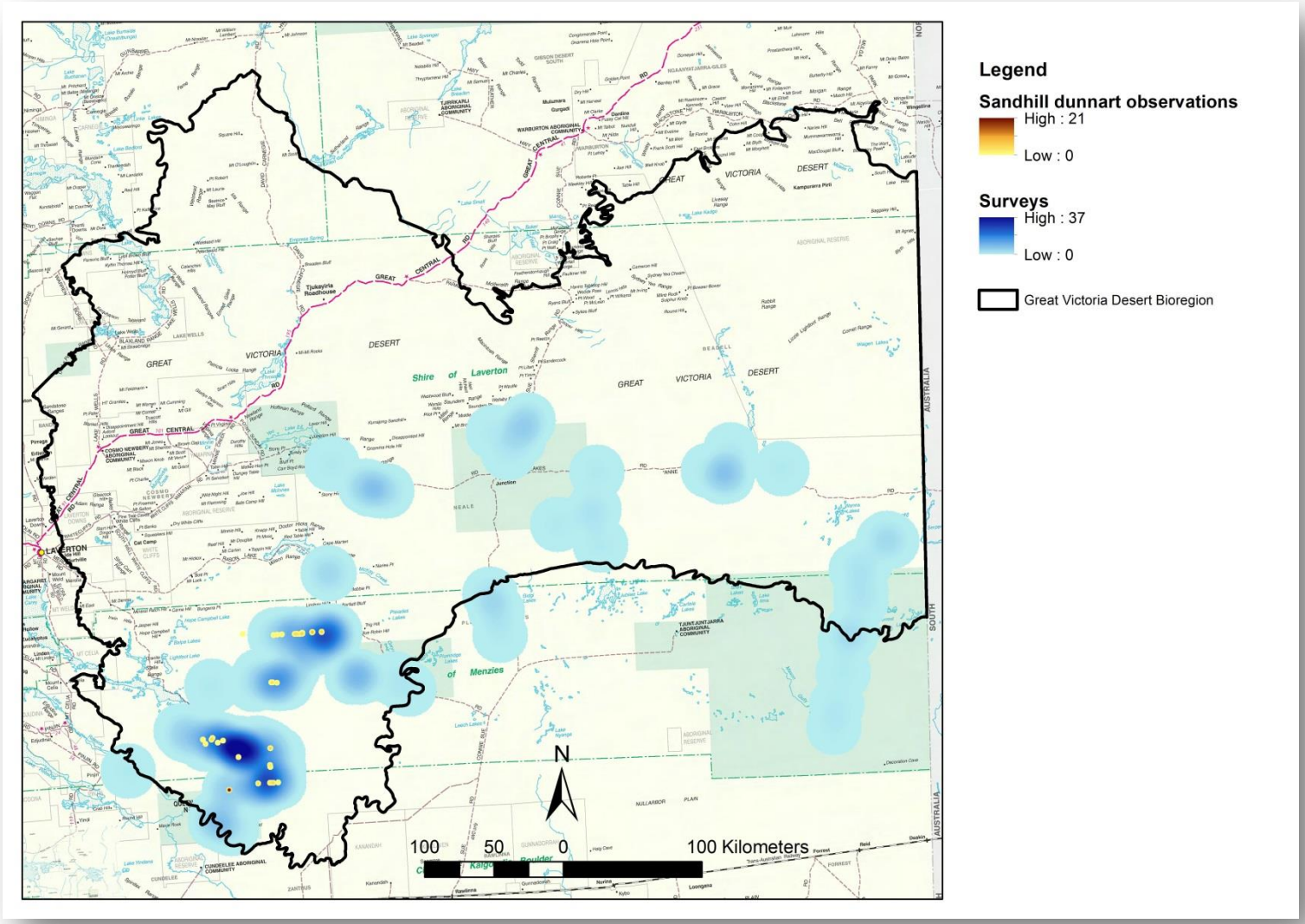


Figure 4 Heatmaps showing survey effort (*n* = 240 sites surveyed) and sandhill dunnart observations (*n* = 84). Note that two sandhill dunnarts were captured in a construction trench and thus were not associated with survey sites (see Department of Parks and Wildlife (2016) for more detail).

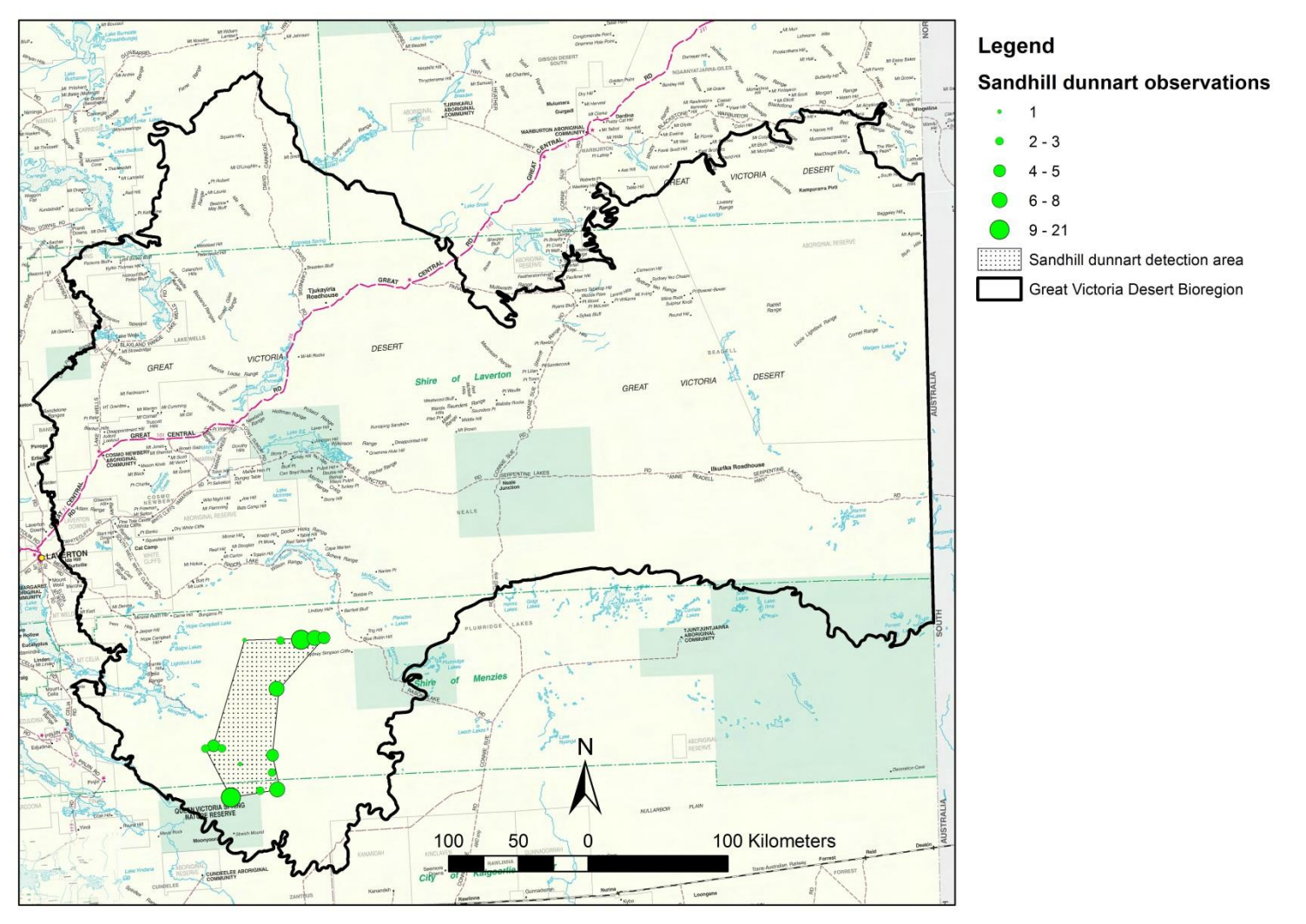


Figure 5 Locations where sandhill dunnarts were detected (*n*=15 locations ≥ 2 km apart) with graduated circles representing the number of dunnart detections for each location, with concave hull polygon.

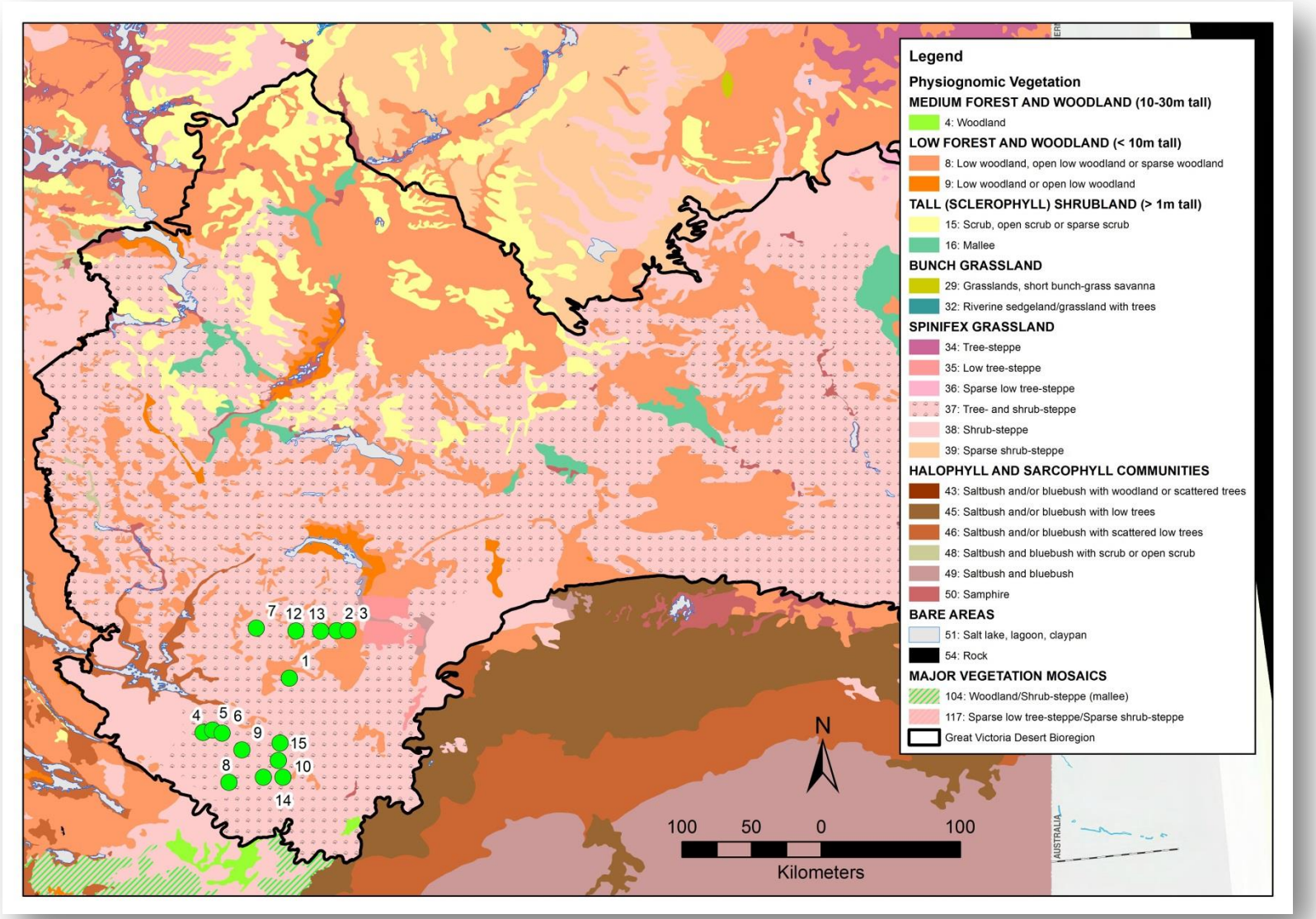


Figure 6 Locations where sandhill dunnarts were detected shown with physiognomic vegetation.

Survey Plan

The data included in the model are shown spatially in Figure 7 and presented in tabulated format in Appendix 1. The six corresponding layers, representing the scaled and classified data are shown under benefit and cost factors in Figure 8. The result of the linear combination model, allocating priority to units are shown in the centre of Figure 8. Units that were a high priority for survey (categories 1-3) were exported for further analysis.

The high priority units for survey (hexagons in categories 1-3) are shown with live mining tenements and mining infrastructure in Figure 9 and with fire scars for the last ten years in Figure 10. After removal of units that were affected by mining activity and / or fire, 457 units remained and these are shown by dominant habitat type in Figure 11. The 20 randomly selected units, stratified by habitat type, are shown with the corresponding unit number in Figure 12.

ROAD ACCESS

Figure 13 shows the 143 high priority planning units (hexagons in categories 1-3) that were intercepted by roads. Figure 14 shows the 20 randomly selected units with road assess stratified by dominant habitat type.

LOCATION AND DOMINANT HABITAT TYPE OF SURVEY UNITS

The numbered survey units can be located in the field by using the atlas and the cover for each habitat type is shown by planning unit number in Appendix 1.

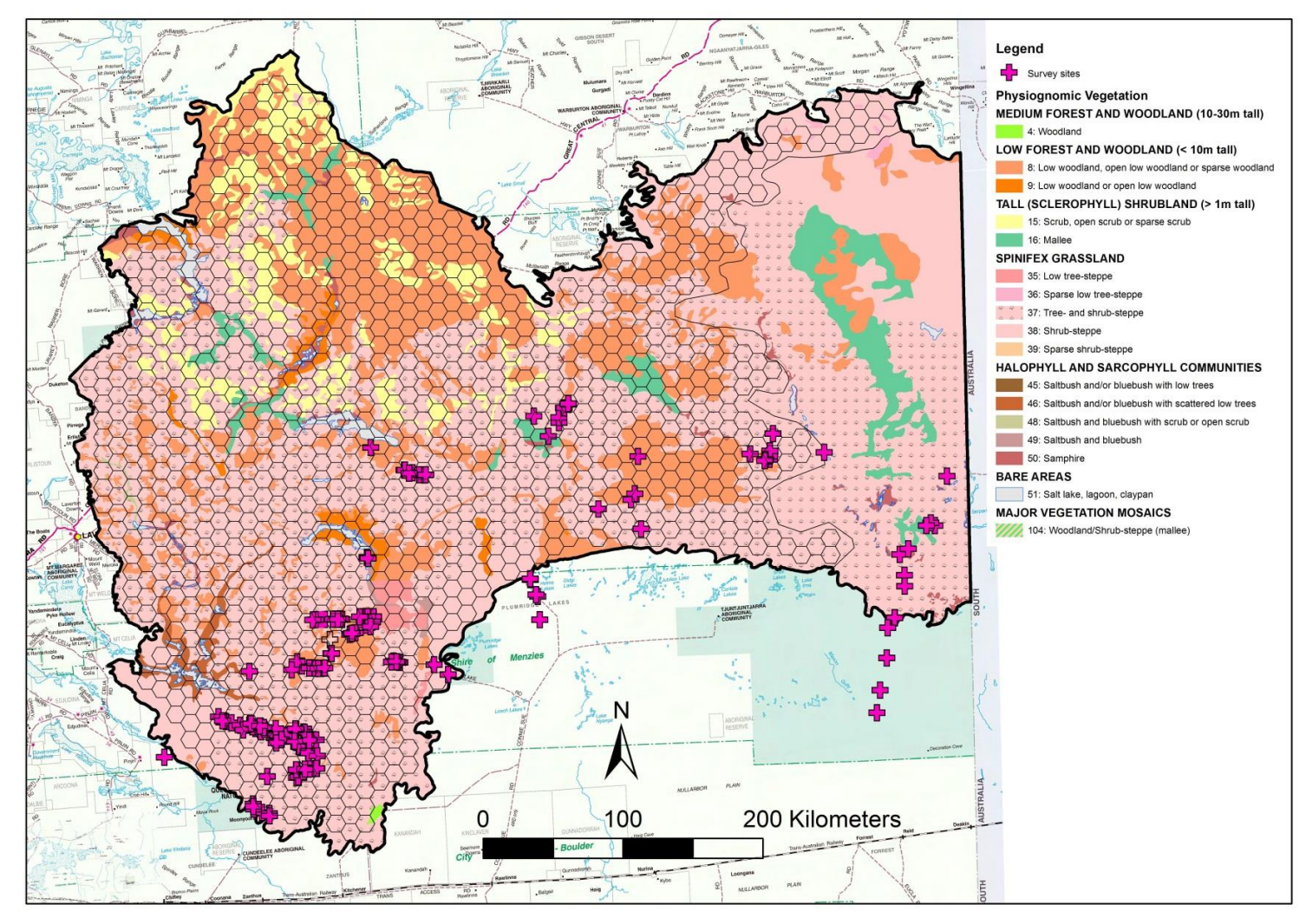


Figure 7 Planning area showing planning units (hexagons), known historical survey sites (*n* = 240 in total and *n* = 209 falling in the planning units) and physiognomic vegetation.

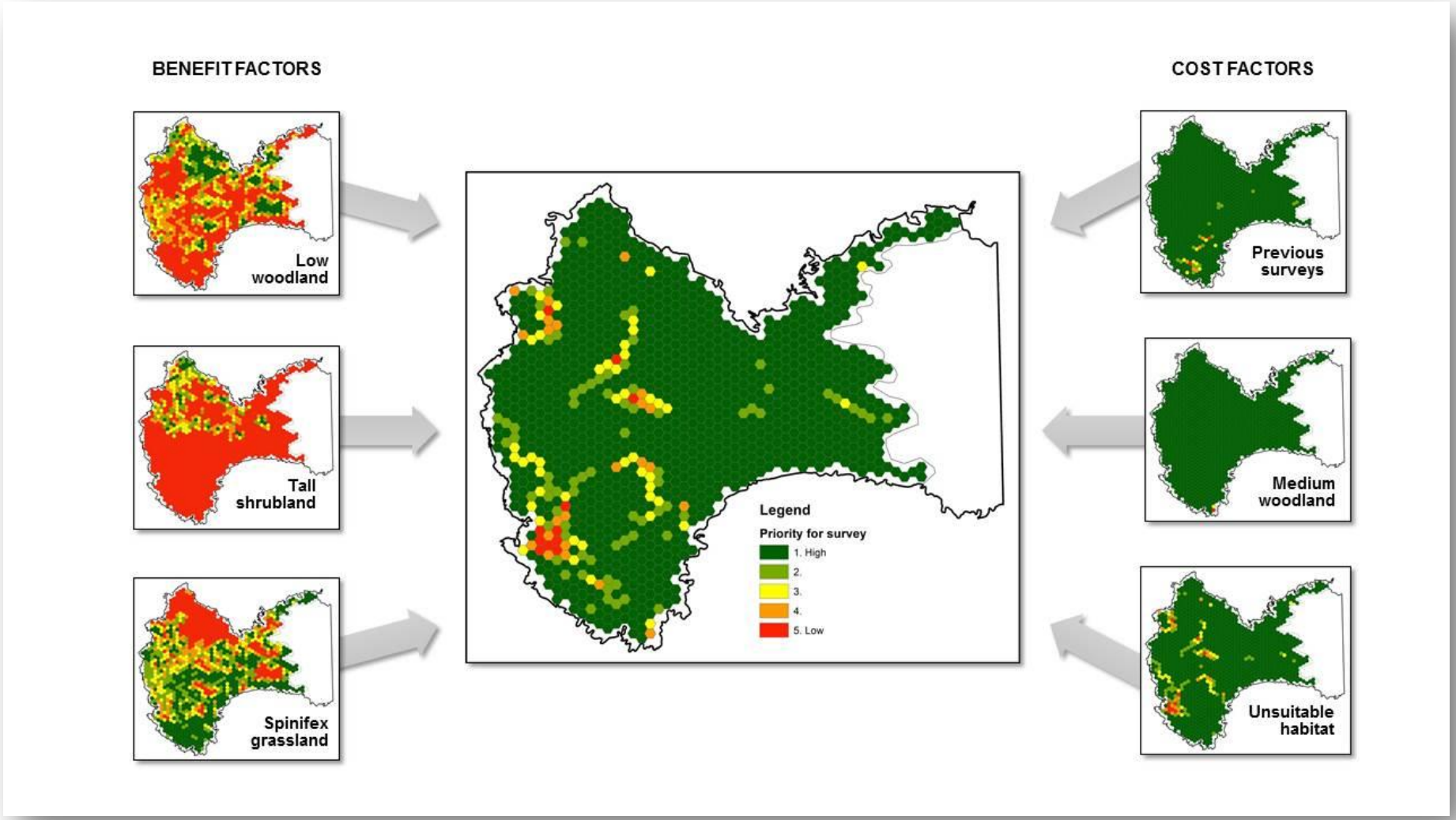


Figure 8 Multi-criteria model showing priority for additional survey based on relatively high cover of low woodland, tall shrubland and spinifex grassland and relatively low historical survey effort, cover of medium woodland and cover of unsuitable habitat. The six factors were evenly weighted (16.67%) and *n* = 1,221 planning units.

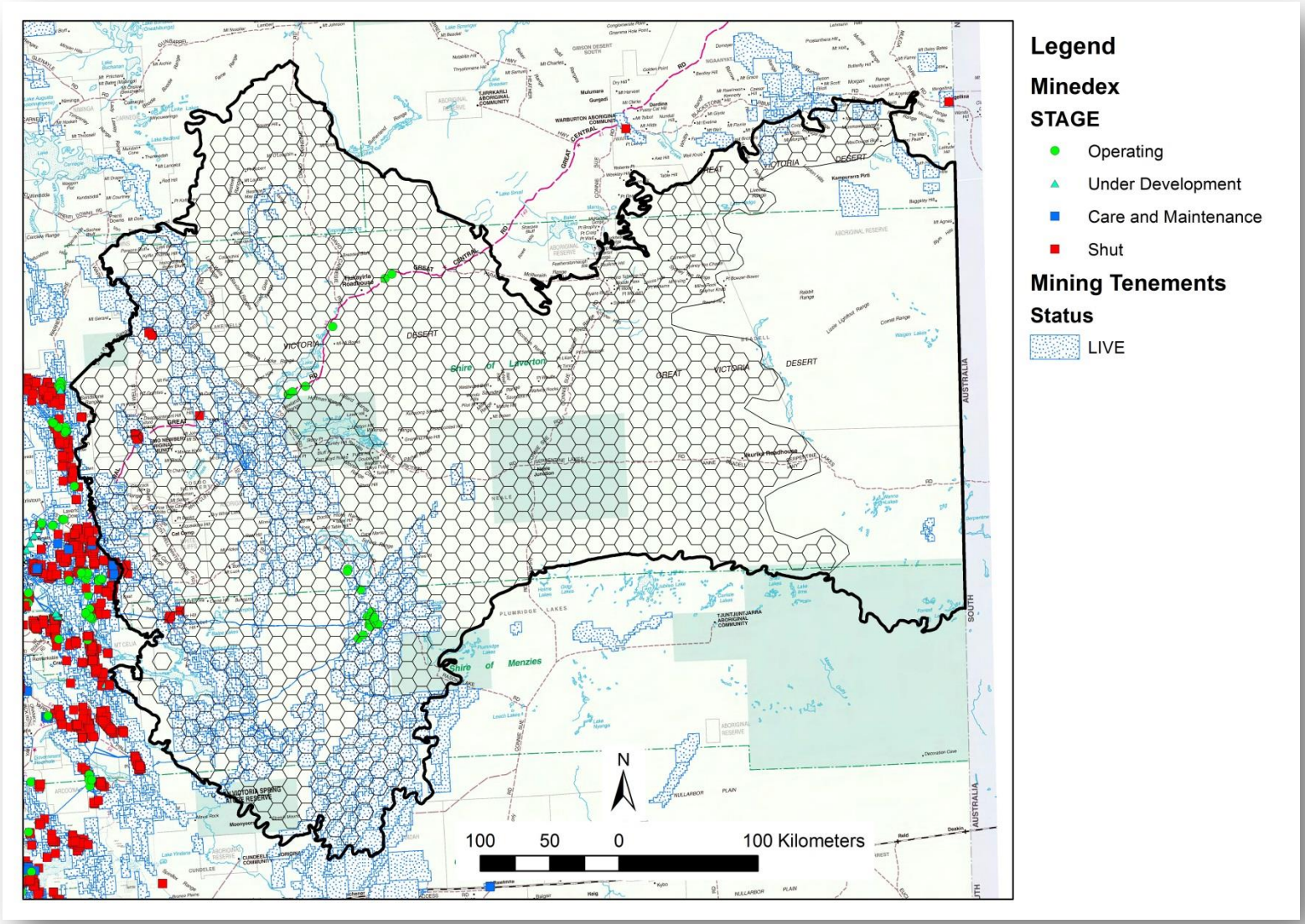


Figure 9 High priority planning units for survey (*n* = 1,185), shown with mining infrastructure and tenements.

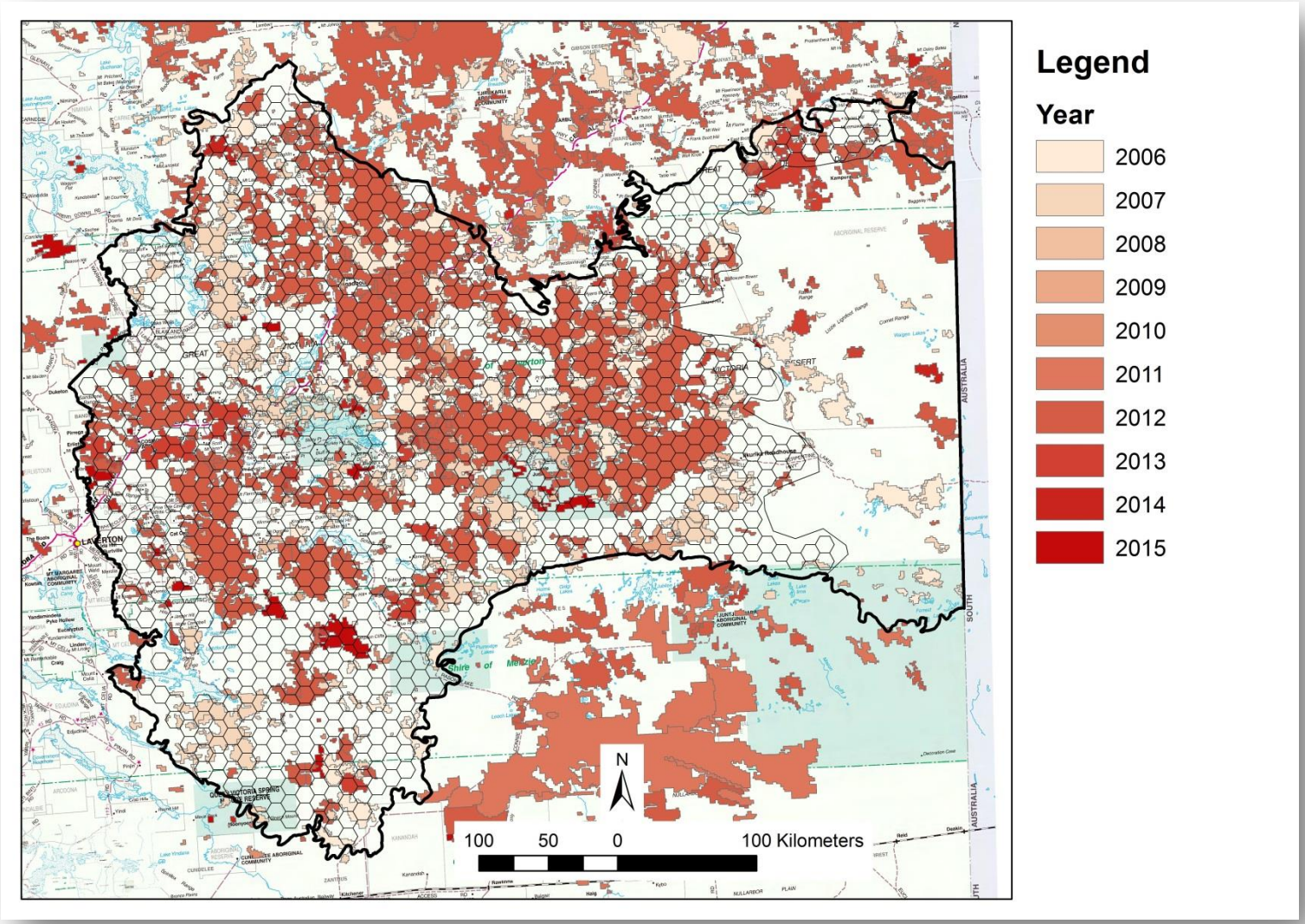


Figure 10 High priority planning units for survey (*n* = 1,185), showing fire scars between 2006 and 2015.

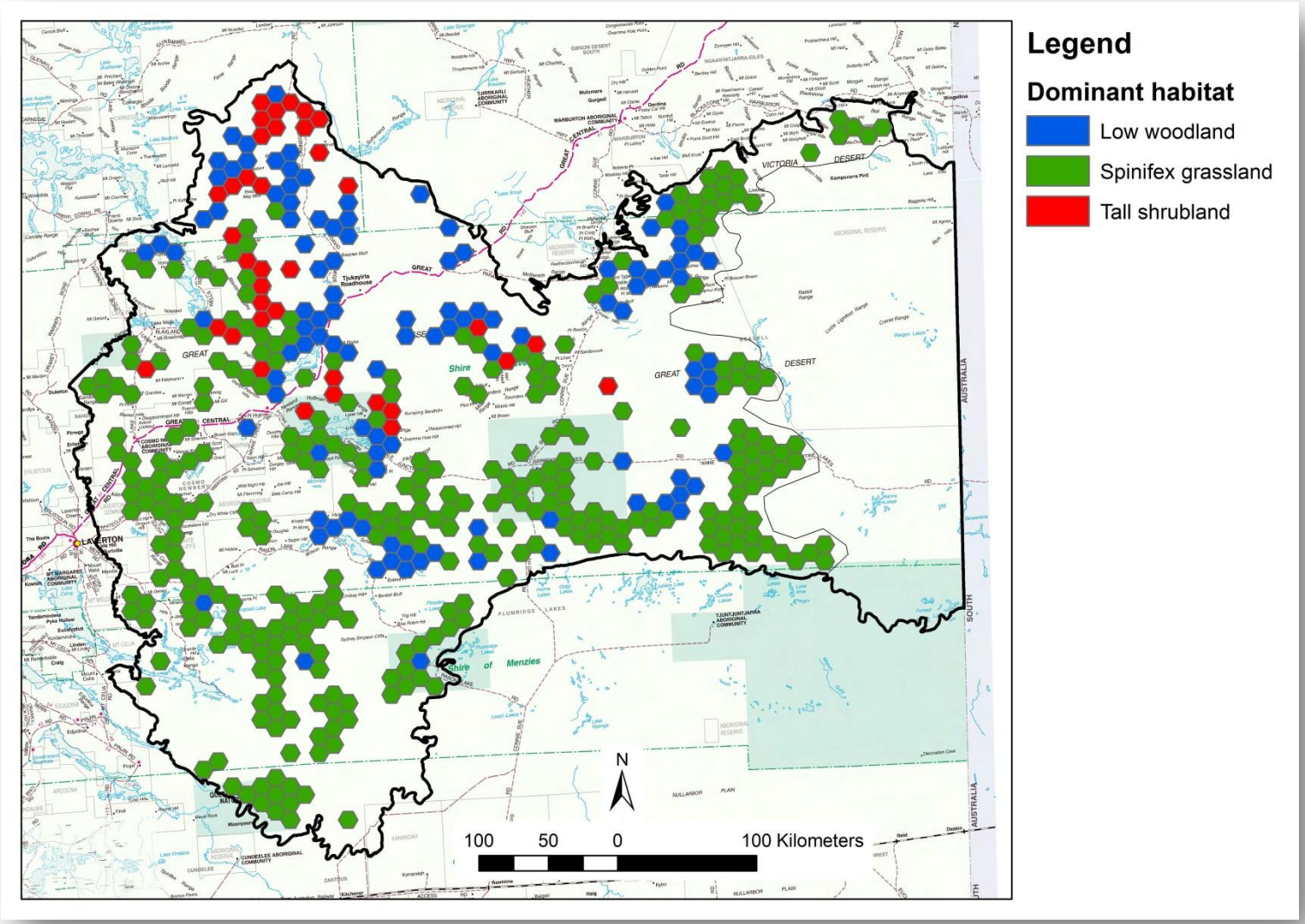


Figure 11 Planning units remaining after removal of those affected by mining and fire in the last 10 years (*n* = 457), shown with dominant habitat type.

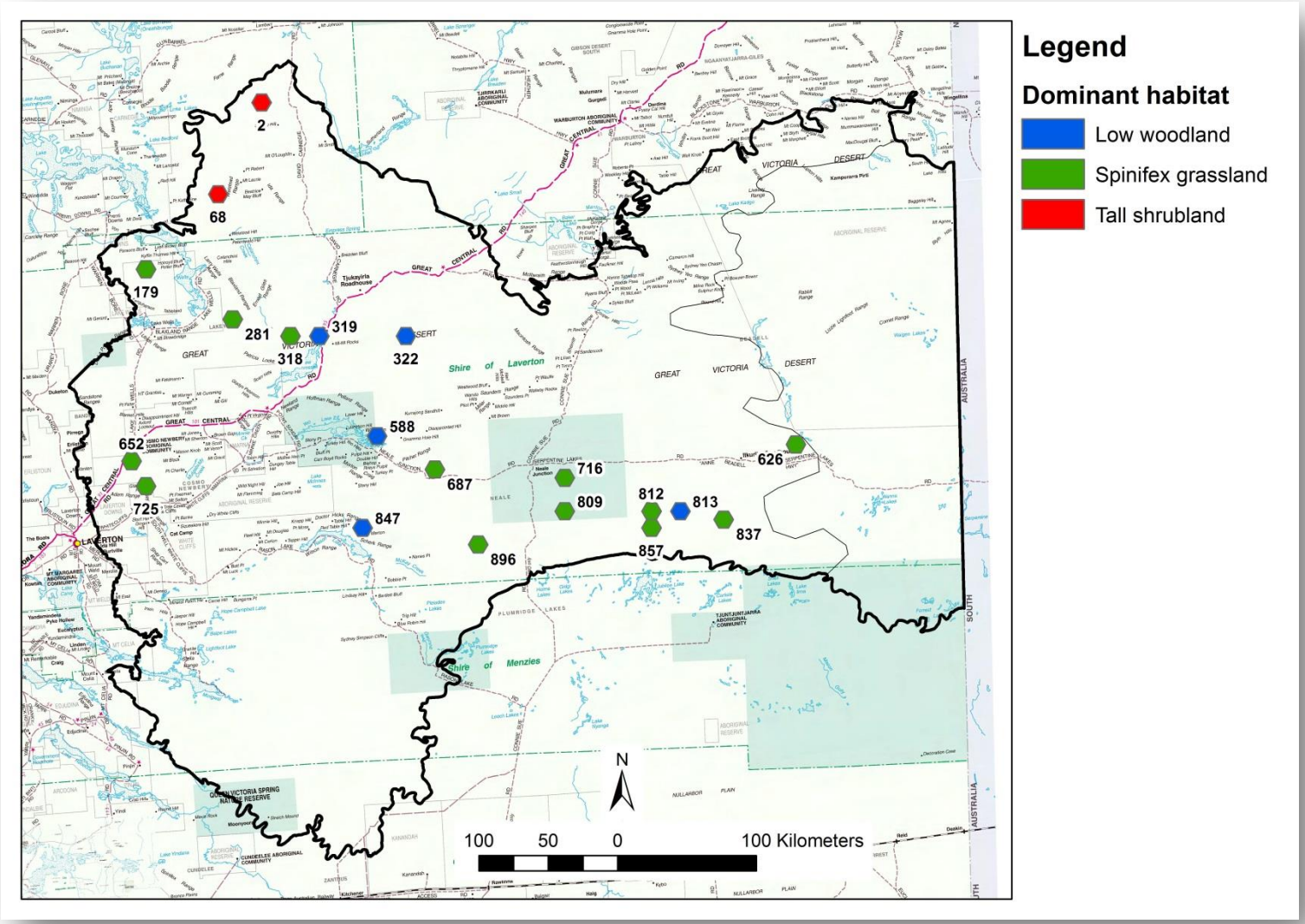


Figure 12 Twenty randomly selected planning units shown with dominant habitat type and labelled with unit number.

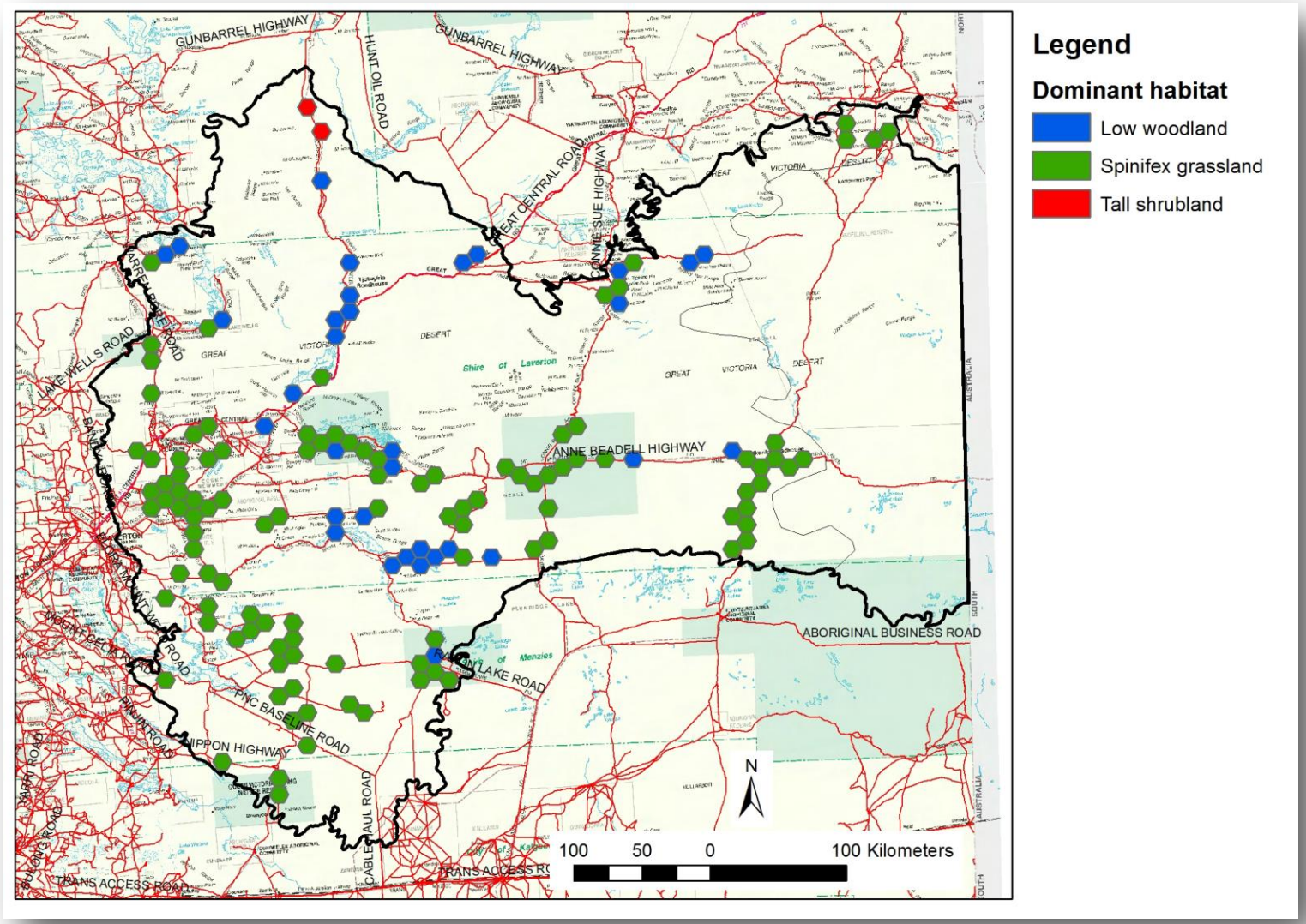


Figure 13 Planning units remaining after removal of those affected by mining and fire in the last 10 years that were intercepted by roads (*n* = 143), shown with dominant habitat type.

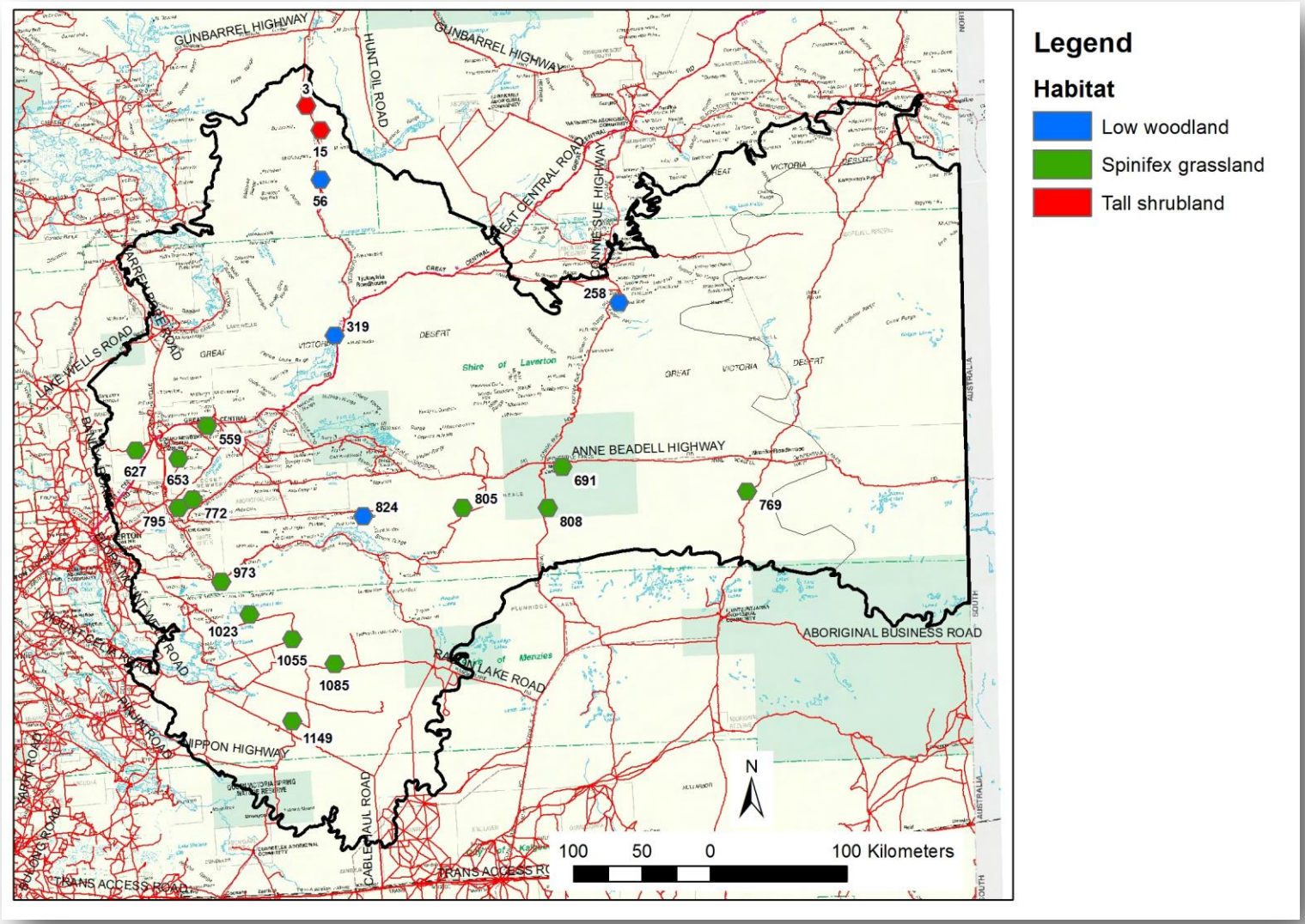


Figure 14 Twenty randomly selected planning units selected from those with road access, labelled with unit number.

Recommendations for the placement of survey sites

The review of previous survey effort for the sandhill dunnart in this report indicates that only a small area of the species' potential range has been sampled in Western Australia. Locations where the sandhill dunnart has been previously detected are very similar in geology, regolith, soils, landform and vegetation type. This may be because sandhill dunnarts occur in a narrow range of habitats, or because surveys to date have been biased toward locations where the sandhill dunnart has previously been detected. In addition, because there are very few sites where the sandhill dunnart has been detected, and detection rates have been low, there are insufficient data to make quantitative inferences regarding the likelihood of detecting the species in relation to a suite of environmental parameters.

A quantitative survey design is presented in this analysis which aims to identify survey units with relatively low previous survey effort and relatively high proportion of 'suitable' habitats where the dunnart may occur (i.e. low woodland, spinifex grassland and tall shrubland). Additional criteria were applied to avoid units affected by mining activity, and fire in the last decade and to facilitate vehicular access if this is deemed necessary.

While 20 planning units were randomly selected for the initial survey program, any number of the survey units identified as a part of this process could be selected for survey. A stratified random sampling approach is recommended, but the ultimate aim may be to sample all of the units shown in Figure 11, depending on the results of the phased survey as they emerge.

The scale of the vegetation maps and the inherent inaccuracies associated with spatial data mean that they should only be considered as broad representations of habitat types present on the ground. Further interrogation, such as examination of Google Earth maps, and ground truthing, is essential to inform actual placement of survey sites.

Given the above caveat, the following guidelines are recommended for the baseline survey program:

- Surveys should be conducted as described in the *Survey and monitoring guidelines for the sandhill dunnart in Western Australia* (Department of Parks and Wildlife 2016).
- Initially, seven camera traps should be placed, at least 2 km apart, in each planning unit (hexagon). It is expected that precise placement will be finalised in the field.
- Where possible, camera traps should be placed in the habitat types present according to the proportion of each habitat type represented in the survey unit. These data are provided in Appendix 1.
- Camera trapping and documentation should be conducted in accordance with the survey and monitoring guidelines (Department of Parks and Wildlife 2016). However, for the purpose of the baseline survey, it is recommended that the cameras are set to operate for 60 days. This may be refined to a shorter period once the data are reviewed.
- The following data sheets should be filled out for each camera trap location:
    - Local site information
    - Recent fire and disturbance
    - Vegetation structure
    - Camera trapping
- If sandhill dunnarts (or suspected sandhill dunnarts) are detected by camera traps, then pitfall traps should be installed at that location as recommended by the survey and monitoring guidelines (Department of Parks and Wildlife 2016).

A comprehensive survey program will require a phased process. It is anticipated that with the completion of each survey phase, the survey design will be refined.

References

Beard, J. S., Beeston, G. R., Harvey, J. M., Hopkins, A. J. M. and Shepherd, D. P. (2013) The vegetation of Western Australia at the 1:3,000,000 scale. Explanatory memoir. Second edition. Conservation Science Western Australia **9**: 1-152.

Boria, R. A., Olson, L. E., Goodman, S. M. and Anderson, R. P. (2014) Spatial filtering to reduce sampling bias can improve the performance of ecological niche models. Ecological Modelling **275**: 73-77. http://dx.doi.org/10.1016/j.ecolmodel.2013.12.012.

Chakhar, S. and Mousseau, V. (2008) Spatial multicriteria decision making, spatial. In Encyclopedia of Geographical Information Science. (Eds Shekhar, S. and Xiong, H.) pp. 747-753. (Springer: New York.)

Churchill, S. (2001a) Recovery plan for the sandhill dunnart (Sminthopsis psammophila). Department of the Environment and Heritage, South Australia.

Churchill, S. (2001b) Survey and ecological study of the sandhill dunnart, Sminthopsis psammophila, at Eyre Peninsula and the Great Victorian Desert. South Australian Department for Environment and Heritage, Adelaide.

Department of Parks and Wildlife (2016) Survey and monitoring guidelines for the sandhill dunnart (Sminthopsis psammophila) in Western Australia. Report by the Department of Parks and Wildlife for the Great Victoria Desert Biodiversity Trust, Perth.

Diaz-Balteiro, L. and Romero, C. (2008) Making forestry decisions with multiple criteria: A review and an assessment. Forest Ecology and Management **255**: 3222-3241.

Drobne, S. and Lisec, A. (2009) Multi-attribute decision analysis in GIS: Weighted linear combination and ordered weighted averaging. Informatica **33**: 459-474.

Gaikhorst, G. and Lambert, C. (2014) Sandhill dunnart - a species review and where this elusive little beast lives in Western Australia. Goldfields Environmental Management Group Workshop proceedings, Goldfields.

Kennedy, M. and Kopp, S. (2000) Understanding map projections. Environmental System Research Institute, Redlands.

Malczewski, J., Ehrgott, M., Figueira, J. R. and Greco, S. (2010) Multiple criteria decision analysis and geographic information systems. In Trends in Multiple Criteria Decision Analysis. (Eds Hillier, F. S. and Price, C. C.) International Series in Operations Research and Management Science 142 pp. 369-395. (Springer: New York.)

Mendoza, G. A. and Martins, H. (2006) Multi-criteria decision analysis in natural resource management: A critical review of methods and new modelling paradigms. Forest Ecology and Management **230**: 1-22.

Read, J. L., Ward, M. J. and Moseby, K. E. (2015) Factors that influence trap success of sandhill dunnarts (Sminthopsis psammophila) and other small mammals in Triodia dunefields of South Australia. Australian Mammalogy **37**: 212-218. http://dx.doi.org/10.1071/AM14020.

Rinner, C. and Voss, S. (2013) MCDA4ArcMap – an open-source multi-criteria decision analysis and geovisualization tool for ArcGIS 10. Cartouche, Newsletter of the Canadian Cartographic Association **86**: 12-13.

Voss, S. (2015) MCDA4ArcMap user guide version 1.1A.

Yildirim, F. and Kaya, A. (2008) Selecting map projections in minimizing area distortions in GIS applications. Sensors **8**: 7809-7817.

Appendix 1

Planning units (1,250 hectare hexagons) showing historical survey effort, habitat cover and dominant habitat type. Unsuitable habitat = lake, lagoon, claypan, rock, saltbush, bluebush and samphire.

Unit No	Sites surveyed	Habitat cover (Hectares)					Dominant habitat
		Unsuitable	Low woodland	Medium woodland	Spinifex grassland	Tall shrubland	
1			673			577	Low woodland
2		11	263			976	Tall shrubland
3			125		213	912	Tall shrubland
4			1,136			114	Low woodland
5			457			793	Tall shrubland
6					457	793	Tall shrubland
7					1,250		Spinifex grassland
8			617			633	Tall shrubland
9					147	1,103	Tall shrubland
10			134		69	1,047	Tall shrubland
11					1,250		Spinifex grassland
12					1,250		Spinifex grassland
13			1,193			57	Low woodland
14			17			1,233	Tall shrubland
15			279			971	Tall shrubland
16					1,250		Spinifex grassland
17					1,250		Spinifex grassland
18			809			441	Low woodland
19			295			955	Tall shrubland
20			201			1,049	Tall shrubland
21			588			662	Tall shrubland
22					1,250		Spinifex grassland
23					1,250		Spinifex grassland
24					1,250		Spinifex grassland
25			880			370	Low woodland
26			890			360	Low woodland
27			63			1,187	Tall shrubland
28			925			325	Low woodland
29			13		1,237		Spinifex grassland
30			247		1,003		Spinifex grassland
31					1,250		Spinifex grassland
32					1,250		Spinifex grassland
33		45	1,205				Low woodland
34			1,248			2	Low woodland
35			642			608	Low woodland
36			605			645	Tall shrubland

Unit No	Sites surveyed	Habitat cover (Hectares)					Dominant habitat
		Unsuitable	Low woodland	Medium woodland	Spinifex grassland	Tall shrubland	
37			423		827		Spinifex grassland
38					1,250		Spinifex grassland
39					1,250		Spinifex grassland
40		166	806			277	Low woodland
41		186	734			330	Low woodland
42			848			402	Low woodland
43			923			327	Low woodland
44			583			667	Tall shrubland
45					1,250		Spinifex grassland
46			751			499	Low woodland
47			1,030			220	Low woodland
48			657			593	Low woodland
49			886			364	Low woodland
50			611			639	Tall shrubland
51					1,250		Spinifex grassland
52					1,250		Spinifex grassland
53		36	993			221	Low woodland
54			24			1,226	Tall shrubland
55			882			368	Low woodland
56			916			334	Low woodland
57		38	789			423	Low woodland
58			916			334	Low woodland
59					1,250		Spinifex grassland
60					1,250		Spinifex grassland
61			269			981	Tall shrubland
62			424		91	735	Tall shrubland
63			1,152			98	Low woodland
64		511	638			101	Low woodland
65			589			661	Tall shrubland
66			759			491	Low woodland
67					1,250		Spinifex grassland
68			16			1,234	Tall shrubland
69			439		2	809	Tall shrubland
70			666		70	514	Low woodland
71		7	653			590	Low woodland
72		45	1,205				Low woodland
73			265			985	Tall shrubland
74			421			829	Tall shrubland
75			1,038			212	Low woodland
76			350		900		Spinifex grassland
77					1,250		Spinifex grassland
78					1,250		Spinifex grassland
79			1,165			85	Low woodland
80			722			528	Low woodland

Unit No	Sites surveyed	Habitat cover (Hectares)					Dominant habitat
		Unsuitable	Low woodland	Medium woodland	Spinifex grassland	Tall shrubland	
81					761	489	Spinifex grassland
82			736		26	489	Low woodland
83		33	1,217				Low woodland
84			1,134			116	Low woodland
85			1,205			45	Low woodland
86			848			402	Low woodland
87			795		455		Low woodland
88			306		944		Spinifex grassland
89		282			968		Spinifex grassland
90					1,250		Spinifex grassland
91			847			403	Low woodland
92			246		402	601	Tall shrubland
93					832	418	Spinifex grassland
94			789			461	Low woodland
95			1,250				Low woodland
96		278	236			737	Tall shrubland
97			937			313	Low woodland
98			940			310	Low woodland
99			601		649		Spinifex grassland
100		10			1,240		Spinifex grassland
101			1,121			129	Low woodland
102			820		4	426	Low woodland
103					793	457	Spinifex grassland
104			977		273		Low woodland
105			1,250				Low woodland
106			1,250				Low woodland
107			1,250				Low woodland
108			1,094			156	Low woodland
109			385		865		Spinifex grassland
110			572		678		Spinifex grassland
111			898			352	Low woodland
112					986	264	Spinifex grassland
113			199		1,051		Spinifex grassland
114			763			487	Low woodland
115			1,250				Low woodland
116			1,183			67	Low woodland
117			1,250				Low woodland
118			1,250				Low woodland
119			1,250				Low woodland
120			873		377		Low woodland
121			1,051		199		Low woodland
122					1,250		Spinifex grassland
123			876		219	155	Low woodland
124			366		438	446	Tall shrubland

Unit No	Sites surveyed	Habitat cover (Hectares)					Dominant habitat
		Unsuitable	Low woodland	Medium woodland	Spinifex grassland	Tall shrubland	
125			25		644	581	Spinifex grassland
126			1,021		178	51	Low woodland
127			1,201			49	Low woodland
128			1,250				Low woodland
129			1,250				Low woodland
130			1,250				Low woodland
131			1,250				Low woodland
132			1,176		74		Low woodland
133			362		888		Spinifex grassland
134		574	676				Low woodland
135		226	1,024				Low woodland
136		186	574		491		Low woodland
137			763		380	107	Low woodland
138			73		1,076	101	Spinifex grassland
139			24		861	365	Spinifex grassland
140			1,229			21	Low woodland
141			1,250				Low woodland
142			1,250				Low woodland
143			981			269	Low woodland
144			1,250				Low woodland
145			1,250				Low woodland
146			1,250				Low woodland
147			993		257		Low woodland
148			860		390		Low woodland
149		330	739		180		Low woodland
150			362		888		Spinifex grassland
151					929	321	Spinifex grassland
152			642			608	Low woodland
153			496			754	Tall shrubland
154			1,250				Low woodland
155			1,250				Low woodland
156			779			471	Low woodland
157			1,120			130	Low woodland
158			1,250				Low woodland
159			1,250				Low woodland
160			1,178		72		Low woodland
161			1,054		196		Low woodland
162			1,117		133		Low woodland
163			417		762	71	Spinifex grassland
164			396		854		Spinifex grassland
165		734	328		188		Unsuitable
166			64		1,145	41	Spinifex grassland
167					230	1,020	Tall shrubland
168			438		34	778	Tall shrubland

Unit No	Sites surveyed	Habitat cover (Hectares)					Dominant habitat
		Unsuitable	Low woodland	Medium woodland	Spinifex grassland	Tall shrubland	
169			1,068			182	Low woodland
170			1,183			67	Low woodland
171			1,250				Low woodland
172			437			813	Tall shrubland
173			1,250				Low woodland
174			1,250				Low woodland
175			1,250				Low woodland
176			34		1,216		Spinifex grassland
177			1,023		227		Low woodland
178			1,250				Low woodland
179					1,250		Spinifex grassland
180		123	297		829		Spinifex grassland
181		249	223		777		Spinifex grassland
182					778	472	Spinifex grassland
183					13	1,237	Tall shrubland
184			439			811	Tall shrubland
185			869			381	Low woodland
186			1,250				Low woodland
187			639			611	Low woodland
188			342			908	Tall shrubland
189			965			285	Low woodland
190			971			279	Low woodland
191			983		267		Low woodland
192			716		534		Low woodland
193			1,250				Low woodland
194			988		262		Low woodland
195					1,250		Spinifex grassland
196					1,250		Spinifex grassland
197		973			277		Unsuitable
198					1,199	51	Spinifex grassland
199					1,164	86	Spinifex grassland
200			886			364	Low woodland
201			524			726	Tall shrubland
202		80	1,012			158	Low woodland
203			1,250				Low woodland
204			174			1,076	Tall shrubland
205			1,042			208	Low woodland
206			281			969	Tall shrubland
207			676			574	Low woodland
208			762		488		Low woodland
209			1,250				Low woodland
210			936		314		Low woodland
211					1,250		Spinifex grassland
212		298			827	124	Spinifex grassland

Unit No	Sites surveyed	Habitat cover (Hectares)					Dominant habitat
		Unsuitable	Low woodland	Medium woodland	Spinifex grassland	Tall shrubland	
213		29			1,221		Spinifex grassland
214					555	695	Tall shrubland
215					93	1,157	Tall shrubland
216			1,185			65	Low woodland
217		111	715			424	Low woodland
218			1,250				Low woodland
219			1,066			184	Low woodland
220			520			730	Tall shrubland
221			790			460	Low woodland
222			35			1,215	Tall shrubland
223			505		745		Spinifex grassland
224			1,184		66		Low woodland
225			601		649		Spinifex grassland
226			466		784		Spinifex grassland
227					1,250		Spinifex grassland
228		746			130	373	Unsuitable
229					1,243	7	Spinifex grassland
230					725	525	Spinifex grassland
231			927			323	Low woodland
232			1,192			58	Low woodland
233		442	712			96	Low woodland
234			1,250				Low woodland
235			1,131			119	Low woodland
236			946			304	Low woodland
237			689			561	Low woodland
238			608			642	Tall shrubland
239			162		1,088		Spinifex grassland
240			38		1,212		Spinifex grassland
241			299		951		Spinifex grassland
242			494		756		Spinifex grassland
243			106		1,144		Spinifex grassland
244					722	528	Spinifex grassland
245					1,198	52	Spinifex grassland
246		708			542		Unsuitable
247					980	270	Spinifex grassland
248					55	1,195	Tall shrubland
249			1,250				Low woodland
250			1,219			31	Low woodland
251			1,250				Low woodland
252			1,250				Low woodland
253			1,214			36	Low woodland
254			1,250				Low woodland
255			586			664	Tall shrubland
256			1,250				Low woodland

Unit No	Sites surveyed	Habitat cover (Hectares)					Dominant habitat
		Unsuitable	Low woodland	Medium woodland	Spinifex grassland	Tall shrubland	
257			8		1,242		Spinifex grassland
258			640		610		Low woodland
259			384		866		Spinifex grassland
260			132		1,118		Spinifex grassland
261					722	528	Spinifex grassland
262		644	52		131	423	Unsuitable
263		18			1,219	12	Spinifex grassland
264					807	443	Spinifex grassland
265			194		467	589	Tall shrubland
266			1,196		15	38	Low woodland
267		318	932				Low woodland
268			1,250				Low woodland
269			1,250				Low woodland
270			1,250				Low woodland
271			1,250				Low woodland
272			942			308	Low woodland
273			1,250				Low woodland
274			510		738	2	Spinifex grassland
275					1,250		Spinifex grassland
276			1,177		73		Low woodland
277			205		1,045		Spinifex grassland
278		694			8	548	Unsuitable
279		359			306	585	Tall shrubland
280		222	814		213		Low woodland
281					981	269	Spinifex grassland
282					390	860	Tall shrubland
283			176		901	173	Spinifex grassland
284			1,250				Low woodland
285			1,194		56		Low woodland
286			1,250				Low woodland
287			1,250				Low woodland
288			1,250				Low woodland
289			1,222			28	Low woodland
290			629			621	Low woodland
291			994		3	252	Low woodland
292			11		918	321	Spinifex grassland
293			525		725		Spinifex grassland
294			544		706		Spinifex grassland
295		314			636	300	Spinifex grassland
296		129	300		794	27	Spinifex grassland
297		28			442	781	Tall shrubland
298					794	456	Spinifex grassland
299					447	803	Tall shrubland
300			1,192		58		Low woodland

Unit No	Sites surveyed	Habitat cover (Hectares)					Dominant habitat
		Unsuitable	Low woodland	Medium woodland	Spinifex grassland	Tall shrubland	
301		75	1,175				Low woodland
302			824		233	193	Low woodland
303			1,250				Low woodland
304			1,249		1		Low woodland
305			972		278		Low woodland
306			227		433	589	Tall shrubland
307			1,025			225	Low woodland
308			162		691	397	Spinifex grassland
309					523	727	Tall shrubland
310			398		852		Spinifex grassland
311			601		649		Spinifex grassland
312			68		1,182		Spinifex grassland
313		17			915	318	Spinifex grassland
314			208		506	536	Tall shrubland
315			3		1,247		Spinifex grassland
316					495	755	Tall shrubland
317					1,232	18	Spinifex grassland
318			15		1,031	204	Spinifex grassland
319		359	885		6		Low woodland
320			810		384	56	Low woodland
321			1,250				Low woodland
322			1,250				Low woodland
323			678		572		Low woodland
324			78		1,172		Spinifex grassland
325			986			263	Low woodland
326			1,250				Low woodland
327					727	523	Spinifex grassland
328			346		903	1	Spinifex grassland
329			1,121		129		Low woodland
330			571		679		Spinifex grassland
331			352		898		Spinifex grassland
332		67			1,183		Spinifex grassland
333					700	550	Spinifex grassland
334					1,249	1	Spinifex grassland
335					623	627	Tall shrubland
336					763	487	Spinifex grassland
337					1,237	13	Spinifex grassland
338		48	1,011		191		Low woodland
339			1,021		229		Low woodland
340			405		287	558	Tall shrubland
341			1,250				Low woodland
342			206		1,044		Spinifex grassland
343					1,250		Spinifex grassland
344			143		844	263	Spinifex grassland

Unit No	Sites surveyed	Habitat cover (Hectares)					Dominant habitat
		Unsuitable	Low woodland	Medium woodland	Spinifex grassland	Tall shrubland	
345			1,122		2	126	Low woodland
346			190		297	763	Tall shrubland
347			422		786	42	Spinifex grassland
348			1,250				Low woodland
349			1,213		37		Low woodland
350					1,250		Spinifex grassland
351			555		695		Spinifex grassland
352			684		566		Low woodland
353			15		990	245	Spinifex grassland
354					1,012	238	Spinifex grassland
355					1,087	163	Spinifex grassland
356					1,206	44	Spinifex grassland
357					829	421	Spinifex grassland
358			857		367	26	Low woodland
359		441	661		148		Low woodland
360			752		496	2	Low woodland
361			1,181			69	Low woodland
362			793		457		Low woodland
363					1,250		Spinifex grassland
364					1,032	218	Spinifex grassland
365			642		444	164	Low woodland
366			547		703		Spinifex grassland
367					621	629	Tall shrubland
368			1,169		81		Low woodland
369			1,250				Low woodland
370			763		487		Low woodland
371			109		1,141		Spinifex grassland
372			337		913		Spinifex grassland
373			532		718		Spinifex grassland
374			212		1,024	14	Spinifex grassland
375					836	414	Spinifex grassland
376					607	643	Tall shrubland
377					879	371	Spinifex grassland
378					1,056	194	Spinifex grassland
379					864	386	Spinifex grassland
380		949	301				Unsuitable
381			429		641	179	Spinifex grassland
382			241		968	41	Spinifex grassland
383			1,012		238		Low woodland
384			418		832		Spinifex grassland
385					1,250		Spinifex grassland
386			549		701		Spinifex grassland
387			239		495	516	Tall shrubland
388					1,231	19	Spinifex grassland

Unit No	Sites surveyed	Habitat cover (Hectares)					Dominant habitat
		Unsuitable	Low woodland	Medium woodland	Spinifex grassland	Tall shrubland	
389		62	781		407		Low woodland
390			1,250				Low woodland
391			1,044			206	Low woodland
392			99		912	239	Spinifex grassland
393			68		1,182		Spinifex grassland
394			781		469		Low woodland
395					1,250		Spinifex grassland
396			380		870		Spinifex grassland
397					484	766	Tall shrubland
398					698	552	Spinifex grassland
399					444	806	Tall shrubland
400					1,250		Spinifex grassland
401			225		426	598	Tall shrubland
402		419	413		342	75	Unsuitable
403		86	593		464	107	Low woodland
404			111		690	449	Spinifex grassland
405			868		382		Low woodland
406					1,250		Spinifex grassland
407			128		1,122		Spinifex grassland
408					1,244	6	Spinifex grassland
409			170		1,036	45	Spinifex grassland
410			210		848	192	Spinifex grassland
411		78			1,172		Spinifex grassland
412			457		793		Spinifex grassland
413			1,244			6	Low woodland
414			246			1,004	Tall shrubland
415			431		819		Spinifex grassland
416			864		386		Low woodland
417			413		837		Spinifex grassland
418		4			1,246		Spinifex grassland
419			87		1,163		Spinifex grassland
420					1,124	126	Spinifex grassland
421					1,039	211	Spinifex grassland
422					151	1,099	Tall shrubland
423					1,206	44	Spinifex grassland
424					1,156	94	Spinifex grassland
425		244	432		426	147	Low woodland
426		350	382		518		Spinifex grassland
427					289	961	Tall shrubland
428			1,003		247		Low woodland
429			220		913	117	Spinifex grassland
430			440		810		Spinifex grassland
431			185		1,065		Spinifex grassland
432					1,250		Spinifex grassland

Unit No	Sites surveyed	Habitat cover (Hectares)					Dominant habitat
		Unsuitable	Low woodland	Medium woodland	Spinifex grassland	Tall shrubland	
433			400		380	470	Tall shrubland
434			328		651	271	Spinifex grassland
435			844		406		Low woodland
436			496		699	55	Spinifex grassland
437			898			352	Low woodland
438			534		52	664	Tall shrubland
439			1,081		169		Low woodland
440			827		423		Low woodland
441					1,250		Spinifex grassland
442					1,250		Spinifex grassland
443					1,250		Spinifex grassland
444			53		1,197		Spinifex grassland
445			90		948	212	Spinifex grassland
446					1,090	160	Spinifex grassland
447					697	553	Spinifex grassland
448					1,018	232	Spinifex grassland
449		15			962	273	Spinifex grassland
450		122	773		258	97	Low woodland
451					517	733	Tall shrubland
452			16		765	469	Spinifex grassland
453			300		592	359	Spinifex grassland
454					1,250		Spinifex grassland
455			716		534		Low woodland
456			77		1,173		Spinifex grassland
457					1,242	8	Spinifex grassland
458			860		118	272	Low woodland
459					1,197	53	Spinifex grassland
460			178		1,072		Spinifex grassland
461			134		422	693	Tall shrubland
462			240			1,010	Tall shrubland
463			845		388	18	Low woodland
464			1,250				Low woodland
465			391		859		Spinifex grassland
466					1,250		Spinifex grassland
467					1,250		Spinifex grassland
468			162		1,088		Spinifex grassland
469			350		900		Spinifex grassland
470					839	411	Spinifex grassland
471					166	1,084	Tall shrubland
472					989	261	Spinifex grassland
473		186	428		326	311	Low woodland
474					1,046	204	Spinifex grassland
475					395	855	Tall shrubland
476			187		1,063		Spinifex grassland

Unit No	Sites surveyed	Habitat cover (Hectares)					Dominant habitat
		Unsuitable	Low woodland	Medium woodland	Spinifex grassland	Tall shrubland	
477					688	562	Spinifex grassland
478			484		766		Spinifex grassland
479			342		908		Spinifex grassland
480			7		1,106	138	Spinifex grassland
481			131		485	634	Tall shrubland
482					1,108	142	Spinifex grassland
483			496		754		Spinifex grassland
484					1,250		Spinifex grassland
485					548	702	Tall shrubland
486			53			1,197	Tall shrubland
487			1,105		145		Low woodland
488			1,234		16		Low woodland
489					1,250		Spinifex grassland
490					1,250		Spinifex grassland
491			41		1,209		Spinifex grassland
492			378		872		Spinifex grassland
493					640	610	Spinifex grassland
494					6	1,244	Tall shrubland
495		121	58		589	482	Spinifex grassland
496					789	461	Spinifex grassland
497					480	770	Tall shrubland
498			128		1,012	110	Spinifex grassland
499					414	836	Tall shrubland
500					1,250		Spinifex grassland
501			531		589	129	Spinifex grassland
502			354		704	192	Spinifex grassland
503					1,000	250	Spinifex grassland
504					1,250		Spinifex grassland
505			4		1,246		Spinifex grassland
506					1,250		Spinifex grassland
507					1,250		Spinifex grassland
508					879	371	Spinifex grassland
509			646		102	502	Low woodland
510			785		465		Low woodland
511			136		1,114		Spinifex grassland
512					1,250		Spinifex grassland
513			362		888		Spinifex grassland
514			112		1,138		Spinifex grassland
515					698	552	Spinifex grassland
516					1,058	192	Spinifex grassland
517		160	274		312	504	Tall shrubland
518			21		737	492	Spinifex grassland
519		1			523	726	Tall shrubland
520		108			794	348	Spinifex grassland

Unit No	Sites surveyed	Habitat cover (Hectares)					Dominant habitat
		Unsuitable	Low woodland	Medium woodland	Spinifex grassland	Tall shrubland	
521			712		538		Low woodland
522					293	957	Tall shrubland
523					1,031	219	Spinifex grassland
524			434		399	417	Low woodland
525					778	472	Spinifex grassland
526					1,061	189	Spinifex grassland
527					1,250		Spinifex grassland
528	4		271		979		Spinifex grassland
529					1,250		Spinifex grassland
530					1,246	4	Spinifex grassland
531					1,040	210	Spinifex grassland
532			149		1,092	9	Spinifex grassland
533			329		921		Spinifex grassland
534					1,250		Spinifex grassland
535			456		794		Spinifex grassland
536			445		805		Spinifex grassland
537					166	1,084	Tall shrubland
538		175			644	431	Spinifex grassland
539			149		389	712	Tall shrubland
540		103			653	494	Spinifex grassland
541		321			864	65	Spinifex grassland
542		626	140		140	345	Unsuitable
543			197		610	443	Spinifex grassland
544					1,114	136	Spinifex grassland
545					81	1,169	Tall shrubland
546					1,155	95	Spinifex grassland
547					1,011	239	Spinifex grassland
548					1,204	46	Spinifex grassland
549	1				1,250		Spinifex grassland
550					1,250		Spinifex grassland
551					1,250		Spinifex grassland
552			322		928		Spinifex grassland
553		84			779	387	Spinifex grassland
554					1,250		Spinifex grassland
555					1,250		Spinifex grassland
556			141		1,109		Spinifex grassland
557			444		806		Spinifex grassland
558			61		1,189		Spinifex grassland
559			28		1,150	72	Spinifex grassland
560		53			891	306	Spinifex grassland
561			1,060		2	188	Low woodland
562			534		349	367	Low woodland
563		480			456	314	Unsuitable
564		915	198		137		Unsuitable

Unit No	Sites surveyed	Habitat cover (Hectares)					Dominant habitat
		Unsuitable	Low woodland	Medium woodland	Spinifex grassland	Tall shrubland	
565		468	702		79		Low woodland
566			387		296	567	Tall shrubland
567					965	285	Spinifex grassland
568			42		924	284	Spinifex grassland
569					1,247	3	Spinifex grassland
570					1,072	178	Spinifex grassland
571	1				1,241	9	Spinifex grassland
572					1,250		Spinifex grassland
573					1,250		Spinifex grassland
574			186		1,064		Spinifex grassland
575			441		809		Spinifex grassland
576		149			1,098	3	Spinifex grassland
577					1,250		Spinifex grassland
578					1,250		Spinifex grassland
579			230		1,020		Spinifex grassland
580			1,152		98		Low woodland
581			265		985		Spinifex grassland
582			293		503	454	Spinifex grassland
583		113	30		377	730	Tall shrubland
584			371		879		Spinifex grassland
585		61			749	440	Spinifex grassland
586		185	158		907		Spinifex grassland
587		581	199		470		Unsuitable
588		432	567		252		Low woodland
589			458		717	75	Spinifex grassland
590			590		351	310	Low woodland
591					1,250		Spinifex grassland
592					1,094	156	Spinifex grassland
593					267	983	Tall shrubland
594	1				1,120	130	Spinifex grassland
595					1,250		Spinifex grassland
596					1,250		Spinifex grassland
597			1,250				Low woodland
598			275		975		Spinifex grassland
599		312			938		Spinifex grassland
600		53			1,197		Spinifex grassland
601					1,250		Spinifex grassland
602			292		958		Spinifex grassland
603			449		801		Spinifex grassland
604			131		1,119		Spinifex grassland
605			191		1,059		Spinifex grassland
606			1,029		221		Low woodland
607			481		769		Spinifex grassland
608			679		571		Low woodland

Unit No	Sites surveyed	Habitat cover (Hectares)					Dominant habitat
		Unsuitable	Low woodland	Medium woodland	Spinifex grassland	Tall shrubland	
609		31	21		1,198		Spinifex grassland
610		84	533		633		Spinifex grassland
611		699	551				Unsuitable
612		442	514		294		Low woodland
613			466		659	125	Spinifex grassland
614			353		897		Spinifex grassland
615					1,250		Spinifex grassland
616			94		1,156		Spinifex grassland
617	1	178			16	1,057	Tall shrubland
618			343		901	6	Spinifex grassland
619					1,250		Spinifex grassland
620			971		279		Low woodland
621			1,250				Low woodland
622			136		1,114		Spinifex grassland
623		73	535		642		Spinifex grassland
624			77		1,173		Spinifex grassland
625	1				1,250		Spinifex grassland
626		28			1,222		Spinifex grassland
627			187		1,063		Spinifex grassland
628			700		550		Low woodland
629			835		415		Low woodland
630			303		947		Spinifex grassland
631			218		706	327	Spinifex grassland
632			515		735		Spinifex grassland
633			203		1,047		Spinifex grassland
634			757		493		Low woodland
635			550		700		Spinifex grassland
636		190	982		78		Low woodland
637			824		426		Low woodland
638			443		807		Spinifex grassland
639			605		645		Spinifex grassland
640			465		621	164	Spinifex grassland
641		205			930	115	Spinifex grassland
642		140	66		382	662	Tall shrubland
643			99		1,151		Spinifex grassland
644			91		1,159		Spinifex grassland
645			1,250				Low woodland
646			818		432		Low woodland
647			419		831		Spinifex grassland
648		82	1,148		21		Low woodland
649			108		1,142		Spinifex grassland
650					1,250		Spinifex grassland
651		127	162		961		Spinifex grassland
652			323		927		Spinifex grassland

Unit No	Sites surveyed	Habitat cover (Hectares)					Dominant habitat
		Unsuitable	Low woodland	Medium woodland	Spinifex grassland	Tall shrubland	
653			215		1,035		Spinifex grassland
654			436		814		Spinifex grassland
655			444		755	51	Spinifex grassland
656			999		251		Low woodland
657			202		1,048		Spinifex grassland
658			75		1,175		Spinifex grassland
659			65		1,185		Spinifex grassland
660	1		585		665		Spinifex grassland
661		21	1,047		182		Low woodland
662			208		1,042		Spinifex grassland
663			969		281		Low woodland
664			836		414		Low woodland
665			84		1,166		Spinifex grassland
666		39			811	401	Spinifex grassland
667			482		768		Spinifex grassland
668			222		1,028		Spinifex grassland
669			1,250				Low woodland
670			1,198		52		Low woodland
671			946		304		Low woodland
672			1,250				Low woodland
673	1	182	450		618		Spinifex grassland
674	4		135		1,115		Spinifex grassland
675					1,250		Spinifex grassland
676		118	145		987		Spinifex grassland
677			653		597		Low woodland
678			79		1,171		Spinifex grassland
679			360		890		Spinifex grassland
680			491		759		Spinifex grassland
681			373		877		Spinifex grassland
682					1,250		Spinifex grassland
683					1,250		Spinifex grassland
684			99		1,151		Spinifex grassland
685			897		353		Low woodland
686	3		362		888		Spinifex grassland
687			142		1,108		Spinifex grassland
688			674		576		Low woodland
689			274		498	477	Spinifex grassland
690					1,250		Spinifex grassland
691					1,250		Spinifex grassland
692			386		864		Spinifex grassland
693			1,065		185		Low woodland
694	1		1,250				Low woodland
695			1,250				Low woodland

Unit No	Sites surveyed	Habitat cover (Hectares)					Dominant habitat
		Unsuitable	Low woodland	Medium woodland	Spinifex grassland	Tall shrubland	
696			1,250				Low woodland
697			1,228		22		Low woodland
698	2		335		915		Spinifex grassland
699			1		1,249		Spinifex grassland
700		70	76		1,104		Spinifex grassland
701		107	91		1,052		Spinifex grassland
702			244		1,006		Spinifex grassland
703			739		511		Low woodland
704			551		699		Spinifex grassland
705			483		767		Spinifex grassland
706					1,250		Spinifex grassland
707			92		1,158		Spinifex grassland
708			153		1,097		Spinifex grassland
709					1,250		Spinifex grassland
710			567		683		Spinifex grassland
711	3				1,250		Spinifex grassland
712					1,250		Spinifex grassland
713			595		612	43	Spinifex grassland
714					1,250		Spinifex grassland
715					1,250		Spinifex grassland
716			355		895		Spinifex grassland
717			158		1,092		Spinifex grassland
718			1,075		175		Low woodland
719			1,250				Low woodland
720			1,250				Low woodland
721			1,250				Low woodland
722			467		783		Spinifex grassland
723			438		812		Spinifex grassland
724		28	334		888		Spinifex grassland
725			525		725		Spinifex grassland
726			415		835		Spinifex grassland
727			262		988		Spinifex grassland
728			65		1,185		Spinifex grassland
729			5		1,245		Spinifex grassland
730			39		1,211		Spinifex grassland
731		181	13		1,056		Spinifex grassland
732			89		1,161		Spinifex grassland
733			72		1,178		Spinifex grassland
734	2				1,250		Spinifex grassland
735					1,250		Spinifex grassland
736			45		1,205		Spinifex grassland
737					1,250		Spinifex grassland
738					1,250		Spinifex grassland
739					1,250		Spinifex grassland

Unit No	Sites surveyed	Habitat cover (Hectares)					Dominant habitat
		Unsuitable	Low woodland	Medium woodland	Spinifex grassland	Tall shrubland	
740			211		1,039		Spinifex grassland
741			240		1,010		Spinifex grassland
742			1,250				Low woodland
743			1,250				Low woodland
744			1,250				Low woodland
745			1,178		72		Low woodland
746					1,250		Spinifex grassland
747		23	262		965		Spinifex grassland
748		234			1,016		Spinifex grassland
749			411		839		Spinifex grassland
750			902		348		Low woodland
751			206		1,044		Spinifex grassland
752			102		1,148		Spinifex grassland
753			279		971		Spinifex grassland
754			65		1,185		Spinifex grassland
755			96		1,154		Spinifex grassland
756					1,250		Spinifex grassland
757					1,250		Spinifex grassland
758					1,250		Spinifex grassland
759					1,250		Spinifex grassland
760			86		1,164		Spinifex grassland
761			2		1,248		Spinifex grassland
762					1,250		Spinifex grassland
763			392		858		Spinifex grassland
764			328		922		Spinifex grassland
765			1,249		1		Low woodland
766			1,250				Low woodland
767			1,250				Low woodland
768			1,250				Low woodland
769			282		968		Spinifex grassland
770		102	171		977		Spinifex grassland
771			494		756		Spinifex grassland
772			166		1,084		Spinifex grassland
773			341		909		Spinifex grassland
774			68		1,182		Spinifex grassland
775			3		1,247		Spinifex grassland
776					1,250		Spinifex grassland
777					1,250		Spinifex grassland
778					1,250		Spinifex grassland
779					1,250		Spinifex grassland
780					1,250		Spinifex grassland
781					1,250		Spinifex grassland
782			177		1,073		Spinifex grassland
783			4		1,246		Spinifex grassland

Unit No	Sites surveyed	Habitat cover (Hectares)					Dominant habitat
		Unsuitable	Low woodland	Medium woodland	Spinifex grassland	Tall shrubland	
784			326		924		Spinifex grassland
785			383		867		Spinifex grassland
786			3		1,247		Spinifex grassland
787			1,205		45		Low woodland
788	1		1,017		233		Low woodland
789			958		292		Low woodland
790			1,076		174		Low woodland
791			1,191		59		Low woodland
792			169		1,081		Spinifex grassland
793			451		799		Spinifex grassland
794		289	173		788		Spinifex grassland
795			279		971		Spinifex grassland
796			368		882		Spinifex grassland
797			280		970		Spinifex grassland
798					1,250		Spinifex grassland
799			46		1,204		Spinifex grassland
800					1,250		Spinifex grassland
801			211		1,039		Spinifex grassland
802			282		968		Spinifex grassland
803					1,250		Spinifex grassland
804					1,250		Spinifex grassland
805			195		1,055		Spinifex grassland
806			51		1,199		Spinifex grassland
807			115		1,135		Spinifex grassland
808			254		996		Spinifex grassland
809			160		1,090		Spinifex grassland
810	1		163		1,087		Spinifex grassland
811	1		543		707		Spinifex grassland
812			306		944		Spinifex grassland
813			848		402		Low woodland
814			397		853		Spinifex grassland
815			369		881		Spinifex grassland
816			354		896		Spinifex grassland
817			429		821		Spinifex grassland
818		47	406		797		Spinifex grassland
819			293		957		Spinifex grassland
820			192		1,058		Spinifex grassland
821					1,250		Spinifex grassland
822					1,250		Spinifex grassland
823			849		401		Low woodland
824			956		294		Low woodland
825			65		1,185		Spinifex grassland
826					1,250		Spinifex grassland
827			189		1,061		Spinifex grassland

Unit No	Sites surveyed	Habitat cover (Hectares)					Dominant habitat
		Unsuitable	Low woodland	Medium woodland	Spinifex grassland	Tall shrubland	
828			3		1,247		Spinifex grassland
829					1,250		Spinifex grassland
830					1,250		Spinifex grassland
831			922		328		Low woodland
832					1,250		Spinifex grassland
833					1,250		Spinifex grassland
834					1,250		Spinifex grassland
835			233		1,017		Spinifex grassland
836			6		1,244		Spinifex grassland
837					1,250		Spinifex grassland
838					1,250		Spinifex grassland
839		291	79		880		Spinifex grassland
840		281	506		464		Low woodland
841			256		994		Spinifex grassland
842			19		1,231		Spinifex grassland
843					1,250		Spinifex grassland
844			208		1,042		Spinifex grassland
845					1,250		Spinifex grassland
846		375	875				Low woodland
847			1,111		139		Low woodland
848			171		1,079		Spinifex grassland
849			169		1,081		Spinifex grassland
850					1,250		Spinifex grassland
851			634		616		Low woodland
852					1,250		Spinifex grassland
853			359		891		Spinifex grassland
854			295		955		Spinifex grassland
855			70		1,180		Spinifex grassland
856					1,250		Spinifex grassland
857					1,250		Spinifex grassland
858					1,250		Spinifex grassland
859					1,250		Spinifex grassland
860					1,250		Spinifex grassland
861			215		1,035		Spinifex grassland
862		290	10		950		Spinifex grassland
863		280	282		688		Spinifex grassland
864			1		1,249		Spinifex grassland
865					1,250		Spinifex grassland
866			242		1,008		Spinifex grassland
867			47		1,203		Spinifex grassland
868		473	566		211		Low woodland
869		760	490				Unsuitable
870			349		901		Spinifex grassland
871			235		1,015		Spinifex grassland

Unit No	Sites surveyed	Habitat cover (Hectares)					Dominant habitat
		Unsuitable	Low woodland	Medium woodland	Spinifex grassland	Tall shrubland	
872					1,250		Spinifex grassland
873					1,250		Spinifex grassland
874			22		1,228		Spinifex grassland
875					1,250		Spinifex grassland
876			1,250				Low woodland
877			35		1,215		Spinifex grassland
878			114		1,136		Spinifex grassland
879	1				1,250		Spinifex grassland
880					1,250		Spinifex grassland
881					1,250		Spinifex grassland
882					1,250		Spinifex grassland
883					1,250		Spinifex grassland
884		6	745		499		Low woodland
885		44	404		801		Spinifex grassland
886			137		1,113		Spinifex grassland
887					1,250		Spinifex grassland
888			243		1,007		Spinifex grassland
889		29			1,221		Spinifex grassland
890		529	78		643		Spinifex grassland
891		62	737		452		Low woodland
892		516	661		73		Low woodland
893			982		268		Low woodland
894			476		774		Spinifex grassland
895			192		1,058		Spinifex grassland
896			456		794		Spinifex grassland
897					1,250		Spinifex grassland
898			590		660		Spinifex grassland
899			1,036		214		Low woodland
900			549		701		Spinifex grassland
901			89		1,161		Spinifex grassland
902					1,250		Spinifex grassland
903					1,250		Spinifex grassland
904					1,250		Spinifex grassland
905					1,250		Spinifex grassland
906					1,250		Spinifex grassland
907			106		1,144		Spinifex grassland
908		393	155		703		Spinifex grassland
909			212		1,038		Spinifex grassland
910					1,250		Spinifex grassland
911		121	264		865		Spinifex grassland
912			40		1,210		Spinifex grassland
913			147		1,103		Spinifex grassland
914		343	251		656		Spinifex grassland
915		144	1,106				Low woodland

Unit No	Sites surveyed	Habitat cover (Hectares)					Dominant habitat
		Unsuitable	Low woodland	Medium woodland	Spinifex grassland	Tall shrubland	
916			830		420		Low woodland
917			683		567		Low woodland
918					1,250		Spinifex grassland
919			214		1,036		Spinifex grassland
920					1,250		Spinifex grassland
921			1,250				Low woodland
922					1,250		Spinifex grassland
923					1,250		Spinifex grassland
924					1,250		Spinifex grassland
925					1,250		Spinifex grassland
926			531		719		Spinifex grassland
927			594		656		Spinifex grassland
928		216	183		851		Spinifex grassland
929			231		1,019		Spinifex grassland
930		96			1,154		Spinifex grassland
931		29	275		947		Spinifex grassland
932			67		1,183		Spinifex grassland
933			111		1,139		Spinifex grassland
934	3	336	200		714		Spinifex grassland
935			1,131		119		Low woodland
936			1,239		11		Low woodland
937			246		1,004		Spinifex grassland
938			642		608		Low woodland
939					1,250		Spinifex grassland
940			729		521		Low woodland
941					1,250		Spinifex grassland
942					1,250		Spinifex grassland
943			713		537		Low woodland
944			420		830		Spinifex grassland
945		5	188		1,056		Spinifex grassland
946		98	137		1,015		Spinifex grassland
947		69			1,181		Spinifex grassland
948			355		895		Spinifex grassland
949					1,250		Spinifex grassland
950			1		1,249		Spinifex grassland
951		118	1,132				Low woodland
952			1,250				Low woodland
953			244		1,006		Spinifex grassland
954					1,250		Spinifex grassland
955			65		1,185		Spinifex grassland
956					1,250		Spinifex grassland
957			618		632		Spinifex grassland
958			241		1,009		Spinifex grassland
959		169	156		924		Spinifex grassland

Unit No	Sites surveyed	Habitat cover (Hectares)					Dominant habitat
		Unsuitable	Low woodland	Medium woodland	Spinifex grassland	Tall shrubland	
960			634		616		Low woodland
961		67	37		1,146		Spinifex grassland
962			222		1,028		Spinifex grassland
963					1,250		Spinifex grassland
964			294		956		Spinifex grassland
965		469	34		747		Spinifex grassland
966			1,247		3		Low woodland
967			500		750		Spinifex grassland
968					1,250		Spinifex grassland
969			299		951		Spinifex grassland
970					1,250		Spinifex grassland
971			417		833		Spinifex grassland
972		244	8		998		Spinifex grassland
973		132	351		768		Spinifex grassland
974		218	136		895		Spinifex grassland
975					1,250		Spinifex grassland
976			222		1,028		Spinifex grassland
977					1,250		Spinifex grassland
978			2		1,248		Spinifex grassland
979		14	656		580		Low woodland
980			476		774		Spinifex grassland
981					1,250		Spinifex grassland
982					1,250		Spinifex grassland
983					1,250		Spinifex grassland
984		210	102		938		Spinifex grassland
985		189	1		1,060		Spinifex grassland
986		371	90		789		Spinifex grassland
987			102		1,148		Spinifex grassland
988					1,250		Spinifex grassland
989			171		1,079		Spinifex grassland
990			60		1,190		Spinifex grassland
991		280			970		Spinifex grassland
992			22		1,228		Spinifex grassland
993					1,250		Spinifex grassland
994					1,250		Spinifex grassland
995					1,250		Spinifex grassland
996			146		1,104		Spinifex grassland
997			406		844		Spinifex grassland
998			756		494		Low woodland
999			285		965		Spinifex grassland
1000			171		1,079		Spinifex grassland
1001			396		854		Spinifex grassland
1002			152		1,098		Spinifex grassland
1003					1,250		Spinifex grassland

Unit No	Sites surveyed	Habitat cover (Hectares)					Dominant habitat
		Unsuitable	Low woodland	Medium woodland	Spinifex grassland	Tall shrubland	
1004		308			942		Spinifex grassland
1005					1,250		Spinifex grassland
1006		49			1,201		Spinifex grassland
1007					1,250		Spinifex grassland
1008			180		1,070		Spinifex grassland
1009		258	684		308		Low woodland
1010			310		940		Spinifex grassland
1011		838	264		148		Unsuitable
1012					1,250		Spinifex grassland
1013			269		981		Spinifex grassland
1014			153		1,097		Spinifex grassland
1015			261		989		Spinifex grassland
1016			324		926		Spinifex grassland
1017		171			1,079		Spinifex grassland
1018		721			529		Unsuitable
1019					1,250		Spinifex grassland
1020					1,250		Spinifex grassland
1021			768		482		Low woodland
1022		124	295		831		Spinifex grassland
1023		39	1		1,209		Spinifex grassland
1024			444		806		Spinifex grassland
1025			38		1,212		Spinifex grassland
1026	3				1,250		Spinifex grassland
1027			444		806		Spinifex grassland
1028	3	14	52		1,184		Spinifex grassland
1029					1,250		Spinifex grassland
1030		52			1,198		Spinifex grassland
1031					1,250		Spinifex grassland
1032			266		984		Spinifex grassland
1033		601	351		298		Unsuitable
1034					1,250		Spinifex grassland
1035					1,250		Spinifex grassland
1036	1		123		1,127		Spinifex grassland
1037	8		212		1,038		Spinifex grassland
1038	19		1,242		8		Low woodland
1039					1,250		Spinifex grassland
1040		217			1,033		Spinifex grassland
1041					1,250		Spinifex grassland
1042		245	762		243		Low woodland
1043		703	291		257		Unsuitable
1044			91		1,159		Spinifex grassland
1045			326		924		Spinifex grassland
1046					1,250		Spinifex grassland

Unit No	Sites surveyed	Habitat cover (Hectares)					Dominant habitat
		Unsuitable	Low woodland	Medium woodland	Spinifex grassland	Tall shrubland	
1047			616		634		Spinifex grassland
1048	7		759		491		Low woodland
1049			202		1,048		Spinifex grassland
1050					1,250		Spinifex grassland
1051		5			1,245		Spinifex grassland
1052		191	43		1,016		Spinifex grassland
1053		217			1,033		Spinifex grassland
1054					1,250		Spinifex grassland
1055					1,250		Spinifex grassland
1056			59		1,191		Spinifex grassland
1057			710		540		Low woodland
1058			1,234		16		Low woodland
1059					1,250		Spinifex grassland
1060		262	364		625		Spinifex grassland
1061		857	91		302		Unsuitable
1062		973			277		Unsuitable
1063			313		937		Spinifex grassland
1064			240		1,010		Spinifex grassland
1065			173		1,077		Spinifex grassland
1066			449		801		Spinifex grassland
1067			1,250				Low woodland
1068			436		814		Spinifex grassland
1069					1,250		Spinifex grassland
1070					1,250		Spinifex grassland
1071		590			660		Spinifex grassland
1072		162	99		989		Spinifex grassland
1073					1,250		Spinifex grassland
1074			181		1,069		Spinifex grassland
1075			993		257		Low woodland
1076	4		513		737		Spinifex grassland
1077			1,250				Low woodland
1078	7				1,250		Spinifex grassland
1079			821		429		Low woodland
1080		1,029			221		Unsuitable
1081		807			443		Unsuitable
1082		379	117		754		Spinifex grassland
1083					1,250		Spinifex grassland
1084	2		671		579		Low woodland
1085	8		512		738		Spinifex grassland
1086			574		676		Spinifex grassland
1087			129		1,121		Spinifex grassland
1088	1		3		1,247		Spinifex grassland
1089		677			573		Unsuitable

Unit No	Sites surveyed	Habitat cover (Hectares)					Dominant habitat
		Unsuitable	Low woodland	Medium woodland	Spinifex grassland	Tall shrubland	
1090		1,209			41		Unsuitable
1091		549			701		Spinifex grassland
1092	1	230			1,020		Spinifex grassland
1093					1,250		Spinifex grassland
1094	5		323		927		Spinifex grassland
1095			125		1,125		Spinifex grassland
1096			761		489		Low woodland
1097					1,250		Spinifex grassland
1098			159		1,091		Spinifex grassland
1099		244			1,006		Spinifex grassland
1100		1,022			228		Unsuitable
1101		1,054			196		Unsuitable
1102		20			1,230		Spinifex grassland
1103					1,250		Spinifex grassland
1104			669		581		Low woodland
1105					1,250		Spinifex grassland
1106			4		1,246		Spinifex grassland
1107					1,250		Spinifex grassland
1108					1,250		Spinifex grassland
1109					1,250		Spinifex grassland
1110		23			1,227		Spinifex grassland
1111		678			572		Unsuitable
1112		614			636		Spinifex grassland
1113		170			1,080		Spinifex grassland
1114					1,250		Spinifex grassland
1115					1,250		Spinifex grassland
1116					1,250		Spinifex grassland
1117					1,250		Spinifex grassland
1118					1,250		Spinifex grassland
1119					1,250		Spinifex grassland
1120					1,250		Spinifex grassland
1121		116			1,134		Spinifex grassland
1122		440			810		Spinifex grassland
1123		119	66		1,065		Spinifex grassland
1124					1,250		Spinifex grassland
1125					1,250		Spinifex grassland
1126					1,250		Spinifex grassland
1127					1,250		Spinifex grassland
1128					1,250		Spinifex grassland
1129		58			1,192		Spinifex grassland
1130					1,250		Spinifex grassland
1131		51			1,199		Spinifex grassland
1132			132		1,118		Spinifex grassland
1133					1,250		Spinifex grassland

Unit No	Sites surveyed	Habitat cover (Hectares)					Dominant habitat
		Unsuitable	Low woodland	Medium woodland	Spinifex grassland	Tall shrubland	
1134					1,250		Spinifex grassland
1135					1,250		Spinifex grassland
1136					1,250		Spinifex grassland
1137					1,250		Spinifex grassland
1138					1,250		Spinifex grassland
1139					1,250		Spinifex grassland
1140			19		1,231		Spinifex grassland
1141			261		989		Spinifex grassland
1142					1,250		Spinifex grassland
1143					1,250		Spinifex grassland
1144			595		655		Spinifex grassland
1145					1,250		Spinifex grassland
1146					1,250		Spinifex grassland
1147	4				1,250		Spinifex grassland
1148	7				1,250		Spinifex grassland
1149	1		374		876		Spinifex grassland
1150					1,250		Spinifex grassland
1151					1,250		Spinifex grassland
1152			49		1,201		Spinifex grassland
1153			617		633		Spinifex grassland
1154					1,250		Spinifex grassland
1155	2				1,250		Spinifex grassland
1156	13				1,250		Spinifex grassland
1157	5		70		1,180		Spinifex grassland
1158					1,250		Spinifex grassland
1159					1,250		Spinifex grassland
1160			170		1,080		Spinifex grassland
1161					1,250		Spinifex grassland
1162					1,250		Spinifex grassland
1163					1,250		Spinifex grassland
1164	29				1,250		Spinifex grassland
1165	6				1,250		Spinifex grassland
1166					1,250		Spinifex grassland
1167					1,250		Spinifex grassland
1168			384		866		Spinifex grassland
1169					1,250		Spinifex grassland
1170					1,250		Spinifex grassland
1171					1,250		Spinifex grassland
1172	4				1,250		Spinifex grassland
1173	2				1,250		Spinifex grassland
1174					1,250		Spinifex grassland
1175					1,250		Spinifex grassland
1176					1,250		Spinifex grassland

Unit No	Sites surveyed	Habitat cover (Hectares)					Dominant habitat
		Unsuitable	Low woodland	Medium woodland	Spinifex grassland	Tall shrubland	
1177					1,250		Spinifex grassland
1178					1,250		Spinifex grassland
1179					1,250		Spinifex grassland
1180	3				1,250		Spinifex grassland
1181			37		1,213		Spinifex grassland
1182					1,250		Spinifex grassland
1183					1,250		Spinifex grassland
1184			332		918		Spinifex grassland
1185					1,250		Spinifex grassland
1186					1,250		Spinifex grassland
1187	9				1,250		Spinifex grassland
1188	5		169		1,081		Spinifex grassland
1189					1,250		Spinifex grassland
1190		44			1,206		Spinifex grassland
1191					1,250		Spinifex grassland
1192					1,250		Spinifex grassland
1193					1,250		Spinifex grassland
1194	9				1,250		Spinifex grassland
1195			315		935		Spinifex grassland
1196					1,250		Spinifex grassland
1197					1,250		Spinifex grassland
1198					1,250		Spinifex grassland
1199	5				1,250		Spinifex grassland
1200	3				1,250		Spinifex grassland
1201					1,250		Spinifex grassland
1202			58		1,192		Spinifex grassland
1203		158			1,092		Spinifex grassland
1204					1,250		Spinifex grassland
1205					1,250		Spinifex grassland
1206					1,250		Spinifex grassland
1207					1,250		Spinifex grassland
1208		42			1,208		Spinifex grassland
1209					1,250		Spinifex grassland
1210					1,250		Spinifex grassland
1211					1,250		Spinifex grassland
1212					1,250		Spinifex grassland
1213					1,250		Spinifex grassland
1214					1,250		Spinifex grassland
1215					1,250		Spinifex grassland
1216				57	1,193		Spinifex grassland
1217					1,250		Spinifex grassland
1218					1,250		Spinifex grassland
1219					1,250		Spinifex grassland

Unit No	Sites surveyed	Habitat cover (Hectares)					Dominant habitat
		Unsuitable	Low woodland	Medium woodland	Spinifex grassland	Tall shrubland	
1220				144	1,106		Spinifex grassland
1221					1,250		Spinifex grassland