

**ASSESSMENT OF VERTEBRATE FAUNA PRIOR TO  
DISTURBANCE - TIMBER HARVESTING AND  
PRESCRIBED BURNING IN THE FORESTS OF  
WESTERN AUSTRALIA.**

**THE FOREST FAUNA DISTRIBUTION INFORMATION SYSTEM**

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## **Fauna Assessment Prior To Timber Harvesting And Prescribed Burning Operations.**

### **Executive Summary**

Western Australia's State Forests contain one of the least altered faunas of any of the major ecosystems in Australia which makes the forests a very important conservation reserve. Our forest fauna has lived through 150 years of wood harvesting and over 40 years of regular prescribed burning without any evidence of major problems.

There is nevertheless a group of 'sensitive' species that should be taken into account when planning for timber harvesting or prescribed burning operations. When planning for deliberate disturbances such as timber harvesting and regeneration and prescribed burning especial care needs to be taken to ensure that the future of none of these 'sensitive' species is compromised.

Forest fauna has for some time now been protected by a variety of means including; legislation, a comprehensive reserve system, road river and stream corridors as well as the reservation of special areas, critical habitat such as old growth forest and critical habitat elements such as logs and hollow trees. There has also been ongoing research on forest fauna since 1970 and biodiversity is being monitored in detail by the FORESTCHECK monitoring system.

The Fauna Distribution Information System (FDIS), initially developed specifically to help ensure the continued survival of fauna in areas of forest subject to commercial timber harvesting and regeneration, is an adjunct to these safeguards. More recently, FDIS has been expanded to allow checking for 'sensitive' fauna to be included in the planning process prior to prescribed burning as well. FDIS is a computerized system for predicting the occurrence of vertebrate fauna species in any given area of forest prior to timber harvesting or prescribed burning operations.

The system allows 'sensitive' species to be taken account of prior to planned disturbance events thereby obviating the need for expensive biological surveys. As a predictive system FDIS has a number of advantages over the biological survey method that is generally used to discover what species are present within an area.

Commenced in 1996, FDIS developed from a system of field inspections of forest blocks containing proposed harvesting coupes by the two senior authors. The likelihood of the presence of fauna species in the block was assessed in the field by using a list of 279 vertebrate forest species and listing them against major vegetation associations found by field inspection to be present within the block. Species were listed and scored on a scale of 0-3, scores being allocated using the combined accumulated knowledge and experience of the two senior authors (total of more than 60 years) together with information contained in standard texts on fauna.

The system was later refined, the Havel/Mattiske RFA Vegetation Complexes map, replacing the field trips as a basis for the fauna predictions. Over a period of 2 years various combinations of the more than 300 Vegetation Complexes were assessed against fauna distributions. Using trial and error it

was found that a combination of the major forest formations together with moisture and temperature gradients, both dictated largely by latitude and distance from the sea, gave the most reliable Vegetation Complexes combinations for predicting fauna. As a result 54 'Fauna Habitats' were developed for use in predicting fauna distribution within the forested area.

A Fauna Habitats/Vertebrate species table, (54 habitats/306 species), comprising a total of 16524 possible combinations, forms the basis of the predictions which can now be made readily on the computer for any given area within the forest. The use of the Havel/Mattiske maps eliminates the need for field visits to each coupe and every proposed prescribed burn area each year.

The system has been validated using the more recent and most accurate WA Museum and CALM fauna records. Further validation is needed which may be simply done by carrying out biological surveys, one or two a year over the next few years in selected areas of the forest where information is most limited.

Species schedules, that give details of relevant biology as well as recommendations for management, have been developed for each 'sensitive' species. The system also contains tables with extra information on fauna succession following timber harvesting and regeneration and prescribed fire.

## Overview

Western Australia's State Forests contain one of the least altered faunas of any of the major ecosystems in Australia. Since the arrival of Europeans the record of extinctions, especially mammals in woodlands, mallee, mulga and the spinifex deserts has been without parallel, [Burbidge and McKenzie 1989].

Only the sub-humid tropics in the far north and the temperate forests of the south retain their pre-european faunas still largely intact. In the forested areas of the south-west perhaps the greatest impact on the fauna has been the introduced European red fox, *Vulpes vulpes*, [see Christensen 1978 and also later under, 'Research'].

During the eighteenth century forest exploitation and timber cutting were subject to few regulations and timber cutting was unregulated and often heavy and extensive in some areas and forest fires often raged out of control.

Following the establishment of a Forests Department and the passing of the Forest Act in 1918 the situation changed dramatically and since that time timber harvesting has been subject to increased regulation. Forest fires have also been brought increasingly under control using prescribed burning on a regular basis to control fuel levels [Forests Department 1968].

State Forests are now managed on a multiple use basis, many areas have been reserved from cutting and the production forests are managed in a manner consistent with the conservation of all forest values [see CALM 1987a, 1987b and 1987c, CALM 1992, CALM 2002a, 2002b, 2002c and Conservation Commission 2004].

Timber harvesting operations in the production forest areas need to take account of fauna conservation objectives, this is an integral part of the multiple use concept. Fire also needs to be managed, not only in production forest but also in National Parks and reserves. Fire is a natural process in the south-west and has to be managed in all forest ecosystems both for the people living there and also for the biota, [Abbott and Burrows 2003].

This manuscript outlines a technique for predicting the presence of 'sensitive' vertebrate fauna prior to timber harvesting and prescribed burning operations, the Forest Fauna Distribution Information System (FDIS). Details of the FDIS system, how it was developed, the information it contains and how to use it are also given.

## Introduction

Western Australia's State Forests together form an important conservation reserve because they contain one of the least altered faunas of any of the major ecosystems in Australia. Our forest fauna has lived through 150 years of wood harvesting and over 40 years of prescribed burning and most species appear to have been able to survive these disturbances, [Christensen, 1992]. More recent evidence from the Kingston study [Forest Check 2002] however suggests that some tree hollow using species, the Brush-tail possum, *Trichosurus vulpecula* and the Western Ringtail possum, *Pseudocheirus occidentalis*, may be disadvantaged by tree harvesting and regeneration activities. De Torres [In review] demonstrated that the Quokka, *Setonix brachyurus*, has declined in the northern jarrah forest and disappeared from the Blackwood Plateau in recent times. Preliminary results of a comprehensive quokka survey currently being undertaken in the southern forests conflict with some of the findings of de Torres. Quokkas have been found to be still present in a number of areas in the Blackwood Plateau and they are also far more widespread in the southern forests than suggested by de Torres [Liddelow pers. obs.].

This recent increase in quokkas in the southern forests is generally believed to be a result of the Western Shield fox baiting program.

At present it is unclear what role, if any, timber harvesting and/or prescribed burning, have in the observed decline of quokkas in the northern jarrah forest. The current quokka surveys in the southern forests for example, have revealed that there are quokkas present in many karri forest areas that have been cut over and regenerated in the past.

In view of this uncertainty, the quokka and the ringtail possum, together with some other species of vertebrates, need to be taken special account of when planning for timber harvesting/regeneration and prescribed burning operations.

Over the last few decades a number of strategies have been developed for the protection and conservation of forest fauna including, legislation, a comprehensive reserve system, road, river and stream corridors as well as the reservation of special areas and Mature habitat zones (MHZ's) throughout the forest [Conservation Commission 2004]. Special habitat, such as old growth forest, is well represented in the reserve system and critical habitat elements such as logs and hollow trees have increasingly been taken into account in Silvicultural Guidelines used in the management of production forests. There has also been ongoing research on forest fauna since the early 1970s and biodiversity is being regularly monitored by the recently introduced FORESTCHECK program [CALM 2000].

Pre-operations fauna assessments prior to timber harvesting and prescribed burning using the Forest Fauna Distribution Information System (FDIS) is a further development to the provisions for fauna conservation, briefly described above, that are already in place. The FDIS system has been developed over the last nine years specifically to assist operational managers, it is a computerized system designed to predict the occurrence of vertebrate species in an area of forest prior to any form of planned disturbance. It allows targeting

of species for further investigation and special attention where this is considered necessary, thereby reducing the necessity for field fauna surveys to a minimum.

As a predictive system FDIS has a number of advantages over the biological survey method that is generally used to identify the presence of species in any given area.

Commenced in 1996 FDIS has developed from a system of field inspections by the two senior authors, of forest blocks containing proposed timber harvesting coupes [Christensen and Liddelow 1997]. The presence of fauna in the block was initially assessed in the field using a list of vertebrate species known to occur in south-west forest areas and predicting their likely occurrence within the major vegetation associations found to be present within the forest block. Predictions were based on the combined field experience of the first two authors, totalling 35 years apiece, together with published and recorded knowledge on distribution of vertebrate species in the forest areas.

Since these early days the system has been much refined using the RFA Vegetation Complexes map [Mattiske Consulting 2000] as a basis for the fauna predictions. Using trial and error it was found that by taking into account the major forest formations along with moisture and temperature gradients, the Vegetation Complexes could be grouped into 54 new groups or 'Fauna Habitats', that reliably predicted fauna distribution.

The system has been provisionally validated using more recent WA Museum and CALM fauna records.

Further validation needs to be done by carrying out biological surveys, in selected 'Fauna Habitats' where our knowledge of the fauna is least accurate.

Complete lists of vertebrate fauna predicted to occur may now be produced for any area of forest for the purposes of planning prior to prescribed burning or timber harvesting. For simplified use by managers species that need to be taken special account of during planning stages have been identified and 'Species Profiles' have been prepared with information on each species. The Species Profiles include recommendations for management actions to be taken in instances when that species is predicted to be present.

The FDIS system also contains other information on hollow users, predicted longer-term effects of timber harvesting and regeneration and prescribed fire as well as a table listing species using modified habitats such as farmland, urban areas and dams.

## 1 FOREST FAUNA

A number of issues are important when dealing with forest fauna in the context of disturbances such as timber harvesting and prescribed fire. These issues include:

- treating the 'whole forest' as a fauna reserve;
- factors affecting distribution of fauna within the forest;
- the type and frequency of disturbance; and
- the degree of specialization and rarity of species of fauna.

### 1.1 South West Forests As A Fauna Reserve

To some extent the present forest estate may be regarded as a remnant, albeit, a very large one. The importance of the forest as a reserve relates primarily to the following features:

- Large size – Kitchener et al [1980] demonstrate the importance of size for conservation reserves.
- Comparative intactness – south-west forests still form a relatively complete entity. This is in spite of the fact that the total area has declined since colonization and continuity is broken in places by farms, townships, water supply dams and other permanently changed areas.
- Uniqueness – South-west forests comprise a series of unique ecosystems found nowhere else on earth [see Christensen 1992 and Dell *et al* 1989].
- Relictual fauna – the forests contain many species with Gondwanan affinities for example the small fish *Lepidogalaxias salamandroides* and the spider *Moggridgea tingle* [See Christensen 1992].
- High degree of endemism – the fauna of the south west forests have a very high degree of endemism [See Christensen 1992].
- Refuge – the forests are a refuge for several species that have become extinct elsewhere on the mainland – eg the Numbat *Myrmecobius fasciatus*. The distribution within the forest of populations of species like the Numbat and Chuditch, *Dasyurus geoffroii* are however still reduced, as compared to their original forest distribution, due to the impact of fox predation.

These factors have all been taken into account at various times during the several episodes of forest reservation that have taken place over the last century [Christensen 1992, RFA 1998 and Conservation Commission 2004].

### 1.2 Distribution of fauna within the forest

Fauna are not distributed evenly throughout the forest, the forest is made up of a great variety of habitats comprising a broad range of plant species as well as structural diversity all of which influence the distribution of fauna. In addition, fox predation has also had an impact on species distribution so as to create an 'artificial' pattern of distribution for some species. This 'artificial' distribution pattern overlays the natural distribution pattern within the forest

and is sometimes difficult to interpret. Species like the two large possums, the Brush-tail and the Ringtail and the Woylie *Bettongia penicillata* are three such species. We know that each was more widely distributed across a range of habitats within the forest area but in some habitats their former distribution has been greatly reduced by the fox.

### **1.2.1 Habitat diversity**

Species and numbers of animals differ according to the types of habitat present [Harris 1984], so species diversity depends to a large extent on habitat diversity, i.e. the number of different habitats present in a given area, [see Kitchener *et al* 1980].

### **1.2.2 Structural and floristic diversity**

Within any given forest habitat the greater the structural diversity, the greater we expect the diversity of fauna to be. Thus forest composed of uneven aged trees comprising an upper middle and lower canopy may be expected to contain more species than an even aged forest. Forest edges such as occur around small clearings, scrub and ground layers all add to the structural diversity. Non living things such as litter, logs, rocks and caves also contribute to structural diversity

Floristic diversity is also an important factor in fauna diversity since some species may only feed upon the flowers or leaves of certain species. Insectivorous birds for example may feed upon certain insects that occur only on a limited range of plant species.

Floristics may also be important for nesting, for example only certain tree species form large hollows suitable for the large Cockatoos. Woylies make their nests from material that they are able to bundle and carry in their tails, such as grasses, stringy bark from fallen jarrah *Eucalyptus marginata* trees, or the elongated leaves of the Snotty-gobble (*Persoonia longifolia*).

The fact that vegetation is a major component of most fauna habitats as well as also being an expression of other habitat characteristics such as edaphic factors, topography, moisture and temperature, often make plant communities good indicators of fauna presence.

## **1.3 Disturbance**

Disturbance, whether natural or induced by humans, is an important factor that may affect diversity by altering, temporarily or permanently, both the structure and floristics of a habitat and as a consequence also the fauna community.

### **1.3.1 Fire**

Fire is a natural disturbance agent which may be initiated either by natural causes eg lightning or by humans either deliberately as in the case of prescription burning or accidentally.

The cause of ignition matters little, it is the season, frequency and intensity of fire, the fire regime, which determines the effect on the fauna in any habitat.

Fire events generally initiate a succession in the understorey, a change in community structure and composition of both flora and fauna, followed by a



return, generally fairly rapid, to the original state. Occasionally following very intense fires, the overstorey may be affected to a greater or lesser extent, [Braithwaite 1995]. This in turn may affect birds and arboreal mammals in particular.

Some species such as the Southern brown bandicoot (*Isoodon obesulus*) and the Bush rat (*Rattus fuscipes*) are early succession species peaking in numbers during the first few years following fire [Christensen & Kimber 1975]. Other species such as the Mardo (*Antechinus flavipes*) are late succession species preferring the deep litter accumulating after a decade or more without fire [Sawle 1979].

Fire is a critical factor in all forest ecosystems, one that needs to be taken into account by managers when planning.

### **1.3.2 Timber harvesting**

The temporary opening up of the forest that occurs as a result of timber harvesting and regeneration operations is a human disturbance. Similar disturbances did occasionally take place prior to colonization on a more localized scale as a result of storms or on a more extensive scale as a result of intense wildfires.

Disturbance caused by timber harvesting, whether on a very local scale such as in selection cutting, or more extensive scale such as clear felling, is always followed by deliberate regeneration and like disturbance caused by fire the effect is temporary in nature [see CALM 2002a, 2002b and 2002c].

Also like fire the effect of timber harvesting and regeneration varies with intensity and frequency of cutting. Season of harvesting does not greatly affect forest regeneration as burning to effect regeneration is usually carried out in autumn regardless of when a coupe is cut.

The forest regenerates according to a predictable structural succession. Fauna returns likewise in a predictable succession the details of which depend upon the intensity of cutting whether it was clear felling or selection cutting.

Frequency of cutting, especially in the case of clear felling has the most potential to cause permanent or long term changes if cycles are too short to allow mature stages of forests to develop.

## **1.4 Types of fauna**

A characteristic of fauna that is important in the context of disturbance and forest management is the degree to which a species is a specialist, a trait often associated with restricted distribution, or a generalist more usually widespread species. Specialists are more likely to be sensitive to disturbance than generalists.

### **1.4.1 Degree of specialization**

Many animals have comparatively broad habitat requirements such as for example the Grey Kangaroo *Macropus fuliginosus* which may be found equally in jarrah or karri forest, woodlands or open scrub and heathland.

The Western Rosella *Platycercus icterotis* occurs in karri and jarrah forest, woodlands, open heath and farmlands with scattered remnant trees.

Other species much fewer in number, occur in a very limited range of habitats e.g. the Sunset Frog *Spicospina flammocaerulea* occurs only in a few peat swamps in the 'southern flats', the Tamar Wallaby *Macropus eugenii* inhabits thickets of *Melaleuca*, *Gastrolobium* or *Allocasuarina* only when these thickets are at a certain stage in succession following fire [Christensen & Maisey 1987].

Other species fall somewhere in between these examples, most being reasonably well distributed across a number of habitats.

Many forest species, especially mammals and birds are widespread outside the forests occurring for example in Mallee and even in the spinifex deserts.

Some of these species like the Woylie *Bettongia penicillata* and the Chuditch *Dasyurus geoffroii* are now largely restricted to the forest having become extinct in the more arid open habitats as a result of fox predation.

#### **1.4.2 Sensitive species**

##### **Species that need to be taken special account of when planning timber harvesting and regeneration or prescribed fire operations.**

In the context of this manual these are species that are regarded as being particularly vulnerable to disturbance by timber harvesting and regeneration operations or to certain prescribed fire regimes. The life cycle of these species may be disrupted for an extended period of time, either because of their low numbers and restricted distribution, or because of particular habitat requirements.

Examples include not only animals with a naturally restricted distribution such as the Nornalup Frog *Geocrinia lutea* but also species with a restricted distribution due to human induced causes, such as fox predation e.g. the Western Ringtail possum and the Quokka. Animals whose habitat requirements could be disrupted for an extended period by for example the effects of timber harvesting include the large hollow nesters such as the Forest Red-tailed Black Cockatoo *Calyptorhynchus banksii naso* and the Common Brushtail possum *Trichosurus vulpecula*.

## 2 CONSERVATION OF FAUNA IN THE WESTERN AUSTRALIAN FOREST AREA

Conservation of fauna within Western Australian forests is currently achieved by means of a number of different mechanisms all of which are designed to act together to ensure conservation of fauna across the forest estate.

### 2.1 Legislation

All native fauna are protected under the Wildlife Conservation Act 1950 and its amendments and CALM is responsible for implementation of the Act. A higher level of protection is provided for fauna if the Minister declares the fauna is likely to become extinct or is rare or is otherwise in need of special protection. In Western Australia 'threatened species' is taken to mean an animal taxa declared under this Act as rare or likely to become extinct whereas taxa declared otherwise in need of special protection are generally known as 'specially protected'.

All fauna species which occur on the Commonwealth Environmental Protection and Biodiversity Conservation Act Schedule 1, are on the gazetted lists under the Western Australian Wildlife Conservation Act. The converse is not true however, as the Western Australian list contains taxa rare in Western Australia but present in other states, hence not on the Commonwealth list.

As a consequence of the general protection of all fauna under the Act, a license is required to take any native fauna.

To take in relation to fauna includes, 'to kill or capture or to disturb or molest any fauna by any means or to use any method whatsoever to hurt or kill any fauna whether this results in killing or capturing or not'.

The destruction or modification of habitat is not specifically covered in the definition 'to take'. The fauna provisions, unlike the flora provisions of the Act do not explicitly bind the Crown. However, the Crown is bound by the intent of the act.

CALM has developed a Policy Statement No. 33 'Conservation of Threatened and Specially Protected Fauna in the Wild'. This requires CALM to identify rare and threatened fauna species and also to take action to conserve those species and their habitats. Policy Statement No. 44 entitled 'Wildlife Management Programs' requires CALM to develop Wildlife Management Programs for species or groups of species of threatened, specially protected and harvested fauna.

This latter policy distinguishes between a Management Program which deals with taxa which are harvested (eg Kangaroos) and Recovery Plans which deal with threatened taxa. Guidelines on the preparation of Recovery Plans are provided.

Recovery Plans have been completed for a number of species, which occur within State Forest e.g. the Woylie *Bettongia penicillata*, Chuditch *Dasyurus geoffroyi*, Orange-bellied *Geocrinia vittelina* and White-bellied *Geocrinia alba* frogs and the Numbat *Myrmecobius fasciatus*.

CALM has established recovery teams for threatened fauna and the teams include CALM as well as non-CALM representatives.

CALM Policy No. 33 also requires the nomination of an officer in each Region who will be responsible for identifying threatened and specially protected fauna, training staff and providing liaison and advice on threatened and specially protected fauna.

The Conservation Commission's Forest Management Plan 2004-2013 [Conservation Commission 2004] commits to regular monitoring and a detailed monitoring programme for fauna, in response to this FORESTCHECK has recently been initiated.

## **2.2 Protection Of Forest Fauna Through The Forest Management Plan System**

Forest Management Plans also provide for the protection of fauna in the following ways.

### **2.2.1 The Reserve System**

A comprehensive and representative reserve system has been established throughout the forest. Representative areas of the range of Vegetation associations to be found within State forests have been progressively reserved from timber harvesting since the early 1900's [see Christensen 1992]. With the latest additions resulting from the Regional Forest Agreement (RFA) process this reserve system will be fully representative of almost all of the Vegetation associations present within the forest [see RFA 1998a]. A very few types for example some Blackbutt *Eucalyptus patens* associations are under represented because little of these types remains uncleared. Blackbutt forest was particularly sought out by early settlers for farmland clearing because of the fertile soils on which they occur.

Special reservation has also been made in instances where endangered or vulnerable species are known to exist eg. The Perup nature reserve, which was, established principally for six endangered species the Numbat, the Woylie, the Tammar wallaby, the Western Ringtail Possum the Chuditch and the Southern Brown Bandicoot. The Woylie and Tammar have since been removed from the threatened species list as a result of CALM's fauna recovery programme.

Special case reservation is an ongoing commitment and may occur at any time when considered necessary. In the last Forest Management Plan for example reservation has been made of a portion of Witchcliffe Forest Block to enhance the protection of the White-bellied Frog (*Geocrinia alba*).

### **2.2.2 Special areas**

Provision has been made for the protection of special areas of conservation significance at the local level. Granite outcrops, unusual and restricted vegetation types, small soaks, etc may be excluded from timber harvest together with an uncut buffer at the time of coupe demarcation. Provision has been made in the current management plan to cater for this requirement.

### 2.2.3 Old growth forest

Mature and over-mature trees, are necessary throughout the forest to cater for species which depend on habitat elements provided by such trees, mainly hollows for refuge and nesting and flaking bark.

Old growth forest *per se* is not a necessary requirement of any known forest vertebrate species in the south-west. Old growth trees are essential but other elements of old growth forest such as deep litter layer, old rotting logs and various nutrient cycling processes may be provided equally in mixed age regenerating forest and are not necessarily always present in old growth forest. In Western Australia these elements are more a function of fire frequency than of the so-called old growth forest stage [see Christensen 1992].

The requirement for old growth, mature and over mature trees, is nevertheless a critical factor in forest management since these can be all but eliminated over time within timber harvesting areas if care is not taken to ensure their continued presence in the forest. A considerable element of the vertebrate fauna, particularly mammals (75%) and birds (17%), utilize trees or logs with hollows.

Hollow logs are not likely to be a problem during the first cutting cycle when large old veteran trees which will provide hollow logs, are still being harvested. However provision needs to be made for hollow logs in future cutting cycles when rotation lengths may not be optimum for production of trees of suitable size to provide hollow logs following harvesting.

Provision for old growth trees, not only to be retained during harvest operations but also for their continual production into the future, is a vital part of planning for timber harvesting. Substantial areas of forest with mature and over mature trees may be necessary for some species of fauna whilst others may require only isolated groups to be present within areas of regrowth.

An extensive reserve system with large areas of forest and woodland reserved throughout the forest linked by a system of wide road and river reserves has been established over a long period of time [see Christensen 1992].

More recently all of the remaining old growth forest has been added to this reserve system substantially increasing the total area of forest reserved, especially in the south [Conservation Commission 2004].

In addition a system of 'Indicative Fauna Habitat Zones', each of a minimum of 200ha in size, located across all forest types and totaling between 50,000 - 55,000ha in total area have also been added [Conservation Commission 2004]. All of this will help to ensure that 'old growth trees will always be in good supply throughout the forest.

This expansive reserve system caters for any species that may prefer large areas of mature forest

Species that only require small groups or isolated mature trees are catered for by a system of narrower but much more frequent stream reservations together with the habitat tree and 'potential habitat tree' retention within timber harvesting coupes.

#### **2.2.4 Road, river and stream reserves**

A network of uncut forest is reserved throughout the production forest along streams, rivers and major roads linking with reserves to form an extensive mosaic of mature trees throughout the forest.

These linear reservations ensure:

- linkage of mature forest between major reservations; and
- access to mature trees by fauna residing within regenerated forest coupes.

In the karri forest where clear felling is practiced, all reservations including road, river and stream reserves, together with other reservation total no less than 20% in any forest block

#### **2.2.5 Retention of critical habitat elements within harvesting coupes**

All forest areas harvested for wood products are regenerated. Detailed silvicultural guidelines for both jarrah [CALM 2002a] and karri [CALM 2002b] and also wandoo [CALM 2002c] which have been developed and field tested over many years, ensure that successful regeneration may be achieved consistently.

The jarrah silvicultural guidelines [CALM 2002a], as well as guideline criteria for management of fauna habitat, provide for retention of habitat trees as well as potential habitat trees, Balga (grass trees), den logs and stumps. These provisions ensure that fauna requiring these habitat elements can more quickly re-colonize the regenerating forest.

Cull pushing guidelines - post harvest also provide for the retention of unmarked trees with a diameter of greater than 30 cm at breast height.

Habitat trees are not retained in karri because young karri will not grow successfully underneath mature trees [CALM 2002b] and isolated tall karri are very prone to wind-blow. As a result species requiring mature habitat elements may take longer to re-colonize karri regeneration not directly adjacent to edges adjoining reserved mature forest. This is compensated for by a very extensive and well designed system of reserves containing mature trees in the karri.

#### **2.2.6 Pre-operations fauna assessments.**

The Forest Fauna Distribution Information System (FDIS) has been developed for the purpose of predicting vertebrate fauna species presence prior to timber harvesting and prescribed burning [see Christensen and Liddelw 1997 and 1998]. Any area where it is proposed to carry out either timber harvesting and regeneration or prescribed burning operations may be assessed for possible occurrence of vertebrate fauna that may need special attention prior to or during the operation using FDIS. The FDIS system provides a practical means of ensuring that fauna are taken into account when planning for timber harvesting and regeneration and prescribed burning operations. The FDIS system may also be used to plan appropriate fire regimes for fauna conservation purposes in parks and reserves.

### 2.3 Research on Forest Fauna

Research and monitoring is an integral part of forest management, information on all aspects of forestry, including timber harvesting and regeneration and forest ecology, is continually progressing and improving the way in which the forest is managed. Management techniques are continually evolving and changing, the current fauna management and protection system is based on information derived from research and monitoring as well as management experience.

Biological survey work and research into the effects of forest management operations on fauna has been carried out in WA since the early 1970's.

Early research concentrated on fire effects [see Christensen and Abbott 1989]. Information obtained on the effects of disturbance by fire as well as distribution data gathered from biological surveys [Christensen et al 1985] is all relevant to the effects of timber harvesting on fauna. Single species studies, in particular studies on threatened species, provide data for use in forest management. Aspects of the biology of many threatened forest species has been studied eg the Chuditch [Serena *et al* 1991], Numbat [Calaby 1960, Christensen *et al* 1984, Friend 1994] and the Woylie [Christensen 1980] have all been the subject of detailed biological and ecological research. The jarrah forest contains the majority of the Chuditch population and a recovery plan is currently being implemented [Orell and Morris 1994] and the significant recovery of this species in forest areas has been reported on in [Morris *et al* 2003]. Research has also been done on other threatened species, the Western Ringtail possum [Inions *et al* 1989, Jones *et al* 1994a, 1994b], Tammar wallaby [Christensen 1980, and Hall 1991], Quokka *Setonix brachyurus* [Liddelow pers obs.] and Brush-tailed Phascogale *Phascogale tapoatafa* [Christensen pers obs, Rhind 1996], the Mardo *Antechinus flavipes* [Sawle 1979], the Forest Red-tailed Black Cockatoo *Calyptorhynchus banksii naso* [Abbott 1998].

The availability of hollow trees for hollow users throughout the forest has also been studied [Abbott and Whitford 2000].

Studies have also been undertaken on The White-bellied *Geocrinia alba* and the Yellow-bellied *Geocrinia vitellina* frogs [Roberts *et al* 1990, Driscoll *et al* 1994, Williams 1994].

Small freshwater fishes on the threatened list, the Salamander fish *Lepidogalaxias salamandroides*, Mud Minnow *Galaxiella munda*, Black-stripe minnow *Galaxiella nigrostriatus* and Balstons perchlet *Nannatherina balstoni* have been studied [Christensen 1982, Jaensch 1992, Pusey 1981, 1989, and 1990, Pusey and Edwards 1990 and Morgan *et al* 1996]

A large experimental study examining silvicultural systems with respect to their effect on fauna and flora is currently in progress in the southern jarrah forest at Kingston Block. The Chuditch, Numbat, Ringtail Possum and the Woylie in particular are being studied in detail [see Morris et al 1996, FORESTCHECK 2002 and 2003].

One of the major findings of all of these studies with respect to conservation of forest fauna has been to confirm that fox predation is the factor largely responsible for the decline of the medium sized mammals that are now on the

threatened list. Wherever fox control has been carried out in the forest, medium sized mammals have increased dramatically. Project Western Shield, a major fox control initiative, is resulting in many medium sized mammals re-appearing all over the forest regardless of cutting history, in areas where they have not been seen for decades.

Significant results of this process of biological survey, research, protection and management of endangered and vulnerable fauna include the recent removal of the Woylie and Tammar wallaby from the threatened species list.

Reviews of the state of knowledge with respect to the effects of disturbance, including timber harvesting and regeneration and prescribed fire [see Christensen 1997 and Horwitz *et al* 1997], were undertaken as a part of the Regional Forest Agreement process [RFA 1998].

## **2.4 Monitoring**

Monitoring the effect of timber harvesting is a Ministerial requirement which requires CALM to monitor both the long term effects of harvest and regeneration techniques as well as the effectiveness of current prescriptions for the conservation and protection of forest fauna.

In the past monitoring the impact of disturbance, either timber harvesting or prescribed fire, has been largely carried out by research studies, primarily on 'keystone' species. Forest Management Plan [CALM/LFC 1994] committed CALM to a detailed monitoring programme and this has recently been set up, [CALM 2000, CALM 2002, CALM 2003].

FORESTCECK is a detailed, on going, largely site based, monitoring program that measures changes in fauna, flora and biological processes at several sites in the forest. Results from this program will be incorporated into land management programs in Forest Parks and Reserves as well as in the production forest in the future.



### **3 THE FDIS SYSTEM OF PRE-OPERATIONS FAUNA ASSESSMENTS**

#### **3.1 Timber Harvesting**

A system of 'in the field' fauna assessment of timber harvesting coupes prior to timber harvesting was first developed in 1996 [see Christensen and Liddelow 1997], the system was further refined and computerized in 1998 [see Christensen and Liddelow 1998].

The object of the assessment procedure is to identify what vertebrate fauna are likely to occur within felling coupes prior to any timber harvesting and regeneration operations taking place. This allows measures to be taken to further protect any species that might need to be given special attention, over and above the routine precautions built into the current silvicultural prescriptions.

Only vertebrate fauna are considered in this predictive system because although several invertebrate species are listed as threatened not enough is known about them to allocate them to any of the FDIS habitats with the same level of confidence as the vertebrates. At this stage it is considered more practical to develop the FDIS to a level where it is fully operational and to iron out any problems that may become apparent before attempting to include invertebrates in the system. The FDIS is an evolving system and it is intended that additions and improvements should be included on a continuing basis. Further new species as well as other orders of animals may be added at any time in the future.

The FDIS procedure is an indirect method based on predictions of fauna occurrences in mapped vegetation complexes. Christensen and Liddelow [1997] consider that this indirect method of assessment is superior to carrying out actual biological surveys in each coupe, for the following reasons.

Standard biological survey, unless repeated over several years, can only provide a 'point in time' snapshot of the fauna that inhabits any habitat, viz.:

- the 'rare' and restricted species, the species of most interest to managers, are often not recorded during biological surveys because these species are usually uncommon and few in number;
- the activity of many species, in particular reptiles and birds, is strongly regulated by seasonal factors, which means that a 'once off' biological survey is unlikely to locate all the species that occur in an area; and
- surveys on small areas, such as a felling coupe, will inevitably underestimate the species that may be present in the general area and which utilize the coupe but are not necessarily present on the coupe all of the time.

In order for direct biological survey techniques to yield meaningful data the surveys must be well planned and staffed, and be executed over a reasonable length of time of at least 7-10 days. This is extremely resource demanding as eight to ten dozen coupes are usually harvested each year.

The FDIS system provides a repository for fauna distribution and other data used by management, a template on which to build. The system can be

continually added to updated and improved as new knowledge on fauna distribution becomes available.

The traditional biological survey method has the superficial attraction of '*having actually checked the area on the ground*', but the above deficiencies are considered to severely limit the usefulness of the biological survey technique in planning for fauna conservation in timber harvesting and prescribed burning operations.

It is suggested that biological surveys in these situations can in fact be counter-productive, managers may be '*lulled into a false sense of security*' by the fact that an area has been actually '*checked on the ground*'. In reality it is almost certain the list of fauna produced as a result of a biological survey of a coupe or an area in preparation for prescribed burning, will be incomplete. Worst of all, the species that are missed during biological surveys are likely to be the less obvious and less common species, the very species managers need to know about.

The indirect predictive technique on the other hand allows attention to be focussed on the species sensitive to timber harvest and regeneration and prescribed fire in the most practical and cost effective manner.

Thus in cases where predictions indicate probable presence, follow-up field assessment and confirmation of a species presence can be undertaken using targeted survey techniques if this is deemed to be necessary. In practice we have found that this usually only applies to a limited number of coupes.

Biological surveys are nevertheless a very useful mechanism for improving our knowledge of species distribution and every opportunity should be taken to carry out biological surveys in areas of forest not previously surveyed or where FDIS information needs to be improved.

### **3.2 Prescribed Burning**

The FDIS predictive system, first developed to check timber harvesting coupes, is also ideally suited to planning for fauna prior to carrying out prescribed burning. The FDIS uses the RFA Vegetation Complexes that are also the basis of CALM's Fire Management Services, Fire Biodiversity Project, currently being developed. FDIS is a planning tool that can be used to assist in planning to achieve the best possible conservation outcome when using prescribed fire for either protection purposes or for the maintenance of biodiversity in National Parks and Nature reserves [see Christensen 2004].

The possible presence of species of vertebrate fauna may be predicted in advance of any fuel reduction prescribed burning operation so that any species that may require special attention can be taken into account during operational planning.

Tables predicting the effects of both spring and autumn prescribed burning on vertebrate fauna have been developed together with a list of species that may require special attention when planning burning. Species schedules containing recommendations with regard to management action, have been prepared for species that require '*special attention*'.

Fauna habitats that may be affected by certain fire regimes are also described and recommendations for these are made with respect to the most appropriate fire regimes for the fauna living there.

## **4 THE FOREST FAUNA DISTRIBUTION INFORMATION SYSTEM (FDIS)**

### **4.1 Initial Development - Field Based Fauna Predictions**

Timber harvesting coupe fauna predictions were originally based on field inspections of each forest block which contained coupes due for harvesting over the next 12 to 18 months.

During these inspections, lists were drawn up of all vertebrate species predicted to occur in each of the major vegetation groupings 'Fauna Habitats' in the block. A scale of probability, 1 = should occur, 2 = could occur, 3 = possibly could occur, (this order later being reversed in the system as it was developed – see later), was applied to each fauna species in each habitat type (usually between 3 to 6) recognized within the block. During inspection it was possible to determine directly the presence of some of the species of interest, in particular the quokka, whose presence may easily be directly assessed by interpreting signs of their presence such as their characteristic 'runnels'.

This predictive assessment technique requires persons with extensive field experience with the fauna ecology of the area that are able to identify and select the habitats and make the predictions.

Field inspection was the only technique possible at the time because no maps with sufficient detail to determine the fauna habitats present in forest blocks were then in existence [see Christensen and Liddelow 1997 for more detail].

More recently, as a part of the Regional Forest Agreement (RFA) process, new maps of Vegetation Complexes have been developed for the entire area of State Forest [Mattiske Consulting 2000]. These maps presented an opportunity to substantially improve on the field based timber harvesting coupe fauna assessment technique.

Using the RFA maps as a basis, new maps of vegetation groupings, 'Fauna Habitat' maps, which reflect fauna distribution within the forest, have been developed and lists of fauna predicted to occur in each of these 'Fauna Habitats' have been compiled. The maps and lists are now used to make the harvesting coupe fauna predictions [see Christensen and Liddelow 1998].

The maps and lists were developed over a period of 12 months by mapping and testing groupings of the RFA Vegetation complexes against fauna distribution based on the two senior authors knowledge and experience together Museum data and available published information on the distribution of fauna. Several attempts at this were required before satisfactory groupings of vegetation complexes, which adequately reflected fauna distribution, were achieved.

### **4.2 Development Of The Fauna Habitat Maps**

The RFA maps of Vegetation complexes themselves, whilst being a major advance in vegetation mapping, are not suitable in their present format to use as a basis for a fauna distribution information system.

Firstly, the maps of Vegetation Complexes, with over 300 vegetation types included, offer more detail than is necessary or which can easily be copied

with in a fauna distribution information system. Thus out of a total of some 279 native vertebrate species, probably only two species of frog are restricted to only one of the Mattiske/Havel Vegetation Complexes. Many species occur in several vegetation complexes and most species occur widely across many vegetation complexes.

Secondly the RFA maps are too detailed for persons without a fairly detailed knowledge of the forest flora to be able to identify vegetation complexes with any confidence in the field. For any fauna distribution information system to be of value as a management tool, managers have to be able to recognise the vegetation groupings with confidence in the field. For these reasons the maps needed to be simplified for use in the FDIS system. The process of simplification took into account the following considerations with respect to the distribution of forest fauna:

- Many species respond to gross changes in the overstorey or forest type to a greater extent than they do to the more subtle changes that exist between vegetation complexes. This is partly because of structural elements, which affect birds in particular, but also because of other factors that may affect fauna distribution such as the broad relationships that exist between forest type and geological and edaphic factors. The major forest associations of the south west as mapped by Bradshaw, Collins and McNamara [1997] were therefore used initially together with the RFA Vegetation Complexes maps in developing the Fauna Habitat maps.
- Many vertebrate fauna, especially frogs and reptiles, respond strongly to moisture gradients which in the south west decline sharply from west to east and less sharply from south to north [Christensen et al 1985].
- The effects of a secondary moisture gradient is also evident in differences that exist between valley and ridge fauna.
- In addition to moisture gradients there is also a temperature gradient which decreases in the opposite direction to the moisture gradient, that is from north to south and to a lesser degree from east to west.

The broad vegetation classification based on major forest associations together with the spatial differences provided by moisture/temperature gradients along with secondary influences of topography, thus provided the basis for the development of the FDIS 'Fauna Habitats' using the RFA Vegetation Complexes.

In the first attempt at grouping the RFA map Vegetation Complexes into useable 'Fauna Habitats', vegetation complexes were allocated to one of 20 groupings based on the major forest associations of Bradshaw *et al* [1997]. Also included in this grouping exercise were woodland and sedgeland types as well as a north/south and east/west separation. Lists of vertebrate fauna were drawn up for each of these 20 'Fauna Habitats' using the combined knowledge and experience of the two senior authors, totalling some 70 years, together with Museum data, standard texts as well as many of the listed references and publications.

Standard texts used included:

- Mammals - Churchill 1998, Ehmann 1992 and Strahan 1995;

- Birds - Flegg 2003, Frith 1976, Blakers *et al* 1984, Seventy and Whittell 1967, Carnaby 1948, Doust 1993, Keast 1994;
- Reptiles - Storr *et al* 1981, 1983, 1986, 1990 and 2002; and
- Frogs - Tyler *et al* 1994, 2000, Fishes; Allen 1982 and Morgan *et al* 1996.

During the course of allocating species to the 20 groupings, a task that took several weeks, it became apparent that this initial grouping of Vegetation Complexes was too coarse. The groupings were too broad to account for many species, in particular those species whose distribution relates strongly to moisture/temperature gradients.

There were also anomalies with some of the Vegetation Complexes which were caused by placing too much emphasis on forest associations rather than Vegetation Complexes groupings.

A further map was produced which overcame some of the problems but it was still too coarse and there were still anomalies, which were considered unacceptable.

The final grouping of vegetation complexes is based on the 12 geological units used in the RFA maps. Vegetation complexes under each geological unit eg. Darling Plateau, Blackwood Plateau, etc, were allocated to groups based upon major forest associations, eg. karri, jarrah, wandoo forest and woodlands, sedgeland etc. Further separation was achieved using moisture/temperature gradients ie east, west, north, south as well as separation using valleys and ridges.

This final sorting resulted in the 318 RFA Vegetation Complexes being grouped into 54 'Fauna Habitat' groups (map available on CALM's Fire Management Services and Roger Hearn's computers). The 54 'Fauna Habitats' with their constituent RFA Vegetation Complexes are listed in Appendix 1a and Appendix 1b.

In order to shorten the mammoth task of allocating each of the 279 native vertebrate species to the 54 'Fauna Habitats' we utilized the fauna lists previously prepared for the original 20 groups to create provisional lists.

First, we provisionally allocated each one of the 20 fauna lists to the most appropriate of the 54 new 'Fauna Habitats' and had printouts made of each of the 54 resultant lists of fauna. Next, we checked each species for correct allocation to the 'Fauna Habitat' to which it had been provisionally listed. Finally we allocated 'Probability scores' to each species in each of the 54 lists.

The final result was a complex table listing the probability of occurrence for each of the 306 native vertebrate species against each of the 54 habitat types, a total of 16524 possible records (see Appendix 2).

The 'Fauna Habitat' species table forms the basis of the FDIS predictive system. Scoring has been done on the considered likelihood of finding a species in a particular 'Fauna Habitat' type, 3 = should occur, 2 = could occur, 1 = possibly could occur. No entry in any box in the table means that it is considered that the species does not occur in that 'Fauna Habitat'. Conservation status of the species is also given where this is applicable and

exotic species are also listed, separately in the case of mammals and fish and in the case of birds they are annotated.

Where museum records of sufficient accuracy exist (we obtained these from the RFA fauna database) the box has been allocated an M. similarly records held by CALM Wildlife Section have been allocated W. More detail on any of these records can then be obtained by backtracking to the fauna habitat maps, obtaining a map reference for that area and then chasing up the record in either the RFA listings, the WA Museum or CALM Wildlife data bases.

We found that only a fraction of the 63,710 records on the RFA vertebrate fauna data base (primarily Museum records) have location data that have sufficient precision for them to be used in FDIS.

We considered only records with latitude and longitude readings with a precision of >0.02' accurate enough to be used, (the precision is defined for each species in the RFA data base). The 0.02' level of resolution approximates to a 300m<sup>2</sup> on the ground. Records with levels of accuracy <0.02' resolution were not considered acceptable because of the relatively high level of resolution of the Matiske/Havel Vegetation Complexes. Lesser accuracy would mean that too large a percentage of records could fall into vegetation complexes other than those in which they were actually collected, this could result in species being listed in a different 'Fauna Habitat' type to the one in which they were actually collected resulting in confusion.

### **4.3 Validating the Fauna habitat maps**

The RFA fauna data base records which had a precision of >0.02' were used together with fauna records on the CALM Wildlife Fauna Database to perform a preliminary validation of the fauna occurrences predicted by FDIS. This exercise was carried out prior to adding any of those records to the FDIS system.

In total only 1,186 of the 63,710 records in the RFA data base had the required precision of >0.02' and were suitable for the validation exercise. The much smaller CALM Wildlife fauna database contained 217 records that could be used. The range of species, 18 mammals, 20 reptiles and 16 frogs, that comprised the useable records was quite good.

The sample used for validation was small but the results were pleasing, only 51 (5.9%) of the 871 mammal records were not predicted by the FDIS system. The figure for reptile predictions was even better only 7 (2.7%) of 262 records were in error (see Table 1).

Frog records totaled only 107 of which a higher percentage, 16 (14.9%) were in error. However 8 of the 16 records in error were of one species *Crinia glauerti*, in two vegetation complexes.

The mammal validation (871 records) is considered a reasonable validation of the systems ability to predict mammals but the sample size for the other groups is inadequate for a reasonable validation. It is recommended that the FDIS predictive system should be further validated as more data with high accuracy come to hand.

Being able to place a specimen within a square kilometre grid might have been adequate in the past but now with the comprehensive RFA Vegetation

Complexes mapping system in place a higher level of precision is necessary in order to be able to relate records more accurately to Vegetation Complexes. Greater accuracy in specimen location is now possible with GPS and new more accurate Museum records are urgently needed.

**Table 1. Validation of FDIS predictions using the RFA and CALM Wildlife fauna data base records (precision > 0.02' latitude and longitude)**

Data base groups	No of useable records	FDIS in agreement			FDIS in error		
		No of species	No of records	%	No of species	No of records	%
Mammals							
RFA	654	18	610	93.3	2	44	6.7
Wildlife	217	4	210	96.7	1	7	3.2
<b>Total</b>	<b>871</b>	<b>18</b>	<b>820</b>	<b>94.1</b>	<b>3</b>	<b>51</b>	<b>5.9</b>
Reptiles							
RFA	262	20	255	97.3	7	7	2.7
Frogs							
RFA	107	16	91	85.1	5	16	14.9



## 5 USING FDIS

### 5.1 Disturbance And Forest Fauna

Most of the 80 or more timber harvesting coupes, as well as each of the several dozen areas programmed for prescribed burning each year are inhabited by many different species of vertebrates. Often 100 species or more can occur in any one of the areas targeted for disturbance.

Most of these species are common and widespread throughout the forest and most are capable of re-colonizing the disturbed areas within a surprisingly short space of time under current management practices (see later).

Predicting vertebrate fauna prior to disturbance events such as timber harvesting and prescribed burning is of limited value unless:

- information is available on the likely impact of the disturbance on the species of fauna that are predicted to occur in the area to be subjected to disturbance;
- information is available on the biology of the species that will allow a judgement to be made whether management action is needed to reduce the impact of the disturbance; and
- practical management actions that will result in mitigation of the effects of disturbance are possible.

This information on fauna species is used to make judgments on the necessity and practicality of taking management action prior to the planned disturbance.

For example it is known that several species of mammal and birds require tree hollows and that timber harvesting can have an effect on these.

The requirement for tree hollows has already been taken into consideration in the following ways:

- in the planning of the reserve design;
- in the rotation of cutting coupes; and
- in leaving habitat trees as well as future habitat trees in felling coupes.

In the absence of further information indicating that one or more of the tree hollow species requirements are not being met by the current provisions, further management actions than those already taken are not considered necessary (for more detail see later).

There are nevertheless species that may require special attention and these need to be selected and prescribed for.

FDIS has the capacity to predict all of the species likely to be present in any given area of forest and to select from them those species that need special attention.

To do this selection, each one of the 306 forest vertebrate species must be checked and analyzed separately against all the available information. This exercise has been done for both timber harvesting and regeneration and fire.

### 5.1.1 Timber Harvesting

In Western Australia the effect of timber harvesting on vertebrate fauna as far as is known is temporary in nature. This conclusion has been reached because the fauna of the forest is largely intact in spite of over 150 years of timber harvesting. Animals may on occasion be killed directly as a result of felling trees, eg a small percentage of possums are killed by felling their nesting trees [Christensen pers. obs.]. Most often however animals die within the first few weeks following falling usually as a result of predation due to the temporary alteration of their habitat. The numbers that may be killed depends largely on the level of cutting, a greater proportion of animals may be expected to survive shelterwood cutting than survive clearfelling operations. Many individuals especially birds and other animals living on the edge of coupes manage to re-settle in nearby forest [Kingston study unpubl.].

The area to be harvested may be burnt some time prior to the operation for protection purposes or the general surrounds may be burned. These fires are usually mild, consuming only the litter layer and the understorey scrub, the overstorey generally remaining intact. Where clear-felling is carried out regeneration burns are usually done to promote vigorous and healthy regeneration. These burns are intense, burning much of the slash, the litter and duff layers and scorching and burning some of the logs and heavier branch material which has been left behind following harvest.

As the forest regenerates each species returns as the habitat again becomes suitable. Open country species may invade for the first year or two, eg the Australian pipit *Anthus novaeseelandiae*, while scrub and ground species return within a few years because the scrub develops rapidly, with other species returning when the new trees develop a closed canopy.

Species that use the boles of large trees such as the Rufous tree-creeper *Climacteris rufa* and hollow users are likely to take longer, especially users of large hollows. Many hollow users may utilize the regenerating forest for feeding whilst relying on hollow trees in adjacent uncut forest for breeding [Kingston study unpubl.].

The complete picture for all species is not known in detail but for most species it is possible to make predictions based on what is known of the species biology and life history together with the results of fauna surveys and field observations.

A table has been compiled using our combined knowledge together with available information to predict the way in which species will return to a regenerated forest as the trees develop (Appendix 3). The biology of many species of birds and mammals are reasonably well known and a fairly accurate picture can be drawn. For some groups of animals such as the bats and herpetofauna there is less information.

The table has been utilized to highlight which species may be expected to take longer to return after felling. Species thus highlighted may be sensitive to harvesting operations if large areas of forest were to be cut on shorter rotations with no areas of forest being allowed to grow on to maturity.

### **5.1.2 Prescribed Fire**

Prescribed fire is used in Western Australia to reduce fuels for fire protection purposes and for maintaining biological diversity in State Forests, National Parks and Reserves. The impact of fire on vertebrate fauna and its duration is reasonably well known and depends largely on the fire regime *viz.* the interval between fires, season of burning and fire intensity, all are related one to the other. The immediate effects of fire on vertebrate fauna are fairly well documented, the longer term effects of different fire regimes less well so. The immediate effects of single fire events, especially intense fire, can often be severe on individuals whereas they seldom have long term effects on populations. However in instances where populations have become isolated as small remnants or naturally have a restricted distribution the effects of fire can be severe.

The effects of multiple fire events, fire regimes, may be more complex and are less well known [see Christensen and Abbott 1989 and Abbott and Burrows 2003].

It is recognized that forest ecosystems in the south-west have evolved with fire and that there needs to be a continued input of fire if current forest ecosystem and processes are to be conserved in the long term. A team of CALM scientists and managers are currently developing a model that aims to develop and maintain a mosaic of burn ages and stages of succession across all major landscape types in south-west forest areas, CALM's Fire Management Services Biodiversity model.

To attain this objective prescribed fire frequency and intensity will be constantly varied and rotated across the landscape over time based on a set of environmental variables. These variables include all known relevant ecological parameters such as, time to seeding of plant species, maximum and minimum fire intervals for communities, habitat succession for species of fauna, fuel parameters etc.

Flora and fauna with special requirements are taken into consideration in detailed species schedules outlining relevant biology as well as fire requirements for each species. If flora or fauna that need special attention are present in an area, prescribed fire plans can be adjusted accordingly.

Risk analysis then weighs ecological considerations against human values such as life and property.

It is considered that the Fire Biodiversity model will provide the best possible fire management for all species of vertebrate fauna based on present knowledge. Species that it is considered need special attention have been selected and species schedules have been developed for the Biodiversity Program.

The known and predicted effects of fire on fauna, including recovery time, have been documented in brief with references where these exist (see Appendix 4).

### **5.2 Effects of Timber Harvesting and Prescribed Fire on Fauna**

This section briefly outlines current knowledge on the effects of timber harvesting and regeneration and prescribed fire on forest vertebrates. In this

process those species that may need to be given special attention are identified.

In order to allow us to deal with the nearly 300 species of vertebrate fauna that have been recorded in the forest area species have been assembled into 'life history groups' [see also Appendix 4]. The species in each group all share certain characteristics in common with respect to the immediate effects of disturbance and subsequent recovery following timber harvesting and regeneration and prescribed fire.

### **5.2.1 Mammals**

The most important factor with respect to mammals, timber harvesting and fire, is the introduced European red fox *Vulpes vulpes* [see Christensen 1980 and Kingston study unpubl.]. Forest mammals are well adapted to cope with a range of disturbances including different fire regimes.

Fire has long been an important part of the south-west forest environment. In times past, fires started as a result of lightning, and, Aborigines also used fire extensively for a variety of purposes [see Abbott and Burrows 2003]. In pre-European times predators took their toll following fires but there were always sufficient numbers for each species to be able re-colonize burnt areas from surrounding unburnt areas as soon as the burnt areas regenerated. The arrival of the fox and to a lesser extent the cat (*Felis catus*) markedly changed the situation, many species have been unable to withstand the more intense predation pressure exerted by the new arrivals and have declined drastically and even become extinct [Burbidge and McKenzie 1989].

Although forest species have fared better than the fauna of most other Australian biomes, some species are now more vulnerable when it comes to disturbance such as timber harvesting and fire. Predation immediately following fire and also during the re-colonization phase has increased, so that some species, especially medium sized species of low fecundity, are now particularly vulnerable following fire.

Timber harvesting places further pressure on some species.

Species that may be under pressure as a result of these new or changed disturbance events are identified so that they may be taken into account when planning timber harvesting and prescribed fire operations.

#### **(a) Dense cover species**

The species living in dense cover are primarily riparian species e.g. the Quokka.

The litter remains moist for longer in riparian vegetation and as a consequence these areas often remain unburnt during spring burns. As a result of not catching fire and burning during every burning cycle riparian areas often accumulate heavier fuel loads, so that when they do burn, they do so with a greater intensity. This characteristic of riparian vegetation has certain consequences with respect to planning for the fauna that live in this habitat.

Riparian habitat may be excluded from burning by the simple expediency of burning in spring which will ensure that animals that need longer to recover

between burns remain largely unaffected by the fire. There will be some effect of fire as animals will be predated whilst emerging from their unburnt cover to feed on the young green shoots that emerge soon after burning.

When the riparian strips are burned, usually during summer or autumn fires, mortality of the animals that live there will be high, either as a direct result of the fire or as a result of predation occurring immediately following the fire. Animals from adjacent unburnt habitat will re-colonize the burn when the habitat has recovered sufficiently, time taken to re-colonize an area varies with the species [see Christensen and Abbott 1989].

Riparian vegetation is widespread throughout the forest and because a large proportion of species live in this habitat riparian areas provide a 'sink' of animals that can re-colonize burnt areas as they regenerate. The exceptions to this are uncommon riparian species with disjunct distributions and low fecundity, i.e. only one young per year. Isolated populations of such species may be burned out and being far removed from others of their kind, re-colonization becomes difficult or even impossible. A special regime of fox baiting may be recommended in such cases

Two species in this category that need to be taken into account when planning prescribed burning and timber harvesting and regeneration are the Quokka *Setonix brachyurus* VU and the Tammar wallaby *Macropus eugenii* CD, P4.

Timber harvesting does not directly affect riparian species but where regenerating areas occur adjacent to riparian vegetation where either quokka or tammar wallabies are present, these animals are attracted to the fresh new growth on the open area where they fall easy prey to foxes. As a consequence of this, several measures, including a regime of fox baiting, are recommended for both species where they are present in or adjacent to areas where timber harvesting is planned (see Species Schedules for Quokka and Tammar wallaby).

The remaining dense cover species, the Southern Brown Bandicoot *Isodon obesulus fusciventer*, CD, P4, is a more prolific breeder and recovers rapidly following disturbance [Braithwaite 1995].

#### **(b) Sparse cover species**

These are species that live primarily on the ridges in the jarrah and wandoo forest where ground cover is relatively sparse. This kind of habitat tends to burn patchily, especially when burnt in spring on a relatively short rotation which means that some cover usually remains after the burn. The species in this group are all relatively widespread and common and generally do not require any special treatment.

With respect to the Woylie *Bettongia penicillata*, CD, P4, the Woylie Recovery Plan and the Western Shield fox baiting program are facilitating the return of this species across much of its former range within the forest. The Western Grey kangaroo *Macropus fuliginosus* is in no danger, surveys conducted in 1970 and repeated in 1990 suggest that numbers across the forest area remain stable [Christensen unpubl. data.].

The Western brush wallaby *Macropus irma* P4 and the echidna *Tachyglossus aculeatus*, both widespread species, have both declined significantly over the

last few decades. Prescribed burning has not been implicated in their decline and the Western Shield fox baiting program should see their numbers increase.

There are no indications to suggest that timber harvesting threatens any of the above species [Morris *et al* 1996].

### **(c) Log users**

Fire can affect the numbers of logs on the forest floor. Spring fires have minimal effect but under dry autumn or summer conditions many logs catch fire and burn out so that numbers may be depleted by a regime of burning under these conditions. On the credit side, wildfires burning under dry conditions often bring down previously damaged trees and may add new logs to the forest floor [see Williams and Faunt 1997, and, Friend and Wayne 2003].

In Production forest areas timber harvesting operations contribute more logs than any natural causes.

The log user group is comprised of predators, which, with the exception of the Numbat *Myrmecobius fasciatus* VU, are all comparatively widespread across much of the forest. The Yellow-footed Antechinus or Mardo *Antechinus flavipes* recovers slowly following fire, needing a deep litter layer [Sawle 1979] and the Grey-bellied Dunnart *Sminthopsis griseoventer* recovers rapidly [Christensen *et al* 1985]. The Yellow-footed Antechinus is common in regrowth forest that has remained unburnt for 10 years or more [Sawle 1979] and there are no indications that current timber harvesting and regeneration operations have any great impact on this species. The Grey-bellied Dunnart appears to return rapidly, albeit in lower numbers, following timber harvesting and regeneration, how long it takes to fully recover is not yet known [Wayne *et al* 2001].

The more sensitive log users, such as the Numbat and the Chuditch *Dasyurus geoffroii* VU, are catered for in Silvicultural Guidelines [CALM 2002a] and both are the subject of successful Recovery projects [see Orell and Morris 1994 and Friend 1994 ].

### **(d) Tree hollow nesting species**

This group comprises mammals that live in trees or shrubs and spend at least a part of their time off the ground, although all of them also spend a significant amount of time on the ground. All of them except the Honey possum *Tarsipes rostratus* also use tree hollows regularly for nesting and daytime shelter. Tree hollow availability may be affected by fire and by timber harvesting [Inions *et al* 1989 and Wayne *et al* 2000].

The species in this group have two major characteristics that make them potentially vulnerable to both fire and Timber harvesting:

- tree hollow users have the potential to be affected by timber harvesting operations because trees with hollows may be locally depleted for a period of time; and

- ground foraging habits of all species of hollow users make them vulnerable to predation by foxes and cats especially in the period immediately following disturbance.

The Western Ringtail possum *Pseudocheirus occidentale* VU, is considered to need special attention because of its restricted distribution and life history parameters (see Species Schedule for the Ringtail possum). It is known to be affected, at least for a time, by timber harvesting and regeneration operations [Wayne *et al* 2000].

The Brush-tailed Phascogale *Phascogale tapoatafa tapoatafa* P3, now largely restricted to the forest area and considered to be a separate Western Australian sub-species, is listed here as a species to be kept under observation. Present data on this species with respect to the effects of timber harvesting are equivocal [Wayne *et al* 2001]. Little information is available with respect to fire but the other local Phascogale, the Red-tailed Phascogale *Phascogale calura*, EN, appears to recover rapidly following prescribed fire [Friend and Wayne 2003].

In the Kingston study the Common Brushtail possum *Trichosurus vulpecula* appears not to have declined in the timber harvesting treatments [Forest Check 2002] and it is considered to be well catered for by the current reserve system, FHZ's and Silvicultural Guidelines [CALM 2002a, 2002b and 2002c].

The Honey possum, occurs primarily in *Banksia* and *Allocasuarina* woodlands and heath land areas, almost all of these are reserved from timber harvesting. The Western Pygmy possum *Cercartetus concinnus* also occurs in these habitats as well as in the forest and is considered well catered for by the reserve system and current Silvicultural Guidelines [CALM 2002a, 2002b and 2002c]. Little information is available on this species fire response.

With respect to fire, low intensity fires appear to have minimal effect on the two large possums [Christensen and Abbott 1989 and Burrows and Christensen 2003]. The Western Ringtail is nevertheless considered for special attention when planning prescribed burning because of this species restricted occurrence [see Species Schedule for Ringtail possum].

The Honey possum may be severely affected by large scale high-intensity fires [Richardson and Woller 1991, see also Friend and Wayne 2003] however they recover rapidly following fire of low intensity [see Friend and Wayne 2003] and are therefore not considered for special attention.

### **(e) Burrowing Species**

The two species that comprise this group, the Bush rat *Rattus fuscipes* and the Water rat *Hydromys chrysogaster*, P4, both live in areas of dense understorey.

The habitat of the Water rat is the immediate vicinity of water courses and the surrounds of permanent or temporary lakes and swamps. These areas are also the main habitat of the Bush rat although this species is more generally distributed, especially in the higher rainfall areas.

The riparian habitat that comprises the main habitat of both species provides added protection for them as more often than not this habitat remains unburnt during spring prescribed burning.

The Bush rat's underground burrow system protects them from the immediate effects of fire but predation is high in the first few months following the fire due to the absence of cover. The effect of fire is relatively short and temporary (4-6 years) and the animals return to the area as the understorey regenerates. The Bush rat feeds on new growth and invertebrates and is an early to mid fire succession species [Christensen and Kimber 1975].

It is likely that the effect of fire on the Water rat is similar but as it lives largely on aquatic fauna this species is unlikely to be an early fire succession species like the bush rat.

Timber harvesting is likely to have minimal effect on the Water rat as its main habitat is protected within the stream reserve system as are the surrounds of lakes and swamps. The Bush rat is known to re-colonize suitable regrowth karri within less than ten years [Christensen pers. obs.].

#### **(f) Bats**

Nine species of bat occur in the forest region but little is known of their habitat preferences and distribution. Surveys and collections in the southern forest region in the 1970's, together with W.A. Museum records suggest that the White-striped freetail bat *Nyctinomus australis*, Greater Long-eared bat *Nyctophilus timoriensis*, Lesser Long-eared bat *Nyctophilus geoffroyi*, Goulds Wattled bat *Chalinolobus gouldii*, Chocolate Wattled bat *Chalinolobus morio*, Southern Forest bat *Vespadelus regulus* and the Western Falsistrelle *Falsistrellus mackenziei*, P4, are all relatively common. The other two, the Western freetail bat *Mormopterus planiceps* (SW species) and Gould's Long-eared bat *Nyctophilus gouldii* are either less seldom collected or are less common in the southern forests.

Tree hollows are obligatory only for the Greater Long-eared bat, all of the remainder usually use tree hollows with the exception of the Lesser Long-eared bat and Gould's Wattled bat which both only use tree hollows only on occasion.

It is believed that none of the bats are threatened by prescribed burning as their roosts are mostly out of the way of all except the most extreme high intensity fires. Bats are also very mobile and feed mostly by hawking for insects above and beneath the tree canopy, strata that are affected only minimally by most prescribed fires.

Timber harvesting operations may affect tree hollow availability but it is considered that the extensive reserve system, the Fauna Habitat Zones (FHZ's) together with habitat trees, should provide adequate roosting sites for bats in all areas. There is an abundance of hollows in mature jarrah trees [Abbott and Whitford 2002]. Bats have been observed using regenerated sites, however, whether all species use these sites to feed is not known.

It has been suggested that one species, the Western Falsistrelle, could be disadvantaged by timber harvesting and regeneration operations because it apparently hawks almost exclusively in the space beneath the tree canopy. It



is not known how important this feeding habitat is to the Western Falsistrelle. However it is believed that the Western Falsistrelle is the most common bat in the southern forests where surveys in the 1970's covered both uncut and regenerating forest of all ages [Christensen *et al* 1985].

In New South Wales, Law and Chidel [1996], using bat detectors, recorded greater bat activity in unlogged coupes compared to adjacent 22 year old regrowth.

The difference was considered to be due to habitat structure and 'clutter' rather than being food related. Low bat activity in regrowth was consistent for less maneuverable bat species, although larger species were too rare to be tested. Some of the bat species monitored in New South Wales are also present in the southwest, the bats *Chalinolobus morio*, *Nyctophilus gouldi* and *N. geoffroyi*, all appeared to use unlogged forest and regrowth equally.

Trapping results revealed a female sex bias in unlogged coupes which was suggested by the authors to be due to the location of maternity roosts in hollow-bearing trees within the unlogged forest.

At this stage it is considered that no species of bat warrants special attention, however more work needs to be done on forest bats to learn more about their distribution and habits.

## **5.2.2 Birds**

### **(a) Water Birds**

Water birds have been divided into four sub-groups that are listed in order of their considered likelihood of being affected by fire or timber harvesting and regeneration.

#### **(i) Reed Bed Birds**

Bitterns are obligatory reed bed species and all of the three Bitterns that occur in the South-west are listed species, the Little bittern *Ixobrychus minutus* P4, the Black bittern *Ixobrychus flavicollis* P2 and the Australasian bittern *Botaurus poiciloptilus* VU [see HANZAB 1993].

The Dusky Moorhen *Gallinula tenebrosa*, the Black-tailed Native hen *Gallinula ventralis*, the Purple Swamphen *Porphyrio porphyrio*, the Spotless Crake *Porzana tabuensis*, the Buff-banded Rail *Gallirallus philipensis* prefer reed beds but are not necessarily confined to these [see HANZAB 1993].

The Clamorous Reed-Warbler *Acrocephalus stentoreus* is confined to fresh water reed and rush beds including suitable beds created around dams and other 'non-natural' water bodies. and the Little Grassbird *Megalurus gramineus* prefers reed-beds but is not confined to these [Serventy and Whittell 1967].

All of these species are on the '*List of species to take into account*' when carrying out prescribed burning, (see Appendix 6). because of the restricted nature of their habitat and its susceptibility to fire. Detail with respect to the fire management of each species is included in CALM's Fire Biodiversity Management data-base.

Reed bed habitats in the forested region are largely protected within the reserve system. Those reed beds that do occur within timber harvesting areas are further protected in the Forest Management Plan by a provision for a protective buffer in which no cutting is allowed.

## **(ii) Rivers, lakes and other watercourses**

A group of birds occur primarily along rivers, watercourses and the margins of lakes and some may also be found in other wetland habitats from time to time. These birds include, the Rufous Night Heron *Nycticorax caledonicus*, the Darter *Anhinga melanogaster*, the Little Pied Cormorant *Phalacrocorax melanoleucos*, the White-faced Heron *Ardea novaehollandiae*, and the Pacific Black Duck *Anas superciliosa* [see Abbott 1999, HANZAB 1993 and Serventy and Whittell 1967].

The Rufous Night Heron is listed amongst the '*species that need to be taken into account*' when planning prescribed burning and details with respect to fire management are included in Species Schedules in CALM's Fire Biodiversity Management database.

The next two species generally nest in colonies, the location of which are usually known locally and fire management planning should include protecting these areas from intense wildfire. The White-faced Heron and the Pacific Black Duck are widespread and common along rivers in the forested area and whilst they may be temporarily disturbed by fire this is considered not to present any permanent problems.

Formal reserves and the reservation of their riverine habitat protects all of these species from the effects of timber harvesting and regeneration. The Pacific Black Duck does nest in tree hollows but there are enough trees with hollows protected within the reserve system and as 'habitat trees' to cater for this species' nesting requirements.

## **(iii) Lakes, estuaries and dams**

A group of waterbirds, primarily ducks, feed on lakes, estuaries and dams as well as semi-permanent and seasonal waters. These species occur as residents or seasonal visitors within the forested area. They all nest either in trees or tree hollows close to water or in reeds, rushes or swamp vegetation, all habitats that may be affected by fires burning under dry conditions.

Three species, the Freckled Duck *Stricktonetta naevosa*, the Blue-billed Duck *Oxyura australis* and the Musk Duck *Buziura lobata*, occur in freshwater swamps and lakes that are of restricted distribution in the forested area [Abbott 1999, Serventy and Whittell 1967, and, HANZAB 1990]. Their nesting habitats are highly flammable under dry conditions so they are on the '*list of species to be taken into account when burning*' and are included in CALM's Fire Biodiversity Management database.

The other species in this group include; the Australasian little Grebe *Tachybaptus novaehollandiae*, the Hoary-headed Grebe *Poliiocephalus poliocephalus*, the Pink eared Duck *Malacorhynchus membranaceus*, the Hardhead *Aythya australis*, the Grey Teal *Anas gibberifrons*, the Australasian Shoveler *Anas rhynchotis*, the Chestnut Teal *Anas castanea*, the Australian Shelduck *Tadorna tadornoides*, the Maned Duck *Chenonetta jubata*, the

Black Swan *Cygnus atratus*, the Eurasian Coot *Fulica atra*, the Yellow-billed Spoonbill *Platalea flavipes*, Great Egret *Egretta alba*, the Sacred Ibis *Threskiornis molucca*, and the Little Black Cormorant *Phalacrocorax sulcirostris*.

These birds are all widespread species and temporary and occasional disturbance by fire in a very small sector of their range of occurrence is considered not to be a critical issue for these species.

Timber harvesting and regeneration activities are unlikely to affect the habitat of any of these species as nearly all forest swamps and lakes are within reserves and any swamps and lakes that are within timber harvesting areas are protected by uncut buffers. Dams and inlet areas are not affected by timber harvesting.

Five species of duck nest in hollows in trees, the two teals - the Grey and the Chestnut teal, the Shellduck, the Maned duck and the Black duck. All of these ducks, with the exception of the Black duck, are essentially non-forest species and they nest in remnant trees in pastured areas and in trees within reserved areas around coastal lakes and inlets. The Black duck is common on rivers and can nest in the trees that are reserved within the stream reserve system.

Large old trees with hollows big enough for nesting ducks are rarely removed by timber harvesting, such trees are usually not suitable for saw-milling as they have reached an advanced stage of decay. More likely such trees are left standing as 'habitat' trees, felling prescriptions allow for six 'habitat' trees to be left per hectare [Conservation Commission 2004].

#### **(iv) Pasture species**

Several species of water bird may be seen on pasture but three species are particularly associated with this habitat in the south west area, these are the Pacific Heron *Ardea pacifica*, the Glossy Ibis *Plegadis falcinellus* and the Straw-necked Ibis *Threskiornis spinicollis* [see Serventy and Whittell 1967].

None of these species appear to nest in the forested areas of the south west so neither fire or timber harvesting is likely to interfere with them. The Straw-necked Ibis does nest in colonies in swamps and seems to be increasing in numbers in the south west so this species breeding areas could be affected by wildfire in the future.

#### **(b) Dense cover and understorey birds**

This comprises a small group of birds including the Noisy Scrub-bird *Atrichornis clamosus*, VU. The Noisy Scrub-bird is on the '*list of species to be taken into account when burning*' and information on what to do when the species is considered to be present when planning for prescribed burning or timber harvesting is provided in the Species Schedule CALM's in Fire Biodiversity Management data-base.

Fire effects studies on two species of Fairy Wren, the Splendid Fairy-wren *Malurus splendens* [Woller and Calver 1988, Rowley and Russel 1990, Brooker 1998 and Brooker 2001] and the Red-winged Fairy-wren *Malurus elegans* [Christensen and Kimber 1975, Tingay and Tingay 1984, and, Woller and Calver 1988], suggest that their habitat is temporarily disturbed by fire

and that repeated fire at short intervals (< 5 years) may be deleterious in the long term. Fires at intervals of greater than 5 years should not however pose a threat to these species.

It seems likely that the other two species of Fairy wren, the Blue-breasted Fairy-wren *Malurus pulcherrinus* and the White-winged Fairy wren *Malurus leucopterus*, would react in much the same manner to fire. In the case of these species however the minimum fire interval is likely always to be greater than 5 years because these species live in dry woodland or scrubland habitats that recover more slowly from fire.

Three further species also appear to return again soon after fire, the White-Robin *Eopsaltria georgiana*, [Christensen and Kimber 1975 and Woller and Calver 1988] the Red-eared Firetail Finch *Stagonopleura oculata* [Woller and Calver 1988] and the White-browed Scrubwren *Sericornis frontalis* [Tingay and Tingay 1984 and Woller and Calver 1988].

The fire ecology of the remaining species, the Southern Emu-wren *Stipiturus malachurus* has not been studied but it seems likely that it is not dissimilar to that of the Red-winged Wren as both are dense scrub species. The habitat of the Emu wren, coastal heath, is in fact more prone to fire than the forest thickets of the Red-winged wren so it reasonable to suppose that the Emu wren is an early re-invader of suitable post-fire habitats.

At the Kingston block timber harvesting study site understorey birds are returning following timber harvesting and regeneration operations in response to the development of understorey complexity, [see Abbott *et al* 2003 and Forest Check 2002 and 2003].

### **(c) Mid-storey birds**

The effect of fire on mid-storey birds is directly proportional to the intensity of the fire, time since fire is also important Christensen *et al* [1985a]

There are 39 species in this category none of which are primarily forest species, most are woodland and forest species a few are primarily woodland species. Included amongst the forest and woodland species there are four obligatory tree hollow nesters, the Western Rosella *Platycercus icterotis*, the Southern Boobook *Ninox novaeseelandiae*, the Barn Owl *Tyto alba*, and the Masked Owl *Tyto novaehollandiae* P3. The Barking Owl (South West form) *Ninox connivens* P2, the Australian Owlet Nightjar *Aegotheles cristatus*, the Laughing Kookaburra *Dacelo novaeguineae* (introduced) and the Sacred Kingfisher *Halcyon sancta* usually use tree hollows and the Rufous Treecreeper *Climacteris rufa* may use tree hollows.

Only the Rufous Treecreeper has been studied to any extent and has been shown to increase temporarily following intense fire in karri, [Christensen and Kimber 1975]. Unpublished data [Serventy pers. comm.] suggests that timber harvesting in jarrah may have only a temporary effect on numbers of the Rufous Treecreeper and breeding.

Of the two Priority species, the Barking Owl is primarily a woodland species whereas the Masked Owl is more of a forest species, widespread but uncommon. No information is available on either species with regard to either fire or timber harvesting, until information becomes available no further

changes to current fire management can be suggested. The considerable area of well distributed reserved forest [see Conservation Commission 2004 ] and current silvicultural practices designed to cater for tree hollow users, should together protect both species from any adverse effects of timber harvesting [see CALM 2002a, 2002b and 2002c].

What has been said with respect to the two species of Priority Owls applies also to the remaining species of tree hollow nesters.

Many of the smaller mid-storey birds have been studied with respect to their response to fire. These include; the Scarlet Robin *Petroica multicolor* [Christensen and Kimber 1975, Bamford 1986, Christensen *et al* 1985, Woller and Calver 1988 and Brooker 1998], the Western Yellow Robin *Eopsaltria griseogularis*, [Kimber 1974, Christensen *et al* 1985], the Golden Whistler *Pachycephala pectoralis* [Christensen and Kimber 1975, Kimber 1974, Christensen *et al* 1985, Woller and Calver 1988], the Grey Shrike-thrush *Colluricincla harmonica* [Kimber 1974, Christensen *et al* 1985], the Restless Flycatcher *Rhipidura fuliginosa* [Tingay and Tingay 1984, Woller and Calver 1988], the Broad tailed Thornbill *Acanthiza apicalis* [Kimber 1974, Tingay and Tingay 1984, Christensen *et al* 1985, Woller and Calver 1988], the Western Thornbill *Acanthiza inornatos* [Christensen and Kimber 1975, Kimber 1974, Christensen *et al* 1985, Woller and Calver 1988], the Red Wattlebird *Anthochaera carunculata* [Christensen and Kimber 1975, Tingay and Tingay 1984], the Yellow-winged (New Holland) Honeyeater *Phylidonyris novaehollandiae* [Tingay and Tingay 1984, Woller and Calver 1988, Arnold *et al* 1993], the Western Spinebill *Acanthorhynchus superciliosus* [Woller and Calver 1988], and the Silvereye *Zosterops lateralis* [Christensen *et. al.* 1985, Woller and Calver 1988].

The conclusion may be reached from these studies that fire *per se* is not a significant factor for any of these species. Responses to fire vary with fire frequency and intensity and a species may increase or decrease in numbers following fire. Providing there is a range of fire frequencies over time and successive fire intervals are not too long or too short each of the species studied appears capable of coping with fire. This is also the conclusion of Christensen and Abbott in their [1989 ] in their review.

In a more recent review Burbidge [2003] comes to similar conclusions and makes the point that frequent fire in extensive habitat, such as the forests of the south-west of WA, is not likely to be significant for most species of birds. This is because at this scale, fire is patchy and there are ample opportunities for re-colonization.

Other mid-storey birds include the Common Bronzewing *Phaps chalcoptera*, Brush Bronzewing *Phaps elegans*, Fan-tailed Cuckoo *Cuculus flabelliformis*, Horsefield's bronze Cuckoo *Chrysococcyx basalis*, Shining bronze Cuckoo *Chrysococcyx lucidus*, Tawny Frogmouth *Podargus strigoides*, Rainbow Bee-eater *Merops ornatus*, White-winged Triller *Lalage sueurii*, Red-capped Robin *Petroica goodenovii*, Crested Shrike-tit *Falcunculus frontatus leucogaster*, Rufous Whistler *Pachycephala rufiventris*, White-browed Babbler *Pomatostomus superciliosus*, Weebill *Smicrornis brevirostris*, Varied Sittella *Daphoenositta chrysoptera*, Grey Currawong *Strepera versicolor* and Australian Raven *Corvus coronoides*.

The Grey Currawong and the Australian Raven both scavenge on recent burns [Christensen 1980 and Christensen *et al* 1985] and appear not to be greatly affected by fire. The two Bronzewing pigeons would appear to be advantaged by fairly frequent fire, especially intense fires that germinate 'fire weed' species such as the *Acacias* on whose seeds these birds feed [Christensen pers. obs.]. The three species of Cuckoo parasitize other birds nests and so their numbers will depend on the abundance of those species they prefer to parasitize.

The White-winged Triller is an open country species that may invade for one or two years, areas of forest recently burnt by intense fire, [Christensen *et al* 1985].

The remaining species, a range of woodland and forest species, we may assume until further studies are done, will likely behave in similar fashion to the species that have been studied so far.

CALM's Fire Biodiversity program, currently being formulated, plans for burning the forests and woodlands to develop a mosaic of different burn ages across all major Landscape units, fire will also vary in intensity and season of burning. The object is to maintain suitable habitat for all the more common species with special management to suit certain rarer and selected species. None of the species listed above are included in the selected species.

Abbott *et al* [2003] reviewing the Kingston block study were able to demonstrate significant effects of timber harvesting on the abundance of only 2 of the 39 species studied, the Western Gerygone and the Broad-tailed Thornbill. The former decreased in abundance initially whilst the latter, an understory species, showed an increase following gap release (intensive harvesting). By year seven of the study both species in the logged treatments had abundances similar to those in the un-logged treatments. Seven years following treatment the indications seem to be that understorey and mid-story species may be only temporarily affected by the timber harvesting treatments and that species are returning as the regenerating forest regains its structural complexity [see also Forest Check 2002 and 2003].

#### **(d) Canopy birds**

Canopy birds are essentially unaffected by low intensity fires [see Christensen *et al* 1985]. The species that have been studied, which include; the White-naped Honeyeater *Melithreptus lunatus*, [Kimber 1974, and Christensen and Kimber 1975], and the Spotted Pardalote *Pardalotus punctatus*, the Striated Pardalote *Pardalotus striatus* and the Western Gerygone *Gerygone fusca* [Kimber 1974, and Christensen *et al* 1985] are only temporarily disturbed by fire. The extent to which any of them are disturbed by fire is determined by the intensity of the fire [Kimber 1974, and Christensen *et al* 1985].

No data are available for the Palid Cuckoo *Cuculus pallidus* and the Black-faced Cuckoo Shrike *Coracina novaehollandiae* but it seems reasonable to assume that they would react to fire in much the same way as the smaller canopy species, i.e. disturbed temporarily depending on the fire intensity.

The four species of parrot, the Forest Red-tailed Black Cockatoo *Calyptorhynchus banksii naso* P3, Baudin's Cockatoo *Calyptorhynchus*

*baudinii* VU, the Red-capped Parrot *Platycercus spurius* and the Port Lincoln Ringneck (Twenty-eight Parrot) *Platycercus zonarius semitorquatus* are all seed eaters that feed primarily in the canopy, especially in marri trees. They may also feed on seeds of *Hakea* and other mid-storey species. They all nest in tree hollows which occur largely in senescent or dead trees that may be affected by intense fire, wildfires, burning under extreme conditions.

At present there is no evidence to suggest that any of these species are affected adversely by prescribed fires.

With respect to timber harvesting, Abbott *et al* [2003] found that of 39 species studied at Kingston block only two, the Western Gerygone and the previously mentioned Broad-tailed Thornbill showed a statistically significant effect over time on their abundance. The Western Gerygone declined in abundance initially following timber harvesting activities but had recovered to the level of the unlogged treatment by year seven. Thus far, seven years following the intense timber harvesting treatment the Kingston study has not yet shown significant lasting effects on canopy species, [see also Forest Check 2002 and 2003].

It may be surmised however that the larger hollow nesters will have to rely on mature trees in the reserve system for nesting for a long while since it will be many years before the regenerating areas provide this resource. It is believed that the reserve system will be able to cater for their requirements because of its great extent and distribution. Constant monitoring of this and other factors will be provided by Forest Check [CALM 2000].

#### **(e) Raptors and aerial 'hawking' birds**

Fourteen raptors occur in the forested area, none are common species and some like the Square-tailed Kite *Lophoictina isura*, Spotted Harrier *Circus assimilis*, Peregrine Falcon *Falco peregrinus* and the Australian Hobby *Falco longipennis*, may be said to be rare in the area. Others like the Osprey *Pandion haliaetus*, Black-shouldered Kite *Elanus notatus*, Marsh Harrier *Circus approximans* and the Australian Kestrel *Falco cenchroides* are essentially non-forest species that may occur along the coast, over heath and sedgelands or on farmland within the forested area. The rest, the Whistling Kite *Haliastur sphenurus*, Brown Goshawk *Accipiter fasciatus*, Collared Sparrowhawk *Accipiter cirrhocephalus*, Wedge-tailed Eagle *Aquila audax*, Little Eagle *Hieraaetus morphnoides*, and the Brown Falcon *Falco berigora* are all seen infrequently in the forested area [see Christensen *et al* 1985 and Abbott 1999].

There is no information on these raptors and their fire ecology or their reaction to timber harvesting and regeneration operations. It is currently believed that the extensive reserve system together with the mosaic created by current burning practices, provide sufficient suitable habitat for these species.

The Black-faced Woodswallow *Atamus cinereus*, an open country species only occasionally seen in parts of the northern forest areas, seems unlikely to be affected by either fire or timber harvesting and regeneration. The Dusky Woodswallow *Artamus cyanopterus* occurs seasonally in the forested area and prefers open woodlands or open heath and sedgelands. It has been

observed using recently burned forest [Christensen *et al* 1985] and also areas of cut over forest for both feeding and nesting [Christensen pers. obs.].

#### **(f) Non-Forest Birds**

This group comprises a number of birds that occur along the coastline, in open woodlands and heathlands and along the forest edge where forest intersects with farmland and pastures. Some of these birds could arguably be left off the list of forest species, especially those that occur primarily on the forest edge. These birds do however interact with the forest to a greater or lesser degree and they may be affected by events that occur within forest areas either now or in the future. There is well documented evidence that many species of birds have already 'invaded' the forested areas since colonization and the opening of the area for towns and agriculture [see Christensen *et al* 1985, Christensen 1997 and Abbott 1999]

The following species occur within the forested area either in open woodlands, heathlands and sedgeland or they visit the area as temporary residents following fire events; the Tree Martin *Hirundo nigricans*, Yellow-rumped Thornbill *Acanthiza chrysorrhoa*, Australian Magpie *Gymnorhina tibicens*, White-winged Triller *Lalage sueurii* and Richard's Pipit *Anthus novaehollandiae*. The last three have been observed taking up temporary residence following fires in forest areas, [Christensen *et al* 1985, Bamford 1986 and Turner 1987]

The White-cheeked Honeyeater *Phylidonyris nigra* and the Tawny-crowned Honeyeater, *Phylidonyris melanops*, two south coast species, favour post fire coastal heath, 3-6 years and 1-6 years post fire respectively, [Arnold *et al* 1993].

Northern and eastern woodland species include; the Mistletoebird *Dicaeum hirundinaceum* which may decrease immediately following fire [Turner 1987], the Brown Honeyeater *Lichmera indistincta* and the Brown-headed Honeyeater *Melithreptus brevirostris* which are affected minimally by fire [Kimber 1974], the White-fronted Chat *Ephthianura albifrons* which may move into woodland areas 2-3 years post fire [Bamford 1986, Arnold *et al* 1993 and Chapman and Newby 1994].

There is currently no information on the effect of fire on the Hooded Robin *Melanodryas cucullata*, the Singing Honeyeater *Lichenostomus virescens*, the Crested Bellbird *Oreoica gutturalis*, or the Chestnut Quail-thrush *Cinclosoma castanatum*.

Species occurring on the forest edges either in the northern or eastern woodlands or along the coastal strip include the two listed species of parrot, Muir's (Western) Long-billed Corella *Cacatua pastinator pastinator* EN and Carnaby's Cockatoo *Calyptorhynchus latirostris* EN.

The former may nest in forest edge trees in the Lake Muir area and the latter may nest in the north eastern woodlands of wandoo *Eucalyptus wandoo* and *E. accedens*. It seems unlikely that either species would be affected by low intensity prescribed burns.



Neither species is likely to be affected by timber harvesting operations as most of the north-eastern wandoo woodlands are not subject to timber cutting and most of the area surrounding Lake Muir is reserved.

Another parrot that comes into the woodland edges to nest in a tree hollow or spout, the Elegant Parrot *Neophema elegans*, is known to sometimes increase in numbers as a result of increased growth of herbs and grasses following fire [Brooker and Rowley 1991].

The Rock Parrot *Neophema petrophila* occurs along the coast in samphire but may occasionally be seen in trees along the forest edge.

The Welcome Swallow *Hirundo neoxena* and Fairy Martin *Hirundo ariel* are open country species that may be seen occasionally over forested areas especially in the north. Both these swallows nest in man made structures such as barns and under bridges and also in caves and they both feed on the wing [see Serventy and Whittell 1967]. These birds are unlikely to be affected by prescribed fire or by timber harvesting operations.

The Rufous Songlark *Cinclorhamphus mathewsi* and Brown Songlark *Cinclorhamphus cruralis* and Willy Wagtail *Rhipidura leucophrys*, are all open country species that may be found on farmland on the north and eastern forest boundary, along the coastal strip. In the case of the Brown Songlark and the Willy Wagtail they are also common on cleared farmland within the forest area itself. None of these are likely to be affected by either forest fires or timber harvesting operations.

The Australian Magpie-lark *Grallina cyanoleuca* and Grey Butcherbird *Cracticus torquatus* also are open country species that may be found on farmland and also along the forest edge.

A number of primarily arid country birds may be found in the northern woodlands, these include: the Crested Pigeon *Ocyphaps lophotes*, the Galah *Cacatua roseicapilla*, the Little Corella *Cacatua sanguinea*, the Sulphur-crested Cockatoo *Cacatua galerita*, the Regent Parrot *Polytelis anthoepus*, the Budgerigar *Melopsittacus undulatus*, the White-backed Swallow *Cheramoeca leucosternum*, the Yellow-throated Miner *Manorina flavigula*, the White-eared Honeyeater *Lichenostomus leucotis*, the Yellow-plumed Honeyeater *Lichenostomus ornatus*, the White-fronted Honeyeater *Phylidonyris albigularis* and the Little Crow *Corvus bennet* [see Serventy and Whittell 1967].

These birds may utilize the woodlands for feeding and/or nesting and it is possible that some of them may on occasion be affected by fire. However since they are almost all recent immigrants from the drier inland areas and seem to have coped with the prescribed fire regime to date it seems that they are capable of living with the present fire regime.

The areas where most of these species occur, the northern woodlands, are not subject to timber harvesting operations.

Finally two exotic species, the Spotted Turtle-Dove *Streptopelia chinensis* and the Laughing Turtle-Dove *Streptopelia senegalensis*, both doves from Africa, are found in places on farmland at various locations in the forest areas and may nest in forest edge trees.

### **(g) Seasonal brds**

The Fork-tailed Swift *Apus pacificus* is a summer migrant from Russia and northern Asia that may be sighted anywhere over the forested area, they are never seen to alight anywhere in trees [Serventy and Whittell 1967]. This species is not likely to be affected by either fire or timber harvesting. The Purple-crowned Lorikeet *Glossopsitta porphyrocephala* is a bird of the greater south-west, occurring throughout the mallee, woodland and forest areas whenever and wherever eucalypts are flowering [see Churchill and Christensen 1970 and Christensen 1971]. Intense fires may affect flowering cycles of *Eucalyptus* species and *Corymbia* species, but the birds vast range and mobility ensures that such events cause it minimal disturbance.

Timber harvesting may disrupt the flowering cycles of the major species of *Eucalyptus* for up to 20-30 years [Christensen pers. obs.] but the rotation of harvesting coupes together with the large areas of reserved forest ensure that a continuous and plentiful supply of flowers are always available.

The Emu *Dromaius novaehollandiae*, may be found anywhere in the forest although it is partially migratory and numbers fluctuate with season. It feeds in recently burnt areas and on newly harvested coupes but may be excluded from regenerating areas for some years by the dense growth of saplings that follows clear-felling in karri and heavy selection cutting in jarrah [see Serventy and Whittell 1967, and Christensen *et al* 1985].

### **(h) Ground nesting birds**

Birds in this group, especially the larger species, may suffer from fox predation of their eggs and young, as a consequence of their ground nesting habits. Birds that nest in very open areas following fire may be more prone to this kind of predation. Some species may be advantaged by frequent fires and also timber harvesting and regeneration operations in the short term as these operations open up the understorey and regenerate seed producing 'food-plants'.

The Mallee Fowl *Leipoa ocellata* VU has a very limited distribution within the Southern forest [see Christensen *et al* 1985 and Abbott 1999] where it may be affected by fire as well as timber harvesting operations. A species profile has been drawn up for this species which outlines areas of concern and prescribes actions to deal with these (see CALM's Fire Biodiversity Management Database).

The Australian Bustard *Ardeotis Australis* P4 is an infrequent visitor to the northern woodland and heathland areas. This bird is often seen on recently burnt areas in the arid zone [Christensen pers. obs.], it is unlikely that fire will have any detrimental effect on this species. Timber harvesting and regeneration operations are not carried out in the area concerned.

Four species of quail may occur in various parts of the forested area.

The Stubble Quail *Coturnix novaehollandiae* generally occurs in pasture lands, but it is not uncommon in open woodland and in heathland habitat and sightings have even been made on a track in the karri forest [Christensen *et al* 1985]. Nesting may be interrupted temporarily by fire but this is usually followed by a short lived increased in food supply, grasses and other seeds,

which accompanies early fire succession in these habitats. Frequent fire events may benefit this species.

The Brown Quail *Coturnix australis* may be locally common in some areas. Birds were positively identified in open sedgeland near the Frankland River where they appeared to be relatively common [Christensen *et al* 1985]. Mc Farland [1988] states that fire induced herb and grass seed abundance may cause temporary increases in this species.

The Painted Button-quail *Turnix varia* may be locally common in jarrah or wandoo woodlands. In the Perup forest this species was locally common in these woodlands in areas with a leguminous scrub layer, [Christensen *et al* 1985]. Leguminous scrub species are hard seeded and are advantaged by frequent fires [Christensen and Kimber 1975].

The Little Button-quail *Turnix velox* is a bird of the inland open grass and spinifex plains where it may be extremely common following good seasons. If fire is followed by good rains they advantage this species. It is rare in the South-west and in the forest areas but is occasionally sighted in the northern open woodlands and heathlands.

Quail are not generally disturbed by timber harvesting because of their usually non-timber habitat, they may be temporarily advantaged by opening of the forest during the early stages of regeneration [Christensen pers. obs.].

The Bush Stone-Curlew *Burhinus grallarius* P4 is now rare in the south-west. It possibly still occurs in areas of gassy woodland in the northern parts of the forest. Little is known of this species but it is considered that like other grassland species fire may not be a problem. Timber cutting is not likely to pose any threat because the habitat in which it occurs is not harvested for timber.

Likewise the Hooded Plover *Thinornis rubricollis rubricollis* P4, the Red-kneed Dotterel *Erythrogogys cinctus*, the Black-fronted Plover *Charadrius melanops* and the Red-capped Plover *Charadrius ruficapillus* occur primarily on the bare margins of lakes and swamps and are unlikely to be affected by either fire or timber harvesting.

The Banded Lapwing *Vanellus tricolor* may be encountered on open areas in the northern and eastern forest, but it is mainly a bird of arable land in the south-west.

The Spotted Nightjar *Eurostopodus argus* is a species of the inland open and rocky country and is rarely seen in the forested areas, but it may occur in parts of the northern open woodlands.

These last two species may be temporarily displaced by fires, timber harvesting is not an issue.

### **5.2.3 Reptiles**

There is little information on reptile ecology relating to either fire [see Bamford and Roberts 2003] or timber harvesting and regeneration [see Goldingay *et al* 1996]. What little there is, together with field observations, suggest that reptiles as a group appear to cope well with disturbance. They are able to hide in holes in the ground, logs and crevices and often are able to escape the

immediate effects of disturbance. Because they are cold blooded and tend to prefer open areas and breed quickly they also are able to take advantage of early fire succession [see Christensen and Abbott 1989 and Bamford and Roberts 2003].

### **(a) Skinks**

Twenty skinks have been recorded from within the forested area [Storr *et al* 1981 and 1999, Christensen *et al* 1985 and Cogger 2000].

Nine of these may be considered forest or higher rainfall species.

Of these, three species, the Chain-striped Ctenotus *Ctenotus catenifer* P1, the Glossy Swamp Skink *Egernia luctuosa*, and the South-western Mulch Skink *Glaphromorphus koontoolasi* prefer moist or humid sites [Christensen *et al* 1985]. No work has been done on the ecology of these species but it may be assumed that all of them will be affected by fire to some degree depending on the season and intensity of burning. Mild spring burns may leave much of their habitat unburnt, whereas fires burning under drier conditions are likely to burn it. The distribution of these species is not known well enough to take special account of any of them when planning burning but it is considered that CALM's Fire Management Services Biodiversity Program will cater for their needs.

The remaining six skinks, the Darling Range Ctenotus *Ctenotus delli* P4, the South-western Crevice Skink *Egernia napoleonis*, the Five-toed Earless Skink *Hemiergus initialis initialis*, the South-western Cool Skink *Acritoscincus trilineatum*, the Red-legged Skink *Ctenotus labillardieri* and the Spectacled Rock Skink *Egernia pulchra pulchra*, are generally found in or under logs, in dead Balga *Xanthorrhoea preissii* stumps or in the case of the last two, under rocks on granite outcrops [Christensen *et al* 1985]. These species may survive the immediate effects of low intensity fires, fires of high intensity are more likely to affect their habitat.

A further nine species are primarily found in drier open forests, woodlands and heathlands [see Storr *et al* 1981, Christensen *et al* 1985 and Cogger 2000].

Four of these species have been studied, in the case of two of these, the Fence Skink *Cryptoblepharus plagiocephalus*, [Bamford 1986] and the Common Dwarf Skink *Menetia greyii* no relationship was found with time since fire, although it was suggested that the latter may decrease in the absence of fire [Bamford 1995]. The remaining two skinks, the Elegant Slider *Lerista elegans* and the Western Pale-flecked Skink *Morethia lineocellata* both appear to be late succession species [Bamford 1986 and Friend 1993].

The Odd-striped Ctenotus *Ctenotus impar*, the Four-toed Earless Skink *Hemiergus peronii peronii* and the Three-toed Earless Skink *Hemiergus peronii tridactyla*, the South-western Orange-tailed Skink *Lerista distinguenda*, the Slippery Skink *Lerista microtis* and the Woodland Skink *Morethia obscura* have not been studied.

The two larger skinks, King's Skink *Egernia kingii* and the Bobtail *Tiliqua rugosa* are both widespread being found in many habitats throughout the forest area. It is considered that diverse fire regimes planned for under

CALM's Fire Management Services Biodiversity program will cater for the needs of all of these skinks.

The Kingston study is starting to yield information on the effects of timber harvesting and regeneration on skinks. In broad terms it appears that captures of reptile captures in forest that has a history of timber harvesting, are higher than in 'old growth' areas [Forest Check 2002 and 2003].

### **(b) Geckos**

Of the six species of gecko have been recorded within the forested area [see Storr *et al* 1990, Christensen *et al* 1985 and Cogger 2000], only the Marbled gecko *Christinus marmoratus* may be said to be common. The Marbled gecko is arboreal and occurs throughout most of the forest under bark, flaking rocks and other similar habitat. It appears to be adapted to disturbance as it is commonly found in recently burned or cut and regenerated forest [Christensen pers. obs.].

The other arboreal species, the Barking gecko *Underwoodisaurus millii* supposedly occurs throughout the forest also but it may be primarily a woodland species that does not occur in the main jarrah and karri forest belt [Christensen pers. obs.].

The remaining four species, all terrestrial, the Wheatbelt Stone Gecko *Diplodactylus granariensis*, the Speckled Stone Gecko *Diplodactylus polyopthalmus*, the Fine-faced Gecko *Diplodactylus pulcher* and the South-Western Spiny-tailed Gecko *Strophurus spinigerus* are all northern lower rainfall species that may occur in the northern woodland and heathland communities [see Storr *et al* 1990 and Cogger 2000].

Little is known of the fire ecology of geckoes but their needs should be taken care of by the CALM Fire Biodiversity program

The only gecko that is likely to occur within the production forest area is the Marbled gecko [see Christensen *et al* 1985] whose likely response to timber harvesting and regeneration was mentioned earlier.

### **(c) Legless Lizards**

Five species have been recorded within the forested areas [see Storr *et al* 1990, Christensen *et al* 1985 and Cogger 2000], a sixth, the Marbled-faced Delma *Delma australis*, is shown in Cogger [2000] on his distribution map as also occurring within the area.

All five species are essentially drier area species that occur in woodlands, heathlands and coastal shrub on the fringes of the forested area. The species are the Western Granite Worm-Lizard *Aprasia pulchella*, the Sedgelands Worm-Lizard *Aprasia repens*, Fraser's Scale-Footed Lizard *Delma fraseri*, Burton's Snake-Lizard *Lialis burtonis* and the Common Scaly-Foot *Pygopus lepidopodus*.

With respect to the effects of fire, again little is known, but Bamford and Roberts [2003], reviewing the state of knowledge of reptile fire ecology, suggest that reptiles may be fairly resilient and return rapidly in areas where recovery of plant communities following fire is rapid.

There is no information on the effect of timber harvesting on any of these species. All of them occur almost exclusively in woodland and heathland areas, most of which is reserved, so it seems unlikely that timber harvesting will affect these species to any significant extent.

#### **(d) Dragons and Monitors**

Three species of dragon may be found in suitable habitat within the forested areas [see Storr *et al* 1993 and Cogger 2000]. The ornate dragon *Ctenophorus ornatus*, is essentially a rock dwelling species that may be found under exfoliating rock slabs on rock outcrops, mainly granite, in the eastern wandoo woodlands to the north of Collie. The Western bearded dragon *Pogona minor*, is a semi-arboreal species that may be found in forest and woodland areas to the north of Collie. The last one *Tympanocryptis adalaidensis* is found in heath and woodland communities in the northern parts of the area. Only the bearded dragon occurs in forested areas subject to timber harvesting and there appears to be no information on the effects of timber harvesting on this species.

There is some information on the effect of fire on two of the species *T. adalaidensis* and *P. minor* [see Bamford 1992, 1995 and Bamford and Bamford 2001]. The Bamfords' studies suggest that both dragons may be fairly resilient to a fire interval of 5 to 10 years which is what is currently practiced in forested areas and CALM reserves.

Gould's goanna *Varanus gouldii* occurs in the northern parts of the area in a variety of habitats. The very similar *Varanus rosenbergi* is widely distributed throughout the forest area in a wide range of habitat from karri forest to shrub, heath and coastal sand dunes. The latter appears to have declined in recent years, it is not known whether this is also the case with the Gould's goanna. This decline may be a result of predation by foxes, on the Peron peninsula where CALM has controlled foxes since 1995, Gould's goanna made an amazing recovery within a few years [Morris *et al* 2002].

#### **(e) Turtles**

Only one turtle, the long-necked turtle *Chelodina oblonga* occurs within the area. The species is common in most rivers and swamps throughout the area and because of its habits this species is not considered to be significantly affected by either fire or timber harvesting.

#### **(f) Snakes**

Some 20 snakes, including three blind-snakes, occur within the area [see Storr *et al* 1986, Christensen *et al* 1985 and Cogger 2000].

The three blind-snakes *Ramphotyphlops australis*, the rotund blind snake *Ramphotyphlops pinguis* and the beaked blind snake *Ramphotyphlops waitii* all feed on ants and termites and are usually found under rocks or in termite nests. As they seldom venture above ground and their food source, ants and termites, are fairly resilient to fires [see review by van Heurck and Abbott 2003], blind snakes are likely to be minimally affected by fire. No information is available on the effects of timber harvesting.

The python *Aspidites ramsayi* (or Woma) P1, may still occur in the very northern parts of the area, now very rare throughout its range, it is essentially an arid area species. Stimson's python *Liasis stimsoni* also occurs in the very northern parts of the area. The only python that is distributed throughout the area is the Carpet python *Morelia spilota* P1, is now also very uncommon, most likely as a result of predation by foxes. Like Gould's goanna, the Woma has increased on the Peron peninsula [Morris et al 2002] which supports the view that pythons, like Varanids and other large reptiles, are adversely affected by fox predation.

There appears to be no information on the effects of either fire or timber harvesting on any of these species. It is possible that opening up of the understorey by fire may expose pythons more to fox predation and hence for fire to have a detrimental effect. However with no way of locating or prediction where 'colonies' of these snakes might exist it is impossible to prescribe any management actions that might benefit the pythons except for no burning which is not a realistic option. [see Abbott and Burrows 2003].

With respect to timber harvesting it is considered that the range of standard silvicultural and other measures taken to protect fauna are adequate to cater for the Carpet python, the species likely that is likely to occur within timber harvesting areas.

A further 14 species of snakes, all belonging to the large Australian group of front-fanged snakes, the Elapidae, also occur within the area.

Two of these the Tiger snake *Notechis scutatus occidentalis* and the Dugite *Pseudonaja affinis affinis* occur in suitable habitat across most of the forest, the other species are predominantly woodland, coastal heath or sand dune species. These include; the Southern Death Adder, *Acanthophis antarcticus* P3, the Yellow-faced Whip snake *Demansia psammophis*, the Crowned snake *Elapognathus coronatus*, the Short-nosed snake *Elapognathus minor* P2, the Bardick *Echiopsis curta*, the Gwardar *Pseudonaja nuchalis*, the Square-nosed snake *Rhinoplocephalus bicolor*, Gould's snake *Rhinoplocephalus gouldii*, the Black-backed snake *Rhinoplocephalus nigriceps*, Jan's Banded snake *Simaselaps bertholdi*, the Black-naped snake *Neelaps bimaculatus* and the Southern Shovel-nosed snake *Brachyuropsis semifasciata*.

The Tiger snake and the Dugite are the only ones likely to occur within a significant proportion of timber harvesting coupes. Of the remainder the Death adder, the Whip snake, Gould's snake, the the Black-backed snake, Jan's Banded snake, and the Southern Shovel-nosed snake, may all occasionally occur in wandoo woodland coupes.

With respect to fire, the general statement that reptiles are considered fairly resilient to fire [see Bamford and Roberts 2003], is all that there is to go on at the moment. The varied fire regimes that will result from CALM's Fire Management Services Biodiversity program should provide adequate protection for all of these snakes.

No information is available on the effect of timber harvesting on any of these species but again the standard silvicultural and other protective measures are considered to adequately cater for them.

In summary it is considered that none of the reptiles are in any danger from timber harvesting carried out under the current guidelines in the Forest Management Plan 2004-2014 [see Conservation Commission 2004].

With respect to fire the two large pythons may be disadvantaged by frequent fire in the absence of fox control. It is however difficult to prescribe sensible protective measures for species that are so widespread and infrequent in occurrence. The Western Shield fox control measures that are already in place over the greater part of the forest area should assist the recovery of both species. Monitoring under the FORESTCHECK program should, in time, provide evidence of any recovery that may be taking place.

#### 5.2.4 Frogs

A total of 23 species of frogs occur within the forested area [see Christensen *et al* 1985 and Cogger 2000]. Eight species, including; the Quacking frog *Crinia georgiana*, the Moaning frog *Heleioporus eyrei*, the Burrowing frog *Heleioporus inornatus*, the Western Bell (or Motorbike) frog *Limnodynastes dorsalis*, the Slender tree frog *Litoria adelaidensis*, the Green and Gold tree frog *Litoria moorei*, Gunther's toadlet *Pseudophryne guentheri* and Glauert's froglet *Crinia glauerti* are all widespread in suitable moist habitats throughout the area.

The Humming frog *Neobatrachus pleobotoides* may also occur throughout, as indicated in the texts e.g. Cogger [2000], but Christensen *et al* [1985] found it not to be very common and only present in the south.

A further six species are restricted primarily to the southern forests, these include; the Nornalup frog *Geocrinia lutea* (P4), Lea's frog *Geocrinia leai*, the Roseate frog *Geocrinia rosea*, Nicholl's frog *Metacrinia nichollsi*, the South coast froglet *Crinia subinsignifera* and the Sunset frog *Spicospina flammocaerulea* (VU).

Four species, the Western Spotted frog *Helioporous albopunctatus*, the Western Marsh frog *Helioporous barycragus*, the Turtle frog *Myobatrachus gouldii* and the Bleating froglet *Crinia pseudinsignifera*, are primarily frogs of the Northern and Central forest regions. The Turtle frog *Myobatrachus gouldii* does not enter the main forest belt, mainly occurring in the eastern woodland fringe with outliers in sandy patches along the Blackwood River. The Squelching frog *Crinia insignifera* is confined to the Swan Coastal Plain and hybridises with *C. pseudinsignifera* along the foot of the Darling Scarp. The Sand frog *Helioporous psammophilus* occurs predominantly in coastal and sub-coastal areas and is also very common in the eastern half of the Northern Jarrah forest. The White-bellied frog *Geocrinia vittelina* (VU) and Yellow-bellied frog *Geocrinia alba* (CR) occur in restricted habitat on the Blackwood Plateau.

The only study on the effects of timber harvesting on south-west frogs is the Kingston study which at this stage has not apparently revealed any detrimental effects on any of the 16 species recorded from the study site [Forest Check 2003]. This study is ongoing and will undoubtedly provide further information in the future.



Many species of frogs are largely restricted to the vicinity of watercourses, wetlands or seasonally wet situations, sites that are either protected within the reserve system or otherwise excluded from the direct effects of timber harvesting [see Conservation Commission 2004]

Seven species in particular, the four *Heleioporus* species together with *Myobatrachus gouldii*, *Limnodynastes dorsalis* and *Metacrinia nicholsi* are all regularly found away from moist situations and are therefore the most likely species to occur within timber harvesting coupes. For the time being it must be assumed that these frogs are adequately protected by the current standard silvicultural measures specified in the Forest Management Plan [see Conservation Commission 2004] together with the fact that a substantial proportion of the population of each species is represented within the reserve system.

The most vulnerable frogs are the four with very restricted distributions, *Geocrinia alba* (CR), *Geocrinia vittelina* (VU), *Geocrinia lutea* (P4) and *Spicospina flammocaerulea* (VU). The distributions of each of these species is well known and they are protected within reserves, they are also listed as 'species to be taken special account of' in the FDIS system and have special prescriptions for timber harvesting and fire that are outlined in their 'Species Schedules'.

With respect to fire more is known, the most detailed studies have focussed on the four restricted species, [see Driscoll and Roberts 1997, Driscoll 1998a, 1998b, 1998c, Roberts *et al* 1999, Conroy 2001 and Burbidge and Roberts 2002], summarised in Bamford, M. J. & Roberts, J. D. [2003].

Burbidge and Roberts [2002] suggest that disturbance by fire may be a critical factor in promoting breeding in *Spicospina flammocaerulea*. [See also Bamford, M. J. & Roberts, J. D. 2003.]

Detail with respect to the fire management of each of the four frogs with restricted distribution species are included in Species Schedules in CALM's Fire Biodiversity Management database.

With respect to the other species Bamford [1986] and Bamford [1992] studied frogs in *Banksia* woodland and found that fire had little effect on the abundance of frogs. The species studied included three burrowing frogs, *Heleioporus eyrei*, *Limnodynastes dorsalis* and *Myobatrachus gouldii* as well as *Neobatrachus peleobatooides* and *Pseudophryne guentheri*. A similar conclusion was also reached by Arnold [1993] with respect to *Pseudophryne guentheri* and also *Heleioporus albopunctatus*.

Bamford and Roberts [2003] summarize these studies and suggest that frog assemblages may be a product of past fire events and that there may be population declines following fire followed by recovery.

The studies also suggest that recovery times are generally within the range of current prescribed burning intervals, viz. 5 to 8 years.

### **5.2.5 Fish**

A total of 12 species of native fish occur in waterways and wetlands within the area [see Allen 1982, Christensen *et al* 1985 and Horwitz *et al* 1997].

The Pouched Lamprey *Geotria australis*, spends only part of its life cycle in south west rivers and the Mangrove Mullet *Mugil cephalus*, is essentially an estuarine species. Two others, the Hardyhead *Atherinosoma ssp.* and the Swan River Goby *Pseudogobius alorum* are estuarine and coastal species also occurring outside of the south west area.

The Salamander fish *Lepidogalaxias salamandroides* P4, the Black-striped minnow *Galaxiella nigrostriatus* P3, the Mud minnow *Galaxiella munda*, Balston's Pygmy Perch *Nannatherina balstoni* P4, the Westwern minnow *Galaxias occidentalis*, the Night fish *Bostockia porosa*, the Western Pygmy Perch *Edelia vittata*, and the Freshwater Cobbler *Tandanus bostocki* are all considered Regional endemics [Trayler *et al* 1996]. The three listed species, together with the Mud minnow, are included on the Australian Society for Fish Biology's list of Australian threatened fishes.

In addition to the native species a further five species of exotic fishes may also be found in some of the rivers and lakes of the forested area, these are; the Rainbow trout *Salmo gairdneri*, the Brown trout *Salmo trutta*, the Carp *Carassius carassius*, the Redfin Perch *Perca fluviatilis* and the Mosquito fish *Gambusia affinis*.

Little or no information exists on the impact of timber harvesting and regeneration operations on fish [Horwitz *et al* 1997]. These authors list some recommendations relating to positioning of roads, protection of seepage sites and streams and other practical measures that may be taken to minimize the effects of timber harvesting on fishes. These recommendations have been largely addressed in the current Forest Management Plan 2004-2014 [see Conservation Commission 2004]. Until further information becomes available it is considered that the regionally endemic small fishes are protected to a sufficient degree by the comprehensive reserve system and the measures outlined in the Forest Management Plan.

Horwitz *et al* [1997] caution that several of the fish species may be affected if peatlands are burned under dry conditions, especially *Lepidogalaxias salamandroides* and *Galaxiella nigrostriatus*, both known to aestivate in peatland pools when these dry out [see Pusey 1981]. The recommendations for the burning of peat areas are addressed in the guidelines for burning this kind of habitat provided in the FDIS part of CALM's Fire Management Services Biodiversity Project.

## **6. SPECIES TO CHECK FOR PRIOR TO PRESCRIBED BURNING AND TIMBER HARVESTING OPERATIONS**

The above review of forest vertebrates on the effects of prescribed burning and timber harvesting operations suggests that the majority of species should not be of major concern to managers charged with planning and executing these disturbance events [see also Christensen 1997].

There is however a suite of species, highlighted in this review, that may be affected by timber harvesting and regeneration operations, prescribed fire, or both.

These species are dealt with in more detail below.

### **6.1 Species Of Concern With Respect To Prescribed Burning**

The species that are of concern with respect to prescribed fire and which should be taken into consideration when planning prescribed burning operations, were selected using four different criteria:

- Late succession species - the table of 'Predicted impacts of prescribed spring and autumn fire on Forest Vertebrate species' (see Appendix 4) was used to select species listed as 'late succession species'.
- Species living in Fire sensitive habitats - a list of species was compiled with habitat requirements considered to make them 'sensitive' to fire.
- Threatened species - species occurring in the CALM Regions of, Swan, South West and Warren and listed on the W.A. 'Wildlife Conservation Threatened and Protected Fauna' list, July 2004 and including also 'Changes to the list' dated 19.8.2004, were selected.
- Restricted species - a list of species was compiled by running the FDIS program selecting species listed as being restricted to three or less of the 54 FDIS 'Fauna Habitat' types.

Using these criteria a Preliminary list of 64 species comprising, 13 mammals, 30 birds, 9 reptiles, 9 frogs and 3 fish were selected (see Appendix 5). From this Preliminary list, 21 species comprising, 2 mammals, 16 birds and three frogs, were extracted (see Appendix 6). The 21 species listed in Appendix 6 were extracted from the Preliminary list of 64 species because:

- they were listed under more than 2 of the original selection criteria; or
- they are known to live in restricted and 'fire sensitive' habitats.

The remaining 43 species were not considered to warrant special attention because they are reasonably widespread species and not likely to be significantly impacted by the present regime of prescribed fire

These 21 species are all taxa that it is considered need to be checked for prior to burning.

### 6.1.1 Management categories for species that need to be checked for prior to prescribed burning

The 21 selected species (Appendix 6) have been assigned to 'Management categories' to make them easier to deal with in respect to fire management.

#### (a) Category 1: Individual treatment species

The species in this category are species that are restricted to specific and restricted habitats and which need to be planned for on an individual basis when any of them are predicted to occur within a planned burn.

Species Schedules have been prepared for each species detailing their biology along with recommendations regarding management procedures to be followed when they are predicted to occur within a planned burn (Species Schedules are contained in Appendix 7 and in CALM's Fire Management Services Biodiversity system database).

Species Profile 1 - Tammar wallaby (*Macropus eugenii*) CD, P4

Species Profile 2 - Quokka (*Setonix brachyurus*) VU

Species Profile 3 - Mallee Fowl (*Leipoa ocellata*) VU

Species Profile 4 - Noisy Scrub bird (*Atrichornis clamosus*) VU

Species Profile 6 - White-bellied frog (*Geocrinia alba*) CR

Species Profile 7 - Orange-bellied frog (*Geocrinia vitellina*) VU

Species Profile 8 - Nornalup frog (*Geocrinia lutea*) VU

Species Profile 9 - Sunset frog (*Spicospina flammocaerulea*) VU

#### (b) Category 2 Species of swamps and lakes

These are species that live in habitats that are of restricted distribution in the south-west forested area, freshwater lakes and swamps with reeds and rushes, plant communities that are highly flammable under certain conditions. For these species generic schedules detailing with the biology of a group of species with similar fire management requirements have been prepared (see Appendix 7 and also CALM's Fire Management Services Biodiversity system database).

Species Profile 10 - Species of Swamps and Lakes.

Australasian Bittern (*Botaurus poiciloptilus*) VU - freshwater swamps

Little Bittern (*Ixobrychus minutus*) P4 - freshwater swamps

Dusky Moorhen (*Gallinula tenebrosa*) - fresh water

Blue-billed duck (*Oxyura australis*) - freshwater swamps

Freckled duck (*Stricktonetta naevosa*) - prefers fresh water

Musk duck (*Biziura lobata*) - prefers fresh water

Clamorous Reed-Warbler (*Acrocephalus stentoreus*) - freshwater reed beds

Purple Swamphen (*Porphyrio porphyrio*) - sometimes saline

Little Grassbird (*Megalurus gramineus*) - also salt-marshes

**(c) Category 3 Species of watercourses with reeds and rushes**

These are species that live and nest in dense reed and rush beds or nest in trees overhanging watercourses, rivers, estuaries or inlets, once again, habitats that are highly flammable under certain conditions. Generic schedules detailing biology and recommended management actions have been prepared for these species also (see Appendix 7 and also CALM's Fire Management Services Biodiversity system database).

Species Profile 11 - Species of Watercourses with reeds and rushes.

Black Bittern P2 (*Ixobrychus flavicollis*) - forested fresh rivers and inlets

Spotless Crake (*Porzana tabuensis*) - freshwater swamps/water channels

Buff-banded Rail (*Gallirallus philippensis*) - freshwater channels and mangroves

Rufous Night Heron (*Nycticorax caledonicus*) - fresh and brackish watercourses

**(d) Category 4 (Fire Management) Species to keep an eye on**

These species were not selected using the above criteria but are species that it is considered could decline in the future depending on the continuation and success of the Western Shield Fox baiting program. The reason they are listed here is because it is considered that fire could be a factor in determining the level of impact of fox predation on populations of these species, depending on the fire regimes that are adopted. The evidence in support of this contention is at present equivocal but it is considered that it would be prudent to monitor these species where possible.

Monitoring of these species could be included as a part of Western Shield and FORESTCHECK monitoring.

Species Profile 12 - Species to keep an eye on - at risk in the absence of fox baiting.

Western Brush Wallaby (*Macropus irma*) P4

Common Brushtail Possum (*Trichosurus vulpecula*)

Western Ringtail Possum (*Pseudocheirus occidentalis*) VU

Western Pygmy Possum (*Cercartetus concinnus*)

Chuditch (*Dasyurus geoffroii*) VU

Numbat (*Myrmecobius fasciatus*) VU

Echidna (*Tachyglossus aculeatus*)

Carpet Python (*Morelia spilota*) P1

Woma (*Aspidites ramsayi*) P1

Heath Monitor (*Varanus tristis*)

Bobtail (*Tiliqua rugosa*)

## 6.2 Species Of Concern With Respect To Timber Harvesting

Any one of the 315 Mattiske / Havel Vegetation Complexes that occur within the forest area may be affected by fire at one time or another, but only a proportion of the Vegetation Complexes will be subject to timber harvesting and regeneration operations.

An FDIS listing of fauna in the Vegetation Complexes that occur within reserves suggests that all of the 308 native vertebrate species are represented within the reserved area. Listing of fauna in Vegetation Complexes occurring within production forest suggests that only about 60% of all vertebrate taxa occur in the Vegetation Complexes subject to timber harvesting (Table2).

It is important to note that almost 40% of all vertebrate species which occur within the forest area will never be exposed to the direct effects of timber harvesting and regeneration operations and are therefore unlikely to be affected to any great extent by this activity. These species were all discussed earlier.

**Table 2. Fauna occurrence in production and non-production forest Mattiske / Havel Vegetation Complexes based on 295 taxa (in 2001).**

	Production Forest Veg. Complexes		Non-production Veg. Complexes		Whole forest
	Total	%	Total	%	Total
Mammals (Native)	28	93.3	30	100	30
(Intro)	8	100	8	100	8
Birds (Native)	93	58.1	160	100	160
(Intro)	3	100	3	100	3
Reptiles (Total)	32	59.3	54	100	54
Skinks	15	71.4	21	100	21
Geckos	3	50	6	100	6
Pygopods	3	50	6	100	6
Dragons	4	100	4	100	4
Turtles	-	-	1	100	1
Snakes	7	53.8	16	100	16
Frogs	16	69.6	23	100	23
Fish (Native)	5	41.7	12	100	12
(Intro)	1	20	5	100	5
<b>TOTAL</b>	<b>186</b>	<b>63.1</b>	<b>295</b>	<b>100</b>	<b>295</b>
<b>TOTAL NATIVE</b>	<b>174</b>	<b>62.4</b>	<b>279</b>	<b>100</b>	<b>279</b>

In selecting species that need to be taken into account when planning for timber harvesting and regeneration operations the following criteria were used:

1. Scheduled fauna - species occurring in the CALM Regions of, Swan, South West and Warren and listed on the W.A. 'Wildlife Conservation 'Threatened and Protected Fauna' list, July 2004, and including also, 'Changes to the list', dated 19.8.2004. were selected.
2. Restricted species - a list of species was compiled by running the FDIS program selecting species listed as being restricted to three or less of the 54 FDIS 'Fauna Habitat' types.
3. Habitat factor - hollow users, restricted habitat, special habitats etc.
4. Predicted impact - predicted impact of timber harvesting.

Using these criteria a Preliminary list of 74 species comprising, 22 mammals, 38 birds, 6 reptiles, 4 frogs and 4 fish were selected (see Appendix 5b). From this Preliminary list, 9 species comprising, 3 mammals, 2 birds and 4 frogs, were extracted (see Appendix 6b). The 9 species listed in Appendix 6b were extracted from the Preliminary list of 74 species because:

- they scored on all 4 of the selection criteria and tree falling was considered to make them more susceptible to fox predation.
- or they scored on 3 of the four criteria and are known to live in restricted or very restricted habitats and caution was considered necessary.

The remaining 65 species were considered to be reasonably widespread and to be well catered for by the reserve system as well as special silvicultural practices such as 'Habitat' tree retention, log and den protection, buffer retention etc.

The 9 selected species are all taxa that it is considered need to be checked for prior to burning.

### **6.2.1 Species to be taken into account with respect to timber harvesting and regeneration operations**

A total of nine species were selected using the above criteria, these are listed below.

#### **(a) Category 1 Individual Treatment species**

The species in this category are species that are restricted to specific and very restricted habitats and need to be planned for on an individual basis when any of them are predicted to occur within a planned timber harvesting coupe. All of them are on the Threatened or Priority species list and with the exception of the Western Ringtail possum, all are also on the Prescribed fire list.

Species Schedules prepared for the six species that are also listed in CALM's Fire Management Services Biodiversity system include timber harvesting also. A further Schedule was prepared for the Western Ringtail (All species Schedules are contained in Appendix 7 and also in CALM's Fire Management Services Biodiversity System database).

Species Profile 1 - Tammar wallaby (*Macropus eugenii*) CD P4

Species Profile 2 - Quokka (*Setonix brachyurus*) VU

Species Profile 13 -Western Ringtail possum (*Pseudocheirus occidentalis*) VU

Species Profile 3 - Mallee fowl (*Leipoa ocellata*) VU

Species Profile 4 - Noisy Scrub bird (*Atrichornis clamosus*)

Species Profile 6 - White-bellied frog (*Geocrinia alba*) CR

Species Profile 7 - Orange-bellied frog (*Geocrinia vitellina*) VU

Species Profile 8 - Nornalup frog (*Geocrinia lutea*) VU

Species Profile 9 - Sunset frog (*Spicospina flammocaerulea*) VU

#### **(b) Category 2 (Timber Harvesting) Species to keep an eye on**

The species in this category were not selected using the above criteria but they are species that it is considered 'prudent to keep an eye on'. The species were selected by the two senior authors and are all species that use tree hollows, mostly in large trees. At the present time their requirements are believed to be catered for by the reserve system and the conditions listed in the Forest Management Plan 2004-2014 [see Conservation Commission 2004] but it is possible that things might change in the future.

Species Profile 12 - Species to keep an eye on

Common Brushtail Possum (*Trichosurus vulpecula*)

Brush-tailed Phascogale (*Phascogale tapoatafa*) P3

Western False Pipistrelle (*Falsistrellus mackenziei*)

Forest Red-tailed black Cockatoo (*Calyptorhynchus banksii naso*) P3

Baudin's Cockatoo (*Calyptorhynchus baudinii*) VU

Carnaby's Cockatoo (*Calyptorhynchus latirostris*) EN

Western Long-billed (Muir's) Corella (*Cacatua pastinator pastinator*) EN

### **6.3 Habitats That May Be Considered 'Fire Sensitive' With Respect To Fauna Conservation**

Fire may be regarded as an integral part of southwest forest ecosystems [Christensen and Abbott 1989 and Abbott and Burrows 2003]. Even so, a large proportion of southwest forest vegetation communities may be considered 'sensitive' to certain fire regimes with respect to fauna.

What is meant by this statement is that certain fire regimes, if imposed upon or allowed to occur in these vegetation communities, have the potential to cause long term and even irreversible changes to communities or populations of vertebrate fauna that are dependent on them.

Populations of fauna that were once widespread have been fragmented and their area of distribution has been reduced as a result of clearing of habitat, predation by the introduced fox, or both. An example is the tammar wallaby, which now lives in isolated populations in thickets that require a particular fire regime for their continued existence [see Christensen and Maisey 1987]. In pre-European times the tammar was able to cope with natural fire events because the it was more abundant and widespread than it is today and exotic predators like the fox were not a consideration. Today, fire may threaten



tammar populations if the thickets are burnt on an inappropriate cycle; fire management is essential if tammars are to continue to survive.

Reed swamps are a very restricted community and some of these contain populations of threatened species of Bitterns whose breeding may be interrupted by inappropriate burning cycles. Unless Bittern swamps are burned on rotation so that some swamps are always available for nesting the birds continued survival could be threatened.

Yet other plant communities contain thickets of seed regenerating species such as *Banksia occidentale* and *B. quercifolia*, species 'sensitive' to frequent recurring fires. Inappropriate fire regimes, wildfire or burning too frequently, can deplete the banksia thickets and with the thickets gone animals that live in them, such as the Honey possum, may disappear from the area.

The endangered Sunset frog lives in restricted peat swamp habitat that needs protection from inappropriate fire regimes. On the one hand the peat must be protected from fires burning under dry conditions which may burn out peat that has take thousands of years to accumulate. On the other hand there is some evidence to suggest that fire promotes breeding in this species [Burbidge and Roberts 2002]. One way to accommodate the seemingly diametrically opposed requirements of this frog is by using relatively frequent prescribed fire in spring when the peat is wet and will not be materially damaged by the burn.

Even fauna communities living in seemingly fire tolerant communities like wandoo woodland may be disrupted for long periods by inappropriate fire regimes.

Thus intense wildfires burning under dry conditions may kill a large proportion of mature trees over a wide area. These may regenerate but this is a slow process and it may take many years for the woodland to regain its former structure and species composition.

The forest communities that are considered to be fire 'sensitive' have all been described and recommendations with respect to their fire management provided [see Appendix 8] each one of them has also been mapped in ARCVIEW and the maps are located on both Femina Metcalfe's and Roger Hearn's computers.

It is especially important that these fire 'sensitive' communities are incorporated in fire planning because habitat protection and management may be arguably be considered more critical than individual species conservation.

## **7. LOCATION OF THE INFORMATION THAT FORMS THE BASIS OF FDIS**

At present the major part of the FDIS system is stored on two CALM computers:

Roger Hearn [Regional Ecologist] in Manjimup has that part of the system that relates to fauna predictions in timber harvesting coupes as well as most of the prescribed fire part of the predictive system.

The coupe predictive system comprises:

- the Fauna Habitat map, composed of amalgamations and grouping of the Havel/Mattiske Vegetation Complexes into 54 'Fauna Habitats';
- the main FDIS Fauna Habitat file, a table with predicted fauna occurrences in the 54 'Fauna Habitats' (see Appendix 2); and
- the table of Forest Regeneration phases following timber harvesting and regeneration with predicted duration of disturbance on fauna populations (see Appendix 3).
- Species maps for the harvesting sensitive species.

Femina Metcalfe (CALM's Fire Management Services) at Kensington has a duplicate set of that part of the system relating to fauna predictions and prescribed fire.

The CALM Fire system is described in Christensen [2004], the computer files contained in this system include:

- Individual species Schedules for each of the six Category 1 species as well as Schedules for category 2 and category 3 species groups (see Appendix 7);
- Predicted Impact of spring and autumn burning on forest vertebrates (see Appendix 4);
- Descriptions and recommendations for five categories of 'fire sensitive' habitats; and
- Maps of 'fire sensitive' fauna habitats.
- Species maps for the fire sensitive species.

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**Appendix 1. FOREST FAUNA HABITATS  
with COMPONENT MATISKE - HAVEL VEGETATION COMPLEXES**

No.	Vegetation Groups		Matiske-Havel Vegetation Complexes	Data File
1	Darling Plateau	Jarrah uplands North	D1, D2	Darling
2		Jarrah Uplands East	BEs, Bo1s, CO2, D3, D4, MT2, WG	
3		Jarrah Uplands South	BE1, BE2, BEy1, CO1, COd, COy1, CRd, HR, Kp, Ks, Ky, MT1, QP, QT, TP,	
4		Jarrah Uplands South East	BAf, BAg, BEy2, COp1, COp2, COy2, Lg, Lp, Ls, Ly, Mm, MTp1, MTp2, MTy2, PN, PP, Pu,	
5		Karri Uplands	BEb, COb, CP, CRb, CRy, Kb, Kg, MTb, MTy1	
6		Wandoo Uplands North	Y5	
7		Powder Bark Uplands	Y6	
8		Scarp	DB3, DS1,DS2, GA, WS2, WSv	
9		Depression/Swamps North	(None assigned)	
10		Depression/Swamps South	CL1, CT, KP, KR, YR	
11		Depressions/Swamps East	CL2, G, KUw, QU, QUs, QUw, , S, SK,	
12		Depressions/Swamps South East	CA, CM, MO, Nu, QN, SC,	
13		Jarrah Valleys North	He1, Lo, My1, Yg1, Yg2	
14		Jarrah Valleys East	BO, CB, WL	
15		Jarrah Valleys South	BL, BLf, BT, BTf, CC1, GR, ML, PM2, QW, QWf, SP, ST, YN2	
16		Jarrah Valleys South East	S2, S5, S6, st, V5, Va2, Va3, Wg, YE	
17		Karri Valleys	DO, LF, PM1, S1, V1, Vh2, Vh3, WA, WH1, YN1	
18		Wandoo Valleys North	Ck, He2, Mi, My2, Pn, Wi	
19		Powder Bark Valleys	Bi, No	
20		Granite Outcrops	Ce	
21	Various Systems	Estuaries and Open Water	Bwy, L, Lake, WATER	Various
22	Collie Plain	Uplands	CI, CF	Darling
23		Depressions/Swamps	MJ,	
24	Dandaragan Plateau	Uplands	Bwy, L, Lake, WATER, Cu, K, Mb, Re	Coastal
25		Valleys	Mh, Wn,	
26	Swan Coastal Plain	Uplands	AB, Ad, Co, FoGu	Coastal
27		Valleys	Adw, AF, Af, Aw, Br, Lw, Qw, SW, Yn	
28	Southern Plains	Jarrah	HA, HK, Q,	Redmond
29		Karri	A, V4,	
30		Heath/Sedgeland	BU, BW, BWp, KO, OW, Pi, S3, S4, Wp	
31	South Coast Dunes	South Coast Dunes	D, D5, Dd, Dd5, DE5, Dr, Drd, E, Gg, Mc, Mf, Mp, Mr, Ms, Mu, My,	Coastal
32	Blackwood Plateau	Jarrah Uplands	B, Bd, BN, CSs, JN, KI, N, Nd, T, Td, TL, WC, WCv, Y, Yd, MP	Blackwood
33		Karri Uplands	Bf	
34		Depressions/Swamps	Bw, CE, Nw,	
35		Valleys	Ba, BD, BK, DP, JL, LY, PR, RO, SS, Tw, Yf, Yw	
36	Margaret River Plateau	Jarrah Uplands	C1, C2, Cd, Cr, Hd, M, Wd, Wr	Blackwood
37		Karri Uplands	H,	
38		Jarrah Valleys	Cw2, Mv, Ww2	
39		Karri Valleys	Cw1, Hw, W1, W2, Ww1	
40	Leeuwin Naturaliste Coast	Jarrah	(None assigned)	Blackwood
41		Karri	G2, G3, Gk, Gv,	
42		Coastal Heath	GE, Ge, KB, KbE, KE, FEf, Kf, Kr, WE, We, WEw	
43	Scott Coastal Plain	Uplands	Sd, Sd2,	Coastal
44		Valleys/Swamps	CV, JA, Sw, Swd, Swi,	
45	Redmond	Uplands	Dc1, Ds, MI, R, TR1, TR2,	Redmond
46		Valleys	Bu, Dc2, F, f, S7, S8, t, V7, V8	
47	Unicup	Jarrah Uplands	FH1, UC3,	Redmond
48		Wandoo Uplands	FH2, GD2, Ya	
49		Jarrah Valleys	UC2,	
50		Wandoo Valleys	FH3, FH4, GD4, JP2, UC1,	
51		Shrubland	FH5, GD1, UC4,	
52	Swan Coastal Plain	Coastal Dunes	QD, Qwy	Coastal
53	Darling Plateau	Wandoo Uplands South	BE3, Bo1, Dk1, DM1, DM2, DMg, Fa1, KU1, KU2, MH, SD	Darling
54	Darling Plateau	Wandoo Valleys South	BR, CC2, CP1, CP2, Dk2, Dk3, Dk4, Dk5, Dk5f, Fa2, Fa3, Fa4, Fa5, GW, LK1, LK2, NW1, NW2, NWF1, NWF2, NWg1, NWg2, WH2, WH3, YEf	Darling



**KARRI VALLEY**







**JARRAH UPLANDS  
SOUTH EAST**



**WANDOO VALLEY**





**DEPRESSION AND SWAMPS  
SOUTH**



**JARRAH UPLANDS  
SOUTH**





**DEPRESSIONS AND SWAMPS  
SOUTH EAST**



**ESTUARIES AND  
OPEN WATER**



**GRANITE OUTCROPS**

**HEATH / SEDGELANDS**



**HEATH / SEDGELANDS**





**HEATH / SEDGELANDS**



## Appendix 2a

Fauna			Conservation			Major	
Taxon ID	Common Name	Scientific Name	Status	Harvesting	Fire	Group	Exotic
1	Western Grey Kangaroo	Macropus fuliginosus				M	No
2	Western Brush Wallaby	Macropus irma	P4		12	M	No
3	Tammar Wallaby	Macropus eugenii	P4	1	1	M	No
4	Quokka	Setonix brachyurus	VU	2	2	M	No
5	Woylie (Brush-tailed Bettong)	Bettongia penicillata	P4			M	No
6	Common Brushtail Possum	Trichosurus vulpecula		12	12	M	No
7	Western Ringtail Possum	Pseudocheirus occidentalis	VU	13	12	M	No
8	Western Pygmy Possum	Cercartetus concinnus			12	M	No
9	Honey Possum	Tarsipes rostratus				M	No
10	Quenda (Southern Brown Bandicoot)	Isoodon obesulus	P4			M	No
11	Chuditch (Western Quoll)	Dasyurus geoffroii	VU		12	M	No
12	Red-tailed Phascogale	Phascogale calura	EN			M	No
13	Brush-tailed Phascogale	Phascogale tapoatafa	P3			M	No
14	Mardo (Yellow-footed Antechinus)	Antechinus flavipes				M	No
15	Gilberts Dunnart	Sminthopsis gilberti				M	No
17	Grey-bellied Dunnart	Sminthopsis griseoventer				M	No
18	Numbat	Myrmecobius fasciatus	VU		12	M	No
19	Bush Rat	Rattus fuscipes				M	No
20	Water-rat	Hydromys chrysogaster	P4			M	No
21	Greater Long-eared Bat	Nyctophilus timoriensis				M	No
22	Lesser Long-eared Bat	Nyctophilus geoffroyi				M	No
23	Gould's Long-eared Bat	Nyctophilus gouldii				M	No
24	Gould's Wattled Bat	Chalinolobus gouldii				M	No
25	Chocolate Wattled Bat	Chalinolobus morio				M	No
26	King River Eptesicus	Eptesicus regulus				M	No
27	Western False Pipistrelle	Falsistrellus mackenziei	P4	12		M	No
28	White-striped Freetail Bat	Nyctinomus australis				M	No
29	Southern Freetail Bat	Mormopterus planiceps				M	No
30	Echidna	Tachyglossus aculeatus			12	M	No
31	Cat *	Felus catus				M	Yes
32	Dingo *	Canis lupus dingo				M	Yes
33	Goat *	Capra hircus				M	Yes
34	Horse *	Equus caballus				M	Yes
35	House Mouse *	Mus musculus				M	Yes

## Appendix 2a

Fauna			Conservation			Major	
Taxon ID	Common Name	Scientific Name	Status	Harvesting	Fire	Group	Exotic
36	Black Rat *	<i>Rattus rattus</i>				M	Yes
37	Rabbit *	<i>Oryctolagus cuniculus</i>				M	Yes
38	Fox *	<i>Vulpes vulpes</i>				M	Yes
39	Pig *	<i>Sus scrofa</i>				M	Yes
40	Emu	<i>Dromaius novae-hollandiae</i>				B	No
41	Australasian Little Grebe	<i>Tachybaptus novaehollandiae</i>				B	No
42	Hoary-headed Grebe	<i>Poliiocephalus poliocephalus</i>				B	No
43	Darter	<i>Anhinga melanogaster</i>				B	No
44	Little black Cormorant	<i>Phalacrocorax sulcirostris</i>				B	No
45	Little Pied Cormorant	<i>Phalacrocorax melanoleucos</i>				B	No
46	Pacific Heron	<i>Ardea pacifica</i>				B	No
47	White-faced Heron	<i>Ardea novaehollandiae</i>				B	No
48	Great Egret	<i>Egretta alba</i>				B	No
49	Rufous Night Heron	<i>Nycticorax caledonicus</i>			11	B	No
50	Little Bittern	<i>Ixobrychus minutus</i>	P4		10	B	No
51	Black Bittern	<i>Dupetor flavicollis</i>	P2		11	B	No
52	Australasian Bittern	<i>Botaurus poiciloptilus</i>	VU		10	B	No
53	Glossy Ibis	<i>Plegadis falcinellus</i>				B	No
54	Australian White (Sacred) Ibis	<i>Threskiornis aethiopica</i>				B	No
55	Straw-necked Ibis	<i>Threskiornis spinicollis</i>				B	No
56	Yellow-billed Spoonbill	<i>Platalea flavipes</i>				B	No
57	Black Swan	<i>Cygnus atratus</i>				B	No
58	Freckled Duck	<i>Stictonetta naevosa</i>			10	B	No
59	Australian Shelduck	<i>Tadorna tadornoides</i>				B	No
60	Pacific Black Duck	<i>Anas superciliosa</i>				B	No
61	Grey Teal	<i>Anas gibberifrons</i>				B	No
62	Chestnut Teal	<i>Anas castanea</i>				B	No
63	Australian Shoveler	<i>Anas rhynochotis</i>				B	No
64	Pink-eared Duck	<i>Malacorhynchus membranaceus</i>				B	No
65	Hardhead	<i>Aythya australis</i>				B	No
66	Maned Duck	<i>Chenonetta jubata</i>				B	No
67	Blue-billed Duck	<i>Oxyura australis</i>			10	B	No
68	Musk Duck	<i>Biziura lobata</i>			10	B	No
69	Osprey	<i>Pandion haliaetus</i>				B	No

## Appendix 2a

Fauna			Conservation			Major	
Taxon ID	Common Name	Scientific Name	Status	Harvesting	Fire	Group	Exotic
70	Black-shouldered Kite	Elanus notatus				B	No
71	Square-tailed Kite	Lophoictinia isura				B	No
72	Whistling Kite	Haliastur sphenurus				B	No
73	Brown Goshawk	Accipiter fasciatus				B	No
74	Collared Sparrowhawk	Accipiter cirrhocephalus				B	No
75	Wedge-tailed Eagle	Aquila audax				B	No
76	Little Eagle	Hieraaetus morphnoides				B	No
77	Spotted Harrier	Circus assimilis				B	No
78	Marsh Harrier	Circus aeruginosus				B	No
79	Peregrine Falcon	Falco peregrinus	P4			B	No
80	Australian Hobby	Falco longipennis				B	No
81	Brown Falcon	Falco berigora				B	No
82	Australian Kestrel	Falco cenchroides				B	No
83	Malleefowl	Leipoa ocellata	VU	3	3	B	No
84	Stubble Quail	Coturnix novaezelandiae				B	No
85	Brown Quail	Coturnix australis				B	No
86	Painted Button-quail	Turnix varia				B	No
87	Little Button-quail	Turnix velox				B	No
88	Buff-banded Rail	Gallirallus philippensis			11	B	No
89	Lewin's Rail	Rallus pectoralis	EX			B	No
90	Baillon's Crake	Porzana pusilla				B	No
91	Australian (Spotted) Crake	Porzana fluminea				B	No
92	Spotless Crake	Porzana tabuensis			11	B	No
93	Black-tailed Native Hen	Gallinula ventralis				B	No
94	Dusky Moorhen	Gallinula tenebrosa			10	B	No
95	Purple Swamphen	Porphyrio porhyrio			10	B	No
96	Eurasian Coot	Fulica atra				B	No
98	Banded Lapwing	Vanellus tricolor				B	No
99	Red-kneed Dotterel	Erythrogonys cinctus				B	No
100	Red-capped Plover	Charadrius ruficapillus				B	No
101	Black-fronted Plover	Charadrius melanops				B	No
102	Spotted Turtle-Dove *	Streptopelia chinensis				B	Yes
103	Laughing Turtle-Dove *	Streptopelia senegalensis				B	Yes
104	Common Bronzewing	Phaps chalcoptera				B	No

## Appendix 2a

Fauna			Conservation			Major	
Taxon ID	Common Name	Scientific Name	Status	Harvesting	Fire	Group	Exotic
105	Brush Bronzewing	Phaps elegans				B	No
106	Crested Pigeon	Ocyphaps lophotes				B	No
107	Forest Red-tailed Black Cockatoo	Calyptorhynchus magnificus	P3	12		B	No
108	Muir's Long-billed Corella	Cacatua pastinator pastinator	EN	12		B	No
109	Baudin's Cockatoo	Calyptorhynchus baudinii	EN	12		B	No
110	Carnaby's Cockatoo	Calyptorhynchus latirostris	EN	12		B	No
111	Galah	Cacatua roseicapilla				B	No
112	Little Corella	Cacatua sanguinea				B	No
113	Suphur-crested Cockatoo *	Cacatua galerita				B	Yes
114	Purple-crowned Lorikeet	Glossopsitta porphyrocephala				B	No
115	Regent Parrot	Polytelis anthopeplus				B	No
116	Budgerigar	Melopsittacus undulatus				B	No
117	Red-capped Parrot	Purpureicephalus spurius				B	No
118	Western Rosella	Platycercus icterotis				B	No
119	Port Lincoln Ringneck	Barnardius zonarius				B	No
120	Elegant Parrot	Neophema elegans				B	No
121	Rock Parrot	Neophema petrophila				B	No
122	Pallid Cuckoo	Cuculus pallidus				B	No
123	Fan-tailed Cuckoo	Cuculus pyrrhopphanus				B	No
124	Horsefield's Bronze Cuckoo	Chrysococcyx basalis				B	No
125	Shining Bronze Cuckoo	Chrysococcyx lucidus				B	No
126	Southern Boobook	Ninox novaeseelandiae				B	No
127	Barn Owl	Tyto alba				B	No
128	Masked Owl	Tyto novaehollandiae	P3			B	No
129	Barking Owl	Ninox connivens	P2			B	No
130	Tawny Frogmouth	Podargus strigoides				B	No
131	Australian Owlet Nightjar	Aegotheles cristatus				B	No
132	Spotted Nightjar	Caprimulgus guttatus				B	No
133	Fork-tailed Swift	Apus pacificus				B	No
134	Laughing Kookaburra *	Dacelo novaeguineae				B	Yes
135	Sacred Kingfisher	Halcyon sancta				B	No
136	Rainbow Bee-eater	Merops ornatus				B	No
137	White-backed Swallow	Cheramoeca leucosternum				B	No
138	Welcome Swallow	Hirundo neoxena				B	No

## Appendix 2a

Fauna			Conservation			Major	
Taxon ID	Common Name	Scientific Name	Status	Harvesting	Fire	Group	Exotic
139	Tree Martin	<i>Cecropis nigricans</i>				B	No
140	Fairy Martin	<i>Cecropis ariel</i>				B	No
141	Richard's Pipit	<i>Anthus novaeseelandiae</i>				B	No
142	Black-faced Cuckoo Shrike	<i>Coracina novaehollandiae</i>				B	No
143	White-winged Triller	<i>Lalage sueurii</i>				B	No
144	Scarlet Robin	<i>Petroica goodenovii</i>				B	No
145	Red-capped Robin	<i>Petroica goodenovii</i>				B	No
146	Hooded Robin	<i>Melanodryas cucullata</i>				B	No
147	White-breasted Robin	<i>Eopsaltria georgiana</i>				B	No
148	Western Yellow Robin	<i>Eopsaltria griseogularis</i>				B	No
149	Crested Shrike-tit	<i>Falcunculus frontatus</i>	P4			B	No
150	Golden Whistler	<i>Pachycephala pectoralis</i>				B	No
151	Rufous Whistler	<i>Pachycephala rufiventris</i>				B	No
152	Grey Shrike-thrush	<i>Colluricincla harmonica</i>				B	No
153	Crested Bellbird	<i>Oreoica gutturalis</i>				B	No
154	Restless Flycatcher	<i>Myiagra inquieta</i>				B	No
155	Grey Fantail	<i>Rhipidura fuliginosa</i>				B	No
156	Willie Wagtail	<i>Rhipidura leucophrys</i>				B	No
157	White-browed Babbler	<i>Pomatostomus superciliosus</i>	P4			B	No
158	Clamorous Reed-Warbler	<i>Acrocephalus stentoreus</i>			10	B	No
159	Little Grassbird	<i>Megalurus gramineus</i>			10	B	No
160	Rufous Songlark	<i>Cinclorhamphus mathewsi</i>				B	No
161	Brown Songlark	<i>Cinclorhamphus cruralis</i>				B	No
162	Spendid Fairy-wren	<i>Malurus splendens</i>				B	No
163	Blue-breasted Fairy-wren	<i>Malurus pulcherrimus</i>				B	No
164	Red-winged Fairy-wren	<i>Malurus elegans</i>				B	No
165	White-winged Fairy-wren	<i>Malurus leucopterus</i>				B	No
166	Southern Emu-wren	<i>Stipiturus malachurus</i>				B	No
167	White-browed Scrubwren	<i>Sericornis frontalis</i>				B	No
168	Calamanthus or Rufous Fieldwren	<i>Calamanthus campestris montanellus</i>	P4			B	No
169	Weebill	<i>Smicronis brevirostris</i>				B	No
170	Western Gerygoyne	<i>Gerygone fusca</i>				B	No
171	Inland Thornbill	<i>Acanthiza apicalis</i>				B	No
172	Western Thornbill	<i>Acanthiza inornata</i>				B	No



## Appendix 2a

Fauna			Conservation			Major	
Taxon ID	Common Name	Scientific Name	Status	Harvesting	Fire	Group	Exotic
173	Yellow-rumped Thornbill	<i>Acanthiza chrysorrhoa</i>				B	No
174	Varied Sittella	<i>Daphoenositta chrysoptera</i>				B	No
175	Rufous Treecreeper	<i>Climacteris rufa</i>				B	No
176	Red Wattlebird	<i>Anthochaera carunculata</i>				B	No
177	Little Wattlebird	<i>Anthochaera chrysoptera</i>				B	No
178	Yellow-throated Miner	<i>Manorina flavigula</i>				B	No
179	Singing Honeyeater	<i>Lichenostomus virescens</i>				B	No
180	White-eared Honeyeater	<i>Lichenostomus leucotis</i>				B	No
181	Yellow-plumed Honeyeater	<i>Lichenostomus ornatus</i>				B	No
182	Brown-headed Honeyeater	<i>Melithreptus brevirostris</i>				B	No
183	White-naped Honeyeater	<i>Melithreptus lunatus</i>				B	No
184	Brown Honeyeater	<i>Lichmera indistincta</i>				B	No
185	New Holland Honeyeater	<i>Phylidonyris novaehollandiae</i>				B	No
186	White-cheeked Honeyeater	<i>Phylidonyris nigra</i>				B	No
187	Tawny-crowned Honeyeater	<i>Phylidonyris melanops</i>				B	No
188	Western Spinebill	<i>Acanthorhynchus superciliosus</i>				B	No
189	White-fronted Chat	<i>Epthianura albifrons</i>				B	No
190	Mistletoebird	<i>Dicaeum hirundinaceum</i>				B	No
191	Spotted Pardalote	<i>Pardalotus punctatus</i>				B	No
192	Striated Pardalote	<i>Pardalotus striatus</i>				B	No
193	Silvereye	<i>Zosterops lateralis</i>				B	No
194	Red-eared Firetail	<i>Emblema oculata</i>				B	No
195	Australian Magpie-lark	<i>Grallina cyanoleuca</i>				B	No
196	Black-faced Woodswallow	<i>Artamus cinereus</i>				B	No
197	Dusky Woodswallow	<i>Artamus cyanopterus</i>				B	No
198	Grey Butcherbird	<i>Cracticus torquatus</i>				B	No
200	Australian Magpie	<i>Gymnorhina tibicen</i>				B	No
201	Grey Currawong	<i>Strepera versicolor</i>				B	No
202	Australian Raven	<i>Corvus coronoides</i>				B	No
203	Little Crow	<i>Corvus bennetti</i>				B	No
204	Wood Skink	<i>Cryptoblepharus plagiocephalus</i>				R	No
205	South-West Ctenotus	<i>Ctenotus catenifer</i>				R	No
206	Darling Range Ctenotus	<i>Ctenotus delli</i>	P4			R	No
207	Jewelled South West Ctenotus	<i>Ctenotus gemmula</i>	P3			R	No

## Appendix 2a

Fauna			Conservation			Major	
Taxon ID	Common Name	Scientific Name	Status	Harvesting	Fire	Group	Exotic
208	Odd-striped Ctenotus	Ctenotus impar				R	No
209	Red-legged Skink	Ctenotus labillardieri				R	No
210	King's Skink	Egernia kingii				R	No
211	Mourning Skink	Egernia luctuosa				R	No
212	Smiths Skink	Egernia napoleonis				R	No
213	South-western Rock-Skink	Egernia pulchra				R	No
214	South-Western Earless Skink	Hemiergis initialis				R	No
215	Burrowing Skink	Hemiergis peronii				R	No
216	New Holland Skink	Leiopisma trilineatum				R	No
217	Orange-tailed Skink	Lerista distinguenda				R	No
218	Elegant Slider	Lerista elegans				R	No
219	Slippery Skink	Lerista microtis				R	No
220	Greys Skink	Menetia greyii				R	No
221	Westcoast Skink	Morethia lineocellata				R	No
222	Shrubland Skink	Morethia obscura				R	No
223	South-western Mulch Skink	Glaphromorphus australis				R	No
224	Bobtail	Tiliqua rugosa			12	R	No
225	Clawless Gecko	Crenodactylus ocellatus				R	No
226	Wheatbelt Stone Gecko	Diplodactylus granariensis				R	No
227	Speckled Stone Gecko	Diplodactylus polyophthalmus				R	No
228	South-Western Spiny-tailed Gecko	Diplodactylus spinigerus				R	No
229	Reticulated Velvet Gecko	Oedura reticulata				R	No
230	Marbled Gecko	Phyllodactylus marmortus				R	No
231	Barking Gecko	Underwoodisaurus milii				R	No
232	Pretty Worm-Lizard	Aprasia pulchella				R	No
233	Sedgeland's Worm-Lizard	Aprasia repens				R	No
234	Fraser's Scale-Footed Lizard	Delma fraseri				R	No
235	Burton's Snake-Lizard	Lialis burtonis				R	No
236	Common Scaly-Foot	Pygopus lepidopodus				R	No
237	Ornate Dragon	Ctenophorus ornatus				R	No
238	Western Bearded Dragon	Pogona minor				R	No
239	Sand Monitor	Varanus gouldii				R	No
240	Heath Monitor	Varanus rosenbergi			12	R	No
241	Long Necked Turtle	Chelodina oblonga				R	No

## Appendix 2a

Fauna			Conservation			Major	
Taxon ID	Common Name	Scientific Name	Status	Harvesting	Fire	Group	Exotic
242	Blind Snake	Ramphotyphlops australis				R	No
243	Rotund Blind Snake	Ramphotyphlops pinguis				R	No
244	Beaked Blind Snake	Ramphotyphlops waitii				R	No
245	Carpet Python	Morelia spilota	P4		12	R	No
246	Southern Death Adder	Acanthophis antarcticus	P3			R	No
247	Yellow-faced Whipsnake	Demansia psammophis				R	No
248	Crowned Snake	Notechis coronatus				R	No
249	Bardick	Notechis curtus				R	No
250	Short-Nosed Snake	Notechis minor (Elapognathus minor)	P2			R	No
251	Tiger Snake	Notechis scutatus occidentalis				R	No
252	Dugite	Pseudonoaja affins affins				R	No
253	Square-Nosed Snake	Rhinoplocephalus bicolor				R	No
254	Gould's Snake	Rhinoplocephalus gouldii				R	No
255	Black-Backed Snake	Rhinoplocephalus nigriceps				R	No
256	Jan's Banded Snake	Vermicella bertholdi				R	No
257	Black-Naped Snake	Vermicella bimaculata				R	No
258	Southern Shovel-Nosed Snake	Vermicella semifasciata				R	No
259	Quacking Frog	Crinia georgiana				A	No
260	White-bellied Frog	Geocrinia alba	CR	6	6	A	No
261	Lea's Frog	Geocrinia leai				A	No
262	Nornalup Frog	Geocrinia lutea	P4	8	8	A	No
263	Roseate Frog	Geocrinia rosea				A	No
264	Orange-bellied Frog	Geocrinia vitellina	VU	7	7	A	No
265	Western Spotted Frog	Heleioporus albopunctatus				A	No
266	Western Marsh Frog	Heleioporus barycragus				A	No
267	Moaning Frog	Heleioporus eyrei				A	No
268	Plain Frog (Burrowing Frog)	Heleioporus inornatus				A	No
269	Sand Frog	Heleioporus psammophilus				A	No
270	Bullfrog (Banjo Frog)	Limnodynastes dorsalis				A	No
271	Slender Tree Frog	Litoria adelaidensis				A	No
272	Bell Frog (Green & Gold Frog)	Litoria moorei				A	No
273	Nicholls' Toadlet	Metacrinia nichollsi				A	No
274	Turtle Frog	Myobatrachus gouldii				A	No
275	Humming Frog	Neobatrachus pelobatoides				A	No

## Appendix 2a

Fauna			Conservation			Major	
Taxon ID	Common Name	Scientific Name	Status	Harvesting	Fire	Group	Exotic
276	Gunther's Toadlet	<i>Pseudophryne guentheri</i>				A	No
277	Glauert's Froglet	<i>Ranidella glauerti</i>				A	No
278	Squelching Froglet	<i>Ranidella insignifera</i>				A	No
279	Bleating Froglet	<i>Ranidella pseudinsignifera</i>				A	No
280	South Coast Froglet	<i>Ranidella subinsignifera</i>				A	No
281	Sunset Frog	<i>Spicospina flammocaerulea</i>	VU	9	9	A	No
282	Mud Minnow	<i>Galaxella munda</i>	P4			F	No
283	Black-Striped Minnow	<i>Galaxiella nigrostriatas</i>	P3			F	No
284	Western Minnow	<i>Galaxias occidentalis</i>				F	No
285	Salamander Fish	<i>Lepidogalaxias salamandroides</i>				F	No
286	Freshwater Cobbler	<i>Tandanus bostocki</i>				F	No
287	Night Fish	<i>Bostockia porosa</i>				F	No
288	Western Pygmy Perch	<i>Edelia vittata</i>				F	No
289	Balston's Pygmy Perch	<i>Nannatherina balstoni</i>	P4			F	No
290	Pouched Lamprey	<i>Geotria australis</i>	P1			F	No
291	Hardyhead	<i>Atherinosoma</i> spp.				F	No
292	Mullet	<i>Mugil cephalus</i>				F	No
293	Swan River Goby	<i>Pseudogobius olorum</i>				F	No
294	Rainbow Trout *	<i>Salmo gairdneri</i>				F	Yes
295	Brown Trout *	<i>Salmo trutta</i>				F	Yes
296	Carp *	<i>Carassius carassius</i>				F	Yes
297	Mosquito Fish *	<i>Gambusia affinis</i>				F	Yes
298	Redfin Perch *	<i>Perca fluviatilis</i>				F	Yes
299	Noisy Scrub Bird	<i>Atrichornis clamosus</i>	VU		4	B	No
300	Western Bristle Bird	<i>Dasyornis longirostris</i>	VU		5	B	No
301	Bush Stone Curlew	<i>Burhinus grallarius</i>	P4		12	B	No
302	Western Whipbird (Heath)	<i>Psophodes nigrogularis nigrogularis</i>	VU		12	B	No
303	Australian Painted Snipe	<i>Rostratula benegalensis australis</i>	VU		12	B	No
304	Australian Bustard	<i>Ardeotis australis</i>	P4		12	B	No
305	Chestnut Quail-thrush	<i>Cinclosoma castanotum</i>				B	No
306	Fine-faced Gecko	<i>Diplodactylus pulcher</i>				R	No
307	Woma	<i>Aspidites ramsayi</i>				R	No
308	Stimson's python	<i>Liasis stimsoni</i>				R	No
309	Gwardar	<i>Pseudonaja nuchalis</i>				R	No

## Appendix 2b

Fauna Habitat ID	FDIS LAND SYSTEM	FDIS LANDSCAPE UNIT	SCORE	Origin
Western Grey Kangaroo				
1	Darling Plateau	Jarrah Uplands North	3	
2	Darling Plateau	Jarrah Uplands East	3	
3	Darling Plateau	Jarrah Uplands South	3	
4	Darling Plateau	Jarrah Uplands South East	3	
5	Darling Plateau	Karri Uplands	3	
6	Darling Plateau	Wandoo Uplands North	3	
7	Darling Plateau	Powder Bark Uplands	3	
8	Darling Plateau	Scarp	3	
9	Darling Plateau	Depression / Swamps North	0	
10	Darling Plateau	Depressions / Swamps South	3	
11	Darling Plateau	Depressions / Swamps East	3	
12	Darling Plateau	Depressions / Swamps South East	3	
13	Darling Plateau	Jarrah Valleys North	3	
14	Darling Plateau	Jarrah Valleys East	3	
15	Darling Plateau	Jarrah Valleys South	3	
16	Darling Plateau	Jarrah Valleys South East	3	
17	Darling Plateau	Karri Valleys	3	
18	Darling Plateau	Wandoo Valleys North	3	
19	Darling Plateau	Powder Bark Wandoo Valleys	3	
20	Darling Plateau	Granite Outcrops	3	
21	Various Systems	Esturies / Open Water	0	
22	Collie Plain	Uplands	3	
23	Collie Plain	Depressions / Swamps	3	
24	Dandaragan Plateau	Uplands	3	
25	Dandaragan Plateau	Valleys	3	
26	Swan Coastal Plain	Uplands	3	
27	Swan Coastal Plain	Valleys	3	
28	Southern Plains	Jarrah	3	
29	Southern Plains	Karri	3	
30	Southern Plains	Heath / Sedgeland	3	
31	South Coast Dunes	South Coast Dunes	3	
32	Blackwood Plateau	Jarrah Uplands	3	
33	Blackwood Plateau	Karri Uplands	3	
34	Blackwood Plateau	Depressions / Swamps	3	
35	Blackwood Plateau	Valleys	3	
36	Margaret River Plateau	Jarrah Uplands	3	
37	Margaret River Plateau	Karri Uplands	3	
38	Margaret River Plateau	Jarrah Valleys	3	
39	Margaret River Plateau	Karri Valleys	3	
40	Lewin Naturalist Coast	Jarrah	3	
41	Lewin Naturalist Coast	Marri/Karri	3	
42	Lewin Naturalist Coast	Coast Heath	3	
43	Scott Coastal Plain	Uplands	3	
44	Scott Coastal Plain	Valleys / Swamps	3	
45	Redmond	Uplands	3	
46	Redmond	Valleys	3	
47	Unicup	Jarrah Uplands	3	
48	Unicup	Wandoo Uplands	3	
49	Unicup	Jarrah Valleys	3	
50	Unicup	Wandoo Valleys	3	
51	Unicup	Scrubland	3	
53	Darling Plateau	Wandoo Uplands South	3	
54	Darling Plateau	Wandoo Valleys South	3	

## Appendix 2b

Fauna Habitat ID	FDIS LAND SYSTEM	FDIS LANDSCAPE UNIT	SCORE	Origin
Western Brush Wallaby				
1	Darling Plateau	Jarrah Uplands North	3	M
2	Darling Plateau	Jarrah Uplands East	3	M
3	Darling Plateau	Jarrah Uplands South	2	
4	Darling Plateau	Jarrah Uplands South East	3	
5	Darling Plateau	Karri Uplands	0	
6	Darling Plateau	Wandoo Uplands North	3	
7	Darling Plateau	Powder Bark Uplands	3	
8	Darling Plateau	Scarp	3	
9	Darling Plateau	Depression / Swamps North	0	
10	Darling Plateau	Depressions / Swamps South	3	
11	Darling Plateau	Depressions / Swamps East	3	
12	Darling Plateau	Depressions / Swamps South East	3	
13	Darling Plateau	Jarrah Valleys North	3	M
14	Darling Plateau	Jarrah Valleys East	3	
15	Darling Plateau	Jarrah Valleys South	2	
16	Darling Plateau	Jarrah Valleys South East	2	
17	Darling Plateau	Karri Valleys	0	
18	Darling Plateau	Wandoo Valleys North	3	M?
19	Darling Plateau	Powder Bark Wandoo Valleys	3	
20	Darling Plateau	Granite Outcrops	3	
21	Various Systems	Esturies / Open Water	0	
22	Collie Plain	Uplands	3	
23	Collie Plain	Depressions / Swamps	3	
24	Dandaragan Plateau	Uplands	3	
25	Dandaragan Plateau	Valleys	3	
26	Swan Coastal Plain	Uplands	3	
27	Swan Coastal Plain	Valleys	3	
28	Southern Plains	Jarrah	2	
29	Southern Plains	Karri	0	
30	Southern Plains	Heath / Sedgeland	1	
31	South Coast Dunes	South Coast Dunes	0	
32	Blackwood Plateau	Jarrah Uplands	2	
33	Blackwood Plateau	Karri Uplands	0	
34	Blackwood Plateau	Depressions / Swamps	2	
35	Blackwood Plateau	Valleys	2	
36	Margaret River Plateau	Jarrah Uplands	2	M
37	Margaret River Plateau	Karri Uplands	0	
38	Margaret River Plateau	Jarrah Valleys	2	
39	Margaret River Plateau	Karri Valleys	0	
40	Lewin Naturalist Coast	Jarrah	2	
41	Lewin Naturalist Coast	Marri/Karri	0	
42	Lewin Naturalist Coast	Coast Heath	0	
43	Scott Coastal Plain	Uplands	2	
44	Scott Coastal Plain	Valleys / Swamps	1	
45	Redmond	Uplands	3	
46	Redmond	Valleys	2	
47	Unicup	Jarrah Uplands	3	
48	Unicup	Wandoo Uplands	3	
49	Unicup	Jarrah Valleys	3	
50	Unicup	Wandoo Valleys	3	
51	Unicup	Scrubland	3	
53	Darling Plateau	Wandoo Uplands South	3	
54	Darling Plateau	Wandoo Valleys South	3	

## Appendix 2b

Fauna Habitat ID	FDIS LAND SYSTEM	FDIS LANDSCAPE UNIT	SCORE	Origin
Tamar Wallaby				
1	Darling Plateau	Jarrah Uplands North	0	
2	Darling Plateau	Jarrah Uplands East	1	
3	Darling Plateau	Jarrah Uplands South	0	M
4	Darling Plateau	Jarrah Uplands South East	1	
5	Darling Plateau	Karri Uplands	0	
6	Darling Plateau	Wandoo Uplands North	0	
7	Darling Plateau	Powder Bark Uplands	0	
8	Darling Plateau	Scarp	0	
9	Darling Plateau	Depression / Swamps North	0	
10	Darling Plateau	Depressions / Swamps South	0	
11	Darling Plateau	Depressions / Swamps East	1	
12	Darling Plateau	Depressions / Swamps South East	0	
13	Darling Plateau	Jarrah Valleys North	0	
14	Darling Plateau	Jarrah Valleys East	3	
15	Darling Plateau	Jarrah Valleys South	0	
16	Darling Plateau	Jarrah Valleys South East	0	
17	Darling Plateau	Karri Valleys	0	
18	Darling Plateau	Wandoo Valleys North	1	
19	Darling Plateau	Powder Bark Wandoo Valleys	0	
20	Darling Plateau	Granite Outcrops	0	
21	Various Systems	Esturies / Open Water	0	
22	Collie Plain	Uplands	0	
23	Collie Plain	Depressions / Swamps	0	
24	Dandaragan Plateau	Uplands	0	
25	Dandaragan Plateau	Valleys	0	
26	Swan Coastal Plain	Uplands	0	
27	Swan Coastal Plain	Valleys	0	
28	Southern Plains	Jarrah	0	
29	Southern Plains	Karri	0	
30	Southern Plains	Heath / Sedgeland	0	
31	South Coast Dunes	South Coast Dunes	0	
32	Blackwood Plateau	Jarrah Uplands	0	
33	Blackwood Plateau	Karri Uplands	0	
34	Blackwood Plateau	Depressions / Swamps	0	
35	Blackwood Plateau	Valleys	0	
36	Margaret River Plateau	Jarrah Uplands	0	
37	Margaret River Plateau	Karri Uplands	0	
38	Margaret River Plateau	Jarrah Valleys	0	
39	Margaret River Plateau	Karri Valleys	0	
40	Lewin Naturalist Coast	Jarrah	0	
41	Lewin Naturalist Coast	Marri/Karri	0	
42	Lewin Naturalist Coast	Coast Heath	0	
43	Scott Coastal Plain	Uplands	0	
44	Scott Coastal Plain	Valleys / Swamps	0	
45	Redmond	Uplands	0	
46	Redmond	Valleys	0	
47	Unicup	Jarrah Uplands	1	
48	Unicup	Wandoo Uplands	1	
49	Unicup	Jarrah Valleys	3	
50	Unicup	Wandoo Valleys	2	
51	Unicup	Scrubland	1	
53	Darling Plateau	Wandoo Uplands South	0	
54	Darling Plateau	Wandoo Valleys South	1	

## Appendix 2b

Fauna Habitat ID	FDIS LAND SYSTEM	FDIS LANDSCAPE UNIT	SCORE	Origin
Quokka				
1	Darling Plateau	Jarrah Uplands North	0	
2	Darling Plateau	Jarrah Uplands East	0	
3	Darling Plateau	Jarrah Uplands South	0	
4	Darling Plateau	Jarrah Uplands South East	0	
5	Darling Plateau	Karri Uplands	2	
6	Darling Plateau	Wandoo Uplands North	0	
7	Darling Plateau	Powder Bark Uplands	0	
8	Darling Plateau	Scarp	1	
9	Darling Plateau	Depression / Swamps North	0	
10	Darling Plateau	Depressions / Swamps South	0	
11	Darling Plateau	Depressions / Swamps East	0	
12	Darling Plateau	Depressions / Swamps South East	0	
13	Darling Plateau	Jarrah Valleys North	3	
14	Darling Plateau	Jarrah Valleys East	0	
15	Darling Plateau	Jarrah Valleys South	2	
16	Darling Plateau	Jarrah Valleys South East	1	
17	Darling Plateau	Karri Valleys	3	M
18	Darling Plateau	Wandoo Valleys North	0	
19	Darling Plateau	Powder Bark Wandoo Valleys	0	
20	Darling Plateau	Granite Outcrops	0	
21	Various Systems	Esturies / Open Water	0	
22	Collie Plain	Uplands	0	
23	Collie Plain	Depressions / Swamps	0	
24	Dandaragan Plateau	Uplands	0	
25	Dandaragan Plateau	Valleys	0	
26	Swan Coastal Plain	Uplands	0	
27	Swan Coastal Plain	Valleys	0	
28	Southern Plains	Jarrah	0	
29	Southern Plains	Karri	2	M
30	Southern Plains	Heath / Sedgeland	1	
31	South Coast Dunes	South Coast Dunes	1	
32	Blackwood Plateau	Jarrah Uplands	0	
33	Blackwood Plateau	Karri Uplands	0	
34	Blackwood Plateau	Depressions / Swamps	2	
35	Blackwood Plateau	Valleys	2	
36	Margaret River Plateau	Jarrah Uplands	0	
37	Margaret River Plateau	Karri Uplands	0	
38	Margaret River Plateau	Jarrah Valleys	2	
39	Margaret River Plateau	Karri Valleys	2	
40	Lewin Naturalist Coast	Jarrah	0	
41	Lewin Naturalist Coast	Marri/Karri	0	
42	Lewin Naturalist Coast	Coast Heath	0	
43	Scott Coastal Plain	Uplands	0	
44	Scott Coastal Plain	Valleys / Swamps	1	
45	Redmond	Uplands	0	
46	Redmond	Valleys	3	
47	Unicup	Jarrah Uplands	0	
48	Unicup	Wandoo Uplands	0	
49	Unicup	Jarrah Valleys	0	
50	Unicup	Wandoo Valleys	0	
51	Unicup	Scrubland	0	
53	Darling Plateau	Wandoo Uplands South	0	
54	Darling Plateau	Wandoo Valleys South	0	



## Appendix 2b

Fauna Habitat ID	FDIS LAND SYSTEM	FDIS LANDSCAPE UNIT	SCORE	Origin
Woylie (Brush-tailed Bettong)				
1	Darling Plateau	Jarrah Uplands North	1	M
2	Darling Plateau	Jarrah Uplands East	2	
3	Darling Plateau	Jarrah Uplands South	2	
4	Darling Plateau	Jarrah Uplands South East	2	
5	Darling Plateau	Karri Uplands	0	
6	Darling Plateau	Wandoo Uplands North	3	
7	Darling Plateau	Powder Bark Uplands	3	
8	Darling Plateau	Scarp	1	
9	Darling Plateau	Depression / Swamps North	0	
10	Darling Plateau	Depressions / Swamps South	0	
11	Darling Plateau	Depressions / Swamps East	0	
12	Darling Plateau	Depressions / Swamps South East	0	
13	Darling Plateau	Jarrah Valleys North	0	
14	Darling Plateau	Jarrah Valleys East	3	
15	Darling Plateau	Jarrah Valleys South	0	
16	Darling Plateau	Jarrah Valleys South East	0	
17	Darling Plateau	Karri Valleys	0	
18	Darling Plateau	Wandoo Valleys North	3	
19	Darling Plateau	Powder Bark Wandoo Valleys	3	
20	Darling Plateau	Granite Outcrops	0	
21	Various Systems	Esturies / Open Water	0	
22	Collie Plain	Uplands	1	
23	Collie Plain	Depressions / Swamps	0	
24	Dandaragan Plateau	Uplands	0	
25	Dandaragan Plateau	Valleys	0	
26	Swan Coastal Plain	Uplands	0	
27	Swan Coastal Plain	Valleys	0	
28	Southern Plains	Jarrah	0	
29	Southern Plains	Karri	0	
30	Southern Plains	Heath / Sedgeland	0	
31	South Coast Dunes	South Coast Dunes	0	
32	Blackwood Plateau	Jarrah Uplands	0	
33	Blackwood Plateau	Karri Uplands	0	
34	Blackwood Plateau	Depressions / Swamps	0	
35	Blackwood Plateau	Valleys	0	
36	Margaret River Plateau	Jarrah Uplands	0	
37	Margaret River Plateau	Karri Uplands	0	
38	Margaret River Plateau	Jarrah Valleys	0	
39	Margaret River Plateau	Karri Valleys	0	
40	Lewin Naturalist Coast	Jarrah	0	
41	Lewin Naturalist Coast	Marri/Karri	0	
42	Lewin Naturalist Coast	Coast Heath	0	
43	Scott Coastal Plain	Uplands	0	
44	Scott Coastal Plain	Valleys / Swamps	0	
45	Redmond	Uplands	0	
46	Redmond	Valleys	0	
47	Unicup	Jarrah Uplands	3	
48	Unicup	Wandoo Uplands	3	
49	Unicup	Jarrah Valleys	3	
50	Unicup	Wandoo Valleys	3	
51	Unicup	Scrubland	3	
53	Darling Plateau	Wandoo Uplands South	3	
54	Darling Plateau	Wandoo Valleys South	3	

## Appendix 2b

Fauna Habitat ID	FDIS LAND SYSTEM	FDIS LANDSCAPE UNIT	SCORE	Origin
Common Brushtail Possum				
1	Darling Plateau	Jarrah Uplands North	2	M
2	Darling Plateau	Jarrah Uplands East	3	
3	Darling Plateau	Jarrah Uplands South	2	
4	Darling Plateau	Jarrah Uplands South East	2	
5	Darling Plateau	Karri Uplands	2	
6	Darling Plateau	Wandoo Uplands North	3	
7	Darling Plateau	Powder Bark Uplands	3	
8	Darling Plateau	Scarp	2	
9	Darling Plateau	Depression / Swamps North	0	
10	Darling Plateau	Depressions / Swamps South	1	
11	Darling Plateau	Depressions / Swamps East	1	
12	Darling Plateau	Depressions / Swamps South East	1	
13	Darling Plateau	Jarrah Valleys North	2	
14	Darling Plateau	Jarrah Valleys East	2	
15	Darling Plateau	Jarrah Valleys South	2	M
16	Darling Plateau	Jarrah Valleys South East	1	
17	Darling Plateau	Karri Valleys	2	
18	Darling Plateau	Wandoo Valleys North	3	
19	Darling Plateau	Powder Bark Wandoo Valleys	3	
20	Darling Plateau	Granite Outcrops	2	
21	Various Systems	Esturies / Open Water	0	
22	Collie Plain	Uplands	1	
23	Collie Plain	Depressions / Swamps	0	
24	Dandaragan Plateau	Uplands	1	
25	Dandaragan Plateau	Valleys	1	
26	Swan Coastal Plain	Uplands	2	
27	Swan Coastal Plain	Valleys	1	
28	Southern Plains	Jarrah	1	
29	Southern Plains	Karri	1	
30	Southern Plains	Heath / Sedgeland	0	
31	South Coast Dunes	South Coast Dunes	0	
32	Blackwood Plateau	Jarrah Uplands	1	
33	Blackwood Plateau	Karri Uplands	0	
34	Blackwood Plateau	Depressions / Swamps	1	
35	Blackwood Plateau	Valleys	1	
36	Margaret River Plateau	Jarrah Uplands	1	
37	Margaret River Plateau	Karri Uplands	0	
38	Margaret River Plateau	Jarrah Valleys	2	
39	Margaret River Plateau	Karri Valleys	0	
40	Lewin Naturalist Coast	Jarrah	2	
41	Lewin Naturalist Coast	Marri/Karri	0	
42	Lewin Naturalist Coast	Coast Heath	1	
43	Scott Coastal Plain	Uplands	0	
44	Scott Coastal Plain	Valleys / Swamps	0	
45	Redmond	Uplands	2	
46	Redmond	Valleys	2	
47	Unicup	Jarrah Uplands	3	
48	Unicup	Wandoo Uplands	3	
49	Unicup	Jarrah Valleys	3	
50	Unicup	Wandoo Valleys	3	
51	Unicup	Scrubland	3	
53	Darling Plateau	Wandoo Uplands South	3	
54	Darling Plateau	Wandoo Valleys South	3	

## Appendix 2b

Fauna Habitat ID	FDIS LAND SYSTEM	FDIS LANDSCAPE UNIT	SCORE	Origin
Western Ringtail Possum				
1	Darling Plateau	Jarrah Uplands North	1	M
2	Darling Plateau	Jarrah Uplands East	2	
3	Darling Plateau	Jarrah Uplands South	0	
4	Darling Plateau	Jarrah Uplands South East	1	
5	Darling Plateau	Karri Uplands	0	
6	Darling Plateau	Wandoo Uplands North	1	M?
7	Darling Plateau	Powder Bark Uplands	0	
8	Darling Plateau	Scarp	0	
9	Darling Plateau	Depression / Swamps North	0	
10	Darling Plateau	Depressions / Swamps South	1	
11	Darling Plateau	Depressions / Swamps East	0	M
12	Darling Plateau	Depressions / Swamps South East	0	
13	Darling Plateau	Jarrah Valleys North	1	M
14	Darling Plateau	Jarrah Valleys East	0	M
15	Darling Plateau	Jarrah Valleys South	2	
16	Darling Plateau	Jarrah Valleys South East	1	
17	Darling Plateau	Karri Valleys	2	
18	Darling Plateau	Wandoo Valleys North	1	M?
19	Darling Plateau	Powder Bark Wandoo Valleys	0	
20	Darling Plateau	Granite Outcrops	0	
21	Various Systems	Esturies / Open Water	0	
22	Collie Plain	Uplands	0	
23	Collie Plain	Depressions / Swamps	0	
24	Dandaragan Plateau	Uplands	0	
25	Dandaragan Plateau	Valleys	0	
26	Swan Coastal Plain	Uplands	2	
27	Swan Coastal Plain	Valleys	2	M
28	Southern Plains	Jarrah	0	
29	Southern Plains	Karri	0	
30	Southern Plains	Heath / Sedgeland	0	
31	South Coast Dunes	South Coast Dunes	1	M
32	Blackwood Plateau	Jarrah Uplands	0	
33	Blackwood Plateau	Karri Uplands	0	
34	Blackwood Plateau	Depressions / Swamps	0	
35	Blackwood Plateau	Valleys	1	M
36	Margaret River Plateau	Jarrah Uplands	0	
37	Margaret River Plateau	Karri Uplands	0	
38	Margaret River Plateau	Jarrah Valleys	2	
39	Margaret River Plateau	Karri Valleys	2	
40	Lewin Naturalist Coast	Jarrah	0	
41	Lewin Naturalist Coast	Marri/Karri	2	M
42	Lewin Naturalist Coast	Coast Heath	2	M
43	Scott Coastal Plain	Uplands	0	
44	Scott Coastal Plain	Valleys / Swamps	0	
45	Redmond	Uplands	1	
46	Redmond	Valleys	1	
47	Unicup	Jarrah Uplands	2	
48	Unicup	Wandoo Uplands	2	
49	Unicup	Jarrah Valleys	3	
50	Unicup	Wandoo Valleys	3	
51	Unicup	Scrubland	3	
53	Darling Plateau	Wandoo Uplands South	1	
54	Darling Plateau	Wandoo Valleys South	1	

## Appendix 2b

Fauna Habitat ID	FDIS LAND SYSTEM	FDIS LANDSCAPE UNIT	SCORE	Origin
Western Pygmy Possum				
1	Darling Plateau	Jarrah Uplands North	2	M
2	Darling Plateau	Jarrah Uplands East	2	M
3	Darling Plateau	Jarrah Uplands South	2	
4	Darling Plateau	Jarrah Uplands South East	2	
5	Darling Plateau	Karri Uplands	3	
6	Darling Plateau	Wandoo Uplands North	1	
7	Darling Plateau	Powder Bark Uplands	1	
8	Darling Plateau	Scarp	2	
9	Darling Plateau	Depression / Swamps North	0	
10	Darling Plateau	Depressions / Swamps South	2	
11	Darling Plateau	Depressions / Swamps East	2	
12	Darling Plateau	Depressions / Swamps South East	1	
13	Darling Plateau	Jarrah Valleys North	2	M
14	Darling Plateau	Jarrah Valleys East	2	
15	Darling Plateau	Jarrah Valleys South	1	
16	Darling Plateau	Jarrah Valleys South East	2	
17	Darling Plateau	Karri Valleys	3	
18	Darling Plateau	Wandoo Valleys North	1	M?
19	Darling Plateau	Powder Bark Wandoo Valleys	0	
20	Darling Plateau	Granite Outcrops	2	M
21	Various Systems	Esturies / Open Water	0	
22	Collie Plain	Uplands	3	
23	Collie Plain	Depressions / Swamps	2	
24	Dandaragan Plateau	Uplands	1	
25	Dandaragan Plateau	Valleys	1	
26	Swan Coastal Plain	Uplands	2	
27	Swan Coastal Plain	Valleys	2	
28	Southern Plains	Jarrah	3	
29	Southern Plains	Karri	3	
30	Southern Plains	Heath / Sedgeland	3	
31	South Coast Dunes	South Coast Dunes	3	
32	Blackwood Plateau	Jarrah Uplands	1	
33	Blackwood Plateau	Karri Uplands	1	
34	Blackwood Plateau	Depressions / Swamps	2	
35	Blackwood Plateau	Valleys	2	
36	Margaret River Plateau	Jarrah Uplands	1	
37	Margaret River Plateau	Karri Uplands	2	
38	Margaret River Plateau	Jarrah Valleys	1	
39	Margaret River Plateau	Karri Valleys	2	
40	Lewin Naturalist Coast	Jarrah	2	
41	Lewin Naturalist Coast	Marri/Karri	2	
42	Lewin Naturalist Coast	Coast Heath	2	
43	Scott Coastal Plain	Uplands	2	
44	Scott Coastal Plain	Valleys / Swamps	2	
45	Redmond	Uplands	1	
46	Redmond	Valleys	2	
47	Unicup	Jarrah Uplands	0	
48	Unicup	Wandoo Uplands	0	
49	Unicup	Jarrah Valleys	1	
50	Unicup	Wandoo Valleys	0	
51	Unicup	Scrubland	1	
53	Darling Plateau	Wandoo Uplands South	1	
54	Darling Plateau	Wandoo Valleys South	1	

## Appendix 2b

Fauna Habitat ID	FDIS LAND SYSTEM	FDIS LANDSCAPE UNIT	SCORE	Origin
Honey Possum				
1	Darling Plateau	Jarrah Uplands North	0	
2	Darling Plateau	Jarrah Uplands East	1	
3	Darling Plateau	Jarrah Uplands South	0	
4	Darling Plateau	Jarrah Uplands South East	1	
5	Darling Plateau	Karri Uplands	0	
6	Darling Plateau	Wandoo Uplands North	0	
7	Darling Plateau	Powder Bark Uplands	0	
8	Darling Plateau	Scarp	0	
9	Darling Plateau	Depression / Swamps North	0	
10	Darling Plateau	Depressions / Swamps South	1	
11	Darling Plateau	Depressions / Swamps East	0	M
12	Darling Plateau	Depressions / Swamps South East	3	
13	Darling Plateau	Jarrah Valleys North	0	
14	Darling Plateau	Jarrah Valleys East	0	
15	Darling Plateau	Jarrah Valleys South	0	
16	Darling Plateau	Jarrah Valleys South East	2	
17	Darling Plateau	Karri Valleys	0	
18	Darling Plateau	Wandoo Valleys North	0	M?
19	Darling Plateau	Powder Bark Wandoo Valleys	0	
20	Darling Plateau	Granite Outcrops	2	M
21	Various Systems	Esturies / Open Water	0	
22	Collie Plain	Uplands	3	
23	Collie Plain	Depressions / Swamps	1	
24	Dandaragan Plateau	Uplands	0	
25	Dandaragan Plateau	Valleys	0	
26	Swan Coastal Plain	Uplands	1	
27	Swan Coastal Plain	Valleys	3	
28	Southern Plains	Jarrah	3	
29	Southern Plains	Karri	0	
30	Southern Plains	Heath / Sedgeland	3	
31	South Coast Dunes	South Coast Dunes	3	M
32	Blackwood Plateau	Jarrah Uplands	0	
33	Blackwood Plateau	Karri Uplands	0	
34	Blackwood Plateau	Depressions / Swamps	3	
35	Blackwood Plateau	Valleys	0	
36	Margaret River Plateau	Jarrah Uplands	0	
37	Margaret River Plateau	Karri Uplands	0	
38	Margaret River Plateau	Jarrah Valleys	0	
39	Margaret River Plateau	Karri Valleys	0	
40	Lewin Naturalist Coast	Jarrah	0	
41	Lewin Naturalist Coast	Marri/Karri	0	
42	Lewin Naturalist Coast	Coast Heath	2	
43	Scott Coastal Plain	Uplands	1	
44	Scott Coastal Plain	Valleys / Swamps	3	
45	Redmond	Uplands	1	
46	Redmond	Valleys	3	M
47	Unicup	Jarrah Uplands	1	
48	Unicup	Wandoo Uplands	0	
49	Unicup	Jarrah Valleys	0	
50	Unicup	Wandoo Valleys	0	
51	Unicup	Scrubland	0	
53	Darling Plateau	Wandoo Uplands South	0	
54	Darling Plateau	Wandoo Valleys South	1	

## Appendix 2b

Fauna Habitat ID	FDIS LAND SYSTEM	FDIS LANDSCAPE UNIT	SCORE	Origin
Quenda (Southern Brown Bandicoot)				
1	Darling Plateau	Jarrah Uplands North	2	M
2	Darling Plateau	Jarrah Uplands East	2	
3	Darling Plateau	Jarrah Uplands South	2	
4	Darling Plateau	Jarrah Uplands South East	2	
5	Darling Plateau	Karri Uplands	2	M
6	Darling Plateau	Wandoo Uplands North	2	M?
7	Darling Plateau	Powder Bark Uplands	2	M
8	Darling Plateau	Scarp	2	M
9	Darling Plateau	Depression / Swamps North	0	
10	Darling Plateau	Depressions / Swamps South	3	
11	Darling Plateau	Depressions / Swamps East	3	M
12	Darling Plateau	Depressions / Swamps South East	3	
13	Darling Plateau	Jarrah Valleys North	3	M
14	Darling Plateau	Jarrah Valleys East	2	
15	Darling Plateau	Jarrah Valleys South	3	
16	Darling Plateau	Jarrah Valleys South East	2	
17	Darling Plateau	Karri Valleys	3	M
18	Darling Plateau	Wandoo Valleys North	2	M?
19	Darling Plateau	Powder Bark Wandoo Valleys	0	
20	Darling Plateau	Granite Outcrops	2	
21	Various Systems	Esturies / Open Water	0	
22	Collie Plain	Uplands	2	
23	Collie Plain	Depressions / Swamps	2	
24	Dandaragan Plateau	Uplands	2	
25	Dandaragan Plateau	Valleys	2	
26	Swan Coastal Plain	Uplands	3	M
27	Swan Coastal Plain	Valleys	3	M
28	Southern Plains	Jarrah	3	
29	Southern Plains	Karri	2	
30	Southern Plains	Heath / Sedgeland	3	
31	South Coast Dunes	South Coast Dunes	3	
32	Blackwood Plateau	Jarrah Uplands	2	
33	Blackwood Plateau	Karri Uplands	2	
34	Blackwood Plateau	Depressions / Swamps	3	
35	Blackwood Plateau	Valleys	3	
36	Margaret River Plateau	Jarrah Uplands	2	
37	Margaret River Plateau	Karri Uplands	2	
38	Margaret River Plateau	Jarrah Valleys	3	
39	Margaret River Plateau	Karri Valleys	2	
40	Lewin Naturalist Coast	Jarrah	2	
41	Lewin Naturalist Coast	Marri/Karri	2	
42	Lewin Naturalist Coast	Coast Heath	3	M
43	Scott Coastal Plain	Uplands	3	
44	Scott Coastal Plain	Valleys / Swamps	3	
45	Redmond	Uplands	2	
46	Redmond	Valleys	3	
47	Unicup	Jarrah Uplands	3	
48	Unicup	Wandoo Uplands	3	
49	Unicup	Jarrah Valleys	3	
50	Unicup	Wandoo Valleys	3	
51	Unicup	Scrubland	3	
53	Darling Plateau	Wandoo Uplands South	2	
54	Darling Plateau	Wandoo Valleys South	2	

## Appendix 2b

Fauna Habitat ID	FDIS LAND SYSTEM	FDIS LANDSCAPE UNIT	SCORE	Origin
Chuditch (Western Quoll)				
1	Darling Plateau	Jarrah Uplands North	3	M
2	Darling Plateau	Jarrah Uplands East	3	M
3	Darling Plateau	Jarrah Uplands South	3	M
4	Darling Plateau	Jarrah Uplands South East	3	M
5	Darling Plateau	Karri Uplands	1	M
6	Darling Plateau	Wandoo Uplands North	3	M?
7	Darling Plateau	Powder Bark Uplands	3	M
8	Darling Plateau	Scarp	3	
9	Darling Plateau	Depression / Swamps North	0	
10	Darling Plateau	Depressions / Swamps South	3	M
11	Darling Plateau	Depressions / Swamps East	2	M
12	Darling Plateau	Depressions / Swamps South East	0	1
13	Darling Plateau	Jarrah Valleys North	3	M
14	Darling Plateau	Jarrah Valleys East	3	M
15	Darling Plateau	Jarrah Valleys South	2	M
16	Darling Plateau	Jarrah Valleys South East	2	
17	Darling Plateau	Karri Valleys	0	M
18	Darling Plateau	Wandoo Valleys North	3	M?
19	Darling Plateau	Powder Bark Wandoo Valleys	3	
20	Darling Plateau	Granite Outcrops	2	M
21	Various Systems	Esturies / Open Water	0	
22	Collie Plain	Uplands	3	M
23	Collie Plain	Depressions / Swamps	1	
24	Dandaragan Plateau	Uplands	3	
25	Dandaragan Plateau	Valleys	3	
26	Swan Coastal Plain	Uplands	1	M
27	Swan Coastal Plain	Valleys	1	M
28	Southern Plains	Jarrah	1	
29	Southern Plains	Karri	1	
30	Southern Plains	Heath / Sedgeland	0	
31	South Coast Dunes	South Coast Dunes	1	
32	Blackwood Plateau	Jarrah Uplands	2	M
33	Blackwood Plateau	Karri Uplands	1	
34	Blackwood Plateau	Depressions / Swamps	2	M
35	Blackwood Plateau	Valleys	2	M
36	Margaret River Plateau	Jarrah Uplands	2	M
37	Margaret River Plateau	Karri Uplands	1	
38	Margaret River Plateau	Jarrah Valleys	2	
39	Margaret River Plateau	Karri Valleys	1	M
40	Lewin Naturalist Coast	Jarrah	2	
41	Lewin Naturalist Coast	Marri/Karri	1	M
42	Lewin Naturalist Coast	Coast Heath	0	
43	Scott Coastal Plain	Uplands	2	
44	Scott Coastal Plain	Valleys / Swamps	0	
45	Redmond	Uplands	3	M
46	Redmond	Valleys	2	
47	Unicup	Jarrah Uplands	3	M
48	Unicup	Wandoo Uplands	3	
49	Unicup	Jarrah Valleys	3	
50	Unicup	Wandoo Valleys	3	
51	Unicup	Scrubland	3	
53	Darling Plateau	Wandoo Uplands South	3	
54	Darling Plateau	Wandoo Valleys South	3	

## Appendix 2b

Fauna Habitat ID	FDIS LAND SYSTEM	FDIS LANDSCAPE UNIT	SCORE	Origin
Red-tailed Phascogale				
1	Darling Plateau	Jarrah Uplands North	0	
2	Darling Plateau	Jarrah Uplands East	1	
3	Darling Plateau	Jarrah Uplands South	0	
4	Darling Plateau	Jarrah Uplands South East	1	
5	Darling Plateau	Karri Uplands	0	
6	Darling Plateau	Wandoo Uplands North	1	
7	Darling Plateau	Powder Bark Uplands	2	
8	Darling Plateau	Scarp	0	
9	Darling Plateau	Depression / Swamps North	0	
10	Darling Plateau	Depressions / Swamps South	0	
11	Darling Plateau	Depressions / Swamps East	0	
12	Darling Plateau	Depressions / Swamps South East	0	
13	Darling Plateau	Jarrah Valleys North	0	
14	Darling Plateau	Jarrah Valleys East	1	
15	Darling Plateau	Jarrah Valleys South	0	
16	Darling Plateau	Jarrah Valleys South East	0	
17	Darling Plateau	Karri Valleys	0	
18	Darling Plateau	Wandoo Valleys North	1	
19	Darling Plateau	Powder Bark Wandoo Valleys	2	
20	Darling Plateau	Granite Outcrops	0	
21	Various Systems	Esturies / Open Water	0	
22	Collie Plain	Uplands	0	
23	Collie Plain	Depressions / Swamps	0	
24	Dandaragan Plateau	Uplands	1	
25	Dandaragan Plateau	Valleys	1	
26	Swan Coastal Plain	Uplands	0	
27	Swan Coastal Plain	Valleys	0	
28	Southern Plains	Jarrah	0	
29	Southern Plains	Karri	0	
30	Southern Plains	Heath / Sedgeland	0	
31	South Coast Dunes	South Coast Dunes	0	
32	Blackwood Plateau	Jarrah Uplands	0	
33	Blackwood Plateau	Karri Uplands	0	
34	Blackwood Plateau	Depressions / Swamps	0	
35	Blackwood Plateau	Valleys	0	
36	Margaret River Plateau	Jarrah Uplands	0	
37	Margaret River Plateau	Karri Uplands	0	
38	Margaret River Plateau	Jarrah Valleys	0	
39	Margaret River Plateau	Karri Valleys	0	
40	Lewin Naturalist Coast	Jarrah	0	
41	Lewin Naturalist Coast	Marri/Karri	0	
42	Lewin Naturalist Coast	Coast Heath	0	
43	Scott Coastal Plain	Uplands	0	
44	Scott Coastal Plain	Valleys / Swamps	0	
45	Redmond	Uplands	0	
46	Redmond	Valleys	0	
47	Unicup	Jarrah Uplands	0	
48	Unicup	Wandoo Uplands	0	
49	Unicup	Jarrah Valleys	0	
50	Unicup	Wandoo Valleys	0	
51	Unicup	Scrubland	0	
53	Darling Plateau	Wandoo Uplands South	0	
54	Darling Plateau	Wandoo Valleys South	0	



## Appendix 2b

Fauna Habitat ID	FDIS LAND SYSTEM	FDIS LANDSCAPE UNIT	SCORE	Origin
Brush-tailed Phascogale				
1	Darling Plateau	Jarrah Uplands North	3	M
2	Darling Plateau	Jarrah Uplands East	3	
3	Darling Plateau	Jarrah Uplands South	3	
4	Darling Plateau	Jarrah Uplands South East	3	
5	Darling Plateau	Karri Uplands	2	
6	Darling Plateau	Wandoo Uplands North	3	
7	Darling Plateau	Powder Bark Uplands	3	
8	Darling Plateau	Scarp	3	M
9	Darling Plateau	Depression / Swamps North	0	
10	Darling Plateau	Depressions / Swamps South	3	
11	Darling Plateau	Depressions / Swamps East	2	
12	Darling Plateau	Depressions / Swamps South East	2	
13	Darling Plateau	Jarrah Valleys North	3	
14	Darling Plateau	Jarrah Valleys East	3	
15	Darling Plateau	Jarrah Valleys South	3	
16	Darling Plateau	Jarrah Valleys South East	3	
17	Darling Plateau	Karri Valleys	2	
18	Darling Plateau	Wandoo Valleys North	3	
19	Darling Plateau	Powder Bark Wandoo Valleys	3	
20	Darling Plateau	Granite Outcrops	2	
21	Various Systems	Esturies / Open Water	0	
22	Collie Plain	Uplands	3	
23	Collie Plain	Depressions / Swamps	2	
24	Dandaragan Plateau	Uplands	3	
25	Dandaragan Plateau	Valleys	3	
26	Swan Coastal Plain	Uplands	2	
27	Swan Coastal Plain	Valleys	2	
28	Southern Plains	Jarrah	3	
29	Southern Plains	Karri	2	
30	Southern Plains	Heath / Sedgeland	0	
31	South Coast Dunes	South Coast Dunes	1	
32	Blackwood Plateau	Jarrah Uplands	3	
33	Blackwood Plateau	Karri Uplands	2	
34	Blackwood Plateau	Depressions / Swamps	3	
35	Blackwood Plateau	Valleys	3	
36	Margaret River Plateau	Jarrah Uplands	3	
37	Margaret River Plateau	Karri Uplands	2	
38	Margaret River Plateau	Jarrah Valleys	3	
39	Margaret River Plateau	Karri Valleys	2	
40	Lewin Naturalist Coast	Jarrah	3	
41	Lewin Naturalist Coast	Marri/Karri	2	
42	Lewin Naturalist Coast	Coast Heath	0	
43	Scott Coastal Plain	Uplands	3	
44	Scott Coastal Plain	Valleys / Swamps	2	
45	Redmond	Uplands	3	
46	Redmond	Valleys	3	
47	Unicup	Jarrah Uplands	3	
48	Unicup	Wandoo Uplands	3	
49	Unicup	Jarrah Valleys	3	
50	Unicup	Wandoo Valleys	3	
51	Unicup	Scrubland	3	
53	Darling Plateau	Wandoo Uplands South	3	
54	Darling Plateau	Wandoo Valleys South	3	

## Appendix 2b

Fauna Habitat ID	FDIS LAND SYSTEM	FDIS LANDSCAPE UNIT	SCORE	Origin
Mardo (Yellow-footed Antechinus)				
1	Darling Plateau	Jarrah Uplands North	3	M
2	Darling Plateau	Jarrah Uplands East	2	
3	Darling Plateau	Jarrah Uplands South	3	
4	Darling Plateau	Jarrah Uplands South East	2	
5	Darling Plateau	Karri Uplands	3	
6	Darling Plateau	Wandoo Uplands North	2	
7	Darling Plateau	Powder Bark Uplands	2	
8	Darling Plateau	Scarp	3	
9	Darling Plateau	Depression / Swamps North	0	
10	Darling Plateau	Depressions / Swamps South	3	
11	Darling Plateau	Depressions / Swamps East	3	M
12	Darling Plateau	Depressions / Swamps South East	2	
13	Darling Plateau	Jarrah Valleys North	3	M
14	Darling Plateau	Jarrah Valleys East	2	
15	Darling Plateau	Jarrah Valleys South	3	
16	Darling Plateau	Jarrah Valleys South East	2	
17	Darling Plateau	Karri Valleys	3	
18	Darling Plateau	Wandoo Valleys North	2	
19	Darling Plateau	Powder Bark Wandoo Valleys	2	
20	Darling Plateau	Granite Outcrops	3	
21	Various Systems	Esturies / Open Water	0	
22	Collie Plain	Uplands	2	
23	Collie Plain	Depressions / Swamps	3	
24	Dandaragan Plateau	Uplands	2	
25	Dandaragan Plateau	Valleys	2	
26	Swan Coastal Plain	Uplands	2	
27	Swan Coastal Plain	Valleys	2	
28	Southern Plains	Jarrah	2	
29	Southern Plains	Karri	3	
30	Southern Plains	Heath / Sedgeland	2	
31	South Coast Dunes	South Coast Dunes	2	
32	Blackwood Plateau	Jarrah Uplands	3	
33	Blackwood Plateau	Karri Uplands	3	
34	Blackwood Plateau	Depressions / Swamps	3	
35	Blackwood Plateau	Valleys	3	
36	Margaret River Plateau	Jarrah Uplands	3	
37	Margaret River Plateau	Karri Uplands	3	
38	Margaret River Plateau	Jarrah Valleys	3	
39	Margaret River Plateau	Karri Valleys	3	
40	Lewin Naturalist Coast	Jarrah	3	
41	Lewin Naturalist Coast	Marri/Karri	3	
42	Lewin Naturalist Coast	Coast Heath	2	
43	Scott Coastal Plain	Uplands	2	
44	Scott Coastal Plain	Valleys / Swamps	1	
45	Redmond	Uplands	2	
46	Redmond	Valleys	2	
47	Unicup	Jarrah Uplands	2	
48	Unicup	Wandoo Uplands	2	
49	Unicup	Jarrah Valleys	2	
50	Unicup	Wandoo Valleys	2	
51	Unicup	Scrubland	2	
53	Darling Plateau	Wandoo Uplands South	2	
54	Darling Plateau	Wandoo Valleys South	2	

## Appendix 2b

Fauna Habitat ID	FDIS LAND SYSTEM	FDIS LANDSCAPE UNIT	SCORE	Origin
Gilberts Dunnart				
1	Darling Plateau	Jarrah Uplands North	3	M
2	Darling Plateau	Jarrah Uplands East	3	
3	Darling Plateau	Jarrah Uplands South	3	
4	Darling Plateau	Jarrah Uplands South East	2	
5	Darling Plateau	Karri Uplands	0	
6	Darling Plateau	Wandoo Uplands North	3	
7	Darling Plateau	Powder Bark Uplands	3	
8	Darling Plateau	Scarp	3	
9	Darling Plateau	Depression / Swamps North	0	
10	Darling Plateau	Depressions / Swamps South	3	
11	Darling Plateau	Depressions / Swamps East	3	M
12	Darling Plateau	Depressions / Swamps South East	0	
13	Darling Plateau	Jarrah Valleys North	3	
14	Darling Plateau	Jarrah Valleys East	3	
15	Darling Plateau	Jarrah Valleys South	3	
16	Darling Plateau	Jarrah Valleys South East	1	
17	Darling Plateau	Karri Valleys	0	
18	Darling Plateau	Wandoo Valleys North	3	
19	Darling Plateau	Powder Bark Wandoo Valleys	3	
20	Darling Plateau	Granite Outcrops	3	
21	Various Systems	Esturies / Open Water	0	
22	Collie Plain	Uplands	3	
23	Collie Plain	Depressions / Swamps	2	
24	Dandaragan Plateau	Uplands	2	
25	Dandaragan Plateau	Valleys	2	
26	Swan Coastal Plain	Uplands	0	
27	Swan Coastal Plain	Valleys	0	
28	Southern Plains	Jarrah	0	
29	Southern Plains	Karri	0	
30	Southern Plains	Heath / Sedgeland	0	
31	South Coast Dunes	South Coast Dunes	0	
32	Blackwood Plateau	Jarrah Uplands	0	
33	Blackwood Plateau	Karri Uplands	0	
34	Blackwood Plateau	Depressions / Swamps	0	
35	Blackwood Plateau	Valleys	0	
36	Margaret River Plateau	Jarrah Uplands	0	
37	Margaret River Plateau	Karri Uplands	0	
38	Margaret River Plateau	Jarrah Valleys	0	
39	Margaret River Plateau	Karri Valleys	0	
40	Lewin Naturalist Coast	Jarrah	0	
41	Lewin Naturalist Coast	Marri/Karri	0	M
42	Lewin Naturalist Coast	Coast Heath	0	
43	Scott Coastal Plain	Uplands	0	
44	Scott Coastal Plain	Valleys / Swamps	0	
45	Redmond	Uplands	0	
46	Redmond	Valleys	0	
47	Unicup	Jarrah Uplands	2	
48	Unicup	Wandoo Uplands	2	
49	Unicup	Jarrah Valleys	2	
50	Unicup	Wandoo Valleys	2	
51	Unicup	Scrubland	2	
53	Darling Plateau	Wandoo Uplands South	1	
54	Darling Plateau	Wandoo Valleys South	1	

## Appendix 2b

Fauna Habitat ID	FDIS LAND SYSTEM	FDIS LANDSCAPE UNIT	SCORE	Origin
Grey-bellied Dunnart				
1	Darling Plateau	Jarrah Uplands North	2	
2	Darling Plateau	Jarrah Uplands East	0	
3	Darling Plateau	Jarrah Uplands South	2	
4	Darling Plateau	Jarrah Uplands South East	3	
5	Darling Plateau	Karri Uplands	2	M
6	Darling Plateau	Wandoo Uplands North	3	
7	Darling Plateau	Powder Bark Uplands	3	
8	Darling Plateau	Scarp	0	
9	Darling Plateau	Depression / Swamps North	0	
10	Darling Plateau	Depressions / Swamps South	3	
11	Darling Plateau	Depressions / Swamps East	0	
12	Darling Plateau	Depressions / Swamps South East	3	
13	Darling Plateau	Jarrah Valleys North	1	
14	Darling Plateau	Jarrah Valleys East	1	
15	Darling Plateau	Jarrah Valleys South	0	
16	Darling Plateau	Jarrah Valleys South East	3	
17	Darling Plateau	Karri Valleys	3	
18	Darling Plateau	Wandoo Valleys North	1	
19	Darling Plateau	Powder Bark Wandoo Valleys	1	
20	Darling Plateau	Granite Outcrops	2	M
21	Various Systems	Esturies / Open Water	0	
22	Collie Plain	Uplands	0	
23	Collie Plain	Depressions / Swamps	0	
24	Dandaragan Plateau	Uplands	0	
25	Dandaragan Plateau	Valleys	0	
26	Swan Coastal Plain	Uplands	3	
27	Swan Coastal Plain	Valleys	3	
28	Southern Plains	Jarrah	3	
29	Southern Plains	Karri	3	
30	Southern Plains	Heath / Sedgeland	3	
31	South Coast Dunes	South Coast Dunes	3	
32	Blackwood Plateau	Jarrah Uplands	2	
33	Blackwood Plateau	Karri Uplands	2	
34	Blackwood Plateau	Depressions / Swamps	3	
35	Blackwood Plateau	Valleys	2	
36	Margaret River Plateau	Jarrah Uplands	2	
37	Margaret River Plateau	Karri Uplands	2	
38	Margaret River Plateau	Jarrah Valleys	2	
39	Margaret River Plateau	Karri Valleys	2	
40	Lewin Naturalist Coast	Jarrah	2	
41	Lewin Naturalist Coast	Marri/Karri	2	
42	Lewin Naturalist Coast	Coast Heath	3	
43	Scott Coastal Plain	Uplands	3	
44	Scott Coastal Plain	Valleys / Swamps	3	
45	Redmond	Uplands	3	
46	Redmond	Valleys	3	
47	Unicup	Jarrah Uplands	0	
48	Unicup	Wandoo Uplands	0	
49	Unicup	Jarrah Valleys	0	
50	Unicup	Wandoo Valleys	0	
51	Unicup	Scrubland	0	
53	Darling Plateau	Wandoo Uplands South	3	
54	Darling Plateau	Wandoo Valleys South	3	

## Appendix 2b

Fauna Habitat ID	FDIS LAND SYSTEM	FDIS LANDSCAPE UNIT	SCORE	Origin
Numbat				
1	Darling Plateau	Jarrah Uplands North	1	M
2	Darling Plateau	Jarrah Uplands East	1	M
3	Darling Plateau	Jarrah Uplands South	2	M
4	Darling Plateau	Jarrah Uplands South East	1	
5	Darling Plateau	Karri Uplands	0	
6	Darling Plateau	Wandoo Uplands North	3	M?
7	Darling Plateau	Powder Bark Uplands	3	M
8	Darling Plateau	Scarp	0	
9	Darling Plateau	Depression / Swamps North	0	
10	Darling Plateau	Depressions / Swamps South	1	M
11	Darling Plateau	Depressions / Swamps East	2	M
12	Darling Plateau	Depressions / Swamps South East	0	
13	Darling Plateau	Jarrah Valleys North	0	M
14	Darling Plateau	Jarrah Valleys East	3	M
15	Darling Plateau	Jarrah Valleys South	0	
16	Darling Plateau	Jarrah Valleys South East	0	M
17	Darling Plateau	Karri Valleys	0	
18	Darling Plateau	Wandoo Valleys North	3	M?
19	Darling Plateau	Powder Bark Wandoo Valleys	3	
20	Darling Plateau	Granite Outcrops	0	M
21	Various Systems	Esturies / Open Water	0	
22	Collie Plain	Uplands	0	
23	Collie Plain	Depressions / Swamps	0	
24	Dandaragan Plateau	Uplands	0	
25	Dandaragan Plateau	Valleys	0	
26	Swan Coastal Plain	Uplands	1	
27	Swan Coastal Plain	Valleys	1	
28	Southern Plains	Jarrah	0	
29	Southern Plains	Karri	0	
30	Southern Plains	Heath / Sedgeland	0	
31	South Coast Dunes	South Coast Dunes	0	
32	Blackwood Plateau	Jarrah Uplands	0	
33	Blackwood Plateau	Karri Uplands	0	
34	Blackwood Plateau	Depressions / Swamps	0	
35	Blackwood Plateau	Valleys	0	
36	Margaret River Plateau	Jarrah Uplands	0	
37	Margaret River Plateau	Karri Uplands	0	
38	Margaret River Plateau	Jarrah Valleys	0	
39	Margaret River Plateau	Karri Valleys	0	
40	Lewin Naturalist Coast	Jarrah	0	
41	Lewin Naturalist Coast	Marri/Karri	0	
42	Lewin Naturalist Coast	Coast Heath	0	
43	Scott Coastal Plain	Uplands	0	
44	Scott Coastal Plain	Valleys / Swamps	0	
45	Redmond	Uplands	0	
46	Redmond	Valleys	0	
47	Unicup	Jarrah Uplands	3	
48	Unicup	Wandoo Uplands	3	
49	Unicup	Jarrah Valleys	3	M
50	Unicup	Wandoo Valleys	3	
51	Unicup	Scrubland	3	
53	Darling Plateau	Wandoo Uplands South	3	
54	Darling Plateau	Wandoo Valleys South	3	

## Appendix 2b

Fauna Habitat ID	FDIS LAND SYSTEM	FDIS LANDSCAPE UNIT	SCORE	Origin
Bush Rat				
1	Darling Plateau	Jarrah Uplands North	0	
2	Darling Plateau	Jarrah Uplands East	0	
3	Darling Plateau	Jarrah Uplands South	3	
4	Darling Plateau	Jarrah Uplands South East	0	
5	Darling Plateau	Karri Uplands	3	M
6	Darling Plateau	Wandoo Uplands North	0	
7	Darling Plateau	Powder Bark Uplands	0	
8	Darling Plateau	Scarp	0	
9	Darling Plateau	Depression / Swamps North	0	
10	Darling Plateau	Depressions / Swamps South	2	
11	Darling Plateau	Depressions / Swamps East	0	
12	Darling Plateau	Depressions / Swamps South East	3	M
13	Darling Plateau	Jarrah Valleys North	0	
14	Darling Plateau	Jarrah Valleys East	0	
15	Darling Plateau	Jarrah Valleys South	2	
16	Darling Plateau	Jarrah Valleys South East	2	
17	Darling Plateau	Karri Valleys	3	
18	Darling Plateau	Wandoo Valleys North	0	
19	Darling Plateau	Powder Bark Wandoo Valleys	0	
20	Darling Plateau	Granite Outcrops	0	
21	Various Systems	Esturies / Open Water	0	
22	Collie Plain	Uplands	0	
23	Collie Plain	Depressions / Swamps	0	
24	Dandaragan Plateau	Uplands	0	
25	Dandaragan Plateau	Valleys	0	
26	Swan Coastal Plain	Uplands	0	
27	Swan Coastal Plain	Valleys	0	
28	Southern Plains	Jarrah	3	
29	Southern Plains	Karri	3	
30	Southern Plains	Heath / Sedgeland	3	
31	South Coast Dunes	South Coast Dunes	3	M
32	Blackwood Plateau	Jarrah Uplands	2	
33	Blackwood Plateau	Karri Uplands	3	
34	Blackwood Plateau	Depressions / Swamps	3	
35	Blackwood Plateau	Valleys	3	
36	Margaret River Plateau	Jarrah Uplands	2	
37	Margaret River Plateau	Karri Uplands	3	
38	Margaret River Plateau	Jarrah Valleys	3	
39	Margaret River Plateau	Karri Valleys	3	
40	Lewin Naturalist Coast	Jarrah	2	
41	Lewin Naturalist Coast	Marri/Karri	3	
42	Lewin Naturalist Coast	Coast Heath	3	
43	Scott Coastal Plain	Uplands	3	
44	Scott Coastal Plain	Valleys / Swamps	3	
45	Redmond	Uplands	2	
46	Redmond	Valleys	3	
47	Unicup	Jarrah Uplands	0	
48	Unicup	Wandoo Uplands	0	
49	Unicup	Jarrah Valleys	0	
50	Unicup	Wandoo Valleys	0	
51	Unicup	Scrubland	0	
53	Darling Plateau	Wandoo Uplands South	0	
54	Darling Plateau	Wandoo Valleys South	1	

## Appendix 2b

Fauna Habitat ID	FDIS LAND SYSTEM	FDIS LANDSCAPE UNIT	SCORE	Origin
Water-rat				
1	Darling Plateau	Jarrah Uplands North	0	
2	Darling Plateau	Jarrah Uplands East	0	
3	Darling Plateau	Jarrah Uplands South	0	
4	Darling Plateau	Jarrah Uplands South East	0	
5	Darling Plateau	Karri Uplands	0	
6	Darling Plateau	Wandoo Uplands North	0	
7	Darling Plateau	Powder Bark Uplands	0	
8	Darling Plateau	Scarp	0	
9	Darling Plateau	Depression / Swamps North	0	
10	Darling Plateau	Depressions / Swamps South	0	
11	Darling Plateau	Depressions / Swamps East	0	
12	Darling Plateau	Depressions / Swamps South East	0	
13	Darling Plateau	Jarrah Valleys North	2	
14	Darling Plateau	Jarrah Valleys East	0	
15	Darling Plateau	Jarrah Valleys South	2	
16	Darling Plateau	Jarrah Valleys South East	0	
17	Darling Plateau	Karri Valleys	2	
18	Darling Plateau	Wandoo Valleys North	0	
19	Darling Plateau	Powder Bark Wandoo Valleys	0	
20	Darling Plateau	Granite Outcrops	0	
21	Various Systems	Esturies / Open Water	2	
22	Collie Plain	Uplands	0	
23	Collie Plain	Depressions / Swamps	0	
24	Dandaragan Plateau	Uplands	0	
25	Dandaragan Plateau	Valleys	0	
26	Swan Coastal Plain	Uplands	0	
27	Swan Coastal Plain	Valleys	0	
28	Southern Plains	Jarrah	0	
29	Southern Plains	Karri	0	
30	Southern Plains	Heath / Sedgeland	0	
31	South Coast Dunes	South Coast Dunes	0	
32	Blackwood Plateau	Jarrah Uplands	0	
33	Blackwood Plateau	Karri Uplands	0	
34	Blackwood Plateau	Depressions / Swamps	0	
35	Blackwood Plateau	Valleys	0	
36	Margaret River Plateau	Jarrah Uplands	0	
37	Margaret River Plateau	Karri Uplands	0	
38	Margaret River Plateau	Jarrah Valleys	0	
39	Margaret River Plateau	Karri Valleys	0	
40	Lewin Naturalist Coast	Jarrah	0	
41	Lewin Naturalist Coast	Marri/Karri	0	
42	Lewin Naturalist Coast	Coast Heath	0	
43	Scott Coastal Plain	Uplands	0	
44	Scott Coastal Plain	Valleys / Swamps	0	
45	Redmond	Uplands	0	
46	Redmond	Valleys	0	
47	Unicup	Jarrah Uplands	0	
48	Unicup	Wandoo Uplands	0	
49	Unicup	Jarrah Valleys	0	
50	Unicup	Wandoo Valleys	0	
51	Unicup	Scrubland	0	
53	Darling Plateau	Wandoo Uplands South	0	
54	Darling Plateau	Wandoo Valleys South	0	

## Appendix 2b

Fauna Habitat ID	FDIS LAND SYSTEM	FDIS LANDSCAPE UNIT	SCORE	Origin
Greater Long-eared Bat				
1	Darling Plateau	Jarrah Uplands North	3	
2	Darling Plateau	Jarrah Uplands East	3	
3	Darling Plateau	Jarrah Uplands South	3	
4	Darling Plateau	Jarrah Uplands South East	3	
5	Darling Plateau	Karri Uplands	3	
6	Darling Plateau	Wandoo Uplands North	3	
7	Darling Plateau	Powder Bark Uplands	3	
8	Darling Plateau	Scarp	3	
9	Darling Plateau	Depression / Swamps North	0	
10	Darling Plateau	Depressions / Swamps South	3	
11	Darling Plateau	Depressions / Swamps East	3	
12	Darling Plateau	Depressions / Swamps South East	3	
13	Darling Plateau	Jarrah Valleys North	3	
14	Darling Plateau	Jarrah Valleys East	3	
15	Darling Plateau	Jarrah Valleys South	3	
16	Darling Plateau	Jarrah Valleys South East	3	
17	Darling Plateau	Karri Valleys	3	
18	Darling Plateau	Wandoo Valleys North	3	
19	Darling Plateau	Powder Bark Wandoo Valleys	3	
20	Darling Plateau	Granite Outcrops	3	
21	Various Systems	Esturies / Open Water	0	
22	Collie Plain	Uplands	3	
23	Collie Plain	Depressions / Swamps	3	
24	Dandaragan Plateau	Uplands	3	
25	Dandaragan Plateau	Valleys	3	
26	Swan Coastal Plain	Uplands	3	
27	Swan Coastal Plain	Valleys	3	
28	Southern Plains	Jarrah	3	
29	Southern Plains	Karri	3	
30	Southern Plains	Heath / Sedgeland	3	
31	South Coast Dunes	South Coast Dunes	3	
32	Blackwood Plateau	Jarrah Uplands	3	
33	Blackwood Plateau	Karri Uplands	3	
34	Blackwood Plateau	Depressions / Swamps	3	
35	Blackwood Plateau	Valleys	3	
36	Margaret River Plateau	Jarrah Uplands	3	
37	Margaret River Plateau	Karri Uplands	3	
38	Margaret River Plateau	Jarrah Valleys	3	
39	Margaret River Plateau	Karri Valleys	3	
40	Lewin Naturalist Coast	Jarrah	3	
41	Lewin Naturalist Coast	Marri/Karri	3	
42	Lewin Naturalist Coast	Coast Heath	3	
43	Scott Coastal Plain	Uplands	3	
44	Scott Coastal Plain	Valleys / Swamps	3	
45	Redmond	Uplands	3	
46	Redmond	Valleys	3	
47	Unicup	Jarrah Uplands	3	
48	Unicup	Wandoo Uplands	3	
49	Unicup	Jarrah Valleys	3	
50	Unicup	Wandoo Valleys	3	
51	Unicup	Scrubland	3	
53	Darling Plateau	Wandoo Uplands South	3	
54	Darling Plateau	Wandoo Valleys South	3	



## Appendix 2b

Fauna Habitat ID	FDIS LAND SYSTEM	FDIS LANDSCAPE UNIT	SCORE	Origin
Lesser Long-eared Bat				
1	Darling Plateau	Jarrah Uplands North	3	
2	Darling Plateau	Jarrah Uplands East	3	
3	Darling Plateau	Jarrah Uplands South	3	
4	Darling Plateau	Jarrah Uplands South East	3	
5	Darling Plateau	Karri Uplands	3	
6	Darling Plateau	Wandoo Uplands North	3	
7	Darling Plateau	Powder Bark Uplands	3	
8	Darling Plateau	Scarp	3	
9	Darling Plateau	Depression / Swamps North	0	
10	Darling Plateau	Depressions / Swamps South	3	
11	Darling Plateau	Depressions / Swamps East	3	
12	Darling Plateau	Depressions / Swamps South East	3	
13	Darling Plateau	Jarrah Valleys North	3	
14	Darling Plateau	Jarrah Valleys East	3	
15	Darling Plateau	Jarrah Valleys South	3	
16	Darling Plateau	Jarrah Valleys South East	3	
17	Darling Plateau	Karri Valleys	3	
18	Darling Plateau	Wandoo Valleys North	3	
19	Darling Plateau	Powder Bark Wandoo Valleys	3	
20	Darling Plateau	Granite Outcrops	3	
21	Various Systems	Esturies / Open Water	0	
22	Collie Plain	Uplands	3	
23	Collie Plain	Depressions / Swamps	3	
24	Dandaragan Plateau	Uplands	3	
25	Dandaragan Plateau	Valleys	3	
26	Swan Coastal Plain	Uplands	3	
27	Swan Coastal Plain	Valleys	3	
28	Southern Plains	Jarrah	3	
29	Southern Plains	Karri	3	
30	Southern Plains	Heath / Sedgeland	3	
31	South Coast Dunes	South Coast Dunes	3	
32	Blackwood Plateau	Jarrah Uplands	3	
33	Blackwood Plateau	Karri Uplands	3	
34	Blackwood Plateau	Depressions / Swamps	3	
35	Blackwood Plateau	Valleys	3	
36	Margaret River Plateau	Jarrah Uplands	3	
37	Margaret River Plateau	Karri Uplands	3	
38	Margaret River Plateau	Jarrah Valleys	3	
39	Margaret River Plateau	Karri Valleys	3	
40	Lewin Naturalist Coast	Jarrah	3	
41	Lewin Naturalist Coast	Marri/Karri	3	
42	Lewin Naturalist Coast	Coast Heath	3	
43	Scott Coastal Plain	Uplands	3	
44	Scott Coastal Plain	Valleys / Swamps	3	
45	Redmond	Uplands	3	
46	Redmond	Valleys	3	
47	Unicup	Jarrah Uplands	3	
48	Unicup	Wandoo Uplands	3	
49	Unicup	Jarrah Valleys	3	
50	Unicup	Wandoo Valleys	3	
51	Unicup	Scrubland	3	
53	Darling Plateau	Wandoo Uplands South	3	
54	Darling Plateau	Wandoo Valleys South	3	

## Appendix 2b

Fauna Habitat ID	FDIS LAND SYSTEM	FDIS LANDSCAPE UNIT	SCORE	Origin
Gould's Long-eared Bat				
1	Darling Plateau	Jarrah Uplands North	3	
2	Darling Plateau	Jarrah Uplands East	3	
3	Darling Plateau	Jarrah Uplands South	3	
4	Darling Plateau	Jarrah Uplands South East	3	
5	Darling Plateau	Karri Uplands	3	
6	Darling Plateau	Wandoo Uplands North	3	
7	Darling Plateau	Powder Bark Uplands	3	
8	Darling Plateau	Scarp	3	
9	Darling Plateau	Depression / Swamps North	0	
10	Darling Plateau	Depressions / Swamps South	3	
11	Darling Plateau	Depressions / Swamps East	3	
12	Darling Plateau	Depressions / Swamps South East	3	
13	Darling Plateau	Jarrah Valleys North	3	
14	Darling Plateau	Jarrah Valleys East	3	
15	Darling Plateau	Jarrah Valleys South	3	
16	Darling Plateau	Jarrah Valleys South East	3	
17	Darling Plateau	Karri Valleys	3	
18	Darling Plateau	Wandoo Valleys North	3	
19	Darling Plateau	Powder Bark Wandoo Valleys	3	
20	Darling Plateau	Granite Outcrops	3	
21	Various Systems	Esturies / Open Water	0	
22	Collie Plain	Uplands	3	
23	Collie Plain	Depressions / Swamps	3	
24	Dandaragan Plateau	Uplands	0	
25	Dandaragan Plateau	Valleys	0	
26	Swan Coastal Plain	Uplands	0	
27	Swan Coastal Plain	Valleys	0	
28	Southern Plains	Jarrah	0	
29	Southern Plains	Karri	0	
30	Southern Plains	Heath / Sedgeland	0	
31	South Coast Dunes	South Coast Dunes	0	
32	Blackwood Plateau	Jarrah Uplands	0	
33	Blackwood Plateau	Karri Uplands	0	
34	Blackwood Plateau	Depressions / Swamps	0	
35	Blackwood Plateau	Valleys	0	
36	Margaret River Plateau	Jarrah Uplands	0	
37	Margaret River Plateau	Karri Uplands	0	
38	Margaret River Plateau	Jarrah Valleys	0	
39	Margaret River Plateau	Karri Valleys	0	
40	Lewin Naturalist Coast	Jarrah	0	
41	Lewin Naturalist Coast	Marri/Karri	0	
42	Lewin Naturalist Coast	Coast Heath	0	
43	Scott Coastal Plain	Uplands	0	
44	Scott Coastal Plain	Valleys / Swamps	0	
45	Redmond	Uplands	0	
46	Redmond	Valleys	0	
47	Unicup	Jarrah Uplands	0	
48	Unicup	Wandoo Uplands	0	
49	Unicup	Jarrah Valleys	0	
50	Unicup	Wandoo Valleys	0	
51	Unicup	Scrubland	0	
53	Darling Plateau	Wandoo Uplands South	3	
54	Darling Plateau	Wandoo Valleys South	3	

## Appendix 2b

Fauna Habitat ID	FDIS LAND SYSTEM	FDIS LANDSCAPE UNIT	SCORE	Origin
Gould's Wattled Bat				
1	Darling Plateau	Jarrah Uplands North	3	
2	Darling Plateau	Jarrah Uplands East	3	
3	Darling Plateau	Jarrah Uplands South	3	
4	Darling Plateau	Jarrah Uplands South East	3	
5	Darling Plateau	Karri Uplands	3	
6	Darling Plateau	Wandoo Uplands North	3	
7	Darling Plateau	Powder Bark Uplands	3	
8	Darling Plateau	Scarp	3	
9	Darling Plateau	Depression / Swamps North	0	
10	Darling Plateau	Depressions / Swamps South	3	
11	Darling Plateau	Depressions / Swamps East	3	
12	Darling Plateau	Depressions / Swamps South East	3	
13	Darling Plateau	Jarrah Valleys North	3	
14	Darling Plateau	Jarrah Valleys East	3	
15	Darling Plateau	Jarrah Valleys South	3	
16	Darling Plateau	Jarrah Valleys South East	3	
17	Darling Plateau	Karri Valleys	3	
18	Darling Plateau	Wandoo Valleys North	3	
19	Darling Plateau	Powder Bark Wandoo Valleys	3	
20	Darling Plateau	Granite Outcrops	3	
21	Various Systems	Esturies / Open Water	0	
22	Collie Plain	Uplands	3	
23	Collie Plain	Depressions / Swamps	3	
24	Dandaragan Plateau	Uplands	3	
25	Dandaragan Plateau	Valleys	3	
26	Swan Coastal Plain	Uplands	3	
27	Swan Coastal Plain	Valleys	3	
28	Southern Plains	Jarrah	3	
29	Southern Plains	Karri	3	
30	Southern Plains	Heath / Sedgeland	3	
31	South Coast Dunes	South Coast Dunes	3	
32	Blackwood Plateau	Jarrah Uplands	3	
33	Blackwood Plateau	Karri Uplands	3	
34	Blackwood Plateau	Depressions / Swamps	3	
35	Blackwood Plateau	Valleys	3	
36	Margaret River Plateau	Jarrah Uplands	3	
37	Margaret River Plateau	Karri Uplands	3	
38	Margaret River Plateau	Jarrah Valleys	3	
39	Margaret River Plateau	Karri Valleys	3	
40	Lewin Naturalist Coast	Jarrah	3	
41	Lewin Naturalist Coast	Marri/Karri	3	
42	Lewin Naturalist Coast	Coast Heath	3	
43	Scott Coastal Plain	Uplands	3	
44	Scott Coastal Plain	Valleys / Swamps	3	
45	Redmond	Uplands	3	
46	Redmond	Valleys	3	
47	Unicup	Jarrah Uplands	3	
48	Unicup	Wandoo Uplands	3	
49	Unicup	Jarrah Valleys	3	
50	Unicup	Wandoo Valleys	3	
51	Unicup	Scrubland	3	
53	Darling Plateau	Wandoo Uplands South	3	
54	Darling Plateau	Wandoo Valleys South	3	

## Appendix 2b

Fauna Habitat ID	FDIS LAND SYSTEM	FDIS LANDSCAPE UNIT	SCORE	Origin
Chocolate Wattled Bat				
1	Darling Plateau	Jarrah Uplands North	3	
2	Darling Plateau	Jarrah Uplands East	3	
3	Darling Plateau	Jarrah Uplands South	3	
4	Darling Plateau	Jarrah Uplands South East	3	
5	Darling Plateau	Karri Uplands	3	
6	Darling Plateau	Wandoo Uplands North	3	
7	Darling Plateau	Powder Bark Uplands	3	
8	Darling Plateau	Scarp	3	
9	Darling Plateau	Depression / Swamps North	0	
10	Darling Plateau	Depressions / Swamps South	3	
11	Darling Plateau	Depressions / Swamps East	3	
12	Darling Plateau	Depressions / Swamps South East	3	
13	Darling Plateau	Jarrah Valleys North	3	
14	Darling Plateau	Jarrah Valleys East	3	
15	Darling Plateau	Jarrah Valleys South	3	
16	Darling Plateau	Jarrah Valleys South East	3	
17	Darling Plateau	Karri Valleys	3	
18	Darling Plateau	Wandoo Valleys North	3	
19	Darling Plateau	Powder Bark Wandoo Valleys	3	
20	Darling Plateau	Granite Outcrops	3	
21	Various Systems	Esturies / Open Water	0	
22	Collie Plain	Uplands	3	
23	Collie Plain	Depressions / Swamps	3	
24	Dandaragan Plateau	Uplands	3	
25	Dandaragan Plateau	Valleys	3	
26	Swan Coastal Plain	Uplands	3	
27	Swan Coastal Plain	Valleys	3	
28	Southern Plains	Jarrah	3	
29	Southern Plains	Karri	3	
30	Southern Plains	Heath / Sedgeland	3	
31	South Coast Dunes	South Coast Dunes	3	
32	Blackwood Plateau	Jarrah Uplands	3	
33	Blackwood Plateau	Karri Uplands	3	
34	Blackwood Plateau	Depressions / Swamps	3	
35	Blackwood Plateau	Valleys	3	
36	Margaret River Plateau	Jarrah Uplands	3	
37	Margaret River Plateau	Karri Uplands	3	
38	Margaret River Plateau	Jarrah Valleys	3	
39	Margaret River Plateau	Karri Valleys	3	
40	Lewin Naturalist Coast	Jarrah	3	
41	Lewin Naturalist Coast	Marri/Karri	3	
42	Lewin Naturalist Coast	Coast Heath	3	
43	Scott Coastal Plain	Uplands	3	
44	Scott Coastal Plain	Valleys / Swamps	3	
45	Redmond	Uplands	3	
46	Redmond	Valleys	3	
47	Unicup	Jarrah Uplands	3	
48	Unicup	Wandoo Uplands	3	
49	Unicup	Jarrah Valleys	3	
50	Unicup	Wandoo Valleys	3	
51	Unicup	Scrubland	3	
53	Darling Plateau	Wandoo Uplands South	3	
54	Darling Plateau	Wandoo Valleys South	3	

## Appendix 2b

Fauna Habitat ID	FDIS LAND SYSTEM	FDIS LANDSCAPE UNIT	SCORE	Origin
Southern Forest Bat				
1	Darling Plateau	Jarrah Uplands North	3	
2	Darling Plateau	Jarrah Uplands East	3	
3	Darling Plateau	Jarrah Uplands South	3	
4	Darling Plateau	Jarrah Uplands South East	3	
5	Darling Plateau	Karri Uplands	3	
6	Darling Plateau	Wandoo Uplands North	3	
7	Darling Plateau	Powder Bark Uplands	3	
8	Darling Plateau	Scarp	3	
9	Darling Plateau	Depression / Swamps North	0	
10	Darling Plateau	Depressions / Swamps South	3	
11	Darling Plateau	Depressions / Swamps East	3	
12	Darling Plateau	Depressions / Swamps South East	3	
13	Darling Plateau	Jarrah Valleys North	3	
14	Darling Plateau	Jarrah Valleys East	3	
15	Darling Plateau	Jarrah Valleys South	3	
16	Darling Plateau	Jarrah Valleys South East	3	
17	Darling Plateau	Karri Valleys	3	
18	Darling Plateau	Wandoo Valleys North	3	
19	Darling Plateau	Powder Bark Wandoo Valleys	3	
20	Darling Plateau	Granite Outcrops	3	
21	Various Systems	Esturies / Open Water	0	
22	Collie Plain	Uplands	3	
23	Collie Plain	Depressions / Swamps	3	
24	Dandaragan Plateau	Uplands	3	
25	Dandaragan Plateau	Valleys	3	
26	Swan Coastal Plain	Uplands	3	
27	Swan Coastal Plain	Valleys	3	
28	Southern Plains	Jarrah	3	
29	Southern Plains	Karri	3	
30	Southern Plains	Heath / Sedgeland	3	
31	South Coast Dunes	South Coast Dunes	3	
32	Blackwood Plateau	Jarrah Uplands	3	
33	Blackwood Plateau	Karri Uplands	3	
34	Blackwood Plateau	Depressions / Swamps	3	
35	Blackwood Plateau	Valleys	3	
36	Margaret River Plateau	Jarrah Uplands	3	
37	Margaret River Plateau	Karri Uplands	3	
38	Margaret River Plateau	Jarrah Valleys	3	
39	Margaret River Plateau	Karri Valleys	3	
40	Lewin Naturalist Coast	Jarrah	3	
41	Lewin Naturalist Coast	Marri/Karri	3	
42	Lewin Naturalist Coast	Coast Heath	3	
43	Scott Coastal Plain	Uplands	3	
44	Scott Coastal Plain	Valleys / Swamps	3	
45	Redmond	Uplands	3	
46	Redmond	Valleys	3	
47	Unicup	Jarrah Uplands	3	
48	Unicup	Wandoo Uplands	3	
49	Unicup	Jarrah Valleys	3	
50	Unicup	Wandoo Valleys	3	
51	Unicup	Scrubland	3	
53	Darling Plateau	Wandoo Uplands South	3	
54	Darling Plateau	Wandoo Valleys South	3	

## Appendix 2b

Fauna Habitat ID	FDIS LAND SYSTEM	FDIS LANDSCAPE UNIT	SCORE	Origin
Western Falsistrelle				
1	Darling Plateau	Jarrah Uplands North	3	
2	Darling Plateau	Jarrah Uplands East	2	
3	Darling Plateau	Jarrah Uplands South	3	
4	Darling Plateau	Jarrah Uplands South East	2	
5	Darling Plateau	Karri Uplands	3	
6	Darling Plateau	Wandoo Uplands North	2	
7	Darling Plateau	Powder Bark Uplands	2	
8	Darling Plateau	Scarp	3	
9	Darling Plateau	Depression / Swamps North	0	
10	Darling Plateau	Depressions / Swamps South	3	
11	Darling Plateau	Depressions / Swamps East	3	
12	Darling Plateau	Depressions / Swamps South East	3	
13	Darling Plateau	Jarrah Valleys North	3	
14	Darling Plateau	Jarrah Valleys East	2	
15	Darling Plateau	Jarrah Valleys South	3	
16	Darling Plateau	Jarrah Valleys South East	2	
17	Darling Plateau	Karri Valleys	3	
18	Darling Plateau	Wandoo Valleys North	2	
19	Darling Plateau	Powder Bark Wandoo Valleys	2	
20	Darling Plateau	Granite Outcrops	2	
21	Various Systems	Esturies / Open Water	0	
22	Collie Plain	Uplands	3	
23	Collie Plain	Depressions / Swamps	2	
24	Dandaragan Plateau	Uplands	2	
25	Dandaragan Plateau	Valleys	2	
26	Swan Coastal Plain	Uplands	3	
27	Swan Coastal Plain	Valleys	3	
28	Southern Plains	Jarrah	3	
29	Southern Plains	Karri	3	
30	Southern Plains	Heath / Sedgeland	3	
31	South Coast Dunes	South Coast Dunes	2	
32	Blackwood Plateau	Jarrah Uplands	3	
33	Blackwood Plateau	Karri Uplands	3	
34	Blackwood Plateau	Depressions / Swamps	3	
35	Blackwood Plateau	Valleys	3	
36	Margaret River Plateau	Jarrah Uplands	3	
37	Margaret River Plateau	Karri Uplands	3	
38	Margaret River Plateau	Jarrah Valleys	3	
39	Margaret River Plateau	Karri Valleys	3	
40	Lewin Naturalist Coast	Jarrah	3	
41	Lewin Naturalist Coast	Marri/Karri	3	
42	Lewin Naturalist Coast	Coast Heath	1	
43	Scott Coastal Plain	Uplands	3	
44	Scott Coastal Plain	Valleys / Swamps	3	
45	Redmond	Uplands	3	
46	Redmond	Valleys	3	
47	Unicup	Jarrah Uplands	2	
48	Unicup	Wandoo Uplands	2	
49	Unicup	Jarrah Valleys	2	
50	Unicup	Wandoo Valleys	2	
51	Unicup	Scrubland	2	
53	Darling Plateau	Wandoo Uplands South	2	
54	Darling Plateau	Wandoo Valleys South	2	

## Appendix 2b

Fauna Habitat ID	FDIS LAND SYSTEM	FDIS LANDSCAPE UNIT	SCORE	Origin
White-striped Freetail Bat				
1	Darling Plateau	Jarrah Uplands North	3	
2	Darling Plateau	Jarrah Uplands East	3	
3	Darling Plateau	Jarrah Uplands South	3	
4	Darling Plateau	Jarrah Uplands South East	3	
5	Darling Plateau	Karri Uplands	3	
6	Darling Plateau	Wandoo Uplands North	3	
7	Darling Plateau	Powder Bark Uplands	3	
8	Darling Plateau	Scarp	3	
9	Darling Plateau	Depression / Swamps North	0	
10	Darling Plateau	Depressions / Swamps South	3	
11	Darling Plateau	Depressions / Swamps East	3	
12	Darling Plateau	Depressions / Swamps South East	3	
13	Darling Plateau	Jarrah Valleys North	3	
14	Darling Plateau	Jarrah Valleys East	3	
15	Darling Plateau	Jarrah Valleys South	3	
16	Darling Plateau	Jarrah Valleys South East	3	
17	Darling Plateau	Karri Valleys	3	
18	Darling Plateau	Wandoo Valleys North	3	
19	Darling Plateau	Powder Bark Wandoo Valleys	3	
20	Darling Plateau	Granite Outcrops	3	
21	Various Systems	Esturies / Open Water	0	
22	Collie Plain	Uplands	3	
23	Collie Plain	Depressions / Swamps	3	
24	Dandaragan Plateau	Uplands	3	
25	Dandaragan Plateau	Valleys	3	
26	Swan Coastal Plain	Uplands	3	
27	Swan Coastal Plain	Valleys	3	
28	Southern Plains	Jarrah	3	
29	Southern Plains	Karri	3	
30	Southern Plains	Heath / Sedgeland	3	
31	South Coast Dunes	South Coast Dunes	3	
32	Blackwood Plateau	Jarrah Uplands	3	
33	Blackwood Plateau	Karri Uplands	3	
34	Blackwood Plateau	Depressions / Swamps	3	
35	Blackwood Plateau	Valleys	3	
36	Margaret River Plateau	Jarrah Uplands	3	
37	Margaret River Plateau	Karri Uplands	3	
38	Margaret River Plateau	Jarrah Valleys	3	
39	Margaret River Plateau	Karri Valleys	3	
40	Lewin Naturalist Coast	Jarrah	3	
41	Lewin Naturalist Coast	Marri/Karri	3	
42	Lewin Naturalist Coast	Coast Heath	3	
43	Scott Coastal Plain	Uplands	3	
44	Scott Coastal Plain	Valleys / Swamps	3	
45	Redmond	Uplands	3	
46	Redmond	Valleys	3	
47	Unicup	Jarrah Uplands	3	
48	Unicup	Wandoo Uplands	3	
49	Unicup	Jarrah Valleys	3	
50	Unicup	Wandoo Valleys	3	
51	Unicup	Scrubland	3	
53	Darling Plateau	Wandoo Uplands South	3	
54	Darling Plateau	Wandoo Valleys South	3	

## Appendix 2b

Fauna Habitat ID	FDIS LAND SYSTEM	FDIS LANDSCAPE UNIT	SCORE	Origin
Southern Freetail Bat				
1	Darling Plateau	Jarrah Uplands North	3	
2	Darling Plateau	Jarrah Uplands East	3	
3	Darling Plateau	Jarrah Uplands South	3	
4	Darling Plateau	Jarrah Uplands South East	3	
5	Darling Plateau	Karri Uplands	3	
6	Darling Plateau	Wandoo Uplands North	3	
7	Darling Plateau	Powder Bark Uplands	3	
8	Darling Plateau	Scarp	3	
9	Darling Plateau	Depression / Swamps North	0	
10	Darling Plateau	Depressions / Swamps South	3	
11	Darling Plateau	Depressions / Swamps East	3	
12	Darling Plateau	Depressions / Swamps South East	3	
13	Darling Plateau	Jarrah Valleys North	3	
14	Darling Plateau	Jarrah Valleys East	3	
15	Darling Plateau	Jarrah Valleys South	3	
16	Darling Plateau	Jarrah Valleys South East	3	
17	Darling Plateau	Karri Valleys	3	
18	Darling Plateau	Wandoo Valleys North	3	
19	Darling Plateau	Powder Bark Wandoo Valleys	3	
20	Darling Plateau	Granite Outcrops	3	
21	Various Systems	Esturies / Open Water	0	
22	Collie Plain	Uplands	3	
23	Collie Plain	Depressions / Swamps	3	
24	Dandaragan Plateau	Uplands	3	
25	Dandaragan Plateau	Valleys	3	
26	Swan Coastal Plain	Uplands	3	
27	Swan Coastal Plain	Valleys	3	
28	Southern Plains	Jarrah	3	
29	Southern Plains	Karri	3	
30	Southern Plains	Heath / Sedgeland	3	
31	South Coast Dunes	South Coast Dunes	3	
32	Blackwood Plateau	Jarrah Uplands	3	
33	Blackwood Plateau	Karri Uplands	3	
34	Blackwood Plateau	Depressions / Swamps	3	
35	Blackwood Plateau	Valleys	3	
36	Margaret River Plateau	Jarrah Uplands	3	
37	Margaret River Plateau	Karri Uplands	3	
38	Margaret River Plateau	Jarrah Valleys	3	
39	Margaret River Plateau	Karri Valleys	3	
40	Lewin Naturalist Coast	Jarrah	3	
41	Lewin Naturalist Coast	Marri/Karri	3	
42	Lewin Naturalist Coast	Coast Heath	3	
43	Scott Coastal Plain	Uplands	3	
44	Scott Coastal Plain	Valleys / Swamps	3	
45	Redmond	Uplands	3	
46	Redmond	Valleys	3	
47	Unicup	Jarrah Uplands	3	
48	Unicup	Wandoo Uplands	3	
49	Unicup	Jarrah Valleys	3	
50	Unicup	Wandoo Valleys	3	
51	Unicup	Scrubland	3	
53	Darling Plateau	Wandoo Uplands South	3	
54	Darling Plateau	Wandoo Valleys South	3	



## Appendix 2b

Fauna Habitat ID	FDIS LAND SYSTEM	FDIS LANDSCAPE UNIT	SCORE	Origin
Echidna				
1	Darling Plateau	Jarrah Uplands North	3	
2	Darling Plateau	Jarrah Uplands East	3	
3	Darling Plateau	Jarrah Uplands South	2	
4	Darling Plateau	Jarrah Uplands South East	3	
5	Darling Plateau	Karri Uplands	1	
6	Darling Plateau	Wandoo Uplands North	3	
7	Darling Plateau	Powder Bark Uplands	3	
8	Darling Plateau	Scarp	3	
9	Darling Plateau	Depression / Swamps North	0	
10	Darling Plateau	Depressions / Swamps South	2	
11	Darling Plateau	Depressions / Swamps East	1	
12	Darling Plateau	Depressions / Swamps South East	0	
13	Darling Plateau	Jarrah Valleys North	3	
14	Darling Plateau	Jarrah Valleys East	3	
15	Darling Plateau	Jarrah Valleys South	2	
16	Darling Plateau	Jarrah Valleys South East	3	
17	Darling Plateau	Karri Valleys	1	
18	Darling Plateau	Wandoo Valleys North	3	
19	Darling Plateau	Powder Bark Wandoo Valleys	3	
20	Darling Plateau	Granite Outcrops	1	
21	Various Systems	Esturies / Open Water	0	
22	Collie Plain	Uplands	3	
23	Collie Plain	Depressions / Swamps	3	
24	Dandaragan Plateau	Uplands	1	
25	Dandaragan Plateau	Valleys	1	
26	Swan Coastal Plain	Uplands	3	
27	Swan Coastal Plain	Valleys	3	
28	Southern Plains	Jarrah	0	
29	Southern Plains	Karri	0	
30	Southern Plains	Heath / Sedgeland	0	
31	South Coast Dunes	South Coast Dunes	0	
32	Blackwood Plateau	Jarrah Uplands	2	
33	Blackwood Plateau	Karri Uplands	0	
34	Blackwood Plateau	Depressions / Swamps	0	
35	Blackwood Plateau	Valleys	2	
36	Margaret River Plateau	Jarrah Uplands	2	
37	Margaret River Plateau	Karri Uplands	0	
38	Margaret River Plateau	Jarrah Valleys	2	
39	Margaret River Plateau	Karri Valleys	0	
40	Lewin Naturalist Coast	Jarrah	1	
41	Lewin Naturalist Coast	Marri/Karri	0	
42	Lewin Naturalist Coast	Coast Heath	0	
43	Scott Coastal Plain	Uplands	0	
44	Scott Coastal Plain	Valleys / Swamps	0	
45	Redmond	Uplands	1	
46	Redmond	Valleys	1	
47	Unicup	Jarrah Uplands	2	
48	Unicup	Wandoo Uplands	2	
49	Unicup	Jarrah Valleys	2	
50	Unicup	Wandoo Valleys	2	
51	Unicup	Scrubland	2	
53	Darling Plateau	Wandoo Uplands South	3	
54	Darling Plateau	Wandoo Valleys South	3	

## Appendix 2b

Fauna Habitat ID	FDIS LAND SYSTEM	FDIS LANDSCAPE UNIT	SCORE	Origin
Cat *				
1	Darling Plateau	Jarrah Uplands North	3	
2	Darling Plateau	Jarrah Uplands East	3	
3	Darling Plateau	Jarrah Uplands South	3	
4	Darling Plateau	Jarrah Uplands South East	3	
5	Darling Plateau	Karri Uplands	3	
6	Darling Plateau	Wandoo Uplands North	3	
7	Darling Plateau	Powder Bark Uplands	3	
8	Darling Plateau	Scarp	3	
9	Darling Plateau	Depression / Swamps North	3	
10	Darling Plateau	Depressions / Swamps South	3	
11	Darling Plateau	Depressions / Swamps East	3	
12	Darling Plateau	Depressions / Swamps South East	3	
13	Darling Plateau	Jarrah Valleys North	3	
14	Darling Plateau	Jarrah Valleys East	3	
15	Darling Plateau	Jarrah Valleys South	3	
16	Darling Plateau	Jarrah Valleys South East	3	
17	Darling Plateau	Karri Valleys	3	
18	Darling Plateau	Wandoo Valleys North	3	
19	Darling Plateau	Powder Bark Wandoo Valleys	3	
20	Darling Plateau	Granite Outcrops	3	
21	Various Systems	Esturies / Open Water	0	
22	Collie Plain	Uplands	3	
23	Collie Plain	Depressions / Swamps	3	
24	Dandaragan Plateau	Uplands	3	
25	Dandaragan Plateau	Valleys	3	
26	Swan Coastal Plain	Uplands	3	
27	Swan Coastal Plain	Valleys	3	
28	Southern Plains	Jarrah	3	
29	Southern Plains	Karri	3	
30	Southern Plains	Heath / Sedgeland	3	
31	South Coast Dunes	South Coast Dunes	3	
32	Blackwood Plateau	Jarrah Uplands	3	
33	Blackwood Plateau	Karri Uplands	3	
34	Blackwood Plateau	Depressions / Swamps	3	
35	Blackwood Plateau	Valleys	3	
36	Margaret River Plateau	Jarrah Uplands	3	
37	Margaret River Plateau	Karri Uplands	3	
38	Margaret River Plateau	Jarrah Valleys	3	
39	Margaret River Plateau	Karri Valleys	3	
40	Lewin Naturalist Coast	Jarrah	3	
41	Lewin Naturalist Coast	Marri/Karri	3	
42	Lewin Naturalist Coast	Coast Heath	3	
43	Scott Coastal Plain	Uplands	3	
44	Scott Coastal Plain	Valleys / Swamps	3	
45	Redmond	Uplands	3	
46	Redmond	Valleys	3	
47	Unicup	Jarrah Uplands	3	
48	Unicup	Wandoo Uplands	3	
49	Unicup	Jarrah Valleys	3	
50	Unicup	Wandoo Valleys	3	
51	Unicup	Scrubland	3	
53	Darling Plateau	Wandoo Uplands South	3	
54	Darling Plateau	Wandoo Valleys South	3	

## Appendix 2b

Fauna Habitat ID	FDIS LAND SYSTEM	FDIS LANDSCAPE UNIT	SCORE	Origin
Dingo *				
1	Darling Plateau	Jarrah Uplands North	0	
2	Darling Plateau	Jarrah Uplands East	1	
3	Darling Plateau	Jarrah Uplands South	0	
4	Darling Plateau	Jarrah Uplands South East	1	
5	Darling Plateau	Karri Uplands	0	
6	Darling Plateau	Wandoo Uplands North	0	
7	Darling Plateau	Powder Bark Uplands	0	
8	Darling Plateau	Scarp	0	
9	Darling Plateau	Depression / Swamps North	0	
10	Darling Plateau	Depressions / Swamps South	1	
11	Darling Plateau	Depressions / Swamps East	0	
12	Darling Plateau	Depressions / Swamps South East	1	
13	Darling Plateau	Jarrah Valleys North	0	
14	Darling Plateau	Jarrah Valleys East	1	
15	Darling Plateau	Jarrah Valleys South	0	
16	Darling Plateau	Jarrah Valleys South East	1	
17	Darling Plateau	Karri Valleys	0	
18	Darling Plateau	Wandoo Valleys North	0	
19	Darling Plateau	Powder Bark Wandoo Valleys	0	
20	Darling Plateau	Granite Outcrops	1	
21	Various Systems	Esturies / Open Water	0	
22	Collie Plain	Uplands	0	
23	Collie Plain	Depressions / Swamps	0	
24	Dandaragan Plateau	Uplands	0	
25	Dandaragan Plateau	Valleys	0	
26	Swan Coastal Plain	Uplands	0	
27	Swan Coastal Plain	Valleys	0	
28	Southern Plains	Jarrah	1	
29	Southern Plains	Karri	0	
30	Southern Plains	Heath / Sedgeland	1	
31	South Coast Dunes	South Coast Dunes	1	
32	Blackwood Plateau	Jarrah Uplands	0	
33	Blackwood Plateau	Karri Uplands	0	
34	Blackwood Plateau	Depressions / Swamps	0	
35	Blackwood Plateau	Valleys	0	
36	Margaret River Plateau	Jarrah Uplands	0	
37	Margaret River Plateau	Karri Uplands	0	
38	Margaret River Plateau	Jarrah Valleys	0	
39	Margaret River Plateau	Karri Valleys	0	
40	Lewin Naturalist Coast	Jarrah	0	
41	Lewin Naturalist Coast	Marri/Karri	0	
42	Lewin Naturalist Coast	Coast Heath	0	
43	Scott Coastal Plain	Uplands	1	
44	Scott Coastal Plain	Valleys / Swamps	1	
45	Redmond	Uplands	1	
46	Redmond	Valleys	1	
47	Unicup	Jarrah Uplands	1	
48	Unicup	Wandoo Uplands	1	
49	Unicup	Jarrah Valleys	1	
50	Unicup	Wandoo Valleys	1	
51	Unicup	Scrubland	1	
53	Darling Plateau	Wandoo Uplands South	1	
54	Darling Plateau	Wandoo Valleys South	1	

## Appendix 2b

Fauna Habitat ID	FDIS LAND SYSTEM	FDIS LANDSCAPE UNIT	SCORE	Origin
Goat *				
1	Darling Plateau	Jarrah Uplands North	0	
2	Darling Plateau	Jarrah Uplands East	0	
3	Darling Plateau	Jarrah Uplands South	1	
4	Darling Plateau	Jarrah Uplands South East	0	
5	Darling Plateau	Karri Uplands	1	
6	Darling Plateau	Wandoo Uplands North	0	
7	Darling Plateau	Powder Bark Uplands	0	
8	Darling Plateau	Scarp	0	
9	Darling Plateau	Depression / Swamps North	0	
10	Darling Plateau	Depressions / Swamps South	0	
11	Darling Plateau	Depressions / Swamps East	0	
12	Darling Plateau	Depressions / Swamps South East	0	
13	Darling Plateau	Jarrah Valleys North	0	
14	Darling Plateau	Jarrah Valleys East	0	
15	Darling Plateau	Jarrah Valleys South	1	
16	Darling Plateau	Jarrah Valleys South East	0	
17	Darling Plateau	Karri Valleys	1	
18	Darling Plateau	Wandoo Valleys North	0	
19	Darling Plateau	Powder Bark Wandoo Valleys	0	
20	Darling Plateau	Granite Outcrops	0	
21	Various Systems	Esturies / Open Water	0	
22	Collie Plain	Uplands	0	
23	Collie Plain	Depressions / Swamps	0	
24	Dandaragan Plateau	Uplands	0	
25	Dandaragan Plateau	Valleys	0	
26	Swan Coastal Plain	Uplands	0	
27	Swan Coastal Plain	Valleys	0	
28	Southern Plains	Jarrah	0	
29	Southern Plains	Karri	0	
30	Southern Plains	Heath / Sedgeland	0	
31	South Coast Dunes	South Coast Dunes	0	
32	Blackwood Plateau	Jarrah Uplands	0	
33	Blackwood Plateau	Karri Uplands	0	
34	Blackwood Plateau	Depressions / Swamps	0	
35	Blackwood Plateau	Valleys	0	
36	Margaret River Plateau	Jarrah Uplands	0	
37	Margaret River Plateau	Karri Uplands	0	
38	Margaret River Plateau	Jarrah Valleys	0	
39	Margaret River Plateau	Karri Valleys	0	
40	Lewin Naturalist Coast	Jarrah	0	
41	Lewin Naturalist Coast	Marri/Karri	0	
42	Lewin Naturalist Coast	Coast Heath	0	
43	Scott Coastal Plain	Uplands	0	
44	Scott Coastal Plain	Valleys / Swamps	0	
45	Redmond	Uplands	0	
46	Redmond	Valleys	0	
47	Unicup	Jarrah Uplands	0	
48	Unicup	Wandoo Uplands	0	
49	Unicup	Jarrah Valleys	0	
50	Unicup	Wandoo Valleys	0	
51	Unicup	Scrubland	0	
53	Darling Plateau	Wandoo Uplands South	0	
54	Darling Plateau	Wandoo Valleys South	0	

## Appendix 2b

Fauna Habitat ID	FDIS LAND SYSTEM	FDIS LANDSCAPE UNIT	SCORE	Origin
Horse *				
1	Darling Plateau	Jarrah Uplands North	0	
2	Darling Plateau	Jarrah Uplands East	0	
3	Darling Plateau	Jarrah Uplands South	1	
4	Darling Plateau	Jarrah Uplands South East	1	
5	Darling Plateau	Karri Uplands	0	
6	Darling Plateau	Wandoo Uplands North	0	
7	Darling Plateau	Powder Bark Uplands	0	
8	Darling Plateau	Scarp	0	
9	Darling Plateau	Depression / Swamps North	0	
10	Darling Plateau	Depressions / Swamps South	0	
11	Darling Plateau	Depressions / Swamps East	0	
12	Darling Plateau	Depressions / Swamps South East	2	
13	Darling Plateau	Jarrah Valleys North	0	
14	Darling Plateau	Jarrah Valleys East	0	
15	Darling Plateau	Jarrah Valleys South	0	
16	Darling Plateau	Jarrah Valleys South East	1	
17	Darling Plateau	Karri Valleys	0	
18	Darling Plateau	Wandoo Valleys North	0	
19	Darling Plateau	Powder Bark Wandoo Valleys	0	
20	Darling Plateau	Granite Outcrops	0	
21	Various Systems	Esturies / Open Water	0	
22	Collie Plain	Uplands	0	
23	Collie Plain	Depressions / Swamps	0	
24	Dandaragan Plateau	Uplands	0	
25	Dandaragan Plateau	Valleys	0	
26	Swan Coastal Plain	Uplands	0	
27	Swan Coastal Plain	Valleys	0	
28	Southern Plains	Jarrah	0	
29	Southern Plains	Karri	0	
30	Southern Plains	Heath / Sedgeland	0	
31	South Coast Dunes	South Coast Dunes	0	
32	Blackwood Plateau	Jarrah Uplands	0	
33	Blackwood Plateau	Karri Uplands	0	
34	Blackwood Plateau	Depressions / Swamps	0	
35	Blackwood Plateau	Valleys	0	
36	Margaret River Plateau	Jarrah Uplands	0	
37	Margaret River Plateau	Karri Uplands	0	
38	Margaret River Plateau	Jarrah Valleys	0	
39	Margaret River Plateau	Karri Valleys	0	
40	Lewin Naturalist Coast	Jarrah	0	
41	Lewin Naturalist Coast	Marri/Karri	0	
42	Lewin Naturalist Coast	Coast Heath	0	
43	Scott Coastal Plain	Uplands	0	
44	Scott Coastal Plain	Valleys / Swamps	0	
45	Redmond	Uplands	0	
46	Redmond	Valleys	0	
47	Unicup	Jarrah Uplands	1	
48	Unicup	Wandoo Uplands	1	
49	Unicup	Jarrah Valleys	1	
50	Unicup	Wandoo Valleys	1	
51	Unicup	Scrubland	1	
53	Darling Plateau	Wandoo Uplands South	1	
54	Darling Plateau	Wandoo Valleys South	0	

## Appendix 2b

Fauna Habitat ID	FDIS LAND SYSTEM	FDIS LANDSCAPE UNIT	SCORE	Origin
House Mouse *				
1	Darling Plateau	Jarrah Uplands North	3	
2	Darling Plateau	Jarrah Uplands East	3	
3	Darling Plateau	Jarrah Uplands South	3	
4	Darling Plateau	Jarrah Uplands South East	3	
5	Darling Plateau	Karri Uplands	3	
6	Darling Plateau	Wandoo Uplands North	3	
7	Darling Plateau	Powder Bark Uplands	3	
8	Darling Plateau	Scarp	3	
9	Darling Plateau	Depression / Swamps North	3	
10	Darling Plateau	Depressions / Swamps South	3	
11	Darling Plateau	Depressions / Swamps East	3	
12	Darling Plateau	Depressions / Swamps South East	3	
13	Darling Plateau	Jarrah Valleys North	3	
14	Darling Plateau	Jarrah Valleys East	3	
15	Darling Plateau	Jarrah Valleys South	3	
16	Darling Plateau	Jarrah Valleys South East	3	
17	Darling Plateau	Karri Valleys	3	
18	Darling Plateau	Wandoo Valleys North	3	
19	Darling Plateau	Powder Bark Wandoo Valleys	3	
20	Darling Plateau	Granite Outcrops	3	
21	Various Systems	Esturies / Open Water	0	
22	Collie Plain	Uplands	3	
23	Collie Plain	Depressions / Swamps	3	
24	Dandaragan Plateau	Uplands	3	
25	Dandaragan Plateau	Valleys	3	
26	Swan Coastal Plain	Uplands	3	
27	Swan Coastal Plain	Valleys	3	
28	Southern Plains	Jarrah	3	
29	Southern Plains	Karri	3	
30	Southern Plains	Heath / Sedgeland	3	
31	South Coast Dunes	South Coast Dunes	3	
32	Blackwood Plateau	Jarrah Uplands	3	
33	Blackwood Plateau	Karri Uplands	3	
34	Blackwood Plateau	Depressions / Swamps	3	
35	Blackwood Plateau	Valleys	3	
36	Margaret River Plateau	Jarrah Uplands	3	
37	Margaret River Plateau	Karri Uplands	3	
38	Margaret River Plateau	Jarrah Valleys	3	
39	Margaret River Plateau	Karri Valleys	3	
40	Lewin Naturalist Coast	Jarrah	3	
41	Lewin Naturalist Coast	Marri/Karri	3	
42	Lewin Naturalist Coast	Coast Heath	3	
43	Scott Coastal Plain	Uplands	3	
44	Scott Coastal Plain	Valleys / Swamps	3	
45	Redmond	Uplands	3	
46	Redmond	Valleys	3	
47	Unicup	Jarrah Uplands	3	
48	Unicup	Wandoo Uplands	3	
49	Unicup	Jarrah Valleys	3	
50	Unicup	Wandoo Valleys	3	
51	Unicup	Scrubland	3	
53	Darling Plateau	Wandoo Uplands South	3	
54	Darling Plateau	Wandoo Valleys South	3	

## Appendix 2b

Fauna Habitat ID	FDIS LAND SYSTEM	FDIS LANDSCAPE UNIT	SCORE	Origin
Black Rat *				
1	Darling Plateau	Jarrah Uplands North	0	
2	Darling Plateau	Jarrah Uplands East	0	
3	Darling Plateau	Jarrah Uplands South	1	
4	Darling Plateau	Jarrah Uplands South East	0	
5	Darling Plateau	Karri Uplands	2	
6	Darling Plateau	Wandoo Uplands North	0	
7	Darling Plateau	Powder Bark Uplands	0	
8	Darling Plateau	Scarp	0	
9	Darling Plateau	Depression / Swamps North	3	
10	Darling Plateau	Depressions / Swamps South	2	
11	Darling Plateau	Depressions / Swamps East	0	
12	Darling Plateau	Depressions / Swamps South East	2	
13	Darling Plateau	Jarrah Valleys North	3	
14	Darling Plateau	Jarrah Valleys East	0	
15	Darling Plateau	Jarrah Valleys South	2	
16	Darling Plateau	Jarrah Valleys South East	0	
17	Darling Plateau	Karri Valleys	2	
18	Darling Plateau	Wandoo Valleys North	0	
19	Darling Plateau	Powder Bark Wandoo Valleys	0	
20	Darling Plateau	Granite Outcrops	1	
21	Various Systems	Esturies / Open Water	0	
22	Collie Plain	Uplands	0	
23	Collie Plain	Depressions / Swamps	2	
24	Dandaragan Plateau	Uplands	0	
25	Dandaragan Plateau	Valleys	0	
26	Swan Coastal Plain	Uplands	0	
27	Swan Coastal Plain	Valleys	3	
28	Southern Plains	Jarrah	2	
29	Southern Plains	Karri	2	
30	Southern Plains	Heath / Sedgeland	2	
31	South Coast Dunes	South Coast Dunes	2	
32	Blackwood Plateau	Jarrah Uplands	0	
33	Blackwood Plateau	Karri Uplands	2	
34	Blackwood Plateau	Depressions / Swamps	2	
35	Blackwood Plateau	Valleys	2	
36	Margaret River Plateau	Jarrah Uplands	0	
37	Margaret River Plateau	Karri Uplands	2	
38	Margaret River Plateau	Jarrah Valleys	2	
39	Margaret River Plateau	Karri Valleys	2	
40	Lewin Naturalist Coast	Jarrah	2	
41	Lewin Naturalist Coast	Marri/Karri	2	
42	Lewin Naturalist Coast	Coast Heath	3	
43	Scott Coastal Plain	Uplands	0	
44	Scott Coastal Plain	Valleys / Swamps	2	
45	Redmond	Uplands	0	
46	Redmond	Valleys	2	
47	Unicup	Jarrah Uplands	0	
48	Unicup	Wandoo Uplands	0	
49	Unicup	Jarrah Valleys	0	
50	Unicup	Wandoo Valleys	0	
51	Unicup	Scrubland	0	
53	Darling Plateau	Wandoo Uplands South	0	
54	Darling Plateau	Wandoo Valleys South	0	

## Appendix 2b

Fauna Habitat ID	FDIS LAND SYSTEM	FDIS LANDSCAPE UNIT	SCORE	Origin
Rabbit *				
1	Darling Plateau	Jarrah Uplands North	2	
2	Darling Plateau	Jarrah Uplands East	2	
3	Darling Plateau	Jarrah Uplands South	2	
4	Darling Plateau	Jarrah Uplands South East	3	
5	Darling Plateau	Karri Uplands	2	
6	Darling Plateau	Wandoo Uplands North	3	
7	Darling Plateau	Powder Bark Uplands	3	
8	Darling Plateau	Scarp	2	
9	Darling Plateau	Depression / Swamps North	2	
10	Darling Plateau	Depressions / Swamps South	2	
11	Darling Plateau	Depressions / Swamps East	2	
12	Darling Plateau	Depressions / Swamps South East	2	
13	Darling Plateau	Jarrah Valleys North	2	
14	Darling Plateau	Jarrah Valleys East	2	
15	Darling Plateau	Jarrah Valleys South	2	
16	Darling Plateau	Jarrah Valleys South East	3	
17	Darling Plateau	Karri Valleys	2	
18	Darling Plateau	Wandoo Valleys North	3	
19	Darling Plateau	Powder Bark Wandoo Valleys	3	
20	Darling Plateau	Granite Outcrops	3	
21	Various Systems	Esturies / Open Water	0	
22	Collie Plain	Uplands	2	
23	Collie Plain	Depressions / Swamps	2	
24	Dandaragan Plateau	Uplands	2	
25	Dandaragan Plateau	Valleys	2	
26	Swan Coastal Plain	Uplands	3	
27	Swan Coastal Plain	Valleys	3	
28	Southern Plains	Jarrah	2	
29	Southern Plains	Karri	2	
30	Southern Plains	Heath / Sedgeland	2	
31	South Coast Dunes	South Coast Dunes	3	
32	Blackwood Plateau	Jarrah Uplands	2	
33	Blackwood Plateau	Karri Uplands	2	
34	Blackwood Plateau	Depressions / Swamps	2	
35	Blackwood Plateau	Valleys	2	
36	Margaret River Plateau	Jarrah Uplands	2	
37	Margaret River Plateau	Karri Uplands	2	
38	Margaret River Plateau	Jarrah Valleys	2	
39	Margaret River Plateau	Karri Valleys	2	
40	Lewin Naturalist Coast	Jarrah	2	
41	Lewin Naturalist Coast	Marri/Karri	2	
42	Lewin Naturalist Coast	Coast Heath	3	
43	Scott Coastal Plain	Uplands	2	
44	Scott Coastal Plain	Valleys / Swamps	2	
45	Redmond	Uplands	2	
46	Redmond	Valleys	2	
47	Unicup	Jarrah Uplands	2	
48	Unicup	Wandoo Uplands	3	
49	Unicup	Jarrah Valleys	2	
50	Unicup	Wandoo Valleys	3	
51	Unicup	Scrubland	3	
53	Darling Plateau	Wandoo Uplands South	3	
54	Darling Plateau	Wandoo Valleys South	3	



## Appendix 2b

Fauna Habitat ID	FDIS LAND SYSTEM	FDIS LANDSCAPE UNIT	SCORE	Origin
Fox *				
1	Darling Plateau	Jarrah Uplands North	3	
2	Darling Plateau	Jarrah Uplands East	3	
3	Darling Plateau	Jarrah Uplands South	3	
4	Darling Plateau	Jarrah Uplands South East	3	
5	Darling Plateau	Karri Uplands	3	
6	Darling Plateau	Wandoo Uplands North	3	
7	Darling Plateau	Powder Bark Uplands	3	
8	Darling Plateau	Scarp	3	
9	Darling Plateau	Depression / Swamps North	3	
10	Darling Plateau	Depressions / Swamps South	3	
11	Darling Plateau	Depressions / Swamps East	3	
12	Darling Plateau	Depressions / Swamps South East	3	
13	Darling Plateau	Jarrah Valleys North	3	
14	Darling Plateau	Jarrah Valleys East	3	
15	Darling Plateau	Jarrah Valleys South	3	
16	Darling Plateau	Jarrah Valleys South East	3	
17	Darling Plateau	Karri Valleys	3	
18	Darling Plateau	Wandoo Valleys North	3	
19	Darling Plateau	Powder Bark Wandoo Valleys	3	
20	Darling Plateau	Granite Outcrops	3	
21	Various Systems	Esturies / Open Water	0	
22	Collie Plain	Uplands	3	
23	Collie Plain	Depressions / Swamps	3	
24	Dandaragan Plateau	Uplands	3	
25	Dandaragan Plateau	Valleys	3	
26	Swan Coastal Plain	Uplands	3	
27	Swan Coastal Plain	Valleys	3	
28	Southern Plains	Jarrah	3	
29	Southern Plains	Karri	3	
30	Southern Plains	Heath / Sedgeland	3	
31	South Coast Dunes	South Coast Dunes	3	
32	Blackwood Plateau	Jarrah Uplands	3	
33	Blackwood Plateau	Karri Uplands	3	
34	Blackwood Plateau	Depressions / Swamps	3	
35	Blackwood Plateau	Valleys	3	
36	Margaret River Plateau	Jarrah Uplands	3	
37	Margaret River Plateau	Karri Uplands	3	
38	Margaret River Plateau	Jarrah Valleys	3	
39	Margaret River Plateau	Karri Valleys	3	
40	Lewin Naturalist Coast	Jarrah	3	
41	Lewin Naturalist Coast	Marri/Karri	3	
42	Lewin Naturalist Coast	Coast Heath	3	
43	Scott Coastal Plain	Uplands	3	
44	Scott Coastal Plain	Valleys / Swamps	3	
45	Redmond	Uplands	3	
46	Redmond	Valleys	3	
47	Unicup	Jarrah Uplands	3	
48	Unicup	Wandoo Uplands	3	
49	Unicup	Jarrah Valleys	3	
50	Unicup	Wandoo Valleys	3	
51	Unicup	Scrubland	3	
53	Darling Plateau	Wandoo Uplands South	3	
54	Darling Plateau	Wandoo Valleys South	3	

## Appendix 2b

Fauna Habitat ID	FDIS LAND SYSTEM	FDIS LANDSCAPE UNIT	SCORE	Origin
Pig *				
1	Darling Plateau	Jarrah Uplands North	2	
2	Darling Plateau	Jarrah Uplands East	2	
3	Darling Plateau	Jarrah Uplands South	1	
4	Darling Plateau	Jarrah Uplands South East	1	
5	Darling Plateau	Karri Uplands	0	
6	Darling Plateau	Wandoo Uplands North	0	
7	Darling Plateau	Powder Bark Uplands	0	
8	Darling Plateau	Scarp	1	
9	Darling Plateau	Depression / Swamps North	2	
10	Darling Plateau	Depressions / Swamps South	1	
11	Darling Plateau	Depressions / Swamps East	1	
12	Darling Plateau	Depressions / Swamps South East	0	
13	Darling Plateau	Jarrah Valleys North	2	
14	Darling Plateau	Jarrah Valleys East	2	
15	Darling Plateau	Jarrah Valleys South	1	
16	Darling Plateau	Jarrah Valleys South East	2	
17	Darling Plateau	Karri Valleys	0	
18	Darling Plateau	Wandoo Valleys North	0	
19	Darling Plateau	Powder Bark Wandoo Valleys	0	
20	Darling Plateau	Granite Outcrops	0	
21	Various Systems	Esturies / Open Water	0	
22	Collie Plain	Uplands	2	
23	Collie Plain	Depressions / Swamps	2	
24	Dandaragan Plateau	Uplands	0	
25	Dandaragan Plateau	Valleys	0	
26	Swan Coastal Plain	Uplands	0	
27	Swan Coastal Plain	Valleys	1	
28	Southern Plains	Jarrah	1	
29	Southern Plains	Karri	0	
30	Southern Plains	Heath / Sedgeland	1	
31	South Coast Dunes	South Coast Dunes	0	
32	Blackwood Plateau	Jarrah Uplands	2	
33	Blackwood Plateau	Karri Uplands	1	
34	Blackwood Plateau	Depressions / Swamps	2	
35	Blackwood Plateau	Valleys	2	
36	Margaret River Plateau	Jarrah Uplands	0	
37	Margaret River Plateau	Karri Uplands	0	
38	Margaret River Plateau	Jarrah Valleys	0	
39	Margaret River Plateau	Karri Valleys	0	
40	Lewin Naturalist Coast	Jarrah	0	
41	Lewin Naturalist Coast	Marri/Karri	0	
42	Lewin Naturalist Coast	Coast Heath	0	
43	Scott Coastal Plain	Uplands	0	
44	Scott Coastal Plain	Valleys / Swamps	2	
45	Redmond	Uplands	0	
46	Redmond	Valleys	0	
47	Unicup	Jarrah Uplands	2	
48	Unicup	Wandoo Uplands	2	
49	Unicup	Jarrah Valleys	2	
50	Unicup	Wandoo Valleys	0	
51	Unicup	Scrubland	2	
53	Darling Plateau	Wandoo Uplands South	0	
54	Darling Plateau	Wandoo Valleys South	0	

## Appendix 2b

Fauna Habitat ID	FDIS LAND SYSTEM	FDIS LANDSCAPE UNIT	SCORE	Origin
Emu				
1	Darling Plateau	Jarrah Uplands North	3	
2	Darling Plateau	Jarrah Uplands East	3	
3	Darling Plateau	Jarrah Uplands South	3	
4	Darling Plateau	Jarrah Uplands South East	3	
5	Darling Plateau	Karri Uplands	3	
6	Darling Plateau	Wandoo Uplands North	3	
7	Darling Plateau	Powder Bark Uplands	3	
8	Darling Plateau	Scarp	3	
9	Darling Plateau	Depression / Swamps North	3	
10	Darling Plateau	Depressions / Swamps South	3	
11	Darling Plateau	Depressions / Swamps East	3	
12	Darling Plateau	Depressions / Swamps South East	3	
13	Darling Plateau	Jarrah Valleys North	3	
14	Darling Plateau	Jarrah Valleys East	3	
15	Darling Plateau	Jarrah Valleys South	3	
16	Darling Plateau	Jarrah Valleys South East	3	
17	Darling Plateau	Karri Valleys	3	
18	Darling Plateau	Wandoo Valleys North	3	
19	Darling Plateau	Powder Bark Wandoo Valleys	3	
20	Darling Plateau	Granite Outcrops	2	
21	Various Systems	Esturies / Open Water	0	
22	Collie Plain	Uplands	3	
23	Collie Plain	Depressions / Swamps	3	
24	Dandaragan Plateau	Uplands	3	
25	Dandaragan Plateau	Valleys	3	
26	Swan Coastal Plain	Uplands	3	
27	Swan Coastal Plain	Valleys	3	
28	Southern Plains	Jarrah	3	
29	Southern Plains	Karri	3	
30	Southern Plains	Heath / Sedgeland	3	
31	South Coast Dunes	South Coast Dunes	3	
32	Blackwood Plateau	Jarrah Uplands	3	
33	Blackwood Plateau	Karri Uplands	2	
34	Blackwood Plateau	Depressions / Swamps	3	
35	Blackwood Plateau	Valleys	3	
36	Margaret River Plateau	Jarrah Uplands	3	
37	Margaret River Plateau	Karri Uplands	2	
38	Margaret River Plateau	Jarrah Valleys	3	
39	Margaret River Plateau	Karri Valleys	2	
40	Lewin Naturalist Coast	Jarrah	3	
41	Lewin Naturalist Coast	Marri/Karri	1	
42	Lewin Naturalist Coast	Coast Heath	3	
43	Scott Coastal Plain	Uplands	3	
44	Scott Coastal Plain	Valleys / Swamps	3	
45	Redmond	Uplands	3	
46	Redmond	Valleys	3	
47	Unicup	Jarrah Uplands	3	
48	Unicup	Wandoo Uplands	3	
49	Unicup	Jarrah Valleys	3	
50	Unicup	Wandoo Valleys	3	
51	Unicup	Scrubland	3	
53	Darling Plateau	Wandoo Uplands South	3	
54	Darling Plateau	Wandoo Valleys South	3	

## Appendix 2b

Fauna Habitat ID	FDIS LAND SYSTEM	FDIS LANDSCAPE UNIT	SCORE	Origin
Australasian Little Grebe				
1	Darling Plateau	Jarrah Uplands North	0	
2	Darling Plateau	Jarrah Uplands East	0	
3	Darling Plateau	Jarrah Uplands South	0	
4	Darling Plateau	Jarrah Uplands South East	0	
5	Darling Plateau	Karri Uplands	0	
6	Darling Plateau	Wandoo Uplands North	0	
7	Darling Plateau	Powder Bark Uplands	0	
8	Darling Plateau	Scarp	0	
9	Darling Plateau	Depression / Swamps North	0	
10	Darling Plateau	Depressions / Swamps South	0	
11	Darling Plateau	Depressions / Swamps East	0	
12	Darling Plateau	Depressions / Swamps South East	0	
13	Darling Plateau	Jarrah Valleys North	0	
14	Darling Plateau	Jarrah Valleys East	0	
15	Darling Plateau	Jarrah Valleys South	0	
16	Darling Plateau	Jarrah Valleys South East	0	
17	Darling Plateau	Karri Valleys	0	
18	Darling Plateau	Wandoo Valleys North	0	
19	Darling Plateau	Powder Bark Wandoo Valleys	0	
20	Darling Plateau	Granite Outcrops	0	
21	Various Systems	Esturies / Open Water	3	
22	Collie Plain	Uplands	0	
23	Collie Plain	Depressions / Swamps	0	
24	Dandaragan Plateau	Uplands	0	
25	Dandaragan Plateau	Valleys	0	
26	Swan Coastal Plain	Uplands	0	
27	Swan Coastal Plain	Valleys	0	
28	Southern Plains	Jarrah	0	
29	Southern Plains	Karri	0	
30	Southern Plains	Heath / Sedgeland	0	
31	South Coast Dunes	South Coast Dunes	0	
32	Blackwood Plateau	Jarrah Uplands	0	
33	Blackwood Plateau	Karri Uplands	0	
34	Blackwood Plateau	Depressions / Swamps	0	
35	Blackwood Plateau	Valleys	0	
36	Margaret River Plateau	Jarrah Uplands	0	
37	Margaret River Plateau	Karri Uplands	0	
38	Margaret River Plateau	Jarrah Valleys	0	
39	Margaret River Plateau	Karri Valleys	0	
40	Lewin Naturalist Coast	Jarrah	0	
41	Lewin Naturalist Coast	Marri/Karri	0	
42	Lewin Naturalist Coast	Coast Heath	0	
43	Scott Coastal Plain	Uplands	0	
44	Scott Coastal Plain	Valleys / Swamps	0	
45	Redmond	Uplands	0	
46	Redmond	Valleys	0	
47	Unicup	Jarrah Uplands	0	
48	Unicup	Wandoo Uplands	0	
49	Unicup	Jarrah Valleys	0	
50	Unicup	Wandoo Valleys	0	
51	Unicup	Scrubland	0	
53	Darling Plateau	Wandoo Uplands South	0	
54	Darling Plateau	Wandoo Valleys South	0	

## Appendix 2b

Fauna Habitat ID	FDIS LAND SYSTEM	FDIS LANDSCAPE UNIT	SCORE	Origin
Hoary-headed Grebe				
1	Darling Plateau	Jarrah Uplands North	0	
2	Darling Plateau	Jarrah Uplands East	0	
3	Darling Plateau	Jarrah Uplands South	0	
4	Darling Plateau	Jarrah Uplands South East	0	
5	Darling Plateau	Karri Uplands	0	
6	Darling Plateau	Wandoo Uplands North	0	
7	Darling Plateau	Powder Bark Uplands	0	
8	Darling Plateau	Scarp	0	
9	Darling Plateau	Depression / Swamps North	0	
10	Darling Plateau	Depressions / Swamps South	0	
11	Darling Plateau	Depressions / Swamps East	0	
12	Darling Plateau	Depressions / Swamps South East	0	
13	Darling Plateau	Jarrah Valleys North	0	
14	Darling Plateau	Jarrah Valleys East	0	
15	Darling Plateau	Jarrah Valleys South	0	
16	Darling Plateau	Jarrah Valleys South East	0	
17	Darling Plateau	Karri Valleys	0	
18	Darling Plateau	Wandoo Valleys North	0	
19	Darling Plateau	Powder Bark Wandoo Valleys	0	
20	Darling Plateau	Granite Outcrops	0	
21	Various Systems	Esturies / Open Water	2	
22	Collie Plain	Uplands	0	
23	Collie Plain	Depressions / Swamps	0	
24	Dandaragan Plateau	Uplands	0	
25	Dandaragan Plateau	Valleys	0	
26	Swan Coastal Plain	Uplands	0	
27	Swan Coastal Plain	Valleys	0	
28	Southern Plains	Jarrah	0	
29	Southern Plains	Karri	0	
30	Southern Plains	Heath / Sedgeland	0	
31	South Coast Dunes	South Coast Dunes	0	
32	Blackwood Plateau	Jarrah Uplands	0	
33	Blackwood Plateau	Karri Uplands	0	
34	Blackwood Plateau	Depressions / Swamps	0	
35	Blackwood Plateau	Valleys	0	
36	Margaret River Plateau	Jarrah Uplands	0	
37	Margaret River Plateau	Karri Uplands	0	
38	Margaret River Plateau	Jarrah Valleys	0	
39	Margaret River Plateau	Karri Valleys	0	
40	Lewin Naturalist Coast	Jarrah	0	
41	Lewin Naturalist Coast	Marri/Karri	0	
42	Lewin Naturalist Coast	Coast Heath	0	
43	Scott Coastal Plain	Uplands	0	
44	Scott Coastal Plain	Valleys / Swamps	0	
45	Redmond	Uplands	0	
46	Redmond	Valleys	0	
47	Unicup	Jarrah Uplands	0	
48	Unicup	Wandoo Uplands	0	
49	Unicup	Jarrah Valleys	0	
50	Unicup	Wandoo Valleys	0	
51	Unicup	Scrubland	0	
53	Darling Plateau	Wandoo Uplands South	0	
54	Darling Plateau	Wandoo Valleys South	0	

## Appendix 2b

Fauna Habitat ID	FDIS LAND SYSTEM	FDIS LANDSCAPE UNIT	SCORE	Origin
Darter				
1	Darling Plateau	Jarrah Uplands North	0	
2	Darling Plateau	Jarrah Uplands East	0	
3	Darling Plateau	Jarrah Uplands South	0	
4	Darling Plateau	Jarrah Uplands South East	0	
5	Darling Plateau	Karri Uplands	0	
6	Darling Plateau	Wandoo Uplands North	0	
7	Darling Plateau	Powder Bark Uplands	0	
8	Darling Plateau	Scarp	0	
9	Darling Plateau	Depression / Swamps North	0	
10	Darling Plateau	Depressions / Swamps South	0	
11	Darling Plateau	Depressions / Swamps East	0	
12	Darling Plateau	Depressions / Swamps South East	0	
13	Darling Plateau	Jarrah Valleys North	0	
14	Darling Plateau	Jarrah Valleys East	0	
15	Darling Plateau	Jarrah Valleys South	0	
16	Darling Plateau	Jarrah Valleys South East	0	
17	Darling Plateau	Karri Valleys	0	
18	Darling Plateau	Wandoo Valleys North	0	
19	Darling Plateau	Powder Bark Wandoo Valleys	0	
20	Darling Plateau	Granite Outcrops	0	
21	Various Systems	Esturies / Open Water	2	
22	Collie Plain	Uplands	0	
23	Collie Plain	Depressions / Swamps	0	
24	Dandaragan Plateau	Uplands	0	
25	Dandaragan Plateau	Valleys	0	
26	Swan Coastal Plain	Uplands	0	
27	Swan Coastal Plain	Valleys	0	
28	Southern Plains	Jarrah	0	
29	Southern Plains	Karri	0	
30	Southern Plains	Heath / Sedgeland	0	
31	South Coast Dunes	South Coast Dunes	0	
32	Blackwood Plateau	Jarrah Uplands	0	
33	Blackwood Plateau	Karri Uplands	0	
34	Blackwood Plateau	Depressions / Swamps	0	
35	Blackwood Plateau	Valleys	0	
36	Margaret River Plateau	Jarrah Uplands	0	
37	Margaret River Plateau	Karri Uplands	0	
38	Margaret River Plateau	Jarrah Valleys	0	
39	Margaret River Plateau	Karri Valleys	0	
40	Lewin Naturalist Coast	Jarrah	0	
41	Lewin Naturalist Coast	Marri/Karri	0	
42	Lewin Naturalist Coast	Coast Heath	0	
43	Scott Coastal Plain	Uplands	0	
44	Scott Coastal Plain	Valleys / Swamps	0	
45	Redmond	Uplands	0	
46	Redmond	Valleys	0	
47	Unicup	Jarrah Uplands	0	
48	Unicup	Wandoo Uplands	0	
49	Unicup	Jarrah Valleys	0	
50	Unicup	Wandoo Valleys	0	
51	Unicup	Scrubland	0	
53	Darling Plateau	Wandoo Uplands South	0	
54	Darling Plateau	Wandoo Valleys South	0	

## Appendix 2b

Fauna Habitat ID	FDIS LAND SYSTEM	FDIS LANDSCAPE UNIT	SCORE	Origin
Little black Cormorant				
1	Darling Plateau	Jarrah Uplands North	0	
2	Darling Plateau	Jarrah Uplands East	0	
3	Darling Plateau	Jarrah Uplands South	0	
4	Darling Plateau	Jarrah Uplands South East	0	
5	Darling Plateau	Karri Uplands	0	
6	Darling Plateau	Wandoo Uplands North	0	
7	Darling Plateau	Powder Bark Uplands	0	
8	Darling Plateau	Scarp	0	
9	Darling Plateau	Depression / Swamps North	0	
10	Darling Plateau	Depressions / Swamps South	0	
11	Darling Plateau	Depressions / Swamps East	0	
12	Darling Plateau	Depressions / Swamps South East	0	
13	Darling Plateau	Jarrah Valleys North	0	
14	Darling Plateau	Jarrah Valleys East	0	
15	Darling Plateau	Jarrah Valleys South	0	
16	Darling Plateau	Jarrah Valleys South East	0	
17	Darling Plateau	Karri Valleys	0	
18	Darling Plateau	Wandoo Valleys North	0	
19	Darling Plateau	Powder Bark Wandoo Valleys	0	
20	Darling Plateau	Granite Outcrops	0	
21	Various Systems	Esturies / Open Water	2	
22	Collie Plain	Uplands	0	
23	Collie Plain	Depressions / Swamps	0	
24	Dandaragan Plateau	Uplands	0	
25	Dandaragan Plateau	Valleys	0	
26	Swan Coastal Plain	Uplands	0	
27	Swan Coastal Plain	Valleys	0	
28	Southern Plains	Jarrah	0	
29	Southern Plains	Karri	0	
30	Southern Plains	Heath / Sedgeland	0	
31	South Coast Dunes	South Coast Dunes	0	
32	Blackwood Plateau	Jarrah Uplands	0	
33	Blackwood Plateau	Karri Uplands	0	
34	Blackwood Plateau	Depressions / Swamps	0	
35	Blackwood Plateau	Valleys	0	
36	Margaret River Plateau	Jarrah Uplands	0	
37	Margaret River Plateau	Karri Uplands	0	
38	Margaret River Plateau	Jarrah Valleys	0	
39	Margaret River Plateau	Karri Valleys	0	
40	Lewin Naturalist Coast	Jarrah	0	
41	Lewin Naturalist Coast	Marri/Karri	0	
42	Lewin Naturalist Coast	Coast Heath	0	
43	Scott Coastal Plain	Uplands	0	
44	Scott Coastal Plain	Valleys / Swamps	0	
45	Redmond	Uplands	0	
46	Redmond	Valleys	0	
47	Unicup	Jarrah Uplands	0	
48	Unicup	Wandoo Uplands	0	
49	Unicup	Jarrah Valleys	0	
50	Unicup	Wandoo Valleys	0	
51	Unicup	Scrubland	0	
53	Darling Plateau	Wandoo Uplands South	0	
54	Darling Plateau	Wandoo Valleys South	0	

## Appendix 2b

Fauna Habitat ID	FDIS LAND SYSTEM	FDIS LANDSCAPE UNIT	SCORE	Origin
Little Pied Cormorant				
1	Darling Plateau	Jarrah Uplands North	0	
2	Darling Plateau	Jarrah Uplands East	0	
3	Darling Plateau	Jarrah Uplands South	0	
4	Darling Plateau	Jarrah Uplands South East	0	
5	Darling Plateau	Karri Uplands	0	
6	Darling Plateau	Wandoo Uplands North	0	
7	Darling Plateau	Powder Bark Uplands	0	
8	Darling Plateau	Scarp	0	
9	Darling Plateau	Depression / Swamps North	0	
10	Darling Plateau	Depressions / Swamps South	0	
11	Darling Plateau	Depressions / Swamps East	0	
12	Darling Plateau	Depressions / Swamps South East	0	
13	Darling Plateau	Jarrah Valleys North	0	
14	Darling Plateau	Jarrah Valleys East	0	
15	Darling Plateau	Jarrah Valleys South	0	
16	Darling Plateau	Jarrah Valleys South East	0	
17	Darling Plateau	Karri Valleys	0	
18	Darling Plateau	Wandoo Valleys North	0	
19	Darling Plateau	Powder Bark Wandoo Valleys	0	
20	Darling Plateau	Granite Outcrops	0	
21	Various Systems	Esturies / Open Water	2	
22	Collie Plain	Uplands	0	
23	Collie Plain	Depressions / Swamps	0	
24	Dandaragan Plateau	Uplands	0	
25	Dandaragan Plateau	Valleys	0	
26	Swan Coastal Plain	Uplands	0	
27	Swan Coastal Plain	Valleys	0	
28	Southern Plains	Jarrah	0	
29	Southern Plains	Karri	0	
30	Southern Plains	Heath / Sedgeland	0	
31	South Coast Dunes	South Coast Dunes	0	
32	Blackwood Plateau	Jarrah Uplands	0	
33	Blackwood Plateau	Karri Uplands	0	
34	Blackwood Plateau	Depressions / Swamps	0	
35	Blackwood Plateau	Valleys	0	
36	Margaret River Plateau	Jarrah Uplands	0	
37	Margaret River Plateau	Karri Uplands	0	
38	Margaret River Plateau	Jarrah Valleys	0	
39	Margaret River Plateau	Karri Valleys	0	
40	Lewin Naturalist Coast	Jarrah	0	
41	Lewin Naturalist Coast	Marri/Karri	0	
42	Lewin Naturalist Coast	Coast Heath	0	
43	Scott Coastal Plain	Uplands	0	
44	Scott Coastal Plain	Valleys / Swamps	0	
45	Redmond	Uplands	0	
46	Redmond	Valleys	0	
47	Unicup	Jarrah Uplands	0	
48	Unicup	Wandoo Uplands	0	
49	Unicup	Jarrah Valleys	0	
50	Unicup	Wandoo Valleys	0	
51	Unicup	Scrubland	0	
53	Darling Plateau	Wandoo Uplands South	0	
54	Darling Plateau	Wandoo Valleys South	0	



## Appendix 2b

Fauna Habitat ID	FDIS LAND SYSTEM	FDIS LANDSCAPE UNIT	SCORE	Origin
Pacific Heron				
1	Darling Plateau	Jarrah Uplands North	0	
2	Darling Plateau	Jarrah Uplands East	0	
3	Darling Plateau	Jarrah Uplands South	0	
4	Darling Plateau	Jarrah Uplands South East	0	
5	Darling Plateau	Karri Uplands	0	
6	Darling Plateau	Wandoo Uplands North	0	
7	Darling Plateau	Powder Bark Uplands	0	
8	Darling Plateau	Scarp	0	
9	Darling Plateau	Depression / Swamps North	0	
10	Darling Plateau	Depressions / Swamps South	0	
11	Darling Plateau	Depressions / Swamps East	0	
12	Darling Plateau	Depressions / Swamps South East	0	
13	Darling Plateau	Jarrah Valleys North	0	
14	Darling Plateau	Jarrah Valleys East	0	
15	Darling Plateau	Jarrah Valleys South	0	
16	Darling Plateau	Jarrah Valleys South East	0	
17	Darling Plateau	Karri Valleys	0	
18	Darling Plateau	Wandoo Valleys North	0	
19	Darling Plateau	Powder Bark Wandoo Valleys	0	
20	Darling Plateau	Granite Outcrops	0	
21	Various Systems	Esturies / Open Water	2	
22	Collie Plain	Uplands	0	
23	Collie Plain	Depressions / Swamps	0	
24	Dandaragan Plateau	Uplands	0	
25	Dandaragan Plateau	Valleys	0	
26	Swan Coastal Plain	Uplands	0	
27	Swan Coastal Plain	Valleys	0	
28	Southern Plains	Jarrah	0	
29	Southern Plains	Karri	0	
30	Southern Plains	Heath / Sedgeland	0	
31	South Coast Dunes	South Coast Dunes	0	
32	Blackwood Plateau	Jarrah Uplands	0	
33	Blackwood Plateau	Karri Uplands	0	
34	Blackwood Plateau	Depressions / Swamps	0	
35	Blackwood Plateau	Valleys	0	
36	Margaret River Plateau	Jarrah Uplands	0	
37	Margaret River Plateau	Karri Uplands	0	
38	Margaret River Plateau	Jarrah Valleys	0	
39	Margaret River Plateau	Karri Valleys	0	
40	Lewin Naturalist Coast	Jarrah	0	
41	Lewin Naturalist Coast	Marri/Karri	0	
42	Lewin Naturalist Coast	Coast Heath	0	
43	Scott Coastal Plain	Uplands	0	
44	Scott Coastal Plain	Valleys / Swamps	0	
45	Redmond	Uplands	0	
46	Redmond	Valleys	0	
47	Unicup	Jarrah Uplands	0	
48	Unicup	Wandoo Uplands	0	
49	Unicup	Jarrah Valleys	0	
50	Unicup	Wandoo Valleys	0	
51	Unicup	Scrubland	0	
53	Darling Plateau	Wandoo Uplands South	0	
54	Darling Plateau	Wandoo Valleys South	0	

## Appendix 2b

Fauna Habitat ID	FDIS LAND SYSTEM	FDIS LANDSCAPE UNIT	SCORE	Origin
White-faced Heron				
1	Darling Plateau	Jarrah Uplands North	0	
2	Darling Plateau	Jarrah Uplands East	0	
3	Darling Plateau	Jarrah Uplands South	0	
4	Darling Plateau	Jarrah Uplands South East	0	
5	Darling Plateau	Karri Uplands	0	
6	Darling Plateau	Wandoo Uplands North	0	
7	Darling Plateau	Powder Bark Uplands	0	
8	Darling Plateau	Scarp	0	
9	Darling Plateau	Depression / Swamps North	2	
10	Darling Plateau	Depressions / Swamps South	2	
11	Darling Plateau	Depressions / Swamps East	1	
12	Darling Plateau	Depressions / Swamps South East	2	
13	Darling Plateau	Jarrah Valleys North	0	
14	Darling Plateau	Jarrah Valleys East	0	
15	Darling Plateau	Jarrah Valleys South	0	
16	Darling Plateau	Jarrah Valleys South East	0	
17	Darling Plateau	Karri Valleys	0	
18	Darling Plateau	Wandoo Valleys North	0	
19	Darling Plateau	Powder Bark Wandoo Valleys	0	
20	Darling Plateau	Granite Outcrops	0	
21	Various Systems	Esturies / Open Water	3	
22	Collie Plain	Uplands	0	
23	Collie Plain	Depressions / Swamps	2	
24	Dandaragan Plateau	Uplands	0	
25	Dandaragan Plateau	Valleys	0	
26	Swan Coastal Plain	Uplands	0	
27	Swan Coastal Plain	Valleys	0	
28	Southern Plains	Jarrah	0	
29	Southern Plains	Karri	0	
30	Southern Plains	Heath / Sedgeland	0	
31	South Coast Dunes	South Coast Dunes	0	
32	Blackwood Plateau	Jarrah Uplands	0	
33	Blackwood Plateau	Karri Uplands	0	
34	Blackwood Plateau	Depressions / Swamps	2	
35	Blackwood Plateau	Valleys	0	
36	Margaret River Plateau	Jarrah Uplands	0	
37	Margaret River Plateau	Karri Uplands	0	
38	Margaret River Plateau	Jarrah Valleys	0	
39	Margaret River Plateau	Karri Valleys	0	
40	Lewin Naturalist Coast	Jarrah	0	
41	Lewin Naturalist Coast	Marri/Karri	0	
42	Lewin Naturalist Coast	Coast Heath	0	
43	Scott Coastal Plain	Uplands	0	
44	Scott Coastal Plain	Valleys / Swamps	2	
45	Redmond	Uplands	0	
46	Redmond	Valleys	2	
47	Unicup	Jarrah Uplands	0	
48	Unicup	Wandoo Uplands	0	
49	Unicup	Jarrah Valleys	0	
50	Unicup	Wandoo Valleys	0	
51	Unicup	Scrubland	0	
53	Darling Plateau	Wandoo Uplands South	0	
54	Darling Plateau	Wandoo Valleys South	0	

## Appendix 2b

Fauna Habitat ID	FDIS LAND SYSTEM	FDIS LANDSCAPE UNIT	SCORE	Origin
Great Egret				
1	Darling Plateau	Jarrah Uplands North	0	
2	Darling Plateau	Jarrah Uplands East	0	
3	Darling Plateau	Jarrah Uplands South	0	
4	Darling Plateau	Jarrah Uplands South East	0	
5	Darling Plateau	Karri Uplands	0	
6	Darling Plateau	Wandoo Uplands North	0	
7	Darling Plateau	Powder Bark Uplands	0	
8	Darling Plateau	Scarp	0	
9	Darling Plateau	Depression / Swamps North	0	
10	Darling Plateau	Depressions / Swamps South	0	
11	Darling Plateau	Depressions / Swamps East	0	
12	Darling Plateau	Depressions / Swamps South East	0	
13	Darling Plateau	Jarrah Valleys North	0	
14	Darling Plateau	Jarrah Valleys East	0	
15	Darling Plateau	Jarrah Valleys South	0	
16	Darling Plateau	Jarrah Valleys South East	0	
17	Darling Plateau	Karri Valleys	0	
18	Darling Plateau	Wandoo Valleys North	0	
19	Darling Plateau	Powder Bark Wandoo Valleys	0	
20	Darling Plateau	Granite Outcrops	0	
21	Various Systems	Esturies / Open Water	1	
22	Collie Plain	Uplands	0	
23	Collie Plain	Depressions / Swamps	0	
24	Dandaragan Plateau	Uplands	0	
25	Dandaragan Plateau	Valleys	0	
26	Swan Coastal Plain	Uplands	0	
27	Swan Coastal Plain	Valleys	0	
28	Southern Plains	Jarrah	0	
29	Southern Plains	Karri	0	
30	Southern Plains	Heath / Sedgeland	0	
31	South Coast Dunes	South Coast Dunes	0	
32	Blackwood Plateau	Jarrah Uplands	0	
33	Blackwood Plateau	Karri Uplands	0	
34	Blackwood Plateau	Depressions / Swamps	0	
35	Blackwood Plateau	Valleys	0	
36	Margaret River Plateau	Jarrah Uplands	0	
37	Margaret River Plateau	Karri Uplands	0	
38	Margaret River Plateau	Jarrah Valleys	0	
39	Margaret River Plateau	Karri Valleys	0	
40	Lewin Naturalist Coast	Jarrah	0	
41	Lewin Naturalist Coast	Marri/Karri	0	
42	Lewin Naturalist Coast	Coast Heath	0	
43	Scott Coastal Plain	Uplands	0	
44	Scott Coastal Plain	Valleys / Swamps	0	
45	Redmond	Uplands	0	
46	Redmond	Valleys	0	
47	Unicup	Jarrah Uplands	0	
48	Unicup	Wandoo Uplands	0	
49	Unicup	Jarrah Valleys	0	
50	Unicup	Wandoo Valleys	0	
51	Unicup	Scrubland	0	
53	Darling Plateau	Wandoo Uplands South	0	
54	Darling Plateau	Wandoo Valleys South	0	

## Appendix 2b

Fauna Habitat ID	FDIS LAND SYSTEM	FDIS LANDSCAPE UNIT	SCORE	Origin
Rufous Night Heron				
1	Darling Plateau	Jarrah Uplands North	0	
2	Darling Plateau	Jarrah Uplands East	0	
3	Darling Plateau	Jarrah Uplands South	0	
4	Darling Plateau	Jarrah Uplands South East	0	
5	Darling Plateau	Karri Uplands	0	
6	Darling Plateau	Wandoo Uplands North	0	
7	Darling Plateau	Powder Bark Uplands	0	
8	Darling Plateau	Scarp	0	
9	Darling Plateau	Depression / Swamps North	0	
10	Darling Plateau	Depressions / Swamps South	1	
11	Darling Plateau	Depressions / Swamps East	1	
12	Darling Plateau	Depressions / Swamps South East	1	
13	Darling Plateau	Jarrah Valleys North	2	
14	Darling Plateau	Jarrah Valleys East	1	
15	Darling Plateau	Jarrah Valleys South	2	
16	Darling Plateau	Jarrah Valleys South East	1	
17	Darling Plateau	Karri Valleys	2	
18	Darling Plateau	Wandoo Valleys North	0	
19	Darling Plateau	Powder Bark Wandoo Valleys	0	
20	Darling Plateau	Granite Outcrops	0	
21	Various Systems	Esturies / Open Water	2	
22	Collie Plain	Uplands	0	
23	Collie Plain	Depressions / Swamps	1	
24	Dandaragan Plateau	Uplands	0	
25	Dandaragan Plateau	Valleys	1	
26	Swan Coastal Plain	Uplands	0	
27	Swan Coastal Plain	Valleys	1	
28	Southern Plains	Jarrah	0	
29	Southern Plains	Karri	0	
30	Southern Plains	Heath / Sedgeland	0	
31	South Coast Dunes	South Coast Dunes	0	
32	Blackwood Plateau	Jarrah Uplands	0	
33	Blackwood Plateau	Karri Uplands	0	
34	Blackwood Plateau	Depressions / Swamps	0	
35	Blackwood Plateau	Valleys	2	
36	Margaret River Plateau	Jarrah Uplands	0	
37	Margaret River Plateau	Karri Uplands	0	
38	Margaret River Plateau	Jarrah Valleys	2	
39	Margaret River Plateau	Karri Valleys	2	
40	Lewin Naturalist Coast	Jarrah	0	
41	Lewin Naturalist Coast	Marri/Karri	0	
42	Lewin Naturalist Coast	Coast Heath	0	
43	Scott Coastal Plain	Uplands	0	
44	Scott Coastal Plain	Valleys / Swamps	0	
45	Redmond	Uplands	0	
46	Redmond	Valleys	2	
47	Unicup	Jarrah Uplands	0	
48	Unicup	Wandoo Uplands	0	
49	Unicup	Jarrah Valleys	0	
50	Unicup	Wandoo Valleys	0	
51	Unicup	Scrubland	0	
53	Darling Plateau	Wandoo Uplands South	0	
54	Darling Plateau	Wandoo Valleys South	0	

## Appendix 2b

Fauna Habitat ID	FDIS LAND SYSTEM	FDIS LANDSCAPE UNIT	SCORE	Origin
Little Bittern				
1	Darling Plateau	Jarrah Uplands North	0	
2	Darling Plateau	Jarrah Uplands East	0	
3	Darling Plateau	Jarrah Uplands South	0	
4	Darling Plateau	Jarrah Uplands South East	0	
5	Darling Plateau	Karri Uplands	0	
6	Darling Plateau	Wandoo Uplands North	0	
7	Darling Plateau	Powder Bark Uplands	0	
8	Darling Plateau	Scarp	0	
9	Darling Plateau	Depression / Swamps North	0	
10	Darling Plateau	Depressions / Swamps South	0	
11	Darling Plateau	Depressions / Swamps East	0	
12	Darling Plateau	Depressions / Swamps South East	0	
13	Darling Plateau	Jarrah Valleys North	0	
14	Darling Plateau	Jarrah Valleys East	0	
15	Darling Plateau	Jarrah Valleys South	0	
16	Darling Plateau	Jarrah Valleys South East	0	
17	Darling Plateau	Karri Valleys	0	
18	Darling Plateau	Wandoo Valleys North	0	
19	Darling Plateau	Powder Bark Wandoo Valleys	0	
20	Darling Plateau	Granite Outcrops	0	
21	Various Systems	Esturies / Open Water	1	
22	Collie Plain	Uplands	0	
23	Collie Plain	Depressions / Swamps	0	
24	Dandaragan Plateau	Uplands	0	
25	Dandaragan Plateau	Valleys	0	
26	Swan Coastal Plain	Uplands	0	
27	Swan Coastal Plain	Valleys	0	
28	Southern Plains	Jarrah	0	
29	Southern Plains	Karri	0	
30	Southern Plains	Heath / Sedgeland	0	
31	South Coast Dunes	South Coast Dunes	0	
32	Blackwood Plateau	Jarrah Uplands	0	
33	Blackwood Plateau	Karri Uplands	0	
34	Blackwood Plateau	Depressions / Swamps	0	
35	Blackwood Plateau	Valleys	0	
36	Margaret River Plateau	Jarrah Uplands	0	
37	Margaret River Plateau	Karri Uplands	0	
38	Margaret River Plateau	Jarrah Valleys	0	
39	Margaret River Plateau	Karri Valleys	0	
40	Lewin Naturalist Coast	Jarrah	0	
41	Lewin Naturalist Coast	Marri/Karri	0	
42	Lewin Naturalist Coast	Coast Heath	0	
43	Scott Coastal Plain	Uplands	0	
44	Scott Coastal Plain	Valleys / Swamps	0	
45	Redmond	Uplands	0	
46	Redmond	Valleys	0	
47	Unicup	Jarrah Uplands	0	
48	Unicup	Wandoo Uplands	0	
49	Unicup	Jarrah Valleys	0	
50	Unicup	Wandoo Valleys	0	
51	Unicup	Scrubland	0	
53	Darling Plateau	Wandoo Uplands South	0	
54	Darling Plateau	Wandoo Valleys South	0	

## Appendix 2b

Fauna Habitat ID	FDIS LAND SYSTEM	FDIS LANDSCAPE UNIT	SCORE	Origin
Black Bittern				
1	Darling Plateau	Jarrah Uplands North	0	
2	Darling Plateau	Jarrah Uplands East	0	
3	Darling Plateau	Jarrah Uplands South	0	
4	Darling Plateau	Jarrah Uplands South East	0	
5	Darling Plateau	Karri Uplands	0	
6	Darling Plateau	Wandoo Uplands North	0	
7	Darling Plateau	Powder Bark Uplands	0	
8	Darling Plateau	Scarp	0	
9	Darling Plateau	Depression / Swamps North	0	
10	Darling Plateau	Depressions / Swamps South	0	
11	Darling Plateau	Depressions / Swamps East	0	
12	Darling Plateau	Depressions / Swamps South East	0	
13	Darling Plateau	Jarrah Valleys North	0	
14	Darling Plateau	Jarrah Valleys East	0	
15	Darling Plateau	Jarrah Valleys South	0	
16	Darling Plateau	Jarrah Valleys South East	0	
17	Darling Plateau	Karri Valleys	0	
18	Darling Plateau	Wandoo Valleys North	0	
19	Darling Plateau	Powder Bark Wandoo Valleys	0	
20	Darling Plateau	Granite Outcrops	0	
21	Various Systems	Esturies / Open Water	1	
22	Collie Plain	Uplands	0	
23	Collie Plain	Depressions / Swamps	0	
24	Dandaragan Plateau	Uplands	0	
25	Dandaragan Plateau	Valleys	0	
26	Swan Coastal Plain	Uplands	0	
27	Swan Coastal Plain	Valleys	0	
28	Southern Plains	Jarrah	0	
29	Southern Plains	Karri	0	
30	Southern Plains	Heath / Sedgeland	0	
31	South Coast Dunes	South Coast Dunes	0	
32	Blackwood Plateau	Jarrah Uplands	0	
33	Blackwood Plateau	Karri Uplands	0	
34	Blackwood Plateau	Depressions / Swamps	0	
35	Blackwood Plateau	Valleys	0	
36	Margaret River Plateau	Jarrah Uplands	0	
37	Margaret River Plateau	Karri Uplands	0	
38	Margaret River Plateau	Jarrah Valleys	0	
39	Margaret River Plateau	Karri Valleys	0	
40	Lewin Naturalist Coast	Jarrah	0	
41	Lewin Naturalist Coast	Marri/Karri	0	
42	Lewin Naturalist Coast	Coast Heath	0	
43	Scott Coastal Plain	Uplands	0	
44	Scott Coastal Plain	Valleys / Swamps	0	
45	Redmond	Uplands	0	
46	Redmond	Valleys	0	
47	Unicup	Jarrah Uplands	0	
48	Unicup	Wandoo Uplands	0	
49	Unicup	Jarrah Valleys	0	
50	Unicup	Wandoo Valleys	0	
51	Unicup	Scrubland	0	
53	Darling Plateau	Wandoo Uplands South	0	
54	Darling Plateau	Wandoo Valleys South	0	

## Appendix 2b

Fauna Habitat ID	FDIS LAND SYSTEM	FDIS LANDSCAPE UNIT	SCORE	Origin
Australasian Bittern				
1	Darling Plateau	Jarrah Uplands North	0	
2	Darling Plateau	Jarrah Uplands East	0	
3	Darling Plateau	Jarrah Uplands South	0	
4	Darling Plateau	Jarrah Uplands South East	0	
5	Darling Plateau	Karri Uplands	0	
6	Darling Plateau	Wandoo Uplands North	0	
7	Darling Plateau	Powder Bark Uplands	0	
8	Darling Plateau	Scarp	0	
9	Darling Plateau	Depression / Swamps North	0	
10	Darling Plateau	Depressions / Swamps South	0	
11	Darling Plateau	Depressions / Swamps East	0	
12	Darling Plateau	Depressions / Swamps South East	0	
13	Darling Plateau	Jarrah Valleys North	0	
14	Darling Plateau	Jarrah Valleys East	0	
15	Darling Plateau	Jarrah Valleys South	0	
16	Darling Plateau	Jarrah Valleys South East	0	
17	Darling Plateau	Karri Valleys	0	
18	Darling Plateau	Wandoo Valleys North	0	
19	Darling Plateau	Powder Bark Wandoo Valleys	0	
20	Darling Plateau	Granite Outcrops	0	
21	Various Systems	Esturies / Open Water	1	
22	Collie Plain	Uplands	0	
23	Collie Plain	Depressions / Swamps	0	
24	Dandaragan Plateau	Uplands	0	
25	Dandaragan Plateau	Valleys	0	
26	Swan Coastal Plain	Uplands	0	
27	Swan Coastal Plain	Valleys	0	
28	Southern Plains	Jarrah	0	
29	Southern Plains	Karri	0	
30	Southern Plains	Heath / Sedgeland	0	
31	South Coast Dunes	South Coast Dunes	0	
32	Blackwood Plateau	Jarrah Uplands	0	
33	Blackwood Plateau	Karri Uplands	0	
34	Blackwood Plateau	Depressions / Swamps	0	
35	Blackwood Plateau	Valleys	0	
36	Margaret River Plateau	Jarrah Uplands	0	
37	Margaret River Plateau	Karri Uplands	0	
38	Margaret River Plateau	Jarrah Valleys	0	
39	Margaret River Plateau	Karri Valleys	0	
40	Lewin Naturalist Coast	Jarrah	0	
41	Lewin Naturalist Coast	Marri/Karri	0	
42	Lewin Naturalist Coast	Coast Heath	0	
43	Scott Coastal Plain	Uplands	0	
44	Scott Coastal Plain	Valleys / Swamps	0	
45	Redmond	Uplands	0	
46	Redmond	Valleys	0	
47	Unicup	Jarrah Uplands	0	
48	Unicup	Wandoo Uplands	0	
49	Unicup	Jarrah Valleys	0	
50	Unicup	Wandoo Valleys	0	
51	Unicup	Scrubland	0	
53	Darling Plateau	Wandoo Uplands South	0	
54	Darling Plateau	Wandoo Valleys South	0	

## Appendix 2b

Fauna Habitat ID	FDIS LAND SYSTEM	FDIS LANDSCAPE UNIT	SCORE	Origin
Glossy Ibis				
1	Darling Plateau	Jarrah Uplands North	0	
2	Darling Plateau	Jarrah Uplands East	0	
3	Darling Plateau	Jarrah Uplands South	0	
4	Darling Plateau	Jarrah Uplands South East	0	
5	Darling Plateau	Karri Uplands	0	
6	Darling Plateau	Wandoo Uplands North	0	
7	Darling Plateau	Powder Bark Uplands	0	
8	Darling Plateau	Scarp	0	
9	Darling Plateau	Depression / Swamps North	0	
10	Darling Plateau	Depressions / Swamps South	0	
11	Darling Plateau	Depressions / Swamps East	0	
12	Darling Plateau	Depressions / Swamps South East	0	
13	Darling Plateau	Jarrah Valleys North	0	
14	Darling Plateau	Jarrah Valleys East	0	
15	Darling Plateau	Jarrah Valleys South	0	
16	Darling Plateau	Jarrah Valleys South East	0	
17	Darling Plateau	Karri Valleys	0	
18	Darling Plateau	Wandoo Valleys North	0	
19	Darling Plateau	Powder Bark Wandoo Valleys	0	
20	Darling Plateau	Granite Outcrops	0	
21	Various Systems	Esturies / Open Water	1	
22	Collie Plain	Uplands	0	
23	Collie Plain	Depressions / Swamps	0	
24	Dandaragan Plateau	Uplands	0	
25	Dandaragan Plateau	Valleys	0	
26	Swan Coastal Plain	Uplands	0	
27	Swan Coastal Plain	Valleys	0	
28	Southern Plains	Jarrah	0	
29	Southern Plains	Karri	0	
30	Southern Plains	Heath / Sedgeland	0	
31	South Coast Dunes	South Coast Dunes	0	
32	Blackwood Plateau	Jarrah Uplands	0	
33	Blackwood Plateau	Karri Uplands	0	
34	Blackwood Plateau	Depressions / Swamps	0	
35	Blackwood Plateau	Valleys	0	
36	Margaret River Plateau	Jarrah Uplands	0	
37	Margaret River Plateau	Karri Uplands	0	
38	Margaret River Plateau	Jarrah Valleys	0	
39	Margaret River Plateau	Karri Valleys	0	
40	Lewin Naturalist Coast	Jarrah	0	
41	Lewin Naturalist Coast	Marri/Karri	0	
42	Lewin Naturalist Coast	Coast Heath	0	
43	Scott Coastal Plain	Uplands	0	
44	Scott Coastal Plain	Valleys / Swamps	0	
45	Redmond	Uplands	0	
46	Redmond	Valleys	0	
47	Unicup	Jarrah Uplands	0	
48	Unicup	Wandoo Uplands	0	
49	Unicup	Jarrah Valleys	0	
50	Unicup	Wandoo Valleys	0	
51	Unicup	Scrubland	0	
53	Darling Plateau	Wandoo Uplands South	0	
54	Darling Plateau	Wandoo Valleys South	0	



## Appendix 2b

Fauna Habitat ID	FDIS LAND SYSTEM	FDIS LANDSCAPE UNIT	SCORE	Origin
Australian White Ibis				
1	Darling Plateau	Jarrah Uplands North	0	
2	Darling Plateau	Jarrah Uplands East	0	
3	Darling Plateau	Jarrah Uplands South	0	
4	Darling Plateau	Jarrah Uplands South East	0	
5	Darling Plateau	Karri Uplands	0	
6	Darling Plateau	Wandoo Uplands North	0	
7	Darling Plateau	Powder Bark Uplands	0	
8	Darling Plateau	Scarp	0	
9	Darling Plateau	Depression / Swamps North	0	
10	Darling Plateau	Depressions / Swamps South	0	
11	Darling Plateau	Depressions / Swamps East	0	
12	Darling Plateau	Depressions / Swamps South East	0	
13	Darling Plateau	Jarrah Valleys North	0	
14	Darling Plateau	Jarrah Valleys East	0	
15	Darling Plateau	Jarrah Valleys South	0	
16	Darling Plateau	Jarrah Valleys South East	0	
17	Darling Plateau	Karri Valleys	0	
18	Darling Plateau	Wandoo Valleys North	0	
19	Darling Plateau	Powder Bark Wandoo Valleys	0	
20	Darling Plateau	Granite Outcrops	0	
21	Various Systems	Esturies / Open Water	1	
22	Collie Plain	Uplands	0	
23	Collie Plain	Depressions / Swamps	0	
24	Dandaragan Plateau	Uplands	0	
25	Dandaragan Plateau	Valleys	0	
26	Swan Coastal Plain	Uplands	0	
27	Swan Coastal Plain	Valleys	0	
28	Southern Plains	Jarrah	0	
29	Southern Plains	Karri	0	
30	Southern Plains	Heath / Sedgeland	0	
31	South Coast Dunes	South Coast Dunes	0	
32	Blackwood Plateau	Jarrah Uplands	0	
33	Blackwood Plateau	Karri Uplands	0	
34	Blackwood Plateau	Depressions / Swamps	0	
35	Blackwood Plateau	Valleys	0	
36	Margaret River Plateau	Jarrah Uplands	0	
37	Margaret River Plateau	Karri Uplands	0	
38	Margaret River Plateau	Jarrah Valleys	0	
39	Margaret River Plateau	Karri Valleys	0	
40	Lewin Naturalist Coast	Jarrah	0	
41	Lewin Naturalist Coast	Marri/Karri	0	
42	Lewin Naturalist Coast	Coast Heath	0	
43	Scott Coastal Plain	Uplands	0	
44	Scott Coastal Plain	Valleys / Swamps	0	
45	Redmond	Uplands	0	
46	Redmond	Valleys	0	
47	Unicup	Jarrah Uplands	0	
48	Unicup	Wandoo Uplands	0	
49	Unicup	Jarrah Valleys	0	
50	Unicup	Wandoo Valleys	0	
51	Unicup	Scrubland	0	
53	Darling Plateau	Wandoo Uplands South	0	
54	Darling Plateau	Wandoo Valleys South	0	

## Appendix 2b

Fauna Habitat ID	FDIS LAND SYSTEM	FDIS LANDSCAPE UNIT	SCORE	Origin
Straw-necked Ibis				
1	Darling Plateau	Jarrah Uplands North	0	
2	Darling Plateau	Jarrah Uplands East	0	
3	Darling Plateau	Jarrah Uplands South	0	
4	Darling Plateau	Jarrah Uplands South East	0	
5	Darling Plateau	Karri Uplands	0	
6	Darling Plateau	Wandoo Uplands North	0	
7	Darling Plateau	Powder Bark Uplands	0	
8	Darling Plateau	Scarp	0	
9	Darling Plateau	Depression / Swamps North	0	
10	Darling Plateau	Depressions / Swamps South	0	
11	Darling Plateau	Depressions / Swamps East	0	
12	Darling Plateau	Depressions / Swamps South East	0	
13	Darling Plateau	Jarrah Valleys North	0	
14	Darling Plateau	Jarrah Valleys East	0	
15	Darling Plateau	Jarrah Valleys South	0	
16	Darling Plateau	Jarrah Valleys South East	0	
17	Darling Plateau	Karri Valleys	0	
18	Darling Plateau	Wandoo Valleys North	0	
19	Darling Plateau	Powder Bark Wandoo Valleys	0	
20	Darling Plateau	Granite Outcrops	0	
21	Various Systems	Esturies / Open Water	1	
22	Collie Plain	Uplands	0	
23	Collie Plain	Depressions / Swamps	0	
24	Dandaragan Plateau	Uplands	0	
25	Dandaragan Plateau	Valleys	0	
26	Swan Coastal Plain	Uplands	0	
27	Swan Coastal Plain	Valleys	0	
28	Southern Plains	Jarrah	0	
29	Southern Plains	Karri	0	
30	Southern Plains	Heath / Sedgeland	0	
31	South Coast Dunes	South Coast Dunes	0	
32	Blackwood Plateau	Jarrah Uplands	0	
33	Blackwood Plateau	Karri Uplands	0	
34	Blackwood Plateau	Depressions / Swamps	0	
35	Blackwood Plateau	Valleys	0	
36	Margaret River Plateau	Jarrah Uplands	0	
37	Margaret River Plateau	Karri Uplands	0	
38	Margaret River Plateau	Jarrah Valleys	0	
39	Margaret River Plateau	Karri Valleys	0	
40	Lewin Naturalist Coast	Jarrah	0	
41	Lewin Naturalist Coast	Marri/Karri	0	
42	Lewin Naturalist Coast	Coast Heath	0	
43	Scott Coastal Plain	Uplands	0	
44	Scott Coastal Plain	Valleys / Swamps	0	
45	Redmond	Uplands	0	
46	Redmond	Valleys	0	
47	Unicup	Jarrah Uplands	0	
48	Unicup	Wandoo Uplands	0	
49	Unicup	Jarrah Valleys	0	
50	Unicup	Wandoo Valleys	0	
51	Unicup	Scrubland	0	
53	Darling Plateau	Wandoo Uplands South	0	
54	Darling Plateau	Wandoo Valleys South	0	

## Appendix 2b

Fauna Habitat ID	FDIS LAND SYSTEM	FDIS LANDSCAPE UNIT	SCORE	Origin
Yellow-billed Spoonbill				
1	Darling Plateau	Jarrah Uplands North	0	
2	Darling Plateau	Jarrah Uplands East	0	
3	Darling Plateau	Jarrah Uplands South	0	
4	Darling Plateau	Jarrah Uplands South East	0	
5	Darling Plateau	Karri Uplands	0	
6	Darling Plateau	Wandoo Uplands North	0	
7	Darling Plateau	Powder Bark Uplands	0	
8	Darling Plateau	Scarp	0	
9	Darling Plateau	Depression / Swamps North	0	
10	Darling Plateau	Depressions / Swamps South	0	
11	Darling Plateau	Depressions / Swamps East	0	
12	Darling Plateau	Depressions / Swamps South East	0	
13	Darling Plateau	Jarrah Valleys North	0	
14	Darling Plateau	Jarrah Valleys East	0	
15	Darling Plateau	Jarrah Valleys South	0	
16	Darling Plateau	Jarrah Valleys South East	0	
17	Darling Plateau	Karri Valleys	0	
18	Darling Plateau	Wandoo Valleys North	0	
19	Darling Plateau	Powder Bark Wandoo Valleys	0	
20	Darling Plateau	Granite Outcrops	0	
21	Various Systems	Esturies / Open Water	1	
22	Collie Plain	Uplands	0	
23	Collie Plain	Depressions / Swamps	0	
24	Dandaragan Plateau	Uplands	0	
25	Dandaragan Plateau	Valleys	0	
26	Swan Coastal Plain	Uplands	0	
27	Swan Coastal Plain	Valleys	0	
28	Southern Plains	Jarrah	0	
29	Southern Plains	Karri	0	
30	Southern Plains	Heath / Sedgeland	0	
31	South Coast Dunes	South Coast Dunes	0	
32	Blackwood Plateau	Jarrah Uplands	0	
33	Blackwood Plateau	Karri Uplands	0	
34	Blackwood Plateau	Depressions / Swamps	0	
35	Blackwood Plateau	Valleys	0	
36	Margaret River Plateau	Jarrah Uplands	0	
37	Margaret River Plateau	Karri Uplands	0	
38	Margaret River Plateau	Jarrah Valleys	0	
39	Margaret River Plateau	Karri Valleys	0	
40	Lewin Naturalist Coast	Jarrah	0	
41	Lewin Naturalist Coast	Marri/Karri	0	
42	Lewin Naturalist Coast	Coast Heath	0	
43	Scott Coastal Plain	Uplands	0	
44	Scott Coastal Plain	Valleys / Swamps	0	
45	Redmond	Uplands	0	
46	Redmond	Valleys	0	
47	Unicup	Jarrah Uplands	0	
48	Unicup	Wandoo Uplands	0	
49	Unicup	Jarrah Valleys	0	
50	Unicup	Wandoo Valleys	0	
51	Unicup	Scrubland	0	
53	Darling Plateau	Wandoo Uplands South	0	
54	Darling Plateau	Wandoo Valleys South	0	

## Appendix 2b

Fauna Habitat ID	FDIS LAND SYSTEM	FDIS LANDSCAPE UNIT	SCORE	Origin
Black Swan				
1	Darling Plateau	Jarrah Uplands North	0	
2	Darling Plateau	Jarrah Uplands East	0	
3	Darling Plateau	Jarrah Uplands South	0	
4	Darling Plateau	Jarrah Uplands South East	0	
5	Darling Plateau	Karri Uplands	0	
6	Darling Plateau	Wandoo Uplands North	0	
7	Darling Plateau	Powder Bark Uplands	0	
8	Darling Plateau	Scarp	0	
9	Darling Plateau	Depression / Swamps North	0	
10	Darling Plateau	Depressions / Swamps South	0	
11	Darling Plateau	Depressions / Swamps East	0	
12	Darling Plateau	Depressions / Swamps South East	0	
13	Darling Plateau	Jarrah Valleys North	0	
14	Darling Plateau	Jarrah Valleys East	0	
15	Darling Plateau	Jarrah Valleys South	0	
16	Darling Plateau	Jarrah Valleys South East	0	
17	Darling Plateau	Karri Valleys	0	
18	Darling Plateau	Wandoo Valleys North	0	
19	Darling Plateau	Powder Bark Wandoo Valleys	0	
20	Darling Plateau	Granite Outcrops	0	
21	Various Systems	Esturies / Open Water	2	
22	Collie Plain	Uplands	0	
23	Collie Plain	Depressions / Swamps	0	
24	Dandaragan Plateau	Uplands	0	
25	Dandaragan Plateau	Valleys	0	
26	Swan Coastal Plain	Uplands	0	
27	Swan Coastal Plain	Valleys	0	
28	Southern Plains	Jarrah	0	
29	Southern Plains	Karri	0	
30	Southern Plains	Heath / Sedgeland	0	
31	South Coast Dunes	South Coast Dunes	0	
32	Blackwood Plateau	Jarrah Uplands	0	
33	Blackwood Plateau	Karri Uplands	0	
34	Blackwood Plateau	Depressions / Swamps	0	
35	Blackwood Plateau	Valleys	0	
36	Margaret River Plateau	Jarrah Uplands	0	
37	Margaret River Plateau	Karri Uplands	0	
38	Margaret River Plateau	Jarrah Valleys	0	
39	Margaret River Plateau	Karri Valleys	0	
40	Lewin Naturalist Coast	Jarrah	0	
41	Lewin Naturalist Coast	Marri/Karri	0	
42	Lewin Naturalist Coast	Coast Heath	0	
43	Scott Coastal Plain	Uplands	0	
44	Scott Coastal Plain	Valleys / Swamps	0	
45	Redmond	Uplands	0	
46	Redmond	Valleys	0	
47	Unicup	Jarrah Uplands	0	
48	Unicup	Wandoo Uplands	0	
49	Unicup	Jarrah Valleys	0	
50	Unicup	Wandoo Valleys	0	
51	Unicup	Scrubland	0	
53	Darling Plateau	Wandoo Uplands South	0	
54	Darling Plateau	Wandoo Valleys South	0	

## Appendix 2b

Fauna Habitat ID	FDIS LAND SYSTEM	FDIS LANDSCAPE UNIT	SCORE	Origin
Freckled Duck				
1	Darling Plateau	Jarrah Uplands North	0	
2	Darling Plateau	Jarrah Uplands East	0	
3	Darling Plateau	Jarrah Uplands South	0	
4	Darling Plateau	Jarrah Uplands South East	0	
5	Darling Plateau	Karri Uplands	0	
6	Darling Plateau	Wandoo Uplands North	0	
7	Darling Plateau	Powder Bark Uplands	0	
8	Darling Plateau	Scarp	0	
9	Darling Plateau	Depression / Swamps North	0	
10	Darling Plateau	Depressions / Swamps South	0	
11	Darling Plateau	Depressions / Swamps East	0	
12	Darling Plateau	Depressions / Swamps South East	0	
13	Darling Plateau	Jarrah Valleys North	0	
14	Darling Plateau	Jarrah Valleys East	0	
15	Darling Plateau	Jarrah Valleys South	0	
16	Darling Plateau	Jarrah Valleys South East	0	
17	Darling Plateau	Karri Valleys	0	
18	Darling Plateau	Wandoo Valleys North	0	
19	Darling Plateau	Powder Bark Wandoo Valleys	0	
20	Darling Plateau	Granite Outcrops	0	
21	Various Systems	Esturies / Open Water	1	
22	Collie Plain	Uplands	0	
23	Collie Plain	Depressions / Swamps	0	
24	Dandaragan Plateau	Uplands	0	
25	Dandaragan Plateau	Valleys	0	
26	Swan Coastal Plain	Uplands	0	
27	Swan Coastal Plain	Valleys	0	
28	Southern Plains	Jarrah	0	
29	Southern Plains	Karri	0	
30	Southern Plains	Heath / Sedgeland	0	
31	South Coast Dunes	South Coast Dunes	0	
32	Blackwood Plateau	Jarrah Uplands	0	
33	Blackwood Plateau	Karri Uplands	0	
34	Blackwood Plateau	Depressions / Swamps	0	
35	Blackwood Plateau	Valleys	0	
36	Margaret River Plateau	Jarrah Uplands	0	
37	Margaret River Plateau	Karri Uplands	0	
38	Margaret River Plateau	Jarrah Valleys	0	
39	Margaret River Plateau	Karri Valleys	0	
40	Lewin Naturalist Coast	Jarrah	0	
41	Lewin Naturalist Coast	Marri/Karri	0	
42	Lewin Naturalist Coast	Coast Heath	0	
43	Scott Coastal Plain	Uplands	0	
44	Scott Coastal Plain	Valleys / Swamps	0	
45	Redmond	Uplands	0	
46	Redmond	Valleys	0	
47	Unicup	Jarrah Uplands	0	
48	Unicup	Wandoo Uplands	0	
49	Unicup	Jarrah Valleys	0	
50	Unicup	Wandoo Valleys	0	
51	Unicup	Scrubland	0	
53	Darling Plateau	Wandoo Uplands South	0	
54	Darling Plateau	Wandoo Valleys South	0	

## Appendix 2b

Fauna Habitat ID	FDIS LAND SYSTEM	FDIS LANDSCAPE UNIT	SCORE	Origin
Australian Shelduck				
1	Darling Plateau	Jarrah Uplands North	0	
2	Darling Plateau	Jarrah Uplands East	0	
3	Darling Plateau	Jarrah Uplands South	0	
4	Darling Plateau	Jarrah Uplands South East	0	
5	Darling Plateau	Karri Uplands	0	
6	Darling Plateau	Wandoo Uplands North	0	
7	Darling Plateau	Powder Bark Uplands	0	
8	Darling Plateau	Scarp	0	
9	Darling Plateau	Depression / Swamps North	0	
10	Darling Plateau	Depressions / Swamps South	0	
11	Darling Plateau	Depressions / Swamps East	0	
12	Darling Plateau	Depressions / Swamps South East	0	
13	Darling Plateau	Jarrah Valleys North	0	
14	Darling Plateau	Jarrah Valleys East	0	
15	Darling Plateau	Jarrah Valleys South	0	
16	Darling Plateau	Jarrah Valleys South East	0	
17	Darling Plateau	Karri Valleys	0	
18	Darling Plateau	Wandoo Valleys North	0	
19	Darling Plateau	Powder Bark Wandoo Valleys	0	
20	Darling Plateau	Granite Outcrops	0	
21	Various Systems	Esturies / Open Water	2	
22	Collie Plain	Uplands	0	
23	Collie Plain	Depressions / Swamps	0	
24	Dandaragan Plateau	Uplands	0	
25	Dandaragan Plateau	Valleys	0	
26	Swan Coastal Plain	Uplands	0	
27	Swan Coastal Plain	Valleys	0	
28	Southern Plains	Jarrah	0	
29	Southern Plains	Karri	0	
30	Southern Plains	Heath / Sedgeland	0	
31	South Coast Dunes	South Coast Dunes	0	
32	Blackwood Plateau	Jarrah Uplands	0	
33	Blackwood Plateau	Karri Uplands	0	
34	Blackwood Plateau	Depressions / Swamps	0	
35	Blackwood Plateau	Valleys	0	
36	Margaret River Plateau	Jarrah Uplands	0	
37	Margaret River Plateau	Karri Uplands	0	
38	Margaret River Plateau	Jarrah Valleys	0	
39	Margaret River Plateau	Karri Valleys	0	
40	Lewin Naturalist Coast	Jarrah	0	
41	Lewin Naturalist Coast	Marri/Karri	0	
42	Lewin Naturalist Coast	Coast Heath	0	
43	Scott Coastal Plain	Uplands	0	
44	Scott Coastal Plain	Valleys / Swamps	0	
45	Redmond	Uplands	0	
46	Redmond	Valleys	0	
47	Unicup	Jarrah Uplands	0	
48	Unicup	Wandoo Uplands	0	
49	Unicup	Jarrah Valleys	0	
50	Unicup	Wandoo Valleys	0	
51	Unicup	Scrubland	0	
53	Darling Plateau	Wandoo Uplands South	0	
54	Darling Plateau	Wandoo Valleys South	0	

## Appendix 2b

Fauna Habitat ID	FDIS LAND SYSTEM	FDIS LANDSCAPE UNIT	SCORE	Origin
Pacific Black Duck				
1	Darling Plateau	Jarrah Uplands North	0	
2	Darling Plateau	Jarrah Uplands East	0	
3	Darling Plateau	Jarrah Uplands South	0	
4	Darling Plateau	Jarrah Uplands South East	0	
5	Darling Plateau	Karri Uplands	0	
6	Darling Plateau	Wandoo Uplands North	0	
7	Darling Plateau	Powder Bark Uplands	0	
8	Darling Plateau	Scarp	0	
9	Darling Plateau	Depression / Swamps North	1	
10	Darling Plateau	Depressions / Swamps South	1	
11	Darling Plateau	Depressions / Swamps East	1	
12	Darling Plateau	Depressions / Swamps South East	0	
13	Darling Plateau	Jarrah Valleys North	0	
14	Darling Plateau	Jarrah Valleys East	0	
15	Darling Plateau	Jarrah Valleys South	0	
16	Darling Plateau	Jarrah Valleys South East	0	
17	Darling Plateau	Karri Valleys	0	
18	Darling Plateau	Wandoo Valleys North	0	
19	Darling Plateau	Powder Bark Wandoo Valleys	0	
20	Darling Plateau	Granite Outcrops	0	
21	Various Systems	Esturies / Open Water	3	
22	Collie Plain	Uplands	0	
23	Collie Plain	Depressions / Swamps	1	
24	Dandaragan Plateau	Uplands	0	
25	Dandaragan Plateau	Valleys	0	
26	Swan Coastal Plain	Uplands	0	
27	Swan Coastal Plain	Valleys	0	
28	Southern Plains	Jarrah	0	
29	Southern Plains	Karri	0	
30	Southern Plains	Heath / Sedgeland	0	
31	South Coast Dunes	South Coast Dunes	0	
32	Blackwood Plateau	Jarrah Uplands	0	
33	Blackwood Plateau	Karri Uplands	0	
34	Blackwood Plateau	Depressions / Swamps	1	
35	Blackwood Plateau	Valleys	0	
36	Margaret River Plateau	Jarrah Uplands	0	
37	Margaret River Plateau	Karri Uplands	0	
38	Margaret River Plateau	Jarrah Valleys	0	
39	Margaret River Plateau	Karri Valleys	0	
40	Lewin Naturalist Coast	Jarrah	0	
41	Lewin Naturalist Coast	Marri/Karri	0	
42	Lewin Naturalist Coast	Coast Heath	0	
43	Scott Coastal Plain	Uplands	0	
44	Scott Coastal Plain	Valleys / Swamps	0	
45	Redmond	Uplands	0	
46	Redmond	Valleys	0	
47	Unicup	Jarrah Uplands	0	
48	Unicup	Wandoo Uplands	0	
49	Unicup	Jarrah Valleys	0	
50	Unicup	Wandoo Valleys	0	
51	Unicup	Scrubland	0	
53	Darling Plateau	Wandoo Uplands South	0	
54	Darling Plateau	Wandoo Valleys South	0	

## Appendix 2b

Fauna Habitat ID	FDIS LAND SYSTEM	FDIS LANDSCAPE UNIT	SCORE	Origin
Grey Teal				
1	Darling Plateau	Jarrah Uplands North	0	
2	Darling Plateau	Jarrah Uplands East	0	
3	Darling Plateau	Jarrah Uplands South	0	
4	Darling Plateau	Jarrah Uplands South East	0	
5	Darling Plateau	Karri Uplands	0	
6	Darling Plateau	Wandoo Uplands North	0	
7	Darling Plateau	Powder Bark Uplands	0	
8	Darling Plateau	Scarp	0	
9	Darling Plateau	Depression / Swamps North	0	
10	Darling Plateau	Depressions / Swamps South	0	
11	Darling Plateau	Depressions / Swamps East	0	
12	Darling Plateau	Depressions / Swamps South East	0	
13	Darling Plateau	Jarrah Valleys North	0	
14	Darling Plateau	Jarrah Valleys East	0	
15	Darling Plateau	Jarrah Valleys South	0	
16	Darling Plateau	Jarrah Valleys South East	0	
17	Darling Plateau	Karri Valleys	0	
18	Darling Plateau	Wandoo Valleys North	0	
19	Darling Plateau	Powder Bark Wandoo Valleys	0	
20	Darling Plateau	Granite Outcrops	0	
21	Various Systems	Esturies / Open Water	2	
22	Collie Plain	Uplands	0	
23	Collie Plain	Depressions / Swamps	0	
24	Dandaragan Plateau	Uplands	0	
25	Dandaragan Plateau	Valleys	0	
26	Swan Coastal Plain	Uplands	0	
27	Swan Coastal Plain	Valleys	0	
28	Southern Plains	Jarrah	0	
29	Southern Plains	Karri	0	
30	Southern Plains	Heath / Sedgeland	0	
31	South Coast Dunes	South Coast Dunes	0	
32	Blackwood Plateau	Jarrah Uplands	0	
33	Blackwood Plateau	Karri Uplands	0	
34	Blackwood Plateau	Depressions / Swamps	0	
35	Blackwood Plateau	Valleys	0	
36	Margaret River Plateau	Jarrah Uplands	0	
37	Margaret River Plateau	Karri Uplands	0	
38	Margaret River Plateau	Jarrah Valleys	0	
39	Margaret River Plateau	Karri Valleys	0	
40	Lewin Naturalist Coast	Jarrah	0	
41	Lewin Naturalist Coast	Marri/Karri	0	
42	Lewin Naturalist Coast	Coast Heath	0	
43	Scott Coastal Plain	Uplands	0	
44	Scott Coastal Plain	Valleys / Swamps	0	
45	Redmond	Uplands	0	
46	Redmond	Valleys	0	
47	Unicup	Jarrah Uplands	0	
48	Unicup	Wandoo Uplands	0	
49	Unicup	Jarrah Valleys	0	
50	Unicup	Wandoo Valleys	0	
51	Unicup	Scrubland	0	
53	Darling Plateau	Wandoo Uplands South	0	
54	Darling Plateau	Wandoo Valleys South	0	



## Appendix 2b

Fauna Habitat ID	FDIS LAND SYSTEM	FDIS LANDSCAPE UNIT	SCORE	Origin
Chestnut Teal				
1	Darling Plateau	Jarrah Uplands North	0	
2	Darling Plateau	Jarrah Uplands East	0	
3	Darling Plateau	Jarrah Uplands South	0	
4	Darling Plateau	Jarrah Uplands South East	0	
5	Darling Plateau	Karri Uplands	0	
6	Darling Plateau	Wandoo Uplands North	0	
7	Darling Plateau	Powder Bark Uplands	0	
8	Darling Plateau	Scarp	0	
9	Darling Plateau	Depression / Swamps North	0	
10	Darling Plateau	Depressions / Swamps South	0	
11	Darling Plateau	Depressions / Swamps East	0	
12	Darling Plateau	Depressions / Swamps South East	0	
13	Darling Plateau	Jarrah Valleys North	0	
14	Darling Plateau	Jarrah Valleys East	0	
15	Darling Plateau	Jarrah Valleys South	0	
16	Darling Plateau	Jarrah Valleys South East	0	
17	Darling Plateau	Karri Valleys	0	
18	Darling Plateau	Wandoo Valleys North	0	
19	Darling Plateau	Powder Bark Wandoo Valleys	0	
20	Darling Plateau	Granite Outcrops	0	
21	Various Systems	Esturies / Open Water	1	
22	Collie Plain	Uplands	0	
23	Collie Plain	Depressions / Swamps	0	
24	Dandaragan Plateau	Uplands	0	
25	Dandaragan Plateau	Valleys	0	
26	Swan Coastal Plain	Uplands	0	
27	Swan Coastal Plain	Valleys	0	
28	Southern Plains	Jarrah	0	
29	Southern Plains	Karri	0	
30	Southern Plains	Heath / Sedgeland	0	
31	South Coast Dunes	South Coast Dunes	0	
32	Blackwood Plateau	Jarrah Uplands	0	
33	Blackwood Plateau	Karri Uplands	0	
34	Blackwood Plateau	Depressions / Swamps	0	
35	Blackwood Plateau	Valleys	0	
36	Margaret River Plateau	Jarrah Uplands	0	
37	Margaret River Plateau	Karri Uplands	0	
38	Margaret River Plateau	Jarrah Valleys	0	
39	Margaret River Plateau	Karri Valleys	0	
40	Lewin Naturalist Coast	Jarrah	0	
41	Lewin Naturalist Coast	Marri/Karri	0	
42	Lewin Naturalist Coast	Coast Heath	0	
43	Scott Coastal Plain	Uplands	0	
44	Scott Coastal Plain	Valleys / Swamps	0	
45	Redmond	Uplands	0	
46	Redmond	Valleys	0	
47	Unicup	Jarrah Uplands	0	
48	Unicup	Wandoo Uplands	0	
49	Unicup	Jarrah Valleys	0	
50	Unicup	Wandoo Valleys	0	
51	Unicup	Scrubland	0	
53	Darling Plateau	Wandoo Uplands South	0	
54	Darling Plateau	Wandoo Valleys South	0	

## Appendix 2b

Fauna Habitat ID	FDIS LAND SYSTEM	FDIS LANDSCAPE UNIT	SCORE	Origin
Australian Shoveler				
1	Darling Plateau	Jarrah Uplands North	0	
2	Darling Plateau	Jarrah Uplands East	0	
3	Darling Plateau	Jarrah Uplands South	0	
4	Darling Plateau	Jarrah Uplands South East	0	
5	Darling Plateau	Karri Uplands	0	
6	Darling Plateau	Wandoo Uplands North	0	
7	Darling Plateau	Powder Bark Uplands	0	
8	Darling Plateau	Scarp	0	
9	Darling Plateau	Depression / Swamps North	0	
10	Darling Plateau	Depressions / Swamps South	0	
11	Darling Plateau	Depressions / Swamps East	0	
12	Darling Plateau	Depressions / Swamps South East	0	
13	Darling Plateau	Jarrah Valleys North	0	
14	Darling Plateau	Jarrah Valleys East	0	
15	Darling Plateau	Jarrah Valleys South	0	
16	Darling Plateau	Jarrah Valleys South East	0	
17	Darling Plateau	Karri Valleys	0	
18	Darling Plateau	Wandoo Valleys North	0	
19	Darling Plateau	Powder Bark Wandoo Valleys	0	
20	Darling Plateau	Granite Outcrops	0	
21	Various Systems	Esturies / Open Water	2	
22	Collie Plain	Uplands	0	
23	Collie Plain	Depressions / Swamps	0	
24	Dandaragan Plateau	Uplands	0	
25	Dandaragan Plateau	Valleys	0	
26	Swan Coastal Plain	Uplands	0	
27	Swan Coastal Plain	Valleys	0	
28	Southern Plains	Jarrah	0	
29	Southern Plains	Karri	0	
30	Southern Plains	Heath / Sedgeland	0	
31	South Coast Dunes	South Coast Dunes	0	
32	Blackwood Plateau	Jarrah Uplands	0	
33	Blackwood Plateau	Karri Uplands	0	
34	Blackwood Plateau	Depressions / Swamps	0	
35	Blackwood Plateau	Valleys	0	
36	Margaret River Plateau	Jarrah Uplands	0	
37	Margaret River Plateau	Karri Uplands	0	
38	Margaret River Plateau	Jarrah Valleys	0	
39	Margaret River Plateau	Karri Valleys	0	
40	Lewin Naturalist Coast	Jarrah	0	
41	Lewin Naturalist Coast	Marri/Karri	0	
42	Lewin Naturalist Coast	Coast Heath	0	
43	Scott Coastal Plain	Uplands	0	
44	Scott Coastal Plain	Valleys / Swamps	0	
45	Redmond	Uplands	0	
46	Redmond	Valleys	0	
47	Unicup	Jarrah Uplands	0	
48	Unicup	Wandoo Uplands	0	
49	Unicup	Jarrah Valleys	0	
50	Unicup	Wandoo Valleys	0	
51	Unicup	Scrubland	0	
53	Darling Plateau	Wandoo Uplands South	0	
54	Darling Plateau	Wandoo Valleys South	0	

## Appendix 2b

Fauna Habitat ID	FDIS LAND SYSTEM	FDIS LANDSCAPE UNIT	SCORE	Origin
Pink-eared Duck				
1	Darling Plateau	Jarrah Uplands North	0	
2	Darling Plateau	Jarrah Uplands East	0	
3	Darling Plateau	Jarrah Uplands South	0	
4	Darling Plateau	Jarrah Uplands South East	0	
5	Darling Plateau	Karri Uplands	0	
6	Darling Plateau	Wandoo Uplands North	0	
7	Darling Plateau	Powder Bark Uplands	0	
8	Darling Plateau	Scarp	0	
9	Darling Plateau	Depression / Swamps North	0	
10	Darling Plateau	Depressions / Swamps South	0	
11	Darling Plateau	Depressions / Swamps East	0	
12	Darling Plateau	Depressions / Swamps South East	0	
13	Darling Plateau	Jarrah Valleys North	0	
14	Darling Plateau	Jarrah Valleys East	0	
15	Darling Plateau	Jarrah Valleys South	0	
16	Darling Plateau	Jarrah Valleys South East	0	
17	Darling Plateau	Karri Valleys	0	
18	Darling Plateau	Wandoo Valleys North	0	
19	Darling Plateau	Powder Bark Wandoo Valleys	0	
20	Darling Plateau	Granite Outcrops	0	
21	Various Systems	Esturies / Open Water	1	
22	Collie Plain	Uplands	0	
23	Collie Plain	Depressions / Swamps	0	
24	Dandaragan Plateau	Uplands	0	
25	Dandaragan Plateau	Valleys	0	
26	Swan Coastal Plain	Uplands	0	
27	Swan Coastal Plain	Valleys	0	
28	Southern Plains	Jarrah	0	
29	Southern Plains	Karri	0	
30	Southern Plains	Heath / Sedgeland	0	
31	South Coast Dunes	South Coast Dunes	0	
32	Blackwood Plateau	Jarrah Uplands	0	
33	Blackwood Plateau	Karri Uplands	0	
34	Blackwood Plateau	Depressions / Swamps	0	
35	Blackwood Plateau	Valleys	0	
36	Margaret River Plateau	Jarrah Uplands	0	
37	Margaret River Plateau	Karri Uplands	0	
38	Margaret River Plateau	Jarrah Valleys	0	
39	Margaret River Plateau	Karri Valleys	0	
40	Lewin Naturalist Coast	Jarrah	0	
41	Lewin Naturalist Coast	Marri/Karri	0	
42	Lewin Naturalist Coast	Coast Heath	0	
43	Scott Coastal Plain	Uplands	0	
44	Scott Coastal Plain	Valleys / Swamps	0	
45	Redmond	Uplands	0	
46	Redmond	Valleys	0	
47	Unicup	Jarrah Uplands	0	
48	Unicup	Wandoo Uplands	0	
49	Unicup	Jarrah Valleys	0	
50	Unicup	Wandoo Valleys	0	
51	Unicup	Scrubland	0	
53	Darling Plateau	Wandoo Uplands South	0	
54	Darling Plateau	Wandoo Valleys South	0	

## Appendix 2b

Fauna Habitat ID	FDIS LAND SYSTEM	FDIS LANDSCAPE UNIT	SCORE	Origin
Hardhead				
1	Darling Plateau	Jarrah Uplands North	0	
2	Darling Plateau	Jarrah Uplands East	0	
3	Darling Plateau	Jarrah Uplands South	0	
4	Darling Plateau	Jarrah Uplands South East	0	
5	Darling Plateau	Karri Uplands	0	
6	Darling Plateau	Wandoo Uplands North	0	
7	Darling Plateau	Powder Bark Uplands	0	
8	Darling Plateau	Scarp	0	
9	Darling Plateau	Depression / Swamps North	0	
10	Darling Plateau	Depressions / Swamps South	0	
11	Darling Plateau	Depressions / Swamps East	0	
12	Darling Plateau	Depressions / Swamps South East	0	
13	Darling Plateau	Jarrah Valleys North	0	
14	Darling Plateau	Jarrah Valleys East	0	
15	Darling Plateau	Jarrah Valleys South	0	
16	Darling Plateau	Jarrah Valleys South East	0	
17	Darling Plateau	Karri Valleys	0	
18	Darling Plateau	Wandoo Valleys North	0	
19	Darling Plateau	Powder Bark Wandoo Valleys	0	
20	Darling Plateau	Granite Outcrops	0	
21	Various Systems	Esturies / Open Water	1	
22	Collie Plain	Uplands	0	
23	Collie Plain	Depressions / Swamps	0	
24	Dandaragan Plateau	Uplands	0	
25	Dandaragan Plateau	Valleys	0	
26	Swan Coastal Plain	Uplands	0	
27	Swan Coastal Plain	Valleys	0	
28	Southern Plains	Jarrah	0	
29	Southern Plains	Karri	0	
30	Southern Plains	Heath / Sedgeland	0	
31	South Coast Dunes	South Coast Dunes	0	
32	Blackwood Plateau	Jarrah Uplands	0	
33	Blackwood Plateau	Karri Uplands	0	
34	Blackwood Plateau	Depressions / Swamps	0	
35	Blackwood Plateau	Valleys	0	
36	Margaret River Plateau	Jarrah Uplands	0	
37	Margaret River Plateau	Karri Uplands	0	
38	Margaret River Plateau	Jarrah Valleys	0	
39	Margaret River Plateau	Karri Valleys	0	
40	Lewin Naturalist Coast	Jarrah	0	
41	Lewin Naturalist Coast	Marri/Karri	0	
42	Lewin Naturalist Coast	Coast Heath	0	
43	Scott Coastal Plain	Uplands	0	
44	Scott Coastal Plain	Valleys / Swamps	0	
45	Redmond	Uplands	0	
46	Redmond	Valleys	0	
47	Unicup	Jarrah Uplands	0	
48	Unicup	Wandoo Uplands	0	
49	Unicup	Jarrah Valleys	0	
50	Unicup	Wandoo Valleys	0	
51	Unicup	Scrubland	0	
53	Darling Plateau	Wandoo Uplands South	0	
54	Darling Plateau	Wandoo Valleys South	0	

## Appendix 2b

Fauna Habitat ID	FDIS LAND SYSTEM	FDIS LANDSCAPE UNIT	SCORE	Origin
Maned Duck				
1	Darling Plateau	Jarrah Uplands North	0	
2	Darling Plateau	Jarrah Uplands East	0	
3	Darling Plateau	Jarrah Uplands South	0	
4	Darling Plateau	Jarrah Uplands South East	0	
5	Darling Plateau	Karri Uplands	0	
6	Darling Plateau	Wandoo Uplands North	0	
7	Darling Plateau	Powder Bark Uplands	0	
8	Darling Plateau	Scarp	0	
9	Darling Plateau	Depression / Swamps North	0	
10	Darling Plateau	Depressions / Swamps South	0	
11	Darling Plateau	Depressions / Swamps East	0	
12	Darling Plateau	Depressions / Swamps South East	0	
13	Darling Plateau	Jarrah Valleys North	0	
14	Darling Plateau	Jarrah Valleys East	0	
15	Darling Plateau	Jarrah Valleys South	0	
16	Darling Plateau	Jarrah Valleys South East	0	
17	Darling Plateau	Karri Valleys	0	
18	Darling Plateau	Wandoo Valleys North	0	
19	Darling Plateau	Powder Bark Wandoo Valleys	0	
20	Darling Plateau	Granite Outcrops	0	
21	Various Systems	Esturies / Open Water	3	
22	Collie Plain	Uplands	0	
23	Collie Plain	Depressions / Swamps	0	
24	Dandaragan Plateau	Uplands	0	
25	Dandaragan Plateau	Valleys	0	
26	Swan Coastal Plain	Uplands	0	
27	Swan Coastal Plain	Valleys	0	
28	Southern Plains	Jarrah	0	
29	Southern Plains	Karri	0	
30	Southern Plains	Heath / Sedgeland	0	
31	South Coast Dunes	South Coast Dunes	0	
32	Blackwood Plateau	Jarrah Uplands	0	
33	Blackwood Plateau	Karri Uplands	0	
34	Blackwood Plateau	Depressions / Swamps	0	
35	Blackwood Plateau	Valleys	0	
36	Margaret River Plateau	Jarrah Uplands	0	
37	Margaret River Plateau	Karri Uplands	0	
38	Margaret River Plateau	Jarrah Valleys	0	
39	Margaret River Plateau	Karri Valleys	0	
40	Lewin Naturalist Coast	Jarrah	0	
41	Lewin Naturalist Coast	Marri/Karri	0	
42	Lewin Naturalist Coast	Coast Heath	0	
43	Scott Coastal Plain	Uplands	0	
44	Scott Coastal Plain	Valleys / Swamps	0	
45	Redmond	Uplands	0	
46	Redmond	Valleys	0	
47	Unicup	Jarrah Uplands	0	
48	Unicup	Wandoo Uplands	0	
49	Unicup	Jarrah Valleys	0	
50	Unicup	Wandoo Valleys	0	
51	Unicup	Scrubland	0	
53	Darling Plateau	Wandoo Uplands South	0	
54	Darling Plateau	Wandoo Valleys South	0	

## Appendix 2b

Fauna Habitat ID	FDIS LAND SYSTEM	FDIS LANDSCAPE UNIT	SCORE	Origin
Blue-billed Duck				
1	Darling Plateau	Jarrah Uplands North	0	
2	Darling Plateau	Jarrah Uplands East	0	
3	Darling Plateau	Jarrah Uplands South	0	
4	Darling Plateau	Jarrah Uplands South East	0	
5	Darling Plateau	Karri Uplands	0	
6	Darling Plateau	Wandoo Uplands North	0	
7	Darling Plateau	Powder Bark Uplands	0	
8	Darling Plateau	Scarp	0	
9	Darling Plateau	Depression / Swamps North	0	
10	Darling Plateau	Depressions / Swamps South	0	
11	Darling Plateau	Depressions / Swamps East	0	
12	Darling Plateau	Depressions / Swamps South East	0	
13	Darling Plateau	Jarrah Valleys North	0	
14	Darling Plateau	Jarrah Valleys East	0	
15	Darling Plateau	Jarrah Valleys South	0	
16	Darling Plateau	Jarrah Valleys South East	0	
17	Darling Plateau	Karri Valleys	0	
18	Darling Plateau	Wandoo Valleys North	0	
19	Darling Plateau	Powder Bark Wandoo Valleys	0	
20	Darling Plateau	Granite Outcrops	0	
21	Various Systems	Esturies / Open Water	1	
22	Collie Plain	Uplands	0	
23	Collie Plain	Depressions / Swamps	0	
24	Dandaragan Plateau	Uplands	0	
25	Dandaragan Plateau	Valleys	0	
26	Swan Coastal Plain	Uplands	0	
27	Swan Coastal Plain	Valleys	0	
28	Southern Plains	Jarrah	0	
29	Southern Plains	Karri	0	
30	Southern Plains	Heath / Sedgeland	0	
31	South Coast Dunes	South Coast Dunes	0	
32	Blackwood Plateau	Jarrah Uplands	0	
33	Blackwood Plateau	Karri Uplands	0	
34	Blackwood Plateau	Depressions / Swamps	0	
35	Blackwood Plateau	Valleys	0	
36	Margaret River Plateau	Jarrah Uplands	0	
37	Margaret River Plateau	Karri Uplands	0	
38	Margaret River Plateau	Jarrah Valleys	0	
39	Margaret River Plateau	Karri Valleys	0	
40	Lewin Naturalist Coast	Jarrah	0	
41	Lewin Naturalist Coast	Marri/Karri	0	
42	Lewin Naturalist Coast	Coast Heath	0	
43	Scott Coastal Plain	Uplands	0	
44	Scott Coastal Plain	Valleys / Swamps	0	
45	Redmond	Uplands	0	
46	Redmond	Valleys	0	
47	Unicup	Jarrah Uplands	0	
48	Unicup	Wandoo Uplands	0	
49	Unicup	Jarrah Valleys	0	
50	Unicup	Wandoo Valleys	0	
51	Unicup	Scrubland	0	
53	Darling Plateau	Wandoo Uplands South	0	
54	Darling Plateau	Wandoo Valleys South	0	

## Appendix 2b

Fauna Habitat ID	FDIS LAND SYSTEM	FDIS LANDSCAPE UNIT	SCORE	Origin
Musk Duck				
1	Darling Plateau	Jarrah Uplands North	0	
2	Darling Plateau	Jarrah Uplands East	0	
3	Darling Plateau	Jarrah Uplands South	0	
4	Darling Plateau	Jarrah Uplands South East	0	
5	Darling Plateau	Karri Uplands	0	
6	Darling Plateau	Wandoo Uplands North	0	
7	Darling Plateau	Powder Bark Uplands	0	
8	Darling Plateau	Scarp	0	
9	Darling Plateau	Depression / Swamps North	0	
10	Darling Plateau	Depressions / Swamps South	0	
11	Darling Plateau	Depressions / Swamps East	0	
12	Darling Plateau	Depressions / Swamps South East	0	
13	Darling Plateau	Jarrah Valleys North	0	
14	Darling Plateau	Jarrah Valleys East	0	
15	Darling Plateau	Jarrah Valleys South	0	
16	Darling Plateau	Jarrah Valleys South East	0	
17	Darling Plateau	Karri Valleys	0	
18	Darling Plateau	Wandoo Valleys North	0	
19	Darling Plateau	Powder Bark Wandoo Valleys	0	
20	Darling Plateau	Granite Outcrops	0	
21	Various Systems	Esturies / Open Water	2	
22	Collie Plain	Uplands	0	
23	Collie Plain	Depressions / Swamps	0	
24	Dandaragan Plateau	Uplands	0	
25	Dandaragan Plateau	Valleys	0	
26	Swan Coastal Plain	Uplands	0	
27	Swan Coastal Plain	Valleys	0	
28	Southern Plains	Jarrah	0	
29	Southern Plains	Karri	0	
30	Southern Plains	Heath / Sedgeland	0	
31	South Coast Dunes	South Coast Dunes	0	
32	Blackwood Plateau	Jarrah Uplands	0	
33	Blackwood Plateau	Karri Uplands	0	
34	Blackwood Plateau	Depressions / Swamps	0	
35	Blackwood Plateau	Valleys	0	
36	Margaret River Plateau	Jarrah Uplands	0	
37	Margaret River Plateau	Karri Uplands	0	
38	Margaret River Plateau	Jarrah Valleys	0	
39	Margaret River Plateau	Karri Valleys	0	
40	Lewin Naturalist Coast	Jarrah	0	
41	Lewin Naturalist Coast	Marri/Karri	0	
42	Lewin Naturalist Coast	Coast Heath	0	
43	Scott Coastal Plain	Uplands	0	
44	Scott Coastal Plain	Valleys / Swamps	0	
45	Redmond	Uplands	0	
46	Redmond	Valleys	0	
47	Unicup	Jarrah Uplands	0	
48	Unicup	Wandoo Uplands	0	
49	Unicup	Jarrah Valleys	0	
50	Unicup	Wandoo Valleys	0	
51	Unicup	Scrubland	0	
53	Darling Plateau	Wandoo Uplands South	0	
54	Darling Plateau	Wandoo Valleys South	0	

## Appendix 2b

Fauna Habitat ID	FDIS LAND SYSTEM	FDIS LANDSCAPE UNIT	SCORE	Origin
Osprey				
1	Darling Plateau	Jarrah Uplands North	0	
2	Darling Plateau	Jarrah Uplands East	0	
3	Darling Plateau	Jarrah Uplands South	0	
4	Darling Plateau	Jarrah Uplands South East	0	
5	Darling Plateau	Karri Uplands	0	
6	Darling Plateau	Wandoo Uplands North	0	
7	Darling Plateau	Powder Bark Uplands	0	
8	Darling Plateau	Scarp	0	
9	Darling Plateau	Depression / Swamps North	0	
10	Darling Plateau	Depressions / Swamps South	0	
11	Darling Plateau	Depressions / Swamps East	0	
12	Darling Plateau	Depressions / Swamps South East	0	
13	Darling Plateau	Jarrah Valleys North	0	
14	Darling Plateau	Jarrah Valleys East	0	
15	Darling Plateau	Jarrah Valleys South	0	
16	Darling Plateau	Jarrah Valleys South East	0	
17	Darling Plateau	Karri Valleys	0	
18	Darling Plateau	Wandoo Valleys North	0	
19	Darling Plateau	Powder Bark Wandoo Valleys	0	
20	Darling Plateau	Granite Outcrops	0	
21	Various Systems	Esturies / Open Water	1	
22	Collie Plain	Uplands	0	
23	Collie Plain	Depressions / Swamps	0	
24	Dandaragan Plateau	Uplands	0	
25	Dandaragan Plateau	Valleys	0	
26	Swan Coastal Plain	Uplands	2	
27	Swan Coastal Plain	Valleys	2	
28	Southern Plains	Jarrah	0	
29	Southern Plains	Karri	0	
30	Southern Plains	Heath / Sedgeland	0	
31	South Coast Dunes	South Coast Dunes	2	
32	Blackwood Plateau	Jarrah Uplands	0	
33	Blackwood Plateau	Karri Uplands	0	
34	Blackwood Plateau	Depressions / Swamps	0	
35	Blackwood Plateau	Valleys	0	
36	Margaret River Plateau	Jarrah Uplands	0	
37	Margaret River Plateau	Karri Uplands	0	
38	Margaret River Plateau	Jarrah Valleys	0	
39	Margaret River Plateau	Karri Valleys	0	
40	Lewin Naturalist Coast	Jarrah	0	
41	Lewin Naturalist Coast	Marri/Karri	0	
42	Lewin Naturalist Coast	Coast Heath	0	
43	Scott Coastal Plain	Uplands	0	
44	Scott Coastal Plain	Valleys / Swamps	0	
45	Redmond	Uplands	0	
46	Redmond	Valleys	0	
47	Unicup	Jarrah Uplands	0	
48	Unicup	Wandoo Uplands	0	
49	Unicup	Jarrah Valleys	0	
50	Unicup	Wandoo Valleys	0	
51	Unicup	Scrubland	0	
53	Darling Plateau	Wandoo Uplands South	0	
54	Darling Plateau	Wandoo Valleys South	0	



## Appendix 2b

Fauna Habitat ID	FDIS LAND SYSTEM	FDIS LANDSCAPE UNIT	SCORE	Origin
Black-shouldered Kite				
1	Darling Plateau	Jarrah Uplands North	2	
2	Darling Plateau	Jarrah Uplands East	3	
3	Darling Plateau	Jarrah Uplands South	0	
4	Darling Plateau	Jarrah Uplands South East	3	
5	Darling Plateau	Karri Uplands	0	
6	Darling Plateau	Wandoo Uplands North	2	
7	Darling Plateau	Powder Bark Uplands	3	
8	Darling Plateau	Scarp	2	
9	Darling Plateau	Depression / Swamps North	3	
10	Darling Plateau	Depressions / Swamps South	0	
11	Darling Plateau	Depressions / Swamps East	2	
12	Darling Plateau	Depressions / Swamps South East	0	
13	Darling Plateau	Jarrah Valleys North	2	
14	Darling Plateau	Jarrah Valleys East	3	
15	Darling Plateau	Jarrah Valleys South	0	
16	Darling Plateau	Jarrah Valleys South East	3	
17	Darling Plateau	Karri Valleys	0	
18	Darling Plateau	Wandoo Valleys North	2	
19	Darling Plateau	Powder Bark Wandoo Valleys	3	
20	Darling Plateau	Granite Outcrops	0	
21	Various Systems	Esturies / Open Water	0	
22	Collie Plain	Uplands	3	
23	Collie Plain	Depressions / Swamps	3	
24	Dandaragan Plateau	Uplands	3	
25	Dandaragan Plateau	Valleys	3	
26	Swan Coastal Plain	Uplands	3	
27	Swan Coastal Plain	Valleys	3	
28	Southern Plains	Jarrah	1	
29	Southern Plains	Karri	0	
30	Southern Plains	Heath / Sedgeland	1	
31	South Coast Dunes	South Coast Dunes	0	
32	Blackwood Plateau	Jarrah Uplands	0	
33	Blackwood Plateau	Karri Uplands	0	
34	Blackwood Plateau	Depressions / Swamps	1	
35	Blackwood Plateau	Valleys	0	
36	Margaret River Plateau	Jarrah Uplands	0	
37	Margaret River Plateau	Karri Uplands	0	
38	Margaret River Plateau	Jarrah Valleys	0	
39	Margaret River Plateau	Karri Valleys	0	
40	Lewin Naturalist Coast	Jarrah	0	
41	Lewin Naturalist Coast	Marri/Karri	0	
42	Lewin Naturalist Coast	Coast Heath	2	
43	Scott Coastal Plain	Uplands	1	
44	Scott Coastal Plain	Valleys / Swamps	1	
45	Redmond	Uplands	3	
46	Redmond	Valleys	1	
47	Unicup	Jarrah Uplands	3	
48	Unicup	Wandoo Uplands	3	
49	Unicup	Jarrah Valleys	3	
50	Unicup	Wandoo Valleys	3	
51	Unicup	Scrubland	3	
53	Darling Plateau	Wandoo Uplands South	2	
54	Darling Plateau	Wandoo Valleys South	2	

## Appendix 2b

Fauna Habitat ID	FDIS LAND SYSTEM	FDIS LANDSCAPE UNIT	SCORE	Origin
Square-tailed Kite				
1	Darling Plateau	Jarrah Uplands North	0	
2	Darling Plateau	Jarrah Uplands East	0	
3	Darling Plateau	Jarrah Uplands South	0	
4	Darling Plateau	Jarrah Uplands South East	1	
5	Darling Plateau	Karri Uplands	0	
6	Darling Plateau	Wandoo Uplands North	1	
7	Darling Plateau	Powder Bark Uplands	1	
8	Darling Plateau	Scarp	0	
9	Darling Plateau	Depression / Swamps North	1	
10	Darling Plateau	Depressions / Swamps South	0	
11	Darling Plateau	Depressions / Swamps East	1	
12	Darling Plateau	Depressions / Swamps South East	1	
13	Darling Plateau	Jarrah Valleys North	0	
14	Darling Plateau	Jarrah Valleys East	1	
15	Darling Plateau	Jarrah Valleys South	0	
16	Darling Plateau	Jarrah Valleys South East	0	
17	Darling Plateau	Karri Valleys	0	
18	Darling Plateau	Wandoo Valleys North	1	
19	Darling Plateau	Powder Bark Wandoo Valleys	1	
20	Darling Plateau	Granite Outcrops	1	
21	Various Systems	Esturies / Open Water	0	
22	Collie Plain	Uplands	1	
23	Collie Plain	Depressions / Swamps	1	
24	Dandaragan Plateau	Uplands	1	
25	Dandaragan Plateau	Valleys	1	
26	Swan Coastal Plain	Uplands	1	
27	Swan Coastal Plain	Valleys	1	
28	Southern Plains	Jarrah	1	
29	Southern Plains	Karri	0	
30	Southern Plains	Heath / Sedgeland	0	
31	South Coast Dunes	South Coast Dunes	1	
32	Blackwood Plateau	Jarrah Uplands	0	
33	Blackwood Plateau	Karri Uplands	0	
34	Blackwood Plateau	Depressions / Swamps	1	
35	Blackwood Plateau	Valleys	0	
36	Margaret River Plateau	Jarrah Uplands	0	
37	Margaret River Plateau	Karri Uplands	0	
38	Margaret River Plateau	Jarrah Valleys	0	
39	Margaret River Plateau	Karri Valleys	0	
40	Lewin Naturalist Coast	Jarrah	0	
41	Lewin Naturalist Coast	Marri/Karri	0	
42	Lewin Naturalist Coast	Coast Heath	0	
43	Scott Coastal Plain	Uplands	1	
44	Scott Coastal Plain	Valleys / Swamps	0	
45	Redmond	Uplands	1	
46	Redmond	Valleys	0	
47	Unicup	Jarrah Uplands	1	
48	Unicup	Wandoo Uplands	1	
49	Unicup	Jarrah Valleys	1	
50	Unicup	Wandoo Valleys	1	
51	Unicup	Scrubland	1	
53	Darling Plateau	Wandoo Uplands South	1	
54	Darling Plateau	Wandoo Valleys South	1	

## Appendix 2b

Fauna Habitat ID	FDIS LAND SYSTEM	FDIS LANDSCAPE UNIT	SCORE	Origin
Whistling Kite				
1	Darling Plateau	Jarrah Uplands North	3	
2	Darling Plateau	Jarrah Uplands East	3	
3	Darling Plateau	Jarrah Uplands South	3	
4	Darling Plateau	Jarrah Uplands South East	3	
5	Darling Plateau	Karri Uplands	2	
6	Darling Plateau	Wandoo Uplands North	3	
7	Darling Plateau	Powder Bark Uplands	3	
8	Darling Plateau	Scarp	3	
9	Darling Plateau	Depression / Swamps North	3	
10	Darling Plateau	Depressions / Swamps South	3	
11	Darling Plateau	Depressions / Swamps East	3	
12	Darling Plateau	Depressions / Swamps South East	3	
13	Darling Plateau	Jarrah Valleys North	3	
14	Darling Plateau	Jarrah Valleys East	3	
15	Darling Plateau	Jarrah Valleys South	3	
16	Darling Plateau	Jarrah Valleys South East	3	
17	Darling Plateau	Karri Valleys	2	
18	Darling Plateau	Wandoo Valleys North	3	
19	Darling Plateau	Powder Bark Wandoo Valleys	3	
20	Darling Plateau	Granite Outcrops	3	
21	Various Systems	Esturies / Open Water	0	
22	Collie Plain	Uplands	3	
23	Collie Plain	Depressions / Swamps	3	
24	Dandaragan Plateau	Uplands	3	
25	Dandaragan Plateau	Valleys	3	
26	Swan Coastal Plain	Uplands	3	
27	Swan Coastal Plain	Valleys	3	
28	Southern Plains	Jarrah	3	
29	Southern Plains	Karri	2	
30	Southern Plains	Heath / Sedgeland	3	
31	South Coast Dunes	South Coast Dunes	3	
32	Blackwood Plateau	Jarrah Uplands	3	
33	Blackwood Plateau	Karri Uplands	2	
34	Blackwood Plateau	Depressions / Swamps	3	
35	Blackwood Plateau	Valleys	3	
36	Margaret River Plateau	Jarrah Uplands	3	
37	Margaret River Plateau	Karri Uplands	2	
38	Margaret River Plateau	Jarrah Valleys	3	
39	Margaret River Plateau	Karri Valleys	2	
40	Lewin Naturalist Coast	Jarrah	3	
41	Lewin Naturalist Coast	Marri/Karri	2	
42	Lewin Naturalist Coast	Coast Heath	3	
43	Scott Coastal Plain	Uplands	3	
44	Scott Coastal Plain	Valleys / Swamps	3	
45	Redmond	Uplands	3	
46	Redmond	Valleys	3	
47	Unicup	Jarrah Uplands	3	
48	Unicup	Wandoo Uplands	3	
49	Unicup	Jarrah Valleys	3	
50	Unicup	Wandoo Valleys	3	
51	Unicup	Scrubland	3	
53	Darling Plateau	Wandoo Uplands South	3	
54	Darling Plateau	Wandoo Valleys South	3	

## Appendix 2b

Fauna Habitat ID	FDIS LAND SYSTEM	FDIS LANDSCAPE UNIT	SCORE	Origin
Brown Goshawk				
1	Darling Plateau	Jarrah Uplands North	3	
2	Darling Plateau	Jarrah Uplands East	3	
3	Darling Plateau	Jarrah Uplands South	3	
4	Darling Plateau	Jarrah Uplands South East	3	
5	Darling Plateau	Karri Uplands	3	
6	Darling Plateau	Wandoo Uplands North	3	
7	Darling Plateau	Powder Bark Uplands	3	
8	Darling Plateau	Scarp	3	
9	Darling Plateau	Depression / Swamps North	3	
10	Darling Plateau	Depressions / Swamps South	3	
11	Darling Plateau	Depressions / Swamps East	3	
12	Darling Plateau	Depressions / Swamps South East	3	
13	Darling Plateau	Jarrah Valleys North	3	
14	Darling Plateau	Jarrah Valleys East	3	
15	Darling Plateau	Jarrah Valleys South	3	
16	Darling Plateau	Jarrah Valleys South East	3	
17	Darling Plateau	Karri Valleys	3	
18	Darling Plateau	Wandoo Valleys North	3	
19	Darling Plateau	Powder Bark Wandoo Valleys	3	
20	Darling Plateau	Granite Outcrops	3	
21	Various Systems	Esturies / Open Water	0	
22	Collie Plain	Uplands	3	
23	Collie Plain	Depressions / Swamps	3	
24	Dandaragan Plateau	Uplands	3	
25	Dandaragan Plateau	Valleys	3	
26	Swan Coastal Plain	Uplands	3	
27	Swan Coastal Plain	Valleys	3	
28	Southern Plains	Jarrah	3	
29	Southern Plains	Karri	3	
30	Southern Plains	Heath / Sedgeland	3	
31	South Coast Dunes	South Coast Dunes	3	
32	Blackwood Plateau	Jarrah Uplands	3	
33	Blackwood Plateau	Karri Uplands	3	
34	Blackwood Plateau	Depressions / Swamps	3	
35	Blackwood Plateau	Valleys	3	
36	Margaret River Plateau	Jarrah Uplands	3	
37	Margaret River Plateau	Karri Uplands	3	
38	Margaret River Plateau	Jarrah Valleys	3	
39	Margaret River Plateau	Karri Valleys	3	
40	Lewin Naturalist Coast	Jarrah	3	
41	Lewin Naturalist Coast	Marri/Karri	3	
42	Lewin Naturalist Coast	Coast Heath	3	
43	Scott Coastal Plain	Uplands	3	
44	Scott Coastal Plain	Valleys / Swamps	3	
45	Redmond	Uplands	3	
46	Redmond	Valleys	3	
47	Unicup	Jarrah Uplands	3	
48	Unicup	Wandoo Uplands	3	
49	Unicup	Jarrah Valleys	3	
50	Unicup	Wandoo Valleys	3	
51	Unicup	Scrubland	3	
53	Darling Plateau	Wandoo Uplands South	3	
54	Darling Plateau	Wandoo Valleys South	3	

## Appendix 2b

Fauna Habitat ID	FDIS LAND SYSTEM	FDIS LANDSCAPE UNIT	SCORE	Origin
Collared Sparrowhawk				
1	Darling Plateau	Jarrah Uplands North	2	
2	Darling Plateau	Jarrah Uplands East	3	
3	Darling Plateau	Jarrah Uplands South	2	
4	Darling Plateau	Jarrah Uplands South East	3	
5	Darling Plateau	Karri Uplands	2	
6	Darling Plateau	Wandoo Uplands North	3	
7	Darling Plateau	Powder Bark Uplands	3	
8	Darling Plateau	Scarp	2	
9	Darling Plateau	Depression / Swamps North	3	
10	Darling Plateau	Depressions / Swamps South	2	
11	Darling Plateau	Depressions / Swamps East	2	
12	Darling Plateau	Depressions / Swamps South East	2	
13	Darling Plateau	Jarrah Valleys North	2	
14	Darling Plateau	Jarrah Valleys East	3	
15	Darling Plateau	Jarrah Valleys South	2	
16	Darling Plateau	Jarrah Valleys South East	3	
17	Darling Plateau	Karri Valleys	2	
18	Darling Plateau	Wandoo Valleys North	3	
19	Darling Plateau	Powder Bark Wandoo Valleys	3	
20	Darling Plateau	Granite Outcrops	3	
21	Various Systems	Esturies / Open Water	0	
22	Collie Plain	Uplands	3	
23	Collie Plain	Depressions / Swamps	2	
24	Dandaragan Plateau	Uplands	3	
25	Dandaragan Plateau	Valleys	3	
26	Swan Coastal Plain	Uplands	3	
27	Swan Coastal Plain	Valleys	3	
28	Southern Plains	Jarrah	3	
29	Southern Plains	Karri	2	
30	Southern Plains	Heath / Sedgeland	3	
31	South Coast Dunes	South Coast Dunes	2	
32	Blackwood Plateau	Jarrah Uplands	2	
33	Blackwood Plateau	Karri Uplands	2	
34	Blackwood Plateau	Depressions / Swamps	3	
35	Blackwood Plateau	Valleys	2	
36	Margaret River Plateau	Jarrah Uplands	2	
37	Margaret River Plateau	Karri Uplands	2	
38	Margaret River Plateau	Jarrah Valleys	2	
39	Margaret River Plateau	Karri Valleys	2	
40	Lewin Naturalist Coast	Jarrah	2	
41	Lewin Naturalist Coast	Marri/Karri	2	
42	Lewin Naturalist Coast	Coast Heath	2	
43	Scott Coastal Plain	Uplands	3	
44	Scott Coastal Plain	Valleys / Swamps	3	
45	Redmond	Uplands	3	
46	Redmond	Valleys	3	
47	Unicup	Jarrah Uplands	3	
48	Unicup	Wandoo Uplands	3	
49	Unicup	Jarrah Valleys	3	
50	Unicup	Wandoo Valleys	3	
51	Unicup	Scrubland	3	
53	Darling Plateau	Wandoo Uplands South	3	
54	Darling Plateau	Wandoo Valleys South	3	

## Appendix 2b

Fauna Habitat ID	FDIS LAND SYSTEM	FDIS LANDSCAPE UNIT	SCORE	Origin
Wedge-tailed Eagle				
1	Darling Plateau	Jarrah Uplands North	3	
2	Darling Plateau	Jarrah Uplands East	3	
3	Darling Plateau	Jarrah Uplands South	3	
4	Darling Plateau	Jarrah Uplands South East	3	
5	Darling Plateau	Karri Uplands	3	
6	Darling Plateau	Wandoo Uplands North	3	
7	Darling Plateau	Powder Bark Uplands	3	
8	Darling Plateau	Scarp	3	
9	Darling Plateau	Depression / Swamps North	3	
10	Darling Plateau	Depressions / Swamps South	3	
11	Darling Plateau	Depressions / Swamps East	3	
12	Darling Plateau	Depressions / Swamps South East	3	
13	Darling Plateau	Jarrah Valleys North	3	
14	Darling Plateau	Jarrah Valleys East	3	
15	Darling Plateau	Jarrah Valleys South	3	
16	Darling Plateau	Jarrah Valleys South East	3	
17	Darling Plateau	Karri Valleys	3	
18	Darling Plateau	Wandoo Valleys North	3	
19	Darling Plateau	Powder Bark Wandoo Valleys	3	
20	Darling Plateau	Granite Outcrops	3	
21	Various Systems	Esturies / Open Water	0	
22	Collie Plain	Uplands	3	
23	Collie Plain	Depressions / Swamps	3	
24	Dandaragan Plateau	Uplands	3	
25	Dandaragan Plateau	Valleys	3	
26	Swan Coastal Plain	Uplands	3	
27	Swan Coastal Plain	Valleys	3	
28	Southern Plains	Jarrah	3	
29	Southern Plains	Karri	3	
30	Southern Plains	Heath / Sedgeland	3	
31	South Coast Dunes	South Coast Dunes	3	
32	Blackwood Plateau	Jarrah Uplands	3	
33	Blackwood Plateau	Karri Uplands	3	
34	Blackwood Plateau	Depressions / Swamps	3	
35	Blackwood Plateau	Valleys	3	
36	Margaret River Plateau	Jarrah Uplands	3	
37	Margaret River Plateau	Karri Uplands	3	
38	Margaret River Plateau	Jarrah Valleys	3	
39	Margaret River Plateau	Karri Valleys	3	
40	Lewin Naturalist Coast	Jarrah	3	
41	Lewin Naturalist Coast	Marri/Karri	3	
42	Lewin Naturalist Coast	Coast Heath	3	
43	Scott Coastal Plain	Uplands	3	
44	Scott Coastal Plain	Valleys / Swamps	3	
45	Redmond	Uplands	3	
46	Redmond	Valleys	3	
47	Unicup	Jarrah Uplands	3	
48	Unicup	Wandoo Uplands	3	
49	Unicup	Jarrah Valleys	3	
50	Unicup	Wandoo Valleys	3	
51	Unicup	Scrubland	3	
53	Darling Plateau	Wandoo Uplands South	3	
54	Darling Plateau	Wandoo Valleys South	3	

## Appendix 2b

Fauna Habitat ID	FDIS LAND SYSTEM	FDIS LANDSCAPE UNIT	SCORE	Origin
Little Eagle				
1	Darling Plateau	Jarrah Uplands North	2	
2	Darling Plateau	Jarrah Uplands East	3	
3	Darling Plateau	Jarrah Uplands South	2	
4	Darling Plateau	Jarrah Uplands South East	3	
5	Darling Plateau	Karri Uplands	1	
6	Darling Plateau	Wandoo Uplands North	2	
7	Darling Plateau	Powder Bark Uplands	3	
8	Darling Plateau	Scarp	2	
9	Darling Plateau	Depression / Swamps North	3	
10	Darling Plateau	Depressions / Swamps South	3	
11	Darling Plateau	Depressions / Swamps East	3	
12	Darling Plateau	Depressions / Swamps South East	3	
13	Darling Plateau	Jarrah Valleys North	2	
14	Darling Plateau	Jarrah Valleys East	3	
15	Darling Plateau	Jarrah Valleys South	2	
16	Darling Plateau	Jarrah Valleys South East	3	
17	Darling Plateau	Karri Valleys	1	
18	Darling Plateau	Wandoo Valleys North	2	
19	Darling Plateau	Powder Bark Wandoo Valleys	3	
20	Darling Plateau	Granite Outcrops	3	
21	Various Systems	Esturies / Open Water	0	
22	Collie Plain	Uplands	3	
23	Collie Plain	Depressions / Swamps	3	
24	Dandaragan Plateau	Uplands	3	
25	Dandaragan Plateau	Valleys	3	
26	Swan Coastal Plain	Uplands	3	
27	Swan Coastal Plain	Valleys	3	
28	Southern Plains	Jarrah	2	
29	Southern Plains	Karri	1	
30	Southern Plains	Heath / Sedgeland	2	
31	South Coast Dunes	South Coast Dunes	1	
32	Blackwood Plateau	Jarrah Uplands	2	
33	Blackwood Plateau	Karri Uplands	1	
34	Blackwood Plateau	Depressions / Swamps	2	
35	Blackwood Plateau	Valleys	2	
36	Margaret River Plateau	Jarrah Uplands	2	
37	Margaret River Plateau	Karri Uplands	1	
38	Margaret River Plateau	Jarrah Valleys	2	
39	Margaret River Plateau	Karri Valleys	1	
40	Lewin Naturalist Coast	Jarrah	2	
41	Lewin Naturalist Coast	Marri/Karri	1	
42	Lewin Naturalist Coast	Coast Heath	2	
43	Scott Coastal Plain	Uplands	2	
44	Scott Coastal Plain	Valleys / Swamps	2	
45	Redmond	Uplands	3	
46	Redmond	Valleys	2	
47	Unicup	Jarrah Uplands	3	
48	Unicup	Wandoo Uplands	3	
49	Unicup	Jarrah Valleys	3	
50	Unicup	Wandoo Valleys	3	
51	Unicup	Scrubland	3	
53	Darling Plateau	Wandoo Uplands South	2	
54	Darling Plateau	Wandoo Valleys South	2	

## Appendix 2b

Fauna Habitat ID	FDIS LAND SYSTEM	FDIS LANDSCAPE UNIT	SCORE	Origin
Spotted Harrier				
1	Darling Plateau	Jarrah Uplands North	0	
2	Darling Plateau	Jarrah Uplands East	0	
3	Darling Plateau	Jarrah Uplands South	0	
4	Darling Plateau	Jarrah Uplands South East	0	
5	Darling Plateau	Karri Uplands	0	
6	Darling Plateau	Wandoo Uplands North	0	
7	Darling Plateau	Powder Bark Uplands	0	
8	Darling Plateau	Scarp	2	
9	Darling Plateau	Depression / Swamps North	0	
10	Darling Plateau	Depressions / Swamps South	2	
11	Darling Plateau	Depressions / Swamps East	0	
12	Darling Plateau	Depressions / Swamps South East	2	
13	Darling Plateau	Jarrah Valleys North	0	
14	Darling Plateau	Jarrah Valleys East	0	
15	Darling Plateau	Jarrah Valleys South	0	
16	Darling Plateau	Jarrah Valleys South East	0	
17	Darling Plateau	Karri Valleys	0	
18	Darling Plateau	Wandoo Valleys North	0	
19	Darling Plateau	Powder Bark Wandoo Valleys	0	
20	Darling Plateau	Granite Outcrops	0	
21	Various Systems	Esturies / Open Water	0	
22	Collie Plain	Uplands	2	
23	Collie Plain	Depressions / Swamps	2	
24	Dandaragan Plateau	Uplands	0	
25	Dandaragan Plateau	Valleys	0	
26	Swan Coastal Plain	Uplands	1	
27	Swan Coastal Plain	Valleys	2	
28	Southern Plains	Jarrah	1	
29	Southern Plains	Karri	0	
30	Southern Plains	Heath / Sedgeland	2	
31	South Coast Dunes	South Coast Dunes	2	
32	Blackwood Plateau	Jarrah Uplands	0	
33	Blackwood Plateau	Karri Uplands	0	
34	Blackwood Plateau	Depressions / Swamps	2	
35	Blackwood Plateau	Valleys	0	
36	Margaret River Plateau	Jarrah Uplands	0	
37	Margaret River Plateau	Karri Uplands	0	
38	Margaret River Plateau	Jarrah Valleys	0	
39	Margaret River Plateau	Karri Valleys	0	
40	Lewin Naturalist Coast	Jarrah	0	
41	Lewin Naturalist Coast	Marri/Karri	0	
42	Lewin Naturalist Coast	Coast Heath	2	
43	Scott Coastal Plain	Uplands	1	
44	Scott Coastal Plain	Valleys / Swamps	2	
45	Redmond	Uplands	0	
46	Redmond	Valleys	2	
47	Unicup	Jarrah Uplands	0	
48	Unicup	Wandoo Uplands	0	
49	Unicup	Jarrah Valleys	0	
50	Unicup	Wandoo Valleys	0	
51	Unicup	Scrubland	0	
53	Darling Plateau	Wandoo Uplands South	0	
54	Darling Plateau	Wandoo Valleys South	0	



## Appendix 2b

Fauna Habitat ID	FDIS LAND SYSTEM	FDIS LANDSCAPE UNIT	SCORE	Origin
Marsh Harrier				
1	Darling Plateau	Jarrah Uplands North	0	
2	Darling Plateau	Jarrah Uplands East	0	
3	Darling Plateau	Jarrah Uplands South	0	
4	Darling Plateau	Jarrah Uplands South East	0	
5	Darling Plateau	Karri Uplands	0	
6	Darling Plateau	Wandoo Uplands North	0	
7	Darling Plateau	Powder Bark Uplands	0	
8	Darling Plateau	Scarp	0	
9	Darling Plateau	Depression / Swamps North	1	
10	Darling Plateau	Depressions / Swamps South	2	
11	Darling Plateau	Depressions / Swamps East	1	
12	Darling Plateau	Depressions / Swamps South East	2	
13	Darling Plateau	Jarrah Valleys North	0	
14	Darling Plateau	Jarrah Valleys East	0	
15	Darling Plateau	Jarrah Valleys South	0	
16	Darling Plateau	Jarrah Valleys South East	0	
17	Darling Plateau	Karri Valleys	0	
18	Darling Plateau	Wandoo Valleys North	0	
19	Darling Plateau	Powder Bark Wandoo Valleys	0	
20	Darling Plateau	Granite Outcrops	0	
21	Various Systems	Esturies / Open Water	0	
22	Collie Plain	Uplands	0	
23	Collie Plain	Depressions / Swamps	2	
24	Dandaragan Plateau	Uplands	0	
25	Dandaragan Plateau	Valleys	0	
26	Swan Coastal Plain	Uplands	1	
27	Swan Coastal Plain	Valleys	1	
28	Southern Plains	Jarrah	1	
29	Southern Plains	Karri	0	
30	Southern Plains	Heath / Sedgeland	2	
31	South Coast Dunes	South Coast Dunes	2	
32	Blackwood Plateau	Jarrah Uplands	0	
33	Blackwood Plateau	Karri Uplands	0	
34	Blackwood Plateau	Depressions / Swamps	2	
35	Blackwood Plateau	Valleys	0	
36	Margaret River Plateau	Jarrah Uplands	0	
37	Margaret River Plateau	Karri Uplands	0	
38	Margaret River Plateau	Jarrah Valleys	0	
39	Margaret River Plateau	Karri Valleys	0	
40	Lewin Naturalist Coast	Jarrah	0	
41	Lewin Naturalist Coast	Marri/Karri	0	
42	Lewin Naturalist Coast	Coast Heath	2	
43	Scott Coastal Plain	Uplands	2	
44	Scott Coastal Plain	Valleys / Swamps	1	
45	Redmond	Uplands	0	
46	Redmond	Valleys	2	
47	Unicup	Jarrah Uplands	0	
48	Unicup	Wandoo Uplands	0	
49	Unicup	Jarrah Valleys	0	
50	Unicup	Wandoo Valleys	0	
51	Unicup	Scrubland	0	
53	Darling Plateau	Wandoo Uplands South	0	
54	Darling Plateau	Wandoo Valleys South	0	

## Appendix 2b

Fauna Habitat ID	FDIS LAND SYSTEM	FDIS LANDSCAPE UNIT	SCORE	Origin
Peregrine Falcon				
1	Darling Plateau	Jarrah Uplands North	1	
2	Darling Plateau	Jarrah Uplands East	1	
3	Darling Plateau	Jarrah Uplands South	1	
4	Darling Plateau	Jarrah Uplands South East	1	
5	Darling Plateau	Karri Uplands	0	
6	Darling Plateau	Wandoo Uplands North	1	
7	Darling Plateau	Powder Bark Uplands	0	
8	Darling Plateau	Scarp	1	
9	Darling Plateau	Depression / Swamps North	2	
10	Darling Plateau	Depressions / Swamps South	2	
11	Darling Plateau	Depressions / Swamps East	0	
12	Darling Plateau	Depressions / Swamps South East	2	
13	Darling Plateau	Jarrah Valleys North	0	
14	Darling Plateau	Jarrah Valleys East	1	
15	Darling Plateau	Jarrah Valleys South	0	
16	Darling Plateau	Jarrah Valleys South East	1	
17	Darling Plateau	Karri Valleys	0	
18	Darling Plateau	Wandoo Valleys North	1	
19	Darling Plateau	Powder Bark Wandoo Valleys	0	
20	Darling Plateau	Granite Outcrops	2	
21	Various Systems	Esturies / Open Water	0	
22	Collie Plain	Uplands	1	
23	Collie Plain	Depressions / Swamps	1	
24	Dandaragan Plateau	Uplands	1	
25	Dandaragan Plateau	Valleys	1	
26	Swan Coastal Plain	Uplands	1	
27	Swan Coastal Plain	Valleys	1	
28	Southern Plains	Jarrah	2	
29	Southern Plains	Karri	0	
30	Southern Plains	Heath / Sedgeland	1	
31	South Coast Dunes	South Coast Dunes	2	
32	Blackwood Plateau	Jarrah Uplands	1	
33	Blackwood Plateau	Karri Uplands	0	
34	Blackwood Plateau	Depressions / Swamps	1	
35	Blackwood Plateau	Valleys	0	
36	Margaret River Plateau	Jarrah Uplands	1	
37	Margaret River Plateau	Karri Uplands	0	
38	Margaret River Plateau	Jarrah Valleys	0	
39	Margaret River Plateau	Karri Valleys	0	
40	Lewin Naturalist Coast	Jarrah	1	
41	Lewin Naturalist Coast	Marri/Karri	0	
42	Lewin Naturalist Coast	Coast Heath	1	
43	Scott Coastal Plain	Uplands	2	
44	Scott Coastal Plain	Valleys / Swamps	1	
45	Redmond	Uplands	2	
46	Redmond	Valleys	1	
47	Unicup	Jarrah Uplands	1	
48	Unicup	Wandoo Uplands	1	
49	Unicup	Jarrah Valleys	1	
50	Unicup	Wandoo Valleys	1	
51	Unicup	Scrubland	1	
53	Darling Plateau	Wandoo Uplands South	1	
54	Darling Plateau	Wandoo Valleys South	1	

## Appendix 2b

Fauna Habitat ID	FDIS LAND SYSTEM	FDIS LANDSCAPE UNIT	SCORE	Origin
Australian Hobby				
1	Darling Plateau	Jarrah Uplands North	2	
2	Darling Plateau	Jarrah Uplands East	1	
3	Darling Plateau	Jarrah Uplands South	0	
4	Darling Plateau	Jarrah Uplands South East	1	
5	Darling Plateau	Karri Uplands	0	
6	Darling Plateau	Wandoo Uplands North	1	
7	Darling Plateau	Powder Bark Uplands	1	
8	Darling Plateau	Scarp	2	
9	Darling Plateau	Depression / Swamps North	2	
10	Darling Plateau	Depressions / Swamps South	1	
11	Darling Plateau	Depressions / Swamps East	1	
12	Darling Plateau	Depressions / Swamps South East	1	
13	Darling Plateau	Jarrah Valleys North	2	
14	Darling Plateau	Jarrah Valleys East	1	
15	Darling Plateau	Jarrah Valleys South	0	
16	Darling Plateau	Jarrah Valleys South East	1	
17	Darling Plateau	Karri Valleys	0	
18	Darling Plateau	Wandoo Valleys North	1	
19	Darling Plateau	Powder Bark Wandoo Valleys	1	
20	Darling Plateau	Granite Outcrops	1	
21	Various Systems	Esturies / Open Water	0	
22	Collie Plain	Uplands	2	
23	Collie Plain	Depressions / Swamps	1	
24	Dandaragan Plateau	Uplands	1	
25	Dandaragan Plateau	Valleys	1	
26	Swan Coastal Plain	Uplands	1	
27	Swan Coastal Plain	Valleys	1	
28	Southern Plains	Jarrah	2	
29	Southern Plains	Karri	0	
30	Southern Plains	Heath / Sedgeland	2	
31	South Coast Dunes	South Coast Dunes	2	
32	Blackwood Plateau	Jarrah Uplands	0	
33	Blackwood Plateau	Karri Uplands	0	
34	Blackwood Plateau	Depressions / Swamps	1	
35	Blackwood Plateau	Valleys	0	
36	Margaret River Plateau	Jarrah Uplands	0	
37	Margaret River Plateau	Karri Uplands	0	
38	Margaret River Plateau	Jarrah Valleys	0	
39	Margaret River Plateau	Karri Valleys	0	
40	Lewin Naturalist Coast	Jarrah	0	
41	Lewin Naturalist Coast	Marri/Karri	0	
42	Lewin Naturalist Coast	Coast Heath	1	
43	Scott Coastal Plain	Uplands	2	
44	Scott Coastal Plain	Valleys / Swamps	2	
45	Redmond	Uplands	2	
46	Redmond	Valleys	2	
47	Unicup	Jarrah Uplands	1	
48	Unicup	Wandoo Uplands	1	
49	Unicup	Jarrah Valleys	1	
50	Unicup	Wandoo Valleys	1	
51	Unicup	Scrubland	1	
53	Darling Plateau	Wandoo Uplands South	1	
54	Darling Plateau	Wandoo Valleys South	1	

## Appendix 2b

Fauna Habitat ID	FDIS LAND SYSTEM	FDIS LANDSCAPE UNIT	SCORE	Origin
Brown Falcon				
1	Darling Plateau	Jarrah Uplands North	3	
2	Darling Plateau	Jarrah Uplands East	3	
3	Darling Plateau	Jarrah Uplands South	2	
4	Darling Plateau	Jarrah Uplands South East	3	
5	Darling Plateau	Karri Uplands	2	
6	Darling Plateau	Wandoo Uplands North	3	
7	Darling Plateau	Powder Bark Uplands	3	
8	Darling Plateau	Scarp	3	
9	Darling Plateau	Depression / Swamps North	3	
10	Darling Plateau	Depressions / Swamps South	3	
11	Darling Plateau	Depressions / Swamps East	3	
12	Darling Plateau	Depressions / Swamps South East	3	
13	Darling Plateau	Jarrah Valleys North	3	
14	Darling Plateau	Jarrah Valleys East	3	
15	Darling Plateau	Jarrah Valleys South	2	
16	Darling Plateau	Jarrah Valleys South East	3	
17	Darling Plateau	Karri Valleys	2	
18	Darling Plateau	Wandoo Valleys North	3	
19	Darling Plateau	Powder Bark Wandoo Valleys	3	
20	Darling Plateau	Granite Outcrops	3	
21	Various Systems	Esturies / Open Water	0	
22	Collie Plain	Uplands	3	
23	Collie Plain	Depressions / Swamps	3	
24	Dandaragan Plateau	Uplands	3	
25	Dandaragan Plateau	Valleys	3	
26	Swan Coastal Plain	Uplands	3	
27	Swan Coastal Plain	Valleys	3	
28	Southern Plains	Jarrah	3	
29	Southern Plains	Karri	2	
30	Southern Plains	Heath / Sedgeland	3	
31	South Coast Dunes	South Coast Dunes	3	
32	Blackwood Plateau	Jarrah Uplands	3	
33	Blackwood Plateau	Karri Uplands	2	
34	Blackwood Plateau	Depressions / Swamps	3	
35	Blackwood Plateau	Valleys	3	
36	Margaret River Plateau	Jarrah Uplands	3	
37	Margaret River Plateau	Karri Uplands	2	
38	Margaret River Plateau	Jarrah Valleys	3	
39	Margaret River Plateau	Karri Valleys	2	
40	Lewin Naturalist Coast	Jarrah	3	
41	Lewin Naturalist Coast	Marri/Karri	2	
42	Lewin Naturalist Coast	Coast Heath	3	
43	Scott Coastal Plain	Uplands	3	
44	Scott Coastal Plain	Valleys / Swamps	3	
45	Redmond	Uplands	3	
46	Redmond	Valleys	3	
47	Unicup	Jarrah Uplands	3	
48	Unicup	Wandoo Uplands	3	
49	Unicup	Jarrah Valleys	3	
50	Unicup	Wandoo Valleys	3	
51	Unicup	Scrubland	3	
53	Darling Plateau	Wandoo Uplands South	3	
54	Darling Plateau	Wandoo Valleys South	3	

## Appendix 2b

Fauna Habitat ID	FDIS LAND SYSTEM	FDIS LANDSCAPE UNIT	SCORE	Origin
Australian Kestrel				
1	Darling Plateau	Jarrah Uplands North	2	
2	Darling Plateau	Jarrah Uplands East	3	
3	Darling Plateau	Jarrah Uplands South	0	
4	Darling Plateau	Jarrah Uplands South East	3	
5	Darling Plateau	Karri Uplands	0	
6	Darling Plateau	Wandoo Uplands North	2	
7	Darling Plateau	Powder Bark Uplands	2	
8	Darling Plateau	Scarp	2	
9	Darling Plateau	Depression / Swamps North	3	
10	Darling Plateau	Depressions / Swamps South	2	
11	Darling Plateau	Depressions / Swamps East	2	
12	Darling Plateau	Depressions / Swamps South East	2	
13	Darling Plateau	Jarrah Valleys North	2	
14	Darling Plateau	Jarrah Valleys East	3	
15	Darling Plateau	Jarrah Valleys South	0	
16	Darling Plateau	Jarrah Valleys South East	3	
17	Darling Plateau	Karri Valleys	0	
18	Darling Plateau	Wandoo Valleys North	2	
19	Darling Plateau	Powder Bark Wandoo Valleys	2	
20	Darling Plateau	Granite Outcrops	2	
21	Various Systems	Esturies / Open Water	0	
22	Collie Plain	Uplands	3	
23	Collie Plain	Depressions / Swamps	3	
24	Dandaragan Plateau	Uplands	2	
25	Dandaragan Plateau	Valleys	2	
26	Swan Coastal Plain	Uplands	3	
27	Swan Coastal Plain	Valleys	3	
28	Southern Plains	Jarrah	3	
29	Southern Plains	Karri	0	
30	Southern Plains	Heath / Sedgeland	3	
31	South Coast Dunes	South Coast Dunes	3	
32	Blackwood Plateau	Jarrah Uplands	0	
33	Blackwood Plateau	Karri Uplands	0	
34	Blackwood Plateau	Depressions / Swamps	3	
35	Blackwood Plateau	Valleys	0	
36	Margaret River Plateau	Jarrah Uplands	0	
37	Margaret River Plateau	Karri Uplands	0	
38	Margaret River Plateau	Jarrah Valleys	0	
39	Margaret River Plateau	Karri Valleys	0	
40	Lewin Naturalist Coast	Jarrah	0	
41	Lewin Naturalist Coast	Marri/Karri	0	
42	Lewin Naturalist Coast	Coast Heath	3	
43	Scott Coastal Plain	Uplands	3	
44	Scott Coastal Plain	Valleys / Swamps	3	
45	Redmond	Uplands	3	
46	Redmond	Valleys	3	
47	Unicup	Jarrah Uplands	3	
48	Unicup	Wandoo Uplands	2	
49	Unicup	Jarrah Valleys	3	
50	Unicup	Wandoo Valleys	2	
51	Unicup	Scrubland	2	
53	Darling Plateau	Wandoo Uplands South	2	
54	Darling Plateau	Wandoo Valleys South	2	

## Appendix 2b

Fauna Habitat ID	FDIS LAND SYSTEM	FDIS LANDSCAPE UNIT	SCORE	Origin
Malleefowl				
1	Darling Plateau	Jarrah Uplands North	0	
2	Darling Plateau	Jarrah Uplands East	0	
3	Darling Plateau	Jarrah Uplands South	0	
4	Darling Plateau	Jarrah Uplands South East	0	
5	Darling Plateau	Karri Uplands	1	
6	Darling Plateau	Wandoo Uplands North	0	
7	Darling Plateau	Powder Bark Uplands	0	
8	Darling Plateau	Scarp	0	
9	Darling Plateau	Depression / Swamps North	0	
10	Darling Plateau	Depressions / Swamps South	1	
11	Darling Plateau	Depressions / Swamps East	0	
12	Darling Plateau	Depressions / Swamps South East	1	
13	Darling Plateau	Jarrah Valleys North	0	
14	Darling Plateau	Jarrah Valleys East	0	
15	Darling Plateau	Jarrah Valleys South	0	
16	Darling Plateau	Jarrah Valleys South East	0	
17	Darling Plateau	Karri Valleys	0	
18	Darling Plateau	Wandoo Valleys North	0	
19	Darling Plateau	Powder Bark Wandoo Valleys	0	
20	Darling Plateau	Granite Outcrops	0	
21	Various Systems	Esturies / Open Water	0	
22	Collie Plain	Uplands	0	
23	Collie Plain	Depressions / Swamps	0	
24	Dandaragan Plateau	Uplands	0	
25	Dandaragan Plateau	Valleys	0	
26	Swan Coastal Plain	Uplands	0	
27	Swan Coastal Plain	Valleys	0	
28	Southern Plains	Jarrah	0	
29	Southern Plains	Karri	0	
30	Southern Plains	Heath / Sedgeland	1	
31	South Coast Dunes	South Coast Dunes	0	
32	Blackwood Plateau	Jarrah Uplands	0	
33	Blackwood Plateau	Karri Uplands	0	
34	Blackwood Plateau	Depressions / Swamps	0	
35	Blackwood Plateau	Valleys	0	
36	Margaret River Plateau	Jarrah Uplands	0	
37	Margaret River Plateau	Karri Uplands	0	
38	Margaret River Plateau	Jarrah Valleys	0	
39	Margaret River Plateau	Karri Valleys	0	
40	Lewin Naturalist Coast	Jarrah	0	
41	Lewin Naturalist Coast	Marri/Karri	0	
42	Lewin Naturalist Coast	Coast Heath	0	
43	Scott Coastal Plain	Uplands	0	
44	Scott Coastal Plain	Valleys / Swamps	0	
45	Redmond	Uplands	0	
46	Redmond	Valleys	0	
47	Unicup	Jarrah Uplands	0	
48	Unicup	Wandoo Uplands	0	
49	Unicup	Jarrah Valleys	0	
50	Unicup	Wandoo Valleys	0	
51	Unicup	Scrubland	0	
53	Darling Plateau	Wandoo Uplands South	0	
54	Darling Plateau	Wandoo Valleys South	0	

## Appendix 2b

Fauna Habitat ID	FDIS LAND SYSTEM	FDIS LANDSCAPE UNIT	SCORE	Origin
Stubble Quail				
1	Darling Plateau	Jarrah Uplands North	0	
2	Darling Plateau	Jarrah Uplands East	2	
3	Darling Plateau	Jarrah Uplands South	0	
4	Darling Plateau	Jarrah Uplands South East	2	
5	Darling Plateau	Karri Uplands	0	
6	Darling Plateau	Wandoo Uplands North	2	
7	Darling Plateau	Powder Bark Uplands	2	
8	Darling Plateau	Scarp	0	
9	Darling Plateau	Depression / Swamps North	2	
10	Darling Plateau	Depressions / Swamps South	0	
11	Darling Plateau	Depressions / Swamps East	1	
12	Darling Plateau	Depressions / Swamps South East	1	
13	Darling Plateau	Jarrah Valleys North	0	
14	Darling Plateau	Jarrah Valleys East	2	
15	Darling Plateau	Jarrah Valleys South	0	
16	Darling Plateau	Jarrah Valleys South East	2	
17	Darling Plateau	Karri Valleys	0	
18	Darling Plateau	Wandoo Valleys North	2	
19	Darling Plateau	Powder Bark Wandoo Valleys	2	
20	Darling Plateau	Granite Outcrops	0	
21	Various Systems	Esturies / Open Water	0	
22	Collie Plain	Uplands	2	
23	Collie Plain	Depressions / Swamps	2	
24	Dandaragan Plateau	Uplands	2	
25	Dandaragan Plateau	Valleys	2	
26	Swan Coastal Plain	Uplands	1	
27	Swan Coastal Plain	Valleys	1	
28	Southern Plains	Jarrah	2	
29	Southern Plains	Karri	0	
30	Southern Plains	Heath / Sedgeland	2	
31	South Coast Dunes	South Coast Dunes	0	
32	Blackwood Plateau	Jarrah Uplands	0	
33	Blackwood Plateau	Karri Uplands	0	
34	Blackwood Plateau	Depressions / Swamps	2	
35	Blackwood Plateau	Valleys	0	
36	Margaret River Plateau	Jarrah Uplands	0	
37	Margaret River Plateau	Karri Uplands	0	
38	Margaret River Plateau	Jarrah Valleys	0	
39	Margaret River Plateau	Karri Valleys	0	
40	Lewin Naturalist Coast	Jarrah	0	
41	Lewin Naturalist Coast	Marri/Karri	0	
42	Lewin Naturalist Coast	Coast Heath	1	
43	Scott Coastal Plain	Uplands	2	
44	Scott Coastal Plain	Valleys / Swamps	2	
45	Redmond	Uplands	2	
46	Redmond	Valleys	2	
47	Unicup	Jarrah Uplands	2	
48	Unicup	Wandoo Uplands	2	
49	Unicup	Jarrah Valleys	2	
50	Unicup	Wandoo Valleys	2	
51	Unicup	Scrubland	2	
53	Darling Plateau	Wandoo Uplands South	2	
54	Darling Plateau	Wandoo Valleys South	2	

## Appendix 2b

Fauna Habitat ID	FDIS LAND SYSTEM	FDIS LANDSCAPE UNIT	SCORE	Origin
Brown Quail				
1	Darling Plateau	Jarrah Uplands North	2	
2	Darling Plateau	Jarrah Uplands East	2	
3	Darling Plateau	Jarrah Uplands South	2	
4	Darling Plateau	Jarrah Uplands South East	2	
5	Darling Plateau	Karri Uplands	1	
6	Darling Plateau	Wandoo Uplands North	2	
7	Darling Plateau	Powder Bark Uplands	2	
8	Darling Plateau	Scarp	2	
9	Darling Plateau	Depression / Swamps North	2	
10	Darling Plateau	Depressions / Swamps South	1	
11	Darling Plateau	Depressions / Swamps East	1	
12	Darling Plateau	Depressions / Swamps South East	1	
13	Darling Plateau	Jarrah Valleys North	2	
14	Darling Plateau	Jarrah Valleys East	2	
15	Darling Plateau	Jarrah Valleys South	2	
16	Darling Plateau	Jarrah Valleys South East	2	
17	Darling Plateau	Karri Valleys	1	
18	Darling Plateau	Wandoo Valleys North	2	
19	Darling Plateau	Powder Bark Wandoo Valleys	2	
20	Darling Plateau	Granite Outcrops	0	
21	Various Systems	Esturies / Open Water	0	
22	Collie Plain	Uplands	2	
23	Collie Plain	Depressions / Swamps	2	
24	Dandaragan Plateau	Uplands	2	
25	Dandaragan Plateau	Valleys	2	
26	Swan Coastal Plain	Uplands	2	
27	Swan Coastal Plain	Valleys	2	
28	Southern Plains	Jarrah	2	
29	Southern Plains	Karri	1	
30	Southern Plains	Heath / Sedgeland	2	
31	South Coast Dunes	South Coast Dunes	2	
32	Blackwood Plateau	Jarrah Uplands	2	
33	Blackwood Plateau	Karri Uplands	1	
34	Blackwood Plateau	Depressions / Swamps	2	
35	Blackwood Plateau	Valleys	2	
36	Margaret River Plateau	Jarrah Uplands	2	
37	Margaret River Plateau	Karri Uplands	1	
38	Margaret River Plateau	Jarrah Valleys	2	
39	Margaret River Plateau	Karri Valleys	1	
40	Lewin Naturalist Coast	Jarrah	2	
41	Lewin Naturalist Coast	Marri/Karri	1	
42	Lewin Naturalist Coast	Coast Heath	2	
43	Scott Coastal Plain	Uplands	2	
44	Scott Coastal Plain	Valleys / Swamps	2	
45	Redmond	Uplands	2	
46	Redmond	Valleys	2	
47	Unicup	Jarrah Uplands	2	
48	Unicup	Wandoo Uplands	2	
49	Unicup	Jarrah Valleys	2	
50	Unicup	Wandoo Valleys	2	
51	Unicup	Scrubland	2	
53	Darling Plateau	Wandoo Uplands South	2	
54	Darling Plateau	Wandoo Valleys South	2	



## Appendix 2b

Fauna Habitat ID	FDIS LAND SYSTEM	FDIS LANDSCAPE UNIT	SCORE	Origin
Painted Button-quail				
1	Darling Plateau	Jarrah Uplands North	1	
2	Darling Plateau	Jarrah Uplands East	3	
3	Darling Plateau	Jarrah Uplands South	1	
4	Darling Plateau	Jarrah Uplands South East	3	
5	Darling Plateau	Karri Uplands	0	
6	Darling Plateau	Wandoo Uplands North	3	
7	Darling Plateau	Powder Bark Uplands	3	
8	Darling Plateau	Scarp	1	
9	Darling Plateau	Depression / Swamps North	1	
10	Darling Plateau	Depressions / Swamps South	1	
11	Darling Plateau	Depressions / Swamps East	2	
12	Darling Plateau	Depressions / Swamps South East	2	
13	Darling Plateau	Jarrah Valleys North	0	
14	Darling Plateau	Jarrah Valleys East	3	
15	Darling Plateau	Jarrah Valleys South	1	
16	Darling Plateau	Jarrah Valleys South East	3	
17	Darling Plateau	Karri Valleys	0	
18	Darling Plateau	Wandoo Valleys North	3	
19	Darling Plateau	Powder Bark Wandoo Valleys	3	
20	Darling Plateau	Granite Outcrops	0	
21	Various Systems	Esturies / Open Water	0	
22	Collie Plain	Uplands	1	
23	Collie Plain	Depressions / Swamps	2	
24	Dandaragan Plateau	Uplands	3	
25	Dandaragan Plateau	Valleys	3	
26	Swan Coastal Plain	Uplands	1	
27	Swan Coastal Plain	Valleys	1	
28	Southern Plains	Jarrah	0	
29	Southern Plains	Karri	0	
30	Southern Plains	Heath / Sedgeland	0	
31	South Coast Dunes	South Coast Dunes	0	
32	Blackwood Plateau	Jarrah Uplands	1	
33	Blackwood Plateau	Karri Uplands	0	
34	Blackwood Plateau	Depressions / Swamps	0	
35	Blackwood Plateau	Valleys	0	
36	Margaret River Plateau	Jarrah Uplands	1	
37	Margaret River Plateau	Karri Uplands	0	
38	Margaret River Plateau	Jarrah Valleys	0	
39	Margaret River Plateau	Karri Valleys	0	
40	Lewin Naturalist Coast	Jarrah	1	
41	Lewin Naturalist Coast	Marri/Karri	0	
42	Lewin Naturalist Coast	Coast Heath	0	
43	Scott Coastal Plain	Uplands	0	
44	Scott Coastal Plain	Valleys / Swamps	0	
45	Redmond	Uplands	3	
46	Redmond	Valleys	0	
47	Unicup	Jarrah Uplands	3	
48	Unicup	Wandoo Uplands	3	
49	Unicup	Jarrah Valleys	3	
50	Unicup	Wandoo Valleys	3	
51	Unicup	Scrubland	3	
53	Darling Plateau	Wandoo Uplands South	3	
54	Darling Plateau	Wandoo Valleys South	3	

## Appendix 2b

Fauna Habitat ID	FDIS LAND SYSTEM	FDIS LANDSCAPE UNIT	SCORE	Origin
Little Button-quail				
1	Darling Plateau	Jarrah Uplands North	0	
2	Darling Plateau	Jarrah Uplands East	2	
3	Darling Plateau	Jarrah Uplands South	0	
4	Darling Plateau	Jarrah Uplands South East	2	
5	Darling Plateau	Karri Uplands	0	
6	Darling Plateau	Wandoo Uplands North	1	
7	Darling Plateau	Powder Bark Uplands	2	
8	Darling Plateau	Scarp	0	
9	Darling Plateau	Depression / Swamps North	0	
10	Darling Plateau	Depressions / Swamps South	0	
11	Darling Plateau	Depressions / Swamps East	1	
12	Darling Plateau	Depressions / Swamps South East	1	
13	Darling Plateau	Jarrah Valleys North	0	
14	Darling Plateau	Jarrah Valleys East	2	
15	Darling Plateau	Jarrah Valleys South	0	
16	Darling Plateau	Jarrah Valleys South East	2	
17	Darling Plateau	Karri Valleys	0	
18	Darling Plateau	Wandoo Valleys North	1	
19	Darling Plateau	Powder Bark Wandoo Valleys	2	
20	Darling Plateau	Granite Outcrops	0	
21	Various Systems	Esturies / Open Water	0	
22	Collie Plain	Uplands	0	
23	Collie Plain	Depressions / Swamps	0	
24	Dandaragan Plateau	Uplands	2	
25	Dandaragan Plateau	Valleys	2	
26	Swan Coastal Plain	Uplands	0	
27	Swan Coastal Plain	Valleys	0	
28	Southern Plains	Jarrah	0	
29	Southern Plains	Karri	0	
30	Southern Plains	Heath / Sedgeland	0	
31	South Coast Dunes	South Coast Dunes	0	
32	Blackwood Plateau	Jarrah Uplands	0	
33	Blackwood Plateau	Karri Uplands	0	
34	Blackwood Plateau	Depressions / Swamps	0	
35	Blackwood Plateau	Valleys	0	
36	Margaret River Plateau	Jarrah Uplands	0	
37	Margaret River Plateau	Karri Uplands	0	
38	Margaret River Plateau	Jarrah Valleys	0	
39	Margaret River Plateau	Karri Valleys	0	
40	Lewin Naturalist Coast	Jarrah	0	
41	Lewin Naturalist Coast	Marri/Karri	0	
42	Lewin Naturalist Coast	Coast Heath	0	
43	Scott Coastal Plain	Uplands	0	
44	Scott Coastal Plain	Valleys / Swamps	0	
45	Redmond	Uplands	3	
46	Redmond	Valleys	0	
47	Unicup	Jarrah Uplands	3	
48	Unicup	Wandoo Uplands	3	
49	Unicup	Jarrah Valleys	3	
50	Unicup	Wandoo Valleys	3	
51	Unicup	Scrubland	3	
53	Darling Plateau	Wandoo Uplands South	1	
54	Darling Plateau	Wandoo Valleys South	1	

## Appendix 2b

Fauna Habitat ID	FDIS LAND SYSTEM	FDIS LANDSCAPE UNIT	SCORE	Origin
Buff-banded Rail				
1	Darling Plateau	Jarrah Uplands North	0	
2	Darling Plateau	Jarrah Uplands East	0	
3	Darling Plateau	Jarrah Uplands South	0	
4	Darling Plateau	Jarrah Uplands South East	0	
5	Darling Plateau	Karri Uplands	0	
6	Darling Plateau	Wandoo Uplands North	0	
7	Darling Plateau	Powder Bark Uplands	0	
8	Darling Plateau	Scarp	0	
9	Darling Plateau	Depression / Swamps North	0	
10	Darling Plateau	Depressions / Swamps South	0	
11	Darling Plateau	Depressions / Swamps East	0	
12	Darling Plateau	Depressions / Swamps South East	0	
13	Darling Plateau	Jarrah Valleys North	1	
14	Darling Plateau	Jarrah Valleys East	0	
15	Darling Plateau	Jarrah Valleys South	1	
16	Darling Plateau	Jarrah Valleys South East	0	
17	Darling Plateau	Karri Valleys	0	
18	Darling Plateau	Wandoo Valleys North	0	
19	Darling Plateau	Powder Bark Wandoo Valleys	0	
20	Darling Plateau	Granite Outcrops	0	
21	Various Systems	Esturies / Open Water	0	
22	Collie Plain	Uplands	0	
23	Collie Plain	Depressions / Swamps	0	
24	Dandaragan Plateau	Uplands	0	
25	Dandaragan Plateau	Valleys	0	
26	Swan Coastal Plain	Uplands	2	
27	Swan Coastal Plain	Valleys	2	
28	Southern Plains	Jarrah	0	
29	Southern Plains	Karri	0	
30	Southern Plains	Heath / Sedgeland	0	
31	South Coast Dunes	South Coast Dunes	2	
32	Blackwood Plateau	Jarrah Uplands	0	
33	Blackwood Plateau	Karri Uplands	0	
34	Blackwood Plateau	Depressions / Swamps	0	
35	Blackwood Plateau	Valleys	1	
36	Margaret River Plateau	Jarrah Uplands	0	
37	Margaret River Plateau	Karri Uplands	0	
38	Margaret River Plateau	Jarrah Valleys	1	
39	Margaret River Plateau	Karri Valleys	0	
40	Lewin Naturalist Coast	Jarrah	0	
41	Lewin Naturalist Coast	Marri/Karri	0	
42	Lewin Naturalist Coast	Coast Heath	0	
43	Scott Coastal Plain	Uplands	0	
44	Scott Coastal Plain	Valleys / Swamps	0	
45	Redmond	Uplands	0	
46	Redmond	Valleys	1	
47	Unicup	Jarrah Uplands	0	
48	Unicup	Wandoo Uplands	0	
49	Unicup	Jarrah Valleys	0	
50	Unicup	Wandoo Valleys	0	
51	Unicup	Scrubland	0	
53	Darling Plateau	Wandoo Uplands South	0	
54	Darling Plateau	Wandoo Valleys South	0	

## Appendix 2b

Fauna Habitat ID	FDIS LAND SYSTEM	FDIS LANDSCAPE UNIT	SCORE	Origin
Lewin's Rail				
1	Darling Plateau	Jarrah Uplands North	0	
2	Darling Plateau	Jarrah Uplands East	0	
3	Darling Plateau	Jarrah Uplands South	0	
4	Darling Plateau	Jarrah Uplands South East	0	
5	Darling Plateau	Karri Uplands	0	
6	Darling Plateau	Wandoo Uplands North	0	
7	Darling Plateau	Powder Bark Uplands	0	
8	Darling Plateau	Scarp	0	
9	Darling Plateau	Depression / Swamps North	0	
10	Darling Plateau	Depressions / Swamps South	0	
11	Darling Plateau	Depressions / Swamps East	0	
12	Darling Plateau	Depressions / Swamps South East	0	
13	Darling Plateau	Jarrah Valleys North	0	
14	Darling Plateau	Jarrah Valleys East	0	
15	Darling Plateau	Jarrah Valleys South	0	
16	Darling Plateau	Jarrah Valleys South East	0	
17	Darling Plateau	Karri Valleys	0	
18	Darling Plateau	Wandoo Valleys North	0	
19	Darling Plateau	Powder Bark Wandoo Valleys	0	
20	Darling Plateau	Granite Outcrops	0	
21	Various Systems	Esturies / Open Water	0	
22	Collie Plain	Uplands	0	
23	Collie Plain	Depressions / Swamps	0	
24	Dandaragan Plateau	Uplands	0	
25	Dandaragan Plateau	Valleys	0	
26	Swan Coastal Plain	Uplands	0	
27	Swan Coastal Plain	Valleys	0	
28	Southern Plains	Jarrah	0	
29	Southern Plains	Karri	0	
30	Southern Plains	Heath / Sedgeland	0	
31	South Coast Dunes	South Coast Dunes	0	
32	Blackwood Plateau	Jarrah Uplands	0	
33	Blackwood Plateau	Karri Uplands	0	
34	Blackwood Plateau	Depressions / Swamps	0	
35	Blackwood Plateau	Valleys	0	
36	Margaret River Plateau	Jarrah Uplands	0	
37	Margaret River Plateau	Karri Uplands	0	
38	Margaret River Plateau	Jarrah Valleys	0	
39	Margaret River Plateau	Karri Valleys	0	
40	Lewin Naturalist Coast	Jarrah	0	
41	Lewin Naturalist Coast	Marri/Karri	0	
42	Lewin Naturalist Coast	Coast Heath	0	
43	Scott Coastal Plain	Uplands	0	
44	Scott Coastal Plain	Valleys / Swamps	0	
45	Redmond	Uplands	0	
46	Redmond	Valleys	0	
47	Unicup	Jarrah Uplands	0	
48	Unicup	Wandoo Uplands	0	
49	Unicup	Jarrah Valleys	0	
50	Unicup	Wandoo Valleys	0	
51	Unicup	Scrubland	0	
53	Darling Plateau	Wandoo Uplands South	0	
54	Darling Plateau	Wandoo Valleys South	0	

## Appendix 2b

Fauna Habitat ID	FDIS LAND SYSTEM	FDIS LANDSCAPE UNIT	SCORE	Origin
Baillon's Crane				
1	Darling Plateau	Jarrah Uplands North	0	
2	Darling Plateau	Jarrah Uplands East	0	
3	Darling Plateau	Jarrah Uplands South	0	
4	Darling Plateau	Jarrah Uplands South East	0	
5	Darling Plateau	Karri Uplands	0	
6	Darling Plateau	Wandoo Uplands North	0	
7	Darling Plateau	Powder Bark Uplands	0	
8	Darling Plateau	Scarp	0	
9	Darling Plateau	Depression / Swamps North	1	
10	Darling Plateau	Depressions / Swamps South	1	
11	Darling Plateau	Depressions / Swamps East	1	
12	Darling Plateau	Depressions / Swamps South East	1	
13	Darling Plateau	Jarrah Valleys North	0	
14	Darling Plateau	Jarrah Valleys East	0	
15	Darling Plateau	Jarrah Valleys South	0	
16	Darling Plateau	Jarrah Valleys South East	0	
17	Darling Plateau	Karri Valleys	0	
18	Darling Plateau	Wandoo Valleys North	0	
19	Darling Plateau	Powder Bark Wandoo Valleys	0	
20	Darling Plateau	Granite Outcrops	0	
21	Various Systems	Esturies / Open Water	1	
22	Collie Plain	Uplands	0	
23	Collie Plain	Depressions / Swamps	1	
24	Dandaragan Plateau	Uplands	0	
25	Dandaragan Plateau	Valleys	0	
26	Swan Coastal Plain	Uplands	0	
27	Swan Coastal Plain	Valleys	0	
28	Southern Plains	Jarrah	0	
29	Southern Plains	Karri	0	
30	Southern Plains	Heath / Sedgeland	0	
31	South Coast Dunes	South Coast Dunes	0	
32	Blackwood Plateau	Jarrah Uplands	0	
33	Blackwood Plateau	Karri Uplands	0	
34	Blackwood Plateau	Depressions / Swamps	1	
35	Blackwood Plateau	Valleys	0	
36	Margaret River Plateau	Jarrah Uplands	0	
37	Margaret River Plateau	Karri Uplands	0	
38	Margaret River Plateau	Jarrah Valleys	0	
39	Margaret River Plateau	Karri Valleys	0	
40	Lewin Naturalist Coast	Jarrah	0	
41	Lewin Naturalist Coast	Marri/Karri	0	
42	Lewin Naturalist Coast	Coast Heath	0	
43	Scott Coastal Plain	Uplands	0	
44	Scott Coastal Plain	Valleys / Swamps	1	
45	Redmond	Uplands	0	
46	Redmond	Valleys	0	
47	Unicup	Jarrah Uplands	0	
48	Unicup	Wandoo Uplands	0	
49	Unicup	Jarrah Valleys	0	
50	Unicup	Wandoo Valleys	0	
51	Unicup	Scrubland	0	
53	Darling Plateau	Wandoo Uplands South	0	
54	Darling Plateau	Wandoo Valleys South	0	

## Appendix 2b

Fauna Habitat ID	FDIS LAND SYSTEM	FDIS LANDSCAPE UNIT	SCORE	Origin
Australian (Spotted) Crane				
1	Darling Plateau	Jarrah Uplands North	0	
2	Darling Plateau	Jarrah Uplands East	0	
3	Darling Plateau	Jarrah Uplands South	0	
4	Darling Plateau	Jarrah Uplands South East	0	
5	Darling Plateau	Karri Uplands	0	
6	Darling Plateau	Wandoo Uplands North	0	
7	Darling Plateau	Powder Bark Uplands	0	
8	Darling Plateau	Scarp	0	
9	Darling Plateau	Depression / Swamps North	1	
10	Darling Plateau	Depressions / Swamps South	1	
11	Darling Plateau	Depressions / Swamps East	1	
12	Darling Plateau	Depressions / Swamps South East	1	
13	Darling Plateau	Jarrah Valleys North	0	
14	Darling Plateau	Jarrah Valleys East	0	
15	Darling Plateau	Jarrah Valleys South	0	
16	Darling Plateau	Jarrah Valleys South East	0	
17	Darling Plateau	Karri Valleys	0	
18	Darling Plateau	Wandoo Valleys North	0	
19	Darling Plateau	Powder Bark Wandoo Valleys	0	
20	Darling Plateau	Granite Outcrops	0	
21	Various Systems	Esturies / Open Water	1	
22	Collie Plain	Uplands	0	
23	Collie Plain	Depressions / Swamps	1	
24	Dandaragan Plateau	Uplands	0	
25	Dandaragan Plateau	Valleys	0	
26	Swan Coastal Plain	Uplands	0	
27	Swan Coastal Plain	Valleys	0	
28	Southern Plains	Jarrah	0	
29	Southern Plains	Karri	0	
30	Southern Plains	Heath / Sedgeland	0	
31	South Coast Dunes	South Coast Dunes	0	
32	Blackwood Plateau	Jarrah Uplands	0	
33	Blackwood Plateau	Karri Uplands	0	
34	Blackwood Plateau	Depressions / Swamps	1	
35	Blackwood Plateau	Valleys	0	
36	Margaret River Plateau	Jarrah Uplands	0	
37	Margaret River Plateau	Karri Uplands	0	
38	Margaret River Plateau	Jarrah Valleys	0	
39	Margaret River Plateau	Karri Valleys	0	
40	Lewin Naturalist Coast	Jarrah	0	
41	Lewin Naturalist Coast	Marri/Karri	0	
42	Lewin Naturalist Coast	Coast Heath	0	
43	Scott Coastal Plain	Uplands	0	
44	Scott Coastal Plain	Valleys / Swamps	1	
45	Redmond	Uplands	0	
46	Redmond	Valleys	0	
47	Unicup	Jarrah Uplands	0	
48	Unicup	Wandoo Uplands	0	
49	Unicup	Jarrah Valleys	0	
50	Unicup	Wandoo Valleys	0	
51	Unicup	Scrubland	0	
53	Darling Plateau	Wandoo Uplands South	0	
54	Darling Plateau	Wandoo Valleys South	0	

## Appendix 2b

Fauna Habitat ID	FDIS LAND SYSTEM	FDIS LANDSCAPE UNIT	SCORE	Origin
Spotless Crane				
1	Darling Plateau	Jarrah Uplands North	0	
2	Darling Plateau	Jarrah Uplands East	0	
3	Darling Plateau	Jarrah Uplands South	0	
4	Darling Plateau	Jarrah Uplands South East	0	
5	Darling Plateau	Karri Uplands	0	
6	Darling Plateau	Wandoo Uplands North	0	
7	Darling Plateau	Powder Bark Uplands	0	
8	Darling Plateau	Scarp	0	
9	Darling Plateau	Depression / Swamps North	0	
10	Darling Plateau	Depressions / Swamps South	1	
11	Darling Plateau	Depressions / Swamps East	0	
12	Darling Plateau	Depressions / Swamps South East	1	
13	Darling Plateau	Jarrah Valleys North	1	
14	Darling Plateau	Jarrah Valleys East	0	
15	Darling Plateau	Jarrah Valleys South	1	
16	Darling Plateau	Jarrah Valleys South East	0	
17	Darling Plateau	Karri Valleys	2	
18	Darling Plateau	Wandoo Valleys North	0	
19	Darling Plateau	Powder Bark Wandoo Valleys	0	
20	Darling Plateau	Granite Outcrops	0	
21	Various Systems	Esturies / Open Water	2	
22	Collie Plain	Uplands	0	
23	Collie Plain	Depressions / Swamps	0	
24	Dandaragan Plateau	Uplands	0	
25	Dandaragan Plateau	Valleys	0	
26	Swan Coastal Plain	Uplands	0	
27	Swan Coastal Plain	Valleys	0	
28	Southern Plains	Jarrah	0	
29	Southern Plains	Karri	0	
30	Southern Plains	Heath / Sedgeland	1	
31	South Coast Dunes	South Coast Dunes	0	
32	Blackwood Plateau	Jarrah Uplands	0	
33	Blackwood Plateau	Karri Uplands	0	
34	Blackwood Plateau	Depressions / Swamps	1	
35	Blackwood Plateau	Valleys	1	
36	Margaret River Plateau	Jarrah Uplands	0	
37	Margaret River Plateau	Karri Uplands	0	
38	Margaret River Plateau	Jarrah Valleys	1	
39	Margaret River Plateau	Karri Valleys	1	
40	Lewin Naturalist Coast	Jarrah	0	
41	Lewin Naturalist Coast	Marri/Karri	0	
42	Lewin Naturalist Coast	Coast Heath	0	
43	Scott Coastal Plain	Uplands	0	
44	Scott Coastal Plain	Valleys / Swamps	1	
45	Redmond	Uplands	0	
46	Redmond	Valleys	1	
47	Unicup	Jarrah Uplands	0	
48	Unicup	Wandoo Uplands	0	
49	Unicup	Jarrah Valleys	0	
50	Unicup	Wandoo Valleys	0	
51	Unicup	Scrubland	0	
53	Darling Plateau	Wandoo Uplands South	0	
54	Darling Plateau	Wandoo Valleys South	0	

## Appendix 2b

Fauna Habitat ID	FDIS LAND SYSTEM	FDIS LANDSCAPE UNIT	SCORE	Origin
Black-tailed Native Hen				
1	Darling Plateau	Jarrah Uplands North	0	
2	Darling Plateau	Jarrah Uplands East	0	
3	Darling Plateau	Jarrah Uplands South	0	
4	Darling Plateau	Jarrah Uplands South East	0	
5	Darling Plateau	Karri Uplands	0	
6	Darling Plateau	Wandoo Uplands North	0	
7	Darling Plateau	Powder Bark Uplands	0	
8	Darling Plateau	Scarp	0	
9	Darling Plateau	Depression / Swamps North	0	
10	Darling Plateau	Depressions / Swamps South	0	
11	Darling Plateau	Depressions / Swamps East	0	
12	Darling Plateau	Depressions / Swamps South East	0	
13	Darling Plateau	Jarrah Valleys North	0	
14	Darling Plateau	Jarrah Valleys East	0	
15	Darling Plateau	Jarrah Valleys South	0	
16	Darling Plateau	Jarrah Valleys South East	0	
17	Darling Plateau	Karri Valleys	0	
18	Darling Plateau	Wandoo Valleys North	0	
19	Darling Plateau	Powder Bark Wandoo Valleys	0	
20	Darling Plateau	Granite Outcrops	0	
21	Various Systems	Esturies / Open Water	2	
22	Collie Plain	Uplands	0	
23	Collie Plain	Depressions / Swamps	0	
24	Dandaragan Plateau	Uplands	0	
25	Dandaragan Plateau	Valleys	0	
26	Swan Coastal Plain	Uplands	0	
27	Swan Coastal Plain	Valleys	2	
28	Southern Plains	Jarrah	0	
29	Southern Plains	Karri	0	
30	Southern Plains	Heath / Sedgeland	0	
31	South Coast Dunes	South Coast Dunes	0	
32	Blackwood Plateau	Jarrah Uplands	0	
33	Blackwood Plateau	Karri Uplands	0	
34	Blackwood Plateau	Depressions / Swamps	0	
35	Blackwood Plateau	Valleys	0	
36	Margaret River Plateau	Jarrah Uplands	0	
37	Margaret River Plateau	Karri Uplands	0	
38	Margaret River Plateau	Jarrah Valleys	0	
39	Margaret River Plateau	Karri Valleys	0	
40	Lewin Naturalist Coast	Jarrah	0	
41	Lewin Naturalist Coast	Marri/Karri	0	
42	Lewin Naturalist Coast	Coast Heath	0	
43	Scott Coastal Plain	Uplands	0	
44	Scott Coastal Plain	Valleys / Swamps	0	
45	Redmond	Uplands	0	
46	Redmond	Valleys	0	
47	Unicup	Jarrah Uplands	0	
48	Unicup	Wandoo Uplands	0	
49	Unicup	Jarrah Valleys	0	
50	Unicup	Wandoo Valleys	0	
51	Unicup	Scrubland	0	
53	Darling Plateau	Wandoo Uplands South	0	
54	Darling Plateau	Wandoo Valleys South	0	



## Appendix 2b

Fauna Habitat ID	FDIS LAND SYSTEM	FDIS LANDSCAPE UNIT	SCORE	Origin
Dusky Moorhen				
1	Darling Plateau	Jarrah Uplands North	0	
2	Darling Plateau	Jarrah Uplands East	0	
3	Darling Plateau	Jarrah Uplands South	0	
4	Darling Plateau	Jarrah Uplands South East	0	
5	Darling Plateau	Karri Uplands	0	
6	Darling Plateau	Wandoo Uplands North	0	
7	Darling Plateau	Powder Bark Uplands	0	
8	Darling Plateau	Scarp	0	
9	Darling Plateau	Depression / Swamps North	0	
10	Darling Plateau	Depressions / Swamps South	0	
11	Darling Plateau	Depressions / Swamps East	0	
12	Darling Plateau	Depressions / Swamps South East	0	
13	Darling Plateau	Jarrah Valleys North	0	
14	Darling Plateau	Jarrah Valleys East	0	
15	Darling Plateau	Jarrah Valleys South	0	
16	Darling Plateau	Jarrah Valleys South East	0	
17	Darling Plateau	Karri Valleys	0	
18	Darling Plateau	Wandoo Valleys North	0	
19	Darling Plateau	Powder Bark Wandoo Valleys	0	
20	Darling Plateau	Granite Outcrops	0	
21	Various Systems	Esturies / Open Water	2	
22	Collie Plain	Uplands	0	
23	Collie Plain	Depressions / Swamps	0	
24	Dandaragan Plateau	Uplands	0	
25	Dandaragan Plateau	Valleys	0	
26	Swan Coastal Plain	Uplands	0	
27	Swan Coastal Plain	Valleys	2	
28	Southern Plains	Jarrah	0	
29	Southern Plains	Karri	0	
30	Southern Plains	Heath / Sedgeland	0	
31	South Coast Dunes	South Coast Dunes	0	
32	Blackwood Plateau	Jarrah Uplands	0	
33	Blackwood Plateau	Karri Uplands	0	
34	Blackwood Plateau	Depressions / Swamps	0	
35	Blackwood Plateau	Valleys	0	
36	Margaret River Plateau	Jarrah Uplands	0	
37	Margaret River Plateau	Karri Uplands	0	
38	Margaret River Plateau	Jarrah Valleys	0	
39	Margaret River Plateau	Karri Valleys	0	
40	Lewin Naturalist Coast	Jarrah	0	
41	Lewin Naturalist Coast	Marri/Karri	0	
42	Lewin Naturalist Coast	Coast Heath	0	
43	Scott Coastal Plain	Uplands	0	
44	Scott Coastal Plain	Valleys / Swamps	0	
45	Redmond	Uplands	0	
46	Redmond	Valleys	0	
47	Unicup	Jarrah Uplands	0	
48	Unicup	Wandoo Uplands	0	
49	Unicup	Jarrah Valleys	0	
50	Unicup	Wandoo Valleys	0	
51	Unicup	Scrubland	0	
53	Darling Plateau	Wandoo Uplands South	0	
54	Darling Plateau	Wandoo Valleys South	0	

## Appendix 2b

Fauna Habitat ID	FDIS LAND SYSTEM	FDIS LANDSCAPE UNIT	SCORE	Origin
Purple Swamphen				
1	Darling Plateau	Jarrah Uplands North	0	
2	Darling Plateau	Jarrah Uplands East	0	
3	Darling Plateau	Jarrah Uplands South	0	
4	Darling Plateau	Jarrah Uplands South East	0	
5	Darling Plateau	Karri Uplands	0	
6	Darling Plateau	Wandoo Uplands North	0	
7	Darling Plateau	Powder Bark Uplands	0	
8	Darling Plateau	Scarp	0	
9	Darling Plateau	Depression / Swamps North	2	
10	Darling Plateau	Depressions / Swamps South	2	
11	Darling Plateau	Depressions / Swamps East	2	
12	Darling Plateau	Depressions / Swamps South East	2	
13	Darling Plateau	Jarrah Valleys North	0	
14	Darling Plateau	Jarrah Valleys East	0	
15	Darling Plateau	Jarrah Valleys South	0	
16	Darling Plateau	Jarrah Valleys South East	0	
17	Darling Plateau	Karri Valleys	0	
18	Darling Plateau	Wandoo Valleys North	0	
19	Darling Plateau	Powder Bark Wandoo Valleys	0	
20	Darling Plateau	Granite Outcrops	0	
21	Various Systems	Esturies / Open Water	2	
22	Collie Plain	Uplands	0	
23	Collie Plain	Depressions / Swamps	2	
24	Dandaragan Plateau	Uplands	0	
25	Dandaragan Plateau	Valleys	0	
26	Swan Coastal Plain	Uplands	0	
27	Swan Coastal Plain	Valleys	2	
28	Southern Plains	Jarrah	0	
29	Southern Plains	Karri	0	
30	Southern Plains	Heath / Sedgeland	0	
31	South Coast Dunes	South Coast Dunes	2	
32	Blackwood Plateau	Jarrah Uplands	0	
33	Blackwood Plateau	Karri Uplands	0	
34	Blackwood Plateau	Depressions / Swamps	0	
35	Blackwood Plateau	Valleys	2	
36	Margaret River Plateau	Jarrah Uplands	0	
37	Margaret River Plateau	Karri Uplands	0	
38	Margaret River Plateau	Jarrah Valleys	2	
39	Margaret River Plateau	Karri Valleys	2	
40	Lewin Naturalist Coast	Jarrah	0	
41	Lewin Naturalist Coast	Marri/Karri	0	
42	Lewin Naturalist Coast	Coast Heath	2	
43	Scott Coastal Plain	Uplands	0	
44	Scott Coastal Plain	Valleys / Swamps	2	
45	Redmond	Uplands	0	
46	Redmond	Valleys	2	
47	Unicup	Jarrah Uplands	0	
48	Unicup	Wandoo Uplands	0	
49	Unicup	Jarrah Valleys	0	
50	Unicup	Wandoo Valleys	0	
51	Unicup	Scrubland	2	
53	Darling Plateau	Wandoo Uplands South	0	
54	Darling Plateau	Wandoo Valleys South	0	

## Appendix 2b

Fauna Habitat ID	FDIS LAND SYSTEM	FDIS LANDSCAPE UNIT	SCORE	Origin
Eurasian Coot				
1	Darling Plateau	Jarrah Uplands North	0	
2	Darling Plateau	Jarrah Uplands East	0	
3	Darling Plateau	Jarrah Uplands South	0	
4	Darling Plateau	Jarrah Uplands South East	0	
5	Darling Plateau	Karri Uplands	0	
6	Darling Plateau	Wandoo Uplands North	0	
7	Darling Plateau	Powder Bark Uplands	0	
8	Darling Plateau	Scarp	0	
9	Darling Plateau	Depression / Swamps North	0	
10	Darling Plateau	Depressions / Swamps South	0	
11	Darling Plateau	Depressions / Swamps East	0	
12	Darling Plateau	Depressions / Swamps South East	0	
13	Darling Plateau	Jarrah Valleys North	0	
14	Darling Plateau	Jarrah Valleys East	0	
15	Darling Plateau	Jarrah Valleys South	0	
16	Darling Plateau	Jarrah Valleys South East	0	
17	Darling Plateau	Karri Valleys	0	
18	Darling Plateau	Wandoo Valleys North	0	
19	Darling Plateau	Powder Bark Wandoo Valleys	0	
20	Darling Plateau	Granite Outcrops	0	
21	Various Systems	Esturies / Open Water	1	
22	Collie Plain	Uplands	0	
23	Collie Plain	Depressions / Swamps	0	
24	Dandaragan Plateau	Uplands	0	
25	Dandaragan Plateau	Valleys	0	
26	Swan Coastal Plain	Uplands	0	
27	Swan Coastal Plain	Valleys	0	
28	Southern Plains	Jarrah	0	
29	Southern Plains	Karri	0	
30	Southern Plains	Heath / Sedgeland	0	
31	South Coast Dunes	South Coast Dunes	0	
32	Blackwood Plateau	Jarrah Uplands	0	
33	Blackwood Plateau	Karri Uplands	0	
34	Blackwood Plateau	Depressions / Swamps	0	
35	Blackwood Plateau	Valleys	0	
36	Margaret River Plateau	Jarrah Uplands	0	
37	Margaret River Plateau	Karri Uplands	0	
38	Margaret River Plateau	Jarrah Valleys	0	
39	Margaret River Plateau	Karri Valleys	0	
40	Lewin Naturalist Coast	Jarrah	0	
41	Lewin Naturalist Coast	Marri/Karri	0	
42	Lewin Naturalist Coast	Coast Heath	0	
43	Scott Coastal Plain	Uplands	0	
44	Scott Coastal Plain	Valleys / Swamps	0	
45	Redmond	Uplands	0	
46	Redmond	Valleys	0	
47	Unicup	Jarrah Uplands	0	
48	Unicup	Wandoo Uplands	0	
49	Unicup	Jarrah Valleys	0	
50	Unicup	Wandoo Valleys	0	
51	Unicup	Scrubland	0	
53	Darling Plateau	Wandoo Uplands South	0	
54	Darling Plateau	Wandoo Valleys South	0	

## Appendix 2b

Fauna Habitat ID	FDIS LAND SYSTEM	FDIS LANDSCAPE UNIT	SCORE	Origin
Banded Lapwing				
1	Darling Plateau	Jarrah Uplands North	0	
2	Darling Plateau	Jarrah Uplands East	1	
3	Darling Plateau	Jarrah Uplands South	0	
4	Darling Plateau	Jarrah Uplands South East	0	
5	Darling Plateau	Karri Uplands	0	
6	Darling Plateau	Wandoo Uplands North	1	
7	Darling Plateau	Powder Bark Uplands	1	
8	Darling Plateau	Scarp	0	
9	Darling Plateau	Depression / Swamps North	0	
10	Darling Plateau	Depressions / Swamps South	0	
11	Darling Plateau	Depressions / Swamps East	0	
12	Darling Plateau	Depressions / Swamps South East	0	
13	Darling Plateau	Jarrah Valleys North	0	
14	Darling Plateau	Jarrah Valleys East	1	
15	Darling Plateau	Jarrah Valleys South	0	
16	Darling Plateau	Jarrah Valleys South East	0	
17	Darling Plateau	Karri Valleys	0	
18	Darling Plateau	Wandoo Valleys North	1	
19	Darling Plateau	Powder Bark Wandoo Valleys	1	
20	Darling Plateau	Granite Outcrops	0	
21	Various Systems	Esturies / Open Water	0	
22	Collie Plain	Uplands	0	
23	Collie Plain	Depressions / Swamps	0	
24	Dandaragan Plateau	Uplands	1	
25	Dandaragan Plateau	Valleys	1	
26	Swan Coastal Plain	Uplands	1	
27	Swan Coastal Plain	Valleys	1	
28	Southern Plains	Jarrah	0	
29	Southern Plains	Karri	0	
30	Southern Plains	Heath / Sedgeland	0	
31	South Coast Dunes	South Coast Dunes	0	
32	Blackwood Plateau	Jarrah Uplands	0	
33	Blackwood Plateau	Karri Uplands	0	
34	Blackwood Plateau	Depressions / Swamps	0	
35	Blackwood Plateau	Valleys	0	
36	Margaret River Plateau	Jarrah Uplands	0	
37	Margaret River Plateau	Karri Uplands	0	
38	Margaret River Plateau	Jarrah Valleys	0	
39	Margaret River Plateau	Karri Valleys	0	
40	Lewin Naturalist Coast	Jarrah	0	
41	Lewin Naturalist Coast	Marri/Karri	0	
42	Lewin Naturalist Coast	Coast Heath	0	
43	Scott Coastal Plain	Uplands	0	
44	Scott Coastal Plain	Valleys / Swamps	0	
45	Redmond	Uplands	1	
46	Redmond	Valleys	1	
47	Unicup	Jarrah Uplands	1	
48	Unicup	Wandoo Uplands	1	
49	Unicup	Jarrah Valleys	1	
50	Unicup	Wandoo Valleys	1	
51	Unicup	Scrubland	1	
53	Darling Plateau	Wandoo Uplands South	1	
54	Darling Plateau	Wandoo Valleys South	1	

## Appendix 2b

Fauna Habitat ID	FDIS LAND SYSTEM	FDIS LANDSCAPE UNIT	SCORE	Origin
Red-kneed Dotterel				
1	Darling Plateau	Jarrah Uplands North	0	
2	Darling Plateau	Jarrah Uplands East	0	
3	Darling Plateau	Jarrah Uplands South	0	
4	Darling Plateau	Jarrah Uplands South East	0	
5	Darling Plateau	Karri Uplands	0	
6	Darling Plateau	Wandoo Uplands North	0	
7	Darling Plateau	Powder Bark Uplands	0	
8	Darling Plateau	Scarp	0	
9	Darling Plateau	Depression / Swamps North	0	
10	Darling Plateau	Depressions / Swamps South	0	
11	Darling Plateau	Depressions / Swamps East	0	
12	Darling Plateau	Depressions / Swamps South East	0	
13	Darling Plateau	Jarrah Valleys North	0	
14	Darling Plateau	Jarrah Valleys East	0	
15	Darling Plateau	Jarrah Valleys South	0	
16	Darling Plateau	Jarrah Valleys South East	0	
17	Darling Plateau	Karri Valleys	0	
18	Darling Plateau	Wandoo Valleys North	0	
19	Darling Plateau	Powder Bark Wandoo Valleys	0	
20	Darling Plateau	Granite Outcrops	0	
21	Various Systems	Esturies / Open Water	2	
22	Collie Plain	Uplands	0	
23	Collie Plain	Depressions / Swamps	0	
24	Dandaragan Plateau	Uplands	0	
25	Dandaragan Plateau	Valleys	0	
26	Swan Coastal Plain	Uplands	0	
27	Swan Coastal Plain	Valleys	0	
28	Southern Plains	Jarrah	0	
29	Southern Plains	Karri	0	
30	Southern Plains	Heath / Sedgeland	0	
31	South Coast Dunes	South Coast Dunes	0	
32	Blackwood Plateau	Jarrah Uplands	0	
33	Blackwood Plateau	Karri Uplands	0	
34	Blackwood Plateau	Depressions / Swamps	0	
35	Blackwood Plateau	Valleys	0	
36	Margaret River Plateau	Jarrah Uplands	0	
37	Margaret River Plateau	Karri Uplands	0	
38	Margaret River Plateau	Jarrah Valleys	0	
39	Margaret River Plateau	Karri Valleys	0	
40	Lewin Naturalist Coast	Jarrah	0	
41	Lewin Naturalist Coast	Marri/Karri	0	
42	Lewin Naturalist Coast	Coast Heath	0	
43	Scott Coastal Plain	Uplands	0	
44	Scott Coastal Plain	Valleys / Swamps	0	
45	Redmond	Uplands	0	
46	Redmond	Valleys	0	
47	Unicup	Jarrah Uplands	0	
48	Unicup	Wandoo Uplands	0	
49	Unicup	Jarrah Valleys	0	
50	Unicup	Wandoo Valleys	0	
51	Unicup	Scrubland	0	
53	Darling Plateau	Wandoo Uplands South	0	
54	Darling Plateau	Wandoo Valleys South	0	

## Appendix 2b

Fauna Habitat ID	FDIS LAND SYSTEM	FDIS LANDSCAPE UNIT	SCORE	Origin
Red-capped Plover				
1	Darling Plateau	Jarrah Uplands North	0	
2	Darling Plateau	Jarrah Uplands East	0	
3	Darling Plateau	Jarrah Uplands South	0	
4	Darling Plateau	Jarrah Uplands South East	0	
5	Darling Plateau	Karri Uplands	0	
6	Darling Plateau	Wandoo Uplands North	0	
7	Darling Plateau	Powder Bark Uplands	0	
8	Darling Plateau	Scarp	0	
9	Darling Plateau	Depression / Swamps North	0	
10	Darling Plateau	Depressions / Swamps South	0	
11	Darling Plateau	Depressions / Swamps East	0	
12	Darling Plateau	Depressions / Swamps South East	0	
13	Darling Plateau	Jarrah Valleys North	0	
14	Darling Plateau	Jarrah Valleys East	0	
15	Darling Plateau	Jarrah Valleys South	0	
16	Darling Plateau	Jarrah Valleys South East	0	
17	Darling Plateau	Karri Valleys	0	
18	Darling Plateau	Wandoo Valleys North	0	
19	Darling Plateau	Powder Bark Wandoo Valleys	0	
20	Darling Plateau	Granite Outcrops	0	
21	Various Systems	Esturies / Open Water	2	
22	Collie Plain	Uplands	0	
23	Collie Plain	Depressions / Swamps	0	
24	Dandaragan Plateau	Uplands	0	
25	Dandaragan Plateau	Valleys	0	
26	Swan Coastal Plain	Uplands	0	
27	Swan Coastal Plain	Valleys	0	
28	Southern Plains	Jarrah	0	
29	Southern Plains	Karri	0	
30	Southern Plains	Heath / Sedgeland	0	
31	South Coast Dunes	South Coast Dunes	1	
32	Blackwood Plateau	Jarrah Uplands	0	
33	Blackwood Plateau	Karri Uplands	0	
34	Blackwood Plateau	Depressions / Swamps	0	
35	Blackwood Plateau	Valleys	0	
36	Margaret River Plateau	Jarrah Uplands	0	
37	Margaret River Plateau	Karri Uplands	0	
38	Margaret River Plateau	Jarrah Valleys	0	
39	Margaret River Plateau	Karri Valleys	0	
40	Lewin Naturalist Coast	Jarrah	0	
41	Lewin Naturalist Coast	Marri/Karri	0	
42	Lewin Naturalist Coast	Coast Heath	0	
43	Scott Coastal Plain	Uplands	0	
44	Scott Coastal Plain	Valleys / Swamps	0	
45	Redmond	Uplands	0	
46	Redmond	Valleys	0	
47	Unicup	Jarrah Uplands	0	
48	Unicup	Wandoo Uplands	0	
49	Unicup	Jarrah Valleys	0	
50	Unicup	Wandoo Valleys	0	
51	Unicup	Scrubland	0	
53	Darling Plateau	Wandoo Uplands South	0	
54	Darling Plateau	Wandoo Valleys South	0	

## Appendix 2b

Fauna Habitat ID	FDIS LAND SYSTEM	FDIS LANDSCAPE UNIT	SCORE	Origin
Black-fronted Plover				
1	Darling Plateau	Jarrah Uplands North	0	
2	Darling Plateau	Jarrah Uplands East	0	
3	Darling Plateau	Jarrah Uplands South	0	
4	Darling Plateau	Jarrah Uplands South East	0	
5	Darling Plateau	Karri Uplands	0	
6	Darling Plateau	Wandoo Uplands North	0	
7	Darling Plateau	Powder Bark Uplands	0	
8	Darling Plateau	Scarp	0	
9	Darling Plateau	Depression / Swamps North	0	
10	Darling Plateau	Depressions / Swamps South	0	
11	Darling Plateau	Depressions / Swamps East	0	
12	Darling Plateau	Depressions / Swamps South East	0	
13	Darling Plateau	Jarrah Valleys North	0	
14	Darling Plateau	Jarrah Valleys East	0	
15	Darling Plateau	Jarrah Valleys South	0	
16	Darling Plateau	Jarrah Valleys South East	0	
17	Darling Plateau	Karri Valleys	0	
18	Darling Plateau	Wandoo Valleys North	0	
19	Darling Plateau	Powder Bark Wandoo Valleys	0	
20	Darling Plateau	Granite Outcrops	0	
21	Various Systems	Esturies / Open Water	2	
22	Collie Plain	Uplands	0	
23	Collie Plain	Depressions / Swamps	0	
24	Dandaragan Plateau	Uplands	0	
25	Dandaragan Plateau	Valleys	0	
26	Swan Coastal Plain	Uplands	0	
27	Swan Coastal Plain	Valleys	0	
28	Southern Plains	Jarrah	0	
29	Southern Plains	Karri	0	
30	Southern Plains	Heath / Sedgeland	0	
31	South Coast Dunes	South Coast Dunes	0	
32	Blackwood Plateau	Jarrah Uplands	0	
33	Blackwood Plateau	Karri Uplands	0	
34	Blackwood Plateau	Depressions / Swamps	0	
35	Blackwood Plateau	Valleys	0	
36	Margaret River Plateau	Jarrah Uplands	0	
37	Margaret River Plateau	Karri Uplands	0	
38	Margaret River Plateau	Jarrah Valleys	0	
39	Margaret River Plateau	Karri Valleys	0	
40	Lewin Naturalist Coast	Jarrah	0	
41	Lewin Naturalist Coast	Marri/Karri	0	
42	Lewin Naturalist Coast	Coast Heath	0	
43	Scott Coastal Plain	Uplands	0	
44	Scott Coastal Plain	Valleys / Swamps	0	
45	Redmond	Uplands	0	
46	Redmond	Valleys	0	
47	Unicup	Jarrah Uplands	0	
48	Unicup	Wandoo Uplands	0	
49	Unicup	Jarrah Valleys	0	
50	Unicup	Wandoo Valleys	0	
51	Unicup	Scrubland	0	
53	Darling Plateau	Wandoo Uplands South	0	
54	Darling Plateau	Wandoo Valleys South	0	

## Appendix 2b

Fauna Habitat ID	FDIS LAND SYSTEM	FDIS LANDSCAPE UNIT	SCORE	Origin
Hooded Plover				
1	Darling Plateau	Jarrah Uplands North	0	
2	Darling Plateau	Jarrah Uplands East	0	
3	Darling Plateau	Jarrah Uplands South	0	
4	Darling Plateau	Jarrah Uplands South East	0	
5	Darling Plateau	Karri Uplands	0	
6	Darling Plateau	Wandoo Uplands North	0	
7	Darling Plateau	Powder Bark Uplands	0	
8	Darling Plateau	Scarp	0	
9	Darling Plateau	Depression / Swamps North	0	
10	Darling Plateau	Depressions / Swamps South	1	
11	Darling Plateau	Depressions / Swamps East	1	
12	Darling Plateau	Depressions / Swamps South East	1	
13	Darling Plateau	Jarrah Valleys North	0	
14	Darling Plateau	Jarrah Valleys East	0	
15	Darling Plateau	Jarrah Valleys South	0	
16	Darling Plateau	Jarrah Valleys South East	0	
17	Darling Plateau	Karri Valleys	0	
18	Darling Plateau	Wandoo Valleys North	0	
19	Darling Plateau	Powder Bark Wandoo Valleys	0	
20	Darling Plateau	Granite Outcrops	0	
21	Various Systems	Esturies / Open Water	2	
22	Collie Plain	Uplands	0	
23	Collie Plain	Depressions / Swamps	0	
24	Dandaragan Plateau	Uplands	0	
25	Dandaragan Plateau	Valleys	0	
26	Swan Coastal Plain	Uplands	0	
27	Swan Coastal Plain	Valleys	0	
28	Southern Plains	Jarrah	0	
29	Southern Plains	Karri	0	
30	Southern Plains	Heath / Sedgeland	1	
31	South Coast Dunes	South Coast Dunes	0	
32	Blackwood Plateau	Jarrah Uplands	0	
33	Blackwood Plateau	Karri Uplands	0	
34	Blackwood Plateau	Depressions / Swamps	0	
35	Blackwood Plateau	Valleys	0	
36	Margaret River Plateau	Jarrah Uplands	0	
37	Margaret River Plateau	Karri Uplands	0	
38	Margaret River Plateau	Jarrah Valleys	0	
39	Margaret River Plateau	Karri Valleys	0	
40	Lewin Naturalist Coast	Jarrah	0	
41	Lewin Naturalist Coast	Marri/Karri	0	
42	Lewin Naturalist Coast	Coast Heath	0	
43	Scott Coastal Plain	Uplands	0	
44	Scott Coastal Plain	Valleys / Swamps	1	
45	Redmond	Uplands	0	
46	Redmond	Valleys	0	
47	Unicup	Jarrah Uplands	0	
48	Unicup	Wandoo Uplands	0	
49	Unicup	Jarrah Valleys	1	
50	Unicup	Wandoo Valleys	1	
51	Unicup	Scrubland	1	
53	Darling Plateau	Wandoo Uplands South	0	
54	Darling Plateau	Wandoo Valleys South	0	



## Appendix 2b

Fauna Habitat ID	FDIS LAND SYSTEM	FDIS LANDSCAPE UNIT	SCORE	Origin
Spotted Turtle-Dove *				
1	Darling Plateau	Jarrah Uplands North	1	
2	Darling Plateau	Jarrah Uplands East	1	
3	Darling Plateau	Jarrah Uplands South	0	
4	Darling Plateau	Jarrah Uplands South East	1	
5	Darling Plateau	Karri Uplands	0	
6	Darling Plateau	Wandoo Uplands North	0	
7	Darling Plateau	Powder Bark Uplands	0	
8	Darling Plateau	Scarp	1	
9	Darling Plateau	Depression / Swamps North	1	
10	Darling Plateau	Depressions / Swamps South	0	
11	Darling Plateau	Depressions / Swamps East	0	
12	Darling Plateau	Depressions / Swamps South East	0	
13	Darling Plateau	Jarrah Valleys North	0	
14	Darling Plateau	Jarrah Valleys East	0	
15	Darling Plateau	Jarrah Valleys South	0	
16	Darling Plateau	Jarrah Valleys South East	0	
17	Darling Plateau	Karri Valleys	0	
18	Darling Plateau	Wandoo Valleys North	0	
19	Darling Plateau	Powder Bark Wandoo Valleys	0	
20	Darling Plateau	Granite Outcrops	0	
21	Various Systems	Esturies / Open Water	0	
22	Collie Plain	Uplands	0	
23	Collie Plain	Depressions / Swamps	0	
24	Dandaragan Plateau	Uplands	1	
25	Dandaragan Plateau	Valleys	0	
26	Swan Coastal Plain	Uplands	1	
27	Swan Coastal Plain	Valleys	1	
28	Southern Plains	Jarrah	0	
29	Southern Plains	Karri	0	
30	Southern Plains	Heath / Sedgeland	0	
31	South Coast Dunes	South Coast Dunes	0	
32	Blackwood Plateau	Jarrah Uplands	0	
33	Blackwood Plateau	Karri Uplands	0	
34	Blackwood Plateau	Depressions / Swamps	0	
35	Blackwood Plateau	Valleys	0	
36	Margaret River Plateau	Jarrah Uplands	0	
37	Margaret River Plateau	Karri Uplands	0	
38	Margaret River Plateau	Jarrah Valleys	0	
39	Margaret River Plateau	Karri Valleys	0	
40	Lewin Naturalist Coast	Jarrah	0	
41	Lewin Naturalist Coast	Marri/Karri	0	
42	Lewin Naturalist Coast	Coast Heath	0	
43	Scott Coastal Plain	Uplands	0	
44	Scott Coastal Plain	Valleys / Swamps	0	
45	Redmond	Uplands	0	
46	Redmond	Valleys	0	
47	Unicup	Jarrah Uplands	0	
48	Unicup	Wandoo Uplands	0	
49	Unicup	Jarrah Valleys	0	
50	Unicup	Wandoo Valleys	0	
51	Unicup	Scrubland	0	
53	Darling Plateau	Wandoo Uplands South	0	
54	Darling Plateau	Wandoo Valleys South	0	

## Appendix 2b

Fauna Habitat ID	FDIS LAND SYSTEM	FDIS LANDSCAPE UNIT	SCORE	Origin
Laughing Turtle-Dove *				
1	Darling Plateau	Jarrah Uplands North	1	
2	Darling Plateau	Jarrah Uplands East	1	
3	Darling Plateau	Jarrah Uplands South	0	
4	Darling Plateau	Jarrah Uplands South East	1	
5	Darling Plateau	Karri Uplands	0	
6	Darling Plateau	Wandoo Uplands North	1	
7	Darling Plateau	Powder Bark Uplands	0	
8	Darling Plateau	Scarp	1	
9	Darling Plateau	Depression / Swamps North	1	
10	Darling Plateau	Depressions / Swamps South	0	
11	Darling Plateau	Depressions / Swamps East	0	
12	Darling Plateau	Depressions / Swamps South East	0	
13	Darling Plateau	Jarrah Valleys North	1	
14	Darling Plateau	Jarrah Valleys East	0	
15	Darling Plateau	Jarrah Valleys South	0	
16	Darling Plateau	Jarrah Valleys South East	1	
17	Darling Plateau	Karri Valleys	0	
18	Darling Plateau	Wandoo Valleys North	1	
19	Darling Plateau	Powder Bark Wandoo Valleys	0	
20	Darling Plateau	Granite Outcrops	0	
21	Various Systems	Esturies / Open Water	0	
22	Collie Plain	Uplands	1	
23	Collie Plain	Depressions / Swamps	0	
24	Dandaragan Plateau	Uplands	1	
25	Dandaragan Plateau	Valleys	1	
26	Swan Coastal Plain	Uplands	1	
27	Swan Coastal Plain	Valleys	1	
28	Southern Plains	Jarrah	0	
29	Southern Plains	Karri	0	
30	Southern Plains	Heath / Sedgeland	0	
31	South Coast Dunes	South Coast Dunes	0	
32	Blackwood Plateau	Jarrah Uplands	0	
33	Blackwood Plateau	Karri Uplands	0	
34	Blackwood Plateau	Depressions / Swamps	0	
35	Blackwood Plateau	Valleys	0	
36	Margaret River Plateau	Jarrah Uplands	0	
37	Margaret River Plateau	Karri Uplands	0	
38	Margaret River Plateau	Jarrah Valleys	0	
39	Margaret River Plateau	Karri Valleys	0	
40	Lewin Naturalist Coast	Jarrah	0	
41	Lewin Naturalist Coast	Marri/Karri	0	
42	Lewin Naturalist Coast	Coast Heath	0	
43	Scott Coastal Plain	Uplands	0	
44	Scott Coastal Plain	Valleys / Swamps	0	
45	Redmond	Uplands	1	
46	Redmond	Valleys	0	
47	Unicup	Jarrah Uplands	1	
48	Unicup	Wandoo Uplands	0	
49	Unicup	Jarrah Valleys	0	
50	Unicup	Wandoo Valleys	0	
51	Unicup	Scrubland	0	
53	Darling Plateau	Wandoo Uplands South	1	
54	Darling Plateau	Wandoo Valleys South	1	

## Appendix 2b

Fauna Habitat ID	FDIS LAND SYSTEM	FDIS LANDSCAPE UNIT	SCORE	Origin
Common Bronzewing				
1	Darling Plateau	Jarrah Uplands North	3	
2	Darling Plateau	Jarrah Uplands East	3	
3	Darling Plateau	Jarrah Uplands South	2	
4	Darling Plateau	Jarrah Uplands South East	3	
5	Darling Plateau	Karri Uplands	1	
6	Darling Plateau	Wandoo Uplands North	3	
7	Darling Plateau	Powder Bark Uplands	3	
8	Darling Plateau	Scarp	3	
9	Darling Plateau	Depression / Swamps North	3	
10	Darling Plateau	Depressions / Swamps South	2	
11	Darling Plateau	Depressions / Swamps East	2	
12	Darling Plateau	Depressions / Swamps South East	2	
13	Darling Plateau	Jarrah Valleys North	3	
14	Darling Plateau	Jarrah Valleys East	3	
15	Darling Plateau	Jarrah Valleys South	2	
16	Darling Plateau	Jarrah Valleys South East	3	
17	Darling Plateau	Karri Valleys	1	
18	Darling Plateau	Wandoo Valleys North	3	
19	Darling Plateau	Powder Bark Wandoo Valleys	3	
20	Darling Plateau	Granite Outcrops	2	
21	Various Systems	Esturies / Open Water	0	
22	Collie Plain	Uplands	3	
23	Collie Plain	Depressions / Swamps	2	
24	Dandaragan Plateau	Uplands	3	
25	Dandaragan Plateau	Valleys	3	
26	Swan Coastal Plain	Uplands	3	
27	Swan Coastal Plain	Valleys	3	
28	Southern Plains	Jarrah	2	
29	Southern Plains	Karri	1	
30	Southern Plains	Heath / Sedgeland	2	
31	South Coast Dunes	South Coast Dunes	1	
32	Blackwood Plateau	Jarrah Uplands	2	
33	Blackwood Plateau	Karri Uplands	1	
34	Blackwood Plateau	Depressions / Swamps	2	
35	Blackwood Plateau	Valleys	2	
36	Margaret River Plateau	Jarrah Uplands	2	
37	Margaret River Plateau	Karri Uplands	1	
38	Margaret River Plateau	Jarrah Valleys	2	
39	Margaret River Plateau	Karri Valleys	1	
40	Lewin Naturalist Coast	Jarrah	2	
41	Lewin Naturalist Coast	Marri/Karri	1	
42	Lewin Naturalist Coast	Coast Heath	2	
43	Scott Coastal Plain	Uplands	2	
44	Scott Coastal Plain	Valleys / Swamps	2	
45	Redmond	Uplands	3	
46	Redmond	Valleys	2	
47	Unicup	Jarrah Uplands	3	
48	Unicup	Wandoo Uplands	3	
49	Unicup	Jarrah Valleys	3	
50	Unicup	Wandoo Valleys	3	
51	Unicup	Scrubland	3	
53	Darling Plateau	Wandoo Uplands South	3	
54	Darling Plateau	Wandoo Valleys South	3	

## Appendix 2b

Fauna Habitat ID	FDIS LAND SYSTEM	FDIS LANDSCAPE UNIT	SCORE	Origin
Brush Bronzewing				
1	Darling Plateau	Jarrah Uplands North	2	
2	Darling Plateau	Jarrah Uplands East	1	
3	Darling Plateau	Jarrah Uplands South	3	
4	Darling Plateau	Jarrah Uplands South East	1	
5	Darling Plateau	Karri Uplands	3	
6	Darling Plateau	Wandoo Uplands North	1	
7	Darling Plateau	Powder Bark Uplands	1	
8	Darling Plateau	Scarp	2	
9	Darling Plateau	Depression / Swamps North	2	
10	Darling Plateau	Depressions / Swamps South	3	
11	Darling Plateau	Depressions / Swamps East	1	
12	Darling Plateau	Depressions / Swamps South East	2	
13	Darling Plateau	Jarrah Valleys North	2	
14	Darling Plateau	Jarrah Valleys East	1	
15	Darling Plateau	Jarrah Valleys South	3	
16	Darling Plateau	Jarrah Valleys South East	1	
17	Darling Plateau	Karri Valleys	3	
18	Darling Plateau	Wandoo Valleys North	1	
19	Darling Plateau	Powder Bark Wandoo Valleys	1	
20	Darling Plateau	Granite Outcrops	2	
21	Various Systems	Esturies / Open Water	0	
22	Collie Plain	Uplands	2	
23	Collie Plain	Depressions / Swamps	2	
24	Dandaragan Plateau	Uplands	1	
25	Dandaragan Plateau	Valleys	1	
26	Swan Coastal Plain	Uplands	2	
27	Swan Coastal Plain	Valleys	2	
28	Southern Plains	Jarrah	3	
29	Southern Plains	Karri	3	
30	Southern Plains	Heath / Sedgeland	3	
31	South Coast Dunes	South Coast Dunes	3	
32	Blackwood Plateau	Jarrah Uplands	3	
33	Blackwood Plateau	Karri Uplands	3	
34	Blackwood Plateau	Depressions / Swamps	3	
35	Blackwood Plateau	Valleys	3	
36	Margaret River Plateau	Jarrah Uplands	3	
37	Margaret River Plateau	Karri Uplands	3	
38	Margaret River Plateau	Jarrah Valleys	3	
39	Margaret River Plateau	Karri Valleys	3	
40	Lewin Naturalist Coast	Jarrah	3	
41	Lewin Naturalist Coast	Marri/Karri	3	
42	Lewin Naturalist Coast	Coast Heath	2	
43	Scott Coastal Plain	Uplands	3	
44	Scott Coastal Plain	Valleys / Swamps	3	
45	Redmond	Uplands	3	
46	Redmond	Valleys	3	
47	Unicup	Jarrah Uplands	2	
48	Unicup	Wandoo Uplands	2	
49	Unicup	Jarrah Valleys	2	
50	Unicup	Wandoo Valleys	2	
51	Unicup	Scrubland	2	
53	Darling Plateau	Wandoo Uplands South	1	
54	Darling Plateau	Wandoo Valleys South	1	

## Appendix 2b

Fauna Habitat ID	FDIS LAND SYSTEM	FDIS LANDSCAPE UNIT	SCORE	Origin
Crested Pigeon				
1	Darling Plateau	Jarrah Uplands North	0	
2	Darling Plateau	Jarrah Uplands East	0	
3	Darling Plateau	Jarrah Uplands South	0	
4	Darling Plateau	Jarrah Uplands South East	0	
5	Darling Plateau	Karri Uplands	0	
6	Darling Plateau	Wandoo Uplands North	1	
7	Darling Plateau	Powder Bark Uplands	1	
8	Darling Plateau	Scarp	0	
9	Darling Plateau	Depression / Swamps North	0	
10	Darling Plateau	Depressions / Swamps South	0	
11	Darling Plateau	Depressions / Swamps East	1	
12	Darling Plateau	Depressions / Swamps South East	0	
13	Darling Plateau	Jarrah Valleys North	0	
14	Darling Plateau	Jarrah Valleys East	0	
15	Darling Plateau	Jarrah Valleys South	0	
16	Darling Plateau	Jarrah Valleys South East	0	
17	Darling Plateau	Karri Valleys	0	
18	Darling Plateau	Wandoo Valleys North	1	
19	Darling Plateau	Powder Bark Wandoo Valleys	1	
20	Darling Plateau	Granite Outcrops	0	
21	Various Systems	Esturies / Open Water	0	
22	Collie Plain	Uplands	0	
23	Collie Plain	Depressions / Swamps	0	
24	Dandaragan Plateau	Uplands	1	
25	Dandaragan Plateau	Valleys	1	
26	Swan Coastal Plain	Uplands	1	
27	Swan Coastal Plain	Valleys	1	
28	Southern Plains	Jarrah	0	
29	Southern Plains	Karri	0	
30	Southern Plains	Heath / Sedgeland	0	
31	South Coast Dunes	South Coast Dunes	0	
32	Blackwood Plateau	Jarrah Uplands	0	
33	Blackwood Plateau	Karri Uplands	0	
34	Blackwood Plateau	Depressions / Swamps	0	
35	Blackwood Plateau	Valleys	0	
36	Margaret River Plateau	Jarrah Uplands	0	
37	Margaret River Plateau	Karri Uplands	0	
38	Margaret River Plateau	Jarrah Valleys	0	
39	Margaret River Plateau	Karri Valleys	0	
40	Lewin Naturalist Coast	Jarrah	0	
41	Lewin Naturalist Coast	Marri/Karri	0	
42	Lewin Naturalist Coast	Coast Heath	0	
43	Scott Coastal Plain	Uplands	0	
44	Scott Coastal Plain	Valleys / Swamps	0	
45	Redmond	Uplands	0	
46	Redmond	Valleys	0	
47	Unicup	Jarrah Uplands	0	
48	Unicup	Wandoo Uplands	0	
49	Unicup	Jarrah Valleys	0	
50	Unicup	Wandoo Valleys	0	
51	Unicup	Scrubland	0	
53	Darling Plateau	Wandoo Uplands South	1	
54	Darling Plateau	Wandoo Valleys South	1	

## Appendix 2b

Fauna Habitat ID	FDIS LAND SYSTEM	FDIS LANDSCAPE UNIT	SCORE	Origin
Forest Red-tailed Black Cockatoo				
1	Darling Plateau	Jarrah Uplands North	3	
2	Darling Plateau	Jarrah Uplands East	3	
3	Darling Plateau	Jarrah Uplands South	3	
4	Darling Plateau	Jarrah Uplands South East	3	
5	Darling Plateau	Karri Uplands	2	
6	Darling Plateau	Wandoo Uplands North	2	
7	Darling Plateau	Powder Bark Uplands	1	
8	Darling Plateau	Scarp	3	
9	Darling Plateau	Depression / Swamps North	3	
10	Darling Plateau	Depressions / Swamps South	1	
11	Darling Plateau	Depressions / Swamps East	1	
12	Darling Plateau	Depressions / Swamps South East	1	
13	Darling Plateau	Jarrah Valleys North	3	
14	Darling Plateau	Jarrah Valleys East	3	
15	Darling Plateau	Jarrah Valleys South	3	
16	Darling Plateau	Jarrah Valleys South East	3	
17	Darling Plateau	Karri Valleys	2	
18	Darling Plateau	Wandoo Valleys North	2	
19	Darling Plateau	Powder Bark Wandoo Valleys	1	
20	Darling Plateau	Granite Outcrops	1	
21	Various Systems	Esturies / Open Water	0	
22	Collie Plain	Uplands	2	
23	Collie Plain	Depressions / Swamps	1	
24	Dandaragan Plateau	Uplands	2	
25	Dandaragan Plateau	Valleys	2	
26	Swan Coastal Plain	Uplands	1	
27	Swan Coastal Plain	Valleys	0	
28	Southern Plains	Jarrah	3	
29	Southern Plains	Karri	2	
30	Southern Plains	Heath / Sedgeland	0	
31	South Coast Dunes	South Coast Dunes	0	
32	Blackwood Plateau	Jarrah Uplands	3	
33	Blackwood Plateau	Karri Uplands	2	
34	Blackwood Plateau	Depressions / Swamps	3	
35	Blackwood Plateau	Valleys	3	
36	Margaret River Plateau	Jarrah Uplands	3	
37	Margaret River Plateau	Karri Uplands	2	
38	Margaret River Plateau	Jarrah Valleys	3	
39	Margaret River Plateau	Karri Valleys	2	
40	Lewin Naturalist Coast	Jarrah	3	
41	Lewin Naturalist Coast	Marri/Karri	2	
42	Lewin Naturalist Coast	Coast Heath	1	
43	Scott Coastal Plain	Uplands	2	
44	Scott Coastal Plain	Valleys / Swamps	0	
45	Redmond	Uplands	3	
46	Redmond	Valleys	3	
47	Unicup	Jarrah Uplands	3	
48	Unicup	Wandoo Uplands	1	
49	Unicup	Jarrah Valleys	3	
50	Unicup	Wandoo Valleys	1	
51	Unicup	Scrubland	1	
53	Darling Plateau	Wandoo Uplands South	3	
54	Darling Plateau	Wandoo Valleys South	3	

## Appendix 2b

Fauna Habitat ID	FDIS LAND SYSTEM	FDIS LANDSCAPE UNIT	SCORE	Origin
Muir's Long-billed Corella				
1	Darling Plateau	Jarrah Uplands North	0	
2	Darling Plateau	Jarrah Uplands East	1	
3	Darling Plateau	Jarrah Uplands South	0	
4	Darling Plateau	Jarrah Uplands South East	2	
5	Darling Plateau	Karri Uplands	0	
6	Darling Plateau	Wandoo Uplands North	0	
7	Darling Plateau	Powder Bark Uplands	0	
8	Darling Plateau	Scarp	0	
9	Darling Plateau	Depression / Swamps North	0	
10	Darling Plateau	Depressions / Swamps South	0	
11	Darling Plateau	Depressions / Swamps East	0	
12	Darling Plateau	Depressions / Swamps South East	0	
13	Darling Plateau	Jarrah Valleys North	0	
14	Darling Plateau	Jarrah Valleys East	1	
15	Darling Plateau	Jarrah Valleys South	0	
16	Darling Plateau	Jarrah Valleys South East	2	
17	Darling Plateau	Karri Valleys	0	
18	Darling Plateau	Wandoo Valleys North	0	
19	Darling Plateau	Powder Bark Wandoo Valleys	0	
20	Darling Plateau	Granite Outcrops	0	
21	Various Systems	Esturies / Open Water	0	
22	Collie Plain	Uplands	0	
23	Collie Plain	Depressions / Swamps	0	
24	Dandaragan Plateau	Uplands	2	
25	Dandaragan Plateau	Valleys	2	
26	Swan Coastal Plain	Uplands	0	
27	Swan Coastal Plain	Valleys	0	
28	Southern Plains	Jarrah	0	
29	Southern Plains	Karri	0	
30	Southern Plains	Heath / Sedgeland	0	
31	South Coast Dunes	South Coast Dunes	0	
32	Blackwood Plateau	Jarrah Uplands	0	
33	Blackwood Plateau	Karri Uplands	0	
34	Blackwood Plateau	Depressions / Swamps	0	
35	Blackwood Plateau	Valleys	0	
36	Margaret River Plateau	Jarrah Uplands	0	
37	Margaret River Plateau	Karri Uplands	0	
38	Margaret River Plateau	Jarrah Valleys	0	
39	Margaret River Plateau	Karri Valleys	0	
40	Lewin Naturalist Coast	Jarrah	0	
41	Lewin Naturalist Coast	Marri/Karri	0	
42	Lewin Naturalist Coast	Coast Heath	0	
43	Scott Coastal Plain	Uplands	0	
44	Scott Coastal Plain	Valleys / Swamps	0	
45	Redmond	Uplands	2	
46	Redmond	Valleys	0	
47	Unicup	Jarrah Uplands	2	
48	Unicup	Wandoo Uplands	2	
49	Unicup	Jarrah Valleys	2	
50	Unicup	Wandoo Valleys	2	
51	Unicup	Scrubland	2	
53	Darling Plateau	Wandoo Uplands South	1	
54	Darling Plateau	Wandoo Valleys South	1	

## Appendix 2b

Fauna Habitat ID	FDIS LAND SYSTEM	FDIS LANDSCAPE UNIT	SCORE	Origin
Baudin's Cockatoo				
1	Darling Plateau	Jarrah Uplands North	3	
2	Darling Plateau	Jarrah Uplands East	3	
3	Darling Plateau	Jarrah Uplands South	3	
4	Darling Plateau	Jarrah Uplands South East	3	
5	Darling Plateau	Karri Uplands	2	
6	Darling Plateau	Wandoo Uplands North	3	
7	Darling Plateau	Powder Bark Uplands	2	
8	Darling Plateau	Scarp	3	
9	Darling Plateau	Depression / Swamps North	3	
10	Darling Plateau	Depressions / Swamps South	3	
11	Darling Plateau	Depressions / Swamps East	3	
12	Darling Plateau	Depressions / Swamps South East	3	
13	Darling Plateau	Jarrah Valleys North	3	
14	Darling Plateau	Jarrah Valleys East	3	
15	Darling Plateau	Jarrah Valleys South	3	
16	Darling Plateau	Jarrah Valleys South East	3	
17	Darling Plateau	Karri Valleys	2	
18	Darling Plateau	Wandoo Valleys North	3	
19	Darling Plateau	Powder Bark Wandoo Valleys	2	
20	Darling Plateau	Granite Outcrops	3	
21	Various Systems	Esturies / Open Water	0	
22	Collie Plain	Uplands	3	
23	Collie Plain	Depressions / Swamps	3	
24	Dandaragan Plateau	Uplands	3	
25	Dandaragan Plateau	Valleys	3	
26	Swan Coastal Plain	Uplands	3	
27	Swan Coastal Plain	Valleys	3	
28	Southern Plains	Jarrah	3	
29	Southern Plains	Karri	2	
30	Southern Plains	Heath / Sedgeland	2	
31	South Coast Dunes	South Coast Dunes	2	
32	Blackwood Plateau	Jarrah Uplands	3	
33	Blackwood Plateau	Karri Uplands	2	
34	Blackwood Plateau	Depressions / Swamps	3	
35	Blackwood Plateau	Valleys	3	
36	Margaret River Plateau	Jarrah Uplands	3	
37	Margaret River Plateau	Karri Uplands	2	
38	Margaret River Plateau	Jarrah Valleys	3	
39	Margaret River Plateau	Karri Valleys	2	
40	Lewin Naturalist Coast	Jarrah	3	
41	Lewin Naturalist Coast	Marri/Karri	2	
42	Lewin Naturalist Coast	Coast Heath	2	
43	Scott Coastal Plain	Uplands	3	
44	Scott Coastal Plain	Valleys / Swamps	2	
45	Redmond	Uplands	3	
46	Redmond	Valleys	3	
47	Unicup	Jarrah Uplands	3	
48	Unicup	Wandoo Uplands	3	
49	Unicup	Jarrah Valleys	3	
50	Unicup	Wandoo Valleys	3	
51	Unicup	Scrubland	3	
53	Darling Plateau	Wandoo Uplands South	3	
54	Darling Plateau	Wandoo Valleys South	3	



## Appendix 2b

Fauna Habitat ID	FDIS LAND SYSTEM	FDIS LANDSCAPE UNIT	SCORE	Origin
Carnaby's Cockatoo				
1	Darling Plateau	Jarrah Uplands North	0	
2	Darling Plateau	Jarrah Uplands East	0	
3	Darling Plateau	Jarrah Uplands South	0	
4	Darling Plateau	Jarrah Uplands South East	0	
5	Darling Plateau	Karri Uplands	0	
6	Darling Plateau	Wandoo Uplands North	1	
7	Darling Plateau	Powder Bark Uplands	1	
8	Darling Plateau	Scarp	0	
9	Darling Plateau	Depression / Swamps North	0	
10	Darling Plateau	Depressions / Swamps South	0	
11	Darling Plateau	Depressions / Swamps East	0	
12	Darling Plateau	Depressions / Swamps South East	0	
13	Darling Plateau	Jarrah Valleys North	0	
14	Darling Plateau	Jarrah Valleys East	0	
15	Darling Plateau	Jarrah Valleys South	0	
16	Darling Plateau	Jarrah Valleys South East	0	
17	Darling Plateau	Karri Valleys	0	
18	Darling Plateau	Wandoo Valleys North	1	
19	Darling Plateau	Powder Bark Wandoo Valleys	1	
20	Darling Plateau	Granite Outcrops	0	
21	Various Systems	Esturies / Open Water	0	
22	Collie Plain	Uplands	0	
23	Collie Plain	Depressions / Swamps	0	
24	Dandaragan Plateau	Uplands	1	
25	Dandaragan Plateau	Valleys	1	
26	Swan Coastal Plain	Uplands	1	
27	Swan Coastal Plain	Valleys	1	
28	Southern Plains	Jarrah	0	
29	Southern Plains	Karri	0	
30	Southern Plains	Heath / Sedgeland	0	
31	South Coast Dunes	South Coast Dunes	0	
32	Blackwood Plateau	Jarrah Uplands	0	
33	Blackwood Plateau	Karri Uplands	0	
34	Blackwood Plateau	Depressions / Swamps	0	
35	Blackwood Plateau	Valleys	0	
36	Margaret River Plateau	Jarrah Uplands	0	
37	Margaret River Plateau	Karri Uplands	0	
38	Margaret River Plateau	Jarrah Valleys	0	
39	Margaret River Plateau	Karri Valleys	0	
40	Lewin Naturalist Coast	Jarrah	0	
41	Lewin Naturalist Coast	Marri/Karri	0	
42	Lewin Naturalist Coast	Coast Heath	0	
43	Scott Coastal Plain	Uplands	0	
44	Scott Coastal Plain	Valleys / Swamps	0	
45	Redmond	Uplands	0	
46	Redmond	Valleys	0	
47	Unicup	Jarrah Uplands	0	
48	Unicup	Wandoo Uplands	0	
49	Unicup	Jarrah Valleys	0	
50	Unicup	Wandoo Valleys	0	
51	Unicup	Scrubland	0	
53	Darling Plateau	Wandoo Uplands South	1	
54	Darling Plateau	Wandoo Valleys South	1	

## Appendix 2b

Fauna Habitat ID	FDIS LAND SYSTEM	FDIS LANDSCAPE UNIT	SCORE	Origin
Galah				
1	Darling Plateau	Jarrah Uplands North	1	
2	Darling Plateau	Jarrah Uplands East	1	
3	Darling Plateau	Jarrah Uplands South	1	
4	Darling Plateau	Jarrah Uplands South East	1	
5	Darling Plateau	Karri Uplands	0	
6	Darling Plateau	Wandoo Uplands North	1	
7	Darling Plateau	Powder Bark Uplands	2	
8	Darling Plateau	Scarp	1	
9	Darling Plateau	Depression / Swamps North	1	
10	Darling Plateau	Depressions / Swamps South	0	
11	Darling Plateau	Depressions / Swamps East	1	
12	Darling Plateau	Depressions / Swamps South East	1	
13	Darling Plateau	Jarrah Valleys North	1	
14	Darling Plateau	Jarrah Valleys East	1	
15	Darling Plateau	Jarrah Valleys South	0	
16	Darling Plateau	Jarrah Valleys South East	1	
17	Darling Plateau	Karri Valleys	0	
18	Darling Plateau	Wandoo Valleys North	1	
19	Darling Plateau	Powder Bark Wandoo Valleys	2	
20	Darling Plateau	Granite Outcrops	0	
21	Various Systems	Esturies / Open Water	0	
22	Collie Plain	Uplands	0	
23	Collie Plain	Depressions / Swamps	0	
24	Dandaragan Plateau	Uplands	2	
25	Dandaragan Plateau	Valleys	2	
26	Swan Coastal Plain	Uplands	2	
27	Swan Coastal Plain	Valleys	2	
28	Southern Plains	Jarrah	0	
29	Southern Plains	Karri	0	
30	Southern Plains	Heath / Sedgeland	0	
31	South Coast Dunes	South Coast Dunes	0	
32	Blackwood Plateau	Jarrah Uplands	0	
33	Blackwood Plateau	Karri Uplands	0	
34	Blackwood Plateau	Depressions / Swamps	0	
35	Blackwood Plateau	Valleys	0	
36	Margaret River Plateau	Jarrah Uplands	1	
37	Margaret River Plateau	Karri Uplands	0	
38	Margaret River Plateau	Jarrah Valleys	0	
39	Margaret River Plateau	Karri Valleys	0	
40	Lewin Naturalist Coast	Jarrah	0	
41	Lewin Naturalist Coast	Marri/Karri	0	
42	Lewin Naturalist Coast	Coast Heath	0	
43	Scott Coastal Plain	Uplands	0	
44	Scott Coastal Plain	Valleys / Swamps	0	
45	Redmond	Uplands	1	
46	Redmond	Valleys	0	
47	Unicup	Jarrah Uplands	1	
48	Unicup	Wandoo Uplands	1	
49	Unicup	Jarrah Valleys	1	
50	Unicup	Wandoo Valleys	1	
51	Unicup	Scrubland	1	
53	Darling Plateau	Wandoo Uplands South	1	
54	Darling Plateau	Wandoo Valleys South	1	

## Appendix 2b

Fauna Habitat ID	FDIS LAND SYSTEM	FDIS LANDSCAPE UNIT	SCORE	Origin
Little Corella				
1	Darling Plateau	Jarrah Uplands North	0	
2	Darling Plateau	Jarrah Uplands East	0	
3	Darling Plateau	Jarrah Uplands South	0	
4	Darling Plateau	Jarrah Uplands South East	0	
5	Darling Plateau	Karri Uplands	0	
6	Darling Plateau	Wandoo Uplands North	0	
7	Darling Plateau	Powder Bark Uplands	0	
8	Darling Plateau	Scarp	0	
9	Darling Plateau	Depression / Swamps North	0	
10	Darling Plateau	Depressions / Swamps South	0	
11	Darling Plateau	Depressions / Swamps East	0	
12	Darling Plateau	Depressions / Swamps South East	0	
13	Darling Plateau	Jarrah Valleys North	0	
14	Darling Plateau	Jarrah Valleys East	0	
15	Darling Plateau	Jarrah Valleys South	0	
16	Darling Plateau	Jarrah Valleys South East	0	
17	Darling Plateau	Karri Valleys	0	
18	Darling Plateau	Wandoo Valleys North	0	
19	Darling Plateau	Powder Bark Wandoo Valleys	0	
20	Darling Plateau	Granite Outcrops	0	
21	Various Systems	Esturies / Open Water	0	
22	Collie Plain	Uplands	0	
23	Collie Plain	Depressions / Swamps	0	
24	Dandaragan Plateau	Uplands	0	
25	Dandaragan Plateau	Valleys	0	
26	Swan Coastal Plain	Uplands	1	
27	Swan Coastal Plain	Valleys	1	
28	Southern Plains	Jarrah	0	
29	Southern Plains	Karri	0	
30	Southern Plains	Heath / Sedgeland	0	
31	South Coast Dunes	South Coast Dunes	0	
32	Blackwood Plateau	Jarrah Uplands	0	
33	Blackwood Plateau	Karri Uplands	0	
34	Blackwood Plateau	Depressions / Swamps	0	
35	Blackwood Plateau	Valleys	0	
36	Margaret River Plateau	Jarrah Uplands	0	
37	Margaret River Plateau	Karri Uplands	0	
38	Margaret River Plateau	Jarrah Valleys	0	
39	Margaret River Plateau	Karri Valleys	0	
40	Lewin Naturalist Coast	Jarrah	0	
41	Lewin Naturalist Coast	Marri/Karri	0	
42	Lewin Naturalist Coast	Coast Heath	0	
43	Scott Coastal Plain	Uplands	0	
44	Scott Coastal Plain	Valleys / Swamps	0	
45	Redmond	Uplands	0	
46	Redmond	Valleys	0	
47	Unicup	Jarrah Uplands	0	
48	Unicup	Wandoo Uplands	0	
49	Unicup	Jarrah Valleys	0	
50	Unicup	Wandoo Valleys	0	
51	Unicup	Scrubland	0	
53	Darling Plateau	Wandoo Uplands South	0	
54	Darling Plateau	Wandoo Valleys South	0	

## Appendix 2b

Fauna Habitat ID	FDIS LAND SYSTEM	FDIS LANDSCAPE UNIT	SCORE	Origin
Suphur-crested Cockatoo *				
1	Darling Plateau	Jarrah Uplands North	0	
2	Darling Plateau	Jarrah Uplands East	0	
3	Darling Plateau	Jarrah Uplands South	0	
4	Darling Plateau	Jarrah Uplands South East	0	
5	Darling Plateau	Karri Uplands	0	
6	Darling Plateau	Wandoo Uplands North	0	
7	Darling Plateau	Powder Bark Uplands	0	
8	Darling Plateau	Scarp	0	
9	Darling Plateau	Depression / Swamps North	0	
10	Darling Plateau	Depressions / Swamps South	0	
11	Darling Plateau	Depressions / Swamps East	0	
12	Darling Plateau	Depressions / Swamps South East	0	
13	Darling Plateau	Jarrah Valleys North	0	
14	Darling Plateau	Jarrah Valleys East	0	
15	Darling Plateau	Jarrah Valleys South	0	
16	Darling Plateau	Jarrah Valleys South East	0	
17	Darling Plateau	Karri Valleys	0	
18	Darling Plateau	Wandoo Valleys North	0	
19	Darling Plateau	Powder Bark Wandoo Valleys	0	
20	Darling Plateau	Granite Outcrops	0	
21	Various Systems	Esturies / Open Water	0	
22	Collie Plain	Uplands	0	
23	Collie Plain	Depressions / Swamps	0	
24	Dandaragan Plateau	Uplands	0	
25	Dandaragan Plateau	Valleys	0	
26	Swan Coastal Plain	Uplands	1	
27	Swan Coastal Plain	Valleys	1	
28	Southern Plains	Jarrah	0	
29	Southern Plains	Karri	0	
30	Southern Plains	Heath / Sedgeland	0	
31	South Coast Dunes	South Coast Dunes	0	
32	Blackwood Plateau	Jarrah Uplands	0	
33	Blackwood Plateau	Karri Uplands	0	
34	Blackwood Plateau	Depressions / Swamps	0	
35	Blackwood Plateau	Valleys	0	
36	Margaret River Plateau	Jarrah Uplands	0	
37	Margaret River Plateau	Karri Uplands	0	
38	Margaret River Plateau	Jarrah Valleys	0	
39	Margaret River Plateau	Karri Valleys	0	
40	Lewin Naturalist Coast	Jarrah	0	
41	Lewin Naturalist Coast	Marri/Karri	0	
42	Lewin Naturalist Coast	Coast Heath	0	
43	Scott Coastal Plain	Uplands	0	
44	Scott Coastal Plain	Valleys / Swamps	0	
45	Redmond	Uplands	0	
46	Redmond	Valleys	0	
47	Unicup	Jarrah Uplands	0	
48	Unicup	Wandoo Uplands	0	
49	Unicup	Jarrah Valleys	0	
50	Unicup	Wandoo Valleys	0	
51	Unicup	Scrubland	0	
53	Darling Plateau	Wandoo Uplands South	0	
54	Darling Plateau	Wandoo Valleys South	0	

## Appendix 2b

Fauna Habitat ID	FDIS LAND SYSTEM	FDIS LANDSCAPE UNIT	SCORE	Origin
Purple-crowned Lorikeet				
1	Darling Plateau	Jarrah Uplands North	2	
2	Darling Plateau	Jarrah Uplands East	2	
3	Darling Plateau	Jarrah Uplands South	2	
4	Darling Plateau	Jarrah Uplands South East	3	
5	Darling Plateau	Karri Uplands	3	
6	Darling Plateau	Wandoo Uplands North	2	
7	Darling Plateau	Powder Bark Uplands	3	
8	Darling Plateau	Scarp	2	
9	Darling Plateau	Depression / Swamps North	2	
10	Darling Plateau	Depressions / Swamps South	2	
11	Darling Plateau	Depressions / Swamps East	2	
12	Darling Plateau	Depressions / Swamps South East	2	
13	Darling Plateau	Jarrah Valleys North	2	
14	Darling Plateau	Jarrah Valleys East	2	
15	Darling Plateau	Jarrah Valleys South	2	
16	Darling Plateau	Jarrah Valleys South East	3	
17	Darling Plateau	Karri Valleys	3	
18	Darling Plateau	Wandoo Valleys North	2	
19	Darling Plateau	Powder Bark Wandoo Valleys	3	
20	Darling Plateau	Granite Outcrops	2	
21	Various Systems	Esturies / Open Water	0	
22	Collie Plain	Uplands	2	
23	Collie Plain	Depressions / Swamps	1	
24	Dandaragan Plateau	Uplands	2	
25	Dandaragan Plateau	Valleys	2	
26	Swan Coastal Plain	Uplands	2	
27	Swan Coastal Plain	Valleys	2	
28	Southern Plains	Jarrah	2	
29	Southern Plains	Karri	3	
30	Southern Plains	Heath / Sedgeland	1	
31	South Coast Dunes	South Coast Dunes	2	
32	Blackwood Plateau	Jarrah Uplands	2	
33	Blackwood Plateau	Karri Uplands	3	
34	Blackwood Plateau	Depressions / Swamps	1	
35	Blackwood Plateau	Valleys	2	
36	Margaret River Plateau	Jarrah Uplands	2	
37	Margaret River Plateau	Karri Uplands	3	
38	Margaret River Plateau	Jarrah Valleys	2	
39	Margaret River Plateau	Karri Valleys	3	
40	Lewin Naturalist Coast	Jarrah	2	
41	Lewin Naturalist Coast	Marri/Karri	3	
42	Lewin Naturalist Coast	Coast Heath	1	
43	Scott Coastal Plain	Uplands	1	
44	Scott Coastal Plain	Valleys / Swamps	1	
45	Redmond	Uplands	3	
46	Redmond	Valleys	2	
47	Unicup	Jarrah Uplands	2	
48	Unicup	Wandoo Uplands	3	
49	Unicup	Jarrah Valleys	2	
50	Unicup	Wandoo Valleys	3	
51	Unicup	Scrubland	3	
53	Darling Plateau	Wandoo Uplands South	2	
54	Darling Plateau	Wandoo Valleys South	2	

## Appendix 2b

Fauna Habitat ID	FDIS LAND SYSTEM	FDIS LANDSCAPE UNIT	SCORE	Origin
Regent Parrot				
1	Darling Plateau	Jarrah Uplands North	0	
2	Darling Plateau	Jarrah Uplands East	1	
3	Darling Plateau	Jarrah Uplands South	0	
4	Darling Plateau	Jarrah Uplands South East	0	
5	Darling Plateau	Karri Uplands	0	
6	Darling Plateau	Wandoo Uplands North	1	
7	Darling Plateau	Powder Bark Uplands	1	
8	Darling Plateau	Scarp	0	
9	Darling Plateau	Depression / Swamps North	0	
10	Darling Plateau	Depressions / Swamps South	0	
11	Darling Plateau	Depressions / Swamps East	0	
12	Darling Plateau	Depressions / Swamps South East	0	
13	Darling Plateau	Jarrah Valleys North	0	
14	Darling Plateau	Jarrah Valleys East	0	
15	Darling Plateau	Jarrah Valleys South	0	
16	Darling Plateau	Jarrah Valleys South East	0	
17	Darling Plateau	Karri Valleys	0	
18	Darling Plateau	Wandoo Valleys North	1	
19	Darling Plateau	Powder Bark Wandoo Valleys	1	
20	Darling Plateau	Granite Outcrops	0	
21	Various Systems	Esturies / Open Water	0	
22	Collie Plain	Uplands	0	
23	Collie Plain	Depressions / Swamps	0	
24	Dandaragan Plateau	Uplands	2	
25	Dandaragan Plateau	Valleys	2	
26	Swan Coastal Plain	Uplands	1	
27	Swan Coastal Plain	Valleys	1	
28	Southern Plains	Jarrah	0	
29	Southern Plains	Karri	0	
30	Southern Plains	Heath / Sedgeland	0	
31	South Coast Dunes	South Coast Dunes	0	
32	Blackwood Plateau	Jarrah Uplands	0	
33	Blackwood Plateau	Karri Uplands	0	
34	Blackwood Plateau	Depressions / Swamps	0	
35	Blackwood Plateau	Valleys	0	
36	Margaret River Plateau	Jarrah Uplands	0	
37	Margaret River Plateau	Karri Uplands	0	
38	Margaret River Plateau	Jarrah Valleys	0	
39	Margaret River Plateau	Karri Valleys	0	
40	Lewin Naturalist Coast	Jarrah	0	
41	Lewin Naturalist Coast	Marri/Karri	0	
42	Lewin Naturalist Coast	Coast Heath	0	
43	Scott Coastal Plain	Uplands	0	
44	Scott Coastal Plain	Valleys / Swamps	0	
45	Redmond	Uplands	0	
46	Redmond	Valleys	0	
47	Unicup	Jarrah Uplands	0	
48	Unicup	Wandoo Uplands	1	
49	Unicup	Jarrah Valleys	0	
50	Unicup	Wandoo Valleys	1	
51	Unicup	Scrubland	1	
53	Darling Plateau	Wandoo Uplands South	0	
54	Darling Plateau	Wandoo Valleys South	0	

## Appendix 2b

Fauna Habitat ID	FDIS LAND SYSTEM	FDIS LANDSCAPE UNIT	SCORE	Origin
Budgerigar				
1	Darling Plateau	Jarrah Uplands North	0	
2	Darling Plateau	Jarrah Uplands East	0	
3	Darling Plateau	Jarrah Uplands South	0	
4	Darling Plateau	Jarrah Uplands South East	0	
5	Darling Plateau	Karri Uplands	0	
6	Darling Plateau	Wandoo Uplands North	1	
7	Darling Plateau	Powder Bark Uplands	1	
8	Darling Plateau	Scarp	0	
9	Darling Plateau	Depression / Swamps North	0	
10	Darling Plateau	Depressions / Swamps South	0	
11	Darling Plateau	Depressions / Swamps East	0	
12	Darling Plateau	Depressions / Swamps South East	0	
13	Darling Plateau	Jarrah Valleys North	0	
14	Darling Plateau	Jarrah Valleys East	0	
15	Darling Plateau	Jarrah Valleys South	0	
16	Darling Plateau	Jarrah Valleys South East	0	
17	Darling Plateau	Karri Valleys	0	
18	Darling Plateau	Wandoo Valleys North	1	
19	Darling Plateau	Powder Bark Wandoo Valleys	1	
20	Darling Plateau	Granite Outcrops	0	
21	Various Systems	Esturies / Open Water	0	
22	Collie Plain	Uplands	0	
23	Collie Plain	Depressions / Swamps	0	
24	Dandaragan Plateau	Uplands	1	
25	Dandaragan Plateau	Valleys	1	
26	Swan Coastal Plain	Uplands	1	
27	Swan Coastal Plain	Valleys	1	
28	Southern Plains	Jarrah	0	
29	Southern Plains	Karri	0	
30	Southern Plains	Heath / Sedgeland	0	
31	South Coast Dunes	South Coast Dunes	0	
32	Blackwood Plateau	Jarrah Uplands	0	
33	Blackwood Plateau	Karri Uplands	0	
34	Blackwood Plateau	Depressions / Swamps	0	
35	Blackwood Plateau	Valleys	0	
36	Margaret River Plateau	Jarrah Uplands	0	
37	Margaret River Plateau	Karri Uplands	0	
38	Margaret River Plateau	Jarrah Valleys	0	
39	Margaret River Plateau	Karri Valleys	0	
40	Lewin Naturalist Coast	Jarrah	0	
41	Lewin Naturalist Coast	Marri/Karri	0	
42	Lewin Naturalist Coast	Coast Heath	0	
43	Scott Coastal Plain	Uplands	0	
44	Scott Coastal Plain	Valleys / Swamps	0	
45	Redmond	Uplands	0	
46	Redmond	Valleys	0	
47	Unicup	Jarrah Uplands	0	
48	Unicup	Wandoo Uplands	1	
49	Unicup	Jarrah Valleys	0	
50	Unicup	Wandoo Valleys	1	
51	Unicup	Scrubland	1	
53	Darling Plateau	Wandoo Uplands South	0	
54	Darling Plateau	Wandoo Valleys South	0	

## Appendix 2b

Fauna Habitat ID	FDIS LAND SYSTEM	FDIS LANDSCAPE UNIT	SCORE	Origin
Red-capped Parrot				
1	Darling Plateau	Jarrah Uplands North	3	
2	Darling Plateau	Jarrah Uplands East	3	
3	Darling Plateau	Jarrah Uplands South	2	
4	Darling Plateau	Jarrah Uplands South East	3	
5	Darling Plateau	Karri Uplands	2	
6	Darling Plateau	Wandoo Uplands North	3	
7	Darling Plateau	Powder Bark Uplands	3	
8	Darling Plateau	Scarp	3	
9	Darling Plateau	Depression / Swamps North	3	
10	Darling Plateau	Depressions / Swamps South	2	
11	Darling Plateau	Depressions / Swamps East	2	
12	Darling Plateau	Depressions / Swamps South East	2	
13	Darling Plateau	Jarrah Valleys North	3	
14	Darling Plateau	Jarrah Valleys East	3	
15	Darling Plateau	Jarrah Valleys South	2	
16	Darling Plateau	Jarrah Valleys South East	3	
17	Darling Plateau	Karri Valleys	2	
18	Darling Plateau	Wandoo Valleys North	3	
19	Darling Plateau	Powder Bark Wandoo Valleys	3	
20	Darling Plateau	Granite Outcrops	2	
21	Various Systems	Esturies / Open Water	0	
22	Collie Plain	Uplands	3	
23	Collie Plain	Depressions / Swamps	2	
24	Dandaragan Plateau	Uplands	3	
25	Dandaragan Plateau	Valleys	3	
26	Swan Coastal Plain	Uplands	3	
27	Swan Coastal Plain	Valleys	3	
28	Southern Plains	Jarrah	3	
29	Southern Plains	Karri	2	
30	Southern Plains	Heath / Sedgeland	2	
31	South Coast Dunes	South Coast Dunes	2	
32	Blackwood Plateau	Jarrah Uplands	2	
33	Blackwood Plateau	Karri Uplands	2	
34	Blackwood Plateau	Depressions / Swamps	2	
35	Blackwood Plateau	Valleys	2	
36	Margaret River Plateau	Jarrah Uplands	2	
37	Margaret River Plateau	Karri Uplands	2	
38	Margaret River Plateau	Jarrah Valleys	2	
39	Margaret River Plateau	Karri Valleys	2	
40	Lewin Naturalist Coast	Jarrah	2	
41	Lewin Naturalist Coast	Marri/Karri	2	
42	Lewin Naturalist Coast	Coast Heath	2	
43	Scott Coastal Plain	Uplands	3	
44	Scott Coastal Plain	Valleys / Swamps	2	
45	Redmond	Uplands	3	
46	Redmond	Valleys	2	
47	Unicup	Jarrah Uplands	3	
48	Unicup	Wandoo Uplands	3	
49	Unicup	Jarrah Valleys	3	
50	Unicup	Wandoo Valleys	3	
51	Unicup	Scrubland	3	
53	Darling Plateau	Wandoo Uplands South	3	
54	Darling Plateau	Wandoo Valleys South	3	



## Appendix 2b

Fauna Habitat ID	FDIS LAND SYSTEM	FDIS LANDSCAPE UNIT	SCORE	Origin
Western Rosella				
1	Darling Plateau	Jarrah Uplands North	3	
2	Darling Plateau	Jarrah Uplands East	3	
3	Darling Plateau	Jarrah Uplands South	3	
4	Darling Plateau	Jarrah Uplands South East	3	
5	Darling Plateau	Karri Uplands	3	
6	Darling Plateau	Wandoo Uplands North	3	
7	Darling Plateau	Powder Bark Uplands	3	
8	Darling Plateau	Scarp	3	
9	Darling Plateau	Depression / Swamps North	3	
10	Darling Plateau	Depressions / Swamps South	3	
11	Darling Plateau	Depressions / Swamps East	3	
12	Darling Plateau	Depressions / Swamps South East	3	
13	Darling Plateau	Jarrah Valleys North	3	
14	Darling Plateau	Jarrah Valleys East	3	
15	Darling Plateau	Jarrah Valleys South	3	
16	Darling Plateau	Jarrah Valleys South East	3	
17	Darling Plateau	Karri Valleys	3	
18	Darling Plateau	Wandoo Valleys North	3	
19	Darling Plateau	Powder Bark Wandoo Valleys	3	
20	Darling Plateau	Granite Outcrops	3	
21	Various Systems	Esturies / Open Water	0	
22	Collie Plain	Uplands	3	
23	Collie Plain	Depressions / Swamps	3	
24	Dandaragan Plateau	Uplands	3	
25	Dandaragan Plateau	Valleys	3	
26	Swan Coastal Plain	Uplands	3	
27	Swan Coastal Plain	Valleys	3	
28	Southern Plains	Jarrah	3	
29	Southern Plains	Karri	3	
30	Southern Plains	Heath / Sedgeland	3	
31	South Coast Dunes	South Coast Dunes	3	
32	Blackwood Plateau	Jarrah Uplands	3	
33	Blackwood Plateau	Karri Uplands	3	
34	Blackwood Plateau	Depressions / Swamps	3	
35	Blackwood Plateau	Valleys	3	
36	Margaret River Plateau	Jarrah Uplands	3	
37	Margaret River Plateau	Karri Uplands	3	
38	Margaret River Plateau	Jarrah Valleys	3	
39	Margaret River Plateau	Karri Valleys	3	
40	Lewin Naturalist Coast	Jarrah	3	
41	Lewin Naturalist Coast	Marri/Karri	3	
42	Lewin Naturalist Coast	Coast Heath	3	
43	Scott Coastal Plain	Uplands	3	
44	Scott Coastal Plain	Valleys / Swamps	3	
45	Redmond	Uplands	3	
46	Redmond	Valleys	3	
47	Unicup	Jarrah Uplands	3	
48	Unicup	Wandoo Uplands	3	
49	Unicup	Jarrah Valleys	3	
50	Unicup	Wandoo Valleys	3	
51	Unicup	Scrubland	3	
53	Darling Plateau	Wandoo Uplands South	3	
54	Darling Plateau	Wandoo Valleys South	3	

## Appendix 2b

Fauna Habitat ID	FDIS LAND SYSTEM	FDIS LANDSCAPE UNIT	SCORE	Origin
Port Lincoln Ringneck				
1	Darling Plateau	Jarrah Uplands North	3	
2	Darling Plateau	Jarrah Uplands East	3	
3	Darling Plateau	Jarrah Uplands South	3	
4	Darling Plateau	Jarrah Uplands South East	3	
5	Darling Plateau	Karri Uplands	3	
6	Darling Plateau	Wandoo Uplands North	3	
7	Darling Plateau	Powder Bark Uplands	3	
8	Darling Plateau	Scarp	3	
9	Darling Plateau	Depression / Swamps North	3	
10	Darling Plateau	Depressions / Swamps South	3	
11	Darling Plateau	Depressions / Swamps East	3	
12	Darling Plateau	Depressions / Swamps South East	3	
13	Darling Plateau	Jarrah Valleys North	3	
14	Darling Plateau	Jarrah Valleys East	3	
15	Darling Plateau	Jarrah Valleys South	3	
16	Darling Plateau	Jarrah Valleys South East	3	
17	Darling Plateau	Karri Valleys	3	
18	Darling Plateau	Wandoo Valleys North	3	
19	Darling Plateau	Powder Bark Wandoo Valleys	3	
20	Darling Plateau	Granite Outcrops	3	
21	Various Systems	Esturies / Open Water	0	
22	Collie Plain	Uplands	3	
23	Collie Plain	Depressions / Swamps	3	
24	Dandaragan Plateau	Uplands	3	
25	Dandaragan Plateau	Valleys	3	
26	Swan Coastal Plain	Uplands	3	
27	Swan Coastal Plain	Valleys	3	
28	Southern Plains	Jarrah	3	
29	Southern Plains	Karri	3	
30	Southern Plains	Heath / Sedgeland	3	
31	South Coast Dunes	South Coast Dunes	3	
32	Blackwood Plateau	Jarrah Uplands	3	
33	Blackwood Plateau	Karri Uplands	3	
34	Blackwood Plateau	Depressions / Swamps	3	
35	Blackwood Plateau	Valleys	3	
36	Margaret River Plateau	Jarrah Uplands	3	
37	Margaret River Plateau	Karri Uplands	3	
38	Margaret River Plateau	Jarrah Valleys	3	
39	Margaret River Plateau	Karri Valleys	3	
40	Lewin Naturalist Coast	Jarrah	3	
41	Lewin Naturalist Coast	Marri/Karri	3	
42	Lewin Naturalist Coast	Coast Heath	3	
43	Scott Coastal Plain	Uplands	3	
44	Scott Coastal Plain	Valleys / Swamps	3	
45	Redmond	Uplands	3	
46	Redmond	Valleys	3	
47	Unicup	Jarrah Uplands	3	
48	Unicup	Wandoo Uplands	3	
49	Unicup	Jarrah Valleys	3	
50	Unicup	Wandoo Valleys	3	
51	Unicup	Scrubland	3	
53	Darling Plateau	Wandoo Uplands South	3	
54	Darling Plateau	Wandoo Valleys South	3	

## Appendix 2b

Fauna Habitat ID	FDIS LAND SYSTEM	FDIS LANDSCAPE UNIT	SCORE	Origin
Elegant Parrot				
1	Darling Plateau	Jarrah Uplands North	0	
2	Darling Plateau	Jarrah Uplands East	2	
3	Darling Plateau	Jarrah Uplands South	0	
4	Darling Plateau	Jarrah Uplands South East	3	
5	Darling Plateau	Karri Uplands	0	
6	Darling Plateau	Wandoo Uplands North	3	
7	Darling Plateau	Powder Bark Uplands	3	
8	Darling Plateau	Scarp	0	
9	Darling Plateau	Depression / Swamps North	1	
10	Darling Plateau	Depressions / Swamps South	1	
11	Darling Plateau	Depressions / Swamps East	2	
12	Darling Plateau	Depressions / Swamps South East	2	
13	Darling Plateau	Jarrah Valleys North	0	
14	Darling Plateau	Jarrah Valleys East	2	
15	Darling Plateau	Jarrah Valleys South	0	
16	Darling Plateau	Jarrah Valleys South East	3	
17	Darling Plateau	Karri Valleys	0	
18	Darling Plateau	Wandoo Valleys North	3	
19	Darling Plateau	Powder Bark Wandoo Valleys	3	
20	Darling Plateau	Granite Outcrops	1	
21	Various Systems	Esturies / Open Water	0	
22	Collie Plain	Uplands	1	
23	Collie Plain	Depressions / Swamps	1	
24	Dandaragan Plateau	Uplands	3	
25	Dandaragan Plateau	Valleys	3	
26	Swan Coastal Plain	Uplands	3	
27	Swan Coastal Plain	Valleys	3	
28	Southern Plains	Jarrah	1	
29	Southern Plains	Karri	0	
30	Southern Plains	Heath / Sedgeland	1	
31	South Coast Dunes	South Coast Dunes	3	
32	Blackwood Plateau	Jarrah Uplands	0	
33	Blackwood Plateau	Karri Uplands	0	
34	Blackwood Plateau	Depressions / Swamps	1	
35	Blackwood Plateau	Valleys	0	
36	Margaret River Plateau	Jarrah Uplands	0	
37	Margaret River Plateau	Karri Uplands	0	
38	Margaret River Plateau	Jarrah Valleys	0	
39	Margaret River Plateau	Karri Valleys	0	
40	Lewin Naturalist Coast	Jarrah	0	
41	Lewin Naturalist Coast	Marri/Karri	0	
42	Lewin Naturalist Coast	Coast Heath	2	
43	Scott Coastal Plain	Uplands	1	
44	Scott Coastal Plain	Valleys / Swamps	1	
45	Redmond	Uplands	2	
46	Redmond	Valleys	1	
47	Unicup	Jarrah Uplands	2	
48	Unicup	Wandoo Uplands	3	
49	Unicup	Jarrah Valleys	2	
50	Unicup	Wandoo Valleys	3	
51	Unicup	Scrubland	3	
53	Darling Plateau	Wandoo Uplands South	3	
54	Darling Plateau	Wandoo Valleys South	3	

## Appendix 2b

Fauna Habitat ID	FDIS LAND SYSTEM	FDIS LANDSCAPE UNIT	SCORE	Origin
Rock Parrot				
1	Darling Plateau	Jarrah Uplands North	0	
2	Darling Plateau	Jarrah Uplands East	0	
3	Darling Plateau	Jarrah Uplands South	0	
4	Darling Plateau	Jarrah Uplands South East	0	
5	Darling Plateau	Karri Uplands	0	
6	Darling Plateau	Wandoo Uplands North	0	
7	Darling Plateau	Powder Bark Uplands	0	
8	Darling Plateau	Scarp	0	
9	Darling Plateau	Depression / Swamps North	0	
10	Darling Plateau	Depressions / Swamps South	0	
11	Darling Plateau	Depressions / Swamps East	0	
12	Darling Plateau	Depressions / Swamps South East	0	
13	Darling Plateau	Jarrah Valleys North	0	
14	Darling Plateau	Jarrah Valleys East	0	
15	Darling Plateau	Jarrah Valleys South	0	
16	Darling Plateau	Jarrah Valleys South East	0	
17	Darling Plateau	Karri Valleys	0	
18	Darling Plateau	Wandoo Valleys North	0	
19	Darling Plateau	Powder Bark Wandoo Valleys	0	
20	Darling Plateau	Granite Outcrops	0	
21	Various Systems	Esturies / Open Water	0	
22	Collie Plain	Uplands	0	
23	Collie Plain	Depressions / Swamps	0	
24	Dandaragan Plateau	Uplands	0	
25	Dandaragan Plateau	Valleys	0	
26	Swan Coastal Plain	Uplands	3	
27	Swan Coastal Plain	Valleys	3	
28	Southern Plains	Jarrah	0	
29	Southern Plains	Karri	0	
30	Southern Plains	Heath / Sedgeland	0	
31	South Coast Dunes	South Coast Dunes	3	
32	Blackwood Plateau	Jarrah Uplands	0	
33	Blackwood Plateau	Karri Uplands	0	
34	Blackwood Plateau	Depressions / Swamps	0	
35	Blackwood Plateau	Valleys	0	
36	Margaret River Plateau	Jarrah Uplands	0	
37	Margaret River Plateau	Karri Uplands	0	
38	Margaret River Plateau	Jarrah Valleys	0	
39	Margaret River Plateau	Karri Valleys	0	
40	Lewin Naturalist Coast	Jarrah	0	
41	Lewin Naturalist Coast	Marri/Karri	0	
42	Lewin Naturalist Coast	Coast Heath	3	
43	Scott Coastal Plain	Uplands	0	
44	Scott Coastal Plain	Valleys / Swamps	0	
45	Redmond	Uplands	0	
46	Redmond	Valleys	0	
47	Unicup	Jarrah Uplands	0	
48	Unicup	Wandoo Uplands	0	
49	Unicup	Jarrah Valleys	0	
50	Unicup	Wandoo Valleys	0	
51	Unicup	Scrubland	0	
53	Darling Plateau	Wandoo Uplands South	0	
54	Darling Plateau	Wandoo Valleys South	0	

## Appendix 2b

Fauna Habitat ID	FDIS LAND SYSTEM	FDIS LANDSCAPE UNIT	SCORE	Origin
Pallid Cuckoo				
1	Darling Plateau	Jarrah Uplands North	3	
2	Darling Plateau	Jarrah Uplands East	3	
3	Darling Plateau	Jarrah Uplands South	3	
4	Darling Plateau	Jarrah Uplands South East	3	
5	Darling Plateau	Karri Uplands	3	
6	Darling Plateau	Wandoo Uplands North	3	
7	Darling Plateau	Powder Bark Uplands	3	
8	Darling Plateau	Scarp	3	
9	Darling Plateau	Depression / Swamps North	3	
10	Darling Plateau	Depressions / Swamps South	3	
11	Darling Plateau	Depressions / Swamps East	3	
12	Darling Plateau	Depressions / Swamps South East	3	
13	Darling Plateau	Jarrah Valleys North	3	
14	Darling Plateau	Jarrah Valleys East	3	
15	Darling Plateau	Jarrah Valleys South	3	
16	Darling Plateau	Jarrah Valleys South East	3	
17	Darling Plateau	Karri Valleys	3	
18	Darling Plateau	Wandoo Valleys North	3	
19	Darling Plateau	Powder Bark Wandoo Valleys	3	
20	Darling Plateau	Granite Outcrops	3	
21	Various Systems	Esturies / Open Water	0	
22	Collie Plain	Uplands	3	
23	Collie Plain	Depressions / Swamps	3	
24	Dandaragan Plateau	Uplands	3	
25	Dandaragan Plateau	Valleys	3	
26	Swan Coastal Plain	Uplands	3	
27	Swan Coastal Plain	Valleys	3	
28	Southern Plains	Jarrah	3	
29	Southern Plains	Karri	3	
30	Southern Plains	Heath / Sedgeland	3	
31	South Coast Dunes	South Coast Dunes	3	
32	Blackwood Plateau	Jarrah Uplands	3	
33	Blackwood Plateau	Karri Uplands	3	
34	Blackwood Plateau	Depressions / Swamps	3	
35	Blackwood Plateau	Valleys	3	
36	Margaret River Plateau	Jarrah Uplands	3	
37	Margaret River Plateau	Karri Uplands	3	
38	Margaret River Plateau	Jarrah Valleys	3	
39	Margaret River Plateau	Karri Valleys	3	
40	Lewin Naturalist Coast	Jarrah	3	
41	Lewin Naturalist Coast	Marri/Karri	3	
42	Lewin Naturalist Coast	Coast Heath	3	
43	Scott Coastal Plain	Uplands	3	
44	Scott Coastal Plain	Valleys / Swamps	3	
45	Redmond	Uplands	3	
46	Redmond	Valleys	3	
47	Unicup	Jarrah Uplands	3	
48	Unicup	Wandoo Uplands	3	
49	Unicup	Jarrah Valleys	3	
50	Unicup	Wandoo Valleys	3	
51	Unicup	Scrubland	3	
53	Darling Plateau	Wandoo Uplands South	3	
54	Darling Plateau	Wandoo Valleys South	3	

## Appendix 2b

Fauna Habitat ID	FDIS LAND SYSTEM	FDIS LANDSCAPE UNIT	SCORE	Origin
Fan-tailed Cuckoo				
1	Darling Plateau	Jarrah Uplands North	3	
2	Darling Plateau	Jarrah Uplands East	3	
3	Darling Plateau	Jarrah Uplands South	3	
4	Darling Plateau	Jarrah Uplands South East	3	
5	Darling Plateau	Karri Uplands	3	
6	Darling Plateau	Wandoo Uplands North	3	
7	Darling Plateau	Powder Bark Uplands	3	
8	Darling Plateau	Scarp	3	
9	Darling Plateau	Depression / Swamps North	3	
10	Darling Plateau	Depressions / Swamps South	3	
11	Darling Plateau	Depressions / Swamps East	3	
12	Darling Plateau	Depressions / Swamps South East	3	
13	Darling Plateau	Jarrah Valleys North	3	
14	Darling Plateau	Jarrah Valleys East	3	
15	Darling Plateau	Jarrah Valleys South	3	
16	Darling Plateau	Jarrah Valleys South East	3	
17	Darling Plateau	Karri Valleys	3	
18	Darling Plateau	Wandoo Valleys North	3	
19	Darling Plateau	Powder Bark Wandoo Valleys	3	
20	Darling Plateau	Granite Outcrops	3	
21	Various Systems	Esturies / Open Water	0	
22	Collie Plain	Uplands	3	
23	Collie Plain	Depressions / Swamps	3	
24	Dandaragan Plateau	Uplands	3	
25	Dandaragan Plateau	Valleys	3	
26	Swan Coastal Plain	Uplands	3	
27	Swan Coastal Plain	Valleys	3	
28	Southern Plains	Jarrah	3	
29	Southern Plains	Karri	3	
30	Southern Plains	Heath / Sedgeland	3	
31	South Coast Dunes	South Coast Dunes	3	
32	Blackwood Plateau	Jarrah Uplands	3	
33	Blackwood Plateau	Karri Uplands	3	
34	Blackwood Plateau	Depressions / Swamps	3	
35	Blackwood Plateau	Valleys	3	
36	Margaret River Plateau	Jarrah Uplands	3	
37	Margaret River Plateau	Karri Uplands	3	
38	Margaret River Plateau	Jarrah Valleys	3	
39	Margaret River Plateau	Karri Valleys	3	
40	Lewin Naturalist Coast	Jarrah	3	
41	Lewin Naturalist Coast	Marri/Karri	3	
42	Lewin Naturalist Coast	Coast Heath	3	
43	Scott Coastal Plain	Uplands	3	
44	Scott Coastal Plain	Valleys / Swamps	3	
45	Redmond	Uplands	3	
46	Redmond	Valleys	3	
47	Unicup	Jarrah Uplands	3	
48	Unicup	Wandoo Uplands	3	
49	Unicup	Jarrah Valleys	3	
50	Unicup	Wandoo Valleys	3	
51	Unicup	Scrubland	3	
53	Darling Plateau	Wandoo Uplands South	3	
54	Darling Plateau	Wandoo Valleys South	3	

## Appendix 2b

Fauna Habitat ID	FDIS LAND SYSTEM	FDIS LANDSCAPE UNIT	SCORE	Origin
Horsefield's Bronze Cuckoo				
1	Darling Plateau	Jarrah Uplands North	3	
2	Darling Plateau	Jarrah Uplands East	3	
3	Darling Plateau	Jarrah Uplands South	2	
4	Darling Plateau	Jarrah Uplands South East	3	
5	Darling Plateau	Karri Uplands	2	
6	Darling Plateau	Wandoo Uplands North	3	
7	Darling Plateau	Powder Bark Uplands	3	
8	Darling Plateau	Scarp	3	
9	Darling Plateau	Depression / Swamps North	3	
10	Darling Plateau	Depressions / Swamps South	2	
11	Darling Plateau	Depressions / Swamps East	3	
12	Darling Plateau	Depressions / Swamps South East	2	
13	Darling Plateau	Jarrah Valleys North	3	
14	Darling Plateau	Jarrah Valleys East	3	
15	Darling Plateau	Jarrah Valleys South	2	
16	Darling Plateau	Jarrah Valleys South East	3	
17	Darling Plateau	Karri Valleys	2	
18	Darling Plateau	Wandoo Valleys North	3	
19	Darling Plateau	Powder Bark Wandoo Valleys	3	
20	Darling Plateau	Granite Outcrops	2	
21	Various Systems	Esturies / Open Water	0	
22	Collie Plain	Uplands	3	
23	Collie Plain	Depressions / Swamps	3	
24	Dandaragan Plateau	Uplands	3	
25	Dandaragan Plateau	Valleys	3	
26	Swan Coastal Plain	Uplands	3	
27	Swan Coastal Plain	Valleys	3	
28	Southern Plains	Jarrah	2	
29	Southern Plains	Karri	2	
30	Southern Plains	Heath / Sedgeland	2	
31	South Coast Dunes	South Coast Dunes	3	
32	Blackwood Plateau	Jarrah Uplands	2	
33	Blackwood Plateau	Karri Uplands	2	
34	Blackwood Plateau	Depressions / Swamps	2	
35	Blackwood Plateau	Valleys	2	
36	Margaret River Plateau	Jarrah Uplands	2	
37	Margaret River Plateau	Karri Uplands	2	
38	Margaret River Plateau	Jarrah Valleys	2	
39	Margaret River Plateau	Karri Valleys	2	
40	Lewin Naturalist Coast	Jarrah	2	
41	Lewin Naturalist Coast	Marri/Karri	2	
42	Lewin Naturalist Coast	Coast Heath	3	
43	Scott Coastal Plain	Uplands	2	
44	Scott Coastal Plain	Valleys / Swamps	2	
45	Redmond	Uplands	3	
46	Redmond	Valleys	2	
47	Unicup	Jarrah Uplands	3	
48	Unicup	Wandoo Uplands	3	
49	Unicup	Jarrah Valleys	3	
50	Unicup	Wandoo Valleys	3	
51	Unicup	Scrubland	3	
53	Darling Plateau	Wandoo Uplands South	3	
54	Darling Plateau	Wandoo Valleys South	3	

## Appendix 2b

Fauna Habitat ID	FDIS LAND SYSTEM	FDIS LANDSCAPE UNIT	SCORE	Origin
Shining Bronze Cuckoo				
1	Darling Plateau	Jarrah Uplands North	3	
2	Darling Plateau	Jarrah Uplands East	3	
3	Darling Plateau	Jarrah Uplands South	3	
4	Darling Plateau	Jarrah Uplands South East	3	
5	Darling Plateau	Karri Uplands	3	
6	Darling Plateau	Wandoo Uplands North	3	
7	Darling Plateau	Powder Bark Uplands	3	
8	Darling Plateau	Scarp	3	
9	Darling Plateau	Depression / Swamps North	3	
10	Darling Plateau	Depressions / Swamps South	3	
11	Darling Plateau	Depressions / Swamps East	3	
12	Darling Plateau	Depressions / Swamps South East	3	
13	Darling Plateau	Jarrah Valleys North	3	
14	Darling Plateau	Jarrah Valleys East	3	
15	Darling Plateau	Jarrah Valleys South	3	
16	Darling Plateau	Jarrah Valleys South East	3	
17	Darling Plateau	Karri Valleys	3	
18	Darling Plateau	Wandoo Valleys North	3	
19	Darling Plateau	Powder Bark Wandoo Valleys	3	
20	Darling Plateau	Granite Outcrops	3	
21	Various Systems	Esturies / Open Water	0	
22	Collie Plain	Uplands	3	
23	Collie Plain	Depressions / Swamps	3	
24	Dandaragan Plateau	Uplands	3	
25	Dandaragan Plateau	Valleys	3	
26	Swan Coastal Plain	Uplands	3	
27	Swan Coastal Plain	Valleys	3	
28	Southern Plains	Jarrah	3	
29	Southern Plains	Karri	3	
30	Southern Plains	Heath / Sedgeland	3	
31	South Coast Dunes	South Coast Dunes	3	
32	Blackwood Plateau	Jarrah Uplands	3	
33	Blackwood Plateau	Karri Uplands	3	
34	Blackwood Plateau	Depressions / Swamps	3	
35	Blackwood Plateau	Valleys	3	
36	Margaret River Plateau	Jarrah Uplands	3	
37	Margaret River Plateau	Karri Uplands	3	
38	Margaret River Plateau	Jarrah Valleys	3	
39	Margaret River Plateau	Karri Valleys	3	
40	Lewin Naturalist Coast	Jarrah	3	
41	Lewin Naturalist Coast	Marri/Karri	3	
42	Lewin Naturalist Coast	Coast Heath	3	
43	Scott Coastal Plain	Uplands	3	
44	Scott Coastal Plain	Valleys / Swamps	3	
45	Redmond	Uplands	3	
46	Redmond	Valleys	3	
47	Unicup	Jarrah Uplands	3	
48	Unicup	Wandoo Uplands	3	
49	Unicup	Jarrah Valleys	3	
50	Unicup	Wandoo Valleys	3	
51	Unicup	Scrubland	3	
53	Darling Plateau	Wandoo Uplands South	3	
54	Darling Plateau	Wandoo Valleys South	3	



## Appendix 2b

Fauna Habitat ID	FDIS LAND SYSTEM	FDIS LANDSCAPE UNIT	SCORE	Origin
Southern Boobook				
1	Darling Plateau	Jarrah Uplands North	2	
2	Darling Plateau	Jarrah Uplands East	3	
3	Darling Plateau	Jarrah Uplands South	2	
4	Darling Plateau	Jarrah Uplands South East	3	
5	Darling Plateau	Karri Uplands	1	
6	Darling Plateau	Wandoo Uplands North	3	
7	Darling Plateau	Powder Bark Uplands	3	
8	Darling Plateau	Scarp	2	
9	Darling Plateau	Depression / Swamps North	3	
10	Darling Plateau	Depressions / Swamps South	2	
11	Darling Plateau	Depressions / Swamps East	2	
12	Darling Plateau	Depressions / Swamps South East	2	
13	Darling Plateau	Jarrah Valleys North	2	
14	Darling Plateau	Jarrah Valleys East	3	
15	Darling Plateau	Jarrah Valleys South	2	
16	Darling Plateau	Jarrah Valleys South East	3	
17	Darling Plateau	Karri Valleys	1	
18	Darling Plateau	Wandoo Valleys North	3	
19	Darling Plateau	Powder Bark Wandoo Valleys	3	
20	Darling Plateau	Granite Outcrops	3	
21	Various Systems	Esturies / Open Water	0	
22	Collie Plain	Uplands	3	
23	Collie Plain	Depressions / Swamps	3	
24	Dandaragan Plateau	Uplands	3	
25	Dandaragan Plateau	Valleys	3	
26	Swan Coastal Plain	Uplands	3	
27	Swan Coastal Plain	Valleys	3	
28	Southern Plains	Jarrah	3	
29	Southern Plains	Karri	3	
30	Southern Plains	Heath / Sedgeland	1	
31	South Coast Dunes	South Coast Dunes	3	
32	Blackwood Plateau	Jarrah Uplands	2	
33	Blackwood Plateau	Karri Uplands	1	
34	Blackwood Plateau	Depressions / Swamps	3	
35	Blackwood Plateau	Valleys	2	
36	Margaret River Plateau	Jarrah Uplands	2	
37	Margaret River Plateau	Karri Uplands	1	
38	Margaret River Plateau	Jarrah Valleys	2	
39	Margaret River Plateau	Karri Valleys	1	
40	Lewin Naturalist Coast	Jarrah	2	
41	Lewin Naturalist Coast	Marri/Karri	1	
42	Lewin Naturalist Coast	Coast Heath	3	
43	Scott Coastal Plain	Uplands	3	
44	Scott Coastal Plain	Valleys / Swamps	3	
45	Redmond	Uplands	3	
46	Redmond	Valleys	3	
47	Unicup	Jarrah Uplands	3	
48	Unicup	Wandoo Uplands	3	
49	Unicup	Jarrah Valleys	3	
50	Unicup	Wandoo Valleys	3	
51	Unicup	Scrubland	3	
53	Darling Plateau	Wandoo Uplands South	3	
54	Darling Plateau	Wandoo Valleys South	3	

## Appendix 2b

Fauna Habitat ID	FDIS LAND SYSTEM	FDIS LANDSCAPE UNIT	SCORE	Origin
Barn Owl				
1	Darling Plateau	Jarrah Uplands North	1	
2	Darling Plateau	Jarrah Uplands East	2	
3	Darling Plateau	Jarrah Uplands South	1	
4	Darling Plateau	Jarrah Uplands South East	3	
5	Darling Plateau	Karri Uplands	1	
6	Darling Plateau	Wandoo Uplands North	3	
7	Darling Plateau	Powder Bark Uplands	3	
8	Darling Plateau	Scarp	1	
9	Darling Plateau	Depression / Swamps North	2	
10	Darling Plateau	Depressions / Swamps South	2	
11	Darling Plateau	Depressions / Swamps East	2	
12	Darling Plateau	Depressions / Swamps South East	2	
13	Darling Plateau	Jarrah Valleys North	1	
14	Darling Plateau	Jarrah Valleys East	2	
15	Darling Plateau	Jarrah Valleys South	1	
16	Darling Plateau	Jarrah Valleys South East	3	
17	Darling Plateau	Karri Valleys	1	
18	Darling Plateau	Wandoo Valleys North	3	
19	Darling Plateau	Powder Bark Wandoo Valleys	3	
20	Darling Plateau	Granite Outcrops	3	
21	Various Systems	Esturies / Open Water	0	
22	Collie Plain	Uplands	2	
23	Collie Plain	Depressions / Swamps	2	
24	Dandaragan Plateau	Uplands	3	
25	Dandaragan Plateau	Valleys	3	
26	Swan Coastal Plain	Uplands	3	
27	Swan Coastal Plain	Valleys	3	
28	Southern Plains	Jarrah	2	
29	Southern Plains	Karri	1	
30	Southern Plains	Heath / Sedgeland	2	
31	South Coast Dunes	South Coast Dunes	2	
32	Blackwood Plateau	Jarrah Uplands	1	
33	Blackwood Plateau	Karri Uplands	1	
34	Blackwood Plateau	Depressions / Swamps	2	
35	Blackwood Plateau	Valleys	1	
36	Margaret River Plateau	Jarrah Uplands	1	
37	Margaret River Plateau	Karri Uplands	1	
38	Margaret River Plateau	Jarrah Valleys	1	
39	Margaret River Plateau	Karri Valleys	1	
40	Lewin Naturalist Coast	Jarrah	1	
41	Lewin Naturalist Coast	Marri/Karri	1	
42	Lewin Naturalist Coast	Coast Heath	1	
43	Scott Coastal Plain	Uplands	2	
44	Scott Coastal Plain	Valleys / Swamps	2	
45	Redmond	Uplands	2	
46	Redmond	Valleys	2	
47	Unicup	Jarrah Uplands	2	
48	Unicup	Wandoo Uplands	3	
49	Unicup	Jarrah Valleys	2	
50	Unicup	Wandoo Valleys	3	
51	Unicup	Scrubland	3	
53	Darling Plateau	Wandoo Uplands South	3	
54	Darling Plateau	Wandoo Valleys South	3	

## Appendix 2b

Fauna Habitat ID	FDIS LAND SYSTEM	FDIS LANDSCAPE UNIT	SCORE	Origin
Masked Owl				
1	Darling Plateau	Jarrah Uplands North	1	
2	Darling Plateau	Jarrah Uplands East	1	
3	Darling Plateau	Jarrah Uplands South	1	
4	Darling Plateau	Jarrah Uplands South East	1	
5	Darling Plateau	Karri Uplands	2	
6	Darling Plateau	Wandoo Uplands North	0	
7	Darling Plateau	Powder Bark Uplands	1	
8	Darling Plateau	Scarp	1	
9	Darling Plateau	Depression / Swamps North	1	
10	Darling Plateau	Depressions / Swamps South	1	
11	Darling Plateau	Depressions / Swamps East	1	
12	Darling Plateau	Depressions / Swamps South East	1	
13	Darling Plateau	Jarrah Valleys North	1	
14	Darling Plateau	Jarrah Valleys East	1	
15	Darling Plateau	Jarrah Valleys South	1	
16	Darling Plateau	Jarrah Valleys South East	1	
17	Darling Plateau	Karri Valleys	1	
18	Darling Plateau	Wandoo Valleys North	0	
19	Darling Plateau	Powder Bark Wandoo Valleys	1	
20	Darling Plateau	Granite Outcrops	1	
21	Various Systems	Esturies / Open Water	0	
22	Collie Plain	Uplands	1	
23	Collie Plain	Depressions / Swamps	1	
24	Dandaragan Plateau	Uplands	1	
25	Dandaragan Plateau	Valleys	1	
26	Swan Coastal Plain	Uplands	1	
27	Swan Coastal Plain	Valleys	1	
28	Southern Plains	Jarrah	1	
29	Southern Plains	Karri	1	
30	Southern Plains	Heath / Sedgeland	1	
31	South Coast Dunes	South Coast Dunes	1	
32	Blackwood Plateau	Jarrah Uplands	1	
33	Blackwood Plateau	Karri Uplands	1	
34	Blackwood Plateau	Depressions / Swamps	1	
35	Blackwood Plateau	Valleys	1	
36	Margaret River Plateau	Jarrah Uplands	1	
37	Margaret River Plateau	Karri Uplands	1	
38	Margaret River Plateau	Jarrah Valleys	1	
39	Margaret River Plateau	Karri Valleys	1	
40	Lewin Naturalist Coast	Jarrah	1	
41	Lewin Naturalist Coast	Marri/Karri	1	
42	Lewin Naturalist Coast	Coast Heath	1	
43	Scott Coastal Plain	Uplands	1	
44	Scott Coastal Plain	Valleys / Swamps	1	
45	Redmond	Uplands	1	
46	Redmond	Valleys	1	
47	Unicup	Jarrah Uplands	1	
48	Unicup	Wandoo Uplands	1	
49	Unicup	Jarrah Valleys	1	
50	Unicup	Wandoo Valleys	1	
51	Unicup	Scrubland	1	
53	Darling Plateau	Wandoo Uplands South	1	
54	Darling Plateau	Wandoo Valleys South	1	

## Appendix 2b

Fauna Habitat ID	FDIS LAND SYSTEM	FDIS LANDSCAPE UNIT	SCORE	Origin
Barking Owl				
1	Darling Plateau	Jarrah Uplands North	1	
2	Darling Plateau	Jarrah Uplands East	1	
3	Darling Plateau	Jarrah Uplands South	1	
4	Darling Plateau	Jarrah Uplands South East	1	
5	Darling Plateau	Karri Uplands	0	
6	Darling Plateau	Wandoo Uplands North	0	
7	Darling Plateau	Powder Bark Uplands	1	
8	Darling Plateau	Scarp	1	
9	Darling Plateau	Depression / Swamps North	1	
10	Darling Plateau	Depressions / Swamps South	1	
11	Darling Plateau	Depressions / Swamps East	1	
12	Darling Plateau	Depressions / Swamps South East	1	
13	Darling Plateau	Jarrah Valleys North	1	
14	Darling Plateau	Jarrah Valleys East	1	
15	Darling Plateau	Jarrah Valleys South	1	
16	Darling Plateau	Jarrah Valleys South East	1	
17	Darling Plateau	Karri Valleys	0	
18	Darling Plateau	Wandoo Valleys North	0	
19	Darling Plateau	Powder Bark Wandoo Valleys	1	
20	Darling Plateau	Granite Outcrops	1	
21	Various Systems	Esturies / Open Water	0	
22	Collie Plain	Uplands	1	
23	Collie Plain	Depressions / Swamps	1	
24	Dandaragan Plateau	Uplands	1	
25	Dandaragan Plateau	Valleys	1	
26	Swan Coastal Plain	Uplands	1	
27	Swan Coastal Plain	Valleys	1	
28	Southern Plains	Jarrah	1	
29	Southern Plains	Karri	0	
30	Southern Plains	Heath / Sedgeland	0	
31	South Coast Dunes	South Coast Dunes	0	
32	Blackwood Plateau	Jarrah Uplands	1	
33	Blackwood Plateau	Karri Uplands	0	
34	Blackwood Plateau	Depressions / Swamps	1	
35	Blackwood Plateau	Valleys	1	
36	Margaret River Plateau	Jarrah Uplands	1	
37	Margaret River Plateau	Karri Uplands	0	
38	Margaret River Plateau	Jarrah Valleys	1	
39	Margaret River Plateau	Karri Valleys	0	
40	Lewin Naturalist Coast	Jarrah	1	
41	Lewin Naturalist Coast	Marri/Karri	0	
42	Lewin Naturalist Coast	Coast Heath	1	
43	Scott Coastal Plain	Uplands	1	
44	Scott Coastal Plain	Valleys / Swamps	1	
45	Redmond	Uplands	1	
46	Redmond	Valleys	1	
47	Unicup	Jarrah Uplands	1	
48	Unicup	Wandoo Uplands	1	
49	Unicup	Jarrah Valleys	1	
50	Unicup	Wandoo Valleys	1	
51	Unicup	Scrubland	1	
53	Darling Plateau	Wandoo Uplands South	1	
54	Darling Plateau	Wandoo Valleys South	1	

## Appendix 2b

Fauna Habitat ID	FDIS LAND SYSTEM	FDIS LANDSCAPE UNIT	SCORE	Origin
Tawny Frogmouth				
1	Darling Plateau	Jarrah Uplands North	3	
2	Darling Plateau	Jarrah Uplands East	3	
3	Darling Plateau	Jarrah Uplands South	3	
4	Darling Plateau	Jarrah Uplands South East	3	
5	Darling Plateau	Karri Uplands	3	
6	Darling Plateau	Wandoo Uplands North	3	
7	Darling Plateau	Powder Bark Uplands	3	
8	Darling Plateau	Scarp	3	
9	Darling Plateau	Depression / Swamps North	3	
10	Darling Plateau	Depressions / Swamps South	3	
11	Darling Plateau	Depressions / Swamps East	3	
12	Darling Plateau	Depressions / Swamps South East	3	
13	Darling Plateau	Jarrah Valleys North	3	
14	Darling Plateau	Jarrah Valleys East	3	
15	Darling Plateau	Jarrah Valleys South	3	
16	Darling Plateau	Jarrah Valleys South East	3	
17	Darling Plateau	Karri Valleys	3	
18	Darling Plateau	Wandoo Valleys North	3	
19	Darling Plateau	Powder Bark Wandoo Valleys	3	
20	Darling Plateau	Granite Outcrops	3	
21	Various Systems	Esturies / Open Water	0	
22	Collie Plain	Uplands	3	
23	Collie Plain	Depressions / Swamps	3	
24	Dandaragan Plateau	Uplands	3	
25	Dandaragan Plateau	Valleys	3	
26	Swan Coastal Plain	Uplands	3	
27	Swan Coastal Plain	Valleys	3	
28	Southern Plains	Jarrah	3	
29	Southern Plains	Karri	3	
30	Southern Plains	Heath / Sedgeland	3	
31	South Coast Dunes	South Coast Dunes	3	
32	Blackwood Plateau	Jarrah Uplands	3	
33	Blackwood Plateau	Karri Uplands	3	
34	Blackwood Plateau	Depressions / Swamps	3	
35	Blackwood Plateau	Valleys	3	
36	Margaret River Plateau	Jarrah Uplands	3	
37	Margaret River Plateau	Karri Uplands	3	
38	Margaret River Plateau	Jarrah Valleys	3	
39	Margaret River Plateau	Karri Valleys	3	
40	Lewin Naturalist Coast	Jarrah	3	
41	Lewin Naturalist Coast	Marri/Karri	3	
42	Lewin Naturalist Coast	Coast Heath	3	
43	Scott Coastal Plain	Uplands	3	
44	Scott Coastal Plain	Valleys / Swamps	3	
45	Redmond	Uplands	3	
46	Redmond	Valleys	3	
47	Unicup	Jarrah Uplands	3	
48	Unicup	Wandoo Uplands	3	
49	Unicup	Jarrah Valleys	3	
50	Unicup	Wandoo Valleys	3	
51	Unicup	Scrubland	3	
53	Darling Plateau	Wandoo Uplands South	3	
54	Darling Plateau	Wandoo Valleys South	3	

## Appendix 2b

Fauna Habitat ID	FDIS LAND SYSTEM	FDIS LANDSCAPE UNIT	SCORE	Origin
Australian Owlet Nightjar				
1	Darling Plateau	Jarrah Uplands North	3	
2	Darling Plateau	Jarrah Uplands East	3	
3	Darling Plateau	Jarrah Uplands South	3	
4	Darling Plateau	Jarrah Uplands South East	3	
5	Darling Plateau	Karri Uplands	3	
6	Darling Plateau	Wandoo Uplands North	3	
7	Darling Plateau	Powder Bark Uplands	3	
8	Darling Plateau	Scarp	3	
9	Darling Plateau	Depression / Swamps North	3	
10	Darling Plateau	Depressions / Swamps South	3	
11	Darling Plateau	Depressions / Swamps East	3	
12	Darling Plateau	Depressions / Swamps South East	3	
13	Darling Plateau	Jarrah Valleys North	3	
14	Darling Plateau	Jarrah Valleys East	3	
15	Darling Plateau	Jarrah Valleys South	3	
16	Darling Plateau	Jarrah Valleys South East	3	
17	Darling Plateau	Karri Valleys	3	
18	Darling Plateau	Wandoo Valleys North	3	
19	Darling Plateau	Powder Bark Wandoo Valleys	3	
20	Darling Plateau	Granite Outcrops	3	
21	Various Systems	Esturies / Open Water	0	
22	Collie Plain	Uplands	3	
23	Collie Plain	Depressions / Swamps	3	
24	Dandaragan Plateau	Uplands	3	
25	Dandaragan Plateau	Valleys	3	
26	Swan Coastal Plain	Uplands	2	
27	Swan Coastal Plain	Valleys	2	
28	Southern Plains	Jarrah	3	
29	Southern Plains	Karri	3	
30	Southern Plains	Heath / Sedgeland	3	
31	South Coast Dunes	South Coast Dunes	2	
32	Blackwood Plateau	Jarrah Uplands	3	
33	Blackwood Plateau	Karri Uplands	3	
34	Blackwood Plateau	Depressions / Swamps	3	
35	Blackwood Plateau	Valleys	3	
36	Margaret River Plateau	Jarrah Uplands	3	
37	Margaret River Plateau	Karri Uplands	3	
38	Margaret River Plateau	Jarrah Valleys	3	
39	Margaret River Plateau	Karri Valleys	3	
40	Lewin Naturalist Coast	Jarrah	3	
41	Lewin Naturalist Coast	Marri/Karri	3	
42	Lewin Naturalist Coast	Coast Heath	1	
43	Scott Coastal Plain	Uplands	3	
44	Scott Coastal Plain	Valleys / Swamps	3	
45	Redmond	Uplands	3	
46	Redmond	Valleys	3	
47	Unicup	Jarrah Uplands	3	
48	Unicup	Wandoo Uplands	3	
49	Unicup	Jarrah Valleys	3	
50	Unicup	Wandoo Valleys	3	
51	Unicup	Scrubland	3	
53	Darling Plateau	Wandoo Uplands South	3	
54	Darling Plateau	Wandoo Valleys South	3	

## Appendix 2b

Fauna Habitat ID	FDIS LAND SYSTEM	FDIS LANDSCAPE UNIT	SCORE	Origin
Spotted Nightjar				
1	Darling Plateau	Jarrah Uplands North	0	
2	Darling Plateau	Jarrah Uplands East	0	
3	Darling Plateau	Jarrah Uplands South	0	
4	Darling Plateau	Jarrah Uplands South East	1	
5	Darling Plateau	Karri Uplands	0	
6	Darling Plateau	Wandoo Uplands North	1	
7	Darling Plateau	Powder Bark Uplands	1	
8	Darling Plateau	Scarp	0	
9	Darling Plateau	Depression / Swamps North	0	
10	Darling Plateau	Depressions / Swamps South	1	
11	Darling Plateau	Depressions / Swamps East	1	
12	Darling Plateau	Depressions / Swamps South East	1	
13	Darling Plateau	Jarrah Valleys North	0	
14	Darling Plateau	Jarrah Valleys East	0	
15	Darling Plateau	Jarrah Valleys South	0	
16	Darling Plateau	Jarrah Valleys South East	1	
17	Darling Plateau	Karri Valleys	0	
18	Darling Plateau	Wandoo Valleys North	1	
19	Darling Plateau	Powder Bark Wandoo Valleys	1	
20	Darling Plateau	Granite Outcrops	0	
21	Various Systems	Esturies / Open Water	0	
22	Collie Plain	Uplands	0	
23	Collie Plain	Depressions / Swamps	0	
24	Dandaragan Plateau	Uplands	1	
25	Dandaragan Plateau	Valleys	1	
26	Swan Coastal Plain	Uplands	1	
27	Swan Coastal Plain	Valleys	1	
28	Southern Plains	Jarrah	0	
29	Southern Plains	Karri	0	
30	Southern Plains	Heath / Sedgeland	0	
31	South Coast Dunes	South Coast Dunes	0	
32	Blackwood Plateau	Jarrah Uplands	0	
33	Blackwood Plateau	Karri Uplands	0	
34	Blackwood Plateau	Depressions / Swamps	0	
35	Blackwood Plateau	Valleys	0	
36	Margaret River Plateau	Jarrah Uplands	0	
37	Margaret River Plateau	Karri Uplands	0	
38	Margaret River Plateau	Jarrah Valleys	0	
39	Margaret River Plateau	Karri Valleys	0	
40	Lewin Naturalist Coast	Jarrah	0	
41	Lewin Naturalist Coast	Marri/Karri	0	
42	Lewin Naturalist Coast	Coast Heath	0	
43	Scott Coastal Plain	Uplands	0	
44	Scott Coastal Plain	Valleys / Swamps	0	
45	Redmond	Uplands	0	
46	Redmond	Valleys	0	
47	Unicup	Jarrah Uplands	0	
48	Unicup	Wandoo Uplands	1	
49	Unicup	Jarrah Valleys	0	
50	Unicup	Wandoo Valleys	1	
51	Unicup	Scrubland	1	
53	Darling Plateau	Wandoo Uplands South	1	
54	Darling Plateau	Wandoo Valleys South	1	

## Appendix 2b

Fauna Habitat ID	FDIS LAND SYSTEM	FDIS LANDSCAPE UNIT	SCORE	Origin
Fork-tailed Swift				
1	Darling Plateau	Jarrah Uplands North	0	
2	Darling Plateau	Jarrah Uplands East	0	
3	Darling Plateau	Jarrah Uplands South	0	
4	Darling Plateau	Jarrah Uplands South East	0	
5	Darling Plateau	Karri Uplands	0	
6	Darling Plateau	Wandoo Uplands North	0	
7	Darling Plateau	Powder Bark Uplands	0	
8	Darling Plateau	Scarp	0	
9	Darling Plateau	Depression / Swamps North	0	
10	Darling Plateau	Depressions / Swamps South	0	
11	Darling Plateau	Depressions / Swamps East	0	
12	Darling Plateau	Depressions / Swamps South East	0	
13	Darling Plateau	Jarrah Valleys North	0	
14	Darling Plateau	Jarrah Valleys East	0	
15	Darling Plateau	Jarrah Valleys South	0	
16	Darling Plateau	Jarrah Valleys South East	0	
17	Darling Plateau	Karri Valleys	0	
18	Darling Plateau	Wandoo Valleys North	0	
19	Darling Plateau	Powder Bark Wandoo Valleys	0	
20	Darling Plateau	Granite Outcrops	0	
21	Various Systems	Esturies / Open Water	0	
22	Collie Plain	Uplands	0	
23	Collie Plain	Depressions / Swamps	0	
24	Dandaragan Plateau	Uplands	0	
25	Dandaragan Plateau	Valleys	0	
26	Swan Coastal Plain	Uplands	1	
27	Swan Coastal Plain	Valleys	1	
28	Southern Plains	Jarrah	0	
29	Southern Plains	Karri	0	
30	Southern Plains	Heath / Sedgeland	0	
31	South Coast Dunes	South Coast Dunes	0	
32	Blackwood Plateau	Jarrah Uplands	0	
33	Blackwood Plateau	Karri Uplands	0	
34	Blackwood Plateau	Depressions / Swamps	0	
35	Blackwood Plateau	Valleys	0	
36	Margaret River Plateau	Jarrah Uplands	0	
37	Margaret River Plateau	Karri Uplands	0	
38	Margaret River Plateau	Jarrah Valleys	0	
39	Margaret River Plateau	Karri Valleys	0	
40	Lewin Naturalist Coast	Jarrah	0	
41	Lewin Naturalist Coast	Marri/Karri	0	
42	Lewin Naturalist Coast	Coast Heath	0	
43	Scott Coastal Plain	Uplands	0	
44	Scott Coastal Plain	Valleys / Swamps	0	
45	Redmond	Uplands	0	
46	Redmond	Valleys	0	
47	Unicup	Jarrah Uplands	0	
48	Unicup	Wandoo Uplands	0	
49	Unicup	Jarrah Valleys	0	
50	Unicup	Wandoo Valleys	0	
51	Unicup	Scrubland	0	
53	Darling Plateau	Wandoo Uplands South	0	
54	Darling Plateau	Wandoo Valleys South	0	



## Appendix 2b

Fauna Habitat ID	FDIS LAND SYSTEM	FDIS LANDSCAPE UNIT	SCORE	Origin
Laughing Kookaburra *				
1	Darling Plateau	Jarrah Uplands North	3	
2	Darling Plateau	Jarrah Uplands East	3	
3	Darling Plateau	Jarrah Uplands South	3	
4	Darling Plateau	Jarrah Uplands South East	3	
5	Darling Plateau	Karri Uplands	3	
6	Darling Plateau	Wandoo Uplands North	3	
7	Darling Plateau	Powder Bark Uplands	3	
8	Darling Plateau	Scarp	3	
9	Darling Plateau	Depression / Swamps North	3	
10	Darling Plateau	Depressions / Swamps South	3	
11	Darling Plateau	Depressions / Swamps East	3	
12	Darling Plateau	Depressions / Swamps South East	3	
13	Darling Plateau	Jarrah Valleys North	3	
14	Darling Plateau	Jarrah Valleys East	3	
15	Darling Plateau	Jarrah Valleys South	3	
16	Darling Plateau	Jarrah Valleys South East	3	
17	Darling Plateau	Karri Valleys	3	
18	Darling Plateau	Wandoo Valleys North	3	
19	Darling Plateau	Powder Bark Wandoo Valleys	3	
20	Darling Plateau	Granite Outcrops	3	
21	Various Systems	Esturies / Open Water	0	
22	Collie Plain	Uplands	3	
23	Collie Plain	Depressions / Swamps	3	
24	Dandaragan Plateau	Uplands	3	
25	Dandaragan Plateau	Valleys	3	
26	Swan Coastal Plain	Uplands	3	
27	Swan Coastal Plain	Valleys	3	
28	Southern Plains	Jarrah	3	
29	Southern Plains	Karri	3	
30	Southern Plains	Heath / Sedgeland	3	
31	South Coast Dunes	South Coast Dunes	3	
32	Blackwood Plateau	Jarrah Uplands	3	
33	Blackwood Plateau	Karri Uplands	3	
34	Blackwood Plateau	Depressions / Swamps	3	
35	Blackwood Plateau	Valleys	3	
36	Margaret River Plateau	Jarrah Uplands	3	
37	Margaret River Plateau	Karri Uplands	3	
38	Margaret River Plateau	Jarrah Valleys	3	
39	Margaret River Plateau	Karri Valleys	3	
40	Lewin Naturalist Coast	Jarrah	3	
41	Lewin Naturalist Coast	Marri/Karri	3	
42	Lewin Naturalist Coast	Coast Heath	3	
43	Scott Coastal Plain	Uplands	3	
44	Scott Coastal Plain	Valleys / Swamps	3	
45	Redmond	Uplands	3	
46	Redmond	Valleys	3	
47	Unicup	Jarrah Uplands	3	
48	Unicup	Wandoo Uplands	3	
49	Unicup	Jarrah Valleys	3	
50	Unicup	Wandoo Valleys	3	
51	Unicup	Scrubland	3	
53	Darling Plateau	Wandoo Uplands South	3	
54	Darling Plateau	Wandoo Valleys South	3	

## Appendix 2b

Fauna Habitat ID	FDIS LAND SYSTEM	FDIS LANDSCAPE UNIT	SCORE	Origin
Sacred Kingfisher				
1	Darling Plateau	Jarrah Uplands North	0	
2	Darling Plateau	Jarrah Uplands East	0	
3	Darling Plateau	Jarrah Uplands South	0	
4	Darling Plateau	Jarrah Uplands South East	0	
5	Darling Plateau	Karri Uplands	0	
6	Darling Plateau	Wandoo Uplands North	0	
7	Darling Plateau	Powder Bark Uplands	0	
8	Darling Plateau	Scarp	0	
9	Darling Plateau	Depression / Swamps North	2	
10	Darling Plateau	Depressions / Swamps South	0	
11	Darling Plateau	Depressions / Swamps East	0	
12	Darling Plateau	Depressions / Swamps South East	2	
13	Darling Plateau	Jarrah Valleys North	2	
14	Darling Plateau	Jarrah Valleys East	2	
15	Darling Plateau	Jarrah Valleys South	1	
16	Darling Plateau	Jarrah Valleys South East	2	
17	Darling Plateau	Karri Valleys	0	
18	Darling Plateau	Wandoo Valleys North	0	
19	Darling Plateau	Powder Bark Wandoo Valleys	0	
20	Darling Plateau	Granite Outcrops	0	
21	Various Systems	Esturies / Open Water	2	
22	Collie Plain	Uplands	0	
23	Collie Plain	Depressions / Swamps	1	
24	Dandaragan Plateau	Uplands	0	
25	Dandaragan Plateau	Valleys	2	
26	Swan Coastal Plain	Uplands	0	
27	Swan Coastal Plain	Valleys	2	
28	Southern Plains	Jarrah	1	
29	Southern Plains	Karri	0	
30	Southern Plains	Heath / Sedgeland	2	
31	South Coast Dunes	South Coast Dunes	0	
32	Blackwood Plateau	Jarrah Uplands	0	
33	Blackwood Plateau	Karri Uplands	0	
34	Blackwood Plateau	Depressions / Swamps	1	
35	Blackwood Plateau	Valleys	1	
36	Margaret River Plateau	Jarrah Uplands	0	
37	Margaret River Plateau	Karri Uplands	0	
38	Margaret River Plateau	Jarrah Valleys	1	
39	Margaret River Plateau	Karri Valleys	0	
40	Lewin Naturalist Coast	Jarrah	0	
41	Lewin Naturalist Coast	Marri/Karri	0	
42	Lewin Naturalist Coast	Coast Heath	1	
43	Scott Coastal Plain	Uplands	0	
44	Scott Coastal Plain	Valleys / Swamps	2	
45	Redmond	Uplands	0	
46	Redmond	Valleys	2	
47	Unicup	Jarrah Uplands	0	
48	Unicup	Wandoo Uplands	0	
49	Unicup	Jarrah Valleys	2	
50	Unicup	Wandoo Valleys	0	
51	Unicup	Scrubland	0	
53	Darling Plateau	Wandoo Uplands South	0	
54	Darling Plateau	Wandoo Valleys South	0	

## Appendix 2b

Fauna Habitat ID	FDIS LAND SYSTEM	FDIS LANDSCAPE UNIT	SCORE	Origin
Rainbow Bee-eater				
1	Darling Plateau	Jarrah Uplands North	0	
2	Darling Plateau	Jarrah Uplands East	1	
3	Darling Plateau	Jarrah Uplands South	0	
4	Darling Plateau	Jarrah Uplands South East	1	
5	Darling Plateau	Karri Uplands	0	
6	Darling Plateau	Wandoo Uplands North	2	
7	Darling Plateau	Powder Bark Uplands	2	
8	Darling Plateau	Scarp	0	
9	Darling Plateau	Depression / Swamps North	1	
10	Darling Plateau	Depressions / Swamps South	0	
11	Darling Plateau	Depressions / Swamps East	2	
12	Darling Plateau	Depressions / Swamps South East	1	
13	Darling Plateau	Jarrah Valleys North	1	
14	Darling Plateau	Jarrah Valleys East	1	
15	Darling Plateau	Jarrah Valleys South	0	
16	Darling Plateau	Jarrah Valleys South East	1	
17	Darling Plateau	Karri Valleys	0	
18	Darling Plateau	Wandoo Valleys North	2	
19	Darling Plateau	Powder Bark Wandoo Valleys	2	
20	Darling Plateau	Granite Outcrops	0	
21	Various Systems	Esturies / Open Water	0	
22	Collie Plain	Uplands	0	
23	Collie Plain	Depressions / Swamps	1	
24	Dandaragan Plateau	Uplands	2	
25	Dandaragan Plateau	Valleys	2	
26	Swan Coastal Plain	Uplands	2	
27	Swan Coastal Plain	Valleys	2	
28	Southern Plains	Jarrah	0	
29	Southern Plains	Karri	0	
30	Southern Plains	Heath / Sedgeland	0	
31	South Coast Dunes	South Coast Dunes	0	
32	Blackwood Plateau	Jarrah Uplands	0	
33	Blackwood Plateau	Karri Uplands	0	
34	Blackwood Plateau	Depressions / Swamps	1	
35	Blackwood Plateau	Valleys	0	
36	Margaret River Plateau	Jarrah Uplands	0	
37	Margaret River Plateau	Karri Uplands	0	
38	Margaret River Plateau	Jarrah Valleys	1	
39	Margaret River Plateau	Karri Valleys	0	
40	Lewin Naturalist Coast	Jarrah	0	
41	Lewin Naturalist Coast	Marri/Karri	0	
42	Lewin Naturalist Coast	Coast Heath	1	
43	Scott Coastal Plain	Uplands	0	
44	Scott Coastal Plain	Valleys / Swamps	0	
45	Redmond	Uplands	1	
46	Redmond	Valleys	0	
47	Unicup	Jarrah Uplands	1	
48	Unicup	Wandoo Uplands	1	
49	Unicup	Jarrah Valleys	1	
50	Unicup	Wandoo Valleys	1	
51	Unicup	Scrubland	1	
53	Darling Plateau	Wandoo Uplands South	2	
54	Darling Plateau	Wandoo Valleys South	2	

## Appendix 2b

Fauna Habitat ID	FDIS LAND SYSTEM	FDIS LANDSCAPE UNIT	SCORE	Origin
White-backed Swallow				
1	Darling Plateau	Jarrah Uplands North	0	
2	Darling Plateau	Jarrah Uplands East	0	
3	Darling Plateau	Jarrah Uplands South	0	
4	Darling Plateau	Jarrah Uplands South East	0	
5	Darling Plateau	Karri Uplands	0	
6	Darling Plateau	Wandoo Uplands North	0	
7	Darling Plateau	Powder Bark Uplands	0	
8	Darling Plateau	Scarp	0	
9	Darling Plateau	Depression / Swamps North	0	
10	Darling Plateau	Depressions / Swamps South	0	
11	Darling Plateau	Depressions / Swamps East	0	
12	Darling Plateau	Depressions / Swamps South East	0	
13	Darling Plateau	Jarrah Valleys North	0	
14	Darling Plateau	Jarrah Valleys East	0	
15	Darling Plateau	Jarrah Valleys South	0	
16	Darling Plateau	Jarrah Valleys South East	0	
17	Darling Plateau	Karri Valleys	0	
18	Darling Plateau	Wandoo Valleys North	0	
19	Darling Plateau	Powder Bark Wandoo Valleys	0	
20	Darling Plateau	Granite Outcrops	0	
21	Various Systems	Esturies / Open Water	0	
22	Collie Plain	Uplands	0	
23	Collie Plain	Depressions / Swamps	0	
24	Dandaragan Plateau	Uplands	1	
25	Dandaragan Plateau	Valleys	1	
26	Swan Coastal Plain	Uplands	1	
27	Swan Coastal Plain	Valleys	1	
28	Southern Plains	Jarrah	0	
29	Southern Plains	Karri	0	
30	Southern Plains	Heath / Sedgeland	0	
31	South Coast Dunes	South Coast Dunes	0	
32	Blackwood Plateau	Jarrah Uplands	0	
33	Blackwood Plateau	Karri Uplands	0	
34	Blackwood Plateau	Depressions / Swamps	0	
35	Blackwood Plateau	Valleys	0	
36	Margaret River Plateau	Jarrah Uplands	0	
37	Margaret River Plateau	Karri Uplands	0	
38	Margaret River Plateau	Jarrah Valleys	0	
39	Margaret River Plateau	Karri Valleys	0	
40	Lewin Naturalist Coast	Jarrah	0	
41	Lewin Naturalist Coast	Marri/Karri	0	
42	Lewin Naturalist Coast	Coast Heath	0	
43	Scott Coastal Plain	Uplands	0	
44	Scott Coastal Plain	Valleys / Swamps	0	
45	Redmond	Uplands	0	
46	Redmond	Valleys	0	
47	Unicup	Jarrah Uplands	0	
48	Unicup	Wandoo Uplands	0	
49	Unicup	Jarrah Valleys	0	
50	Unicup	Wandoo Valleys	0	
51	Unicup	Scrubland	0	
53	Darling Plateau	Wandoo Uplands South	0	
54	Darling Plateau	Wandoo Valleys South	0	

## Appendix 2b

Fauna Habitat ID	FDIS LAND SYSTEM	FDIS LANDSCAPE UNIT	SCORE	Origin
Welcome Swallow				
1	Darling Plateau	Jarrah Uplands North	1	
2	Darling Plateau	Jarrah Uplands East	1	
3	Darling Plateau	Jarrah Uplands South	0	
4	Darling Plateau	Jarrah Uplands South East	1	
5	Darling Plateau	Karri Uplands	0	
6	Darling Plateau	Wandoo Uplands North	1	
7	Darling Plateau	Powder Bark Uplands	1	
8	Darling Plateau	Scarp	1	
9	Darling Plateau	Depression / Swamps North	1	
10	Darling Plateau	Depressions / Swamps South	1	
11	Darling Plateau	Depressions / Swamps East	1	
12	Darling Plateau	Depressions / Swamps South East	1	
13	Darling Plateau	Jarrah Valleys North	1	
14	Darling Plateau	Jarrah Valleys East	1	
15	Darling Plateau	Jarrah Valleys South	0	
16	Darling Plateau	Jarrah Valleys South East	1	
17	Darling Plateau	Karri Valleys	0	
18	Darling Plateau	Wandoo Valleys North	1	
19	Darling Plateau	Powder Bark Wandoo Valleys	1	
20	Darling Plateau	Granite Outcrops	0	
21	Various Systems	Esturies / Open Water	0	
22	Collie Plain	Uplands	1	
23	Collie Plain	Depressions / Swamps	1	
24	Dandaragan Plateau	Uplands	3	
25	Dandaragan Plateau	Valleys	3	
26	Swan Coastal Plain	Uplands	3	
27	Swan Coastal Plain	Valleys	3	
28	Southern Plains	Jarrah	2	
29	Southern Plains	Karri	0	
30	Southern Plains	Heath / Sedgeland	2	
31	South Coast Dunes	South Coast Dunes	1	
32	Blackwood Plateau	Jarrah Uplands	0	
33	Blackwood Plateau	Karri Uplands	0	
34	Blackwood Plateau	Depressions / Swamps	2	
35	Blackwood Plateau	Valleys	0	
36	Margaret River Plateau	Jarrah Uplands	0	
37	Margaret River Plateau	Karri Uplands	0	
38	Margaret River Plateau	Jarrah Valleys	0	
39	Margaret River Plateau	Karri Valleys	0	
40	Lewin Naturalist Coast	Jarrah	0	
41	Lewin Naturalist Coast	Marri/Karri	0	
42	Lewin Naturalist Coast	Coast Heath	3	
43	Scott Coastal Plain	Uplands	2	
44	Scott Coastal Plain	Valleys / Swamps	2	
45	Redmond	Uplands	3	
46	Redmond	Valleys	2	
47	Unicup	Jarrah Uplands	3	
48	Unicup	Wandoo Uplands	3	
49	Unicup	Jarrah Valleys	3	
50	Unicup	Wandoo Valleys	3	
51	Unicup	Scrubland	3	
53	Darling Plateau	Wandoo Uplands South	1	
54	Darling Plateau	Wandoo Valleys South	1	

## Appendix 2b

Fauna Habitat ID	FDIS LAND SYSTEM	FDIS LANDSCAPE UNIT	SCORE	Origin
Tree Martin				
1	Darling Plateau	Jarrah Uplands North	3	
2	Darling Plateau	Jarrah Uplands East	3	
3	Darling Plateau	Jarrah Uplands South	3	
4	Darling Plateau	Jarrah Uplands South East	3	
5	Darling Plateau	Karri Uplands	3	
6	Darling Plateau	Wandoo Uplands North	3	
7	Darling Plateau	Powder Bark Uplands	3	
8	Darling Plateau	Scarp	3	
9	Darling Plateau	Depression / Swamps North	3	
10	Darling Plateau	Depressions / Swamps South	3	
11	Darling Plateau	Depressions / Swamps East	3	
12	Darling Plateau	Depressions / Swamps South East	3	
13	Darling Plateau	Jarrah Valleys North	3	
14	Darling Plateau	Jarrah Valleys East	3	
15	Darling Plateau	Jarrah Valleys South	3	
16	Darling Plateau	Jarrah Valleys South East	3	
17	Darling Plateau	Karri Valleys	3	
18	Darling Plateau	Wandoo Valleys North	3	
19	Darling Plateau	Powder Bark Wandoo Valleys	3	
20	Darling Plateau	Granite Outcrops	3	
21	Various Systems	Esturies / Open Water	0	
22	Collie Plain	Uplands	3	
23	Collie Plain	Depressions / Swamps	3	
24	Dandaragan Plateau	Uplands	3	
25	Dandaragan Plateau	Valleys	3	
26	Swan Coastal Plain	Uplands	3	
27	Swan Coastal Plain	Valleys	3	
28	Southern Plains	Jarrah	3	
29	Southern Plains	Karri	3	
30	Southern Plains	Heath / Sedgeland	3	
31	South Coast Dunes	South Coast Dunes	3	
32	Blackwood Plateau	Jarrah Uplands	3	
33	Blackwood Plateau	Karri Uplands	3	
34	Blackwood Plateau	Depressions / Swamps	3	
35	Blackwood Plateau	Valleys	3	
36	Margaret River Plateau	Jarrah Uplands	3	
37	Margaret River Plateau	Karri Uplands	3	
38	Margaret River Plateau	Jarrah Valleys	3	
39	Margaret River Plateau	Karri Valleys	3	
40	Lewin Naturalist Coast	Jarrah	3	
41	Lewin Naturalist Coast	Marri/Karri	3	
42	Lewin Naturalist Coast	Coast Heath	3	
43	Scott Coastal Plain	Uplands	3	
44	Scott Coastal Plain	Valleys / Swamps	3	
45	Redmond	Uplands	3	
46	Redmond	Valleys	3	
47	Unicup	Jarrah Uplands	3	
48	Unicup	Wandoo Uplands	3	
49	Unicup	Jarrah Valleys	3	
50	Unicup	Wandoo Valleys	3	
51	Unicup	Scrubland	3	
53	Darling Plateau	Wandoo Uplands South	3	
54	Darling Plateau	Wandoo Valleys South	3	

## Appendix 2b

Fauna Habitat ID	FDIS LAND SYSTEM	FDIS LANDSCAPE UNIT	SCORE	Origin
Fairy Martin				
1	Darling Plateau	Jarrah Uplands North	0	
2	Darling Plateau	Jarrah Uplands East	1	
3	Darling Plateau	Jarrah Uplands South	0	
4	Darling Plateau	Jarrah Uplands South East	1	
5	Darling Plateau	Karri Uplands	0	
6	Darling Plateau	Wandoo Uplands North	1	
7	Darling Plateau	Powder Bark Uplands	1	
8	Darling Plateau	Scarp	0	
9	Darling Plateau	Depression / Swamps North	1	
10	Darling Plateau	Depressions / Swamps South	0	
11	Darling Plateau	Depressions / Swamps East	1	
12	Darling Plateau	Depressions / Swamps South East	1	
13	Darling Plateau	Jarrah Valleys North	0	
14	Darling Plateau	Jarrah Valleys East	1	
15	Darling Plateau	Jarrah Valleys South	0	
16	Darling Plateau	Jarrah Valleys South East	1	
17	Darling Plateau	Karri Valleys	0	
18	Darling Plateau	Wandoo Valleys North	1	
19	Darling Plateau	Powder Bark Wandoo Valleys	1	
20	Darling Plateau	Granite Outcrops	0	
21	Various Systems	Esturies / Open Water	0	
22	Collie Plain	Uplands	0	
23	Collie Plain	Depressions / Swamps	0	
24	Dandaragan Plateau	Uplands	2	
25	Dandaragan Plateau	Valleys	2	
26	Swan Coastal Plain	Uplands	2	
27	Swan Coastal Plain	Valleys	2	
28	Southern Plains	Jarrah	0	
29	Southern Plains	Karri	0	
30	Southern Plains	Heath / Sedgeland	0	
31	South Coast Dunes	South Coast Dunes	0	
32	Blackwood Plateau	Jarrah Uplands	1	
33	Blackwood Plateau	Karri Uplands	0	
34	Blackwood Plateau	Depressions / Swamps	0	
35	Blackwood Plateau	Valleys	0	
36	Margaret River Plateau	Jarrah Uplands	1	
37	Margaret River Plateau	Karri Uplands	0	
38	Margaret River Plateau	Jarrah Valleys	0	
39	Margaret River Plateau	Karri Valleys	0	
40	Lewin Naturalist Coast	Jarrah	1	
41	Lewin Naturalist Coast	Marri/Karri	0	
42	Lewin Naturalist Coast	Coast Heath	1	
43	Scott Coastal Plain	Uplands	0	
44	Scott Coastal Plain	Valleys / Swamps	0	
45	Redmond	Uplands	2	
46	Redmond	Valleys	0	
47	Unicup	Jarrah Uplands	2	
48	Unicup	Wandoo Uplands	2	
49	Unicup	Jarrah Valleys	2	
50	Unicup	Wandoo Valleys	2	
51	Unicup	Scrubland	2	
53	Darling Plateau	Wandoo Uplands South	1	
54	Darling Plateau	Wandoo Valleys South	1	

## Appendix 2b

Fauna Habitat ID	FDIS LAND SYSTEM	FDIS LANDSCAPE UNIT	SCORE	Origin
Richard's Pipit				
1	Darling Plateau	Jarrah Uplands North	1	
2	Darling Plateau	Jarrah Uplands East	2	
3	Darling Plateau	Jarrah Uplands South	1	
4	Darling Plateau	Jarrah Uplands South East	2	
5	Darling Plateau	Karri Uplands	1	
6	Darling Plateau	Wandoo Uplands North	2	
7	Darling Plateau	Powder Bark Uplands	2	
8	Darling Plateau	Scarp	1	
9	Darling Plateau	Depression / Swamps North	2	
10	Darling Plateau	Depressions / Swamps South	2	
11	Darling Plateau	Depressions / Swamps East	2	
12	Darling Plateau	Depressions / Swamps South East	2	
13	Darling Plateau	Jarrah Valleys North	1	
14	Darling Plateau	Jarrah Valleys East	2	
15	Darling Plateau	Jarrah Valleys South	1	
16	Darling Plateau	Jarrah Valleys South East	2	
17	Darling Plateau	Karri Valleys	0	
18	Darling Plateau	Wandoo Valleys North	2	
19	Darling Plateau	Powder Bark Wandoo Valleys	2	
20	Darling Plateau	Granite Outcrops	3	
21	Various Systems	Esturies / Open Water	0	
22	Collie Plain	Uplands	2	
23	Collie Plain	Depressions / Swamps	2	
24	Dandaragan Plateau	Uplands	3	
25	Dandaragan Plateau	Valleys	3	
26	Swan Coastal Plain	Uplands	3	
27	Swan Coastal Plain	Valleys	3	
28	Southern Plains	Jarrah	2	
29	Southern Plains	Karri	0	
30	Southern Plains	Heath / Sedgeland	3	
31	South Coast Dunes	South Coast Dunes	3	
32	Blackwood Plateau	Jarrah Uplands	1	
33	Blackwood Plateau	Karri Uplands	1	
34	Blackwood Plateau	Depressions / Swamps	3	
35	Blackwood Plateau	Valleys	0	
36	Margaret River Plateau	Jarrah Uplands	1	
37	Margaret River Plateau	Karri Uplands	1	
38	Margaret River Plateau	Jarrah Valleys	0	
39	Margaret River Plateau	Karri Valleys	0	
40	Lewin Naturalist Coast	Jarrah	1	
41	Lewin Naturalist Coast	Marri/Karri	1	
42	Lewin Naturalist Coast	Coast Heath	3	
43	Scott Coastal Plain	Uplands	2	
44	Scott Coastal Plain	Valleys / Swamps	3	
45	Redmond	Uplands	3	
46	Redmond	Valleys	3	
47	Unicup	Jarrah Uplands	2	
48	Unicup	Wandoo Uplands	2	
49	Unicup	Jarrah Valleys	2	
50	Unicup	Wandoo Valleys	2	
51	Unicup	Scrubland	2	
53	Darling Plateau	Wandoo Uplands South	2	
54	Darling Plateau	Wandoo Valleys South	2	



## Appendix 2b

Fauna Habitat ID	FDIS LAND SYSTEM	FDIS LANDSCAPE UNIT	SCORE	Origin
Black-faced Cuckoo Shrike				
1	Darling Plateau	Jarrah Uplands North	3	
2	Darling Plateau	Jarrah Uplands East	3	
3	Darling Plateau	Jarrah Uplands South	3	
4	Darling Plateau	Jarrah Uplands South East	3	
5	Darling Plateau	Karri Uplands	3	
6	Darling Plateau	Wandoo Uplands North	3	
7	Darling Plateau	Powder Bark Uplands	3	
8	Darling Plateau	Scarp	3	
9	Darling Plateau	Depression / Swamps North	3	
10	Darling Plateau	Depressions / Swamps South	3	
11	Darling Plateau	Depressions / Swamps East	3	
12	Darling Plateau	Depressions / Swamps South East	3	
13	Darling Plateau	Jarrah Valleys North	3	
14	Darling Plateau	Jarrah Valleys East	3	
15	Darling Plateau	Jarrah Valleys South	3	
16	Darling Plateau	Jarrah Valleys South East	3	
17	Darling Plateau	Karri Valleys	3	
18	Darling Plateau	Wandoo Valleys North	3	
19	Darling Plateau	Powder Bark Wandoo Valleys	3	
20	Darling Plateau	Granite Outcrops	3	
21	Various Systems	Esturies / Open Water	0	
22	Collie Plain	Uplands	3	
23	Collie Plain	Depressions / Swamps	3	
24	Dandaragan Plateau	Uplands	3	
25	Dandaragan Plateau	Valleys	3	
26	Swan Coastal Plain	Uplands	3	
27	Swan Coastal Plain	Valleys	3	
28	Southern Plains	Jarrah	3	
29	Southern Plains	Karri	3	
30	Southern Plains	Heath / Sedgeland	3	
31	South Coast Dunes	South Coast Dunes	3	
32	Blackwood Plateau	Jarrah Uplands	3	
33	Blackwood Plateau	Karri Uplands	3	
34	Blackwood Plateau	Depressions / Swamps	3	
35	Blackwood Plateau	Valleys	3	
36	Margaret River Plateau	Jarrah Uplands	3	
37	Margaret River Plateau	Karri Uplands	3	
38	Margaret River Plateau	Jarrah Valleys	3	
39	Margaret River Plateau	Karri Valleys	3	
40	Lewin Naturalist Coast	Jarrah	3	
41	Lewin Naturalist Coast	Marri/Karri	3	
42	Lewin Naturalist Coast	Coast Heath	3	
43	Scott Coastal Plain	Uplands	3	
44	Scott Coastal Plain	Valleys / Swamps	3	
45	Redmond	Uplands	3	
46	Redmond	Valleys	3	
47	Unicup	Jarrah Uplands	3	
48	Unicup	Wandoo Uplands	3	
49	Unicup	Jarrah Valleys	3	
50	Unicup	Wandoo Valleys	3	
51	Unicup	Scrubland	3	
53	Darling Plateau	Wandoo Uplands South	3	
54	Darling Plateau	Wandoo Valleys South	3	

## Appendix 2b

Fauna Habitat ID	FDIS LAND SYSTEM	FDIS LANDSCAPE UNIT	SCORE	Origin
White-winged Triller				
1	Darling Plateau	Jarrah Uplands North	1	
2	Darling Plateau	Jarrah Uplands East	2	
3	Darling Plateau	Jarrah Uplands South	0	
4	Darling Plateau	Jarrah Uplands South East	2	
5	Darling Plateau	Karri Uplands	0	
6	Darling Plateau	Wandoo Uplands North	2	
7	Darling Plateau	Powder Bark Uplands	2	
8	Darling Plateau	Scarp	1	
9	Darling Plateau	Depression / Swamps North	2	
10	Darling Plateau	Depressions / Swamps South	2	
11	Darling Plateau	Depressions / Swamps East	2	
12	Darling Plateau	Depressions / Swamps South East	2	
13	Darling Plateau	Jarrah Valleys North	1	
14	Darling Plateau	Jarrah Valleys East	2	
15	Darling Plateau	Jarrah Valleys South	0	
16	Darling Plateau	Jarrah Valleys South East	2	
17	Darling Plateau	Karri Valleys	0	
18	Darling Plateau	Wandoo Valleys North	2	
19	Darling Plateau	Powder Bark Wandoo Valleys	2	
20	Darling Plateau	Granite Outcrops	0	
21	Various Systems	Esturies / Open Water	0	
22	Collie Plain	Uplands	2	
23	Collie Plain	Depressions / Swamps	2	
24	Dandaragan Plateau	Uplands	3	
25	Dandaragan Plateau	Valleys	3	
26	Swan Coastal Plain	Uplands	3	
27	Swan Coastal Plain	Valleys	3	
28	Southern Plains	Jarrah	0	
29	Southern Plains	Karri	0	
30	Southern Plains	Heath / Sedgeland	0	
31	South Coast Dunes	South Coast Dunes	0	
32	Blackwood Plateau	Jarrah Uplands	0	
33	Blackwood Plateau	Karri Uplands	0	
34	Blackwood Plateau	Depressions / Swamps	0	
35	Blackwood Plateau	Valleys	0	
36	Margaret River Plateau	Jarrah Uplands	0	
37	Margaret River Plateau	Karri Uplands	0	
38	Margaret River Plateau	Jarrah Valleys	0	
39	Margaret River Plateau	Karri Valleys	0	
40	Lewin Naturalist Coast	Jarrah	0	
41	Lewin Naturalist Coast	Marri/Karri	0	
42	Lewin Naturalist Coast	Coast Heath	2	
43	Scott Coastal Plain	Uplands	0	
44	Scott Coastal Plain	Valleys / Swamps	0	
45	Redmond	Uplands	2	
46	Redmond	Valleys	0	
47	Unicup	Jarrah Uplands	2	
48	Unicup	Wandoo Uplands	2	
49	Unicup	Jarrah Valleys	2	
50	Unicup	Wandoo Valleys	2	
51	Unicup	Scrubland	2	
53	Darling Plateau	Wandoo Uplands South	2	
54	Darling Plateau	Wandoo Valleys South	2	

## Appendix 2b

Fauna Habitat ID	FDIS LAND SYSTEM	FDIS LANDSCAPE UNIT	SCORE	Origin
Scarlet Robin				
1	Darling Plateau	Jarrah Uplands North	3	
2	Darling Plateau	Jarrah Uplands East	3	
3	Darling Plateau	Jarrah Uplands South	3	
4	Darling Plateau	Jarrah Uplands South East	3	
5	Darling Plateau	Karri Uplands	1	
6	Darling Plateau	Wandoo Uplands North	3	
7	Darling Plateau	Powder Bark Uplands	3	
8	Darling Plateau	Scarp	3	
9	Darling Plateau	Depression / Swamps North	3	
10	Darling Plateau	Depressions / Swamps South	3	
11	Darling Plateau	Depressions / Swamps East	3	
12	Darling Plateau	Depressions / Swamps South East	3	
13	Darling Plateau	Jarrah Valleys North	3	
14	Darling Plateau	Jarrah Valleys East	3	
15	Darling Plateau	Jarrah Valleys South	3	
16	Darling Plateau	Jarrah Valleys South East	3	
17	Darling Plateau	Karri Valleys	1	
18	Darling Plateau	Wandoo Valleys North	3	
19	Darling Plateau	Powder Bark Wandoo Valleys	3	
20	Darling Plateau	Granite Outcrops	3	
21	Various Systems	Esturies / Open Water	0	
22	Collie Plain	Uplands	3	
23	Collie Plain	Depressions / Swamps	3	
24	Dandaragan Plateau	Uplands	3	
25	Dandaragan Plateau	Valleys	3	
26	Swan Coastal Plain	Uplands	3	
27	Swan Coastal Plain	Valleys	3	
28	Southern Plains	Jarrah	3	
29	Southern Plains	Karri	1	
30	Southern Plains	Heath / Sedgeland	3	
31	South Coast Dunes	South Coast Dunes	3	
32	Blackwood Plateau	Jarrah Uplands	3	
33	Blackwood Plateau	Karri Uplands	1	
34	Blackwood Plateau	Depressions / Swamps	3	
35	Blackwood Plateau	Valleys	3	
36	Margaret River Plateau	Jarrah Uplands	3	
37	Margaret River Plateau	Karri Uplands	1	
38	Margaret River Plateau	Jarrah Valleys	3	
39	Margaret River Plateau	Karri Valleys	1	
40	Lewin Naturalist Coast	Jarrah	3	
41	Lewin Naturalist Coast	Marri/Karri	1	
42	Lewin Naturalist Coast	Coast Heath	3	
43	Scott Coastal Plain	Uplands	3	
44	Scott Coastal Plain	Valleys / Swamps	3	
45	Redmond	Uplands	3	
46	Redmond	Valleys	3	
47	Unicup	Jarrah Uplands	3	
48	Unicup	Wandoo Uplands	3	
49	Unicup	Jarrah Valleys	3	
50	Unicup	Wandoo Valleys	3	
51	Unicup	Scrubland	3	
53	Darling Plateau	Wandoo Uplands South	3	
54	Darling Plateau	Wandoo Valleys South	3	

## Appendix 2b

Fauna Habitat ID	FDIS LAND SYSTEM	FDIS LANDSCAPE UNIT	SCORE	Origin
Red-capped Robin				
1	Darling Plateau	Jarrah Uplands North	2	
2	Darling Plateau	Jarrah Uplands East	3	
3	Darling Plateau	Jarrah Uplands South	1	
4	Darling Plateau	Jarrah Uplands South East	3	
5	Darling Plateau	Karri Uplands	0	
6	Darling Plateau	Wandoo Uplands North	3	
7	Darling Plateau	Powder Bark Uplands	3	
8	Darling Plateau	Scarp	2	
9	Darling Plateau	Depression / Swamps North	3	
10	Darling Plateau	Depressions / Swamps South	0	
11	Darling Plateau	Depressions / Swamps East	2	
12	Darling Plateau	Depressions / Swamps South East	1	
13	Darling Plateau	Jarrah Valleys North	2	
14	Darling Plateau	Jarrah Valleys East	3	
15	Darling Plateau	Jarrah Valleys South	3	
16	Darling Plateau	Jarrah Valleys South East	3	
17	Darling Plateau	Karri Valleys	0	
18	Darling Plateau	Wandoo Valleys North	3	
19	Darling Plateau	Powder Bark Wandoo Valleys	3	
20	Darling Plateau	Granite Outcrops	2	
21	Various Systems	Esturies / Open Water	0	
22	Collie Plain	Uplands	3	
23	Collie Plain	Depressions / Swamps	3	
24	Dandaragan Plateau	Uplands	3	
25	Dandaragan Plateau	Valleys	3	
26	Swan Coastal Plain	Uplands	3	
27	Swan Coastal Plain	Valleys	3	
28	Southern Plains	Jarrah	0	
29	Southern Plains	Karri	0	
30	Southern Plains	Heath / Sedgeland	0	
31	South Coast Dunes	South Coast Dunes	0	
32	Blackwood Plateau	Jarrah Uplands	1	
33	Blackwood Plateau	Karri Uplands	0	
34	Blackwood Plateau	Depressions / Swamps	1	
35	Blackwood Plateau	Valleys	0	
36	Margaret River Plateau	Jarrah Uplands	1	
37	Margaret River Plateau	Karri Uplands	0	
38	Margaret River Plateau	Jarrah Valleys	0	
39	Margaret River Plateau	Karri Valleys	0	
40	Lewin Naturalist Coast	Jarrah	1	
41	Lewin Naturalist Coast	Marri/Karri	0	
42	Lewin Naturalist Coast	Coast Heath	1	
43	Scott Coastal Plain	Uplands	1	
44	Scott Coastal Plain	Valleys / Swamps	1	
45	Redmond	Uplands	2	
46	Redmond	Valleys	1	
47	Unicup	Jarrah Uplands	2	
48	Unicup	Wandoo Uplands	2	
49	Unicup	Jarrah Valleys	2	
50	Unicup	Wandoo Valleys	2	
51	Unicup	Scrubland	2	
53	Darling Plateau	Wandoo Uplands South	1	
54	Darling Plateau	Wandoo Valleys South	1	

## Appendix 2b

Fauna Habitat ID	FDIS LAND SYSTEM	FDIS LANDSCAPE UNIT	SCORE	Origin
Hooded Robin				
1	Darling Plateau	Jarrah Uplands North	1	
2	Darling Plateau	Jarrah Uplands East	1	
3	Darling Plateau	Jarrah Uplands South	0	
4	Darling Plateau	Jarrah Uplands South East	0	
5	Darling Plateau	Karri Uplands	0	
6	Darling Plateau	Wandoo Uplands North	1	
7	Darling Plateau	Powder Bark Uplands	1	
8	Darling Plateau	Scarp	1	
9	Darling Plateau	Depression / Swamps North	1	
10	Darling Plateau	Depressions / Swamps South	0	
11	Darling Plateau	Depressions / Swamps East	1	
12	Darling Plateau	Depressions / Swamps South East	0	
13	Darling Plateau	Jarrah Valleys North	1	
14	Darling Plateau	Jarrah Valleys East	1	
15	Darling Plateau	Jarrah Valleys South	0	
16	Darling Plateau	Jarrah Valleys South East	0	
17	Darling Plateau	Karri Valleys	0	
18	Darling Plateau	Wandoo Valleys North	1	
19	Darling Plateau	Powder Bark Wandoo Valleys	1	
20	Darling Plateau	Granite Outcrops	1	
21	Various Systems	Esturies / Open Water	0	
22	Collie Plain	Uplands	0	
23	Collie Plain	Depressions / Swamps	0	
24	Dandaragan Plateau	Uplands	1	
25	Dandaragan Plateau	Valleys	1	
26	Swan Coastal Plain	Uplands	1	
27	Swan Coastal Plain	Valleys	1	
28	Southern Plains	Jarrah	0	
29	Southern Plains	Karri	0	
30	Southern Plains	Heath / Sedgeland	0	
31	South Coast Dunes	South Coast Dunes	0	
32	Blackwood Plateau	Jarrah Uplands	0	
33	Blackwood Plateau	Karri Uplands	0	
34	Blackwood Plateau	Depressions / Swamps	0	
35	Blackwood Plateau	Valleys	0	
36	Margaret River Plateau	Jarrah Uplands	0	
37	Margaret River Plateau	Karri Uplands	0	
38	Margaret River Plateau	Jarrah Valleys	0	
39	Margaret River Plateau	Karri Valleys	0	
40	Lewin Naturalist Coast	Jarrah	0	
41	Lewin Naturalist Coast	Marri/Karri	0	
42	Lewin Naturalist Coast	Coast Heath	1	
43	Scott Coastal Plain	Uplands	0	
44	Scott Coastal Plain	Valleys / Swamps	0	
45	Redmond	Uplands	0	
46	Redmond	Valleys	0	
47	Unicup	Jarrah Uplands	0	
48	Unicup	Wandoo Uplands	0	
49	Unicup	Jarrah Valleys	0	
50	Unicup	Wandoo Valleys	0	
51	Unicup	Scrubland	0	
53	Darling Plateau	Wandoo Uplands South	1	
54	Darling Plateau	Wandoo Valleys South	1	

## Appendix 2b

Fauna Habitat ID	FDIS LAND SYSTEM	FDIS LANDSCAPE UNIT	SCORE	Origin
White-breasted Robin				
1	Darling Plateau	Jarrah Uplands North	2	
2	Darling Plateau	Jarrah Uplands East	1	
3	Darling Plateau	Jarrah Uplands South	3	
4	Darling Plateau	Jarrah Uplands South East	1	
5	Darling Plateau	Karri Uplands	3	
6	Darling Plateau	Wandoo Uplands North	0	
7	Darling Plateau	Powder Bark Uplands	0	
8	Darling Plateau	Scarp	2	
9	Darling Plateau	Depression / Swamps North	3	
10	Darling Plateau	Depressions / Swamps South	3	
11	Darling Plateau	Depressions / Swamps East	1	
12	Darling Plateau	Depressions / Swamps South East	3	
13	Darling Plateau	Jarrah Valleys North	2	
14	Darling Plateau	Jarrah Valleys East	1	
15	Darling Plateau	Jarrah Valleys South	3	
16	Darling Plateau	Jarrah Valleys South East	1	
17	Darling Plateau	Karri Valleys	3	
18	Darling Plateau	Wandoo Valleys North	0	
19	Darling Plateau	Powder Bark Wandoo Valleys	0	
20	Darling Plateau	Granite Outcrops	1	
21	Various Systems	Esturies / Open Water	0	
22	Collie Plain	Uplands	0	
23	Collie Plain	Depressions / Swamps	2	
24	Dandaragan Plateau	Uplands	0	
25	Dandaragan Plateau	Valleys	1	
26	Swan Coastal Plain	Uplands	2	
27	Swan Coastal Plain	Valleys	3	
28	Southern Plains	Jarrah	3	
29	Southern Plains	Karri	3	
30	Southern Plains	Heath / Sedgeland	3	
31	South Coast Dunes	South Coast Dunes	3	
32	Blackwood Plateau	Jarrah Uplands	3	
33	Blackwood Plateau	Karri Uplands	3	
34	Blackwood Plateau	Depressions / Swamps	3	
35	Blackwood Plateau	Valleys	3	
36	Margaret River Plateau	Jarrah Uplands	3	
37	Margaret River Plateau	Karri Uplands	3	
38	Margaret River Plateau	Jarrah Valleys	3	
39	Margaret River Plateau	Karri Valleys	3	
40	Lewin Naturalist Coast	Jarrah	3	
41	Lewin Naturalist Coast	Marri/Karri	3	
42	Lewin Naturalist Coast	Coast Heath	3	
43	Scott Coastal Plain	Uplands	3	
44	Scott Coastal Plain	Valleys / Swamps	3	
45	Redmond	Uplands	3	
46	Redmond	Valleys	3	
47	Unicup	Jarrah Uplands	0	
48	Unicup	Wandoo Uplands	0	
49	Unicup	Jarrah Valleys	1	
50	Unicup	Wandoo Valleys	1	
51	Unicup	Scrubland	0	
53	Darling Plateau	Wandoo Uplands South	0	
54	Darling Plateau	Wandoo Valleys South	2	

## Appendix 2b

Fauna Habitat ID	FDIS LAND SYSTEM	FDIS LANDSCAPE UNIT	SCORE	Origin
Western Yellow Robin				
1	Darling Plateau	Jarrah Uplands North	3	
2	Darling Plateau	Jarrah Uplands East	3	
3	Darling Plateau	Jarrah Uplands South	2	
4	Darling Plateau	Jarrah Uplands South East	3	
5	Darling Plateau	Karri Uplands	0	
6	Darling Plateau	Wandoo Uplands North	3	
7	Darling Plateau	Powder Bark Uplands	3	
8	Darling Plateau	Scarp	3	
9	Darling Plateau	Depression / Swamps North	3	
10	Darling Plateau	Depressions / Swamps South	0	
11	Darling Plateau	Depressions / Swamps East	1	
12	Darling Plateau	Depressions / Swamps South East	1	
13	Darling Plateau	Jarrah Valleys North	3	
14	Darling Plateau	Jarrah Valleys East	3	
15	Darling Plateau	Jarrah Valleys South	2	
16	Darling Plateau	Jarrah Valleys South East	3	
17	Darling Plateau	Karri Valleys	0	
18	Darling Plateau	Wandoo Valleys North	3	
19	Darling Plateau	Powder Bark Wandoo Valleys	3	
20	Darling Plateau	Granite Outcrops	1	
21	Various Systems	Esturies / Open Water	0	
22	Collie Plain	Uplands	3	
23	Collie Plain	Depressions / Swamps	3	
24	Dandaragan Plateau	Uplands	2	
25	Dandaragan Plateau	Valleys	2	
26	Swan Coastal Plain	Uplands	3	
27	Swan Coastal Plain	Valleys	3	
28	Southern Plains	Jarrah	0	
29	Southern Plains	Karri	0	
30	Southern Plains	Heath / Sedgeland	0	
31	South Coast Dunes	South Coast Dunes	0	
32	Blackwood Plateau	Jarrah Uplands	2	
33	Blackwood Plateau	Karri Uplands	0	
34	Blackwood Plateau	Depressions / Swamps	0	
35	Blackwood Plateau	Valleys	2	
36	Margaret River Plateau	Jarrah Uplands	2	
37	Margaret River Plateau	Karri Uplands	0	
38	Margaret River Plateau	Jarrah Valleys	2	
39	Margaret River Plateau	Karri Valleys	0	
40	Lewin Naturalist Coast	Jarrah	2	
41	Lewin Naturalist Coast	Marri/Karri	0	
42	Lewin Naturalist Coast	Coast Heath	0	
43	Scott Coastal Plain	Uplands	0	
44	Scott Coastal Plain	Valleys / Swamps	0	
45	Redmond	Uplands	2	
46	Redmond	Valleys	2	
47	Unicup	Jarrah Uplands	3	
48	Unicup	Wandoo Uplands	3	
49	Unicup	Jarrah Valleys	3	
50	Unicup	Wandoo Valleys	3	
51	Unicup	Scrubland	3	
53	Darling Plateau	Wandoo Uplands South	3	
54	Darling Plateau	Wandoo Valleys South	3	

## Appendix 2b

Fauna Habitat ID	FDIS LAND SYSTEM	FDIS LANDSCAPE UNIT	SCORE	Origin
Crested Shrike-tit				
1	Darling Plateau	Jarrah Uplands North	1	
2	Darling Plateau	Jarrah Uplands East	2	
3	Darling Plateau	Jarrah Uplands South	1	
4	Darling Plateau	Jarrah Uplands South East	2	
5	Darling Plateau	Karri Uplands	3	
6	Darling Plateau	Wandoo Uplands North	0	
7	Darling Plateau	Powder Bark Uplands	1	
8	Darling Plateau	Scarp	0	
9	Darling Plateau	Depression / Swamps North	1	
10	Darling Plateau	Depressions / Swamps South	0	
11	Darling Plateau	Depressions / Swamps East	0	
12	Darling Plateau	Depressions / Swamps South East	0	
13	Darling Plateau	Jarrah Valleys North	1	
14	Darling Plateau	Jarrah Valleys East	2	
15	Darling Plateau	Jarrah Valleys South	1	
16	Darling Plateau	Jarrah Valleys South East	2	
17	Darling Plateau	Karri Valleys	3	
18	Darling Plateau	Wandoo Valleys North	0	
19	Darling Plateau	Powder Bark Wandoo Valleys	1	
20	Darling Plateau	Granite Outcrops	0	
21	Various Systems	Esturies / Open Water	0	
22	Collie Plain	Uplands	1	
23	Collie Plain	Depressions / Swamps	0	
24	Dandaragan Plateau	Uplands	0	
25	Dandaragan Plateau	Valleys	0	
26	Swan Coastal Plain	Uplands	0	
27	Swan Coastal Plain	Valleys	0	
28	Southern Plains	Jarrah	1	
29	Southern Plains	Karri	1	
30	Southern Plains	Heath / Sedgeland	0	
31	South Coast Dunes	South Coast Dunes	1	
32	Blackwood Plateau	Jarrah Uplands	1	
33	Blackwood Plateau	Karri Uplands	3	
34	Blackwood Plateau	Depressions / Swamps	1	
35	Blackwood Plateau	Valleys	1	
36	Margaret River Plateau	Jarrah Uplands	1	
37	Margaret River Plateau	Karri Uplands	3	
38	Margaret River Plateau	Jarrah Valleys	1	
39	Margaret River Plateau	Karri Valleys	3	
40	Lewin Naturalist Coast	Jarrah	1	
41	Lewin Naturalist Coast	Marri/Karri	3	
42	Lewin Naturalist Coast	Coast Heath	0	
43	Scott Coastal Plain	Uplands	1	
44	Scott Coastal Plain	Valleys / Swamps	0	
45	Redmond	Uplands	2	
46	Redmond	Valleys	1	
47	Unicup	Jarrah Uplands	1	
48	Unicup	Wandoo Uplands	1	
49	Unicup	Jarrah Valleys	1	
50	Unicup	Wandoo Valleys	1	
51	Unicup	Scrubland	1	
53	Darling Plateau	Wandoo Uplands South	2	
54	Darling Plateau	Wandoo Valleys South	2	



## Appendix 2b

Fauna Habitat ID	FDIS LAND SYSTEM	FDIS LANDSCAPE UNIT	SCORE	Origin
Golden Whistler				
1	Darling Plateau	Jarrah Uplands North	3	
2	Darling Plateau	Jarrah Uplands East	3	
3	Darling Plateau	Jarrah Uplands South	3	
4	Darling Plateau	Jarrah Uplands South East	3	
5	Darling Plateau	Karri Uplands	3	
6	Darling Plateau	Wandoo Uplands North	3	
7	Darling Plateau	Powder Bark Uplands	3	
8	Darling Plateau	Scarp	3	
9	Darling Plateau	Depression / Swamps North	3	
10	Darling Plateau	Depressions / Swamps South	3	
11	Darling Plateau	Depressions / Swamps East	3	
12	Darling Plateau	Depressions / Swamps South East	3	
13	Darling Plateau	Jarrah Valleys North	3	
14	Darling Plateau	Jarrah Valleys East	3	
15	Darling Plateau	Jarrah Valleys South	3	
16	Darling Plateau	Jarrah Valleys South East	3	
17	Darling Plateau	Karri Valleys	3	
18	Darling Plateau	Wandoo Valleys North	3	
19	Darling Plateau	Powder Bark Wandoo Valleys	3	
20	Darling Plateau	Granite Outcrops	3	
21	Various Systems	Esturies / Open Water	0	
22	Collie Plain	Uplands	3	
23	Collie Plain	Depressions / Swamps	3	
24	Dandaragan Plateau	Uplands	3	
25	Dandaragan Plateau	Valleys	3	
26	Swan Coastal Plain	Uplands	3	
27	Swan Coastal Plain	Valleys	3	
28	Southern Plains	Jarrah	3	
29	Southern Plains	Karri	3	
30	Southern Plains	Heath / Sedgeland	3	
31	South Coast Dunes	South Coast Dunes	3	
32	Blackwood Plateau	Jarrah Uplands	3	
33	Blackwood Plateau	Karri Uplands	3	
34	Blackwood Plateau	Depressions / Swamps	3	
35	Blackwood Plateau	Valleys	3	
36	Margaret River Plateau	Jarrah Uplands	3	
37	Margaret River Plateau	Karri Uplands	3	
38	Margaret River Plateau	Jarrah Valleys	3	
39	Margaret River Plateau	Karri Valleys	3	
40	Lewin Naturalist Coast	Jarrah	3	
41	Lewin Naturalist Coast	Marri/Karri	3	
42	Lewin Naturalist Coast	Coast Heath	3	
43	Scott Coastal Plain	Uplands	3	
44	Scott Coastal Plain	Valleys / Swamps	3	
45	Redmond	Uplands	3	
46	Redmond	Valleys	3	
47	Unicup	Jarrah Uplands	3	
48	Unicup	Wandoo Uplands	3	
49	Unicup	Jarrah Valleys	3	
50	Unicup	Wandoo Valleys	3	
51	Unicup	Scrubland	3	
53	Darling Plateau	Wandoo Uplands South	3	
54	Darling Plateau	Wandoo Valleys South	3	

## Appendix 2b

Fauna Habitat ID	FDIS LAND SYSTEM	FDIS LANDSCAPE UNIT	SCORE	Origin
Rufous Whistler				
1	Darling Plateau	Jarrah Uplands North	2	
2	Darling Plateau	Jarrah Uplands East	3	
3	Darling Plateau	Jarrah Uplands South	0	
4	Darling Plateau	Jarrah Uplands South East	3	
5	Darling Plateau	Karri Uplands	0	
6	Darling Plateau	Wandoo Uplands North	2	
7	Darling Plateau	Powder Bark Uplands	3	
8	Darling Plateau	Scarp	2	
9	Darling Plateau	Depression / Swamps North	3	
10	Darling Plateau	Depressions / Swamps South	0	
11	Darling Plateau	Depressions / Swamps East	1	
12	Darling Plateau	Depressions / Swamps South East	1	
13	Darling Plateau	Jarrah Valleys North	2	
14	Darling Plateau	Jarrah Valleys East	3	
15	Darling Plateau	Jarrah Valleys South	0	
16	Darling Plateau	Jarrah Valleys South East	3	
17	Darling Plateau	Karri Valleys	0	
18	Darling Plateau	Wandoo Valleys North	2	
19	Darling Plateau	Powder Bark Wandoo Valleys	3	
20	Darling Plateau	Granite Outcrops	1	
21	Various Systems	Esturies / Open Water	0	
22	Collie Plain	Uplands	2	
23	Collie Plain	Depressions / Swamps	2	
24	Dandaragan Plateau	Uplands	3	
25	Dandaragan Plateau	Valleys	3	
26	Swan Coastal Plain	Uplands	3	
27	Swan Coastal Plain	Valleys	3	
28	Southern Plains	Jarrah	0	
29	Southern Plains	Karri	0	
30	Southern Plains	Heath / Sedgeland	0	
31	South Coast Dunes	South Coast Dunes	0	
32	Blackwood Plateau	Jarrah Uplands	2	
33	Blackwood Plateau	Karri Uplands	0	
34	Blackwood Plateau	Depressions / Swamps	1	
35	Blackwood Plateau	Valleys	2	
36	Margaret River Plateau	Jarrah Uplands	2	
37	Margaret River Plateau	Karri Uplands	0	
38	Margaret River Plateau	Jarrah Valleys	2	
39	Margaret River Plateau	Karri Valleys	0	
40	Lewin Naturalist Coast	Jarrah	2	
41	Lewin Naturalist Coast	Marri/Karri	0	
42	Lewin Naturalist Coast	Coast Heath	2	
43	Scott Coastal Plain	Uplands	0	
44	Scott Coastal Plain	Valleys / Swamps	0	
45	Redmond	Uplands	3	
46	Redmond	Valleys	0	
47	Unicup	Jarrah Uplands	3	
48	Unicup	Wandoo Uplands	3	
49	Unicup	Jarrah Valleys	3	
50	Unicup	Wandoo Valleys	3	
51	Unicup	Scrubland	3	
53	Darling Plateau	Wandoo Uplands South	2	
54	Darling Plateau	Wandoo Valleys South	2	

## Appendix 2b

Fauna Habitat ID	FDIS LAND SYSTEM	FDIS LANDSCAPE UNIT	SCORE	Origin
Grey Shrike-thrush				
1	Darling Plateau	Jarrah Uplands North	3	
2	Darling Plateau	Jarrah Uplands East	3	
3	Darling Plateau	Jarrah Uplands South	3	
4	Darling Plateau	Jarrah Uplands South East	3	
5	Darling Plateau	Karri Uplands	3	
6	Darling Plateau	Wandoo Uplands North	3	
7	Darling Plateau	Powder Bark Uplands	3	
8	Darling Plateau	Scarp	3	
9	Darling Plateau	Depression / Swamps North	3	
10	Darling Plateau	Depressions / Swamps South	3	
11	Darling Plateau	Depressions / Swamps East	3	
12	Darling Plateau	Depressions / Swamps South East	3	
13	Darling Plateau	Jarrah Valleys North	3	
14	Darling Plateau	Jarrah Valleys East	3	
15	Darling Plateau	Jarrah Valleys South	3	
16	Darling Plateau	Jarrah Valleys South East	3	
17	Darling Plateau	Karri Valleys	3	
18	Darling Plateau	Wandoo Valleys North	3	
19	Darling Plateau	Powder Bark Wandoo Valleys	3	
20	Darling Plateau	Granite Outcrops	3	
21	Various Systems	Esturies / Open Water	0	
22	Collie Plain	Uplands	3	
23	Collie Plain	Depressions / Swamps	3	
24	Dandaragan Plateau	Uplands	3	
25	Dandaragan Plateau	Valleys	3	
26	Swan Coastal Plain	Uplands	3	
27	Swan Coastal Plain	Valleys	3	
28	Southern Plains	Jarrah	3	
29	Southern Plains	Karri	3	
30	Southern Plains	Heath / Sedgeland	3	
31	South Coast Dunes	South Coast Dunes	3	
32	Blackwood Plateau	Jarrah Uplands	3	
33	Blackwood Plateau	Karri Uplands	3	
34	Blackwood Plateau	Depressions / Swamps	3	
35	Blackwood Plateau	Valleys	3	
36	Margaret River Plateau	Jarrah Uplands	3	
37	Margaret River Plateau	Karri Uplands	3	
38	Margaret River Plateau	Jarrah Valleys	3	
39	Margaret River Plateau	Karri Valleys	3	
40	Lewin Naturalist Coast	Jarrah	3	
41	Lewin Naturalist Coast	Marri/Karri	3	
42	Lewin Naturalist Coast	Coast Heath	3	
43	Scott Coastal Plain	Uplands	3	
44	Scott Coastal Plain	Valleys / Swamps	3	
45	Redmond	Uplands	3	
46	Redmond	Valleys	3	
47	Unicup	Jarrah Uplands	3	
48	Unicup	Wandoo Uplands	3	
49	Unicup	Jarrah Valleys	3	
50	Unicup	Wandoo Valleys	3	
51	Unicup	Scrubland	3	
53	Darling Plateau	Wandoo Uplands South	3	
54	Darling Plateau	Wandoo Valleys South	3	

## Appendix 2b

Fauna Habitat ID	FDIS LAND SYSTEM	FDIS LANDSCAPE UNIT	SCORE	Origin
Crested Bellbird				
1	Darling Plateau	Jarrah Uplands North	0	
2	Darling Plateau	Jarrah Uplands East	1	
3	Darling Plateau	Jarrah Uplands South	0	
4	Darling Plateau	Jarrah Uplands South East	0	
5	Darling Plateau	Karri Uplands	0	
6	Darling Plateau	Wandoo Uplands North	1	
7	Darling Plateau	Powder Bark Uplands	1	
8	Darling Plateau	Scarp	0	
9	Darling Plateau	Depression / Swamps North	0	
10	Darling Plateau	Depressions / Swamps South	0	
11	Darling Plateau	Depressions / Swamps East	1	
12	Darling Plateau	Depressions / Swamps South East	0	
13	Darling Plateau	Jarrah Valleys North	0	
14	Darling Plateau	Jarrah Valleys East	1	
15	Darling Plateau	Jarrah Valleys South	0	
16	Darling Plateau	Jarrah Valleys South East	1	
17	Darling Plateau	Karri Valleys	0	
18	Darling Plateau	Wandoo Valleys North	1	
19	Darling Plateau	Powder Bark Wandoo Valleys	1	
20	Darling Plateau	Granite Outcrops	0	
21	Various Systems	Esturies / Open Water	0	
22	Collie Plain	Uplands	0	
23	Collie Plain	Depressions / Swamps	0	
24	Dandaragan Plateau	Uplands	1	
25	Dandaragan Plateau	Valleys	1	
26	Swan Coastal Plain	Uplands	1	
27	Swan Coastal Plain	Valleys	1	
28	Southern Plains	Jarrah	0	
29	Southern Plains	Karri	0	
30	Southern Plains	Heath / Sedgeland	0	
31	South Coast Dunes	South Coast Dunes	0	
32	Blackwood Plateau	Jarrah Uplands	0	
33	Blackwood Plateau	Karri Uplands	0	
34	Blackwood Plateau	Depressions / Swamps	0	
35	Blackwood Plateau	Valleys	0	
36	Margaret River Plateau	Jarrah Uplands	0	
37	Margaret River Plateau	Karri Uplands	0	
38	Margaret River Plateau	Jarrah Valleys	0	
39	Margaret River Plateau	Karri Valleys	0	
40	Lewin Naturalist Coast	Jarrah	0	
41	Lewin Naturalist Coast	Marri/Karri	0	
42	Lewin Naturalist Coast	Coast Heath	0	
43	Scott Coastal Plain	Uplands	0	
44	Scott Coastal Plain	Valleys / Swamps	0	
45	Redmond	Uplands	0	
46	Redmond	Valleys	0	
47	Unicup	Jarrah Uplands	0	
48	Unicup	Wandoo Uplands	0	
49	Unicup	Jarrah Valleys	0	
50	Unicup	Wandoo Valleys	0	
51	Unicup	Scrubland	0	
53	Darling Plateau	Wandoo Uplands South	1	
54	Darling Plateau	Wandoo Valleys South	1	

## Appendix 2b

Fauna Habitat ID	FDIS LAND SYSTEM	FDIS LANDSCAPE UNIT	SCORE	Origin
Restless Flycatcher				
1	Darling Plateau	Jarrah Uplands North	2	
2	Darling Plateau	Jarrah Uplands East	3	
3	Darling Plateau	Jarrah Uplands South	2	
4	Darling Plateau	Jarrah Uplands South East	3	
5	Darling Plateau	Karri Uplands	1	
6	Darling Plateau	Wandoo Uplands North	3	
7	Darling Plateau	Powder Bark Uplands	2	
8	Darling Plateau	Scarp	2	
9	Darling Plateau	Depression / Swamps North	2	
10	Darling Plateau	Depressions / Swamps South	1	
11	Darling Plateau	Depressions / Swamps East	1	
12	Darling Plateau	Depressions / Swamps South East	1	
13	Darling Plateau	Jarrah Valleys North	2	
14	Darling Plateau	Jarrah Valleys East	3	
15	Darling Plateau	Jarrah Valleys South	2	
16	Darling Plateau	Jarrah Valleys South East	3	
17	Darling Plateau	Karri Valleys	1	
18	Darling Plateau	Wandoo Valleys North	3	
19	Darling Plateau	Powder Bark Wandoo Valleys	2	
20	Darling Plateau	Granite Outcrops	1	
21	Various Systems	Esturies / Open Water	0	
22	Collie Plain	Uplands	2	
23	Collie Plain	Depressions / Swamps	2	
24	Dandaragan Plateau	Uplands	3	
25	Dandaragan Plateau	Valleys	3	
26	Swan Coastal Plain	Uplands	3	
27	Swan Coastal Plain	Valleys	3	
28	Southern Plains	Jarrah	2	
29	Southern Plains	Karri	2	
30	Southern Plains	Heath / Sedgeland	2	
31	South Coast Dunes	South Coast Dunes	0	
32	Blackwood Plateau	Jarrah Uplands	2	
33	Blackwood Plateau	Karri Uplands	2	
34	Blackwood Plateau	Depressions / Swamps	2	
35	Blackwood Plateau	Valleys	2	
36	Margaret River Plateau	Jarrah Uplands	2	
37	Margaret River Plateau	Karri Uplands	2	
38	Margaret River Plateau	Jarrah Valleys	2	
39	Margaret River Plateau	Karri Valleys	2	
40	Lewin Naturalist Coast	Jarrah	2	
41	Lewin Naturalist Coast	Marri/Karri	2	
42	Lewin Naturalist Coast	Coast Heath	1	
43	Scott Coastal Plain	Uplands	2	
44	Scott Coastal Plain	Valleys / Swamps	2	
45	Redmond	Uplands	3	
46	Redmond	Valleys	2	
47	Unicup	Jarrah Uplands	3	
48	Unicup	Wandoo Uplands	3	
49	Unicup	Jarrah Valleys	3	
50	Unicup	Wandoo Valleys	3	
51	Unicup	Scrubland	3	
53	Darling Plateau	Wandoo Uplands South	3	
54	Darling Plateau	Wandoo Valleys South	3	

## Appendix 2b

Fauna Habitat ID	FDIS LAND SYSTEM	FDIS LANDSCAPE UNIT	SCORE	Origin
Grey Fantail				
1	Darling Plateau	Jarrah Uplands North	3	
2	Darling Plateau	Jarrah Uplands East	3	
3	Darling Plateau	Jarrah Uplands South	3	
4	Darling Plateau	Jarrah Uplands South East	3	
5	Darling Plateau	Karri Uplands	3	
6	Darling Plateau	Wandoo Uplands North	3	
7	Darling Plateau	Powder Bark Uplands	3	
8	Darling Plateau	Scarp	3	
9	Darling Plateau	Depression / Swamps North	3	
10	Darling Plateau	Depressions / Swamps South	3	
11	Darling Plateau	Depressions / Swamps East	3	
12	Darling Plateau	Depressions / Swamps South East	3	
13	Darling Plateau	Jarrah Valleys North	3	
14	Darling Plateau	Jarrah Valleys East	3	
15	Darling Plateau	Jarrah Valleys South	3	
16	Darling Plateau	Jarrah Valleys South East	3	
17	Darling Plateau	Karri Valleys	3	
18	Darling Plateau	Wandoo Valleys North	3	
19	Darling Plateau	Powder Bark Wandoo Valleys	3	
20	Darling Plateau	Granite Outcrops	3	
21	Various Systems	Esturies / Open Water	0	
22	Collie Plain	Uplands	3	
23	Collie Plain	Depressions / Swamps	3	
24	Dandaragan Plateau	Uplands	3	
25	Dandaragan Plateau	Valleys	3	
26	Swan Coastal Plain	Uplands	3	
27	Swan Coastal Plain	Valleys	3	
28	Southern Plains	Jarrah	3	
29	Southern Plains	Karri	3	
30	Southern Plains	Heath / Sedgeland	3	
31	South Coast Dunes	South Coast Dunes	3	
32	Blackwood Plateau	Jarrah Uplands	3	
33	Blackwood Plateau	Karri Uplands	3	
34	Blackwood Plateau	Depressions / Swamps	3	
35	Blackwood Plateau	Valleys	3	
36	Margaret River Plateau	Jarrah Uplands	3	
37	Margaret River Plateau	Karri Uplands	3	
38	Margaret River Plateau	Jarrah Valleys	3	
39	Margaret River Plateau	Karri Valleys	3	
40	Lewin Naturalist Coast	Jarrah	3	
41	Lewin Naturalist Coast	Marri/Karri	3	
42	Lewin Naturalist Coast	Coast Heath	3	
43	Scott Coastal Plain	Uplands	3	
44	Scott Coastal Plain	Valleys / Swamps	3	
45	Redmond	Uplands	3	
46	Redmond	Valleys	3	
47	Unicup	Jarrah Uplands	3	
48	Unicup	Wandoo Uplands	3	
49	Unicup	Jarrah Valleys	3	
50	Unicup	Wandoo Valleys	3	
51	Unicup	Scrubland	3	
53	Darling Plateau	Wandoo Uplands South	3	
54	Darling Plateau	Wandoo Valleys South	3	

## Appendix 2b

Fauna Habitat ID	FDIS LAND SYSTEM	FDIS LANDSCAPE UNIT	SCORE	Origin
Chestnut Quail-thrush				
1	Darling Plateau	Jarrah Uplands North	0	
2	Darling Plateau	Jarrah Uplands East	0	
3	Darling Plateau	Jarrah Uplands South	0	
4	Darling Plateau	Jarrah Uplands South East	0	
5	Darling Plateau	Karri Uplands	0	
6	Darling Plateau	Wandoo Uplands North	0	
7	Darling Plateau	Powder Bark Uplands	1	
8	Darling Plateau	Scarp	0	
9	Darling Plateau	Depression / Swamps North	0	
10	Darling Plateau	Depressions / Swamps South	0	
11	Darling Plateau	Depressions / Swamps East	0	
12	Darling Plateau	Depressions / Swamps South East	0	
13	Darling Plateau	Jarrah Valleys North	0	
14	Darling Plateau	Jarrah Valleys East	0	
15	Darling Plateau	Jarrah Valleys South	0	
16	Darling Plateau	Jarrah Valleys South East	0	
17	Darling Plateau	Karri Valleys	0	
18	Darling Plateau	Wandoo Valleys North	0	
19	Darling Plateau	Powder Bark Wandoo Valleys	1	
20	Darling Plateau	Granite Outcrops	0	
21	Various Systems	Esturies / Open Water	0	
22	Collie Plain	Uplands	0	
23	Collie Plain	Depressions / Swamps	0	
24	Dandaragan Plateau	Uplands	0	
25	Dandaragan Plateau	Valleys	0	
26	Swan Coastal Plain	Uplands	0	
27	Swan Coastal Plain	Valleys	0	
28	Southern Plains	Jarrah	0	
29	Southern Plains	Karri	0	
30	Southern Plains	Heath / Sedgeland	0	
31	South Coast Dunes	South Coast Dunes	0	
32	Blackwood Plateau	Jarrah Uplands	0	
33	Blackwood Plateau	Karri Uplands	0	
34	Blackwood Plateau	Depressions / Swamps	0	
35	Blackwood Plateau	Valleys	0	
36	Margaret River Plateau	Jarrah Uplands	0	
37	Margaret River Plateau	Karri Uplands	0	
38	Margaret River Plateau	Jarrah Valleys	0	
39	Margaret River Plateau	Karri Valleys	0	
40	Lewin Naturalist Coast	Jarrah	0	
41	Lewin Naturalist Coast	Marri/Karri	0	
42	Lewin Naturalist Coast	Coast Heath	0	
43	Scott Coastal Plain	Uplands	0	
44	Scott Coastal Plain	Valleys / Swamps	0	
45	Redmond	Uplands	0	
46	Redmond	Valleys	0	
47	Unicup	Jarrah Uplands	0	
48	Unicup	Wandoo Uplands	0	
49	Unicup	Jarrah Valleys	0	
50	Unicup	Wandoo Valleys	0	
51	Unicup	Scrubland	0	
53	Darling Plateau	Wandoo Uplands South	0	
54	Darling Plateau	Wandoo Valleys South	0	

## Appendix 2b

Fauna Habitat ID	FDIS LAND SYSTEM	FDIS LANDSCAPE UNIT	SCORE	Origin
Willie Wagtail				
1	Darling Plateau	Jarrah Uplands North	2	
2	Darling Plateau	Jarrah Uplands East	3	
3	Darling Plateau	Jarrah Uplands South	1	
4	Darling Plateau	Jarrah Uplands South East	2	
5	Darling Plateau	Karri Uplands	0	
6	Darling Plateau	Wandoo Uplands North	3	
7	Darling Plateau	Powder Bark Uplands	3	
8	Darling Plateau	Scarp	2	
9	Darling Plateau	Depression / Swamps North	3	
10	Darling Plateau	Depressions / Swamps South	1	
11	Darling Plateau	Depressions / Swamps East	1	
12	Darling Plateau	Depressions / Swamps South East	1	
13	Darling Plateau	Jarrah Valleys North	2	
14	Darling Plateau	Jarrah Valleys East	3	
15	Darling Plateau	Jarrah Valleys South	1	
16	Darling Plateau	Jarrah Valleys South East	3	
17	Darling Plateau	Karri Valleys	0	
18	Darling Plateau	Wandoo Valleys North	3	
19	Darling Plateau	Powder Bark Wandoo Valleys	3	
20	Darling Plateau	Granite Outcrops	1	
21	Various Systems	Esturies / Open Water	0	
22	Collie Plain	Uplands	2	
23	Collie Plain	Depressions / Swamps	1	
24	Dandaragan Plateau	Uplands	3	
25	Dandaragan Plateau	Valleys	3	
26	Swan Coastal Plain	Uplands	3	
27	Swan Coastal Plain	Valleys	3	
28	Southern Plains	Jarrah	2	
29	Southern Plains	Karri	0	
30	Southern Plains	Heath / Sedgeland	0	
31	South Coast Dunes	South Coast Dunes	2	
32	Blackwood Plateau	Jarrah Uplands	1	
33	Blackwood Plateau	Karri Uplands	0	
34	Blackwood Plateau	Depressions / Swamps	2	
35	Blackwood Plateau	Valleys	1	
36	Margaret River Plateau	Jarrah Uplands	1	
37	Margaret River Plateau	Karri Uplands	0	
38	Margaret River Plateau	Jarrah Valleys	1	
39	Margaret River Plateau	Karri Valleys	0	
40	Lewin Naturalist Coast	Jarrah	1	
41	Lewin Naturalist Coast	Marri/Karri	0	
42	Lewin Naturalist Coast	Coast Heath	3	
43	Scott Coastal Plain	Uplands	2	
44	Scott Coastal Plain	Valleys / Swamps	0	
45	Redmond	Uplands	3	
46	Redmond	Valleys	1	
47	Unicup	Jarrah Uplands	3	
48	Unicup	Wandoo Uplands	3	
49	Unicup	Jarrah Valleys	3	
50	Unicup	Wandoo Valleys	3	
51	Unicup	Scrubland	3	
53	Darling Plateau	Wandoo Uplands South	3	
54	Darling Plateau	Wandoo Valleys South	3	



## Appendix 2b

Fauna Habitat ID	FDIS LAND SYSTEM	FDIS LANDSCAPE UNIT	SCORE	Origin
White-browed Babbler				
1	Darling Plateau	Jarrah Uplands North	2	
2	Darling Plateau	Jarrah Uplands East	2	
3	Darling Plateau	Jarrah Uplands South	2	
4	Darling Plateau	Jarrah Uplands South East	2	
5	Darling Plateau	Karri Uplands	3	
6	Darling Plateau	Wandoo Uplands North	0	
7	Darling Plateau	Powder Bark Uplands	2	
8	Darling Plateau	Scarp	2	
9	Darling Plateau	Depression / Swamps North	2	
10	Darling Plateau	Depressions / Swamps South	0	
11	Darling Plateau	Depressions / Swamps East	0	
12	Darling Plateau	Depressions / Swamps South East	0	
13	Darling Plateau	Jarrah Valleys North	1	
14	Darling Plateau	Jarrah Valleys East	2	
15	Darling Plateau	Jarrah Valleys South	2	
16	Darling Plateau	Jarrah Valleys South East	2	
17	Darling Plateau	Karri Valleys	3	
18	Darling Plateau	Wandoo Valleys North	0	
19	Darling Plateau	Powder Bark Wandoo Valleys	2	
20	Darling Plateau	Granite Outcrops	0	
21	Various Systems	Esturies / Open Water	0	
22	Collie Plain	Uplands	2	
23	Collie Plain	Depressions / Swamps	2	
24	Dandaragan Plateau	Uplands	2	
25	Dandaragan Plateau	Valleys	2	
26	Swan Coastal Plain	Uplands	0	
27	Swan Coastal Plain	Valleys	0	
28	Southern Plains	Jarrah	3	
29	Southern Plains	Karri	3	
30	Southern Plains	Heath / Sedgeland	3	
31	South Coast Dunes	South Coast Dunes	2	
32	Blackwood Plateau	Jarrah Uplands	1	
33	Blackwood Plateau	Karri Uplands	1	
34	Blackwood Plateau	Depressions / Swamps	0	
35	Blackwood Plateau	Valleys	1	
36	Margaret River Plateau	Jarrah Uplands	0	
37	Margaret River Plateau	Karri Uplands	0	
38	Margaret River Plateau	Jarrah Valleys	0	
39	Margaret River Plateau	Karri Valleys	0	
40	Lewin Naturalist Coast	Jarrah	0	
41	Lewin Naturalist Coast	Marri/Karri	0	
42	Lewin Naturalist Coast	Coast Heath	0	
43	Scott Coastal Plain	Uplands	3	
44	Scott Coastal Plain	Valleys / Swamps	3	
45	Redmond	Uplands	3	
46	Redmond	Valleys	3	
47	Unicup	Jarrah Uplands	2	
48	Unicup	Wandoo Uplands	2	
49	Unicup	Jarrah Valleys	2	
50	Unicup	Wandoo Valleys	2	
51	Unicup	Scrubland	2	
53	Darling Plateau	Wandoo Uplands South	1	
54	Darling Plateau	Wandoo Valleys South	1	

## Appendix 2b

Fauna Habitat ID	FDIS LAND SYSTEM	FDIS LANDSCAPE UNIT	SCORE	Origin
Clamorous Reed-Warbler				
1	Darling Plateau	Jarrah Uplands North	0	
2	Darling Plateau	Jarrah Uplands East	0	
3	Darling Plateau	Jarrah Uplands South	0	
4	Darling Plateau	Jarrah Uplands South East	0	
5	Darling Plateau	Karri Uplands	0	
6	Darling Plateau	Wandoo Uplands North	0	
7	Darling Plateau	Powder Bark Uplands	0	
8	Darling Plateau	Scarp	0	
9	Darling Plateau	Depression / Swamps North	0	
10	Darling Plateau	Depressions / Swamps South	0	
11	Darling Plateau	Depressions / Swamps East	0	
12	Darling Plateau	Depressions / Swamps South East	0	
13	Darling Plateau	Jarrah Valleys North	0	
14	Darling Plateau	Jarrah Valleys East	0	
15	Darling Plateau	Jarrah Valleys South	0	
16	Darling Plateau	Jarrah Valleys South East	0	
17	Darling Plateau	Karri Valleys	0	
18	Darling Plateau	Wandoo Valleys North	0	
19	Darling Plateau	Powder Bark Wandoo Valleys	0	
20	Darling Plateau	Granite Outcrops	0	
21	Various Systems	Esturies / Open Water	2	
22	Collie Plain	Uplands	0	
23	Collie Plain	Depressions / Swamps	0	
24	Dandaragan Plateau	Uplands	0	
25	Dandaragan Plateau	Valleys	0	
26	Swan Coastal Plain	Uplands	0	
27	Swan Coastal Plain	Valleys	0	
28	Southern Plains	Jarrah	0	
29	Southern Plains	Karri	0	
30	Southern Plains	Heath / Sedgeland	0	
31	South Coast Dunes	South Coast Dunes	0	
32	Blackwood Plateau	Jarrah Uplands	0	
33	Blackwood Plateau	Karri Uplands	0	
34	Blackwood Plateau	Depressions / Swamps	0	
35	Blackwood Plateau	Valleys	0	
36	Margaret River Plateau	Jarrah Uplands	0	
37	Margaret River Plateau	Karri Uplands	0	
38	Margaret River Plateau	Jarrah Valleys	0	
39	Margaret River Plateau	Karri Valleys	0	
40	Lewin Naturalist Coast	Jarrah	0	
41	Lewin Naturalist Coast	Marri/Karri	0	
42	Lewin Naturalist Coast	Coast Heath	0	
43	Scott Coastal Plain	Uplands	0	
44	Scott Coastal Plain	Valleys / Swamps	0	
45	Redmond	Uplands	0	
46	Redmond	Valleys	0	
47	Unicup	Jarrah Uplands	0	
48	Unicup	Wandoo Uplands	0	
49	Unicup	Jarrah Valleys	0	
50	Unicup	Wandoo Valleys	0	
51	Unicup	Scrubland	0	
53	Darling Plateau	Wandoo Uplands South	0	
54	Darling Plateau	Wandoo Valleys South	0	

## Appendix 2b

Fauna Habitat ID	FDIS LAND SYSTEM	FDIS LANDSCAPE UNIT	SCORE	Origin
Little Grassbird				
1	Darling Plateau	Jarrah Uplands North	0	
2	Darling Plateau	Jarrah Uplands East	0	
3	Darling Plateau	Jarrah Uplands South	0	
4	Darling Plateau	Jarrah Uplands South East	0	
5	Darling Plateau	Karri Uplands	0	
6	Darling Plateau	Wandoo Uplands North	0	
7	Darling Plateau	Powder Bark Uplands	0	
8	Darling Plateau	Scarp	0	
9	Darling Plateau	Depression / Swamps North	0	
10	Darling Plateau	Depressions / Swamps South	0	
11	Darling Plateau	Depressions / Swamps East	0	
12	Darling Plateau	Depressions / Swamps South East	0	
13	Darling Plateau	Jarrah Valleys North	0	
14	Darling Plateau	Jarrah Valleys East	0	
15	Darling Plateau	Jarrah Valleys South	0	
16	Darling Plateau	Jarrah Valleys South East	0	
17	Darling Plateau	Karri Valleys	0	
18	Darling Plateau	Wandoo Valleys North	0	
19	Darling Plateau	Powder Bark Wandoo Valleys	0	
20	Darling Plateau	Granite Outcrops	0	
21	Various Systems	Esturies / Open Water	2	
22	Collie Plain	Uplands	0	
23	Collie Plain	Depressions / Swamps	0	
24	Dandaragan Plateau	Uplands	0	
25	Dandaragan Plateau	Valleys	0	
26	Swan Coastal Plain	Uplands	0	
27	Swan Coastal Plain	Valleys	0	
28	Southern Plains	Jarrah	0	
29	Southern Plains	Karri	0	
30	Southern Plains	Heath / Sedgeland	0	
31	South Coast Dunes	South Coast Dunes	0	
32	Blackwood Plateau	Jarrah Uplands	0	
33	Blackwood Plateau	Karri Uplands	0	
34	Blackwood Plateau	Depressions / Swamps	0	
35	Blackwood Plateau	Valleys	0	
36	Margaret River Plateau	Jarrah Uplands	0	
37	Margaret River Plateau	Karri Uplands	0	
38	Margaret River Plateau	Jarrah Valleys	0	
39	Margaret River Plateau	Karri Valleys	0	
40	Lewin Naturalist Coast	Jarrah	0	
41	Lewin Naturalist Coast	Marri/Karri	0	
42	Lewin Naturalist Coast	Coast Heath	0	
43	Scott Coastal Plain	Uplands	0	
44	Scott Coastal Plain	Valleys / Swamps	0	
45	Redmond	Uplands	0	
46	Redmond	Valleys	0	
47	Unicup	Jarrah Uplands	0	
48	Unicup	Wandoo Uplands	0	
49	Unicup	Jarrah Valleys	0	
50	Unicup	Wandoo Valleys	0	
51	Unicup	Scrubland	0	
53	Darling Plateau	Wandoo Uplands South	0	
54	Darling Plateau	Wandoo Valleys South	0	

## Appendix 2b

Fauna Habitat ID	FDIS LAND SYSTEM	FDIS LANDSCAPE UNIT	SCORE	Origin
Rufous Songlark				
1	Darling Plateau	Jarrah Uplands North	0	
2	Darling Plateau	Jarrah Uplands East	0	
3	Darling Plateau	Jarrah Uplands South	0	
4	Darling Plateau	Jarrah Uplands South East	1	
5	Darling Plateau	Karri Uplands	0	
6	Darling Plateau	Wandoo Uplands North	1	
7	Darling Plateau	Powder Bark Uplands	1	
8	Darling Plateau	Scarp	0	
9	Darling Plateau	Depression / Swamps North	0	
10	Darling Plateau	Depressions / Swamps South	0	
11	Darling Plateau	Depressions / Swamps East	1	
12	Darling Plateau	Depressions / Swamps South East	1	
13	Darling Plateau	Jarrah Valleys North	0	
14	Darling Plateau	Jarrah Valleys East	0	
15	Darling Plateau	Jarrah Valleys South	0	
16	Darling Plateau	Jarrah Valleys South East	1	
17	Darling Plateau	Karri Valleys	0	
18	Darling Plateau	Wandoo Valleys North	1	
19	Darling Plateau	Powder Bark Wandoo Valleys	1	
20	Darling Plateau	Granite Outcrops	0	
21	Various Systems	Esturies / Open Water	0	
22	Collie Plain	Uplands	0	
23	Collie Plain	Depressions / Swamps	0	
24	Dandaragan Plateau	Uplands	1	
25	Dandaragan Plateau	Valleys	1	
26	Swan Coastal Plain	Uplands	1	
27	Swan Coastal Plain	Valleys	1	
28	Southern Plains	Jarrah	0	
29	Southern Plains	Karri	0	
30	Southern Plains	Heath / Sedgeland	0	
31	South Coast Dunes	South Coast Dunes	0	
32	Blackwood Plateau	Jarrah Uplands	0	
33	Blackwood Plateau	Karri Uplands	0	
34	Blackwood Plateau	Depressions / Swamps	0	
35	Blackwood Plateau	Valleys	0	
36	Margaret River Plateau	Jarrah Uplands	0	
37	Margaret River Plateau	Karri Uplands	0	
38	Margaret River Plateau	Jarrah Valleys	0	
39	Margaret River Plateau	Karri Valleys	0	
40	Lewin Naturalist Coast	Jarrah	0	
41	Lewin Naturalist Coast	Marri/Karri	0	
42	Lewin Naturalist Coast	Coast Heath	0	
43	Scott Coastal Plain	Uplands	0	
44	Scott Coastal Plain	Valleys / Swamps	0	
45	Redmond	Uplands	0	
46	Redmond	Valleys	0	
47	Unicup	Jarrah Uplands	0	
48	Unicup	Wandoo Uplands	1	
49	Unicup	Jarrah Valleys	0	
50	Unicup	Wandoo Valleys	1	
51	Unicup	Scrubland	1	
53	Darling Plateau	Wandoo Uplands South	1	
54	Darling Plateau	Wandoo Valleys South	1	

## Appendix 2b

Fauna Habitat ID	FDIS LAND SYSTEM	FDIS LANDSCAPE UNIT	SCORE	Origin
Brown Songlark				
1	Darling Plateau	Jarrah Uplands North	0	
2	Darling Plateau	Jarrah Uplands East	0	
3	Darling Plateau	Jarrah Uplands South	0	
4	Darling Plateau	Jarrah Uplands South East	1	
5	Darling Plateau	Karri Uplands	0	
6	Darling Plateau	Wandoo Uplands North	1	
7	Darling Plateau	Powder Bark Uplands	1	
8	Darling Plateau	Scarp	0	
9	Darling Plateau	Depression / Swamps North	0	
10	Darling Plateau	Depressions / Swamps South	0	
11	Darling Plateau	Depressions / Swamps East	1	
12	Darling Plateau	Depressions / Swamps South East	1	
13	Darling Plateau	Jarrah Valleys North	0	
14	Darling Plateau	Jarrah Valleys East	0	
15	Darling Plateau	Jarrah Valleys South	0	
16	Darling Plateau	Jarrah Valleys South East	1	
17	Darling Plateau	Karri Valleys	0	
18	Darling Plateau	Wandoo Valleys North	1	
19	Darling Plateau	Powder Bark Wandoo Valleys	1	
20	Darling Plateau	Granite Outcrops	0	
21	Various Systems	Esturies / Open Water	0	
22	Collie Plain	Uplands	0	
23	Collie Plain	Depressions / Swamps	0	
24	Dandaragan Plateau	Uplands	1	
25	Dandaragan Plateau	Valleys	1	
26	Swan Coastal Plain	Uplands	1	
27	Swan Coastal Plain	Valleys	1	
28	Southern Plains	Jarrah	0	
29	Southern Plains	Karri	0	
30	Southern Plains	Heath / Sedgeland	0	
31	South Coast Dunes	South Coast Dunes	0	
32	Blackwood Plateau	Jarrah Uplands	0	
33	Blackwood Plateau	Karri Uplands	0	
34	Blackwood Plateau	Depressions / Swamps	0	
35	Blackwood Plateau	Valleys	0	
36	Margaret River Plateau	Jarrah Uplands	0	
37	Margaret River Plateau	Karri Uplands	0	
38	Margaret River Plateau	Jarrah Valleys	0	
39	Margaret River Plateau	Karri Valleys	0	
40	Lewin Naturalist Coast	Jarrah	0	
41	Lewin Naturalist Coast	Marri/Karri	0	
42	Lewin Naturalist Coast	Coast Heath	0	
43	Scott Coastal Plain	Uplands	0	
44	Scott Coastal Plain	Valleys / Swamps	0	
45	Redmond	Uplands	0	
46	Redmond	Valleys	0	
47	Unicup	Jarrah Uplands	0	
48	Unicup	Wandoo Uplands	1	
49	Unicup	Jarrah Valleys	0	
50	Unicup	Wandoo Valleys	1	
51	Unicup	Scrubland	1	
53	Darling Plateau	Wandoo Uplands South	1	
54	Darling Plateau	Wandoo Valleys South	1	

## Appendix 2b

Fauna Habitat ID	FDIS LAND SYSTEM	FDIS LANDSCAPE UNIT	SCORE	Origin
Spendid Fairy-wren				
1	Darling Plateau	Jarrah Uplands North	3	
2	Darling Plateau	Jarrah Uplands East	3	
3	Darling Plateau	Jarrah Uplands South	2	
4	Darling Plateau	Jarrah Uplands South East	3	
5	Darling Plateau	Karri Uplands	0	
6	Darling Plateau	Wandoo Uplands North	3	
7	Darling Plateau	Powder Bark Uplands	2	
8	Darling Plateau	Scarp	3	
9	Darling Plateau	Depression / Swamps North	3	
10	Darling Plateau	Depressions / Swamps South	1	
11	Darling Plateau	Depressions / Swamps East	3	
12	Darling Plateau	Depressions / Swamps South East	3	
13	Darling Plateau	Jarrah Valleys North	3	
14	Darling Plateau	Jarrah Valleys East	3	
15	Darling Plateau	Jarrah Valleys South	1	
16	Darling Plateau	Jarrah Valleys South East	3	
17	Darling Plateau	Karri Valleys	0	
18	Darling Plateau	Wandoo Valleys North	3	
19	Darling Plateau	Powder Bark Wandoo Valleys	2	
20	Darling Plateau	Granite Outcrops	2	
21	Various Systems	Esturies / Open Water	0	
22	Collie Plain	Uplands	3	
23	Collie Plain	Depressions / Swamps	3	
24	Dandaragan Plateau	Uplands	3	
25	Dandaragan Plateau	Valleys	3	
26	Swan Coastal Plain	Uplands	3	
27	Swan Coastal Plain	Valleys	3	
28	Southern Plains	Jarrah	3	
29	Southern Plains	Karri	2	
30	Southern Plains	Heath / Sedgeland	3	
31	South Coast Dunes	South Coast Dunes	3	
32	Blackwood Plateau	Jarrah Uplands	2	
33	Blackwood Plateau	Karri Uplands	2	
34	Blackwood Plateau	Depressions / Swamps	3	
35	Blackwood Plateau	Valleys	3	
36	Margaret River Plateau	Jarrah Uplands	2	
37	Margaret River Plateau	Karri Uplands	2	
38	Margaret River Plateau	Jarrah Valleys	3	
39	Margaret River Plateau	Karri Valleys	2	
40	Lewin Naturalist Coast	Jarrah	2	
41	Lewin Naturalist Coast	Marri/Karri	2	
42	Lewin Naturalist Coast	Coast Heath	3	
43	Scott Coastal Plain	Uplands	3	
44	Scott Coastal Plain	Valleys / Swamps	2	
45	Redmond	Uplands	3	
46	Redmond	Valleys	3	
47	Unicup	Jarrah Uplands	3	
48	Unicup	Wandoo Uplands	3	
49	Unicup	Jarrah Valleys	3	
50	Unicup	Wandoo Valleys	3	
51	Unicup	Scrubland	3	
53	Darling Plateau	Wandoo Uplands South	3	
54	Darling Plateau	Wandoo Valleys South	3	

## Appendix 2b

Fauna Habitat ID	FDIS LAND SYSTEM	FDIS LANDSCAPE UNIT	SCORE	Origin
Blue-breasted Fairy-wren				
1	Darling Plateau	Jarrah Uplands North	0	
2	Darling Plateau	Jarrah Uplands East	0	
3	Darling Plateau	Jarrah Uplands South	0	
4	Darling Plateau	Jarrah Uplands South East	0	
5	Darling Plateau	Karri Uplands	0	
6	Darling Plateau	Wandoo Uplands North	1	
7	Darling Plateau	Powder Bark Uplands	1	
8	Darling Plateau	Scarp	0	
9	Darling Plateau	Depression / Swamps North	0	
10	Darling Plateau	Depressions / Swamps South	0	
11	Darling Plateau	Depressions / Swamps East	1	
12	Darling Plateau	Depressions / Swamps South East	0	
13	Darling Plateau	Jarrah Valleys North	0	
14	Darling Plateau	Jarrah Valleys East	0	
15	Darling Plateau	Jarrah Valleys South	0	
16	Darling Plateau	Jarrah Valleys South East	0	
17	Darling Plateau	Karri Valleys	0	
18	Darling Plateau	Wandoo Valleys North	1	
19	Darling Plateau	Powder Bark Wandoo Valleys	1	
20	Darling Plateau	Granite Outcrops	0	
21	Various Systems	Esturies / Open Water	0	
22	Collie Plain	Uplands	0	
23	Collie Plain	Depressions / Swamps	0	
24	Dandaragan Plateau	Uplands	1	
25	Dandaragan Plateau	Valleys	1	
26	Swan Coastal Plain	Uplands	1	
27	Swan Coastal Plain	Valleys	1	
28	Southern Plains	Jarrah	0	
29	Southern Plains	Karri	0	
30	Southern Plains	Heath / Sedgeland	0	
31	South Coast Dunes	South Coast Dunes	0	
32	Blackwood Plateau	Jarrah Uplands	0	
33	Blackwood Plateau	Karri Uplands	0	
34	Blackwood Plateau	Depressions / Swamps	0	
35	Blackwood Plateau	Valleys	0	
36	Margaret River Plateau	Jarrah Uplands	0	
37	Margaret River Plateau	Karri Uplands	0	
38	Margaret River Plateau	Jarrah Valleys	0	
39	Margaret River Plateau	Karri Valleys	0	
40	Lewin Naturalist Coast	Jarrah	0	
41	Lewin Naturalist Coast	Marri/Karri	0	
42	Lewin Naturalist Coast	Coast Heath	0	
43	Scott Coastal Plain	Uplands	0	
44	Scott Coastal Plain	Valleys / Swamps	0	
45	Redmond	Uplands	0	
46	Redmond	Valleys	0	
47	Unicup	Jarrah Uplands	0	
48	Unicup	Wandoo Uplands	0	
49	Unicup	Jarrah Valleys	0	
50	Unicup	Wandoo Valleys	0	
51	Unicup	Scrubland	0	
53	Darling Plateau	Wandoo Uplands South	1	
54	Darling Plateau	Wandoo Valleys South	1	

## Appendix 2b

Fauna Habitat ID	FDIS LAND SYSTEM	FDIS LANDSCAPE UNIT	SCORE	Origin
Red-winged Fairy-wren				
1	Darling Plateau	Jarrah Uplands North	1	
2	Darling Plateau	Jarrah Uplands East	1	
3	Darling Plateau	Jarrah Uplands South	3	
4	Darling Plateau	Jarrah Uplands South East	2	
5	Darling Plateau	Karri Uplands	3	
6	Darling Plateau	Wandoo Uplands North	0	
7	Darling Plateau	Powder Bark Uplands	0	
8	Darling Plateau	Scarp	2	
9	Darling Plateau	Depression / Swamps North	1	
10	Darling Plateau	Depressions / Swamps South	3	
11	Darling Plateau	Depressions / Swamps East	1	
12	Darling Plateau	Depressions / Swamps South East	3	
13	Darling Plateau	Jarrah Valleys North	2	
14	Darling Plateau	Jarrah Valleys East	0	
15	Darling Plateau	Jarrah Valleys South	3	
16	Darling Plateau	Jarrah Valleys South East	2	
17	Darling Plateau	Karri Valleys	3	
18	Darling Plateau	Wandoo Valleys North	0	
19	Darling Plateau	Powder Bark Wandoo Valleys	0	
20	Darling Plateau	Granite Outcrops	2	
21	Various Systems	Esturies / Open Water	0	
22	Collie Plain	Uplands	1	
23	Collie Plain	Depressions / Swamps	1	
24	Dandaragan Plateau	Uplands	1	
25	Dandaragan Plateau	Valleys	1	
26	Swan Coastal Plain	Uplands	2	
27	Swan Coastal Plain	Valleys	2	
28	Southern Plains	Jarrah	2	
29	Southern Plains	Karri	3	
30	Southern Plains	Heath / Sedgeland	3	
31	South Coast Dunes	South Coast Dunes	3	
32	Blackwood Plateau	Jarrah Uplands	2	
33	Blackwood Plateau	Karri Uplands	3	
34	Blackwood Plateau	Depressions / Swamps	2	
35	Blackwood Plateau	Valleys	3	
36	Margaret River Plateau	Jarrah Uplands	2	
37	Margaret River Plateau	Karri Uplands	3	
38	Margaret River Plateau	Jarrah Valleys	3	
39	Margaret River Plateau	Karri Valleys	3	
40	Lewin Naturalist Coast	Jarrah	2	
41	Lewin Naturalist Coast	Marri/Karri	3	
42	Lewin Naturalist Coast	Coast Heath	3	
43	Scott Coastal Plain	Uplands	2	
44	Scott Coastal Plain	Valleys / Swamps	2	
45	Redmond	Uplands	2	
46	Redmond	Valleys	3	
47	Unicup	Jarrah Uplands	1	
48	Unicup	Wandoo Uplands	0	
49	Unicup	Jarrah Valleys	2	
50	Unicup	Wandoo Valleys	0	
51	Unicup	Scrubland	2	
53	Darling Plateau	Wandoo Uplands South	1	
54	Darling Plateau	Wandoo Valleys South	2	



## Appendix 2b

Fauna Habitat ID	FDIS LAND SYSTEM	FDIS LANDSCAPE UNIT	SCORE	Origin
White-winged Fairy-wren				
1	Darling Plateau	Jarrah Uplands North	0	
2	Darling Plateau	Jarrah Uplands East	0	
3	Darling Plateau	Jarrah Uplands South	0	
4	Darling Plateau	Jarrah Uplands South East	0	
5	Darling Plateau	Karri Uplands	0	
6	Darling Plateau	Wandoo Uplands North	1	
7	Darling Plateau	Powder Bark Uplands	1	
8	Darling Plateau	Scarp	0	
9	Darling Plateau	Depression / Swamps North	0	
10	Darling Plateau	Depressions / Swamps South	0	
11	Darling Plateau	Depressions / Swamps East	0	
12	Darling Plateau	Depressions / Swamps South East	0	
13	Darling Plateau	Jarrah Valleys North	0	
14	Darling Plateau	Jarrah Valleys East	0	
15	Darling Plateau	Jarrah Valleys South	0	
16	Darling Plateau	Jarrah Valleys South East	0	
17	Darling Plateau	Karri Valleys	0	
18	Darling Plateau	Wandoo Valleys North	1	
19	Darling Plateau	Powder Bark Wandoo Valleys	1	
20	Darling Plateau	Granite Outcrops	0	
21	Various Systems	Esturies / Open Water	0	
22	Collie Plain	Uplands	0	
23	Collie Plain	Depressions / Swamps	0	
24	Dandaragan Plateau	Uplands	1	
25	Dandaragan Plateau	Valleys	1	
26	Swan Coastal Plain	Uplands	1	
27	Swan Coastal Plain	Valleys	1	
28	Southern Plains	Jarrah	0	
29	Southern Plains	Karri	0	
30	Southern Plains	Heath / Sedgeland	0	
31	South Coast Dunes	South Coast Dunes	0	
32	Blackwood Plateau	Jarrah Uplands	0	
33	Blackwood Plateau	Karri Uplands	0	
34	Blackwood Plateau	Depressions / Swamps	0	
35	Blackwood Plateau	Valleys	0	
36	Margaret River Plateau	Jarrah Uplands	0	
37	Margaret River Plateau	Karri Uplands	0	
38	Margaret River Plateau	Jarrah Valleys	0	
39	Margaret River Plateau	Karri Valleys	0	
40	Lewin Naturalist Coast	Jarrah	0	
41	Lewin Naturalist Coast	Marri/Karri	0	
42	Lewin Naturalist Coast	Coast Heath	0	
43	Scott Coastal Plain	Uplands	0	
44	Scott Coastal Plain	Valleys / Swamps	0	
45	Redmond	Uplands	0	
46	Redmond	Valleys	0	
47	Unicup	Jarrah Uplands	0	
48	Unicup	Wandoo Uplands	0	
49	Unicup	Jarrah Valleys	0	
50	Unicup	Wandoo Valleys	0	
51	Unicup	Scrubland	0	
53	Darling Plateau	Wandoo Uplands South	0	
54	Darling Plateau	Wandoo Valleys South	0	

## Appendix 2b

Fauna Habitat ID	FDIS LAND SYSTEM	FDIS LANDSCAPE UNIT	SCORE	Origin
Southern Emu-wren				
1	Darling Plateau	Jarrah Uplands North	0	
2	Darling Plateau	Jarrah Uplands East	0	
3	Darling Plateau	Jarrah Uplands South	0	
4	Darling Plateau	Jarrah Uplands South East	0	
5	Darling Plateau	Karri Uplands	0	
6	Darling Plateau	Wandoo Uplands North	0	
7	Darling Plateau	Powder Bark Uplands	0	
8	Darling Plateau	Scarp	0	
9	Darling Plateau	Depression / Swamps North	1	
10	Darling Plateau	Depressions / Swamps South	2	
11	Darling Plateau	Depressions / Swamps East	0	
12	Darling Plateau	Depressions / Swamps South East	1	
13	Darling Plateau	Jarrah Valleys North	1	
14	Darling Plateau	Jarrah Valleys East	0	
15	Darling Plateau	Jarrah Valleys South	2	
16	Darling Plateau	Jarrah Valleys South East	1	
17	Darling Plateau	Karri Valleys	1	
18	Darling Plateau	Wandoo Valleys North	0	
19	Darling Plateau	Powder Bark Wandoo Valleys	0	
20	Darling Plateau	Granite Outcrops	0	
21	Various Systems	Esturies / Open Water	0	
22	Collie Plain	Uplands	0	
23	Collie Plain	Depressions / Swamps	0	
24	Dandaragan Plateau	Uplands	0	
25	Dandaragan Plateau	Valleys	0	
26	Swan Coastal Plain	Uplands	0	
27	Swan Coastal Plain	Valleys	2	
28	Southern Plains	Jarrah	0	
29	Southern Plains	Karri	0	
30	Southern Plains	Heath / Sedgeland	3	
31	South Coast Dunes	South Coast Dunes	3	
32	Blackwood Plateau	Jarrah Uplands	0	
33	Blackwood Plateau	Karri Uplands	0	
34	Blackwood Plateau	Depressions / Swamps	0	
35	Blackwood Plateau	Valleys	2	
36	Margaret River Plateau	Jarrah Uplands	0	
37	Margaret River Plateau	Karri Uplands	0	
38	Margaret River Plateau	Jarrah Valleys	2	
39	Margaret River Plateau	Karri Valleys	0	
40	Lewin Naturalist Coast	Jarrah	0	
41	Lewin Naturalist Coast	Marri/Karri	0	
42	Lewin Naturalist Coast	Coast Heath	3	
43	Scott Coastal Plain	Uplands	0	
44	Scott Coastal Plain	Valleys / Swamps	3	
45	Redmond	Uplands	0	
46	Redmond	Valleys	2	
47	Unicup	Jarrah Uplands	0	
48	Unicup	Wandoo Uplands	0	
49	Unicup	Jarrah Valleys	0	
50	Unicup	Wandoo Valleys	0	
51	Unicup	Scrubland	0	
53	Darling Plateau	Wandoo Uplands South	0	
54	Darling Plateau	Wandoo Valleys South	0	

## Appendix 2b

Fauna Habitat ID	FDIS LAND SYSTEM	FDIS LANDSCAPE UNIT	SCORE	Origin
White-browed Scrubwren				
1	Darling Plateau	Jarrah Uplands North	2	
2	Darling Plateau	Jarrah Uplands East	0	
3	Darling Plateau	Jarrah Uplands South	3	
4	Darling Plateau	Jarrah Uplands South East	2	
5	Darling Plateau	Karri Uplands	3	
6	Darling Plateau	Wandoo Uplands North	0	
7	Darling Plateau	Powder Bark Uplands	0	
8	Darling Plateau	Scarp	2	
9	Darling Plateau	Depression / Swamps North	3	
10	Darling Plateau	Depressions / Swamps South	3	
11	Darling Plateau	Depressions / Swamps East	0	
12	Darling Plateau	Depressions / Swamps South East	3	
13	Darling Plateau	Jarrah Valleys North	3	
14	Darling Plateau	Jarrah Valleys East	1	
15	Darling Plateau	Jarrah Valleys South	3	
16	Darling Plateau	Jarrah Valleys South East	3	
17	Darling Plateau	Karri Valleys	3	
18	Darling Plateau	Wandoo Valleys North	1	
19	Darling Plateau	Powder Bark Wandoo Valleys	0	
20	Darling Plateau	Granite Outcrops	3	
21	Various Systems	Esturies / Open Water	0	
22	Collie Plain	Uplands	2	
23	Collie Plain	Depressions / Swamps	2	
24	Dandaragan Plateau	Uplands	1	
25	Dandaragan Plateau	Valleys	1	
26	Swan Coastal Plain	Uplands	3	
27	Swan Coastal Plain	Valleys	3	
28	Southern Plains	Jarrah	3	
29	Southern Plains	Karri	3	
30	Southern Plains	Heath / Sedgeland	3	
31	South Coast Dunes	South Coast Dunes	3	
32	Blackwood Plateau	Jarrah Uplands	3	
33	Blackwood Plateau	Karri Uplands	3	
34	Blackwood Plateau	Depressions / Swamps	3	
35	Blackwood Plateau	Valleys	3	
36	Margaret River Plateau	Jarrah Uplands	3	
37	Margaret River Plateau	Karri Uplands	3	
38	Margaret River Plateau	Jarrah Valleys	3	
39	Margaret River Plateau	Karri Valleys	3	
40	Lewin Naturalist Coast	Jarrah	3	
41	Lewin Naturalist Coast	Marri/Karri	3	
42	Lewin Naturalist Coast	Coast Heath	3	
43	Scott Coastal Plain	Uplands	3	
44	Scott Coastal Plain	Valleys / Swamps	3	
45	Redmond	Uplands	3	
46	Redmond	Valleys	3	
47	Unicup	Jarrah Uplands	0	
48	Unicup	Wandoo Uplands	1	
49	Unicup	Jarrah Valleys	1	
50	Unicup	Wandoo Valleys	1	
51	Unicup	Scrubland	1	
53	Darling Plateau	Wandoo Uplands South	0	
54	Darling Plateau	Wandoo Valleys South	1	

## Appendix 2b

Fauna Habitat ID	FDIS LAND SYSTEM	FDIS LANDSCAPE UNIT	SCORE	Origin
Calamanthus or Rufous Fieldwren				
1	Darling Plateau	Jarrah Uplands North	0	
2	Darling Plateau	Jarrah Uplands East	0	
3	Darling Plateau	Jarrah Uplands South	0	
4	Darling Plateau	Jarrah Uplands South East	0	
5	Darling Plateau	Karri Uplands	0	
6	Darling Plateau	Wandoo Uplands North	1	
7	Darling Plateau	Powder Bark Uplands	1	
8	Darling Plateau	Scarp	0	
9	Darling Plateau	Depression / Swamps North	0	
10	Darling Plateau	Depressions / Swamps South	0	
11	Darling Plateau	Depressions / Swamps East	1	
12	Darling Plateau	Depressions / Swamps South East	0	
13	Darling Plateau	Jarrah Valleys North	0	
14	Darling Plateau	Jarrah Valleys East	0	
15	Darling Plateau	Jarrah Valleys South	0	
16	Darling Plateau	Jarrah Valleys South East	1	
17	Darling Plateau	Karri Valleys	0	
18	Darling Plateau	Wandoo Valleys North	1	
19	Darling Plateau	Powder Bark Wandoo Valleys	1	
20	Darling Plateau	Granite Outcrops	0	
21	Various Systems	Esturies / Open Water	0	
22	Collie Plain	Uplands	0	
23	Collie Plain	Depressions / Swamps	0	
24	Dandaragan Plateau	Uplands	1	
25	Dandaragan Plateau	Valleys	1	
26	Swan Coastal Plain	Uplands	1	
27	Swan Coastal Plain	Valleys	1	
28	Southern Plains	Jarrah	0	
29	Southern Plains	Karri	0	
30	Southern Plains	Heath / Sedgeland	0	
31	South Coast Dunes	South Coast Dunes	0	
32	Blackwood Plateau	Jarrah Uplands	0	
33	Blackwood Plateau	Karri Uplands	0	
34	Blackwood Plateau	Depressions / Swamps	0	
35	Blackwood Plateau	Valleys	0	
36	Margaret River Plateau	Jarrah Uplands	0	
37	Margaret River Plateau	Karri Uplands	0	
38	Margaret River Plateau	Jarrah Valleys	0	
39	Margaret River Plateau	Karri Valleys	0	
40	Lewin Naturalist Coast	Jarrah	0	
41	Lewin Naturalist Coast	Marri/Karri	0	
42	Lewin Naturalist Coast	Coast Heath	0	
43	Scott Coastal Plain	Uplands	0	
44	Scott Coastal Plain	Valleys / Swamps	0	
45	Redmond	Uplands	0	
46	Redmond	Valleys	0	
47	Unicup	Jarrah Uplands	0	
48	Unicup	Wandoo Uplands	0	
49	Unicup	Jarrah Valleys	0	
50	Unicup	Wandoo Valleys	0	
51	Unicup	Scrubland	0	
53	Darling Plateau	Wandoo Uplands South	1	
54	Darling Plateau	Wandoo Valleys South	1	

## Appendix 2b

Fauna Habitat ID	FDIS LAND SYSTEM	FDIS LANDSCAPE UNIT	SCORE	Origin
Weebill				
1	Darling Plateau	Jarrah Uplands North	2	
2	Darling Plateau	Jarrah Uplands East	2	
3	Darling Plateau	Jarrah Uplands South	1	
4	Darling Plateau	Jarrah Uplands South East	2	
5	Darling Plateau	Karri Uplands	0	
6	Darling Plateau	Wandoo Uplands North	2	
7	Darling Plateau	Powder Bark Uplands	3	
8	Darling Plateau	Scarp	2	
9	Darling Plateau	Depression / Swamps North	2	
10	Darling Plateau	Depressions / Swamps South	0	
11	Darling Plateau	Depressions / Swamps East	1	
12	Darling Plateau	Depressions / Swamps South East	1	
13	Darling Plateau	Jarrah Valleys North	2	
14	Darling Plateau	Jarrah Valleys East	2	
15	Darling Plateau	Jarrah Valleys South	1	
16	Darling Plateau	Jarrah Valleys South East	2	
17	Darling Plateau	Karri Valleys	0	
18	Darling Plateau	Wandoo Valleys North	2	
19	Darling Plateau	Powder Bark Wandoo Valleys	3	
20	Darling Plateau	Granite Outcrops	0	
21	Various Systems	Esturies / Open Water	0	
22	Collie Plain	Uplands	2	
23	Collie Plain	Depressions / Swamps	2	
24	Dandaragan Plateau	Uplands	3	
25	Dandaragan Plateau	Valleys	3	
26	Swan Coastal Plain	Uplands	0	
27	Swan Coastal Plain	Valleys	0	
28	Southern Plains	Jarrah	1	
29	Southern Plains	Karri	0	
30	Southern Plains	Heath / Sedgeland	1	
31	South Coast Dunes	South Coast Dunes	0	
32	Blackwood Plateau	Jarrah Uplands	0	
33	Blackwood Plateau	Karri Uplands	0	
34	Blackwood Plateau	Depressions / Swamps	1	
35	Blackwood Plateau	Valleys	1	
36	Margaret River Plateau	Jarrah Uplands	1	
37	Margaret River Plateau	Karri Uplands	0	
38	Margaret River Plateau	Jarrah Valleys	1	
39	Margaret River Plateau	Karri Valleys	0	
40	Lewin Naturalist Coast	Jarrah	1	
41	Lewin Naturalist Coast	Marri/Karri	0	
42	Lewin Naturalist Coast	Coast Heath	0	
43	Scott Coastal Plain	Uplands	1	
44	Scott Coastal Plain	Valleys / Swamps	1	
45	Redmond	Uplands	3	
46	Redmond	Valleys	1	
47	Unicup	Jarrah Uplands	3	
48	Unicup	Wandoo Uplands	3	
49	Unicup	Jarrah Valleys	3	
50	Unicup	Wandoo Valleys	3	
51	Unicup	Scrubland	3	
53	Darling Plateau	Wandoo Uplands South	2	
54	Darling Plateau	Wandoo Valleys South	2	

## Appendix 2b

Fauna Habitat ID	FDIS LAND SYSTEM	FDIS LANDSCAPE UNIT	SCORE	Origin
Western Gerygoyne				
1	Darling Plateau	Jarrah Uplands North	2	
2	Darling Plateau	Jarrah Uplands East	2	
3	Darling Plateau	Jarrah Uplands South	2	
4	Darling Plateau	Jarrah Uplands South East	2	
5	Darling Plateau	Karri Uplands	1	
6	Darling Plateau	Wandoo Uplands North	2	
7	Darling Plateau	Powder Bark Uplands	2	
8	Darling Plateau	Scarp	3	
9	Darling Plateau	Depression / Swamps North	2	
10	Darling Plateau	Depressions / Swamps South	2	
11	Darling Plateau	Depressions / Swamps East	2	
12	Darling Plateau	Depressions / Swamps South East	2	
13	Darling Plateau	Jarrah Valleys North	3	
14	Darling Plateau	Jarrah Valleys East	2	
15	Darling Plateau	Jarrah Valleys South	3	
16	Darling Plateau	Jarrah Valleys South East	3	
17	Darling Plateau	Karri Valleys	3	
18	Darling Plateau	Wandoo Valleys North	2	
19	Darling Plateau	Powder Bark Wandoo Valleys	2	
20	Darling Plateau	Granite Outcrops	3	
21	Various Systems	Esturies / Open Water	0	
22	Collie Plain	Uplands	3	
23	Collie Plain	Depressions / Swamps	3	
24	Dandaragan Plateau	Uplands	3	
25	Dandaragan Plateau	Valleys	3	
26	Swan Coastal Plain	Uplands	3	
27	Swan Coastal Plain	Valleys	3	
28	Southern Plains	Jarrah	2	
29	Southern Plains	Karri	1	
30	Southern Plains	Heath / Sedgeland	2	
31	South Coast Dunes	South Coast Dunes	1	
32	Blackwood Plateau	Jarrah Uplands	3	
33	Blackwood Plateau	Karri Uplands	3	
34	Blackwood Plateau	Depressions / Swamps	3	
35	Blackwood Plateau	Valleys	3	
36	Margaret River Plateau	Jarrah Uplands	3	
37	Margaret River Plateau	Karri Uplands	3	
38	Margaret River Plateau	Jarrah Valleys	3	
39	Margaret River Plateau	Karri Valleys	3	
40	Lewin Naturalist Coast	Jarrah	3	
41	Lewin Naturalist Coast	Marri/Karri	3	
42	Lewin Naturalist Coast	Coast Heath	2	
43	Scott Coastal Plain	Uplands	2	
44	Scott Coastal Plain	Valleys / Swamps	2	
45	Redmond	Uplands	3	
46	Redmond	Valleys	3	
47	Unicup	Jarrah Uplands	3	
48	Unicup	Wandoo Uplands	3	
49	Unicup	Jarrah Valleys	3	
50	Unicup	Wandoo Valleys	3	
51	Unicup	Scrubland	3	
53	Darling Plateau	Wandoo Uplands South	2	
54	Darling Plateau	Wandoo Valleys South	2	

## Appendix 2b

Fauna Habitat ID	FDIS LAND SYSTEM	FDIS LANDSCAPE UNIT	SCORE	Origin
Broad Tailed Thornbill				
1	Darling Plateau	Jarrah Uplands North	3	
2	Darling Plateau	Jarrah Uplands East	3	
3	Darling Plateau	Jarrah Uplands South	3	
4	Darling Plateau	Jarrah Uplands South East	3	
5	Darling Plateau	Karri Uplands	3	
6	Darling Plateau	Wandoo Uplands North	3	
7	Darling Plateau	Powder Bark Uplands	3	
8	Darling Plateau	Scarp	3	
9	Darling Plateau	Depression / Swamps North	3	
10	Darling Plateau	Depressions / Swamps South	3	
11	Darling Plateau	Depressions / Swamps East	3	
12	Darling Plateau	Depressions / Swamps South East	3	
13	Darling Plateau	Jarrah Valleys North	3	
14	Darling Plateau	Jarrah Valleys East	3	
15	Darling Plateau	Jarrah Valleys South	3	
16	Darling Plateau	Jarrah Valleys South East	3	
17	Darling Plateau	Karri Valleys	3	
18	Darling Plateau	Wandoo Valleys North	3	
19	Darling Plateau	Powder Bark Wandoo Valleys	3	
20	Darling Plateau	Granite Outcrops	3	
21	Various Systems	Esturies / Open Water	0	
22	Collie Plain	Uplands	3	
23	Collie Plain	Depressions / Swamps	3	
24	Dandaragan Plateau	Uplands	3	
25	Dandaragan Plateau	Valleys	3	
26	Swan Coastal Plain	Uplands	3	
27	Swan Coastal Plain	Valleys	3	
28	Southern Plains	Jarrah	3	
29	Southern Plains	Karri	3	
30	Southern Plains	Heath / Sedgeland	3	
31	South Coast Dunes	South Coast Dunes	3	
32	Blackwood Plateau	Jarrah Uplands	3	
33	Blackwood Plateau	Karri Uplands	3	
34	Blackwood Plateau	Depressions / Swamps	3	
35	Blackwood Plateau	Valleys	3	
36	Margaret River Plateau	Jarrah Uplands	3	
37	Margaret River Plateau	Karri Uplands	3	
38	Margaret River Plateau	Jarrah Valleys	3	
39	Margaret River Plateau	Karri Valleys	3	
40	Lewin Naturalist Coast	Jarrah	3	
41	Lewin Naturalist Coast	Marri/Karri	3	
42	Lewin Naturalist Coast	Coast Heath	3	
43	Scott Coastal Plain	Uplands	3	
44	Scott Coastal Plain	Valleys / Swamps	3	
45	Redmond	Uplands	3	
46	Redmond	Valleys	3	
47	Unicup	Jarrah Uplands	3	
48	Unicup	Wandoo Uplands	3	
49	Unicup	Jarrah Valleys	3	
50	Unicup	Wandoo Valleys	3	
51	Unicup	Scrubland	3	
53	Darling Plateau	Wandoo Uplands South	3	
54	Darling Plateau	Wandoo Valleys South	3	

## Appendix 2b

Fauna Habitat ID	FDIS LAND SYSTEM	FDIS LANDSCAPE UNIT	SCORE	Origin
Western Thornbill				
1	Darling Plateau	Jarrah Uplands North	3	
2	Darling Plateau	Jarrah Uplands East	3	
3	Darling Plateau	Jarrah Uplands South	2	
4	Darling Plateau	Jarrah Uplands South East	3	
5	Darling Plateau	Karri Uplands	0	
6	Darling Plateau	Wandoo Uplands North	3	
7	Darling Plateau	Powder Bark Uplands	3	
8	Darling Plateau	Scarp	3	
9	Darling Plateau	Depression / Swamps North	3	
10	Darling Plateau	Depressions / Swamps South	2	
11	Darling Plateau	Depressions / Swamps East	2	
12	Darling Plateau	Depressions / Swamps South East	2	
13	Darling Plateau	Jarrah Valleys North	3	
14	Darling Plateau	Jarrah Valleys East	3	
15	Darling Plateau	Jarrah Valleys South	2	
16	Darling Plateau	Jarrah Valleys South East	3	
17	Darling Plateau	Karri Valleys	0	
18	Darling Plateau	Wandoo Valleys North	3	
19	Darling Plateau	Powder Bark Wandoo Valleys	3	
20	Darling Plateau	Granite Outcrops	2	
21	Various Systems	Esturies / Open Water	0	
22	Collie Plain	Uplands	3	
23	Collie Plain	Depressions / Swamps	3	
24	Dandaragan Plateau	Uplands	3	
25	Dandaragan Plateau	Valleys	3	
26	Swan Coastal Plain	Uplands	3	
27	Swan Coastal Plain	Valleys	3	
28	Southern Plains	Jarrah	2	
29	Southern Plains	Karri	0	
30	Southern Plains	Heath / Sedgeland	2	
31	South Coast Dunes	South Coast Dunes	1	
32	Blackwood Plateau	Jarrah Uplands	2	
33	Blackwood Plateau	Karri Uplands	1	
34	Blackwood Plateau	Depressions / Swamps	2	
35	Blackwood Plateau	Valleys	2	
36	Margaret River Plateau	Jarrah Uplands	2	
37	Margaret River Plateau	Karri Uplands	1	
38	Margaret River Plateau	Jarrah Valleys	2	
39	Margaret River Plateau	Karri Valleys	1	
40	Lewin Naturalist Coast	Jarrah	2	
41	Lewin Naturalist Coast	Marri/Karri	1	
42	Lewin Naturalist Coast	Coast Heath	2	
43	Scott Coastal Plain	Uplands	2	
44	Scott Coastal Plain	Valleys / Swamps	2	
45	Redmond	Uplands	3	
46	Redmond	Valleys	2	
47	Unicup	Jarrah Uplands	3	
48	Unicup	Wandoo Uplands	3	
49	Unicup	Jarrah Valleys	3	
50	Unicup	Wandoo Valleys	3	
51	Unicup	Scrubland	3	
53	Darling Plateau	Wandoo Uplands South	3	
54	Darling Plateau	Wandoo Valleys South	3	



## Appendix 2b

Fauna Habitat ID	FDIS LAND SYSTEM	FDIS LANDSCAPE UNIT	SCORE	Origin
Yellow-rumped Thornbill				
1	Darling Plateau	Jarrah Uplands North	3	
2	Darling Plateau	Jarrah Uplands East	3	
3	Darling Plateau	Jarrah Uplands South	2	
4	Darling Plateau	Jarrah Uplands South East	3	
5	Darling Plateau	Karri Uplands	0	
6	Darling Plateau	Wandoo Uplands North	3	
7	Darling Plateau	Powder Bark Uplands	3	
8	Darling Plateau	Scarp	3	
9	Darling Plateau	Depression / Swamps North	3	
10	Darling Plateau	Depressions / Swamps South	2	
11	Darling Plateau	Depressions / Swamps East	2	
12	Darling Plateau	Depressions / Swamps South East	2	
13	Darling Plateau	Jarrah Valleys North	3	
14	Darling Plateau	Jarrah Valleys East	3	
15	Darling Plateau	Jarrah Valleys South	2	
16	Darling Plateau	Jarrah Valleys South East	3	
17	Darling Plateau	Karri Valleys	0	
18	Darling Plateau	Wandoo Valleys North	3	
19	Darling Plateau	Powder Bark Wandoo Valleys	3	
20	Darling Plateau	Granite Outcrops	3	
21	Various Systems	Esturies / Open Water	0	
22	Collie Plain	Uplands	3	
23	Collie Plain	Depressions / Swamps	3	
24	Dandaragan Plateau	Uplands	3	
25	Dandaragan Plateau	Valleys	3	
26	Swan Coastal Plain	Uplands	3	
27	Swan Coastal Plain	Valleys	2	
28	Southern Plains	Jarrah	0	
29	Southern Plains	Karri	0	
30	Southern Plains	Heath / Sedgeland	0	
31	South Coast Dunes	South Coast Dunes	0	
32	Blackwood Plateau	Jarrah Uplands	2	
33	Blackwood Plateau	Karri Uplands	0	
34	Blackwood Plateau	Depressions / Swamps	3	
35	Blackwood Plateau	Valleys	2	
36	Margaret River Plateau	Jarrah Uplands	2	
37	Margaret River Plateau	Karri Uplands	0	
38	Margaret River Plateau	Jarrah Valleys	2	
39	Margaret River Plateau	Karri Valleys	0	
40	Lewin Naturalist Coast	Jarrah	2	
41	Lewin Naturalist Coast	Marri/Karri	0	
42	Lewin Naturalist Coast	Coast Heath	3	
43	Scott Coastal Plain	Uplands	3	
44	Scott Coastal Plain	Valleys / Swamps	1	
45	Redmond	Uplands	3	
46	Redmond	Valleys	2	
47	Unicup	Jarrah Uplands	3	
48	Unicup	Wandoo Uplands	3	
49	Unicup	Jarrah Valleys	3	
50	Unicup	Wandoo Valleys	3	
51	Unicup	Scrubland	3	
53	Darling Plateau	Wandoo Uplands South	3	
54	Darling Plateau	Wandoo Valleys South	3	

## Appendix 2b

Fauna Habitat ID	FDIS LAND SYSTEM	FDIS LANDSCAPE UNIT	SCORE	Origin
Varied Sittella				
1	Darling Plateau	Jarrah Uplands North	3	
2	Darling Plateau	Jarrah Uplands East	3	
3	Darling Plateau	Jarrah Uplands South	3	
4	Darling Plateau	Jarrah Uplands South East	3	
5	Darling Plateau	Karri Uplands	1	
6	Darling Plateau	Wandoo Uplands North	2	
7	Darling Plateau	Powder Bark Uplands	2	
8	Darling Plateau	Scarp	3	
9	Darling Plateau	Depression / Swamps North	3	
10	Darling Plateau	Depressions / Swamps South	2	
11	Darling Plateau	Depressions / Swamps East	2	
12	Darling Plateau	Depressions / Swamps South East	2	
13	Darling Plateau	Jarrah Valleys North	3	
14	Darling Plateau	Jarrah Valleys East	3	
15	Darling Plateau	Jarrah Valleys South	3	
16	Darling Plateau	Jarrah Valleys South East	3	
17	Darling Plateau	Karri Valleys	1	
18	Darling Plateau	Wandoo Valleys North	2	
19	Darling Plateau	Powder Bark Wandoo Valleys	2	
20	Darling Plateau	Granite Outcrops	2	
21	Various Systems	Esturies / Open Water	0	
22	Collie Plain	Uplands	3	
23	Collie Plain	Depressions / Swamps	3	
24	Dandaragan Plateau	Uplands	3	
25	Dandaragan Plateau	Valleys	3	
26	Swan Coastal Plain	Uplands	3	
27	Swan Coastal Plain	Valleys	3	
28	Southern Plains	Jarrah	3	
29	Southern Plains	Karri	1	
30	Southern Plains	Heath / Sedgeland	3	
31	South Coast Dunes	South Coast Dunes	3	
32	Blackwood Plateau	Jarrah Uplands	3	
33	Blackwood Plateau	Karri Uplands	2	
34	Blackwood Plateau	Depressions / Swamps	3	
35	Blackwood Plateau	Valleys	3	
36	Margaret River Plateau	Jarrah Uplands	3	
37	Margaret River Plateau	Karri Uplands	2	
38	Margaret River Plateau	Jarrah Valleys	3	
39	Margaret River Plateau	Karri Valleys	2	
40	Lewin Naturalist Coast	Jarrah	3	
41	Lewin Naturalist Coast	Marri/Karri	2	
42	Lewin Naturalist Coast	Coast Heath	3	
43	Scott Coastal Plain	Uplands	3	
44	Scott Coastal Plain	Valleys / Swamps	3	
45	Redmond	Uplands	3	
46	Redmond	Valleys	3	
47	Unicup	Jarrah Uplands	3	
48	Unicup	Wandoo Uplands	2	
49	Unicup	Jarrah Valleys	3	
50	Unicup	Wandoo Valleys	2	
51	Unicup	Scrubland	2	
53	Darling Plateau	Wandoo Uplands South	2	
54	Darling Plateau	Wandoo Valleys South	2	

## Appendix 2b

Fauna Habitat ID	FDIS LAND SYSTEM	FDIS LANDSCAPE UNIT	SCORE	Origin
Rufous Treecreeper				
1	Darling Plateau	Jarrah Uplands North	3	
2	Darling Plateau	Jarrah Uplands East	3	
3	Darling Plateau	Jarrah Uplands South	3	
4	Darling Plateau	Jarrah Uplands South East	3	
5	Darling Plateau	Karri Uplands	3	
6	Darling Plateau	Wandoo Uplands North	0	
7	Darling Plateau	Powder Bark Uplands	3	
8	Darling Plateau	Scarp	3	
9	Darling Plateau	Depression / Swamps North	2	
10	Darling Plateau	Depressions / Swamps South	2	
11	Darling Plateau	Depressions / Swamps East	2	
12	Darling Plateau	Depressions / Swamps South East	2	
13	Darling Plateau	Jarrah Valleys North	3	
14	Darling Plateau	Jarrah Valleys East	3	
15	Darling Plateau	Jarrah Valleys South	3	
16	Darling Plateau	Jarrah Valleys South East	3	
17	Darling Plateau	Karri Valleys	3	
18	Darling Plateau	Wandoo Valleys North	0	
19	Darling Plateau	Powder Bark Wandoo Valleys	3	
20	Darling Plateau	Granite Outcrops	2	
21	Various Systems	Esturies / Open Water	0	
22	Collie Plain	Uplands	3	
23	Collie Plain	Depressions / Swamps	3	
24	Dandaragan Plateau	Uplands	3	
25	Dandaragan Plateau	Valleys	3	
26	Swan Coastal Plain	Uplands	2	
27	Swan Coastal Plain	Valleys	2	
28	Southern Plains	Jarrah	3	
29	Southern Plains	Karri	3	
30	Southern Plains	Heath / Sedgeland	3	
31	South Coast Dunes	South Coast Dunes	2	
32	Blackwood Plateau	Jarrah Uplands	3	
33	Blackwood Plateau	Karri Uplands	3	
34	Blackwood Plateau	Depressions / Swamps	3	
35	Blackwood Plateau	Valleys	3	
36	Margaret River Plateau	Jarrah Uplands	3	
37	Margaret River Plateau	Karri Uplands	3	
38	Margaret River Plateau	Jarrah Valleys	3	
39	Margaret River Plateau	Karri Valleys	3	
40	Lewin Naturalist Coast	Jarrah	3	
41	Lewin Naturalist Coast	Marri/Karri	3	
42	Lewin Naturalist Coast	Coast Heath	1	
43	Scott Coastal Plain	Uplands	3	
44	Scott Coastal Plain	Valleys / Swamps	3	
45	Redmond	Uplands	3	
46	Redmond	Valleys	3	
47	Unicup	Jarrah Uplands	3	
48	Unicup	Wandoo Uplands	3	
49	Unicup	Jarrah Valleys	3	
50	Unicup	Wandoo Valleys	3	
51	Unicup	Scrubland	3	
53	Darling Plateau	Wandoo Uplands South	1	
54	Darling Plateau	Wandoo Valleys South	1	

## Appendix 2b

Fauna Habitat ID	FDIS LAND SYSTEM	FDIS LANDSCAPE UNIT	SCORE	Origin
Red Wattlebird				
1	Darling Plateau	Jarrah Uplands North	3	
2	Darling Plateau	Jarrah Uplands East	3	
3	Darling Plateau	Jarrah Uplands South	3	
4	Darling Plateau	Jarrah Uplands South East	3	
5	Darling Plateau	Karri Uplands	3	
6	Darling Plateau	Wandoo Uplands North	3	
7	Darling Plateau	Powder Bark Uplands	3	
8	Darling Plateau	Scarp	3	
9	Darling Plateau	Depression / Swamps North	3	
10	Darling Plateau	Depressions / Swamps South	3	
11	Darling Plateau	Depressions / Swamps East	3	
12	Darling Plateau	Depressions / Swamps South East	3	
13	Darling Plateau	Jarrah Valleys North	3	
14	Darling Plateau	Jarrah Valleys East	3	
15	Darling Plateau	Jarrah Valleys South	3	
16	Darling Plateau	Jarrah Valleys South East	3	
17	Darling Plateau	Karri Valleys	3	
18	Darling Plateau	Wandoo Valleys North	3	
19	Darling Plateau	Powder Bark Wandoo Valleys	3	
20	Darling Plateau	Granite Outcrops	3	
21	Various Systems	Esturies / Open Water	0	
22	Collie Plain	Uplands	3	
23	Collie Plain	Depressions / Swamps	3	
24	Dandaragan Plateau	Uplands	3	
25	Dandaragan Plateau	Valleys	3	
26	Swan Coastal Plain	Uplands	3	
27	Swan Coastal Plain	Valleys	3	
28	Southern Plains	Jarrah	3	
29	Southern Plains	Karri	3	
30	Southern Plains	Heath / Sedgeland	3	
31	South Coast Dunes	South Coast Dunes	3	
32	Blackwood Plateau	Jarrah Uplands	3	
33	Blackwood Plateau	Karri Uplands	3	
34	Blackwood Plateau	Depressions / Swamps	3	
35	Blackwood Plateau	Valleys	3	
36	Margaret River Plateau	Jarrah Uplands	3	
37	Margaret River Plateau	Karri Uplands	3	
38	Margaret River Plateau	Jarrah Valleys	3	
39	Margaret River Plateau	Karri Valleys	3	
40	Lewin Naturalist Coast	Jarrah	3	
41	Lewin Naturalist Coast	Marri/Karri	3	
42	Lewin Naturalist Coast	Coast Heath	3	
43	Scott Coastal Plain	Uplands	3	
44	Scott Coastal Plain	Valleys / Swamps	3	
45	Redmond	Uplands	3	
46	Redmond	Valleys	3	
47	Unicup	Jarrah Uplands	3	
48	Unicup	Wandoo Uplands	3	
49	Unicup	Jarrah Valleys	3	
50	Unicup	Wandoo Valleys	3	
51	Unicup	Scrubland	3	
53	Darling Plateau	Wandoo Uplands South	3	
54	Darling Plateau	Wandoo Valleys South	3	

## Appendix 2b

Fauna Habitat ID	FDIS LAND SYSTEM	FDIS LANDSCAPE UNIT	SCORE	Origin
Little Wattlebird				
1	Darling Plateau	Jarrah Uplands North	2	
2	Darling Plateau	Jarrah Uplands East	2	
3	Darling Plateau	Jarrah Uplands South	2	
4	Darling Plateau	Jarrah Uplands South East	2	
5	Darling Plateau	Karri Uplands	2	
6	Darling Plateau	Wandoo Uplands North	2	
7	Darling Plateau	Powder Bark Uplands	2	
8	Darling Plateau	Scarp	2	
9	Darling Plateau	Depression / Swamps North	3	
10	Darling Plateau	Depressions / Swamps South	2	
11	Darling Plateau	Depressions / Swamps East	2	
12	Darling Plateau	Depressions / Swamps South East	2	
13	Darling Plateau	Jarrah Valleys North	2	
14	Darling Plateau	Jarrah Valleys East	2	
15	Darling Plateau	Jarrah Valleys South	2	
16	Darling Plateau	Jarrah Valleys South East	2	
17	Darling Plateau	Karri Valleys	2	
18	Darling Plateau	Wandoo Valleys North	2	
19	Darling Plateau	Powder Bark Wandoo Valleys	2	
20	Darling Plateau	Granite Outcrops	2	
21	Various Systems	Esturies / Open Water	0	
22	Collie Plain	Uplands	2	
23	Collie Plain	Depressions / Swamps	2	
24	Dandaragan Plateau	Uplands	2	
25	Dandaragan Plateau	Valleys	2	
26	Swan Coastal Plain	Uplands	3	
27	Swan Coastal Plain	Valleys	3	
28	Southern Plains	Jarrah	3	
29	Southern Plains	Karri	2	
30	Southern Plains	Heath / Sedgeland	3	
31	South Coast Dunes	South Coast Dunes	1	
32	Blackwood Plateau	Jarrah Uplands	2	
33	Blackwood Plateau	Karri Uplands	2	
34	Blackwood Plateau	Depressions / Swamps	3	
35	Blackwood Plateau	Valleys	2	
36	Margaret River Plateau	Jarrah Uplands	2	
37	Margaret River Plateau	Karri Uplands	2	
38	Margaret River Plateau	Jarrah Valleys	2	
39	Margaret River Plateau	Karri Valleys	2	
40	Lewin Naturalist Coast	Jarrah	2	
41	Lewin Naturalist Coast	Marri/Karri	2	
42	Lewin Naturalist Coast	Coast Heath	3	
43	Scott Coastal Plain	Uplands	3	
44	Scott Coastal Plain	Valleys / Swamps	3	
45	Redmond	Uplands	3	
46	Redmond	Valleys	3	
47	Unicup	Jarrah Uplands	2	
48	Unicup	Wandoo Uplands	2	
49	Unicup	Jarrah Valleys	2	
50	Unicup	Wandoo Valleys	2	
51	Unicup	Scrubland	2	
53	Darling Plateau	Wandoo Uplands South	2	
54	Darling Plateau	Wandoo Valleys South	2	

## Appendix 2b

Fauna Habitat ID	FDIS LAND SYSTEM	FDIS LANDSCAPE UNIT	SCORE	Origin
Yellow-throated Miner				
1	Darling Plateau	Jarrah Uplands North	0	
2	Darling Plateau	Jarrah Uplands East	0	
3	Darling Plateau	Jarrah Uplands South	0	
4	Darling Plateau	Jarrah Uplands South East	0	
5	Darling Plateau	Karri Uplands	0	
6	Darling Plateau	Wandoo Uplands North	1	
7	Darling Plateau	Powder Bark Uplands	2	
8	Darling Plateau	Scarp	0	
9	Darling Plateau	Depression / Swamps North	0	
10	Darling Plateau	Depressions / Swamps South	0	
11	Darling Plateau	Depressions / Swamps East	0	
12	Darling Plateau	Depressions / Swamps South East	0	
13	Darling Plateau	Jarrah Valleys North	0	
14	Darling Plateau	Jarrah Valleys East	0	
15	Darling Plateau	Jarrah Valleys South	0	
16	Darling Plateau	Jarrah Valleys South East	0	
17	Darling Plateau	Karri Valleys	0	
18	Darling Plateau	Wandoo Valleys North	1	
19	Darling Plateau	Powder Bark Wandoo Valleys	2	
20	Darling Plateau	Granite Outcrops	0	
21	Various Systems	Esturies / Open Water	0	
22	Collie Plain	Uplands	0	
23	Collie Plain	Depressions / Swamps	0	
24	Dandaragan Plateau	Uplands	2	
25	Dandaragan Plateau	Valleys	2	
26	Swan Coastal Plain	Uplands	1	
27	Swan Coastal Plain	Valleys	2	
28	Southern Plains	Jarrah	0	
29	Southern Plains	Karri	0	
30	Southern Plains	Heath / Sedgeland	0	
31	South Coast Dunes	South Coast Dunes	0	
32	Blackwood Plateau	Jarrah Uplands	0	
33	Blackwood Plateau	Karri Uplands	0	
34	Blackwood Plateau	Depressions / Swamps	0	
35	Blackwood Plateau	Valleys	0	
36	Margaret River Plateau	Jarrah Uplands	0	
37	Margaret River Plateau	Karri Uplands	0	
38	Margaret River Plateau	Jarrah Valleys	0	
39	Margaret River Plateau	Karri Valleys	0	
40	Lewin Naturalist Coast	Jarrah	0	
41	Lewin Naturalist Coast	Marri/Karri	0	
42	Lewin Naturalist Coast	Coast Heath	0	
43	Scott Coastal Plain	Uplands	0	
44	Scott Coastal Plain	Valleys / Swamps	0	
45	Redmond	Uplands	0	
46	Redmond	Valleys	0	
47	Unicup	Jarrah Uplands	0	
48	Unicup	Wandoo Uplands	1	
49	Unicup	Jarrah Valleys	0	
50	Unicup	Wandoo Valleys	1	
51	Unicup	Scrubland	1	
53	Darling Plateau	Wandoo Uplands South	0	
54	Darling Plateau	Wandoo Valleys South	0	

## Appendix 2b

Fauna Habitat ID	FDIS LAND SYSTEM	FDIS LANDSCAPE UNIT	SCORE	Origin
Singing Honeyeater				
1	Darling Plateau	Jarrah Uplands North	2	
2	Darling Plateau	Jarrah Uplands East	3	
3	Darling Plateau	Jarrah Uplands South	1	
4	Darling Plateau	Jarrah Uplands South East	3	
5	Darling Plateau	Karri Uplands	0	
6	Darling Plateau	Wandoo Uplands North	3	
7	Darling Plateau	Powder Bark Uplands	3	
8	Darling Plateau	Scarp	2	
9	Darling Plateau	Depression / Swamps North	2	
10	Darling Plateau	Depressions / Swamps South	0	
11	Darling Plateau	Depressions / Swamps East	1	
12	Darling Plateau	Depressions / Swamps South East	0	
13	Darling Plateau	Jarrah Valleys North	2	
14	Darling Plateau	Jarrah Valleys East	3	
15	Darling Plateau	Jarrah Valleys South	0	
16	Darling Plateau	Jarrah Valleys South East	3	
17	Darling Plateau	Karri Valleys	0	
18	Darling Plateau	Wandoo Valleys North	3	
19	Darling Plateau	Powder Bark Wandoo Valleys	3	
20	Darling Plateau	Granite Outcrops	1	
21	Various Systems	Esturies / Open Water	0	
22	Collie Plain	Uplands	2	
23	Collie Plain	Depressions / Swamps	1	
24	Dandaragan Plateau	Uplands	3	
25	Dandaragan Plateau	Valleys	3	
26	Swan Coastal Plain	Uplands	3	
27	Swan Coastal Plain	Valleys	3	
28	Southern Plains	Jarrah	0	
29	Southern Plains	Karri	0	
30	Southern Plains	Heath / Sedgeland	0	
31	South Coast Dunes	South Coast Dunes	0	
32	Blackwood Plateau	Jarrah Uplands	1	
33	Blackwood Plateau	Karri Uplands	0	
34	Blackwood Plateau	Depressions / Swamps	1	
35	Blackwood Plateau	Valleys	0	
36	Margaret River Plateau	Jarrah Uplands	1	
37	Margaret River Plateau	Karri Uplands	0	
38	Margaret River Plateau	Jarrah Valleys	0	
39	Margaret River Plateau	Karri Valleys	0	
40	Lewin Naturalist Coast	Jarrah	1	
41	Lewin Naturalist Coast	Marri/Karri	0	
42	Lewin Naturalist Coast	Coast Heath	2	
43	Scott Coastal Plain	Uplands	0	
44	Scott Coastal Plain	Valleys / Swamps	0	
45	Redmond	Uplands	1	
46	Redmond	Valleys	0	
47	Unicup	Jarrah Uplands	1	
48	Unicup	Wandoo Uplands	1	
49	Unicup	Jarrah Valleys	1	
50	Unicup	Wandoo Valleys	1	
51	Unicup	Scrubland	1	
53	Darling Plateau	Wandoo Uplands South	2	
54	Darling Plateau	Wandoo Valleys South	2	

## Appendix 2b

Fauna Habitat ID	FDIS LAND SYSTEM	FDIS LANDSCAPE UNIT	SCORE	Origin
White-eared Honeyeater				
1	Darling Plateau	Jarrah Uplands North	0	
2	Darling Plateau	Jarrah Uplands East	0	
3	Darling Plateau	Jarrah Uplands South	0	
4	Darling Plateau	Jarrah Uplands South East	0	
5	Darling Plateau	Karri Uplands	0	
6	Darling Plateau	Wandoo Uplands North	0	
7	Darling Plateau	Powder Bark Uplands	0	
8	Darling Plateau	Scarp	0	
9	Darling Plateau	Depression / Swamps North	0	
10	Darling Plateau	Depressions / Swamps South	0	
11	Darling Plateau	Depressions / Swamps East	0	
12	Darling Plateau	Depressions / Swamps South East	0	
13	Darling Plateau	Jarrah Valleys North	0	
14	Darling Plateau	Jarrah Valleys East	0	
15	Darling Plateau	Jarrah Valleys South	0	
16	Darling Plateau	Jarrah Valleys South East	0	
17	Darling Plateau	Karri Valleys	0	
18	Darling Plateau	Wandoo Valleys North	0	
19	Darling Plateau	Powder Bark Wandoo Valleys	0	
20	Darling Plateau	Granite Outcrops	0	
21	Various Systems	Esturies / Open Water	0	
22	Collie Plain	Uplands	0	
23	Collie Plain	Depressions / Swamps	0	
24	Dandaragan Plateau	Uplands	1	
25	Dandaragan Plateau	Valleys	1	
26	Swan Coastal Plain	Uplands	0	
27	Swan Coastal Plain	Valleys	0	
28	Southern Plains	Jarrah	0	
29	Southern Plains	Karri	0	
30	Southern Plains	Heath / Sedgeland	0	
31	South Coast Dunes	South Coast Dunes	0	
32	Blackwood Plateau	Jarrah Uplands	0	
33	Blackwood Plateau	Karri Uplands	0	
34	Blackwood Plateau	Depressions / Swamps	0	
35	Blackwood Plateau	Valleys	0	
36	Margaret River Plateau	Jarrah Uplands	0	
37	Margaret River Plateau	Karri Uplands	0	
38	Margaret River Plateau	Jarrah Valleys	0	
39	Margaret River Plateau	Karri Valleys	0	
40	Lewin Naturalist Coast	Jarrah	0	
41	Lewin Naturalist Coast	Marri/Karri	0	
42	Lewin Naturalist Coast	Coast Heath	0	
43	Scott Coastal Plain	Uplands	0	
44	Scott Coastal Plain	Valleys / Swamps	0	
45	Redmond	Uplands	0	
46	Redmond	Valleys	0	
47	Unicup	Jarrah Uplands	0	
48	Unicup	Wandoo Uplands	0	
49	Unicup	Jarrah Valleys	0	
50	Unicup	Wandoo Valleys	0	
51	Unicup	Scrubland	0	
53	Darling Plateau	Wandoo Uplands South	0	
54	Darling Plateau	Wandoo Valleys South	0	



## Appendix 2b

Fauna Habitat ID	FDIS LAND SYSTEM	FDIS LANDSCAPE UNIT	SCORE	Origin
Yellow-plumed Honeyeater				
1	Darling Plateau	Jarrah Uplands North	0	
2	Darling Plateau	Jarrah Uplands East	2	
3	Darling Plateau	Jarrah Uplands South	0	
4	Darling Plateau	Jarrah Uplands South East	0	
5	Darling Plateau	Karri Uplands	0	
6	Darling Plateau	Wandoo Uplands North	2	
7	Darling Plateau	Powder Bark Uplands	2	
8	Darling Plateau	Scarp	0	
9	Darling Plateau	Depression / Swamps North	0	
10	Darling Plateau	Depressions / Swamps South	0	
11	Darling Plateau	Depressions / Swamps East	2	
12	Darling Plateau	Depressions / Swamps South East	0	
13	Darling Plateau	Jarrah Valleys North	0	
14	Darling Plateau	Jarrah Valleys East	2	
15	Darling Plateau	Jarrah Valleys South	0	
16	Darling Plateau	Jarrah Valleys South East	0	
17	Darling Plateau	Karri Valleys	1	
18	Darling Plateau	Wandoo Valleys North	2	
19	Darling Plateau	Powder Bark Wandoo Valleys	2	
20	Darling Plateau	Granite Outcrops	0	
21	Various Systems	Esturies / Open Water	0	
22	Collie Plain	Uplands	0	
23	Collie Plain	Depressions / Swamps	0	
24	Dandaragan Plateau	Uplands	2	
25	Dandaragan Plateau	Valleys	2	
26	Swan Coastal Plain	Uplands	1	
27	Swan Coastal Plain	Valleys	1	
28	Southern Plains	Jarrah	0	
29	Southern Plains	Karri	0	
30	Southern Plains	Heath / Sedgeland	0	
31	South Coast Dunes	South Coast Dunes	0	
32	Blackwood Plateau	Jarrah Uplands	0	
33	Blackwood Plateau	Karri Uplands	0	
34	Blackwood Plateau	Depressions / Swamps	0	
35	Blackwood Plateau	Valleys	0	
36	Margaret River Plateau	Jarrah Uplands	0	
37	Margaret River Plateau	Karri Uplands	0	
38	Margaret River Plateau	Jarrah Valleys	0	
39	Margaret River Plateau	Karri Valleys	0	
40	Lewin Naturalist Coast	Jarrah	0	
41	Lewin Naturalist Coast	Marri/Karri	0	
42	Lewin Naturalist Coast	Coast Heath	0	
43	Scott Coastal Plain	Uplands	0	
44	Scott Coastal Plain	Valleys / Swamps	0	
45	Redmond	Uplands	0	
46	Redmond	Valleys	0	
47	Unicup	Jarrah Uplands	1	
48	Unicup	Wandoo Uplands	1	
49	Unicup	Jarrah Valleys	1	
50	Unicup	Wandoo Valleys	1	
51	Unicup	Scrubland	1	
53	Darling Plateau	Wandoo Uplands South	0	
54	Darling Plateau	Wandoo Valleys South	0	

## Appendix 2b

Fauna Habitat ID	FDIS LAND SYSTEM	FDIS LANDSCAPE UNIT	SCORE	Origin
Brown-headed Honeyeater				
1	Darling Plateau	Jarrah Uplands North	1	
2	Darling Plateau	Jarrah Uplands East	2	
3	Darling Plateau	Jarrah Uplands South	0	
4	Darling Plateau	Jarrah Uplands South East	1	
5	Darling Plateau	Karri Uplands	0	
6	Darling Plateau	Wandoo Uplands North	3	
7	Darling Plateau	Powder Bark Uplands	3	
8	Darling Plateau	Scarp	1	
9	Darling Plateau	Depression / Swamps North	1	
10	Darling Plateau	Depressions / Swamps South	0	
11	Darling Plateau	Depressions / Swamps East	1	
12	Darling Plateau	Depressions / Swamps South East	1	
13	Darling Plateau	Jarrah Valleys North	1	
14	Darling Plateau	Jarrah Valleys East	2	
15	Darling Plateau	Jarrah Valleys South	0	
16	Darling Plateau	Jarrah Valleys South East	3	
17	Darling Plateau	Karri Valleys	0	
18	Darling Plateau	Wandoo Valleys North	3	
19	Darling Plateau	Powder Bark Wandoo Valleys	3	
20	Darling Plateau	Granite Outcrops	0	
21	Various Systems	Esturies / Open Water	0	
22	Collie Plain	Uplands	1	
23	Collie Plain	Depressions / Swamps	1	
24	Dandaragan Plateau	Uplands	2	
25	Dandaragan Plateau	Valleys	2	
26	Swan Coastal Plain	Uplands	2	
27	Swan Coastal Plain	Valleys	2	
28	Southern Plains	Jarrah	0	
29	Southern Plains	Karri	0	
30	Southern Plains	Heath / Sedgeland	0	
31	South Coast Dunes	South Coast Dunes	0	
32	Blackwood Plateau	Jarrah Uplands	1	
33	Blackwood Plateau	Karri Uplands	0	
34	Blackwood Plateau	Depressions / Swamps	0	
35	Blackwood Plateau	Valleys	1	
36	Margaret River Plateau	Jarrah Uplands	0	
37	Margaret River Plateau	Karri Uplands	0	
38	Margaret River Plateau	Jarrah Valleys	0	
39	Margaret River Plateau	Karri Valleys	0	
40	Lewin Naturalist Coast	Jarrah	0	
41	Lewin Naturalist Coast	Marri/Karri	0	
42	Lewin Naturalist Coast	Coast Heath	1	
43	Scott Coastal Plain	Uplands	0	
44	Scott Coastal Plain	Valleys / Swamps	0	
45	Redmond	Uplands	0	
46	Redmond	Valleys	0	
47	Unicup	Jarrah Uplands	0	
48	Unicup	Wandoo Uplands	1	
49	Unicup	Jarrah Valleys	1	
50	Unicup	Wandoo Valleys	1	
51	Unicup	Scrubland	1	
53	Darling Plateau	Wandoo Uplands South	3	
54	Darling Plateau	Wandoo Valleys South	3	

## Appendix 2b

Fauna Habitat ID	FDIS LAND SYSTEM	FDIS LANDSCAPE UNIT	SCORE	Origin
White-naped Honeyeater				
1	Darling Plateau	Jarrah Uplands North	3	
2	Darling Plateau	Jarrah Uplands East	3	
3	Darling Plateau	Jarrah Uplands South	3	
4	Darling Plateau	Jarrah Uplands South East	3	
5	Darling Plateau	Karri Uplands	3	
6	Darling Plateau	Wandoo Uplands North	3	
7	Darling Plateau	Powder Bark Uplands	3	
8	Darling Plateau	Scarp	3	
9	Darling Plateau	Depression / Swamps North	3	
10	Darling Plateau	Depressions / Swamps South	3	
11	Darling Plateau	Depressions / Swamps East	3	
12	Darling Plateau	Depressions / Swamps South East	3	
13	Darling Plateau	Jarrah Valleys North	3	
14	Darling Plateau	Jarrah Valleys East	3	
15	Darling Plateau	Jarrah Valleys South	3	
16	Darling Plateau	Jarrah Valleys South East	3	
17	Darling Plateau	Karri Valleys	3	
18	Darling Plateau	Wandoo Valleys North	3	
19	Darling Plateau	Powder Bark Wandoo Valleys	3	
20	Darling Plateau	Granite Outcrops	3	
21	Various Systems	Esturies / Open Water	0	
22	Collie Plain	Uplands	3	
23	Collie Plain	Depressions / Swamps	3	
24	Dandaragan Plateau	Uplands	3	
25	Dandaragan Plateau	Valleys	3	
26	Swan Coastal Plain	Uplands	3	
27	Swan Coastal Plain	Valleys	3	
28	Southern Plains	Jarrah	3	
29	Southern Plains	Karri	3	
30	Southern Plains	Heath / Sedgeland	3	
31	South Coast Dunes	South Coast Dunes	3	
32	Blackwood Plateau	Jarrah Uplands	3	
33	Blackwood Plateau	Karri Uplands	3	
34	Blackwood Plateau	Depressions / Swamps	3	
35	Blackwood Plateau	Valleys	3	
36	Margaret River Plateau	Jarrah Uplands	3	
37	Margaret River Plateau	Karri Uplands	3	
38	Margaret River Plateau	Jarrah Valleys	3	
39	Margaret River Plateau	Karri Valleys	3	
40	Lewin Naturalist Coast	Jarrah	3	
41	Lewin Naturalist Coast	Marri/Karri	3	
42	Lewin Naturalist Coast	Coast Heath	3	
43	Scott Coastal Plain	Uplands	3	
44	Scott Coastal Plain	Valleys / Swamps	3	
45	Redmond	Uplands	3	
46	Redmond	Valleys	3	
47	Unicup	Jarrah Uplands	3	
48	Unicup	Wandoo Uplands	3	
49	Unicup	Jarrah Valleys	3	
50	Unicup	Wandoo Valleys	3	
51	Unicup	Scrubland	3	
53	Darling Plateau	Wandoo Uplands South	3	
54	Darling Plateau	Wandoo Valleys South	3	

## Appendix 2b

Fauna Habitat ID	FDIS LAND SYSTEM	FDIS LANDSCAPE UNIT	SCORE	Origin
Brown Honeyeater				
1	Darling Plateau	Jarrah Uplands North	3	
2	Darling Plateau	Jarrah Uplands East	3	
3	Darling Plateau	Jarrah Uplands South	2	
4	Darling Plateau	Jarrah Uplands South East	1	
5	Darling Plateau	Karri Uplands	1	
6	Darling Plateau	Wandoo Uplands North	2	
7	Darling Plateau	Powder Bark Uplands	3	
8	Darling Plateau	Scarp	3	
9	Darling Plateau	Depression / Swamps North	3	
10	Darling Plateau	Depressions / Swamps South	1	
11	Darling Plateau	Depressions / Swamps East	2	
12	Darling Plateau	Depressions / Swamps South East	1	
13	Darling Plateau	Jarrah Valleys North	3	
14	Darling Plateau	Jarrah Valleys East	3	
15	Darling Plateau	Jarrah Valleys South	2	
16	Darling Plateau	Jarrah Valleys South East	3	
17	Darling Plateau	Karri Valleys	2	
18	Darling Plateau	Wandoo Valleys North	2	
19	Darling Plateau	Powder Bark Wandoo Valleys	3	
20	Darling Plateau	Granite Outcrops	2	
21	Various Systems	Esturies / Open Water	0	
22	Collie Plain	Uplands	3	
23	Collie Plain	Depressions / Swamps	3	
24	Dandaragan Plateau	Uplands	3	
25	Dandaragan Plateau	Valleys	3	
26	Swan Coastal Plain	Uplands	3	
27	Swan Coastal Plain	Valleys	3	
28	Southern Plains	Jarrah	3	
29	Southern Plains	Karri	2	
30	Southern Plains	Heath / Sedgeland	3	
31	South Coast Dunes	South Coast Dunes	3	
32	Blackwood Plateau	Jarrah Uplands	2	
33	Blackwood Plateau	Karri Uplands	2	
34	Blackwood Plateau	Depressions / Swamps	3	
35	Blackwood Plateau	Valleys	2	
36	Margaret River Plateau	Jarrah Uplands	2	
37	Margaret River Plateau	Karri Uplands	2	
38	Margaret River Plateau	Jarrah Valleys	2	
39	Margaret River Plateau	Karri Valleys	2	
40	Lewin Naturalist Coast	Jarrah	2	
41	Lewin Naturalist Coast	Marri/Karri	2	
42	Lewin Naturalist Coast	Coast Heath	3	
43	Scott Coastal Plain	Uplands	3	
44	Scott Coastal Plain	Valleys / Swamps	3	
45	Redmond	Uplands	3	
46	Redmond	Valleys	3	
47	Unicup	Jarrah Uplands	3	
48	Unicup	Wandoo Uplands	3	
49	Unicup	Jarrah Valleys	3	
50	Unicup	Wandoo Valleys	3	
51	Unicup	Scrubland	3	
53	Darling Plateau	Wandoo Uplands South	0	
54	Darling Plateau	Wandoo Valleys South	0	

## Appendix 2b

Fauna Habitat ID	FDIS LAND SYSTEM	FDIS LANDSCAPE UNIT	SCORE	Origin
Yellow Winged (New Holland) Honeyeater				
1	Darling Plateau	Jarrah Uplands North	3	
2	Darling Plateau	Jarrah Uplands East	3	
3	Darling Plateau	Jarrah Uplands South	3	
4	Darling Plateau	Jarrah Uplands South East	3	
5	Darling Plateau	Karri Uplands	3	
6	Darling Plateau	Wandoo Uplands North	3	
7	Darling Plateau	Powder Bark Uplands	3	
8	Darling Plateau	Scarp	3	
9	Darling Plateau	Depression / Swamps North	3	
10	Darling Plateau	Depressions / Swamps South	3	
11	Darling Plateau	Depressions / Swamps East	3	
12	Darling Plateau	Depressions / Swamps South East	3	
13	Darling Plateau	Jarrah Valleys North	3	
14	Darling Plateau	Jarrah Valleys East	3	
15	Darling Plateau	Jarrah Valleys South	3	
16	Darling Plateau	Jarrah Valleys South East	3	
17	Darling Plateau	Karri Valleys	3	
18	Darling Plateau	Wandoo Valleys North	3	
19	Darling Plateau	Powder Bark Wandoo Valleys	3	
20	Darling Plateau	Granite Outcrops	3	
21	Various Systems	Esturies / Open Water	0	
22	Collie Plain	Uplands	3	
23	Collie Plain	Depressions / Swamps	3	
24	Dandaragan Plateau	Uplands	3	
25	Dandaragan Plateau	Valleys	3	
26	Swan Coastal Plain	Uplands	3	
27	Swan Coastal Plain	Valleys	3	
28	Southern Plains	Jarrah	3	
29	Southern Plains	Karri	3	
30	Southern Plains	Heath / Sedgeland	3	
31	South Coast Dunes	South Coast Dunes	3	
32	Blackwood Plateau	Jarrah Uplands	3	
33	Blackwood Plateau	Karri Uplands	3	
34	Blackwood Plateau	Depressions / Swamps	3	
35	Blackwood Plateau	Valleys	3	
36	Margaret River Plateau	Jarrah Uplands	3	
37	Margaret River Plateau	Karri Uplands	3	
38	Margaret River Plateau	Jarrah Valleys	3	
39	Margaret River Plateau	Karri Valleys	3	
40	Lewin Naturalist Coast	Jarrah	3	
41	Lewin Naturalist Coast	Marri/Karri	3	
42	Lewin Naturalist Coast	Coast Heath	3	
43	Scott Coastal Plain	Uplands	3	
44	Scott Coastal Plain	Valleys / Swamps	3	
45	Redmond	Uplands	3	
46	Redmond	Valleys	3	
47	Unicup	Jarrah Uplands	3	
48	Unicup	Wandoo Uplands	3	
49	Unicup	Jarrah Valleys	3	
50	Unicup	Wandoo Valleys	3	
51	Unicup	Scrubland	3	
53	Darling Plateau	Wandoo Uplands South	3	
54	Darling Plateau	Wandoo Valleys South	3	

## Appendix 2b

Fauna Habitat ID	FDIS LAND SYSTEM	FDIS LANDSCAPE UNIT	SCORE	Origin
White-cheeked Honeyeater				
1	Darling Plateau	Jarrah Uplands North	0	
2	Darling Plateau	Jarrah Uplands East	0	
3	Darling Plateau	Jarrah Uplands South	0	
4	Darling Plateau	Jarrah Uplands South East	0	
5	Darling Plateau	Karri Uplands	0	
6	Darling Plateau	Wandoo Uplands North	0	
7	Darling Plateau	Powder Bark Uplands	0	
8	Darling Plateau	Scarp	0	
9	Darling Plateau	Depression / Swamps North	0	
10	Darling Plateau	Depressions / Swamps South	1	
11	Darling Plateau	Depressions / Swamps East	0	
12	Darling Plateau	Depressions / Swamps South East	2	
13	Darling Plateau	Jarrah Valleys North	0	
14	Darling Plateau	Jarrah Valleys East	0	
15	Darling Plateau	Jarrah Valleys South	0	
16	Darling Plateau	Jarrah Valleys South East	0	
17	Darling Plateau	Karri Valleys	0	
18	Darling Plateau	Wandoo Valleys North	0	
19	Darling Plateau	Powder Bark Wandoo Valleys	0	
20	Darling Plateau	Granite Outcrops	0	
21	Various Systems	Esturies / Open Water	0	
22	Collie Plain	Uplands	0	
23	Collie Plain	Depressions / Swamps	0	
24	Dandaragan Plateau	Uplands	2	
25	Dandaragan Plateau	Valleys	2	
26	Swan Coastal Plain	Uplands	2	
27	Swan Coastal Plain	Valleys	2	
28	Southern Plains	Jarrah	0	
29	Southern Plains	Karri	0	
30	Southern Plains	Heath / Sedgeland	1	
31	South Coast Dunes	South Coast Dunes	2	
32	Blackwood Plateau	Jarrah Uplands	0	
33	Blackwood Plateau	Karri Uplands	0	
34	Blackwood Plateau	Depressions / Swamps	0	
35	Blackwood Plateau	Valleys	0	
36	Margaret River Plateau	Jarrah Uplands	0	
37	Margaret River Plateau	Karri Uplands	0	
38	Margaret River Plateau	Jarrah Valleys	0	
39	Margaret River Plateau	Karri Valleys	0	
40	Lewin Naturalist Coast	Jarrah	0	
41	Lewin Naturalist Coast	Marri/Karri	0	
42	Lewin Naturalist Coast	Coast Heath	1	
43	Scott Coastal Plain	Uplands	0	
44	Scott Coastal Plain	Valleys / Swamps	0	
45	Redmond	Uplands	0	
46	Redmond	Valleys	1	
47	Unicup	Jarrah Uplands	0	
48	Unicup	Wandoo Uplands	0	
49	Unicup	Jarrah Valleys	0	
50	Unicup	Wandoo Valleys	0	
51	Unicup	Scrubland	0	
53	Darling Plateau	Wandoo Uplands South	0	
54	Darling Plateau	Wandoo Valleys South	0	

## Appendix 2b

Fauna Habitat ID	FDIS LAND SYSTEM	FDIS LANDSCAPE UNIT	SCORE	Origin
Tawny-crowned Honeyeater				
1	Darling Plateau	Jarrah Uplands North	0	
2	Darling Plateau	Jarrah Uplands East	0	
3	Darling Plateau	Jarrah Uplands South	0	
4	Darling Plateau	Jarrah Uplands South East	0	
5	Darling Plateau	Karri Uplands	0	
6	Darling Plateau	Wandoo Uplands North	0	
7	Darling Plateau	Powder Bark Uplands	0	
8	Darling Plateau	Scarp	0	
9	Darling Plateau	Depression / Swamps North	1	
10	Darling Plateau	Depressions / Swamps South	2	
11	Darling Plateau	Depressions / Swamps East	0	
12	Darling Plateau	Depressions / Swamps South East	2	
13	Darling Plateau	Jarrah Valleys North	0	
14	Darling Plateau	Jarrah Valleys East	0	
15	Darling Plateau	Jarrah Valleys South	0	
16	Darling Plateau	Jarrah Valleys South East	1	
17	Darling Plateau	Karri Valleys	0	
18	Darling Plateau	Wandoo Valleys North	0	
19	Darling Plateau	Powder Bark Wandoo Valleys	0	
20	Darling Plateau	Granite Outcrops	0	
21	Various Systems	Esturies / Open Water	0	
22	Collie Plain	Uplands	0	
23	Collie Plain	Depressions / Swamps	0	
24	Dandaragan Plateau	Uplands	0	
25	Dandaragan Plateau	Valleys	0	
26	Swan Coastal Plain	Uplands	3	
27	Swan Coastal Plain	Valleys	3	
28	Southern Plains	Jarrah	2	
29	Southern Plains	Karri	1	
30	Southern Plains	Heath / Sedgeland	3	
31	South Coast Dunes	South Coast Dunes	3	
32	Blackwood Plateau	Jarrah Uplands	0	
33	Blackwood Plateau	Karri Uplands	0	
34	Blackwood Plateau	Depressions / Swamps	0	
35	Blackwood Plateau	Valleys	0	
36	Margaret River Plateau	Jarrah Uplands	0	
37	Margaret River Plateau	Karri Uplands	0	
38	Margaret River Plateau	Jarrah Valleys	0	
39	Margaret River Plateau	Karri Valleys	0	
40	Lewin Naturalist Coast	Jarrah	0	
41	Lewin Naturalist Coast	Marri/Karri	0	
42	Lewin Naturalist Coast	Coast Heath	2	
43	Scott Coastal Plain	Uplands	2	
44	Scott Coastal Plain	Valleys / Swamps	3	
45	Redmond	Uplands	2	
46	Redmond	Valleys	3	
47	Unicup	Jarrah Uplands	0	
48	Unicup	Wandoo Uplands	0	
49	Unicup	Jarrah Valleys	0	
50	Unicup	Wandoo Valleys	0	
51	Unicup	Scrubland	0	
53	Darling Plateau	Wandoo Uplands South	0	
54	Darling Plateau	Wandoo Valleys South	0	

## Appendix 2b

Fauna Habitat ID	FDIS LAND SYSTEM	FDIS LANDSCAPE UNIT	SCORE	Origin
Western Spinebill				
1	Darling Plateau	Jarrah Uplands North	2	
2	Darling Plateau	Jarrah Uplands East	2	
3	Darling Plateau	Jarrah Uplands South	2	
4	Darling Plateau	Jarrah Uplands South East	2	
5	Darling Plateau	Karri Uplands	1	
6	Darling Plateau	Wandoo Uplands North	2	
7	Darling Plateau	Powder Bark Uplands	2	
8	Darling Plateau	Scarp	2	
9	Darling Plateau	Depression / Swamps North	3	
10	Darling Plateau	Depressions / Swamps South	2	
11	Darling Plateau	Depressions / Swamps East	2	
12	Darling Plateau	Depressions / Swamps South East	3	
13	Darling Plateau	Jarrah Valleys North	2	
14	Darling Plateau	Jarrah Valleys East	2	
15	Darling Plateau	Jarrah Valleys South	2	
16	Darling Plateau	Jarrah Valleys South East	2	
17	Darling Plateau	Karri Valleys	1	
18	Darling Plateau	Wandoo Valleys North	2	
19	Darling Plateau	Powder Bark Wandoo Valleys	2	
20	Darling Plateau	Granite Outcrops	1	
21	Various Systems	Esturies / Open Water	0	
22	Collie Plain	Uplands	2	
23	Collie Plain	Depressions / Swamps	1	
24	Dandaragan Plateau	Uplands	3	
25	Dandaragan Plateau	Valleys	2	
26	Swan Coastal Plain	Uplands	3	
27	Swan Coastal Plain	Valleys	3	
28	Southern Plains	Jarrah	3	
29	Southern Plains	Karri	2	
30	Southern Plains	Heath / Sedgeland	3	
31	South Coast Dunes	South Coast Dunes	3	
32	Blackwood Plateau	Jarrah Uplands	2	
33	Blackwood Plateau	Karri Uplands	1	
34	Blackwood Plateau	Depressions / Swamps	3	
35	Blackwood Plateau	Valleys	2	
36	Margaret River Plateau	Jarrah Uplands	2	
37	Margaret River Plateau	Karri Uplands	1	
38	Margaret River Plateau	Jarrah Valleys	2	
39	Margaret River Plateau	Karri Valleys	1	
40	Lewin Naturalist Coast	Jarrah	2	
41	Lewin Naturalist Coast	Marri/Karri	1	
42	Lewin Naturalist Coast	Coast Heath	3	
43	Scott Coastal Plain	Uplands	3	
44	Scott Coastal Plain	Valleys / Swamps	3	
45	Redmond	Uplands	3	
46	Redmond	Valleys	3	
47	Unicup	Jarrah Uplands	2	
48	Unicup	Wandoo Uplands	2	
49	Unicup	Jarrah Valleys	2	
50	Unicup	Wandoo Valleys	2	
51	Unicup	Scrubland	2	
53	Darling Plateau	Wandoo Uplands South	2	
54	Darling Plateau	Wandoo Valleys South	2	



## Appendix 2b

Fauna Habitat ID	FDIS LAND SYSTEM	FDIS LANDSCAPE UNIT	SCORE	Origin
White-fronted Chat				
1	Darling Plateau	Jarrah Uplands North	0	
2	Darling Plateau	Jarrah Uplands East	0	
3	Darling Plateau	Jarrah Uplands South	0	
4	Darling Plateau	Jarrah Uplands South East	0	
5	Darling Plateau	Karri Uplands	0	
6	Darling Plateau	Wandoo Uplands North	0	
7	Darling Plateau	Powder Bark Uplands	0	
8	Darling Plateau	Scarp	0	
9	Darling Plateau	Depression / Swamps North	0	
10	Darling Plateau	Depressions / Swamps South	0	
11	Darling Plateau	Depressions / Swamps East	0	
12	Darling Plateau	Depressions / Swamps South East	0	
13	Darling Plateau	Jarrah Valleys North	0	
14	Darling Plateau	Jarrah Valleys East	0	
15	Darling Plateau	Jarrah Valleys South	0	
16	Darling Plateau	Jarrah Valleys South East	0	
17	Darling Plateau	Karri Valleys	0	
18	Darling Plateau	Wandoo Valleys North	0	
19	Darling Plateau	Powder Bark Wandoo Valleys	0	
20	Darling Plateau	Granite Outcrops	0	
21	Various Systems	Esturies / Open Water	0	
22	Collie Plain	Uplands	0	
23	Collie Plain	Depressions / Swamps	0	
24	Dandaragan Plateau	Uplands	1	
25	Dandaragan Plateau	Valleys	1	
26	Swan Coastal Plain	Uplands	1	
27	Swan Coastal Plain	Valleys	1	
28	Southern Plains	Jarrah	0	
29	Southern Plains	Karri	0	
30	Southern Plains	Heath / Sedgeland	0	
31	South Coast Dunes	South Coast Dunes	0	
32	Blackwood Plateau	Jarrah Uplands	0	
33	Blackwood Plateau	Karri Uplands	0	
34	Blackwood Plateau	Depressions / Swamps	0	
35	Blackwood Plateau	Valleys	0	
36	Margaret River Plateau	Jarrah Uplands	0	
37	Margaret River Plateau	Karri Uplands	0	
38	Margaret River Plateau	Jarrah Valleys	0	
39	Margaret River Plateau	Karri Valleys	0	
40	Lewin Naturalist Coast	Jarrah	0	
41	Lewin Naturalist Coast	Marri/Karri	0	
42	Lewin Naturalist Coast	Coast Heath	0	
43	Scott Coastal Plain	Uplands	0	
44	Scott Coastal Plain	Valleys / Swamps	0	
45	Redmond	Uplands	0	
46	Redmond	Valleys	0	
47	Unicup	Jarrah Uplands	0	
48	Unicup	Wandoo Uplands	0	
49	Unicup	Jarrah Valleys	0	
50	Unicup	Wandoo Valleys	0	
51	Unicup	Scrubland	0	
53	Darling Plateau	Wandoo Uplands South	0	
54	Darling Plateau	Wandoo Valleys South	0	

## Appendix 2b

Fauna Habitat ID	FDIS LAND SYSTEM	FDIS LANDSCAPE UNIT	SCORE	Origin
Mistletoebird				
1	Darling Plateau	Jarrah Uplands North	1	
2	Darling Plateau	Jarrah Uplands East	1	
3	Darling Plateau	Jarrah Uplands South	0	
4	Darling Plateau	Jarrah Uplands South East	1	
5	Darling Plateau	Karri Uplands	0	
6	Darling Plateau	Wandoo Uplands North	0	
7	Darling Plateau	Powder Bark Uplands	0	
8	Darling Plateau	Scarp	1	
9	Darling Plateau	Depression / Swamps North	1	
10	Darling Plateau	Depressions / Swamps South	0	
11	Darling Plateau	Depressions / Swamps East	0	
12	Darling Plateau	Depressions / Swamps South East	0	
13	Darling Plateau	Jarrah Valleys North	1	
14	Darling Plateau	Jarrah Valleys East	1	
15	Darling Plateau	Jarrah Valleys South	0	
16	Darling Plateau	Jarrah Valleys South East	1	
17	Darling Plateau	Karri Valleys	0	
18	Darling Plateau	Wandoo Valleys North	0	
19	Darling Plateau	Powder Bark Wandoo Valleys	0	
20	Darling Plateau	Granite Outcrops	0	
21	Various Systems	Esturies / Open Water	0	
22	Collie Plain	Uplands	0	
23	Collie Plain	Depressions / Swamps	1	
24	Dandaragan Plateau	Uplands	1	
25	Dandaragan Plateau	Valleys	0	
26	Swan Coastal Plain	Uplands	0	
27	Swan Coastal Plain	Valleys	1	
28	Southern Plains	Jarrah	0	
29	Southern Plains	Karri	0	
30	Southern Plains	Heath / Sedgeland	0	
31	South Coast Dunes	South Coast Dunes	0	
32	Blackwood Plateau	Jarrah Uplands	0	
33	Blackwood Plateau	Karri Uplands	0	
34	Blackwood Plateau	Depressions / Swamps	0	
35	Blackwood Plateau	Valleys	1	
36	Margaret River Plateau	Jarrah Uplands	0	
37	Margaret River Plateau	Karri Uplands	0	
38	Margaret River Plateau	Jarrah Valleys	1	
39	Margaret River Plateau	Karri Valleys	0	
40	Lewin Naturalist Coast	Jarrah	0	
41	Lewin Naturalist Coast	Marri/Karri	0	
42	Lewin Naturalist Coast	Coast Heath	0	
43	Scott Coastal Plain	Uplands	0	
44	Scott Coastal Plain	Valleys / Swamps	0	
45	Redmond	Uplands	1	
46	Redmond	Valleys	1	
47	Unicup	Jarrah Uplands	1	
48	Unicup	Wandoo Uplands	1	
49	Unicup	Jarrah Valleys	1	
50	Unicup	Wandoo Valleys	1	
51	Unicup	Scrubland	1	
53	Darling Plateau	Wandoo Uplands South	0	
54	Darling Plateau	Wandoo Valleys South	0	

## Appendix 2b

Fauna Habitat ID	FDIS LAND SYSTEM	FDIS LANDSCAPE UNIT	SCORE	Origin
Spotted Pardalote				
1	Darling Plateau	Jarrah Uplands North	3	
2	Darling Plateau	Jarrah Uplands East	3	
3	Darling Plateau	Jarrah Uplands South	3	
4	Darling Plateau	Jarrah Uplands South East	3	
5	Darling Plateau	Karri Uplands	3	
6	Darling Plateau	Wandoo Uplands North	3	
7	Darling Plateau	Powder Bark Uplands	3	
8	Darling Plateau	Scarp	3	
9	Darling Plateau	Depression / Swamps North	3	
10	Darling Plateau	Depressions / Swamps South	3	
11	Darling Plateau	Depressions / Swamps East	3	
12	Darling Plateau	Depressions / Swamps South East	3	
13	Darling Plateau	Jarrah Valleys North	3	
14	Darling Plateau	Jarrah Valleys East	3	
15	Darling Plateau	Jarrah Valleys South	3	
16	Darling Plateau	Jarrah Valleys South East	3	
17	Darling Plateau	Karri Valleys	3	
18	Darling Plateau	Wandoo Valleys North	3	
19	Darling Plateau	Powder Bark Wandoo Valleys	3	
20	Darling Plateau	Granite Outcrops	3	
21	Various Systems	Esturies / Open Water	0	
22	Collie Plain	Uplands	3	
23	Collie Plain	Depressions / Swamps	3	
24	Dandaragan Plateau	Uplands	3	
25	Dandaragan Plateau	Valleys	3	
26	Swan Coastal Plain	Uplands	3	
27	Swan Coastal Plain	Valleys	3	
28	Southern Plains	Jarrah	3	
29	Southern Plains	Karri	3	
30	Southern Plains	Heath / Sedgeland	3	
31	South Coast Dunes	South Coast Dunes	3	
32	Blackwood Plateau	Jarrah Uplands	3	
33	Blackwood Plateau	Karri Uplands	3	
34	Blackwood Plateau	Depressions / Swamps	3	
35	Blackwood Plateau	Valleys	3	
36	Margaret River Plateau	Jarrah Uplands	3	
37	Margaret River Plateau	Karri Uplands	3	
38	Margaret River Plateau	Jarrah Valleys	3	
39	Margaret River Plateau	Karri Valleys	3	
40	Lewin Naturalist Coast	Jarrah	3	
41	Lewin Naturalist Coast	Marri/Karri	3	
42	Lewin Naturalist Coast	Coast Heath	3	
43	Scott Coastal Plain	Uplands	3	
44	Scott Coastal Plain	Valleys / Swamps	3	
45	Redmond	Uplands	3	
46	Redmond	Valleys	3	
47	Unicup	Jarrah Uplands	3	
48	Unicup	Wandoo Uplands	3	
49	Unicup	Jarrah Valleys	3	
50	Unicup	Wandoo Valleys	3	
51	Unicup	Scrubland	3	
53	Darling Plateau	Wandoo Uplands South	3	
54	Darling Plateau	Wandoo Valleys South	3	

## Appendix 2b

Fauna Habitat ID	FDIS LAND SYSTEM	FDIS LANDSCAPE UNIT	SCORE	Origin
Striated Pardalote				
1	Darling Plateau	Jarrah Uplands North	3	
2	Darling Plateau	Jarrah Uplands East	3	
3	Darling Plateau	Jarrah Uplands South	3	
4	Darling Plateau	Jarrah Uplands South East	3	
5	Darling Plateau	Karri Uplands	3	
6	Darling Plateau	Wandoo Uplands North	3	
7	Darling Plateau	Powder Bark Uplands	3	
8	Darling Plateau	Scarp	3	
9	Darling Plateau	Depression / Swamps North	3	
10	Darling Plateau	Depressions / Swamps South	3	
11	Darling Plateau	Depressions / Swamps East	3	
12	Darling Plateau	Depressions / Swamps South East	3	
13	Darling Plateau	Jarrah Valleys North	3	
14	Darling Plateau	Jarrah Valleys East	3	
15	Darling Plateau	Jarrah Valleys South	3	
16	Darling Plateau	Jarrah Valleys South East	3	
17	Darling Plateau	Karri Valleys	3	
18	Darling Plateau	Wandoo Valleys North	3	
19	Darling Plateau	Powder Bark Wandoo Valleys	3	
20	Darling Plateau	Granite Outcrops	3	
21	Various Systems	Esturies / Open Water	0	
22	Collie Plain	Uplands	3	
23	Collie Plain	Depressions / Swamps	3	
24	Dandaragan Plateau	Uplands	3	
25	Dandaragan Plateau	Valleys	3	
26	Swan Coastal Plain	Uplands	3	
27	Swan Coastal Plain	Valleys	3	
28	Southern Plains	Jarrah	3	
29	Southern Plains	Karri	3	
30	Southern Plains	Heath / Sedgeland	3	
31	South Coast Dunes	South Coast Dunes	3	
32	Blackwood Plateau	Jarrah Uplands	3	
33	Blackwood Plateau	Karri Uplands	3	
34	Blackwood Plateau	Depressions / Swamps	3	
35	Blackwood Plateau	Valleys	3	
36	Margaret River Plateau	Jarrah Uplands	3	
37	Margaret River Plateau	Karri Uplands	3	
38	Margaret River Plateau	Jarrah Valleys	3	
39	Margaret River Plateau	Karri Valleys	3	
40	Lewin Naturalist Coast	Jarrah	3	
41	Lewin Naturalist Coast	Marri/Karri	3	
42	Lewin Naturalist Coast	Coast Heath	3	
43	Scott Coastal Plain	Uplands	3	
44	Scott Coastal Plain	Valleys / Swamps	3	
45	Redmond	Uplands	3	
46	Redmond	Valleys	3	
47	Unicup	Jarrah Uplands	3	
48	Unicup	Wandoo Uplands	3	
49	Unicup	Jarrah Valleys	3	
50	Unicup	Wandoo Valleys	3	
51	Unicup	Scrubland	3	
53	Darling Plateau	Wandoo Uplands South	3	
54	Darling Plateau	Wandoo Valleys South	3	

## Appendix 2b

Fauna Habitat ID	FDIS LAND SYSTEM	FDIS LANDSCAPE UNIT	SCORE	Origin
Silvereye				
1	Darling Plateau	Jarrah Uplands North	3	
2	Darling Plateau	Jarrah Uplands East	3	
3	Darling Plateau	Jarrah Uplands South	3	
4	Darling Plateau	Jarrah Uplands South East	3	
5	Darling Plateau	Karri Uplands	3	
6	Darling Plateau	Wandoo Uplands North	3	
7	Darling Plateau	Powder Bark Uplands	3	
8	Darling Plateau	Scarp	3	
9	Darling Plateau	Depression / Swamps North	3	
10	Darling Plateau	Depressions / Swamps South	3	
11	Darling Plateau	Depressions / Swamps East	3	
12	Darling Plateau	Depressions / Swamps South East	3	
13	Darling Plateau	Jarrah Valleys North	3	
14	Darling Plateau	Jarrah Valleys East	3	
15	Darling Plateau	Jarrah Valleys South	3	
16	Darling Plateau	Jarrah Valleys South East	3	
17	Darling Plateau	Karri Valleys	3	
18	Darling Plateau	Wandoo Valleys North	3	
19	Darling Plateau	Powder Bark Wandoo Valleys	3	
20	Darling Plateau	Granite Outcrops	3	
21	Various Systems	Esturies / Open Water	0	
22	Collie Plain	Uplands	3	
23	Collie Plain	Depressions / Swamps	3	
24	Dandaragan Plateau	Uplands	3	
25	Dandaragan Plateau	Valleys	3	
26	Swan Coastal Plain	Uplands	3	
27	Swan Coastal Plain	Valleys	3	
28	Southern Plains	Jarrah	3	
29	Southern Plains	Karri	3	
30	Southern Plains	Heath / Sedgeland	3	
31	South Coast Dunes	South Coast Dunes	3	
32	Blackwood Plateau	Jarrah Uplands	3	
33	Blackwood Plateau	Karri Uplands	3	
34	Blackwood Plateau	Depressions / Swamps	3	
35	Blackwood Plateau	Valleys	3	
36	Margaret River Plateau	Jarrah Uplands	3	
37	Margaret River Plateau	Karri Uplands	3	
38	Margaret River Plateau	Jarrah Valleys	3	
39	Margaret River Plateau	Karri Valleys	3	
40	Lewin Naturalist Coast	Jarrah	3	
41	Lewin Naturalist Coast	Marri/Karri	3	
42	Lewin Naturalist Coast	Coast Heath	3	
43	Scott Coastal Plain	Uplands	3	
44	Scott Coastal Plain	Valleys / Swamps	3	
45	Redmond	Uplands	3	
46	Redmond	Valleys	3	
47	Unicup	Jarrah Uplands	3	
48	Unicup	Wandoo Uplands	3	
49	Unicup	Jarrah Valleys	3	
50	Unicup	Wandoo Valleys	3	
51	Unicup	Scrubland	3	
53	Darling Plateau	Wandoo Uplands South	3	
54	Darling Plateau	Wandoo Valleys South	3	

## Appendix 2b

Fauna Habitat ID	FDIS LAND SYSTEM	FDIS LANDSCAPE UNIT	SCORE	Origin
Red-eared Firetail				
1	Darling Plateau	Jarrah Uplands North	0	
2	Darling Plateau	Jarrah Uplands East	0	
3	Darling Plateau	Jarrah Uplands South	2	
4	Darling Plateau	Jarrah Uplands South East	0	
5	Darling Plateau	Karri Uplands	2	
6	Darling Plateau	Wandoo Uplands North	0	
7	Darling Plateau	Powder Bark Uplands	0	
8	Darling Plateau	Scarp	2	
9	Darling Plateau	Depression / Swamps North	2	
10	Darling Plateau	Depressions / Swamps South	3	
11	Darling Plateau	Depressions / Swamps East	2	
12	Darling Plateau	Depressions / Swamps South East	3	
13	Darling Plateau	Jarrah Valleys North	2	
14	Darling Plateau	Jarrah Valleys East	0	
15	Darling Plateau	Jarrah Valleys South	3	
16	Darling Plateau	Jarrah Valleys South East	0	
17	Darling Plateau	Karri Valleys	3	
18	Darling Plateau	Wandoo Valleys North	0	
19	Darling Plateau	Powder Bark Wandoo Valleys	0	
20	Darling Plateau	Granite Outcrops	1	
21	Various Systems	Esturies / Open Water	2	
22	Collie Plain	Uplands	0	
23	Collie Plain	Depressions / Swamps	0	
24	Dandaragan Plateau	Uplands	0	
25	Dandaragan Plateau	Valleys	0	
26	Swan Coastal Plain	Uplands	2	
27	Swan Coastal Plain	Valleys	2	
28	Southern Plains	Jarrah	0	
29	Southern Plains	Karri	2	
30	Southern Plains	Heath / Sedgeland	2	
31	South Coast Dunes	South Coast Dunes	3	
32	Blackwood Plateau	Jarrah Uplands	2	
33	Blackwood Plateau	Karri Uplands	2	
34	Blackwood Plateau	Depressions / Swamps	3	
35	Blackwood Plateau	Valleys	3	
36	Margaret River Plateau	Jarrah Uplands	2	
37	Margaret River Plateau	Karri Uplands	2	
38	Margaret River Plateau	Jarrah Valleys	2	
39	Margaret River Plateau	Karri Valleys	3	
40	Lewin Naturalist Coast	Jarrah	2	
41	Lewin Naturalist Coast	Marri/Karri	2	
42	Lewin Naturalist Coast	Coast Heath	2	
43	Scott Coastal Plain	Uplands	0	
44	Scott Coastal Plain	Valleys / Swamps	2	
45	Redmond	Uplands	0	
46	Redmond	Valleys	3	
47	Unicup	Jarrah Uplands	0	
48	Unicup	Wandoo Uplands	0	
49	Unicup	Jarrah Valleys	0	
50	Unicup	Wandoo Valleys	0	
51	Unicup	Scrubland	0	
53	Darling Plateau	Wandoo Uplands South	0	
54	Darling Plateau	Wandoo Valleys South	0	

## Appendix 2b

Fauna Habitat ID	FDIS LAND SYSTEM	FDIS LANDSCAPE UNIT	SCORE	Origin
Australian Magpie-lark				
1	Darling Plateau	Jarrah Uplands North	0	
2	Darling Plateau	Jarrah Uplands East	0	
3	Darling Plateau	Jarrah Uplands South	0	
4	Darling Plateau	Jarrah Uplands South East	0	
5	Darling Plateau	Karri Uplands	0	
6	Darling Plateau	Wandoo Uplands North	0	
7	Darling Plateau	Powder Bark Uplands	0	
8	Darling Plateau	Scarp	0	
9	Darling Plateau	Depression / Swamps North	1	
10	Darling Plateau	Depressions / Swamps South	1	
11	Darling Plateau	Depressions / Swamps East	1	
12	Darling Plateau	Depressions / Swamps South East	1	
13	Darling Plateau	Jarrah Valleys North	3	
14	Darling Plateau	Jarrah Valleys East	3	
15	Darling Plateau	Jarrah Valleys South	2	
16	Darling Plateau	Jarrah Valleys South East	3	
17	Darling Plateau	Karri Valleys	0	
18	Darling Plateau	Wandoo Valleys North	2	
19	Darling Plateau	Powder Bark Wandoo Valleys	1	
20	Darling Plateau	Granite Outcrops	1	
21	Various Systems	Esturies / Open Water	2	
22	Collie Plain	Uplands	0	
23	Collie Plain	Depressions / Swamps	1	
24	Dandaragan Plateau	Uplands	0	
25	Dandaragan Plateau	Valleys	2	
26	Swan Coastal Plain	Uplands	0	
27	Swan Coastal Plain	Valleys	2	
28	Southern Plains	Jarrah	0	
29	Southern Plains	Karri	0	
30	Southern Plains	Heath / Sedgeland	0	
31	South Coast Dunes	South Coast Dunes	0	
32	Blackwood Plateau	Jarrah Uplands	0	
33	Blackwood Plateau	Karri Uplands	0	
34	Blackwood Plateau	Depressions / Swamps	0	
35	Blackwood Plateau	Valleys	2	
36	Margaret River Plateau	Jarrah Uplands	0	
37	Margaret River Plateau	Karri Uplands	0	
38	Margaret River Plateau	Jarrah Valleys	2	
39	Margaret River Plateau	Karri Valleys	0	
40	Lewin Naturalist Coast	Jarrah	0	
41	Lewin Naturalist Coast	Marri/Karri	0	
42	Lewin Naturalist Coast	Coast Heath	0	
43	Scott Coastal Plain	Uplands	0	
44	Scott Coastal Plain	Valleys / Swamps	2	
45	Redmond	Uplands	0	
46	Redmond	Valleys	2	
47	Unicup	Jarrah Uplands	0	
48	Unicup	Wandoo Uplands	0	
49	Unicup	Jarrah Valleys	3	
50	Unicup	Wandoo Valleys	0	
51	Unicup	Scrubland	0	
53	Darling Plateau	Wandoo Uplands South	0	
54	Darling Plateau	Wandoo Valleys South	2	

## Appendix 2b

Fauna Habitat ID	FDIS LAND SYSTEM	FDIS LANDSCAPE UNIT	SCORE	Origin
Black-faced Woodswallow				
1	Darling Plateau	Jarrah Uplands North	0	
2	Darling Plateau	Jarrah Uplands East	0	
3	Darling Plateau	Jarrah Uplands South	0	
4	Darling Plateau	Jarrah Uplands South East	0	
5	Darling Plateau	Karri Uplands	0	
6	Darling Plateau	Wandoo Uplands North	1	
7	Darling Plateau	Powder Bark Uplands	1	
8	Darling Plateau	Scarp	0	
9	Darling Plateau	Depression / Swamps North	0	
10	Darling Plateau	Depressions / Swamps South	0	
11	Darling Plateau	Depressions / Swamps East	0	
12	Darling Plateau	Depressions / Swamps South East	0	
13	Darling Plateau	Jarrah Valleys North	0	
14	Darling Plateau	Jarrah Valleys East	0	
15	Darling Plateau	Jarrah Valleys South	0	
16	Darling Plateau	Jarrah Valleys South East	0	
17	Darling Plateau	Karri Valleys	0	
18	Darling Plateau	Wandoo Valleys North	1	
19	Darling Plateau	Powder Bark Wandoo Valleys	1	
20	Darling Plateau	Granite Outcrops	0	
21	Various Systems	Esturies / Open Water	0	
22	Collie Plain	Uplands	0	
23	Collie Plain	Depressions / Swamps	0	
24	Dandaragan Plateau	Uplands	1	
25	Dandaragan Plateau	Valleys	1	
26	Swan Coastal Plain	Uplands	1	
27	Swan Coastal Plain	Valleys	1	
28	Southern Plains	Jarrah	0	
29	Southern Plains	Karri	0	
30	Southern Plains	Heath / Sedgeland	0	
31	South Coast Dunes	South Coast Dunes	0	
32	Blackwood Plateau	Jarrah Uplands	0	
33	Blackwood Plateau	Karri Uplands	0	
34	Blackwood Plateau	Depressions / Swamps	0	
35	Blackwood Plateau	Valleys	0	
36	Margaret River Plateau	Jarrah Uplands	0	
37	Margaret River Plateau	Karri Uplands	0	
38	Margaret River Plateau	Jarrah Valleys	0	
39	Margaret River Plateau	Karri Valleys	0	
40	Lewin Naturalist Coast	Jarrah	0	
41	Lewin Naturalist Coast	Marri/Karri	0	
42	Lewin Naturalist Coast	Coast Heath	0	
43	Scott Coastal Plain	Uplands	0	
44	Scott Coastal Plain	Valleys / Swamps	0	
45	Redmond	Uplands	0	
46	Redmond	Valleys	0	
47	Unicup	Jarrah Uplands	0	
48	Unicup	Wandoo Uplands	0	
49	Unicup	Jarrah Valleys	0	
50	Unicup	Wandoo Valleys	0	
51	Unicup	Scrubland	0	
53	Darling Plateau	Wandoo Uplands South	0	
54	Darling Plateau	Wandoo Valleys South	0	



## Appendix 2b

Fauna Habitat ID	FDIS LAND SYSTEM	FDIS LANDSCAPE UNIT	SCORE	Origin
Dusky Woodswallow				
1	Darling Plateau	Jarrah Uplands North	3	
2	Darling Plateau	Jarrah Uplands East	3	
3	Darling Plateau	Jarrah Uplands South	3	
4	Darling Plateau	Jarrah Uplands South East	3	
5	Darling Plateau	Karri Uplands	3	
6	Darling Plateau	Wandoo Uplands North	3	
7	Darling Plateau	Powder Bark Uplands	3	
8	Darling Plateau	Scarp	3	
9	Darling Plateau	Depression / Swamps North	3	
10	Darling Plateau	Depressions / Swamps South	3	
11	Darling Plateau	Depressions / Swamps East	3	
12	Darling Plateau	Depressions / Swamps South East	3	
13	Darling Plateau	Jarrah Valleys North	3	
14	Darling Plateau	Jarrah Valleys East	3	
15	Darling Plateau	Jarrah Valleys South	3	
16	Darling Plateau	Jarrah Valleys South East	3	
17	Darling Plateau	Karri Valleys	3	
18	Darling Plateau	Wandoo Valleys North	3	
19	Darling Plateau	Powder Bark Wandoo Valleys	3	
20	Darling Plateau	Granite Outcrops	3	
21	Various Systems	Esturies / Open Water	0	
22	Collie Plain	Uplands	3	
23	Collie Plain	Depressions / Swamps	3	
24	Dandaragan Plateau	Uplands	3	
25	Dandaragan Plateau	Valleys	3	
26	Swan Coastal Plain	Uplands	3	
27	Swan Coastal Plain	Valleys	3	
28	Southern Plains	Jarrah	3	
29	Southern Plains	Karri	3	
30	Southern Plains	Heath / Sedgeland	3	
31	South Coast Dunes	South Coast Dunes	3	
32	Blackwood Plateau	Jarrah Uplands	3	
33	Blackwood Plateau	Karri Uplands	3	
34	Blackwood Plateau	Depressions / Swamps	3	
35	Blackwood Plateau	Valleys	3	
36	Margaret River Plateau	Jarrah Uplands	3	
37	Margaret River Plateau	Karri Uplands	3	
38	Margaret River Plateau	Jarrah Valleys	3	
39	Margaret River Plateau	Karri Valleys	3	
40	Lewin Naturalist Coast	Jarrah	3	
41	Lewin Naturalist Coast	Marri/Karri	3	
42	Lewin Naturalist Coast	Coast Heath	3	
43	Scott Coastal Plain	Uplands	3	
44	Scott Coastal Plain	Valleys / Swamps	3	
45	Redmond	Uplands	3	
46	Redmond	Valleys	3	
47	Unicup	Jarrah Uplands	3	
48	Unicup	Wandoo Uplands	3	
49	Unicup	Jarrah Valleys	3	
50	Unicup	Wandoo Valleys	3	
51	Unicup	Scrubland	3	
53	Darling Plateau	Wandoo Uplands South	3	
54	Darling Plateau	Wandoo Valleys South	3	

## Appendix 2b

Fauna Habitat ID	FDIS LAND SYSTEM	FDIS LANDSCAPE UNIT	SCORE	Origin
Grey Butcherbird				
1	Darling Plateau	Jarrah Uplands North	1	
2	Darling Plateau	Jarrah Uplands East	2	
3	Darling Plateau	Jarrah Uplands South	0	
4	Darling Plateau	Jarrah Uplands South East	1	
5	Darling Plateau	Karri Uplands	0	
6	Darling Plateau	Wandoo Uplands North	2	
7	Darling Plateau	Powder Bark Uplands	2	
8	Darling Plateau	Scarp	1	
9	Darling Plateau	Depression / Swamps North	2	
10	Darling Plateau	Depressions / Swamps South	0	
11	Darling Plateau	Depressions / Swamps East	1	
12	Darling Plateau	Depressions / Swamps South East	0	
13	Darling Plateau	Jarrah Valleys North	1	
14	Darling Plateau	Jarrah Valleys East	2	
15	Darling Plateau	Jarrah Valleys South	0	
16	Darling Plateau	Jarrah Valleys South East	1	
17	Darling Plateau	Karri Valleys	0	
18	Darling Plateau	Wandoo Valleys North	2	
19	Darling Plateau	Powder Bark Wandoo Valleys	2	
20	Darling Plateau	Granite Outcrops	0	
21	Various Systems	Esturies / Open Water	0	
22	Collie Plain	Uplands	1	
23	Collie Plain	Depressions / Swamps	1	
24	Dandaragan Plateau	Uplands	2	
25	Dandaragan Plateau	Valleys	2	
26	Swan Coastal Plain	Uplands	3	
27	Swan Coastal Plain	Valleys	3	
28	Southern Plains	Jarrah	1	
29	Southern Plains	Karri	0	
30	Southern Plains	Heath / Sedgeland	1	
31	South Coast Dunes	South Coast Dunes	2	
32	Blackwood Plateau	Jarrah Uplands	1	
33	Blackwood Plateau	Karri Uplands	0	
34	Blackwood Plateau	Depressions / Swamps	2	
35	Blackwood Plateau	Valleys	0	
36	Margaret River Plateau	Jarrah Uplands	0	
37	Margaret River Plateau	Karri Uplands	0	
38	Margaret River Plateau	Jarrah Valleys	0	
39	Margaret River Plateau	Karri Valleys	0	
40	Lewin Naturalist Coast	Jarrah	0	
41	Lewin Naturalist Coast	Marri/Karri	0	
42	Lewin Naturalist Coast	Coast Heath	2	
43	Scott Coastal Plain	Uplands	2	
44	Scott Coastal Plain	Valleys / Swamps	0	
45	Redmond	Uplands	2	
46	Redmond	Valleys	0	
47	Unicup	Jarrah Uplands	2	
48	Unicup	Wandoo Uplands	2	
49	Unicup	Jarrah Valleys	2	
50	Unicup	Wandoo Valleys	2	
51	Unicup	Scrubland	2	
53	Darling Plateau	Wandoo Uplands South	2	
54	Darling Plateau	Wandoo Valleys South	2	

## Appendix 2b

Fauna Habitat ID	FDIS LAND SYSTEM	FDIS LANDSCAPE UNIT	SCORE	Origin
Australian Magpie				
1	Darling Plateau	Jarrah Uplands North	3	
2	Darling Plateau	Jarrah Uplands East	3	
3	Darling Plateau	Jarrah Uplands South	1	
4	Darling Plateau	Jarrah Uplands South East	3	
5	Darling Plateau	Karri Uplands	1	
6	Darling Plateau	Wandoo Uplands North	3	
7	Darling Plateau	Powder Bark Uplands	3	
8	Darling Plateau	Scarp	3	
9	Darling Plateau	Depression / Swamps North	3	
10	Darling Plateau	Depressions / Swamps South	1	
11	Darling Plateau	Depressions / Swamps East	2	
12	Darling Plateau	Depressions / Swamps South East	2	
13	Darling Plateau	Jarrah Valleys North	3	
14	Darling Plateau	Jarrah Valleys East	3	
15	Darling Plateau	Jarrah Valleys South	1	
16	Darling Plateau	Jarrah Valleys South East	3	
17	Darling Plateau	Karri Valleys	1	
18	Darling Plateau	Wandoo Valleys North	3	
19	Darling Plateau	Powder Bark Wandoo Valleys	3	
20	Darling Plateau	Granite Outcrops	2	
21	Various Systems	Esturies / Open Water	0	
22	Collie Plain	Uplands	3	
23	Collie Plain	Depressions / Swamps	3	
24	Dandaragan Plateau	Uplands	3	
25	Dandaragan Plateau	Valleys	3	
26	Swan Coastal Plain	Uplands	3	
27	Swan Coastal Plain	Valleys	3	
28	Southern Plains	Jarrah	2	
29	Southern Plains	Karri	2	
30	Southern Plains	Heath / Sedgeland	3	
31	South Coast Dunes	South Coast Dunes	3	
32	Blackwood Plateau	Jarrah Uplands	2	
33	Blackwood Plateau	Karri Uplands	2	
34	Blackwood Plateau	Depressions / Swamps	3	
35	Blackwood Plateau	Valleys	2	
36	Margaret River Plateau	Jarrah Uplands	2	
37	Margaret River Plateau	Karri Uplands	2	
38	Margaret River Plateau	Jarrah Valleys	2	
39	Margaret River Plateau	Karri Valleys	2	
40	Lewin Naturalist Coast	Jarrah	2	
41	Lewin Naturalist Coast	Marri/Karri	2	
42	Lewin Naturalist Coast	Coast Heath	3	
43	Scott Coastal Plain	Uplands	2	
44	Scott Coastal Plain	Valleys / Swamps	3	
45	Redmond	Uplands	3	
46	Redmond	Valleys	3	
47	Unicup	Jarrah Uplands	3	
48	Unicup	Wandoo Uplands	3	
49	Unicup	Jarrah Valleys	3	
50	Unicup	Wandoo Valleys	3	
51	Unicup	Scrubland	3	
53	Darling Plateau	Wandoo Uplands South	3	
54	Darling Plateau	Wandoo Valleys South	3	

## Appendix 2b

Fauna Habitat ID	FDIS LAND SYSTEM	FDIS LANDSCAPE UNIT	SCORE	Origin
Grey Currawong				
1	Darling Plateau	Jarrah Uplands North	3	
2	Darling Plateau	Jarrah Uplands East	3	
3	Darling Plateau	Jarrah Uplands South	3	
4	Darling Plateau	Jarrah Uplands South East	3	
5	Darling Plateau	Karri Uplands	2	
6	Darling Plateau	Wandoo Uplands North	3	
7	Darling Plateau	Powder Bark Uplands	3	
8	Darling Plateau	Scarp	3	
9	Darling Plateau	Depression / Swamps North	3	
10	Darling Plateau	Depressions / Swamps South	3	
11	Darling Plateau	Depressions / Swamps East	3	
12	Darling Plateau	Depressions / Swamps South East	3	
13	Darling Plateau	Jarrah Valleys North	3	
14	Darling Plateau	Jarrah Valleys East	3	
15	Darling Plateau	Jarrah Valleys South	3	
16	Darling Plateau	Jarrah Valleys South East	3	
17	Darling Plateau	Karri Valleys	2	
18	Darling Plateau	Wandoo Valleys North	3	
19	Darling Plateau	Powder Bark Wandoo Valleys	3	
20	Darling Plateau	Granite Outcrops	3	
21	Various Systems	Esturies / Open Water	0	
22	Collie Plain	Uplands	3	
23	Collie Plain	Depressions / Swamps	3	
24	Dandaragan Plateau	Uplands	3	
25	Dandaragan Plateau	Valleys	3	
26	Swan Coastal Plain	Uplands	3	
27	Swan Coastal Plain	Valleys	3	
28	Southern Plains	Jarrah	3	
29	Southern Plains	Karri	2	
30	Southern Plains	Heath / Sedgeland	3	
31	South Coast Dunes	South Coast Dunes	3	
32	Blackwood Plateau	Jarrah Uplands	3	
33	Blackwood Plateau	Karri Uplands	2	
34	Blackwood Plateau	Depressions / Swamps	3	
35	Blackwood Plateau	Valleys	3	
36	Margaret River Plateau	Jarrah Uplands	3	
37	Margaret River Plateau	Karri Uplands	2	
38	Margaret River Plateau	Jarrah Valleys	3	
39	Margaret River Plateau	Karri Valleys	2	
40	Lewin Naturalist Coast	Jarrah	3	
41	Lewin Naturalist Coast	Marri/Karri	2	
42	Lewin Naturalist Coast	Coast Heath	3	
43	Scott Coastal Plain	Uplands	3	
44	Scott Coastal Plain	Valleys / Swamps	3	
45	Redmond	Uplands	3	
46	Redmond	Valleys	3	
47	Unicup	Jarrah Uplands	3	
48	Unicup	Wandoo Uplands	3	
49	Unicup	Jarrah Valleys	3	
50	Unicup	Wandoo Valleys	3	
51	Unicup	Scrubland	3	
53	Darling Plateau	Wandoo Uplands South	3	
54	Darling Plateau	Wandoo Valleys South	3	

## Appendix 2b

Fauna Habitat ID	FDIS LAND SYSTEM	FDIS LANDSCAPE UNIT	SCORE	Origin
Australian Raven				
1	Darling Plateau	Jarrah Uplands North	3	
2	Darling Plateau	Jarrah Uplands East	3	
3	Darling Plateau	Jarrah Uplands South	3	
4	Darling Plateau	Jarrah Uplands South East	3	
5	Darling Plateau	Karri Uplands	3	
6	Darling Plateau	Wandoo Uplands North	3	
7	Darling Plateau	Powder Bark Uplands	3	
8	Darling Plateau	Scarp	3	
9	Darling Plateau	Depression / Swamps North	3	
10	Darling Plateau	Depressions / Swamps South	3	
11	Darling Plateau	Depressions / Swamps East	3	
12	Darling Plateau	Depressions / Swamps South East	3	
13	Darling Plateau	Jarrah Valleys North	3	
14	Darling Plateau	Jarrah Valleys East	3	
15	Darling Plateau	Jarrah Valleys South	3	
16	Darling Plateau	Jarrah Valleys South East	3	
17	Darling Plateau	Karri Valleys	3	
18	Darling Plateau	Wandoo Valleys North	3	
19	Darling Plateau	Powder Bark Wandoo Valleys	3	
20	Darling Plateau	Granite Outcrops	3	
21	Various Systems	Esturies / Open Water	0	
22	Collie Plain	Uplands	3	
23	Collie Plain	Depressions / Swamps	3	
24	Dandaragan Plateau	Uplands	3	
25	Dandaragan Plateau	Valleys	3	
26	Swan Coastal Plain	Uplands	3	
27	Swan Coastal Plain	Valleys	3	
28	Southern Plains	Jarrah	3	
29	Southern Plains	Karri	3	
30	Southern Plains	Heath / Sedgeland	3	
31	South Coast Dunes	South Coast Dunes	3	
32	Blackwood Plateau	Jarrah Uplands	3	
33	Blackwood Plateau	Karri Uplands	3	
34	Blackwood Plateau	Depressions / Swamps	3	
35	Blackwood Plateau	Valleys	3	
36	Margaret River Plateau	Jarrah Uplands	3	
37	Margaret River Plateau	Karri Uplands	3	
38	Margaret River Plateau	Jarrah Valleys	3	
39	Margaret River Plateau	Karri Valleys	3	
40	Lewin Naturalist Coast	Jarrah	3	
41	Lewin Naturalist Coast	Marri/Karri	3	
42	Lewin Naturalist Coast	Coast Heath	3	
43	Scott Coastal Plain	Uplands	3	
44	Scott Coastal Plain	Valleys / Swamps	3	
45	Redmond	Uplands	3	
46	Redmond	Valleys	3	
47	Unicup	Jarrah Uplands	3	
48	Unicup	Wandoo Uplands	3	
49	Unicup	Jarrah Valleys	3	
50	Unicup	Wandoo Valleys	3	
51	Unicup	Scrubland	3	
53	Darling Plateau	Wandoo Uplands South	3	
54	Darling Plateau	Wandoo Valleys South	3	

## Appendix 2b

Fauna Habitat ID	FDIS LAND SYSTEM	FDIS LANDSCAPE UNIT	SCORE	Origin
Little Crow				
1	Darling Plateau	Jarrah Uplands North	0	
2	Darling Plateau	Jarrah Uplands East	0	
3	Darling Plateau	Jarrah Uplands South	0	
4	Darling Plateau	Jarrah Uplands South East	0	
5	Darling Plateau	Karri Uplands	0	
6	Darling Plateau	Wandoo Uplands North	1	
7	Darling Plateau	Powder Bark Uplands	1	
8	Darling Plateau	Scarp	0	
9	Darling Plateau	Depression / Swamps North	0	
10	Darling Plateau	Depressions / Swamps South	0	
11	Darling Plateau	Depressions / Swamps East	0	
12	Darling Plateau	Depressions / Swamps South East	0	
13	Darling Plateau	Jarrah Valleys North	0	
14	Darling Plateau	Jarrah Valleys East	0	
15	Darling Plateau	Jarrah Valleys South	0	
16	Darling Plateau	Jarrah Valleys South East	0	
17	Darling Plateau	Karri Valleys	0	
18	Darling Plateau	Wandoo Valleys North	1	
19	Darling Plateau	Powder Bark Wandoo Valleys	1	
20	Darling Plateau	Granite Outcrops	0	
21	Various Systems	Esturies / Open Water	0	
22	Collie Plain	Uplands	0	
23	Collie Plain	Depressions / Swamps	0	
24	Dandaragan Plateau	Uplands	2	
25	Dandaragan Plateau	Valleys	2	
26	Swan Coastal Plain	Uplands	2	
27	Swan Coastal Plain	Valleys	2	
28	Southern Plains	Jarrah	0	
29	Southern Plains	Karri	0	
30	Southern Plains	Heath / Sedgeland	0	
31	South Coast Dunes	South Coast Dunes	0	
32	Blackwood Plateau	Jarrah Uplands	0	
33	Blackwood Plateau	Karri Uplands	0	
34	Blackwood Plateau	Depressions / Swamps	0	
35	Blackwood Plateau	Valleys	0	
36	Margaret River Plateau	Jarrah Uplands	0	
37	Margaret River Plateau	Karri Uplands	0	
38	Margaret River Plateau	Jarrah Valleys	0	
39	Margaret River Plateau	Karri Valleys	0	
40	Lewin Naturalist Coast	Jarrah	0	
41	Lewin Naturalist Coast	Marri/Karri	0	
42	Lewin Naturalist Coast	Coast Heath	0	
43	Scott Coastal Plain	Uplands	0	
44	Scott Coastal Plain	Valleys / Swamps	0	
45	Redmond	Uplands	0	
46	Redmond	Valleys	0	
47	Unicup	Jarrah Uplands	0	
48	Unicup	Wandoo Uplands	0	
49	Unicup	Jarrah Valleys	0	
50	Unicup	Wandoo Valleys	0	
51	Unicup	Scrubland	0	
53	Darling Plateau	Wandoo Uplands South	0	
54	Darling Plateau	Wandoo Valleys South	0	

## Appendix 2b

Fauna Habitat ID	FDIS LAND SYSTEM	FDIS LANDSCAPE UNIT	SCORE	Origin
Noisy Scrub Bird				
1	Darling Plateau	Jarrah Uplands North	0	
2	Darling Plateau	Jarrah Uplands East	0	
3	Darling Plateau	Jarrah Uplands South	0	
4	Darling Plateau	Jarrah Uplands South East	0	
5	Darling Plateau	Karri Uplands	0	
6	Darling Plateau	Wandoo Uplands North	0	
7	Darling Plateau	Powder Bark Uplands	0	
8	Darling Plateau	Scarp	1	
9	Darling Plateau	Depression / Swamps North	0	
10	Darling Plateau	Depressions / Swamps South	0	
11	Darling Plateau	Depressions / Swamps East	0	
12	Darling Plateau	Depressions / Swamps South East	0	
13	Darling Plateau	Jarrah Valleys North	0	
14	Darling Plateau	Jarrah Valleys East	0	
15	Darling Plateau	Jarrah Valleys South	0	
16	Darling Plateau	Jarrah Valleys South East	0	
17	Darling Plateau	Karri Valleys	0	
18	Darling Plateau	Wandoo Valleys North	0	
19	Darling Plateau	Powder Bark Wandoo Valleys	0	
20	Darling Plateau	Granite Outcrops	0	
21	Various Systems	Esturies / Open Water	0	
22	Collie Plain	Uplands	0	
23	Collie Plain	Depressions / Swamps	0	
24	Dandaragan Plateau	Uplands	0	
25	Dandaragan Plateau	Valleys	0	
26	Swan Coastal Plain	Uplands	0	
27	Swan Coastal Plain	Valleys	0	
28	Southern Plains	Jarrah	0	
29	Southern Plains	Karri	0	
30	Southern Plains	Heath / Sedgeland	0	
31	South Coast Dunes	South Coast Dunes	0	
32	Blackwood Plateau	Jarrah Uplands	0	
33	Blackwood Plateau	Karri Uplands	0	
34	Blackwood Plateau	Depressions / Swamps	0	
35	Blackwood Plateau	Valleys	0	
36	Margaret River Plateau	Jarrah Uplands	0	
37	Margaret River Plateau	Karri Uplands	0	
38	Margaret River Plateau	Jarrah Valleys	0	
39	Margaret River Plateau	Karri Valleys	0	
40	Lewin Naturalist Coast	Jarrah	0	
41	Lewin Naturalist Coast	Marri/Karri	0	
42	Lewin Naturalist Coast	Coast Heath	1	
43	Scott Coastal Plain	Uplands	0	
44	Scott Coastal Plain	Valleys / Swamps	0	
45	Redmond	Uplands	0	
46	Redmond	Valleys	0	
47	Unicup	Jarrah Uplands	0	
48	Unicup	Wandoo Uplands	0	
49	Unicup	Jarrah Valleys	0	
50	Unicup	Wandoo Valleys	0	
51	Unicup	Scrubland	0	
53	Darling Plateau	Wandoo Uplands South	0	
54	Darling Plateau	Wandoo Valleys South	0	

## Appendix 2b

Fauna Habitat ID	FDIS LAND SYSTEM	FDIS LANDSCAPE UNIT	SCORE	Origin
Western Bristle Bird				
1	Darling Plateau	Jarrah Uplands North	0	
2	Darling Plateau	Jarrah Uplands East	0	
3	Darling Plateau	Jarrah Uplands South	0	
4	Darling Plateau	Jarrah Uplands South East	0	
5	Darling Plateau	Karri Uplands	0	
6	Darling Plateau	Wandoo Uplands North	0	
7	Darling Plateau	Powder Bark Uplands	0	
8	Darling Plateau	Scarp	0	
9	Darling Plateau	Depression / Swamps North	0	
10	Darling Plateau	Depressions / Swamps South	0	
11	Darling Plateau	Depressions / Swamps East	0	
12	Darling Plateau	Depressions / Swamps South East	0	
13	Darling Plateau	Jarrah Valleys North	0	
14	Darling Plateau	Jarrah Valleys East	0	
15	Darling Plateau	Jarrah Valleys South	0	
16	Darling Plateau	Jarrah Valleys South East	0	
17	Darling Plateau	Karri Valleys	0	
18	Darling Plateau	Wandoo Valleys North	0	
19	Darling Plateau	Powder Bark Wandoo Valleys	0	
20	Darling Plateau	Granite Outcrops	0	
21	Various Systems	Esturies / Open Water	0	
22	Collie Plain	Uplands	0	
23	Collie Plain	Depressions / Swamps	0	
24	Dandaragan Plateau	Uplands	0	
25	Dandaragan Plateau	Valleys	0	
26	Swan Coastal Plain	Uplands	0	
27	Swan Coastal Plain	Valleys	0	
28	Southern Plains	Jarrah	0	
29	Southern Plains	Karri	0	
30	Southern Plains	Heath / Sedgeland	0	
31	South Coast Dunes	South Coast Dunes	1	
32	Blackwood Plateau	Jarrah Uplands	0	
33	Blackwood Plateau	Karri Uplands	0	
34	Blackwood Plateau	Depressions / Swamps	0	
35	Blackwood Plateau	Valleys	0	
36	Margaret River Plateau	Jarrah Uplands	0	
37	Margaret River Plateau	Karri Uplands	0	
38	Margaret River Plateau	Jarrah Valleys	0	
39	Margaret River Plateau	Karri Valleys	0	
40	Lewin Naturalist Coast	Jarrah	0	
41	Lewin Naturalist Coast	Marri/Karri	0	
42	Lewin Naturalist Coast	Coast Heath	1	
43	Scott Coastal Plain	Uplands	0	
44	Scott Coastal Plain	Valleys / Swamps	0	
45	Redmond	Uplands	0	
46	Redmond	Valleys	0	
47	Unicup	Jarrah Uplands	0	
48	Unicup	Wandoo Uplands	0	
49	Unicup	Jarrah Valleys	0	
50	Unicup	Wandoo Valleys	0	
51	Unicup	Scrubland	0	
53	Darling Plateau	Wandoo Uplands South	0	
54	Darling Plateau	Wandoo Valleys South	0	



## Appendix 2b

Fauna Habitat ID	FDIS LAND SYSTEM	FDIS LANDSCAPE UNIT	SCORE	Origin
Bush Stone Curlew				
1	Darling Plateau	Jarrah Uplands North	0	
2	Darling Plateau	Jarrah Uplands East	0	
3	Darling Plateau	Jarrah Uplands South	0	
4	Darling Plateau	Jarrah Uplands South East	0	
5	Darling Plateau	Karri Uplands	0	
6	Darling Plateau	Wandoo Uplands North	0	
7	Darling Plateau	Powder Bark Uplands	0	
8	Darling Plateau	Scarp	0	
9	Darling Plateau	Depression / Swamps North	1	
10	Darling Plateau	Depressions / Swamps South	0	
11	Darling Plateau	Depressions / Swamps East	0	
12	Darling Plateau	Depressions / Swamps South East	0	
13	Darling Plateau	Jarrah Valleys North	0	
14	Darling Plateau	Jarrah Valleys East	0	
15	Darling Plateau	Jarrah Valleys South	0	
16	Darling Plateau	Jarrah Valleys South East	0	
17	Darling Plateau	Karri Valleys	0	
18	Darling Plateau	Wandoo Valleys North	1	
19	Darling Plateau	Powder Bark Wandoo Valleys	1	
20	Darling Plateau	Granite Outcrops	0	
21	Various Systems	Esturies / Open Water	0	
22	Collie Plain	Uplands	0	
23	Collie Plain	Depressions / Swamps	0	
24	Dandaragan Plateau	Uplands	0	
25	Dandaragan Plateau	Valleys	0	
26	Swan Coastal Plain	Uplands	0	
27	Swan Coastal Plain	Valleys	0	
28	Southern Plains	Jarrah	0	
29	Southern Plains	Karri	0	
30	Southern Plains	Heath / Sedgeland	0	
31	South Coast Dunes	South Coast Dunes	0	
32	Blackwood Plateau	Jarrah Uplands	0	
33	Blackwood Plateau	Karri Uplands	0	
34	Blackwood Plateau	Depressions / Swamps	0	
35	Blackwood Plateau	Valleys	0	
36	Margaret River Plateau	Jarrah Uplands	0	
37	Margaret River Plateau	Karri Uplands	0	
38	Margaret River Plateau	Jarrah Valleys	0	
39	Margaret River Plateau	Karri Valleys	0	
40	Lewin Naturalist Coast	Jarrah	0	
41	Lewin Naturalist Coast	Marri/Karri	0	
42	Lewin Naturalist Coast	Coast Heath	0	
43	Scott Coastal Plain	Uplands	0	
44	Scott Coastal Plain	Valleys / Swamps	0	
45	Redmond	Uplands	0	
46	Redmond	Valleys	0	
47	Unicup	Jarrah Uplands	0	
48	Unicup	Wandoo Uplands	0	
49	Unicup	Jarrah Valleys	0	
50	Unicup	Wandoo Valleys	0	
51	Unicup	Scrubland	0	
53	Darling Plateau	Wandoo Uplands South	0	
54	Darling Plateau	Wandoo Valleys South	0	

## Appendix 2b

Fauna Habitat ID	FDIS LAND SYSTEM	FDIS LANDSCAPE UNIT	SCORE	Origin
Western Whipbird (Heath)				
1	Darling Plateau	Jarrah Uplands North	0	
2	Darling Plateau	Jarrah Uplands East	0	
3	Darling Plateau	Jarrah Uplands South	0	
4	Darling Plateau	Jarrah Uplands South East	0	
5	Darling Plateau	Karri Uplands	0	
6	Darling Plateau	Wandoo Uplands North	0	
7	Darling Plateau	Powder Bark Uplands	0	
8	Darling Plateau	Scarp	0	
9	Darling Plateau	Depression / Swamps North	0	
10	Darling Plateau	Depressions / Swamps South	0	
11	Darling Plateau	Depressions / Swamps East	0	
12	Darling Plateau	Depressions / Swamps South East	0	
13	Darling Plateau	Jarrah Valleys North	0	
14	Darling Plateau	Jarrah Valleys East	0	
15	Darling Plateau	Jarrah Valleys South	0	
16	Darling Plateau	Jarrah Valleys South East	0	
17	Darling Plateau	Karri Valleys	0	
18	Darling Plateau	Wandoo Valleys North	0	
19	Darling Plateau	Powder Bark Wandoo Valleys	0	
20	Darling Plateau	Granite Outcrops	0	
21	Various Systems	Esturies / Open Water	0	
22	Collie Plain	Uplands	0	
23	Collie Plain	Depressions / Swamps	0	
24	Dandaragan Plateau	Uplands	0	
25	Dandaragan Plateau	Valleys	0	
26	Swan Coastal Plain	Uplands	0	
27	Swan Coastal Plain	Valleys	0	
28	Southern Plains	Jarrah	0	
29	Southern Plains	Karri	0	
30	Southern Plains	Heath / Sedgeland	0	
31	South Coast Dunes	South Coast Dunes	1	
32	Blackwood Plateau	Jarrah Uplands	0	
33	Blackwood Plateau	Karri Uplands	0	
34	Blackwood Plateau	Depressions / Swamps	0	
35	Blackwood Plateau	Valleys	0	
36	Margaret River Plateau	Jarrah Uplands	0	
37	Margaret River Plateau	Karri Uplands	0	
38	Margaret River Plateau	Jarrah Valleys	0	
39	Margaret River Plateau	Karri Valleys	0	
40	Lewin Naturalist Coast	Jarrah	0	
41	Lewin Naturalist Coast	Marri/Karri	0	
42	Lewin Naturalist Coast	Coast Heath	0	
43	Scott Coastal Plain	Uplands	0	
44	Scott Coastal Plain	Valleys / Swamps	0	
45	Redmond	Uplands	0	
46	Redmond	Valleys	0	
47	Unicup	Jarrah Uplands	0	
48	Unicup	Wandoo Uplands	0	
49	Unicup	Jarrah Valleys	0	
50	Unicup	Wandoo Valleys	0	
51	Unicup	Scrubland	0	
53	Darling Plateau	Wandoo Uplands South	0	
54	Darling Plateau	Wandoo Valleys South	0	

## Appendix 2b

Fauna Habitat ID	FDIS LAND SYSTEM	FDIS LANDSCAPE UNIT	SCORE	Origin
Australian Painted Snipe				
1	Darling Plateau	Jarrah Uplands North	0	
2	Darling Plateau	Jarrah Uplands East	0	
3	Darling Plateau	Jarrah Uplands South	0	
4	Darling Plateau	Jarrah Uplands South East	0	
5	Darling Plateau	Karri Uplands	0	
6	Darling Plateau	Wandoo Uplands North	0	
7	Darling Plateau	Powder Bark Uplands	0	
8	Darling Plateau	Scarp	0	
9	Darling Plateau	Depression / Swamps North	1	
10	Darling Plateau	Depressions / Swamps South	0	
11	Darling Plateau	Depressions / Swamps East	1	
12	Darling Plateau	Depressions / Swamps South East	0	
13	Darling Plateau	Jarrah Valleys North	0	
14	Darling Plateau	Jarrah Valleys East	0	
15	Darling Plateau	Jarrah Valleys South	0	
16	Darling Plateau	Jarrah Valleys South East	0	
17	Darling Plateau	Karri Valleys	0	
18	Darling Plateau	Wandoo Valleys North	0	
19	Darling Plateau	Powder Bark Wandoo Valleys	0	
20	Darling Plateau	Granite Outcrops	0	
21	Various Systems	Esturies / Open Water	0	
22	Collie Plain	Uplands	0	
23	Collie Plain	Depressions / Swamps	0	
24	Dandaragan Plateau	Uplands	0	
25	Dandaragan Plateau	Valleys	0	
26	Swan Coastal Plain	Uplands	0	
27	Swan Coastal Plain	Valleys	0	
28	Southern Plains	Jarrah	0	
29	Southern Plains	Karri	0	
30	Southern Plains	Heath / Sedgeland	0	
31	South Coast Dunes	South Coast Dunes	0	
32	Blackwood Plateau	Jarrah Uplands	0	
33	Blackwood Plateau	Karri Uplands	0	
34	Blackwood Plateau	Depressions / Swamps	0	
35	Blackwood Plateau	Valleys	0	
36	Margaret River Plateau	Jarrah Uplands	0	
37	Margaret River Plateau	Karri Uplands	0	
38	Margaret River Plateau	Jarrah Valleys	0	
39	Margaret River Plateau	Karri Valleys	0	
40	Lewin Naturalist Coast	Jarrah	0	
41	Lewin Naturalist Coast	Marri/Karri	0	
42	Lewin Naturalist Coast	Coast Heath	0	
43	Scott Coastal Plain	Uplands	0	
44	Scott Coastal Plain	Valleys / Swamps	0	
45	Redmond	Uplands	0	
46	Redmond	Valleys	0	
47	Unicup	Jarrah Uplands	0	
48	Unicup	Wandoo Uplands	0	
49	Unicup	Jarrah Valleys	0	
50	Unicup	Wandoo Valleys	0	
51	Unicup	Scrubland	0	
53	Darling Plateau	Wandoo Uplands South	0	
54	Darling Plateau	Wandoo Valleys South	0	

## Appendix 2b

Fauna Habitat ID	FDIS LAND SYSTEM	FDIS LANDSCAPE UNIT	SCORE	Origin
Australian Bustard				
1	Darling Plateau	Jarrah Uplands North	0	
2	Darling Plateau	Jarrah Uplands East	0	
3	Darling Plateau	Jarrah Uplands South	0	
4	Darling Plateau	Jarrah Uplands South East	0	
5	Darling Plateau	Karri Uplands	0	
6	Darling Plateau	Wandoo Uplands North	0	
7	Darling Plateau	Powder Bark Uplands	0	
8	Darling Plateau	Scarp	0	
9	Darling Plateau	Depression / Swamps North	1	
10	Darling Plateau	Depressions / Swamps South	0	
11	Darling Plateau	Depressions / Swamps East	0	
12	Darling Plateau	Depressions / Swamps South East	0	
13	Darling Plateau	Jarrah Valleys North	0	
14	Darling Plateau	Jarrah Valleys East	0	
15	Darling Plateau	Jarrah Valleys South	0	
16	Darling Plateau	Jarrah Valleys South East	0	
17	Darling Plateau	Karri Valleys	0	
18	Darling Plateau	Wandoo Valleys North	1	
19	Darling Plateau	Powder Bark Wandoo Valleys	1	
20	Darling Plateau	Granite Outcrops	0	
21	Various Systems	Esturies / Open Water	0	
22	Collie Plain	Uplands	0	
23	Collie Plain	Depressions / Swamps	0	
24	Dandaragan Plateau	Uplands	0	
25	Dandaragan Plateau	Valleys	0	
26	Swan Coastal Plain	Uplands	0	
27	Swan Coastal Plain	Valleys	0	
28	Southern Plains	Jarrah	0	
29	Southern Plains	Karri	0	
30	Southern Plains	Heath / Sedgeland	0	
31	South Coast Dunes	South Coast Dunes	0	
32	Blackwood Plateau	Jarrah Uplands	0	
33	Blackwood Plateau	Karri Uplands	0	
34	Blackwood Plateau	Depressions / Swamps	0	
35	Blackwood Plateau	Valleys	0	
36	Margaret River Plateau	Jarrah Uplands	0	
37	Margaret River Plateau	Karri Uplands	0	
38	Margaret River Plateau	Jarrah Valleys	0	
39	Margaret River Plateau	Karri Valleys	0	
40	Lewin Naturalist Coast	Jarrah	0	
41	Lewin Naturalist Coast	Marri/Karri	0	
42	Lewin Naturalist Coast	Coast Heath	0	
43	Scott Coastal Plain	Uplands	0	
44	Scott Coastal Plain	Valleys / Swamps	0	
45	Redmond	Uplands	0	
46	Redmond	Valleys	0	
47	Unicup	Jarrah Uplands	0	
48	Unicup	Wandoo Uplands	0	
49	Unicup	Jarrah Valleys	0	
50	Unicup	Wandoo Valleys	0	
51	Unicup	Scrubland	0	
53	Darling Plateau	Wandoo Uplands South	0	
54	Darling Plateau	Wandoo Valleys South	0	

## Appendix 2b

Fauna Habitat ID	FDIS LAND SYSTEM	FDIS LANDSCAPE UNIT	SCORE	Origin
Fence Skink				
1	Darling Plateau	Jarrah Uplands North	3	
2	Darling Plateau	Jarrah Uplands East	3	
3	Darling Plateau	Jarrah Uplands South	1	
4	Darling Plateau	Jarrah Uplands South East	0	
5	Darling Plateau	Karri Uplands	0	
6	Darling Plateau	Wandoo Uplands North	3	
7	Darling Plateau	Powder Bark Uplands	3	
8	Darling Plateau	Scarp	3	
9	Darling Plateau	Depression / Swamps North	3	
10	Darling Plateau	Depressions / Swamps South	0	
11	Darling Plateau	Depressions / Swamps East	1	
12	Darling Plateau	Depressions / Swamps South East	0	
13	Darling Plateau	Jarrah Valleys North	1	
14	Darling Plateau	Jarrah Valleys East	3	
15	Darling Plateau	Jarrah Valleys South	0	
16	Darling Plateau	Jarrah Valleys South East	0	
17	Darling Plateau	Karri Valleys	0	
18	Darling Plateau	Wandoo Valleys North	3	
19	Darling Plateau	Powder Bark Wandoo Valleys	3	
20	Darling Plateau	Granite Outcrops	0	
21	Various Systems	Esturies / Open Water	0	
22	Collie Plain	Uplands	3	
23	Collie Plain	Depressions / Swamps	1	
24	Dandaragan Plateau	Uplands	3	
25	Dandaragan Plateau	Valleys	3	
26	Swan Coastal Plain	Uplands	2	
27	Swan Coastal Plain	Valleys	2	
28	Southern Plains	Jarrah	0	
29	Southern Plains	Karri	0	
30	Southern Plains	Heath / Sedgeland	0	
31	South Coast Dunes	South Coast Dunes	0	
32	Blackwood Plateau	Jarrah Uplands	3	
33	Blackwood Plateau	Karri Uplands	0	
34	Blackwood Plateau	Depressions / Swamps	1	
35	Blackwood Plateau	Valleys	0	
36	Margaret River Plateau	Jarrah Uplands	3	
37	Margaret River Plateau	Karri Uplands	0	
38	Margaret River Plateau	Jarrah Valleys	1	
39	Margaret River Plateau	Karri Valleys	0	
40	Lewin Naturalist Coast	Jarrah	3	
41	Lewin Naturalist Coast	Marri/Karri	0	
42	Lewin Naturalist Coast	Coast Heath	0	
43	Scott Coastal Plain	Uplands	1	
44	Scott Coastal Plain	Valleys / Swamps	0	
45	Redmond	Uplands	0	
46	Redmond	Valleys	0	
47	Unicup	Jarrah Uplands	0	
48	Unicup	Wandoo Uplands	0	
49	Unicup	Jarrah Valleys	0	
50	Unicup	Wandoo Valleys	0	
51	Unicup	Scrubland	0	
53	Darling Plateau	Wandoo Uplands South	3	
54	Darling Plateau	Wandoo Valleys South	3	

## Appendix 2b

Fauna Habitat ID	FDIS LAND SYSTEM	FDIS LANDSCAPE UNIT	SCORE	Origin
Chain-striped Ctenotus				
1	Darling Plateau	Jarrah Uplands North	0	
2	Darling Plateau	Jarrah Uplands East	0	
3	Darling Plateau	Jarrah Uplands South	0	
4	Darling Plateau	Jarrah Uplands South East	0	
5	Darling Plateau	Karri Uplands	0	
6	Darling Plateau	Wandoo Uplands North	0	
7	Darling Plateau	Powder Bark Uplands	0	
8	Darling Plateau	Scarp	0	
9	Darling Plateau	Depression / Swamps North	0	
10	Darling Plateau	Depressions / Swamps South	0	
11	Darling Plateau	Depressions / Swamps East	0	
12	Darling Plateau	Depressions / Swamps South East	1	
13	Darling Plateau	Jarrah Valleys North	0	
14	Darling Plateau	Jarrah Valleys East	0	
15	Darling Plateau	Jarrah Valleys South	0	
16	Darling Plateau	Jarrah Valleys South East	0	
17	Darling Plateau	Karri Valleys	0	
18	Darling Plateau	Wandoo Valleys North	0	
19	Darling Plateau	Powder Bark Wandoo Valleys	0	
20	Darling Plateau	Granite Outcrops	0	
21	Various Systems	Esturies / Open Water	0	
22	Collie Plain	Uplands	0	
23	Collie Plain	Depressions / Swamps	0	
24	Dandaragan Plateau	Uplands	0	
25	Dandaragan Plateau	Valleys	0	
26	Swan Coastal Plain	Uplands	0	
27	Swan Coastal Plain	Valleys	0	
28	Southern Plains	Jarrah	2	
29	Southern Plains	Karri	0	
30	Southern Plains	Heath / Sedgeland	1	
31	South Coast Dunes	South Coast Dunes	0	
32	Blackwood Plateau	Jarrah Uplands	0	
33	Blackwood Plateau	Karri Uplands	0	
34	Blackwood Plateau	Depressions / Swamps	0	
35	Blackwood Plateau	Valleys	0	
36	Margaret River Plateau	Jarrah Uplands	0	
37	Margaret River Plateau	Karri Uplands	0	
38	Margaret River Plateau	Jarrah Valleys	0	
39	Margaret River Plateau	Karri Valleys	0	
40	Lewin Naturalist Coast	Jarrah	0	
41	Lewin Naturalist Coast	Marri/Karri	0	
42	Lewin Naturalist Coast	Coast Heath	0	
43	Scott Coastal Plain	Uplands	0	
44	Scott Coastal Plain	Valleys / Swamps	0	
45	Redmond	Uplands	2	
46	Redmond	Valleys	1	
47	Unicup	Jarrah Uplands	0	
48	Unicup	Wandoo Uplands	0	
49	Unicup	Jarrah Valleys	0	
50	Unicup	Wandoo Valleys	0	
51	Unicup	Scrubland	0	
53	Darling Plateau	Wandoo Uplands South	0	
54	Darling Plateau	Wandoo Valleys South	0	

## Appendix 2b

Fauna Habitat ID	FDIS LAND SYSTEM	FDIS LANDSCAPE UNIT	SCORE	Origin
Darling Range Ctenotus				
1	Darling Plateau	Jarrah Uplands North	3	
2	Darling Plateau	Jarrah Uplands East	0	
3	Darling Plateau	Jarrah Uplands South	0	
4	Darling Plateau	Jarrah Uplands South East	0	
5	Darling Plateau	Karri Uplands	0	
6	Darling Plateau	Wandoo Uplands North	0	
7	Darling Plateau	Powder Bark Uplands	0	
8	Darling Plateau	Scarp	0	
9	Darling Plateau	Depression / Swamps North	0	
10	Darling Plateau	Depressions / Swamps South	0	
11	Darling Plateau	Depressions / Swamps East	1	
12	Darling Plateau	Depressions / Swamps South East	0	
13	Darling Plateau	Jarrah Valleys North	2	
14	Darling Plateau	Jarrah Valleys East	0	
15	Darling Plateau	Jarrah Valleys South	0	
16	Darling Plateau	Jarrah Valleys South East	0	
17	Darling Plateau	Karri Valleys	0	
18	Darling Plateau	Wandoo Valleys North	0	
19	Darling Plateau	Powder Bark Wandoo Valleys	0	
20	Darling Plateau	Granite Outcrops	0	
21	Various Systems	Esturies / Open Water	0	
22	Collie Plain	Uplands	2	
23	Collie Plain	Depressions / Swamps	0	
24	Dandaragan Plateau	Uplands	0	
25	Dandaragan Plateau	Valleys	0	
26	Swan Coastal Plain	Uplands	0	
27	Swan Coastal Plain	Valleys	0	
28	Southern Plains	Jarrah	0	
29	Southern Plains	Karri	0	
30	Southern Plains	Heath / Sedgeland	0	
31	South Coast Dunes	South Coast Dunes	0	
32	Blackwood Plateau	Jarrah Uplands	0	
33	Blackwood Plateau	Karri Uplands	0	
34	Blackwood Plateau	Depressions / Swamps	0	
35	Blackwood Plateau	Valleys	0	
36	Margaret River Plateau	Jarrah Uplands	0	
37	Margaret River Plateau	Karri Uplands	0	
38	Margaret River Plateau	Jarrah Valleys	0	
39	Margaret River Plateau	Karri Valleys	0	
40	Lewin Naturalist Coast	Jarrah	0	
41	Lewin Naturalist Coast	Marri/Karri	0	
42	Lewin Naturalist Coast	Coast Heath	0	
43	Scott Coastal Plain	Uplands	0	
44	Scott Coastal Plain	Valleys / Swamps	0	
45	Redmond	Uplands	0	
46	Redmond	Valleys	0	
47	Unicup	Jarrah Uplands	0	
48	Unicup	Wandoo Uplands	0	
49	Unicup	Jarrah Valleys	0	
50	Unicup	Wandoo Valleys	0	
51	Unicup	Scrubland	0	
53	Darling Plateau	Wandoo Uplands South	0	
54	Darling Plateau	Wandoo Valleys South	0	

## Appendix 2b

Fauna Habitat ID	FDIS LAND SYSTEM	FDIS LANDSCAPE UNIT	SCORE	Origin
Jewelled South-west Ctenotus				
1	Darling Plateau	Jarrah Uplands North	0	
2	Darling Plateau	Jarrah Uplands East	0	
3	Darling Plateau	Jarrah Uplands South	0	
4	Darling Plateau	Jarrah Uplands South East	0	
5	Darling Plateau	Karri Uplands	0	
6	Darling Plateau	Wandoo Uplands North	0	
7	Darling Plateau	Powder Bark Uplands	0	
8	Darling Plateau	Scarp	0	
9	Darling Plateau	Depression / Swamps North	0	
10	Darling Plateau	Depressions / Swamps South	0	
11	Darling Plateau	Depressions / Swamps East	0	
12	Darling Plateau	Depressions / Swamps South East	0	
13	Darling Plateau	Jarrah Valleys North	0	
14	Darling Plateau	Jarrah Valleys East	0	
15	Darling Plateau	Jarrah Valleys South	0	
16	Darling Plateau	Jarrah Valleys South East	0	
17	Darling Plateau	Karri Valleys	0	
18	Darling Plateau	Wandoo Valleys North	0	
19	Darling Plateau	Powder Bark Wandoo Valleys	0	
20	Darling Plateau	Granite Outcrops	0	
21	Various Systems	Esturies / Open Water	0	
22	Collie Plain	Uplands	0	
23	Collie Plain	Depressions / Swamps	0	
24	Dandaragan Plateau	Uplands	0	
25	Dandaragan Plateau	Valleys	0	
26	Swan Coastal Plain	Uplands	0	
27	Swan Coastal Plain	Valleys	2	
28	Southern Plains	Jarrah	0	
29	Southern Plains	Karri	0	
30	Southern Plains	Heath / Sedgeland	2	
31	South Coast Dunes	South Coast Dunes	2	
32	Blackwood Plateau	Jarrah Uplands	0	
33	Blackwood Plateau	Karri Uplands	0	
34	Blackwood Plateau	Depressions / Swamps	0	
35	Blackwood Plateau	Valleys	0	
36	Margaret River Plateau	Jarrah Uplands	0	
37	Margaret River Plateau	Karri Uplands	0	
38	Margaret River Plateau	Jarrah Valleys	0	
39	Margaret River Plateau	Karri Valleys	0	
40	Lewin Naturalist Coast	Jarrah	0	
41	Lewin Naturalist Coast	Marri/Karri	0	
42	Lewin Naturalist Coast	Coast Heath	0	
43	Scott Coastal Plain	Uplands	0	
44	Scott Coastal Plain	Valleys / Swamps	0	
45	Redmond	Uplands	0	
46	Redmond	Valleys	2	
47	Unicup	Jarrah Uplands	0	
48	Unicup	Wandoo Uplands	0	
49	Unicup	Jarrah Valleys	0	
50	Unicup	Wandoo Valleys	0	
51	Unicup	Scrubland	0	
53	Darling Plateau	Wandoo Uplands South	0	
54	Darling Plateau	Wandoo Valleys South	0	



## Appendix 2b

Fauna Habitat ID	FDIS LAND SYSTEM	FDIS LANDSCAPE UNIT	SCORE	Origin
Odd-striped Ctenotus				
1	Darling Plateau	Jarrah Uplands North	0	
2	Darling Plateau	Jarrah Uplands East	1	
3	Darling Plateau	Jarrah Uplands South	0	
4	Darling Plateau	Jarrah Uplands South East	1	
5	Darling Plateau	Karri Uplands	0	
6	Darling Plateau	Wandoo Uplands North	1	
7	Darling Plateau	Powder Bark Uplands	1	
8	Darling Plateau	Scarp	0	
9	Darling Plateau	Depression / Swamps North	2	
10	Darling Plateau	Depressions / Swamps South	0	
11	Darling Plateau	Depressions / Swamps East	0	
12	Darling Plateau	Depressions / Swamps South East	0	
13	Darling Plateau	Jarrah Valleys North	0	
14	Darling Plateau	Jarrah Valleys East	0	
15	Darling Plateau	Jarrah Valleys South	0	
16	Darling Plateau	Jarrah Valleys South East	0	
17	Darling Plateau	Karri Valleys	0	
18	Darling Plateau	Wandoo Valleys North	1	
19	Darling Plateau	Powder Bark Wandoo Valleys	1	
20	Darling Plateau	Granite Outcrops	0	
21	Various Systems	Esturies / Open Water	0	
22	Collie Plain	Uplands	0	
23	Collie Plain	Depressions / Swamps	0	
24	Dandaragan Plateau	Uplands	1	
25	Dandaragan Plateau	Valleys	1	
26	Swan Coastal Plain	Uplands	2	
27	Swan Coastal Plain	Valleys	2	
28	Southern Plains	Jarrah	2	
29	Southern Plains	Karri	0	
30	Southern Plains	Heath / Sedgeland	0	
31	South Coast Dunes	South Coast Dunes	0	
32	Blackwood Plateau	Jarrah Uplands	0	
33	Blackwood Plateau	Karri Uplands	0	
34	Blackwood Plateau	Depressions / Swamps	2	
35	Blackwood Plateau	Valleys	0	
36	Margaret River Plateau	Jarrah Uplands	0	
37	Margaret River Plateau	Karri Uplands	0	
38	Margaret River Plateau	Jarrah Valleys	0	
39	Margaret River Plateau	Karri Valleys	0	
40	Lewin Naturalist Coast	Jarrah	0	
41	Lewin Naturalist Coast	Marri/Karri	0	
42	Lewin Naturalist Coast	Coast Heath	2	
43	Scott Coastal Plain	Uplands	2	
44	Scott Coastal Plain	Valleys / Swamps	0	
45	Redmond	Uplands	2	
46	Redmond	Valleys	0	
47	Unicup	Jarrah Uplands	1	
48	Unicup	Wandoo Uplands	1	
49	Unicup	Jarrah Valleys	1	
50	Unicup	Wandoo Valleys	1	
51	Unicup	Scrubland	1	
53	Darling Plateau	Wandoo Uplands South	0	
54	Darling Plateau	Wandoo Valleys South	0	

## Appendix 2b

Fauna Habitat ID	FDIS LAND SYSTEM	FDIS LANDSCAPE UNIT	SCORE	Origin
Red-legged Skink				
1	Darling Plateau	Jarrah Uplands North	3	
2	Darling Plateau	Jarrah Uplands East	3	
3	Darling Plateau	Jarrah Uplands South	3	
4	Darling Plateau	Jarrah Uplands South East	3	
5	Darling Plateau	Karri Uplands	1	
6	Darling Plateau	Wandoo Uplands North	3	
7	Darling Plateau	Powder Bark Uplands	3	
8	Darling Plateau	Scarp	3	
9	Darling Plateau	Depression / Swamps North	3	
10	Darling Plateau	Depressions / Swamps South	2	
11	Darling Plateau	Depressions / Swamps East	2	
12	Darling Plateau	Depressions / Swamps South East	2	
13	Darling Plateau	Jarrah Valleys North	2	
14	Darling Plateau	Jarrah Valleys East	3	M
15	Darling Plateau	Jarrah Valleys South	2	
16	Darling Plateau	Jarrah Valleys South East	3	
17	Darling Plateau	Karri Valleys	1	
18	Darling Plateau	Wandoo Valleys North	3	
19	Darling Plateau	Powder Bark Wandoo Valleys	3	
20	Darling Plateau	Granite Outcrops	3	
21	Various Systems	Esturies / Open Water	0	M
22	Collie Plain	Uplands	3	
23	Collie Plain	Depressions / Swamps	3	
24	Dandaragan Plateau	Uplands	3	
25	Dandaragan Plateau	Valleys	3	
26	Swan Coastal Plain	Uplands	3	
27	Swan Coastal Plain	Valleys	3	
28	Southern Plains	Jarrah	3	
29	Southern Plains	Karri	1	
30	Southern Plains	Heath / Sedgeland	2	
31	South Coast Dunes	South Coast Dunes	3	
32	Blackwood Plateau	Jarrah Uplands	3	
33	Blackwood Plateau	Karri Uplands	1	
34	Blackwood Plateau	Depressions / Swamps	2	
35	Blackwood Plateau	Valleys	2	
36	Margaret River Plateau	Jarrah Uplands	3	
37	Margaret River Plateau	Karri Uplands	1	
38	Margaret River Plateau	Jarrah Valleys	2	
39	Margaret River Plateau	Karri Valleys	0	
40	Lewin Naturalist Coast	Jarrah	3	
41	Lewin Naturalist Coast	Marri/Karri	1	
42	Lewin Naturalist Coast	Coast Heath	3	
43	Scott Coastal Plain	Uplands	3	
44	Scott Coastal Plain	Valleys / Swamps	2	
45	Redmond	Uplands	3	
46	Redmond	Valleys	2	
47	Unicup	Jarrah Uplands	3	
48	Unicup	Wandoo Uplands	3	
49	Unicup	Jarrah Valleys	3	
50	Unicup	Wandoo Valleys	3	
51	Unicup	Scrubland	3	
53	Darling Plateau	Wandoo Uplands South	3	
54	Darling Plateau	Wandoo Valleys South	3	

## Appendix 2b

Fauna Habitat ID	FDIS LAND SYSTEM	FDIS LANDSCAPE UNIT	SCORE	Origin
King's Skink				
1	Darling Plateau	Jarrah Uplands North	3	
2	Darling Plateau	Jarrah Uplands East	3	
3	Darling Plateau	Jarrah Uplands South	3	
4	Darling Plateau	Jarrah Uplands South East	3	
5	Darling Plateau	Karri Uplands	1	
6	Darling Plateau	Wandoo Uplands North	2	
7	Darling Plateau	Powder Bark Uplands	2	
8	Darling Plateau	Scarp	2	
9	Darling Plateau	Depression / Swamps North	3	
10	Darling Plateau	Depressions / Swamps South	2	
11	Darling Plateau	Depressions / Swamps East	3	
12	Darling Plateau	Depressions / Swamps South East	3	M
13	Darling Plateau	Jarrah Valleys North	2	
14	Darling Plateau	Jarrah Valleys East	1	M
15	Darling Plateau	Jarrah Valleys South	3	
16	Darling Plateau	Jarrah Valleys South East	1	
17	Darling Plateau	Karri Valleys	1	
18	Darling Plateau	Wandoo Valleys North	2	
19	Darling Plateau	Powder Bark Wandoo Valleys	1	
20	Darling Plateau	Granite Outcrops	3	
21	Various Systems	Esturies / Open Water	0	
22	Collie Plain	Uplands	2	
23	Collie Plain	Depressions / Swamps	2	
24	Dandaragan Plateau	Uplands	2	
25	Dandaragan Plateau	Valleys	2	
26	Swan Coastal Plain	Uplands	3	
27	Swan Coastal Plain	Valleys	3	
28	Southern Plains	Jarrah	3	
29	Southern Plains	Karri	1	
30	Southern Plains	Heath / Sedgeland	3	
31	South Coast Dunes	South Coast Dunes	3	
32	Blackwood Plateau	Jarrah Uplands	3	
33	Blackwood Plateau	Karri Uplands	1	
34	Blackwood Plateau	Depressions / Swamps	3	
35	Blackwood Plateau	Valleys	3	
36	Margaret River Plateau	Jarrah Uplands	3	
37	Margaret River Plateau	Karri Uplands	1	
38	Margaret River Plateau	Jarrah Valleys	3	
39	Margaret River Plateau	Karri Valleys	1	
40	Lewin Naturalist Coast	Jarrah	3	
41	Lewin Naturalist Coast	Marri/Karri	1	
42	Lewin Naturalist Coast	Coast Heath	3	
43	Scott Coastal Plain	Uplands	3	
44	Scott Coastal Plain	Valleys / Swamps	3	
45	Redmond	Uplands	3	M
46	Redmond	Valleys	3	
47	Unicup	Jarrah Uplands	2	
48	Unicup	Wandoo Uplands	2	
49	Unicup	Jarrah Valleys	2	
50	Unicup	Wandoo Valleys	2	
51	Unicup	Scrubland	2	
53	Darling Plateau	Wandoo Uplands South	2	
54	Darling Plateau	Wandoo Valleys South	2	

## Appendix 2b

Fauna Habitat ID	FDIS LAND SYSTEM	FDIS LANDSCAPE UNIT	SCORE	Origin
Glossy Swamp Skink				
1	Darling Plateau	Jarrah Uplands North	0	
2	Darling Plateau	Jarrah Uplands East	0	
3	Darling Plateau	Jarrah Uplands South	0	
4	Darling Plateau	Jarrah Uplands South East	0	
5	Darling Plateau	Karri Uplands	0	
6	Darling Plateau	Wandoo Uplands North	0	
7	Darling Plateau	Powder Bark Uplands	0	
8	Darling Plateau	Scarp	0	
9	Darling Plateau	Depression / Swamps North	2	
10	Darling Plateau	Depressions / Swamps South	3	
11	Darling Plateau	Depressions / Swamps East	2	
12	Darling Plateau	Depressions / Swamps South East	3	
13	Darling Plateau	Jarrah Valleys North	2	
14	Darling Plateau	Jarrah Valleys East	1	
15	Darling Plateau	Jarrah Valleys South	3	
16	Darling Plateau	Jarrah Valleys South East	3	
17	Darling Plateau	Karri Valleys	3	
18	Darling Plateau	Wandoo Valleys North	0	
19	Darling Plateau	Powder Bark Wandoo Valleys	0	
20	Darling Plateau	Granite Outcrops	0	
21	Various Systems	Esturies / Open Water	3	
22	Collie Plain	Uplands	0	
23	Collie Plain	Depressions / Swamps	2	
24	Dandaragan Plateau	Uplands	0	
25	Dandaragan Plateau	Valleys	0	
26	Swan Coastal Plain	Uplands	1	
27	Swan Coastal Plain	Valleys	2	
28	Southern Plains	Jarrah	2	
29	Southern Plains	Karri	2	
30	Southern Plains	Heath / Sedgeland	3	
31	South Coast Dunes	South Coast Dunes	3	
32	Blackwood Plateau	Jarrah Uplands	0	
33	Blackwood Plateau	Karri Uplands	1	
34	Blackwood Plateau	Depressions / Swamps	3	
35	Blackwood Plateau	Valleys	3	
36	Margaret River Plateau	Jarrah Uplands	1	
37	Margaret River Plateau	Karri Uplands	2	
38	Margaret River Plateau	Jarrah Valleys	3	
39	Margaret River Plateau	Karri Valleys	3	
40	Lewin Naturalist Coast	Jarrah	0	
41	Lewin Naturalist Coast	Marri/Karri	1	
42	Lewin Naturalist Coast	Coast Heath	2	
43	Scott Coastal Plain	Uplands	2	
44	Scott Coastal Plain	Valleys / Swamps	3	
45	Redmond	Uplands	2	
46	Redmond	Valleys	3	
47	Unicup	Jarrah Uplands	0	
48	Unicup	Wandoo Uplands	0	
49	Unicup	Jarrah Valleys	0	
50	Unicup	Wandoo Valleys	0	
51	Unicup	Scrubland	1	
53	Darling Plateau	Wandoo Uplands South	0	
54	Darling Plateau	Wandoo Valleys South	1	

## Appendix 2b

Fauna Habitat ID	FDIS LAND SYSTEM	FDIS LANDSCAPE UNIT	SCORE	Origin
South-western Crevice Skink				
1	Darling Plateau	Jarrah Uplands North	3	
2	Darling Plateau	Jarrah Uplands East	3	
3	Darling Plateau	Jarrah Uplands South	3	
4	Darling Plateau	Jarrah Uplands South East	3	
5	Darling Plateau	Karri Uplands	3	
6	Darling Plateau	Wandoo Uplands North	3	
7	Darling Plateau	Powder Bark Uplands	3	
8	Darling Plateau	Scarp	3	
9	Darling Plateau	Depression / Swamps North	3	
10	Darling Plateau	Depressions / Swamps South	3	
11	Darling Plateau	Depressions / Swamps East	3	
12	Darling Plateau	Depressions / Swamps South East	3	
13	Darling Plateau	Jarrah Valleys North	3	
14	Darling Plateau	Jarrah Valleys East	3	M
15	Darling Plateau	Jarrah Valleys South	3	
16	Darling Plateau	Jarrah Valleys South East	3	
17	Darling Plateau	Karri Valleys	3	
18	Darling Plateau	Wandoo Valleys North	3	
19	Darling Plateau	Powder Bark Wandoo Valleys	3	
20	Darling Plateau	Granite Outcrops	3	
21	Various Systems	Esturies / Open Water	0	
22	Collie Plain	Uplands	3	
23	Collie Plain	Depressions / Swamps	3	
24	Dandaragan Plateau	Uplands	3	
25	Dandaragan Plateau	Valleys	3	
26	Swan Coastal Plain	Uplands	3	
27	Swan Coastal Plain	Valleys	3	
28	Southern Plains	Jarrah	3	
29	Southern Plains	Karri	3	
30	Southern Plains	Heath / Sedgeland	3	
31	South Coast Dunes	South Coast Dunes	3	
32	Blackwood Plateau	Jarrah Uplands	3	
33	Blackwood Plateau	Karri Uplands	3	
34	Blackwood Plateau	Depressions / Swamps	3	
35	Blackwood Plateau	Valleys	3	
36	Margaret River Plateau	Jarrah Uplands	3	
37	Margaret River Plateau	Karri Uplands	3	
38	Margaret River Plateau	Jarrah Valleys	3	
39	Margaret River Plateau	Karri Valleys	3	
40	Lewin Naturalist Coast	Jarrah	3	
41	Lewin Naturalist Coast	Marri/Karri	3	
42	Lewin Naturalist Coast	Coast Heath	3	
43	Scott Coastal Plain	Uplands	3	
44	Scott Coastal Plain	Valleys / Swamps	3	
45	Redmond	Uplands	3	
46	Redmond	Valleys	3	
47	Unicup	Jarrah Uplands	3	
48	Unicup	Wandoo Uplands	3	
49	Unicup	Jarrah Valleys	3	
50	Unicup	Wandoo Valleys	3	
51	Unicup	Scrubland	3	
53	Darling Plateau	Wandoo Uplands South	3	
54	Darling Plateau	Wandoo Valleys South	3	

## Appendix 2b

Fauna Habitat ID	FDIS LAND SYSTEM	FDIS LANDSCAPE UNIT	SCORE	Origin
Spectacled Rock Skink				
1	Darling Plateau	Jarrah Uplands North	0	
2	Darling Plateau	Jarrah Uplands East	0	M
3	Darling Plateau	Jarrah Uplands South	1	M
4	Darling Plateau	Jarrah Uplands South East	1	
5	Darling Plateau	Karri Uplands	1	
6	Darling Plateau	Wandoo Uplands North	0	
7	Darling Plateau	Powder Bark Uplands	0	
8	Darling Plateau	Scarp	0	
9	Darling Plateau	Depression / Swamps North	0	
10	Darling Plateau	Depressions / Swamps South	0	
11	Darling Plateau	Depressions / Swamps East	0	
12	Darling Plateau	Depressions / Swamps South East	0	M
13	Darling Plateau	Jarrah Valleys North	0	
14	Darling Plateau	Jarrah Valleys East	0	M
15	Darling Plateau	Jarrah Valleys South	0	
16	Darling Plateau	Jarrah Valleys South East	0	
17	Darling Plateau	Karri Valleys	0	
18	Darling Plateau	Wandoo Valleys North	0	
19	Darling Plateau	Powder Bark Wandoo Valleys	0	M
20	Darling Plateau	Granite Outcrops	2	
21	Various Systems	Esturies / Open Water	0	M
22	Collie Plain	Uplands	0	
23	Collie Plain	Depressions / Swamps	0	
24	Dandaragan Plateau	Uplands	0	
25	Dandaragan Plateau	Valleys	0	
26	Swan Coastal Plain	Uplands	1	
27	Swan Coastal Plain	Valleys	1	
28	Southern Plains	Jarrah	3	
29	Southern Plains	Karri	0	
30	Southern Plains	Heath / Sedgeland	3	
31	South Coast Dunes	South Coast Dunes	2	
32	Blackwood Plateau	Jarrah Uplands	0	
33	Blackwood Plateau	Karri Uplands	0	
34	Blackwood Plateau	Depressions / Swamps	3	
35	Blackwood Plateau	Valleys	0	
36	Margaret River Plateau	Jarrah Uplands	0	
37	Margaret River Plateau	Karri Uplands	1	
38	Margaret River Plateau	Jarrah Valleys	1	
39	Margaret River Plateau	Karri Valleys	0	
40	Lewin Naturalist Coast	Jarrah	0	
41	Lewin Naturalist Coast	Marri/Karri	0	
42	Lewin Naturalist Coast	Coast Heath	2	
43	Scott Coastal Plain	Uplands	2	
44	Scott Coastal Plain	Valleys / Swamps	2	
45	Redmond	Uplands	3	
46	Redmond	Valleys	3	
47	Unicup	Jarrah Uplands	0	
48	Unicup	Wandoo Uplands	0	
49	Unicup	Jarrah Valleys	0	
50	Unicup	Wandoo Valleys	0	
51	Unicup	Scrubland	0	
53	Darling Plateau	Wandoo Uplands South	0	
54	Darling Plateau	Wandoo Valleys South	0	

## Appendix 2b

Fauna Habitat ID	FDIS LAND SYSTEM	FDIS LANDSCAPE UNIT	SCORE	Origin
Five-toed Earless Skink				
1	Darling Plateau	Jarrah Uplands North	3	
2	Darling Plateau	Jarrah Uplands East	1	M
3	Darling Plateau	Jarrah Uplands South	1	
4	Darling Plateau	Jarrah Uplands South East	0	M
5	Darling Plateau	Karri Uplands	0	
6	Darling Plateau	Wandoo Uplands North	0	M
7	Darling Plateau	Powder Bark Uplands	0	
8	Darling Plateau	Scarp	3	
9	Darling Plateau	Depression / Swamps North	2	
10	Darling Plateau	Depressions / Swamps South	0	
11	Darling Plateau	Depressions / Swamps East	1	
12	Darling Plateau	Depressions / Swamps South East	0	
13	Darling Plateau	Jarrah Valleys North	2	
14	Darling Plateau	Jarrah Valleys East	0	
15	Darling Plateau	Jarrah Valleys South	0	
16	Darling Plateau	Jarrah Valleys South East	0	
17	Darling Plateau	Karri Valleys	0	
18	Darling Plateau	Wandoo Valleys North	1	M
19	Darling Plateau	Powder Bark Wandoo Valleys	0	
20	Darling Plateau	Granite Outcrops	1	
21	Various Systems	Esturies / Open Water	0	
22	Collie Plain	Uplands	2	
23	Collie Plain	Depressions / Swamps	0	
24	Dandaragan Plateau	Uplands	0	
25	Dandaragan Plateau	Valleys	0	
26	Swan Coastal Plain	Uplands	0	
27	Swan Coastal Plain	Valleys	0	
28	Southern Plains	Jarrah	2	
29	Southern Plains	Karri	0	
30	Southern Plains	Heath / Sedgeland	0	M
31	South Coast Dunes	South Coast Dunes	0	
32	Blackwood Plateau	Jarrah Uplands	2	M
33	Blackwood Plateau	Karri Uplands	0	M
34	Blackwood Plateau	Depressions / Swamps	0	
35	Blackwood Plateau	Valleys	2	M
36	Margaret River Plateau	Jarrah Uplands	0	M
37	Margaret River Plateau	Karri Uplands	0	M
38	Margaret River Plateau	Jarrah Valleys	0	M
39	Margaret River Plateau	Karri Valleys	0	
40	Lewin Naturalist Coast	Jarrah	0	M
41	Lewin Naturalist Coast	Marri/Karri	0	
42	Lewin Naturalist Coast	Coast Heath	0	M
43	Scott Coastal Plain	Uplands	2	M
44	Scott Coastal Plain	Valleys / Swamps	0	M
45	Redmond	Uplands	0	M
46	Redmond	Valleys	0	M
47	Unicup	Jarrah Uplands	0	
48	Unicup	Wandoo Uplands	0	
49	Unicup	Jarrah Valleys	0	
50	Unicup	Wandoo Valleys	0	
51	Unicup	Scrubland	0	
53	Darling Plateau	Wandoo Uplands South	0	
54	Darling Plateau	Wandoo Valleys South	1	

## Appendix 2b

Fauna Habitat ID	FDIS LAND SYSTEM	FDIS LANDSCAPE UNIT	SCORE	Origin
Four-toed Earless Skink				
1	Darling Plateau	Jarrah Uplands North	0	
2	Darling Plateau	Jarrah Uplands East	0	
3	Darling Plateau	Jarrah Uplands South	3	
4	Darling Plateau	Jarrah Uplands South East	3	
5	Darling Plateau	Karri Uplands	3	
6	Darling Plateau	Wandoo Uplands North	0	
7	Darling Plateau	Powder Bark Uplands	0	
8	Darling Plateau	Scarp	2	
9	Darling Plateau	Depression / Swamps North	0	
10	Darling Plateau	Depressions / Swamps South	3	
11	Darling Plateau	Depressions / Swamps East	1	
12	Darling Plateau	Depressions / Swamps South East	3	M
13	Darling Plateau	Jarrah Valleys North	1	
14	Darling Plateau	Jarrah Valleys East	1	M
15	Darling Plateau	Jarrah Valleys South	3	
16	Darling Plateau	Jarrah Valleys South East	3	
17	Darling Plateau	Karri Valleys	3	
18	Darling Plateau	Wandoo Valleys North	0	
19	Darling Plateau	Powder Bark Wandoo Valleys	0	
20	Darling Plateau	Granite Outcrops	2	
21	Various Systems	Esturies / Open Water	0	
22	Collie Plain	Uplands	0	
23	Collie Plain	Depressions / Swamps	2	
24	Dandaragan Plateau	Uplands	0	
25	Dandaragan Plateau	Valleys	0	
26	Swan Coastal Plain	Uplands	0	
27	Swan Coastal Plain	Valleys	0	
28	Southern Plains	Jarrah	3	
29	Southern Plains	Karri	3	
30	Southern Plains	Heath / Sedgeland	3	
31	South Coast Dunes	South Coast Dunes	3	M
32	Blackwood Plateau	Jarrah Uplands	3	M
33	Blackwood Plateau	Karri Uplands	3	
34	Blackwood Plateau	Depressions / Swamps	3	
35	Blackwood Plateau	Valleys	3	
36	Margaret River Plateau	Jarrah Uplands	0	
37	Margaret River Plateau	Karri Uplands	0	
38	Margaret River Plateau	Jarrah Valleys	0	
39	Margaret River Plateau	Karri Valleys	0	
40	Lewin Naturalist Coast	Jarrah	0	
41	Lewin Naturalist Coast	Marri/Karri	0	
42	Lewin Naturalist Coast	Coast Heath	0	
43	Scott Coastal Plain	Uplands	3	M
44	Scott Coastal Plain	Valleys / Swamps	3	
45	Redmond	Uplands	3	
46	Redmond	Valleys	3	M
47	Unicup	Jarrah Uplands	2	M
48	Unicup	Wandoo Uplands	2	
49	Unicup	Jarrah Valleys	2	
50	Unicup	Wandoo Valleys	2	
51	Unicup	Scrubland	2	
53	Darling Plateau	Wandoo Uplands South	3	
54	Darling Plateau	Wandoo Valleys South	3	



## Appendix 2b

Fauna Habitat ID	FDIS LAND SYSTEM	FDIS LANDSCAPE UNIT	SCORE	Origin
Three-toed Earless Skink				
1	Darling Plateau	Jarrah Uplands North	1	
2	Darling Plateau	Jarrah Uplands East	0	
3	Darling Plateau	Jarrah Uplands South	2	
4	Darling Plateau	Jarrah Uplands South East	0	
5	Darling Plateau	Karri Uplands	0	
6	Darling Plateau	Wandoo Uplands North	0	
7	Darling Plateau	Powder Bark Uplands	0	
8	Darling Plateau	Scarp	2	
9	Darling Plateau	Depression / Swamps North	0	
10	Darling Plateau	Depressions / Swamps South	0	
11	Darling Plateau	Depressions / Swamps East	0	
12	Darling Plateau	Depressions / Swamps South East	0	
13	Darling Plateau	Jarrah Valleys North	1	
14	Darling Plateau	Jarrah Valleys East	0	
15	Darling Plateau	Jarrah Valleys South	2	
16	Darling Plateau	Jarrah Valleys South East	0	
17	Darling Plateau	Karri Valleys	0	
18	Darling Plateau	Wandoo Valleys North	0	
19	Darling Plateau	Powder Bark Wandoo Valleys	0	
20	Darling Plateau	Granite Outcrops	0	
21	Various Systems	Esturies / Open Water	0	
22	Collie Plain	Uplands	0	
23	Collie Plain	Depressions / Swamps	2	
24	Dandaragan Plateau	Uplands	0	
25	Dandaragan Plateau	Valleys	0	
26	Swan Coastal Plain	Uplands	2	
27	Swan Coastal Plain	Valleys	2	
28	Southern Plains	Jarrah	0	
29	Southern Plains	Karri	0	
30	Southern Plains	Heath / Sedgeland	0	
31	South Coast Dunes	South Coast Dunes	0	
32	Blackwood Plateau	Jarrah Uplands	3	M
33	Blackwood Plateau	Karri Uplands	3	
34	Blackwood Plateau	Depressions / Swamps	3	
35	Blackwood Plateau	Valleys	3	
36	Margaret River Plateau	Jarrah Uplands	3	
37	Margaret River Plateau	Karri Uplands	3	M
38	Margaret River Plateau	Jarrah Valleys	3	
39	Margaret River Plateau	Karri Valleys	3	M
40	Lewin Naturalist Coast	Jarrah	3	M
41	Lewin Naturalist Coast	Marri/Karri	3	
42	Lewin Naturalist Coast	Coast Heath	3	M
43	Scott Coastal Plain	Uplands	3	M
44	Scott Coastal Plain	Valleys / Swamps	3	
45	Redmond	Uplands	0	
46	Redmond	Valleys	0	
47	Unicup	Jarrah Uplands	0	
48	Unicup	Wandoo Uplands	0	
49	Unicup	Jarrah Valleys	0	
50	Unicup	Wandoo Valleys	0	
51	Unicup	Scrubland	0	
53	Darling Plateau	Wandoo Uplands South	0	
54	Darling Plateau	Wandoo Valleys South	0	

## Appendix 2b

Fauna Habitat ID	FDIS LAND SYSTEM	FDIS LANDSCAPE UNIT	SCORE	Origin
South-western Cool Skink				
1	Darling Plateau	Jarrah Uplands North	1	
2	Darling Plateau	Jarrah Uplands East	0	M
3	Darling Plateau	Jarrah Uplands South	0	M
4	Darling Plateau	Jarrah Uplands South East	1	
5	Darling Plateau	Karri Uplands	0	
6	Darling Plateau	Wandoo Uplands North	0	
7	Darling Plateau	Powder Bark Uplands	0	
8	Darling Plateau	Scarp	0	
9	Darling Plateau	Depression / Swamps North	1	
10	Darling Plateau	Depressions / Swamps South	2	
11	Darling Plateau	Depressions / Swamps East	1	
12	Darling Plateau	Depressions / Swamps South East	2	M
13	Darling Plateau	Jarrah Valleys North	1	
14	Darling Plateau	Jarrah Valleys East	0	M
15	Darling Plateau	Jarrah Valleys South	2	
16	Darling Plateau	Jarrah Valleys South East	2	
17	Darling Plateau	Karri Valleys	0	
18	Darling Plateau	Wandoo Valleys North	0	
19	Darling Plateau	Powder Bark Wandoo Valleys	0	M
20	Darling Plateau	Granite Outcrops	0	
21	Various Systems	Esturies / Open Water	0	M
22	Collie Plain	Uplands	0	
23	Collie Plain	Depressions / Swamps	2	
24	Dandaragan Plateau	Uplands	0	
25	Dandaragan Plateau	Valleys	0	
26	Swan Coastal Plain	Uplands	0	
27	Swan Coastal Plain	Valleys	0	
28	Southern Plains	Jarrah	2	
29	Southern Plains	Karri	0	
30	Southern Plains	Heath / Sedgeland	2	
31	South Coast Dunes	South Coast Dunes	2	
32	Blackwood Plateau	Jarrah Uplands	0	
33	Blackwood Plateau	Karri Uplands	0	
34	Blackwood Plateau	Depressions / Swamps	2	
35	Blackwood Plateau	Valleys	2	
36	Margaret River Plateau	Jarrah Uplands	1	
37	Margaret River Plateau	Karri Uplands	0	
38	Margaret River Plateau	Jarrah Valleys	2	
39	Margaret River Plateau	Karri Valleys	1	
40	Lewin Naturalist Coast	Jarrah	0	M
41	Lewin Naturalist Coast	Marri/Karri	1	
42	Lewin Naturalist Coast	Coast Heath	2	
43	Scott Coastal Plain	Uplands	2	
44	Scott Coastal Plain	Valleys / Swamps	2	
45	Redmond	Uplands	2	
46	Redmond	Valleys	2	
47	Unicup	Jarrah Uplands	0	
48	Unicup	Wandoo Uplands	0	
49	Unicup	Jarrah Valleys	0	
50	Unicup	Wandoo Valleys	0	
51	Unicup	Scrubland	2	
53	Darling Plateau	Wandoo Uplands South	0	
54	Darling Plateau	Wandoo Valleys South	0	

## Appendix 2b

Fauna Habitat ID	FDIS LAND SYSTEM	FDIS LANDSCAPE UNIT	SCORE	Origin
South-western Orange-tailed Skink				
1	Darling Plateau	Jarrah Uplands North	2	
2	Darling Plateau	Jarrah Uplands East	2	
3	Darling Plateau	Jarrah Uplands South	0	
4	Darling Plateau	Jarrah Uplands South East	2	
5	Darling Plateau	Karri Uplands	0	
6	Darling Plateau	Wandoo Uplands North	0	
7	Darling Plateau	Powder Bark Uplands	0	
8	Darling Plateau	Scarp	2	
9	Darling Plateau	Depression / Swamps North	2	
10	Darling Plateau	Depressions / Swamps South	0	
11	Darling Plateau	Depressions / Swamps East	1	
12	Darling Plateau	Depressions / Swamps South East	2	
13	Darling Plateau	Jarrah Valleys North	1	
14	Darling Plateau	Jarrah Valleys East	1	
15	Darling Plateau	Jarrah Valleys South	0	
16	Darling Plateau	Jarrah Valleys South East	2	
17	Darling Plateau	Karri Valleys	0	
18	Darling Plateau	Wandoo Valleys North	1	
19	Darling Plateau	Powder Bark Wandoo Valleys	0	
20	Darling Plateau	Granite Outcrops	1	
21	Various Systems	Esturies / Open Water	0	
22	Collie Plain	Uplands	2	
23	Collie Plain	Depressions / Swamps	0	
24	Dandaragan Plateau	Uplands	1	
25	Dandaragan Plateau	Valleys	1	
26	Swan Coastal Plain	Uplands	2	
27	Swan Coastal Plain	Valleys	2	
28	Southern Plains	Jarrah	1	
29	Southern Plains	Karri	0	
30	Southern Plains	Heath / Sedgeland	0	
31	South Coast Dunes	South Coast Dunes	2	
32	Blackwood Plateau	Jarrah Uplands	2	
33	Blackwood Plateau	Karri Uplands	0	
34	Blackwood Plateau	Depressions / Swamps	2	
35	Blackwood Plateau	Valleys	1	
36	Margaret River Plateau	Jarrah Uplands	2	
37	Margaret River Plateau	Karri Uplands	0	
38	Margaret River Plateau	Jarrah Valleys	1	
39	Margaret River Plateau	Karri Valleys	1	
40	Lewin Naturalist Coast	Jarrah	2	
41	Lewin Naturalist Coast	Marri/Karri	0	
42	Lewin Naturalist Coast	Coast Heath	2	
43	Scott Coastal Plain	Uplands	2	
44	Scott Coastal Plain	Valleys / Swamps	2	
45	Redmond	Uplands	2	
46	Redmond	Valleys	1	
47	Unicup	Jarrah Uplands	0	
48	Unicup	Wandoo Uplands	0	
49	Unicup	Jarrah Valleys	0	
50	Unicup	Wandoo Valleys	0	
51	Unicup	Scrubland	0	
53	Darling Plateau	Wandoo Uplands South	0	
54	Darling Plateau	Wandoo Valleys South	1	

## Appendix 2b

Fauna Habitat ID	FDIS LAND SYSTEM	FDIS LANDSCAPE UNIT	SCORE	Origin
Elegant Slider				
1	Darling Plateau	Jarrah Uplands North	0	
2	Darling Plateau	Jarrah Uplands East	0	
3	Darling Plateau	Jarrah Uplands South	0	
4	Darling Plateau	Jarrah Uplands South East	0	
5	Darling Plateau	Karri Uplands	0	
6	Darling Plateau	Wandoo Uplands North	0	M
7	Darling Plateau	Powder Bark Uplands	0	
8	Darling Plateau	Scarp	0	
9	Darling Plateau	Depression / Swamps North	0	
10	Darling Plateau	Depressions / Swamps South	0	
11	Darling Plateau	Depressions / Swamps East	0	
12	Darling Plateau	Depressions / Swamps South East	0	M
13	Darling Plateau	Jarrah Valleys North	0	
14	Darling Plateau	Jarrah Valleys East	0	
15	Darling Plateau	Jarrah Valleys South	0	
16	Darling Plateau	Jarrah Valleys South East	0	
17	Darling Plateau	Karri Valleys	0	
18	Darling Plateau	Wandoo Valleys North	0	
19	Darling Plateau	Powder Bark Wandoo Valleys	0	
20	Darling Plateau	Granite Outcrops	0	
21	Various Systems	Esturies / Open Water	0	
22	Collie Plain	Uplands	0	
23	Collie Plain	Depressions / Swamps	0	
24	Dandaragan Plateau	Uplands	0	
25	Dandaragan Plateau	Valleys	0	
26	Swan Coastal Plain	Uplands	2	
27	Swan Coastal Plain	Valleys	2	
28	Southern Plains	Jarrah	0	
29	Southern Plains	Karri	0	
30	Southern Plains	Heath / Sedgeland	0	
31	South Coast Dunes	South Coast Dunes	0	M
32	Blackwood Plateau	Jarrah Uplands	0	M
33	Blackwood Plateau	Karri Uplands	0	
34	Blackwood Plateau	Depressions / Swamps	0	
35	Blackwood Plateau	Valleys	0	
36	Margaret River Plateau	Jarrah Uplands	0	
37	Margaret River Plateau	Karri Uplands	0	
38	Margaret River Plateau	Jarrah Valleys	0	
39	Margaret River Plateau	Karri Valleys	0	
40	Lewin Naturalist Coast	Jarrah	0	
41	Lewin Naturalist Coast	Marri/Karri	0	
42	Lewin Naturalist Coast	Coast Heath	0	
43	Scott Coastal Plain	Uplands	0	
44	Scott Coastal Plain	Valleys / Swamps	0	M
45	Redmond	Uplands	0	M
46	Redmond	Valleys	0	
47	Unicup	Jarrah Uplands	0	
48	Unicup	Wandoo Uplands	0	
49	Unicup	Jarrah Valleys	0	
50	Unicup	Wandoo Valleys	0	
51	Unicup	Scrubland	0	
53	Darling Plateau	Wandoo Uplands South	0	
54	Darling Plateau	Wandoo Valleys South	0	

## Appendix 2b

Fauna Habitat ID	FDIS LAND SYSTEM	FDIS LANDSCAPE UNIT	SCORE	Origin
Slippery Skink				
1	Darling Plateau	Jarrah Uplands North	2	
2	Darling Plateau	Jarrah Uplands East	1	
3	Darling Plateau	Jarrah Uplands South	3	
4	Darling Plateau	Jarrah Uplands South East	2	
5	Darling Plateau	Karri Uplands	1	
6	Darling Plateau	Wandoo Uplands North	0	
7	Darling Plateau	Powder Bark Uplands	0	
8	Darling Plateau	Scarp	1	
9	Darling Plateau	Depression / Swamps North	2	
10	Darling Plateau	Depressions / Swamps South	2	
11	Darling Plateau	Depressions / Swamps East	1	
12	Darling Plateau	Depressions / Swamps South East	2	
13	Darling Plateau	Jarrah Valleys North	2	
14	Darling Plateau	Jarrah Valleys East	0	
15	Darling Plateau	Jarrah Valleys South	3	
16	Darling Plateau	Jarrah Valleys South East	2	
17	Darling Plateau	Karri Valleys	0	
18	Darling Plateau	Wandoo Valleys North	0	
19	Darling Plateau	Powder Bark Wandoo Valleys	0	
20	Darling Plateau	Granite Outcrops	0	
21	Various Systems	Esturies / Open Water	0	
22	Collie Plain	Uplands	2	
23	Collie Plain	Depressions / Swamps	2	
24	Dandaragan Plateau	Uplands	0	
25	Dandaragan Plateau	Valleys	0	
26	Swan Coastal Plain	Uplands	0	
27	Swan Coastal Plain	Valleys	0	
28	Southern Plains	Jarrah	1	
29	Southern Plains	Karri	0	
30	Southern Plains	Heath / Sedgeland	1	
31	South Coast Dunes	South Coast Dunes	1	
32	Blackwood Plateau	Jarrah Uplands	0	
33	Blackwood Plateau	Karri Uplands	0	
34	Blackwood Plateau	Depressions / Swamps	2	
35	Blackwood Plateau	Valleys	0	
36	Margaret River Plateau	Jarrah Uplands	0	
37	Margaret River Plateau	Karri Uplands	0	
38	Margaret River Plateau	Jarrah Valleys	0	
39	Margaret River Plateau	Karri Valleys	0	
40	Lewin Naturalist Coast	Jarrah	0	
41	Lewin Naturalist Coast	Marri/Karri	0	
42	Lewin Naturalist Coast	Coast Heath	0	
43	Scott Coastal Plain	Uplands	1	
44	Scott Coastal Plain	Valleys / Swamps	1	
45	Redmond	Uplands	1	
46	Redmond	Valleys	1	
47	Unicup	Jarrah Uplands	2	
48	Unicup	Wandoo Uplands	2	
49	Unicup	Jarrah Valleys	2	
50	Unicup	Wandoo Valleys	2	
51	Unicup	Scrubland	2	
53	Darling Plateau	Wandoo Uplands South	0	
54	Darling Plateau	Wandoo Valleys South	0	

## Appendix 2b

Fauna Habitat ID	FDIS LAND SYSTEM	FDIS LANDSCAPE UNIT	SCORE	Origin
Common Dwarf Skink				
1	Darling Plateau	Jarrah Uplands North	2	
2	Darling Plateau	Jarrah Uplands East	2	
3	Darling Plateau	Jarrah Uplands South	2	
4	Darling Plateau	Jarrah Uplands South East	2	
5	Darling Plateau	Karri Uplands	0	
6	Darling Plateau	Wandoo Uplands North	2	
7	Darling Plateau	Powder Bark Uplands	2	
8	Darling Plateau	Scarp	2	
9	Darling Plateau	Depression / Swamps North	2	
10	Darling Plateau	Depressions / Swamps South	2	
11	Darling Plateau	Depressions / Swamps East	2	
12	Darling Plateau	Depressions / Swamps South East	2	
13	Darling Plateau	Jarrah Valleys North	2	
14	Darling Plateau	Jarrah Valleys East	2	
15	Darling Plateau	Jarrah Valleys South	2	
16	Darling Plateau	Jarrah Valleys South East	2	
17	Darling Plateau	Karri Valleys	0	
18	Darling Plateau	Wandoo Valleys North	2	
19	Darling Plateau	Powder Bark Wandoo Valleys	2	
20	Darling Plateau	Granite Outcrops	2	
21	Various Systems	Esturies / Open Water	0	
22	Collie Plain	Uplands	2	
23	Collie Plain	Depressions / Swamps	2	
24	Dandaragan Plateau	Uplands	2	
25	Dandaragan Plateau	Valleys	2	
26	Swan Coastal Plain	Uplands	2	
27	Swan Coastal Plain	Valleys	2	
28	Southern Plains	Jarrah	0	
29	Southern Plains	Karri	0	
30	Southern Plains	Heath / Sedgeland	0	
31	South Coast Dunes	South Coast Dunes	0	
32	Blackwood Plateau	Jarrah Uplands	2	
33	Blackwood Plateau	Karri Uplands	0	
34	Blackwood Plateau	Depressions / Swamps	2	
35	Blackwood Plateau	Valleys	2	
36	Margaret River Plateau	Jarrah Uplands	2	
37	Margaret River Plateau	Karri Uplands	0	
38	Margaret River Plateau	Jarrah Valleys	2	
39	Margaret River Plateau	Karri Valleys	2	
40	Lewin Naturalist Coast	Jarrah	2	
41	Lewin Naturalist Coast	Marri/Karri	0	
42	Lewin Naturalist Coast	Coast Heath	2	
43	Scott Coastal Plain	Uplands	0	
44	Scott Coastal Plain	Valleys / Swamps	2	
45	Redmond	Uplands	2	
46	Redmond	Valleys	2	
47	Unicup	Jarrah Uplands	2	
48	Unicup	Wandoo Uplands	2	
49	Unicup	Jarrah Valleys	2	
50	Unicup	Wandoo Valleys	2	
51	Unicup	Scrubland	2	
53	Darling Plateau	Wandoo Uplands South	2	
54	Darling Plateau	Wandoo Valleys South	2	

## Appendix 2b

Fauna Habitat ID	FDIS LAND SYSTEM	FDIS LANDSCAPE UNIT	SCORE	Origin
Western Pale-flecked Skink				
1	Darling Plateau	Jarrah Uplands North	0	
2	Darling Plateau	Jarrah Uplands East	0	
3	Darling Plateau	Jarrah Uplands South	0	
4	Darling Plateau	Jarrah Uplands South East	0	
5	Darling Plateau	Karri Uplands	0	
6	Darling Plateau	Wandoo Uplands North	0	
7	Darling Plateau	Powder Bark Uplands	0	
8	Darling Plateau	Scarp	0	
9	Darling Plateau	Depression / Swamps North	0	
10	Darling Plateau	Depressions / Swamps South	2	
11	Darling Plateau	Depressions / Swamps East	0	
12	Darling Plateau	Depressions / Swamps South East	0	
13	Darling Plateau	Jarrah Valleys North	0	
14	Darling Plateau	Jarrah Valleys East	0	
15	Darling Plateau	Jarrah Valleys South	0	
16	Darling Plateau	Jarrah Valleys South East	0	
17	Darling Plateau	Karri Valleys	0	
18	Darling Plateau	Wandoo Valleys North	0	
19	Darling Plateau	Powder Bark Wandoo Valleys	0	
20	Darling Plateau	Granite Outcrops	0	
21	Various Systems	Esturies / Open Water	0	
22	Collie Plain	Uplands	0	
23	Collie Plain	Depressions / Swamps	0	
24	Dandaragan Plateau	Uplands	0	
25	Dandaragan Plateau	Valleys	0	
26	Swan Coastal Plain	Uplands	2	
27	Swan Coastal Plain	Valleys	2	
28	Southern Plains	Jarrah	0	
29	Southern Plains	Karri	0	
30	Southern Plains	Heath / Sedgeland	0	
31	South Coast Dunes	South Coast Dunes	0	
32	Blackwood Plateau	Jarrah Uplands	0	
33	Blackwood Plateau	Karri Uplands	0	
34	Blackwood Plateau	Depressions / Swamps	2	
35	Blackwood Plateau	Valleys	0	
36	Margaret River Plateau	Jarrah Uplands	0	
37	Margaret River Plateau	Karri Uplands	0	
38	Margaret River Plateau	Jarrah Valleys	0	
39	Margaret River Plateau	Karri Valleys	0	
40	Lewin Naturalist Coast	Jarrah	0	
41	Lewin Naturalist Coast	Marri/Karri	0	
42	Lewin Naturalist Coast	Coast Heath	2	
43	Scott Coastal Plain	Uplands	2	
44	Scott Coastal Plain	Valleys / Swamps	0	
45	Redmond	Uplands	0	
46	Redmond	Valleys	0	
47	Unicup	Jarrah Uplands	0	
48	Unicup	Wandoo Uplands	0	
49	Unicup	Jarrah Valleys	0	
50	Unicup	Wandoo Valleys	0	
51	Unicup	Scrubland	0	
53	Darling Plateau	Wandoo Uplands South	0	
54	Darling Plateau	Wandoo Valleys South	0	

## Appendix 2b

Fauna Habitat ID	FDIS LAND SYSTEM	FDIS LANDSCAPE UNIT	SCORE	Origin
Woodland Skink				
1	Darling Plateau	Jarrah Uplands North	2	
2	Darling Plateau	Jarrah Uplands East	2	
3	Darling Plateau	Jarrah Uplands South	3	
4	Darling Plateau	Jarrah Uplands South East	2	M
5	Darling Plateau	Karri Uplands	0	
6	Darling Plateau	Wandoo Uplands North	1	M
7	Darling Plateau	Powder Bark Uplands	2	
8	Darling Plateau	Scarp	2	
9	Darling Plateau	Depression / Swamps North	2	
10	Darling Plateau	Depressions / Swamps South	0	
11	Darling Plateau	Depressions / Swamps East	2	
12	Darling Plateau	Depressions / Swamps South East	3	
13	Darling Plateau	Jarrah Valleys North	2	
14	Darling Plateau	Jarrah Valleys East	2	M
15	Darling Plateau	Jarrah Valleys South	3	
16	Darling Plateau	Jarrah Valleys South East	2	
17	Darling Plateau	Karri Valleys	0	
18	Darling Plateau	Wandoo Valleys North	1	
19	Darling Plateau	Powder Bark Wandoo Valleys	2	
20	Darling Plateau	Granite Outcrops	0	
21	Various Systems	Esturies / Open Water	0	
22	Collie Plain	Uplands	2	
23	Collie Plain	Depressions / Swamps	2	
24	Dandaragan Plateau	Uplands	2	
25	Dandaragan Plateau	Valleys	2	
26	Swan Coastal Plain	Uplands	2	
27	Swan Coastal Plain	Valleys	2	
28	Southern Plains	Jarrah	2	
29	Southern Plains	Karri	0	
30	Southern Plains	Heath / Sedgeland	0	
31	South Coast Dunes	South Coast Dunes	3	
32	Blackwood Plateau	Jarrah Uplands	3	
33	Blackwood Plateau	Karri Uplands	0	
34	Blackwood Plateau	Depressions / Swamps	3	
35	Blackwood Plateau	Valleys	3	
36	Margaret River Plateau	Jarrah Uplands	0	
37	Margaret River Plateau	Karri Uplands	0	
38	Margaret River Plateau	Jarrah Valleys	0	
39	Margaret River Plateau	Karri Valleys	0	
40	Lewin Naturalist Coast	Jarrah	0	
41	Lewin Naturalist Coast	Marri/Karri	0	
42	Lewin Naturalist Coast	Coast Heath	0	
43	Scott Coastal Plain	Uplands	3	
44	Scott Coastal Plain	Valleys / Swamps	3	
45	Redmond	Uplands	2	
46	Redmond	Valleys	0	
47	Unicup	Jarrah Uplands	2	
48	Unicup	Wandoo Uplands	2	
49	Unicup	Jarrah Valleys	2	
50	Unicup	Wandoo Valleys	2	
51	Unicup	Scrubland	2	
53	Darling Plateau	Wandoo Uplands South	2	
54	Darling Plateau	Wandoo Valleys South	2	



## Appendix 2b

Fauna Habitat ID	FDIS LAND SYSTEM	FDIS LANDSCAPE UNIT	SCORE	Origin
South-western Mulch Skink				
1	Darling Plateau	Jarrah Uplands North	0	
2	Darling Plateau	Jarrah Uplands East	0	
3	Darling Plateau	Jarrah Uplands South	1	
4	Darling Plateau	Jarrah Uplands South East	0	
5	Darling Plateau	Karri Uplands	1	
6	Darling Plateau	Wandoo Uplands North	0	
7	Darling Plateau	Powder Bark Uplands	0	
8	Darling Plateau	Scarp	0	
9	Darling Plateau	Depression / Swamps North	2	
10	Darling Plateau	Depressions / Swamps South	3	
11	Darling Plateau	Depressions / Swamps East	0	
12	Darling Plateau	Depressions / Swamps South East	2	
13	Darling Plateau	Jarrah Valleys North	1	
14	Darling Plateau	Jarrah Valleys East	0	
15	Darling Plateau	Jarrah Valleys South	2	
16	Darling Plateau	Jarrah Valleys South East	2	
17	Darling Plateau	Karri Valleys	1	
18	Darling Plateau	Wandoo Valleys North	0	
19	Darling Plateau	Powder Bark Wandoo Valleys	0	
20	Darling Plateau	Granite Outcrops	0	
21	Various Systems	Esturies / Open Water	0	
22	Collie Plain	Uplands	0	
23	Collie Plain	Depressions / Swamps	1	
24	Dandaragan Plateau	Uplands	0	
25	Dandaragan Plateau	Valleys	0	
26	Swan Coastal Plain	Uplands	0	
27	Swan Coastal Plain	Valleys	0	
28	Southern Plains	Jarrah	2	
29	Southern Plains	Karri	0	
30	Southern Plains	Heath / Sedgeland	2	
31	South Coast Dunes	South Coast Dunes	1	
32	Blackwood Plateau	Jarrah Uplands	0	
33	Blackwood Plateau	Karri Uplands	0	
34	Blackwood Plateau	Depressions / Swamps	1	
35	Blackwood Plateau	Valleys	1	
36	Margaret River Plateau	Jarrah Uplands	0	
37	Margaret River Plateau	Karri Uplands	0	
38	Margaret River Plateau	Jarrah Valleys	1	
39	Margaret River Plateau	Karri Valleys	0	
40	Lewin Naturalist Coast	Jarrah	0	
41	Lewin Naturalist Coast	Marri/Karri	0	
42	Lewin Naturalist Coast	Coast Heath	1	
43	Scott Coastal Plain	Uplands	0	
44	Scott Coastal Plain	Valleys / Swamps	2	
45	Redmond	Uplands	2	
46	Redmond	Valleys	2	
47	Unicup	Jarrah Uplands	0	
48	Unicup	Wandoo Uplands	0	
49	Unicup	Jarrah Valleys	0	
50	Unicup	Wandoo Valleys	0	
51	Unicup	Scrubland	0	
53	Darling Plateau	Wandoo Uplands South	0	
54	Darling Plateau	Wandoo Valleys South	0	

## Appendix 2b

Fauna Habitat ID	FDIS LAND SYSTEM	FDIS LANDSCAPE UNIT	SCORE	Origin
Bobtail				
1	Darling Plateau	Jarrah Uplands North	3	
2	Darling Plateau	Jarrah Uplands East	3	
3	Darling Plateau	Jarrah Uplands South	3	
4	Darling Plateau	Jarrah Uplands South East	3	
5	Darling Plateau	Karri Uplands	2	
6	Darling Plateau	Wandoo Uplands North	3	
7	Darling Plateau	Powder Bark Uplands	3	
8	Darling Plateau	Scarp	3	
9	Darling Plateau	Depression / Swamps North	3	
10	Darling Plateau	Depressions / Swamps South	2	
11	Darling Plateau	Depressions / Swamps East	3	
12	Darling Plateau	Depressions / Swamps South East	2	
13	Darling Plateau	Jarrah Valleys North	3	
14	Darling Plateau	Jarrah Valleys East	3	
15	Darling Plateau	Jarrah Valleys South	3	
16	Darling Plateau	Jarrah Valleys South East	3	
17	Darling Plateau	Karri Valleys	2	
18	Darling Plateau	Wandoo Valleys North	3	
19	Darling Plateau	Powder Bark Wandoo Valleys	3	
20	Darling Plateau	Granite Outcrops	3	
21	Various Systems	Esturies / Open Water	0	
22	Collie Plain	Uplands	3	
23	Collie Plain	Depressions / Swamps	3	
24	Dandaragan Plateau	Uplands	3	
25	Dandaragan Plateau	Valleys	3	
26	Swan Coastal Plain	Uplands	3	
27	Swan Coastal Plain	Valleys	3	
28	Southern Plains	Jarrah	3	
29	Southern Plains	Karri	2	
30	Southern Plains	Heath / Sedgeland	2	
31	South Coast Dunes	South Coast Dunes	3	
32	Blackwood Plateau	Jarrah Uplands	3	
33	Blackwood Plateau	Karri Uplands	2	
34	Blackwood Plateau	Depressions / Swamps	2	
35	Blackwood Plateau	Valleys	3	
36	Margaret River Plateau	Jarrah Uplands	3	
37	Margaret River Plateau	Karri Uplands	2	
38	Margaret River Plateau	Jarrah Valleys	3	
39	Margaret River Plateau	Karri Valleys	2	
40	Lewin Naturalist Coast	Jarrah	3	
41	Lewin Naturalist Coast	Marri/Karri	2	
42	Lewin Naturalist Coast	Coast Heath	3	
43	Scott Coastal Plain	Uplands	3	
44	Scott Coastal Plain	Valleys / Swamps	2	
45	Redmond	Uplands	3	
46	Redmond	Valleys	3	
47	Unicup	Jarrah Uplands	3	
48	Unicup	Wandoo Uplands	3	
49	Unicup	Jarrah Valleys	3	
50	Unicup	Wandoo Valleys	3	
51	Unicup	Scrubland	3	
53	Darling Plateau	Wandoo Uplands South	3	
54	Darling Plateau	Wandoo Valleys South	3	

## Appendix 2b

Fauna Habitat ID	FDIS LAND SYSTEM	FDIS LANDSCAPE UNIT	SCORE	Origin
Clawless Gecko				
1	Darling Plateau	Jarrah Uplands North	0	
2	Darling Plateau	Jarrah Uplands East	0	
3	Darling Plateau	Jarrah Uplands South	0	
4	Darling Plateau	Jarrah Uplands South East	0	
5	Darling Plateau	Karri Uplands	0	
6	Darling Plateau	Wandoo Uplands North	0	
7	Darling Plateau	Powder Bark Uplands	1	
8	Darling Plateau	Scarp	0	
9	Darling Plateau	Depression / Swamps North	0	
10	Darling Plateau	Depressions / Swamps South	0	
11	Darling Plateau	Depressions / Swamps East	0	
12	Darling Plateau	Depressions / Swamps South East	0	
13	Darling Plateau	Jarrah Valleys North	0	
14	Darling Plateau	Jarrah Valleys East	0	
15	Darling Plateau	Jarrah Valleys South	0	
16	Darling Plateau	Jarrah Valleys South East	0	
17	Darling Plateau	Karri Valleys	0	
18	Darling Plateau	Wandoo Valleys North	1	
19	Darling Plateau	Powder Bark Wandoo Valleys	2	
20	Darling Plateau	Granite Outcrops	0	
21	Various Systems	Esturies / Open Water	0	
22	Collie Plain	Uplands	0	
23	Collie Plain	Depressions / Swamps	0	
24	Dandaragan Plateau	Uplands	2	
25	Dandaragan Plateau	Valleys	2	
26	Swan Coastal Plain	Uplands	0	
27	Swan Coastal Plain	Valleys	0	
28	Southern Plains	Jarrah	0	
29	Southern Plains	Karri	0	
30	Southern Plains	Heath / Sedgeland	0	
31	South Coast Dunes	South Coast Dunes	0	
32	Blackwood Plateau	Jarrah Uplands	0	
33	Blackwood Plateau	Karri Uplands	0	
34	Blackwood Plateau	Depressions / Swamps	0	
35	Blackwood Plateau	Valleys	0	
36	Margaret River Plateau	Jarrah Uplands	0	
37	Margaret River Plateau	Karri Uplands	0	
38	Margaret River Plateau	Jarrah Valleys	0	
39	Margaret River Plateau	Karri Valleys	0	
40	Lewin Naturalist Coast	Jarrah	0	
41	Lewin Naturalist Coast	Marri/Karri	0	
42	Lewin Naturalist Coast	Coast Heath	0	
43	Scott Coastal Plain	Uplands	0	
44	Scott Coastal Plain	Valleys / Swamps	0	
45	Redmond	Uplands	0	
46	Redmond	Valleys	0	
47	Unicup	Jarrah Uplands	0	
48	Unicup	Wandoo Uplands	0	
49	Unicup	Jarrah Valleys	0	
50	Unicup	Wandoo Valleys	0	
51	Unicup	Scrubland	0	
53	Darling Plateau	Wandoo Uplands South	0	
54	Darling Plateau	Wandoo Valleys South	1	

## Appendix 2b

Fauna Habitat ID	FDIS LAND SYSTEM	FDIS LANDSCAPE UNIT	SCORE	Origin
Wheatbelt Stone Gecko				
1	Darling Plateau	Jarrah Uplands North	0	
2	Darling Plateau	Jarrah Uplands East	1	M
3	Darling Plateau	Jarrah Uplands South	0	M
4	Darling Plateau	Jarrah Uplands South East	0	
5	Darling Plateau	Karri Uplands	0	
6	Darling Plateau	Wandoo Uplands North	2	
7	Darling Plateau	Powder Bark Uplands	2	
8	Darling Plateau	Scarp	0	
9	Darling Plateau	Depression / Swamps North	0	
10	Darling Plateau	Depressions / Swamps South	0	
11	Darling Plateau	Depressions / Swamps East	1	
12	Darling Plateau	Depressions / Swamps South East	0	M
13	Darling Plateau	Jarrah Valleys North	0	
14	Darling Plateau	Jarrah Valleys East	1	M
15	Darling Plateau	Jarrah Valleys South	0	
16	Darling Plateau	Jarrah Valleys South East	0	
17	Darling Plateau	Karri Valleys	0	
18	Darling Plateau	Wandoo Valleys North	2	
19	Darling Plateau	Powder Bark Wandoo Valleys	2	M?
20	Darling Plateau	Granite Outcrops	0	
21	Various Systems	Esturies / Open Water	0	M
22	Collie Plain	Uplands	0	
23	Collie Plain	Depressions / Swamps	0	
24	Dandaragan Plateau	Uplands	2	
25	Dandaragan Plateau	Valleys	2	
26	Swan Coastal Plain	Uplands	0	
27	Swan Coastal Plain	Valleys	0	
28	Southern Plains	Jarrah	0	
29	Southern Plains	Karri	0	
30	Southern Plains	Heath / Sedgeland	0	
31	South Coast Dunes	South Coast Dunes	0	
32	Blackwood Plateau	Jarrah Uplands	0	
33	Blackwood Plateau	Karri Uplands	0	
34	Blackwood Plateau	Depressions / Swamps	0	
35	Blackwood Plateau	Valleys	0	
36	Margaret River Plateau	Jarrah Uplands	0	
37	Margaret River Plateau	Karri Uplands	0	
38	Margaret River Plateau	Jarrah Valleys	0	
39	Margaret River Plateau	Karri Valleys	0	
40	Lewin Naturalist Coast	Jarrah	0	
41	Lewin Naturalist Coast	Marri/Karri	0	
42	Lewin Naturalist Coast	Coast Heath	0	
43	Scott Coastal Plain	Uplands	0	
44	Scott Coastal Plain	Valleys / Swamps	0	
45	Redmond	Uplands	0	
46	Redmond	Valleys	0	
47	Unicup	Jarrah Uplands	0	
48	Unicup	Wandoo Uplands	2	
49	Unicup	Jarrah Valleys	1	
50	Unicup	Wandoo Valleys	2	
51	Unicup	Scrubland	2	
53	Darling Plateau	Wandoo Uplands South	0	
54	Darling Plateau	Wandoo Valleys South	0	

## Appendix 2b

Fauna Habitat ID	FDIS LAND SYSTEM	FDIS LANDSCAPE UNIT	SCORE	Origin
Speckled Stone Gecko				
1	Darling Plateau	Jarrah Uplands North	2	
2	Darling Plateau	Jarrah Uplands East	2	
3	Darling Plateau	Jarrah Uplands South	1	
4	Darling Plateau	Jarrah Uplands South East	0	
5	Darling Plateau	Karri Uplands	0	
6	Darling Plateau	Wandoo Uplands North	2	
7	Darling Plateau	Powder Bark Uplands	2	
8	Darling Plateau	Scarp	2	
9	Darling Plateau	Depression / Swamps North	0	
10	Darling Plateau	Depressions / Swamps South	0	
11	Darling Plateau	Depressions / Swamps East	1	
12	Darling Plateau	Depressions / Swamps South East	0	
13	Darling Plateau	Jarrah Valleys North	1	
14	Darling Plateau	Jarrah Valleys East	1	
15	Darling Plateau	Jarrah Valleys South	0	
16	Darling Plateau	Jarrah Valleys South East	0	
17	Darling Plateau	Karri Valleys	0	
18	Darling Plateau	Wandoo Valleys North	2	
19	Darling Plateau	Powder Bark Wandoo Valleys	2	
20	Darling Plateau	Granite Outcrops	3	
21	Various Systems	Esturies / Open Water	0	
22	Collie Plain	Uplands	2	
23	Collie Plain	Depressions / Swamps	0	
24	Dandaragan Plateau	Uplands	2	
25	Dandaragan Plateau	Valleys	2	
26	Swan Coastal Plain	Uplands	0	
27	Swan Coastal Plain	Valleys	0	
28	Southern Plains	Jarrah	0	
29	Southern Plains	Karri	0	
30	Southern Plains	Heath / Sedgeland	0	
31	South Coast Dunes	South Coast Dunes	0	
32	Blackwood Plateau	Jarrah Uplands	0	
33	Blackwood Plateau	Karri Uplands	0	
34	Blackwood Plateau	Depressions / Swamps	0	
35	Blackwood Plateau	Valleys	0	
36	Margaret River Plateau	Jarrah Uplands	0	
37	Margaret River Plateau	Karri Uplands	0	
38	Margaret River Plateau	Jarrah Valleys	0	
39	Margaret River Plateau	Karri Valleys	0	
40	Lewin Naturalist Coast	Jarrah	0	
41	Lewin Naturalist Coast	Marri/Karri	0	
42	Lewin Naturalist Coast	Coast Heath	0	
43	Scott Coastal Plain	Uplands	0	
44	Scott Coastal Plain	Valleys / Swamps	0	
45	Redmond	Uplands	0	
46	Redmond	Valleys	0	
47	Unicup	Jarrah Uplands	0	
48	Unicup	Wandoo Uplands	2	
49	Unicup	Jarrah Valleys	1	
50	Unicup	Wandoo Valleys	1	
51	Unicup	Scrubland	1	
53	Darling Plateau	Wandoo Uplands South	0	
54	Darling Plateau	Wandoo Valleys South	0	

## Appendix 2b

Fauna Habitat ID	FDIS LAND SYSTEM	FDIS LANDSCAPE UNIT	SCORE	Origin
South-Western Spiny-tailed Gecko				
1	Darling Plateau	Jarrah Uplands North	0	
2	Darling Plateau	Jarrah Uplands East	0	
3	Darling Plateau	Jarrah Uplands South	0	M
4	Darling Plateau	Jarrah Uplands South East	0	
5	Darling Plateau	Karri Uplands	0	
6	Darling Plateau	Wandoo Uplands North	0	
7	Darling Plateau	Powder Bark Uplands	0	
8	Darling Plateau	Scarp	0	
9	Darling Plateau	Depression / Swamps North	0	
10	Darling Plateau	Depressions / Swamps South	0	
11	Darling Plateau	Depressions / Swamps East	0	
12	Darling Plateau	Depressions / Swamps South East	0	
13	Darling Plateau	Jarrah Valleys North	0	
14	Darling Plateau	Jarrah Valleys East	0	
15	Darling Plateau	Jarrah Valleys South	0	
16	Darling Plateau	Jarrah Valleys South East	0	
17	Darling Plateau	Karri Valleys	0	
18	Darling Plateau	Wandoo Valleys North	0	
19	Darling Plateau	Powder Bark Wandoo Valleys	0	
20	Darling Plateau	Granite Outcrops	0	
21	Various Systems	Esturies / Open Water	0	M
22	Collie Plain	Uplands	0	
23	Collie Plain	Depressions / Swamps	0	
24	Dandaragan Plateau	Uplands	1	
25	Dandaragan Plateau	Valleys	1	
26	Swan Coastal Plain	Uplands	2	
27	Swan Coastal Plain	Valleys	2	
28	Southern Plains	Jarrah	0	
29	Southern Plains	Karri	0	
30	Southern Plains	Heath / Sedgeland	0	
31	South Coast Dunes	South Coast Dunes	0	
32	Blackwood Plateau	Jarrah Uplands	0	
33	Blackwood Plateau	Karri Uplands	0	
34	Blackwood Plateau	Depressions / Swamps	0	
35	Blackwood Plateau	Valleys	0	
36	Margaret River Plateau	Jarrah Uplands	0	
37	Margaret River Plateau	Karri Uplands	0	
38	Margaret River Plateau	Jarrah Valleys	0	
39	Margaret River Plateau	Karri Valleys	0	
40	Lewin Naturalist Coast	Jarrah	0	
41	Lewin Naturalist Coast	Marri/Karri	0	
42	Lewin Naturalist Coast	Coast Heath	0	
43	Scott Coastal Plain	Uplands	0	
44	Scott Coastal Plain	Valleys / Swamps	0	
45	Redmond	Uplands	0	
46	Redmond	Valleys	0	
47	Unicup	Jarrah Uplands	0	
48	Unicup	Wandoo Uplands	0	
49	Unicup	Jarrah Valleys	0	
50	Unicup	Wandoo Valleys	0	
51	Unicup	Scrubland	0	
53	Darling Plateau	Wandoo Uplands South	0	
54	Darling Plateau	Wandoo Valleys South	0	

## Appendix 2b

Fauna Habitat ID	FDIS LAND SYSTEM	FDIS LANDSCAPE UNIT	SCORE	Origin
Reticulated Velvet Gecko				
1	Darling Plateau	Jarrah Uplands North	0	
2	Darling Plateau	Jarrah Uplands East	1	
3	Darling Plateau	Jarrah Uplands South	0	
4	Darling Plateau	Jarrah Uplands South East	0	
5	Darling Plateau	Karri Uplands	0	
6	Darling Plateau	Wandoo Uplands North	1	
7	Darling Plateau	Powder Bark Uplands	2	
8	Darling Plateau	Scarp	0	
9	Darling Plateau	Depression / Swamps North	0	
10	Darling Plateau	Depressions / Swamps South	0	
11	Darling Plateau	Depressions / Swamps East	0	
12	Darling Plateau	Depressions / Swamps South East	0	
13	Darling Plateau	Jarrah Valleys North	0	
14	Darling Plateau	Jarrah Valleys East	0	
15	Darling Plateau	Jarrah Valleys South	0	
16	Darling Plateau	Jarrah Valleys South East	0	
17	Darling Plateau	Karri Valleys	0	
18	Darling Plateau	Wandoo Valleys North	1	
19	Darling Plateau	Powder Bark Wandoo Valleys	2	
20	Darling Plateau	Granite Outcrops	1	
21	Various Systems	Esturies / Open Water	0	
22	Collie Plain	Uplands	0	
23	Collie Plain	Depressions / Swamps	0	
24	Dandaragan Plateau	Uplands	1	
25	Dandaragan Plateau	Valleys	1	
26	Swan Coastal Plain	Uplands	0	
27	Swan Coastal Plain	Valleys	0	
28	Southern Plains	Jarrah	0	
29	Southern Plains	Karri	0	
30	Southern Plains	Heath / Sedgeland	0	
31	South Coast Dunes	South Coast Dunes	0	
32	Blackwood Plateau	Jarrah Uplands	0	
33	Blackwood Plateau	Karri Uplands	0	
34	Blackwood Plateau	Depressions / Swamps	0	
35	Blackwood Plateau	Valleys	0	
36	Margaret River Plateau	Jarrah Uplands	0	
37	Margaret River Plateau	Karri Uplands	0	
38	Margaret River Plateau	Jarrah Valleys	0	
39	Margaret River Plateau	Karri Valleys	0	
40	Lewin Naturalist Coast	Jarrah	0	
41	Lewin Naturalist Coast	Marri/Karri	0	
42	Lewin Naturalist Coast	Coast Heath	0	
43	Scott Coastal Plain	Uplands	0	
44	Scott Coastal Plain	Valleys / Swamps	0	
45	Redmond	Uplands	0	
46	Redmond	Valleys	0	
47	Unicup	Jarrah Uplands	0	
48	Unicup	Wandoo Uplands	0	
49	Unicup	Jarrah Valleys	0	
50	Unicup	Wandoo Valleys	0	
51	Unicup	Scrubland	0	
53	Darling Plateau	Wandoo Uplands South	0	
54	Darling Plateau	Wandoo Valleys South	0	

## Appendix 2b

Fauna Habitat ID	FDIS LAND SYSTEM	FDIS LANDSCAPE UNIT	SCORE	Origin
Marbled Gecko				
1	Darling Plateau	Jarrah Uplands North	3	
2	Darling Plateau	Jarrah Uplands East	3	
3	Darling Plateau	Jarrah Uplands South	3	M
4	Darling Plateau	Jarrah Uplands South East	3	
5	Darling Plateau	Karri Uplands	3	
6	Darling Plateau	Wandoo Uplands North	3	
7	Darling Plateau	Powder Bark Uplands	3	
8	Darling Plateau	Scarp	3	
9	Darling Plateau	Depression / Swamps North	3	
10	Darling Plateau	Depressions / Swamps South	2	
11	Darling Plateau	Depressions / Swamps East	2	
12	Darling Plateau	Depressions / Swamps South East	2	
13	Darling Plateau	Jarrah Valleys North	3	
14	Darling Plateau	Jarrah Valleys East	3	M
15	Darling Plateau	Jarrah Valleys South	3	
16	Darling Plateau	Jarrah Valleys South East	3	
17	Darling Plateau	Karri Valleys	3	
18	Darling Plateau	Wandoo Valleys North	3	
19	Darling Plateau	Powder Bark Wandoo Valleys	3	M?
20	Darling Plateau	Granite Outcrops	3	
21	Various Systems	Esturies / Open Water	0	M
22	Collie Plain	Uplands	3	
23	Collie Plain	Depressions / Swamps	3	
24	Dandaragan Plateau	Uplands	3	
25	Dandaragan Plateau	Valleys	3	
26	Swan Coastal Plain	Uplands	3	
27	Swan Coastal Plain	Valleys	3	
28	Southern Plains	Jarrah	3	
29	Southern Plains	Karri	3	
30	Southern Plains	Heath / Sedgeland	2	
31	South Coast Dunes	South Coast Dunes	3	
32	Blackwood Plateau	Jarrah Uplands	3	
33	Blackwood Plateau	Karri Uplands	3	
34	Blackwood Plateau	Depressions / Swamps	2	
35	Blackwood Plateau	Valleys	3	
36	Margaret River Plateau	Jarrah Uplands	3	
37	Margaret River Plateau	Karri Uplands	3	
38	Margaret River Plateau	Jarrah Valleys	3	
39	Margaret River Plateau	Karri Valleys	3	
40	Lewin Naturalist Coast	Jarrah	3	
41	Lewin Naturalist Coast	Marri/Karri	3	
42	Lewin Naturalist Coast	Coast Heath	3	
43	Scott Coastal Plain	Uplands	3	
44	Scott Coastal Plain	Valleys / Swamps	3	
45	Redmond	Uplands	3	
46	Redmond	Valleys	3	
47	Unicup	Jarrah Uplands	3	
48	Unicup	Wandoo Uplands	3	
49	Unicup	Jarrah Valleys	3	
50	Unicup	Wandoo Valleys	3	
51	Unicup	Scrubland	3	
53	Darling Plateau	Wandoo Uplands South	3	
54	Darling Plateau	Wandoo Valleys South	3	



## Appendix 2b

Fauna Habitat ID	FDIS LAND SYSTEM	FDIS LANDSCAPE UNIT	SCORE	Origin
Barking Gecko				
1	Darling Plateau	Jarrah Uplands North	3	
2	Darling Plateau	Jarrah Uplands East	3	
3	Darling Plateau	Jarrah Uplands South	0	
4	Darling Plateau	Jarrah Uplands South East	1	
5	Darling Plateau	Karri Uplands	0	
6	Darling Plateau	Wandoo Uplands North	3	
7	Darling Plateau	Powder Bark Uplands	3	
8	Darling Plateau	Scarp	3	
9	Darling Plateau	Depression / Swamps North	2	
10	Darling Plateau	Depressions / Swamps South	0	
11	Darling Plateau	Depressions / Swamps East	1	
12	Darling Plateau	Depressions / Swamps South East	0	
13	Darling Plateau	Jarrah Valleys North	3	
14	Darling Plateau	Jarrah Valleys East	3	
15	Darling Plateau	Jarrah Valleys South	0	
16	Darling Plateau	Jarrah Valleys South East	1	
17	Darling Plateau	Karri Valleys	0	
18	Darling Plateau	Wandoo Valleys North	3	
19	Darling Plateau	Powder Bark Wandoo Valleys	3	
20	Darling Plateau	Granite Outcrops	3	
21	Various Systems	Esturies / Open Water	0	
22	Collie Plain	Uplands	3	
23	Collie Plain	Depressions / Swamps	3	
24	Dandaragan Plateau	Uplands	3	
25	Dandaragan Plateau	Valleys	3	
26	Swan Coastal Plain	Uplands	3	
27	Swan Coastal Plain	Valleys	3	
28	Southern Plains	Jarrah	0	
29	Southern Plains	Karri	0	
30	Southern Plains	Heath / Sedgeland	0	
31	South Coast Dunes	South Coast Dunes	0	
32	Blackwood Plateau	Jarrah Uplands	0	
33	Blackwood Plateau	Karri Uplands	0	
34	Blackwood Plateau	Depressions / Swamps	0	
35	Blackwood Plateau	Valleys	0	
36	Margaret River Plateau	Jarrah Uplands	0	
37	Margaret River Plateau	Karri Uplands	0	
38	Margaret River Plateau	Jarrah Valleys	0	
39	Margaret River Plateau	Karri Valleys	0	
40	Lewin Naturalist Coast	Jarrah	0	
41	Lewin Naturalist Coast	Marri/Karri	0	
42	Lewin Naturalist Coast	Coast Heath	0	
43	Scott Coastal Plain	Uplands	0	
44	Scott Coastal Plain	Valleys / Swamps	0	
45	Redmond	Uplands	0	
46	Redmond	Valleys	0	
47	Unicup	Jarrah Uplands	0	
48	Unicup	Wandoo Uplands	0	
49	Unicup	Jarrah Valleys	0	
50	Unicup	Wandoo Valleys	0	
51	Unicup	Scrubland	0	
53	Darling Plateau	Wandoo Uplands South	0	
54	Darling Plateau	Wandoo Valleys South	0	

## Appendix 2b

Fauna Habitat ID	FDIS LAND SYSTEM	FDIS LANDSCAPE UNIT	SCORE	Origin
Fine-faced Gecko				
1	Darling Plateau	Jarrah Uplands North	0	
2	Darling Plateau	Jarrah Uplands East	0	
3	Darling Plateau	Jarrah Uplands South	0	
4	Darling Plateau	Jarrah Uplands South East	0	
5	Darling Plateau	Karri Uplands	0	
6	Darling Plateau	Wandoo Uplands North	0	
7	Darling Plateau	Powder Bark Uplands	1	
8	Darling Plateau	Scarp	0	
9	Darling Plateau	Depression / Swamps North	0	
10	Darling Plateau	Depressions / Swamps South	0	
11	Darling Plateau	Depressions / Swamps East	0	
12	Darling Plateau	Depressions / Swamps South East	0	M
13	Darling Plateau	Jarrah Valleys North	0	
14	Darling Plateau	Jarrah Valleys East	0	M
15	Darling Plateau	Jarrah Valleys South	0	
16	Darling Plateau	Jarrah Valleys South East	0	
17	Darling Plateau	Karri Valleys	0	
18	Darling Plateau	Wandoo Valleys North	0	
19	Darling Plateau	Powder Bark Wandoo Valleys	1	M?
20	Darling Plateau	Granite Outcrops	0	
21	Various Systems	Esturies / Open Water	0	
22	Collie Plain	Uplands	0	
23	Collie Plain	Depressions / Swamps	0	
24	Dandaragan Plateau	Uplands	0	
25	Dandaragan Plateau	Valleys	0	
26	Swan Coastal Plain	Uplands	0	
27	Swan Coastal Plain	Valleys	0	
28	Southern Plains	Jarrah	0	
29	Southern Plains	Karri	0	
30	Southern Plains	Heath / Sedgeland	0	
31	South Coast Dunes	South Coast Dunes	0	
32	Blackwood Plateau	Jarrah Uplands	0	
33	Blackwood Plateau	Karri Uplands	0	
34	Blackwood Plateau	Depressions / Swamps	0	
35	Blackwood Plateau	Valleys	0	
36	Margaret River Plateau	Jarrah Uplands	0	
37	Margaret River Plateau	Karri Uplands	0	
38	Margaret River Plateau	Jarrah Valleys	0	
39	Margaret River Plateau	Karri Valleys	0	
40	Lewin Naturalist Coast	Jarrah	0	
41	Lewin Naturalist Coast	Marri/Karri	0	
42	Lewin Naturalist Coast	Coast Heath	0	
43	Scott Coastal Plain	Uplands	0	M
44	Scott Coastal Plain	Valleys / Swamps	0	
45	Redmond	Uplands	0	
46	Redmond	Valleys	0	
47	Unicup	Jarrah Uplands	0	
48	Unicup	Wandoo Uplands	0	
49	Unicup	Jarrah Valleys	0	
50	Unicup	Wandoo Valleys	0	
51	Unicup	Scrubland	0	
53	Darling Plateau	Wandoo Uplands South	0	
54	Darling Plateau	Wandoo Valleys South	0	

## Appendix 2b

Fauna Habitat ID	FDIS LAND SYSTEM	FDIS LANDSCAPE UNIT	SCORE	Origin
Western Granite Worm-Lizard				
1	Darling Plateau	Jarrah Uplands North	2	
2	Darling Plateau	Jarrah Uplands East	2	
3	Darling Plateau	Jarrah Uplands South	2	
4	Darling Plateau	Jarrah Uplands South East	2	
5	Darling Plateau	Karri Uplands	0	
6	Darling Plateau	Wandoo Uplands North	2	
7	Darling Plateau	Powder Bark Uplands	2	
8	Darling Plateau	Scarp	2	
9	Darling Plateau	Depression / Swamps North	2	
10	Darling Plateau	Depressions / Swamps South	0	
11	Darling Plateau	Depressions / Swamps East	1	
12	Darling Plateau	Depressions / Swamps South East	0	
13	Darling Plateau	Jarrah Valleys North	2	
14	Darling Plateau	Jarrah Valleys East	2	
15	Darling Plateau	Jarrah Valleys South	1	
16	Darling Plateau	Jarrah Valleys South East	2	
17	Darling Plateau	Karri Valleys	0	
18	Darling Plateau	Wandoo Valleys North	2	
19	Darling Plateau	Powder Bark Wandoo Valleys	2	
20	Darling Plateau	Granite Outcrops	2	
21	Various Systems	Esturies / Open Water	0	
22	Collie Plain	Uplands	2	
23	Collie Plain	Depressions / Swamps	1	
24	Dandaragan Plateau	Uplands	2	
25	Dandaragan Plateau	Valleys	2	
26	Swan Coastal Plain	Uplands	0	
27	Swan Coastal Plain	Valleys	0	
28	Southern Plains	Jarrah	0	
29	Southern Plains	Karri	0	
30	Southern Plains	Heath / Sedgeland	0	
31	South Coast Dunes	South Coast Dunes	0	
32	Blackwood Plateau	Jarrah Uplands	2	
33	Blackwood Plateau	Karri Uplands	0	
34	Blackwood Plateau	Depressions / Swamps	1	
35	Blackwood Plateau	Valleys	1	
36	Margaret River Plateau	Jarrah Uplands	2	
37	Margaret River Plateau	Karri Uplands	0	
38	Margaret River Plateau	Jarrah Valleys	1	
39	Margaret River Plateau	Karri Valleys	0	
40	Lewin Naturalist Coast	Jarrah	2	
41	Lewin Naturalist Coast	Marri/Karri	0	
42	Lewin Naturalist Coast	Coast Heath	1	
43	Scott Coastal Plain	Uplands	2	
44	Scott Coastal Plain	Valleys / Swamps	0	
45	Redmond	Uplands	2	
46	Redmond	Valleys	2	
47	Unicup	Jarrah Uplands	2	
48	Unicup	Wandoo Uplands	2	
49	Unicup	Jarrah Valleys	2	
50	Unicup	Wandoo Valleys	2	
51	Unicup	Scrubland	2	
53	Darling Plateau	Wandoo Uplands South	2	
54	Darling Plateau	Wandoo Valleys South	2	

## Appendix 2b

Fauna Habitat ID	FDIS LAND SYSTEM	FDIS LANDSCAPE UNIT	SCORE	Origin
Sedgeland's Worm-Lizard				
1	Darling Plateau	Jarrah Uplands North	0	
2	Darling Plateau	Jarrah Uplands East	0	
3	Darling Plateau	Jarrah Uplands South	0	
4	Darling Plateau	Jarrah Uplands South East	0	
5	Darling Plateau	Karri Uplands	0	
6	Darling Plateau	Wandoo Uplands North	2	
7	Darling Plateau	Powder Bark Uplands	2	
8	Darling Plateau	Scarp	0	
9	Darling Plateau	Depression / Swamps North	2	
10	Darling Plateau	Depressions / Swamps South	0	
11	Darling Plateau	Depressions / Swamps East	1	
12	Darling Plateau	Depressions / Swamps South East	0	
13	Darling Plateau	Jarrah Valleys North	1	
14	Darling Plateau	Jarrah Valleys East	1	
15	Darling Plateau	Jarrah Valleys South	0	
16	Darling Plateau	Jarrah Valleys South East	0	
17	Darling Plateau	Karri Valleys	0	
18	Darling Plateau	Wandoo Valleys North	1	
19	Darling Plateau	Powder Bark Wandoo Valleys	2	
20	Darling Plateau	Granite Outcrops	0	
21	Various Systems	Esturies / Open Water	0	
22	Collie Plain	Uplands	0	
23	Collie Plain	Depressions / Swamps	1	
24	Dandaragan Plateau	Uplands	2	
25	Dandaragan Plateau	Valleys	2	
26	Swan Coastal Plain	Uplands	2	
27	Swan Coastal Plain	Valleys	2	
28	Southern Plains	Jarrah	0	
29	Southern Plains	Karri	0	
30	Southern Plains	Heath / Sedgeland	0	
31	South Coast Dunes	South Coast Dunes	0	
32	Blackwood Plateau	Jarrah Uplands	0	
33	Blackwood Plateau	Karri Uplands	0	
34	Blackwood Plateau	Depressions / Swamps	0	
35	Blackwood Plateau	Valleys	0	
36	Margaret River Plateau	Jarrah Uplands	0	
37	Margaret River Plateau	Karri Uplands	0	
38	Margaret River Plateau	Jarrah Valleys	0	
39	Margaret River Plateau	Karri Valleys	0	
40	Lewin Naturalist Coast	Jarrah	0	
41	Lewin Naturalist Coast	Marri/Karri	0	
42	Lewin Naturalist Coast	Coast Heath	0	
43	Scott Coastal Plain	Uplands	0	
44	Scott Coastal Plain	Valleys / Swamps	0	
45	Redmond	Uplands	0	
46	Redmond	Valleys	0	
47	Unicup	Jarrah Uplands	0	
48	Unicup	Wandoo Uplands	0	
49	Unicup	Jarrah Valleys	0	
50	Unicup	Wandoo Valleys	0	
51	Unicup	Scrubland	0	
53	Darling Plateau	Wandoo Uplands South	2	
54	Darling Plateau	Wandoo Valleys South	1	

## Appendix 2b

Fauna Habitat ID	FDIS LAND SYSTEM	FDIS LANDSCAPE UNIT	SCORE	Origin
Fraser's Scale-Footed Lizard				
1	Darling Plateau	Jarrah Uplands North	1	
2	Darling Plateau	Jarrah Uplands East	2	
3	Darling Plateau	Jarrah Uplands South	0	
4	Darling Plateau	Jarrah Uplands South East	2	
5	Darling Plateau	Karri Uplands	0	
6	Darling Plateau	Wandoo Uplands North	2	
7	Darling Plateau	Powder Bark Uplands	2	
8	Darling Plateau	Scarp	1	
9	Darling Plateau	Depression / Swamps North	1	
10	Darling Plateau	Depressions / Swamps South	0	
11	Darling Plateau	Depressions / Swamps East	1	
12	Darling Plateau	Depressions / Swamps South East	0	
13	Darling Plateau	Jarrah Valleys North	1	
14	Darling Plateau	Jarrah Valleys East	2	
15	Darling Plateau	Jarrah Valleys South	0	
16	Darling Plateau	Jarrah Valleys South East	2	
17	Darling Plateau	Karri Valleys	0	
18	Darling Plateau	Wandoo Valleys North	2	
19	Darling Plateau	Powder Bark Wandoo Valleys	2	
20	Darling Plateau	Granite Outcrops	0	
21	Various Systems	Esturies / Open Water	0	
22	Collie Plain	Uplands	0	
23	Collie Plain	Depressions / Swamps	0	
24	Dandaragan Plateau	Uplands	2	
25	Dandaragan Plateau	Valleys	2	
26	Swan Coastal Plain	Uplands	2	
27	Swan Coastal Plain	Valleys	2	
28	Southern Plains	Jarrah	0	
29	Southern Plains	Karri	0	
30	Southern Plains	Heath / Sedgeland	0	
31	South Coast Dunes	South Coast Dunes	1	
32	Blackwood Plateau	Jarrah Uplands	0	
33	Blackwood Plateau	Karri Uplands	0	
34	Blackwood Plateau	Depressions / Swamps	0	
35	Blackwood Plateau	Valleys	0	
36	Margaret River Plateau	Jarrah Uplands	0	
37	Margaret River Plateau	Karri Uplands	0	
38	Margaret River Plateau	Jarrah Valleys	0	
39	Margaret River Plateau	Karri Valleys	0	
40	Lewin Naturalist Coast	Jarrah	0	
41	Lewin Naturalist Coast	Marri/Karri	0	
42	Lewin Naturalist Coast	Coast Heath	0	
43	Scott Coastal Plain	Uplands	0	
44	Scott Coastal Plain	Valleys / Swamps	0	
45	Redmond	Uplands	1	
46	Redmond	Valleys	0	
47	Unicup	Jarrah Uplands	1	
48	Unicup	Wandoo Uplands	2	
49	Unicup	Jarrah Valleys	1	
50	Unicup	Wandoo Valleys	2	
51	Unicup	Scrubland	2	
53	Darling Plateau	Wandoo Uplands South	2	
54	Darling Plateau	Wandoo Valleys South	2	

## Appendix 2b

Fauna Habitat ID	FDIS LAND SYSTEM	FDIS LANDSCAPE UNIT	SCORE	Origin
Burton's Snake-Lizard				
1	Darling Plateau	Jarrah Uplands North	2	
2	Darling Plateau	Jarrah Uplands East	2	
3	Darling Plateau	Jarrah Uplands South	0	
4	Darling Plateau	Jarrah Uplands South East	0	
5	Darling Plateau	Karri Uplands	0	
6	Darling Plateau	Wandoo Uplands North	2	
7	Darling Plateau	Powder Bark Uplands	2	
8	Darling Plateau	Scarp	2	
9	Darling Plateau	Depression / Swamps North	2	
10	Darling Plateau	Depressions / Swamps South	0	
11	Darling Plateau	Depressions / Swamps East	2	
12	Darling Plateau	Depressions / Swamps South East	0	
13	Darling Plateau	Jarrah Valleys North	2	
14	Darling Plateau	Jarrah Valleys East	2	M
15	Darling Plateau	Jarrah Valleys South	0	
16	Darling Plateau	Jarrah Valleys South East	0	
17	Darling Plateau	Karri Valleys	0	
18	Darling Plateau	Wandoo Valleys North	2	
19	Darling Plateau	Powder Bark Wandoo Valleys	2	
20	Darling Plateau	Granite Outcrops	1	
21	Various Systems	Esturies / Open Water	0	
22	Collie Plain	Uplands	2	
23	Collie Plain	Depressions / Swamps	2	
24	Dandaragan Plateau	Uplands	2	
25	Dandaragan Plateau	Valleys	2	
26	Swan Coastal Plain	Uplands	2	
27	Swan Coastal Plain	Valleys	2	
28	Southern Plains	Jarrah	0	
29	Southern Plains	Karri	0	
30	Southern Plains	Heath / Sedgeland	0	
31	South Coast Dunes	South Coast Dunes	0	
32	Blackwood Plateau	Jarrah Uplands	0	
33	Blackwood Plateau	Karri Uplands	0	
34	Blackwood Plateau	Depressions / Swamps	0	
35	Blackwood Plateau	Valleys	0	
36	Margaret River Plateau	Jarrah Uplands	0	
37	Margaret River Plateau	Karri Uplands	0	
38	Margaret River Plateau	Jarrah Valleys	0	
39	Margaret River Plateau	Karri Valleys	0	
40	Lewin Naturalist Coast	Jarrah	0	
41	Lewin Naturalist Coast	Marri/Karri	0	
42	Lewin Naturalist Coast	Coast Heath	0	
43	Scott Coastal Plain	Uplands	0	
44	Scott Coastal Plain	Valleys / Swamps	0	
45	Redmond	Uplands	0	
46	Redmond	Valleys	0	
47	Unicup	Jarrah Uplands	0	
48	Unicup	Wandoo Uplands	0	
49	Unicup	Jarrah Valleys	0	
50	Unicup	Wandoo Valleys	0	
51	Unicup	Scrubland	0	
53	Darling Plateau	Wandoo Uplands South	2	
54	Darling Plateau	Wandoo Valleys South	2	

## Appendix 2b

Fauna Habitat ID	FDIS LAND SYSTEM	FDIS LANDSCAPE UNIT	SCORE	Origin
Common Scaly-Foot				
1	Darling Plateau	Jarrah Uplands North	0	
2	Darling Plateau	Jarrah Uplands East	0	
3	Darling Plateau	Jarrah Uplands South	0	
4	Darling Plateau	Jarrah Uplands South East	0	
5	Darling Plateau	Karri Uplands	0	
6	Darling Plateau	Wandoo Uplands North	0	
7	Darling Plateau	Powder Bark Uplands	0	
8	Darling Plateau	Scarp	0	
9	Darling Plateau	Depression / Swamps North	0	
10	Darling Plateau	Depressions / Swamps South	0	
11	Darling Plateau	Depressions / Swamps East	0	
12	Darling Plateau	Depressions / Swamps South East	0	
13	Darling Plateau	Jarrah Valleys North	0	
14	Darling Plateau	Jarrah Valleys East	0	
15	Darling Plateau	Jarrah Valleys South	0	
16	Darling Plateau	Jarrah Valleys South East	0	
17	Darling Plateau	Karri Valleys	0	
18	Darling Plateau	Wandoo Valleys North	0	
19	Darling Plateau	Powder Bark Wandoo Valleys	2	
20	Darling Plateau	Granite Outcrops	0	
21	Various Systems	Esturies / Open Water	0	
22	Collie Plain	Uplands	0	
23	Collie Plain	Depressions / Swamps	0	
24	Dandaragan Plateau	Uplands	2	
25	Dandaragan Plateau	Valleys	2	
26	Swan Coastal Plain	Uplands	2	
27	Swan Coastal Plain	Valleys	2	
28	Southern Plains	Jarrah	0	
29	Southern Plains	Karri	0	
30	Southern Plains	Heath / Sedgeland	0	
31	South Coast Dunes	South Coast Dunes	2	
32	Blackwood Plateau	Jarrah Uplands	0	
33	Blackwood Plateau	Karri Uplands	0	
34	Blackwood Plateau	Depressions / Swamps	0	
35	Blackwood Plateau	Valleys	0	
36	Margaret River Plateau	Jarrah Uplands	0	
37	Margaret River Plateau	Karri Uplands	0	
38	Margaret River Plateau	Jarrah Valleys	0	
39	Margaret River Plateau	Karri Valleys	0	
40	Lewin Naturalist Coast	Jarrah	0	
41	Lewin Naturalist Coast	Marri/Karri	0	
42	Lewin Naturalist Coast	Coast Heath	3	
43	Scott Coastal Plain	Uplands	0	
44	Scott Coastal Plain	Valleys / Swamps	0	
45	Redmond	Uplands	1	
46	Redmond	Valleys	0	
47	Unicup	Jarrah Uplands	0	
48	Unicup	Wandoo Uplands	0	
49	Unicup	Jarrah Valleys	1	
50	Unicup	Wandoo Valleys	0	
51	Unicup	Scrubland	0	
53	Darling Plateau	Wandoo Uplands South	0	
54	Darling Plateau	Wandoo Valleys South	0	

## Appendix 2b

Fauna Habitat ID	FDIS LAND SYSTEM	FDIS LANDSCAPE UNIT	SCORE	Origin
Ornate Dragon				
1	Darling Plateau	Jarrah Uplands North	0	
2	Darling Plateau	Jarrah Uplands East	0	
3	Darling Plateau	Jarrah Uplands South	0	
4	Darling Plateau	Jarrah Uplands South East	1	
5	Darling Plateau	Karri Uplands	0	
6	Darling Plateau	Wandoo Uplands North	1	
7	Darling Plateau	Powder Bark Uplands	2	
8	Darling Plateau	Scarp	0	
9	Darling Plateau	Depression / Swamps North	0	
10	Darling Plateau	Depressions / Swamps South	0	
11	Darling Plateau	Depressions / Swamps East	0	
12	Darling Plateau	Depressions / Swamps South East	0	
13	Darling Plateau	Jarrah Valleys North	1	
14	Darling Plateau	Jarrah Valleys East	0	
15	Darling Plateau	Jarrah Valleys South	0	
16	Darling Plateau	Jarrah Valleys South East	1	
17	Darling Plateau	Karri Valleys	0	
18	Darling Plateau	Wandoo Valleys North	1	
19	Darling Plateau	Powder Bark Wandoo Valleys	2	
20	Darling Plateau	Granite Outcrops	3	
21	Various Systems	Esturies / Open Water	0	
22	Collie Plain	Uplands	0	
23	Collie Plain	Depressions / Swamps	0	
24	Dandaragan Plateau	Uplands	3	
25	Dandaragan Plateau	Valleys	2	
26	Swan Coastal Plain	Uplands	0	
27	Swan Coastal Plain	Valleys	0	
28	Southern Plains	Jarrah	0	
29	Southern Plains	Karri	0	
30	Southern Plains	Heath / Sedgeland	0	
31	South Coast Dunes	South Coast Dunes	0	
32	Blackwood Plateau	Jarrah Uplands	0	
33	Blackwood Plateau	Karri Uplands	0	
34	Blackwood Plateau	Depressions / Swamps	0	
35	Blackwood Plateau	Valleys	0	
36	Margaret River Plateau	Jarrah Uplands	0	
37	Margaret River Plateau	Karri Uplands	0	
38	Margaret River Plateau	Jarrah Valleys	0	
39	Margaret River Plateau	Karri Valleys	0	
40	Lewin Naturalist Coast	Jarrah	0	
41	Lewin Naturalist Coast	Marri/Karri	0	
42	Lewin Naturalist Coast	Coast Heath	0	
43	Scott Coastal Plain	Uplands	0	
44	Scott Coastal Plain	Valleys / Swamps	0	
45	Redmond	Uplands	0	
46	Redmond	Valleys	0	
47	Unicup	Jarrah Uplands	0	
48	Unicup	Wandoo Uplands	0	
49	Unicup	Jarrah Valleys	0	
50	Unicup	Wandoo Valleys	0	
51	Unicup	Scrubland	0	
53	Darling Plateau	Wandoo Uplands South	0	
54	Darling Plateau	Wandoo Valleys South	0	



## Appendix 2b

Fauna Habitat ID	FDIS LAND SYSTEM	FDIS LANDSCAPE UNIT	SCORE	Origin
Western Bearded Dragon				
1	Darling Plateau	Jarrah Uplands North	2	
2	Darling Plateau	Jarrah Uplands East	3	
3	Darling Plateau	Jarrah Uplands South	0	
4	Darling Plateau	Jarrah Uplands South East	0	
5	Darling Plateau	Karri Uplands	0	
6	Darling Plateau	Wandoo Uplands North	3	
7	Darling Plateau	Powder Bark Uplands	3	
8	Darling Plateau	Scarp	2	
9	Darling Plateau	Depression / Swamps North	0	
10	Darling Plateau	Depressions / Swamps South	0	
11	Darling Plateau	Depressions / Swamps East	0	
12	Darling Plateau	Depressions / Swamps South East	0	
13	Darling Plateau	Jarrah Valleys North	0	
14	Darling Plateau	Jarrah Valleys East	2	
15	Darling Plateau	Jarrah Valleys South	0	
16	Darling Plateau	Jarrah Valleys South East	0	
17	Darling Plateau	Karri Valleys	0	
18	Darling Plateau	Wandoo Valleys North	2	
19	Darling Plateau	Powder Bark Wandoo Valleys	2	
20	Darling Plateau	Granite Outcrops	3	
21	Various Systems	Esturies / Open Water	0	
22	Collie Plain	Uplands	0	
23	Collie Plain	Depressions / Swamps	0	
24	Dandaragan Plateau	Uplands	3	
25	Dandaragan Plateau	Valleys	3	
26	Swan Coastal Plain	Uplands	0	
27	Swan Coastal Plain	Valleys	0	
28	Southern Plains	Jarrah	0	
29	Southern Plains	Karri	0	
30	Southern Plains	Heath / Sedgeland	0	
31	South Coast Dunes	South Coast Dunes	0	
32	Blackwood Plateau	Jarrah Uplands	0	
33	Blackwood Plateau	Karri Uplands	0	
34	Blackwood Plateau	Depressions / Swamps	0	
35	Blackwood Plateau	Valleys	0	
36	Margaret River Plateau	Jarrah Uplands	0	
37	Margaret River Plateau	Karri Uplands	0	
38	Margaret River Plateau	Jarrah Valleys	0	
39	Margaret River Plateau	Karri Valleys	0	
40	Lewin Naturalist Coast	Jarrah	0	
41	Lewin Naturalist Coast	Marri/Karri	0	
42	Lewin Naturalist Coast	Coast Heath	0	
43	Scott Coastal Plain	Uplands	0	
44	Scott Coastal Plain	Valleys / Swamps	0	
45	Redmond	Uplands	0	
46	Redmond	Valleys	0	
47	Unicup	Jarrah Uplands	0	
48	Unicup	Wandoo Uplands	0	
49	Unicup	Jarrah Valleys	0	
50	Unicup	Wandoo Valleys	0	
51	Unicup	Scrubland	0	
53	Darling Plateau	Wandoo Uplands South	0	
54	Darling Plateau	Wandoo Valleys South	0	

## Appendix 2b

Fauna Habitat ID	FDIS LAND SYSTEM	FDIS LANDSCAPE UNIT	SCORE	Origin
Sand Monitor				
1	Darling Plateau	Jarrah Uplands North	2	
2	Darling Plateau	Jarrah Uplands East	3	
3	Darling Plateau	Jarrah Uplands South	0	
4	Darling Plateau	Jarrah Uplands South East	0	
5	Darling Plateau	Karri Uplands	0	
6	Darling Plateau	Wandoo Uplands North	2	
7	Darling Plateau	Powder Bark Uplands	3	
8	Darling Plateau	Scarp	2	
9	Darling Plateau	Depression / Swamps North	2	
10	Darling Plateau	Depressions / Swamps South	0	
11	Darling Plateau	Depressions / Swamps East	2	
12	Darling Plateau	Depressions / Swamps South East	0	
13	Darling Plateau	Jarrah Valleys North	2	
14	Darling Plateau	Jarrah Valleys East	3	
15	Darling Plateau	Jarrah Valleys South	0	
16	Darling Plateau	Jarrah Valleys South East	0	
17	Darling Plateau	Karri Valleys	0	
18	Darling Plateau	Wandoo Valleys North	2	
19	Darling Plateau	Powder Bark Wandoo Valleys	3	
20	Darling Plateau	Granite Outcrops	0	
21	Various Systems	Esturies / Open Water	0	
22	Collie Plain	Uplands	1	
23	Collie Plain	Depressions / Swamps	0	
24	Dandaragan Plateau	Uplands	3	
25	Dandaragan Plateau	Valleys	3	
26	Swan Coastal Plain	Uplands	3	
27	Swan Coastal Plain	Valleys	3	
28	Southern Plains	Jarrah	0	
29	Southern Plains	Karri	0	
30	Southern Plains	Heath / Sedgeland	0	
31	South Coast Dunes	South Coast Dunes	0	
32	Blackwood Plateau	Jarrah Uplands	0	
33	Blackwood Plateau	Karri Uplands	0	
34	Blackwood Plateau	Depressions / Swamps	0	
35	Blackwood Plateau	Valleys	0	
36	Margaret River Plateau	Jarrah Uplands	0	
37	Margaret River Plateau	Karri Uplands	0	
38	Margaret River Plateau	Jarrah Valleys	0	
39	Margaret River Plateau	Karri Valleys	0	
40	Lewin Naturalist Coast	Jarrah	0	
41	Lewin Naturalist Coast	Marri/Karri	0	
42	Lewin Naturalist Coast	Coast Heath	0	
43	Scott Coastal Plain	Uplands	0	
44	Scott Coastal Plain	Valleys / Swamps	0	
45	Redmond	Uplands	0	
46	Redmond	Valleys	0	
47	Unicup	Jarrah Uplands	0	
48	Unicup	Wandoo Uplands	0	
49	Unicup	Jarrah Valleys	0	
50	Unicup	Wandoo Valleys	0	
51	Unicup	Scrubland	0	
53	Darling Plateau	Wandoo Uplands South	0	
54	Darling Plateau	Wandoo Valleys South	0	

## Appendix 2b

Fauna Habitat ID	FDIS LAND SYSTEM	FDIS LANDSCAPE UNIT	SCORE	Origin
Heath Monitor				
1	Darling Plateau	Jarrah Uplands North	3	
2	Darling Plateau	Jarrah Uplands East	3	
3	Darling Plateau	Jarrah Uplands South	3	
4	Darling Plateau	Jarrah Uplands South East	3	
5	Darling Plateau	Karri Uplands	2	
6	Darling Plateau	Wandoo Uplands North	3	
7	Darling Plateau	Powder Bark Uplands	2	
8	Darling Plateau	Scarp	3	
9	Darling Plateau	Depression / Swamps North	3	
10	Darling Plateau	Depressions / Swamps South	3	
11	Darling Plateau	Depressions / Swamps East	3	
12	Darling Plateau	Depressions / Swamps South East	3	
13	Darling Plateau	Jarrah Valleys North	3	
14	Darling Plateau	Jarrah Valleys East	3	
15	Darling Plateau	Jarrah Valleys South	3	
16	Darling Plateau	Jarrah Valleys South East	3	
17	Darling Plateau	Karri Valleys	2	
18	Darling Plateau	Wandoo Valleys North	3	
19	Darling Plateau	Powder Bark Wandoo Valleys	2	
20	Darling Plateau	Granite Outcrops	3	
21	Various Systems	Esturies / Open Water	0	
22	Collie Plain	Uplands	3	
23	Collie Plain	Depressions / Swamps	3	
24	Dandaragan Plateau	Uplands	2	
25	Dandaragan Plateau	Valleys	2	
26	Swan Coastal Plain	Uplands	3	
27	Swan Coastal Plain	Valleys	3	
28	Southern Plains	Jarrah	3	
29	Southern Plains	Karri	3	
30	Southern Plains	Heath / Sedgeland	3	
31	South Coast Dunes	South Coast Dunes	3	
32	Blackwood Plateau	Jarrah Uplands	3	
33	Blackwood Plateau	Karri Uplands	3	
34	Blackwood Plateau	Depressions / Swamps	3	
35	Blackwood Plateau	Valleys	3	
36	Margaret River Plateau	Jarrah Uplands	3	
37	Margaret River Plateau	Karri Uplands	3	
38	Margaret River Plateau	Jarrah Valleys	3	
39	Margaret River Plateau	Karri Valleys	3	
40	Lewin Naturalist Coast	Jarrah	3	
41	Lewin Naturalist Coast	Marri/Karri	3	
42	Lewin Naturalist Coast	Coast Heath	3	
43	Scott Coastal Plain	Uplands	3	
44	Scott Coastal Plain	Valleys / Swamps	3	
45	Redmond	Uplands	3	
46	Redmond	Valleys	3	
47	Unicup	Jarrah Uplands	3	
48	Unicup	Wandoo Uplands	3	
49	Unicup	Jarrah Valleys	3	
50	Unicup	Wandoo Valleys	3	
51	Unicup	Scrubland	3	
53	Darling Plateau	Wandoo Uplands South	3	
54	Darling Plateau	Wandoo Valleys South	3	

## Appendix 2b

Fauna Habitat ID	FDIS LAND SYSTEM	FDIS LANDSCAPE UNIT	SCORE	Origin
Long Necked Turtle				
1	Darling Plateau	Jarrah Uplands North	0	
2	Darling Plateau	Jarrah Uplands East	0	
3	Darling Plateau	Jarrah Uplands South	0	
4	Darling Plateau	Jarrah Uplands South East	0	
5	Darling Plateau	Karri Uplands	0	
6	Darling Plateau	Wandoo Uplands North	0	
7	Darling Plateau	Powder Bark Uplands	0	
8	Darling Plateau	Scarp	0	
9	Darling Plateau	Depression / Swamps North	0	
10	Darling Plateau	Depressions / Swamps South	0	
11	Darling Plateau	Depressions / Swamps East	0	
12	Darling Plateau	Depressions / Swamps South East	0	
13	Darling Plateau	Jarrah Valleys North	0	
14	Darling Plateau	Jarrah Valleys East	0	
15	Darling Plateau	Jarrah Valleys South	0	
16	Darling Plateau	Jarrah Valleys South East	0	
17	Darling Plateau	Karri Valleys	0	
18	Darling Plateau	Wandoo Valleys North	0	
19	Darling Plateau	Powder Bark Wandoo Valleys	0	
20	Darling Plateau	Granite Outcrops	0	
21	Various Systems	Esturies / Open Water	3	
22	Collie Plain	Uplands	0	
23	Collie Plain	Depressions / Swamps	0	
24	Dandaragan Plateau	Uplands	0	
25	Dandaragan Plateau	Valleys	0	
26	Swan Coastal Plain	Uplands	0	
27	Swan Coastal Plain	Valleys	0	
28	Southern Plains	Jarrah	0	
29	Southern Plains	Karri	0	
30	Southern Plains	Heath / Sedgeland	0	
31	South Coast Dunes	South Coast Dunes	0	
32	Blackwood Plateau	Jarrah Uplands	0	
33	Blackwood Plateau	Karri Uplands	0	
34	Blackwood Plateau	Depressions / Swamps	0	
35	Blackwood Plateau	Valleys	0	
36	Margaret River Plateau	Jarrah Uplands	0	
37	Margaret River Plateau	Karri Uplands	0	
38	Margaret River Plateau	Jarrah Valleys	0	
39	Margaret River Plateau	Karri Valleys	0	
40	Lewin Naturalist Coast	Jarrah	0	
41	Lewin Naturalist Coast	Marri/Karri	0	
42	Lewin Naturalist Coast	Coast Heath	0	
43	Scott Coastal Plain	Uplands	0	
44	Scott Coastal Plain	Valleys / Swamps	0	
45	Redmond	Uplands	0	
46	Redmond	Valleys	0	
47	Unicup	Jarrah Uplands	0	
48	Unicup	Wandoo Uplands	0	
49	Unicup	Jarrah Valleys	0	
50	Unicup	Wandoo Valleys	0	
51	Unicup	Scrubland	0	
53	Darling Plateau	Wandoo Uplands South	0	
54	Darling Plateau	Wandoo Valleys South	0	

## Appendix 2b

Fauna Habitat ID	FDIS LAND SYSTEM	FDIS LANDSCAPE UNIT	SCORE	Origin
Blind Snake				
1	Darling Plateau	Jarrah Uplands North	3	
2	Darling Plateau	Jarrah Uplands East	3	
3	Darling Plateau	Jarrah Uplands South	1	
4	Darling Plateau	Jarrah Uplands South East	3	
5	Darling Plateau	Karri Uplands	0	
6	Darling Plateau	Wandoo Uplands North	3	
7	Darling Plateau	Powder Bark Uplands	3	
8	Darling Plateau	Scarp	3	
9	Darling Plateau	Depression / Swamps North	3	
10	Darling Plateau	Depressions / Swamps South	0	
11	Darling Plateau	Depressions / Swamps East	3	
12	Darling Plateau	Depressions / Swamps South East	2	
13	Darling Plateau	Jarrah Valleys North	2	
14	Darling Plateau	Jarrah Valleys East	3	
15	Darling Plateau	Jarrah Valleys South	0	
16	Darling Plateau	Jarrah Valleys South East	3	
17	Darling Plateau	Karri Valleys	0	
18	Darling Plateau	Wandoo Valleys North	3	
19	Darling Plateau	Powder Bark Wandoo Valleys	3	
20	Darling Plateau	Granite Outcrops	1	
21	Various Systems	Esturies / Open Water	0	
22	Collie Plain	Uplands	3	
23	Collie Plain	Depressions / Swamps	3	
24	Dandaragan Plateau	Uplands	3	
25	Dandaragan Plateau	Valleys	3	
26	Swan Coastal Plain	Uplands	3	
27	Swan Coastal Plain	Valleys	3	
28	Southern Plains	Jarrah	0	
29	Southern Plains	Karri	0	
30	Southern Plains	Heath / Sedgeland	0	
31	South Coast Dunes	South Coast Dunes	0	
32	Blackwood Plateau	Jarrah Uplands	3	
33	Blackwood Plateau	Karri Uplands	0	
34	Blackwood Plateau	Depressions / Swamps	3	
35	Blackwood Plateau	Valleys	0	
36	Margaret River Plateau	Jarrah Uplands	2	
37	Margaret River Plateau	Karri Uplands	0	
38	Margaret River Plateau	Jarrah Valleys	2	
39	Margaret River Plateau	Karri Valleys	0	
40	Lewin Naturalist Coast	Jarrah	1	
41	Lewin Naturalist Coast	Marri/Karri	0	
42	Lewin Naturalist Coast	Coast Heath	2	
43	Scott Coastal Plain	Uplands	1	
44	Scott Coastal Plain	Valleys / Swamps	0	
45	Redmond	Uplands	0	
46	Redmond	Valleys	0	
47	Unicup	Jarrah Uplands	3	
48	Unicup	Wandoo Uplands	3	
49	Unicup	Jarrah Valleys	3	
50	Unicup	Wandoo Valleys	3	
51	Unicup	Scrubland	3	
53	Darling Plateau	Wandoo Uplands South	3	
54	Darling Plateau	Wandoo Valleys South	3	

## Appendix 2b

Fauna Habitat ID	FDIS LAND SYSTEM	FDIS LANDSCAPE UNIT	SCORE	Origin
Rotund Blind Snake				
1	Darling Plateau	Jarrah Uplands North	2	
2	Darling Plateau	Jarrah Uplands East	2	
3	Darling Plateau	Jarrah Uplands South	0	
4	Darling Plateau	Jarrah Uplands South East	2	
5	Darling Plateau	Karri Uplands	0	
6	Darling Plateau	Wandoo Uplands North	2	
7	Darling Plateau	Powder Bark Uplands	2	
8	Darling Plateau	Scarp	2	
9	Darling Plateau	Depression / Swamps North	1	
10	Darling Plateau	Depressions / Swamps South	0	
11	Darling Plateau	Depressions / Swamps East	1	
12	Darling Plateau	Depressions / Swamps South East	0	M
13	Darling Plateau	Jarrah Valleys North	2	
14	Darling Plateau	Jarrah Valleys East	2	M
15	Darling Plateau	Jarrah Valleys South	0	
16	Darling Plateau	Jarrah Valleys South East	0	
17	Darling Plateau	Karri Valleys	0	
18	Darling Plateau	Wandoo Valleys North	2	
19	Darling Plateau	Powder Bark Wandoo Valleys	2	M?
20	Darling Plateau	Granite Outcrops	3	
21	Various Systems	Esturies / Open Water	0	M
22	Collie Plain	Uplands	1	
23	Collie Plain	Depressions / Swamps	1	
24	Dandaragan Plateau	Uplands	1	
25	Dandaragan Plateau	Valleys	1	
26	Swan Coastal Plain	Uplands	1	
27	Swan Coastal Plain	Valleys	1	
28	Southern Plains	Jarrah	0	
29	Southern Plains	Karri	0	
30	Southern Plains	Heath / Sedgeland	0	
31	South Coast Dunes	South Coast Dunes	0	
32	Blackwood Plateau	Jarrah Uplands	0	
33	Blackwood Plateau	Karri Uplands	0	
34	Blackwood Plateau	Depressions / Swamps	0	
35	Blackwood Plateau	Valleys	0	
36	Margaret River Plateau	Jarrah Uplands	0	
37	Margaret River Plateau	Karri Uplands	0	
38	Margaret River Plateau	Jarrah Valleys	0	
39	Margaret River Plateau	Karri Valleys	0	
40	Lewin Naturalist Coast	Jarrah	0	
41	Lewin Naturalist Coast	Marri/Karri	0	
42	Lewin Naturalist Coast	Coast Heath	0	
43	Scott Coastal Plain	Uplands	0	
44	Scott Coastal Plain	Valleys / Swamps	0	
45	Redmond	Uplands	0	
46	Redmond	Valleys	0	
47	Unicup	Jarrah Uplands	1	
48	Unicup	Wandoo Uplands	1	
49	Unicup	Jarrah Valleys	1	
50	Unicup	Wandoo Valleys	1	
51	Unicup	Scrubland	1	
53	Darling Plateau	Wandoo Uplands South	0	
54	Darling Plateau	Wandoo Valleys South	0	

## Appendix 2b

Fauna Habitat ID	FDIS LAND SYSTEM	FDIS LANDSCAPE UNIT	SCORE	Origin
Beaked Blind Snake				
1	Darling Plateau	Jarrah Uplands North	0	
2	Darling Plateau	Jarrah Uplands East	1	
3	Darling Plateau	Jarrah Uplands South	0	
4	Darling Plateau	Jarrah Uplands South East	0	
5	Darling Plateau	Karri Uplands	0	
6	Darling Plateau	Wandoo Uplands North	1	
7	Darling Plateau	Powder Bark Uplands	2	
8	Darling Plateau	Scarp	1	
9	Darling Plateau	Depression / Swamps North	1	
10	Darling Plateau	Depressions / Swamps South	0	
11	Darling Plateau	Depressions / Swamps East	0	
12	Darling Plateau	Depressions / Swamps South East	0	
13	Darling Plateau	Jarrah Valleys North	1	
14	Darling Plateau	Jarrah Valleys East	1	
15	Darling Plateau	Jarrah Valleys South	0	
16	Darling Plateau	Jarrah Valleys South East	0	
17	Darling Plateau	Karri Valleys	0	
18	Darling Plateau	Wandoo Valleys North	1	
19	Darling Plateau	Powder Bark Wandoo Valleys	2	
20	Darling Plateau	Granite Outcrops	0	
21	Various Systems	Esturies / Open Water	0	
22	Collie Plain	Uplands	0	
23	Collie Plain	Depressions / Swamps	0	
24	Dandaragan Plateau	Uplands	2	
25	Dandaragan Plateau	Valleys	2	
26	Swan Coastal Plain	Uplands	2	
27	Swan Coastal Plain	Valleys	2	
28	Southern Plains	Jarrah	0	
29	Southern Plains	Karri	0	
30	Southern Plains	Heath / Sedgeland	0	
31	South Coast Dunes	South Coast Dunes	0	
32	Blackwood Plateau	Jarrah Uplands	0	
33	Blackwood Plateau	Karri Uplands	0	
34	Blackwood Plateau	Depressions / Swamps	0	
35	Blackwood Plateau	Valleys	0	
36	Margaret River Plateau	Jarrah Uplands	0	
37	Margaret River Plateau	Karri Uplands	0	
38	Margaret River Plateau	Jarrah Valleys	0	
39	Margaret River Plateau	Karri Valleys	0	
40	Lewin Naturalist Coast	Jarrah	0	
41	Lewin Naturalist Coast	Marri/Karri	0	
42	Lewin Naturalist Coast	Coast Heath	0	
43	Scott Coastal Plain	Uplands	0	
44	Scott Coastal Plain	Valleys / Swamps	0	
45	Redmond	Uplands	0	
46	Redmond	Valleys	0	
47	Unicup	Jarrah Uplands	0	
48	Unicup	Wandoo Uplands	0	
49	Unicup	Jarrah Valleys	0	
50	Unicup	Wandoo Valleys	0	
51	Unicup	Scrubland	0	
53	Darling Plateau	Wandoo Uplands South	0	
54	Darling Plateau	Wandoo Valleys South	0	

## Appendix 2b

Fauna Habitat ID	FDIS LAND SYSTEM	FDIS LANDSCAPE UNIT	SCORE	Origin
Carpet Python				
1	Darling Plateau	Jarrah Uplands North	2	
2	Darling Plateau	Jarrah Uplands East	2	
3	Darling Plateau	Jarrah Uplands South	1	
4	Darling Plateau	Jarrah Uplands South East	1	
5	Darling Plateau	Karri Uplands	0	
6	Darling Plateau	Wandoo Uplands North	2	
7	Darling Plateau	Powder Bark Uplands	2	
8	Darling Plateau	Scarp	1	
9	Darling Plateau	Depression / Swamps North	1	
10	Darling Plateau	Depressions / Swamps South	0	
11	Darling Plateau	Depressions / Swamps East	1	
12	Darling Plateau	Depressions / Swamps South East	0	
13	Darling Plateau	Jarrah Valleys North	1	
14	Darling Plateau	Jarrah Valleys East	1	
15	Darling Plateau	Jarrah Valleys South	0	
16	Darling Plateau	Jarrah Valleys South East	1	
17	Darling Plateau	Karri Valleys	0	
18	Darling Plateau	Wandoo Valleys North	2	
19	Darling Plateau	Powder Bark Wandoo Valleys	2	
20	Darling Plateau	Granite Outcrops	2	
21	Various Systems	Esturies / Open Water	0	
22	Collie Plain	Uplands	1	
23	Collie Plain	Depressions / Swamps	0	
24	Dandaragan Plateau	Uplands	2	
25	Dandaragan Plateau	Valleys	2	
26	Swan Coastal Plain	Uplands	1	
27	Swan Coastal Plain	Valleys	1	
28	Southern Plains	Jarrah	1	
29	Southern Plains	Karri	0	
30	Southern Plains	Heath / Sedgeland	0	
31	South Coast Dunes	South Coast Dunes	0	
32	Blackwood Plateau	Jarrah Uplands	1	
33	Blackwood Plateau	Karri Uplands	0	
34	Blackwood Plateau	Depressions / Swamps	1	
35	Blackwood Plateau	Valleys	1	
36	Margaret River Plateau	Jarrah Uplands	1	
37	Margaret River Plateau	Karri Uplands	0	
38	Margaret River Plateau	Jarrah Valleys	1	
39	Margaret River Plateau	Karri Valleys	0	
40	Lewin Naturalist Coast	Jarrah	1	
41	Lewin Naturalist Coast	Marri/Karri	0	
42	Lewin Naturalist Coast	Coast Heath	1	
43	Scott Coastal Plain	Uplands	1	
44	Scott Coastal Plain	Valleys / Swamps	0	
45	Redmond	Uplands	1	
46	Redmond	Valleys	0	
47	Unicup	Jarrah Uplands	1	
48	Unicup	Wandoo Uplands	1	
49	Unicup	Jarrah Valleys	1	
50	Unicup	Wandoo Valleys	1	
51	Unicup	Scrubland	1	
53	Darling Plateau	Wandoo Uplands South	0	
54	Darling Plateau	Wandoo Valleys South	0	



## Appendix 2b

Fauna Habitat ID	FDIS LAND SYSTEM	FDIS LANDSCAPE UNIT	SCORE	Origin
Woma				
1	Darling Plateau	Jarrah Uplands North	0	
2	Darling Plateau	Jarrah Uplands East	0	
3	Darling Plateau	Jarrah Uplands South	0	
4	Darling Plateau	Jarrah Uplands South East	0	
5	Darling Plateau	Karri Uplands	0	
6	Darling Plateau	Wandoo Uplands North	0	
7	Darling Plateau	Powder Bark Uplands	1	
8	Darling Plateau	Scarp	0	
9	Darling Plateau	Depression / Swamps North	0	
10	Darling Plateau	Depressions / Swamps South	0	
11	Darling Plateau	Depressions / Swamps East	0	
12	Darling Plateau	Depressions / Swamps South East	0	
13	Darling Plateau	Jarrah Valleys North	0	
14	Darling Plateau	Jarrah Valleys East	0	
15	Darling Plateau	Jarrah Valleys South	0	
16	Darling Plateau	Jarrah Valleys South East	0	
17	Darling Plateau	Karri Valleys	0	
18	Darling Plateau	Wandoo Valleys North	0	
19	Darling Plateau	Powder Bark Wandoo Valleys	1	
20	Darling Plateau	Granite Outcrops	0	
21	Various Systems	Esturies / Open Water	0	
22	Collie Plain	Uplands	0	
23	Collie Plain	Depressions / Swamps	0	
24	Dandaragan Plateau	Uplands	0	
25	Dandaragan Plateau	Valleys	0	
26	Swan Coastal Plain	Uplands	0	
27	Swan Coastal Plain	Valleys	0	
28	Southern Plains	Jarrah	0	
29	Southern Plains	Karri	0	
30	Southern Plains	Heath / Sedgeland	0	
31	South Coast Dunes	South Coast Dunes	0	
32	Blackwood Plateau	Jarrah Uplands	0	
33	Blackwood Plateau	Karri Uplands	0	
34	Blackwood Plateau	Depressions / Swamps	0	
35	Blackwood Plateau	Valleys	0	
36	Margaret River Plateau	Jarrah Uplands	0	
37	Margaret River Plateau	Karri Uplands	0	
38	Margaret River Plateau	Jarrah Valleys	0	
39	Margaret River Plateau	Karri Valleys	0	
40	Lewin Naturalist Coast	Jarrah	0	
41	Lewin Naturalist Coast	Marri/Karri	0	
42	Lewin Naturalist Coast	Coast Heath	0	
43	Scott Coastal Plain	Uplands	0	
44	Scott Coastal Plain	Valleys / Swamps	0	
45	Redmond	Uplands	0	
46	Redmond	Valleys	0	
47	Unicup	Jarrah Uplands	0	
48	Unicup	Wandoo Uplands	0	
49	Unicup	Jarrah Valleys	0	
50	Unicup	Wandoo Valleys	0	
51	Unicup	Scrubland	0	
53	Darling Plateau	Wandoo Uplands South	0	
54	Darling Plateau	Wandoo Valleys South	0	

## Appendix 2b

Fauna Habitat ID	FDIS LAND SYSTEM	FDIS LANDSCAPE UNIT	SCORE	Origin
Stimson's Python				
1	Darling Plateau	Jarrah Uplands North	0	
2	Darling Plateau	Jarrah Uplands East	0	
3	Darling Plateau	Jarrah Uplands South	0	
4	Darling Plateau	Jarrah Uplands South East	0	
5	Darling Plateau	Karri Uplands	0	
6	Darling Plateau	Wandoo Uplands North	1	
7	Darling Plateau	Powder Bark Uplands	1	
8	Darling Plateau	Scarp	0	
9	Darling Plateau	Depression / Swamps North	0	
10	Darling Plateau	Depressions / Swamps South	0	
11	Darling Plateau	Depressions / Swamps East	0	
12	Darling Plateau	Depressions / Swamps South East	0	
13	Darling Plateau	Jarrah Valleys North	0	
14	Darling Plateau	Jarrah Valleys East	0	
15	Darling Plateau	Jarrah Valleys South	0	
16	Darling Plateau	Jarrah Valleys South East	0	
17	Darling Plateau	Karri Valleys	0	
18	Darling Plateau	Wandoo Valleys North	0	
19	Darling Plateau	Powder Bark Wandoo Valleys	1	
20	Darling Plateau	Granite Outcrops	0	
21	Various Systems	Esturies / Open Water	0	
22	Collie Plain	Uplands	0	
23	Collie Plain	Depressions / Swamps	0	
24	Dandaragan Plateau	Uplands	1	
25	Dandaragan Plateau	Valleys	1	
26	Swan Coastal Plain	Uplands	0	
27	Swan Coastal Plain	Valleys	0	
28	Southern Plains	Jarrah	0	
29	Southern Plains	Karri	0	
30	Southern Plains	Heath / Sedgeland	0	
31	South Coast Dunes	South Coast Dunes	0	
32	Blackwood Plateau	Jarrah Uplands	0	
33	Blackwood Plateau	Karri Uplands	0	
34	Blackwood Plateau	Depressions / Swamps	0	
35	Blackwood Plateau	Valleys	0	
36	Margaret River Plateau	Jarrah Uplands	0	
37	Margaret River Plateau	Karri Uplands	0	
38	Margaret River Plateau	Jarrah Valleys	0	
39	Margaret River Plateau	Karri Valleys	0	
40	Lewin Naturalist Coast	Jarrah	0	
41	Lewin Naturalist Coast	Marri/Karri	0	
42	Lewin Naturalist Coast	Coast Heath	0	
43	Scott Coastal Plain	Uplands	0	
44	Scott Coastal Plain	Valleys / Swamps	0	
45	Redmond	Uplands	0	
46	Redmond	Valleys	0	
47	Unicup	Jarrah Uplands	0	
48	Unicup	Wandoo Uplands	0	
49	Unicup	Jarrah Valleys	0	
50	Unicup	Wandoo Valleys	0	
51	Unicup	Scrubland	0	
53	Darling Plateau	Wandoo Uplands South	0	
54	Darling Plateau	Wandoo Valleys South	0	

## Appendix 2b

Fauna Habitat ID	FDIS LAND SYSTEM	FDIS LANDSCAPE UNIT	SCORE	Origin
Southern Death Adder				
1	Darling Plateau	Jarrah Uplands North	0	
2	Darling Plateau	Jarrah Uplands East	0	
3	Darling Plateau	Jarrah Uplands South	0	
4	Darling Plateau	Jarrah Uplands South East	0	
5	Darling Plateau	Karri Uplands	0	
6	Darling Plateau	Wandoo Uplands North	1	
7	Darling Plateau	Powder Bark Uplands	2	
8	Darling Plateau	Scarp	0	
9	Darling Plateau	Depression / Swamps North	0	
10	Darling Plateau	Depressions / Swamps South	0	
11	Darling Plateau	Depressions / Swamps East	0	
12	Darling Plateau	Depressions / Swamps South East	0	
13	Darling Plateau	Jarrah Valleys North	0	
14	Darling Plateau	Jarrah Valleys East	0	
15	Darling Plateau	Jarrah Valleys South	0	
16	Darling Plateau	Jarrah Valleys South East	0	
17	Darling Plateau	Karri Valleys	0	
18	Darling Plateau	Wandoo Valleys North	1	
19	Darling Plateau	Powder Bark Wandoo Valleys	1	
20	Darling Plateau	Granite Outcrops	1	
21	Various Systems	Esturies / Open Water	0	
22	Collie Plain	Uplands	0	
23	Collie Plain	Depressions / Swamps	0	
24	Dandaragan Plateau	Uplands	2	
25	Dandaragan Plateau	Valleys	2	
26	Swan Coastal Plain	Uplands	0	
27	Swan Coastal Plain	Valleys	0	
28	Southern Plains	Jarrah	0	
29	Southern Plains	Karri	0	
30	Southern Plains	Heath / Sedgeland	0	
31	South Coast Dunes	South Coast Dunes	0	
32	Blackwood Plateau	Jarrah Uplands	0	
33	Blackwood Plateau	Karri Uplands	0	
34	Blackwood Plateau	Depressions / Swamps	0	
35	Blackwood Plateau	Valleys	0	
36	Margaret River Plateau	Jarrah Uplands	0	
37	Margaret River Plateau	Karri Uplands	0	
38	Margaret River Plateau	Jarrah Valleys	0	
39	Margaret River Plateau	Karri Valleys	0	
40	Lewin Naturalist Coast	Jarrah	0	
41	Lewin Naturalist Coast	Marri/Karri	0	
42	Lewin Naturalist Coast	Coast Heath	0	
43	Scott Coastal Plain	Uplands	0	
44	Scott Coastal Plain	Valleys / Swamps	0	
45	Redmond	Uplands	0	
46	Redmond	Valleys	0	
47	Unicup	Jarrah Uplands	0	
48	Unicup	Wandoo Uplands	0	
49	Unicup	Jarrah Valleys	0	
50	Unicup	Wandoo Valleys	0	
51	Unicup	Scrubland	0	
53	Darling Plateau	Wandoo Uplands South	0	
54	Darling Plateau	Wandoo Valleys South	0	

## Appendix 2b

Fauna Habitat ID	FDIS LAND SYSTEM	FDIS LANDSCAPE UNIT	SCORE	Origin
Yellow-faced Whipsnake				
1	Darling Plateau	Jarrah Uplands North	0	
2	Darling Plateau	Jarrah Uplands East	0	
3	Darling Plateau	Jarrah Uplands South	0	
4	Darling Plateau	Jarrah Uplands South East	0	
5	Darling Plateau	Karri Uplands	0	
6	Darling Plateau	Wandoo Uplands North	0	
7	Darling Plateau	Powder Bark Uplands	0	
8	Darling Plateau	Scarp	0	
9	Darling Plateau	Depression / Swamps North	0	
10	Darling Plateau	Depressions / Swamps South	0	
11	Darling Plateau	Depressions / Swamps East	0	
12	Darling Plateau	Depressions / Swamps South East	0	
13	Darling Plateau	Jarrah Valleys North	0	
14	Darling Plateau	Jarrah Valleys East	0	
15	Darling Plateau	Jarrah Valleys South	0	
16	Darling Plateau	Jarrah Valleys South East	0	
17	Darling Plateau	Karri Valleys	0	
18	Darling Plateau	Wandoo Valleys North	0	
19	Darling Plateau	Powder Bark Wandoo Valleys	0	
20	Darling Plateau	Granite Outcrops	0	
21	Various Systems	Esturies / Open Water	0	
22	Collie Plain	Uplands	0	
23	Collie Plain	Depressions / Swamps	0	
24	Dandaragan Plateau	Uplands	1	
25	Dandaragan Plateau	Valleys	1	
26	Swan Coastal Plain	Uplands	2	
27	Swan Coastal Plain	Valleys	2	
28	Southern Plains	Jarrah	0	
29	Southern Plains	Karri	0	
30	Southern Plains	Heath / Sedgeland	0	
31	South Coast Dunes	South Coast Dunes	0	
32	Blackwood Plateau	Jarrah Uplands	0	
33	Blackwood Plateau	Karri Uplands	0	
34	Blackwood Plateau	Depressions / Swamps	0	
35	Blackwood Plateau	Valleys	0	
36	Margaret River Plateau	Jarrah Uplands	0	
37	Margaret River Plateau	Karri Uplands	0	
38	Margaret River Plateau	Jarrah Valleys	0	
39	Margaret River Plateau	Karri Valleys	0	
40	Lewin Naturalist Coast	Jarrah	0	
41	Lewin Naturalist Coast	Marri/Karri	0	
42	Lewin Naturalist Coast	Coast Heath	0	
43	Scott Coastal Plain	Uplands	0	
44	Scott Coastal Plain	Valleys / Swamps	0	
45	Redmond	Uplands	0	
46	Redmond	Valleys	0	
47	Unicup	Jarrah Uplands	0	
48	Unicup	Wandoo Uplands	0	
49	Unicup	Jarrah Valleys	0	
50	Unicup	Wandoo Valleys	0	
51	Unicup	Scrubland	0	
53	Darling Plateau	Wandoo Uplands South	0	
54	Darling Plateau	Wandoo Valleys South	0	

## Appendix 2b

Fauna Habitat ID	FDIS LAND SYSTEM	FDIS LANDSCAPE UNIT	SCORE	Origin
Crowned Snake				
1	Darling Plateau	Jarrah Uplands North	0	
2	Darling Plateau	Jarrah Uplands East	0	
3	Darling Plateau	Jarrah Uplands South	0	
4	Darling Plateau	Jarrah Uplands South East	0	
5	Darling Plateau	Karri Uplands	0	
6	Darling Plateau	Wandoo Uplands North	0	
7	Darling Plateau	Powder Bark Uplands	0	
8	Darling Plateau	Scarp	0	
9	Darling Plateau	Depression / Swamps North	0	
10	Darling Plateau	Depressions / Swamps South	0	
11	Darling Plateau	Depressions / Swamps East	0	
12	Darling Plateau	Depressions / Swamps South East	0	
13	Darling Plateau	Jarrah Valleys North	0	
14	Darling Plateau	Jarrah Valleys East	0	
15	Darling Plateau	Jarrah Valleys South	0	
16	Darling Plateau	Jarrah Valleys South East	0	
17	Darling Plateau	Karri Valleys	0	
18	Darling Plateau	Wandoo Valleys North	0	
19	Darling Plateau	Powder Bark Wandoo Valleys	0	
20	Darling Plateau	Granite Outcrops	0	
21	Various Systems	Esturies / Open Water	0	
22	Collie Plain	Uplands	0	
23	Collie Plain	Depressions / Swamps	0	
24	Dandaragan Plateau	Uplands	0	
25	Dandaragan Plateau	Valleys	0	
26	Swan Coastal Plain	Uplands	3	
27	Swan Coastal Plain	Valleys	3	
28	Southern Plains	Jarrah	3	
29	Southern Plains	Karri	0	
30	Southern Plains	Heath / Sedgeland	3	
31	South Coast Dunes	South Coast Dunes	3	
32	Blackwood Plateau	Jarrah Uplands	0	
33	Blackwood Plateau	Karri Uplands	0	
34	Blackwood Plateau	Depressions / Swamps	0	
35	Blackwood Plateau	Valleys	0	
36	Margaret River Plateau	Jarrah Uplands	0	
37	Margaret River Plateau	Karri Uplands	0	
38	Margaret River Plateau	Jarrah Valleys	0	
39	Margaret River Plateau	Karri Valleys	0	
40	Lewin Naturalist Coast	Jarrah	0	
41	Lewin Naturalist Coast	Marri/Karri	0	
42	Lewin Naturalist Coast	Coast Heath	3	
43	Scott Coastal Plain	Uplands	3	
44	Scott Coastal Plain	Valleys / Swamps	3	
45	Redmond	Uplands	1	
46	Redmond	Valleys	1	
47	Unicup	Jarrah Uplands	0	
48	Unicup	Wandoo Uplands	0	
49	Unicup	Jarrah Valleys	0	
50	Unicup	Wandoo Valleys	0	
51	Unicup	Scrubland	0	
53	Darling Plateau	Wandoo Uplands South	0	
54	Darling Plateau	Wandoo Valleys South	0	

## Appendix 2b

Fauna Habitat ID	FDIS LAND SYSTEM	FDIS LANDSCAPE UNIT	SCORE	Origin
Bardick				
1	Darling Plateau	Jarrah Uplands North	0	
2	Darling Plateau	Jarrah Uplands East	0	
3	Darling Plateau	Jarrah Uplands South	0	
4	Darling Plateau	Jarrah Uplands South East	0	
5	Darling Plateau	Karri Uplands	0	
6	Darling Plateau	Wandoo Uplands North	0	
7	Darling Plateau	Powder Bark Uplands	0	
8	Darling Plateau	Scarp	0	
9	Darling Plateau	Depression / Swamps North	0	
10	Darling Plateau	Depressions / Swamps South	0	
11	Darling Plateau	Depressions / Swamps East	0	
12	Darling Plateau	Depressions / Swamps South East	0	
13	Darling Plateau	Jarrah Valleys North	0	
14	Darling Plateau	Jarrah Valleys East	0	
15	Darling Plateau	Jarrah Valleys South	0	
16	Darling Plateau	Jarrah Valleys South East	0	
17	Darling Plateau	Karri Valleys	0	
18	Darling Plateau	Wandoo Valleys North	0	
19	Darling Plateau	Powder Bark Wandoo Valleys	0	
20	Darling Plateau	Granite Outcrops	0	
21	Various Systems	Esturies / Open Water	0	
22	Collie Plain	Uplands	0	
23	Collie Plain	Depressions / Swamps	0	
24	Dandaragan Plateau	Uplands	0	
25	Dandaragan Plateau	Valleys	0	
26	Swan Coastal Plain	Uplands	2	
27	Swan Coastal Plain	Valleys	2	
28	Southern Plains	Jarrah	2	
29	Southern Plains	Karri	0	
30	Southern Plains	Heath / Sedgeland	3	
31	South Coast Dunes	South Coast Dunes	3	
32	Blackwood Plateau	Jarrah Uplands	0	
33	Blackwood Plateau	Karri Uplands	0	
34	Blackwood Plateau	Depressions / Swamps	0	
35	Blackwood Plateau	Valleys	0	
36	Margaret River Plateau	Jarrah Uplands	0	
37	Margaret River Plateau	Karri Uplands	0	
38	Margaret River Plateau	Jarrah Valleys	0	
39	Margaret River Plateau	Karri Valleys	0	
40	Lewin Naturalist Coast	Jarrah	0	
41	Lewin Naturalist Coast	Marri/Karri	0	
42	Lewin Naturalist Coast	Coast Heath	2	
43	Scott Coastal Plain	Uplands	2	
44	Scott Coastal Plain	Valleys / Swamps	2	
45	Redmond	Uplands	2	
46	Redmond	Valleys	2	
47	Unicup	Jarrah Uplands	0	
48	Unicup	Wandoo Uplands	0	
49	Unicup	Jarrah Valleys	0	
50	Unicup	Wandoo Valleys	0	
51	Unicup	Scrubland	0	
53	Darling Plateau	Wandoo Uplands South	0	
54	Darling Plateau	Wandoo Valleys South	0	

## Appendix 2b

Fauna Habitat ID	FDIS LAND SYSTEM	FDIS LANDSCAPE UNIT	SCORE	Origin
Short-Nosed Snake				
1	Darling Plateau	Jarrah Uplands North	0	
2	Darling Plateau	Jarrah Uplands East	0	
3	Darling Plateau	Jarrah Uplands South	0	
4	Darling Plateau	Jarrah Uplands South East	0	
5	Darling Plateau	Karri Uplands	0	
6	Darling Plateau	Wandoo Uplands North	0	
7	Darling Plateau	Powder Bark Uplands	0	
8	Darling Plateau	Scarp	0	
9	Darling Plateau	Depression / Swamps North	0	
10	Darling Plateau	Depressions / Swamps South	0	
11	Darling Plateau	Depressions / Swamps East	0	
12	Darling Plateau	Depressions / Swamps South East	0	M
13	Darling Plateau	Jarrah Valleys North	0	
14	Darling Plateau	Jarrah Valleys East	0	M
15	Darling Plateau	Jarrah Valleys South	0	
16	Darling Plateau	Jarrah Valleys South East	0	
17	Darling Plateau	Karri Valleys	0	
18	Darling Plateau	Wandoo Valleys North	0	
19	Darling Plateau	Powder Bark Wandoo Valleys	0	M?
20	Darling Plateau	Granite Outcrops	0	
21	Various Systems	Esturies / Open Water	0	
22	Collie Plain	Uplands	0	
23	Collie Plain	Depressions / Swamps	0	
24	Dandaragan Plateau	Uplands	0	
25	Dandaragan Plateau	Valleys	0	
26	Swan Coastal Plain	Uplands	0	
27	Swan Coastal Plain	Valleys	0	
28	Southern Plains	Jarrah	2	
29	Southern Plains	Karri	0	
30	Southern Plains	Heath / Sedgeland	3	
31	South Coast Dunes	South Coast Dunes	0	
32	Blackwood Plateau	Jarrah Uplands	0	
33	Blackwood Plateau	Karri Uplands	0	
34	Blackwood Plateau	Depressions / Swamps	0	
35	Blackwood Plateau	Valleys	0	
36	Margaret River Plateau	Jarrah Uplands	0	
37	Margaret River Plateau	Karri Uplands	0	
38	Margaret River Plateau	Jarrah Valleys	0	
39	Margaret River Plateau	Karri Valleys	0	
40	Lewin Naturalist Coast	Jarrah	0	
41	Lewin Naturalist Coast	Marri/Karri	0	
42	Lewin Naturalist Coast	Coast Heath	0	
43	Scott Coastal Plain	Uplands	1	M
44	Scott Coastal Plain	Valleys / Swamps	1	
45	Redmond	Uplands	1	
46	Redmond	Valleys	1	
47	Unicup	Jarrah Uplands	0	
48	Unicup	Wandoo Uplands	0	
49	Unicup	Jarrah Valleys	0	
50	Unicup	Wandoo Valleys	0	
51	Unicup	Scrubland	0	
53	Darling Plateau	Wandoo Uplands South	0	
54	Darling Plateau	Wandoo Valleys South	0	

## Appendix 2b

Fauna Habitat ID	FDIS LAND SYSTEM	FDIS LANDSCAPE UNIT	SCORE	Origin
Tiger Snake				
1	Darling Plateau	Jarrah Uplands North	2	
2	Darling Plateau	Jarrah Uplands East	1	
3	Darling Plateau	Jarrah Uplands South	3	
4	Darling Plateau	Jarrah Uplands South East	3	
5	Darling Plateau	Karri Uplands	3	
6	Darling Plateau	Wandoo Uplands North	0	
7	Darling Plateau	Powder Bark Uplands	1	
8	Darling Plateau	Scarp	2	
9	Darling Plateau	Depression / Swamps North	3	
10	Darling Plateau	Depressions / Swamps South	3	
11	Darling Plateau	Depressions / Swamps East	3	
12	Darling Plateau	Depressions / Swamps South East	3	
13	Darling Plateau	Jarrah Valleys North	3	
14	Darling Plateau	Jarrah Valleys East	2	M
15	Darling Plateau	Jarrah Valleys South	3	
16	Darling Plateau	Jarrah Valleys South East	3	
17	Darling Plateau	Karri Valleys	3	
18	Darling Plateau	Wandoo Valleys North	0	
19	Darling Plateau	Powder Bark Wandoo Valleys	1	
20	Darling Plateau	Granite Outcrops	1	
21	Various Systems	Esturies / Open Water	3	M
22	Collie Plain	Uplands	2	
23	Collie Plain	Depressions / Swamps	3	
24	Dandaragan Plateau	Uplands	1	
25	Dandaragan Plateau	Valleys	1	
26	Swan Coastal Plain	Uplands	3	
27	Swan Coastal Plain	Valleys	3	
28	Southern Plains	Jarrah	3	M
29	Southern Plains	Karri	3	
30	Southern Plains	Heath / Sedgeland	3	
31	South Coast Dunes	South Coast Dunes	3	
32	Blackwood Plateau	Jarrah Uplands	3	
33	Blackwood Plateau	Karri Uplands	3	
34	Blackwood Plateau	Depressions / Swamps	3	
35	Blackwood Plateau	Valleys	3	
36	Margaret River Plateau	Jarrah Uplands	3	
37	Margaret River Plateau	Karri Uplands	3	
38	Margaret River Plateau	Jarrah Valleys	3	
39	Margaret River Plateau	Karri Valleys	3	
40	Lewin Naturalist Coast	Jarrah	3	
41	Lewin Naturalist Coast	Marri/Karri	3	
42	Lewin Naturalist Coast	Coast Heath	3	
43	Scott Coastal Plain	Uplands	3	
44	Scott Coastal Plain	Valleys / Swamps	3	
45	Redmond	Uplands	3	
46	Redmond	Valleys	3	
47	Unicup	Jarrah Uplands	2	
48	Unicup	Wandoo Uplands	2	
49	Unicup	Jarrah Valleys	3	
50	Unicup	Wandoo Valleys	3	
51	Unicup	Scrubland	3	
53	Darling Plateau	Wandoo Uplands South	2	
54	Darling Plateau	Wandoo Valleys South	2	



## Appendix 2b

Fauna Habitat ID	FDIS LAND SYSTEM	FDIS LANDSCAPE UNIT	SCORE	Origin
Dugite				
1	Darling Plateau	Jarrah Uplands North	3	
2	Darling Plateau	Jarrah Uplands East	3	
3	Darling Plateau	Jarrah Uplands South	3	
4	Darling Plateau	Jarrah Uplands South East	3	
5	Darling Plateau	Karri Uplands	2	
6	Darling Plateau	Wandoo Uplands North	3	
7	Darling Plateau	Powder Bark Uplands	3	
8	Darling Plateau	Scarp	3	
9	Darling Plateau	Depression / Swamps North	3	
10	Darling Plateau	Depressions / Swamps South	3	
11	Darling Plateau	Depressions / Swamps East	3	
12	Darling Plateau	Depressions / Swamps South East	3	
13	Darling Plateau	Jarrah Valleys North	3	
14	Darling Plateau	Jarrah Valleys East	3	
15	Darling Plateau	Jarrah Valleys South	3	
16	Darling Plateau	Jarrah Valleys South East	3	
17	Darling Plateau	Karri Valleys	2	
18	Darling Plateau	Wandoo Valleys North	3	
19	Darling Plateau	Powder Bark Wandoo Valleys	3	
20	Darling Plateau	Granite Outcrops	3	
21	Various Systems	Esturies / Open Water	0	
22	Collie Plain	Uplands	3	
23	Collie Plain	Depressions / Swamps	3	
24	Dandaragan Plateau	Uplands	3	
25	Dandaragan Plateau	Valleys	3	
26	Swan Coastal Plain	Uplands	3	
27	Swan Coastal Plain	Valleys	3	
28	Southern Plains	Jarrah	3	
29	Southern Plains	Karri	2	
30	Southern Plains	Heath / Sedgeland	3	
31	South Coast Dunes	South Coast Dunes	3	
32	Blackwood Plateau	Jarrah Uplands	3	
33	Blackwood Plateau	Karri Uplands	2	
34	Blackwood Plateau	Depressions / Swamps	3	
35	Blackwood Plateau	Valleys	3	
36	Margaret River Plateau	Jarrah Uplands	3	
37	Margaret River Plateau	Karri Uplands	2	
38	Margaret River Plateau	Jarrah Valleys	3	
39	Margaret River Plateau	Karri Valleys	2	
40	Lewin Naturalist Coast	Jarrah	3	
41	Lewin Naturalist Coast	Marri/Karri	2	
42	Lewin Naturalist Coast	Coast Heath	3	
43	Scott Coastal Plain	Uplands	3	
44	Scott Coastal Plain	Valleys / Swamps	3	
45	Redmond	Uplands	3	
46	Redmond	Valleys	3	
47	Unicup	Jarrah Uplands	3	
48	Unicup	Wandoo Uplands	3	
49	Unicup	Jarrah Valleys	3	
50	Unicup	Wandoo Valleys	3	
51	Unicup	Scrubland	3	
53	Darling Plateau	Wandoo Uplands South	3	
54	Darling Plateau	Wandoo Valleys South	3	

## Appendix 2b

Fauna Habitat ID	FDIS LAND SYSTEM	FDIS LANDSCAPE UNIT	SCORE	Origin
Gwardar				
1	Darling Plateau	Jarrah Uplands North	0	
2	Darling Plateau	Jarrah Uplands East	0	
3	Darling Plateau	Jarrah Uplands South	0	
4	Darling Plateau	Jarrah Uplands South East	0	
5	Darling Plateau	Karri Uplands	0	
6	Darling Plateau	Wandoo Uplands North	0	
7	Darling Plateau	Powder Bark Uplands	1	
8	Darling Plateau	Scarp	0	
9	Darling Plateau	Depression / Swamps North	0	
10	Darling Plateau	Depressions / Swamps South	0	
11	Darling Plateau	Depressions / Swamps East	0	
12	Darling Plateau	Depressions / Swamps South East	0	
13	Darling Plateau	Jarrah Valleys North	0	
14	Darling Plateau	Jarrah Valleys East	0	
15	Darling Plateau	Jarrah Valleys South	0	
16	Darling Plateau	Jarrah Valleys South East	0	
17	Darling Plateau	Karri Valleys	0	
18	Darling Plateau	Wandoo Valleys North	0	
19	Darling Plateau	Powder Bark Wandoo Valleys	0	
20	Darling Plateau	Granite Outcrops	0	
21	Various Systems	Esturies / Open Water	0	
22	Collie Plain	Uplands	0	
23	Collie Plain	Depressions / Swamps	0	
24	Dandaragan Plateau	Uplands	0	
25	Dandaragan Plateau	Valleys	0	
26	Swan Coastal Plain	Uplands	0	
27	Swan Coastal Plain	Valleys	0	
28	Southern Plains	Jarrah	0	
29	Southern Plains	Karri	0	
30	Southern Plains	Heath / Sedgeland	0	
31	South Coast Dunes	South Coast Dunes	0	
32	Blackwood Plateau	Jarrah Uplands	0	
33	Blackwood Plateau	Karri Uplands	0	
34	Blackwood Plateau	Depressions / Swamps	0	
35	Blackwood Plateau	Valleys	0	
36	Margaret River Plateau	Jarrah Uplands	0	
37	Margaret River Plateau	Karri Uplands	0	
38	Margaret River Plateau	Jarrah Valleys	0	
39	Margaret River Plateau	Karri Valleys	0	
40	Lewin Naturalist Coast	Jarrah	0	
41	Lewin Naturalist Coast	Marri/Karri	0	
42	Lewin Naturalist Coast	Coast Heath	0	
43	Scott Coastal Plain	Uplands	0	
44	Scott Coastal Plain	Valleys / Swamps	0	
45	Redmond	Uplands	0	
46	Redmond	Valleys	0	
47	Unicup	Jarrah Uplands	0	
48	Unicup	Wandoo Uplands	0	
49	Unicup	Jarrah Valleys	0	
50	Unicup	Wandoo Valleys	0	
51	Unicup	Scrubland	0	
53	Darling Plateau	Wandoo Uplands South	0	
54	Darling Plateau	Wandoo Valleys South	0	

## Appendix 2b

Fauna Habitat ID	FDIS LAND SYSTEM	FDIS LANDSCAPE UNIT	SCORE	Origin
Square-Nosed Snake				
1	Darling Plateau	Jarrah Uplands North	0	
2	Darling Plateau	Jarrah Uplands East	0	
3	Darling Plateau	Jarrah Uplands South	0	
4	Darling Plateau	Jarrah Uplands South East	0	
5	Darling Plateau	Karri Uplands	0	
6	Darling Plateau	Wandoo Uplands North	0	
7	Darling Plateau	Powder Bark Uplands	0	
8	Darling Plateau	Scarp	0	
9	Darling Plateau	Depression / Swamps North	0	
10	Darling Plateau	Depressions / Swamps South	0	
11	Darling Plateau	Depressions / Swamps East	0	
12	Darling Plateau	Depressions / Swamps South East	3	
13	Darling Plateau	Jarrah Valleys North	0	
14	Darling Plateau	Jarrah Valleys East	0	
15	Darling Plateau	Jarrah Valleys South	0	
16	Darling Plateau	Jarrah Valleys South East	0	
17	Darling Plateau	Karri Valleys	0	
18	Darling Plateau	Wandoo Valleys North	0	
19	Darling Plateau	Powder Bark Wandoo Valleys	0	
20	Darling Plateau	Granite Outcrops	0	
21	Various Systems	Esturies / Open Water	0	
22	Collie Plain	Uplands	0	
23	Collie Plain	Depressions / Swamps	0	
24	Dandaragan Plateau	Uplands	0	
25	Dandaragan Plateau	Valleys	0	
26	Swan Coastal Plain	Uplands	0	
27	Swan Coastal Plain	Valleys	0	
28	Southern Plains	Jarrah	3	
29	Southern Plains	Karri	0	
30	Southern Plains	Heath / Sedgeland	3	
31	South Coast Dunes	South Coast Dunes	3	
32	Blackwood Plateau	Jarrah Uplands	0	
33	Blackwood Plateau	Karri Uplands	0	
34	Blackwood Plateau	Depressions / Swamps	2	
35	Blackwood Plateau	Valleys	0	
36	Margaret River Plateau	Jarrah Uplands	0	
37	Margaret River Plateau	Karri Uplands	0	
38	Margaret River Plateau	Jarrah Valleys	0	
39	Margaret River Plateau	Karri Valleys	0	
40	Lewin Naturalist Coast	Jarrah	0	
41	Lewin Naturalist Coast	Marri/Karri	0	
42	Lewin Naturalist Coast	Coast Heath	0	
43	Scott Coastal Plain	Uplands	3	
44	Scott Coastal Plain	Valleys / Swamps	3	
45	Redmond	Uplands	3	
46	Redmond	Valleys	3	
47	Unicup	Jarrah Uplands	0	
48	Unicup	Wandoo Uplands	0	
49	Unicup	Jarrah Valleys	0	
50	Unicup	Wandoo Valleys	0	
51	Unicup	Scrubland	0	
53	Darling Plateau	Wandoo Uplands South	0	
54	Darling Plateau	Wandoo Valleys South	0	

## Appendix 2b

Fauna Habitat ID	FDIS LAND SYSTEM	FDIS LANDSCAPE UNIT	SCORE	Origin
Gould's Snake				
1	Darling Plateau	Jarrah Uplands North	2	M
2	Darling Plateau	Jarrah Uplands East	3	
3	Darling Plateau	Jarrah Uplands South	0	
4	Darling Plateau	Jarrah Uplands South East	0	
5	Darling Plateau	Karri Uplands	0	M
6	Darling Plateau	Wandoo Uplands North	3	
7	Darling Plateau	Powder Bark Uplands	3	
8	Darling Plateau	Scarp	2	
9	Darling Plateau	Depression / Swamps North	1	
10	Darling Plateau	Depressions / Swamps South	0	
11	Darling Plateau	Depressions / Swamps East	1	M
12	Darling Plateau	Depressions / Swamps South East	0	
13	Darling Plateau	Jarrah Valleys North	1	M
14	Darling Plateau	Jarrah Valleys East	1	
15	Darling Plateau	Jarrah Valleys South	0	
16	Darling Plateau	Jarrah Valleys South East	0	
17	Darling Plateau	Karri Valleys	0	M
18	Darling Plateau	Wandoo Valleys North	3	
19	Darling Plateau	Powder Bark Wandoo Valleys	3	
20	Darling Plateau	Granite Outcrops	3	M
21	Various Systems	Esturies / Open Water	0	
22	Collie Plain	Uplands	0	
23	Collie Plain	Depressions / Swamps	0	
24	Dandaragan Plateau	Uplands	3	
25	Dandaragan Plateau	Valleys	3	
26	Swan Coastal Plain	Uplands	2	
27	Swan Coastal Plain	Valleys	2	
28	Southern Plains	Jarrah	0	
29	Southern Plains	Karri	0	M
30	Southern Plains	Heath / Sedgeland	0	
31	South Coast Dunes	South Coast Dunes	0	M
32	Blackwood Plateau	Jarrah Uplands	1	
33	Blackwood Plateau	Karri Uplands	0	
34	Blackwood Plateau	Depressions / Swamps	0	M
35	Blackwood Plateau	Valleys	0	
36	Margaret River Plateau	Jarrah Uplands	0	
37	Margaret River Plateau	Karri Uplands	0	
38	Margaret River Plateau	Jarrah Valleys	0	
39	Margaret River Plateau	Karri Valleys	0	
40	Lewin Naturalist Coast	Jarrah	0	
41	Lewin Naturalist Coast	Marri/Karri	0	
42	Lewin Naturalist Coast	Coast Heath	1	
43	Scott Coastal Plain	Uplands	0	
44	Scott Coastal Plain	Valleys / Swamps	0	M
45	Redmond	Uplands	0	
46	Redmond	Valleys	0	M
47	Unicup	Jarrah Uplands	0	
48	Unicup	Wandoo Uplands	2	
49	Unicup	Jarrah Valleys	2	
50	Unicup	Wandoo Valleys	2	
51	Unicup	Scrubland	2	
53	Darling Plateau	Wandoo Uplands South	3	
54	Darling Plateau	Wandoo Valleys South	3	

## Appendix 2b

Fauna Habitat ID	FDIS LAND SYSTEM	FDIS LANDSCAPE UNIT	SCORE	Origin
Black-Backed Snake				
1	Darling Plateau	Jarrah Uplands North	0	
2	Darling Plateau	Jarrah Uplands East	0	
3	Darling Plateau	Jarrah Uplands South	0	
4	Darling Plateau	Jarrah Uplands South East	0	
5	Darling Plateau	Karri Uplands	0	
6	Darling Plateau	Wandoo Uplands North	0	
7	Darling Plateau	Powder Bark Uplands	0	
8	Darling Plateau	Scarp	0	
9	Darling Plateau	Depression / Swamps North	1	
10	Darling Plateau	Depressions / Swamps South	0	
11	Darling Plateau	Depressions / Swamps East	1	
12	Darling Plateau	Depressions / Swamps South East	0	
13	Darling Plateau	Jarrah Valleys North	2	
14	Darling Plateau	Jarrah Valleys East	2	
15	Darling Plateau	Jarrah Valleys South	0	
16	Darling Plateau	Jarrah Valleys South East	2	
17	Darling Plateau	Karri Valleys	0	
18	Darling Plateau	Wandoo Valleys North	2	
19	Darling Plateau	Powder Bark Wandoo Valleys	2	
20	Darling Plateau	Granite Outcrops	1	
21	Various Systems	Esturies / Open Water	0	
22	Collie Plain	Uplands	0	
23	Collie Plain	Depressions / Swamps	0	
24	Dandaragan Plateau	Uplands	2	
25	Dandaragan Plateau	Valleys	2	
26	Swan Coastal Plain	Uplands	2	
27	Swan Coastal Plain	Valleys	2	
28	Southern Plains	Jarrah	0	
29	Southern Plains	Karri	0	
30	Southern Plains	Heath / Sedgeland	0	
31	South Coast Dunes	South Coast Dunes	0	
32	Blackwood Plateau	Jarrah Uplands	1	M
33	Blackwood Plateau	Karri Uplands	0	
34	Blackwood Plateau	Depressions / Swamps	1	
35	Blackwood Plateau	Valleys	1	M
36	Margaret River Plateau	Jarrah Uplands	1	M
37	Margaret River Plateau	Karri Uplands	0	
38	Margaret River Plateau	Jarrah Valleys	1	
39	Margaret River Plateau	Karri Valleys	0	M
40	Lewin Naturalist Coast	Jarrah	1	
41	Lewin Naturalist Coast	Marri/Karri	0	
42	Lewin Naturalist Coast	Coast Heath	1	
43	Scott Coastal Plain	Uplands	0	
44	Scott Coastal Plain	Valleys / Swamps	0	
45	Redmond	Uplands	0	
46	Redmond	Valleys	0	
47	Unicup	Jarrah Uplands	0	
48	Unicup	Wandoo Uplands	0	
49	Unicup	Jarrah Valleys	0	
50	Unicup	Wandoo Valleys	0	
51	Unicup	Scrubland	0	
53	Darling Plateau	Wandoo Uplands South	0	
54	Darling Plateau	Wandoo Valleys South	2	

## Appendix 2b

Fauna Habitat ID	FDIS LAND SYSTEM	FDIS LANDSCAPE UNIT	SCORE	Origin
Jan's Banded Snake				
1	Darling Plateau	Jarrah Uplands North	0	M
2	Darling Plateau	Jarrah Uplands East	2	
3	Darling Plateau	Jarrah Uplands South	0	
4	Darling Plateau	Jarrah Uplands South East	0	
5	Darling Plateau	Karri Uplands	0	M
6	Darling Plateau	Wandoo Uplands North	1	
7	Darling Plateau	Powder Bark Uplands	1	
8	Darling Plateau	Scarp	0	
9	Darling Plateau	Depression / Swamps North	0	
10	Darling Plateau	Depressions / Swamps South	0	
11	Darling Plateau	Depressions / Swamps East	0	M
12	Darling Plateau	Depressions / Swamps South East	0	
13	Darling Plateau	Jarrah Valleys North	0	M
14	Darling Plateau	Jarrah Valleys East	1	
15	Darling Plateau	Jarrah Valleys South	0	
16	Darling Plateau	Jarrah Valleys South East	0	
17	Darling Plateau	Karri Valleys	0	
18	Darling Plateau	Wandoo Valleys North	1	
19	Darling Plateau	Powder Bark Wandoo Valleys	1	
20	Darling Plateau	Granite Outcrops	0	
21	Various Systems	Esturies / Open Water	0	
22	Collie Plain	Uplands	0	
23	Collie Plain	Depressions / Swamps	0	
24	Dandaragan Plateau	Uplands	2	
25	Dandaragan Plateau	Valleys	2	
26	Swan Coastal Plain	Uplands	2	
27	Swan Coastal Plain	Valleys	2	
28	Southern Plains	Jarrah	0	
29	Southern Plains	Karri	0	
30	Southern Plains	Heath / Sedgeland	0	
31	South Coast Dunes	South Coast Dunes	0	M
32	Blackwood Plateau	Jarrah Uplands	0	
33	Blackwood Plateau	Karri Uplands	0	
34	Blackwood Plateau	Depressions / Swamps	0	
35	Blackwood Plateau	Valleys	0	
36	Margaret River Plateau	Jarrah Uplands	0	
37	Margaret River Plateau	Karri Uplands	0	
38	Margaret River Plateau	Jarrah Valleys	0	
39	Margaret River Plateau	Karri Valleys	0	
40	Lewin Naturalist Coast	Jarrah	0	
41	Lewin Naturalist Coast	Marri/Karri	0	
42	Lewin Naturalist Coast	Coast Heath	0	
43	Scott Coastal Plain	Uplands	0	
44	Scott Coastal Plain	Valleys / Swamps	0	M
45	Redmond	Uplands	0	
46	Redmond	Valleys	0	
47	Unicup	Jarrah Uplands	0	
48	Unicup	Wandoo Uplands	0	
49	Unicup	Jarrah Valleys	0	
50	Unicup	Wandoo Valleys	0	
51	Unicup	Scrubland	0	
53	Darling Plateau	Wandoo Uplands South	0	
54	Darling Plateau	Wandoo Valleys South	0	

## Appendix 2b

Fauna Habitat ID	FDIS LAND SYSTEM	FDIS LANDSCAPE UNIT	SCORE	Origin
Black-Naped Snake				
1	Darling Plateau	Jarrah Uplands North	0	
2	Darling Plateau	Jarrah Uplands East	1	
3	Darling Plateau	Jarrah Uplands South	0	
4	Darling Plateau	Jarrah Uplands South East	0	
5	Darling Plateau	Karri Uplands	0	
6	Darling Plateau	Wandoo Uplands North	1	
7	Darling Plateau	Powder Bark Uplands	1	
8	Darling Plateau	Scarp	0	
9	Darling Plateau	Depression / Swamps North	0	
10	Darling Plateau	Depressions / Swamps South	0	
11	Darling Plateau	Depressions / Swamps East	0	
12	Darling Plateau	Depressions / Swamps South East	0	
13	Darling Plateau	Jarrah Valleys North	0	
14	Darling Plateau	Jarrah Valleys East	1	
15	Darling Plateau	Jarrah Valleys South	0	
16	Darling Plateau	Jarrah Valleys South East	0	
17	Darling Plateau	Karri Valleys	0	
18	Darling Plateau	Wandoo Valleys North	1	
19	Darling Plateau	Powder Bark Wandoo Valleys	1	
20	Darling Plateau	Granite Outcrops	0	
21	Various Systems	Esturies / Open Water	0	
22	Collie Plain	Uplands	0	
23	Collie Plain	Depressions / Swamps	0	
24	Dandaragan Plateau	Uplands	1	
25	Dandaragan Plateau	Valleys	1	
26	Swan Coastal Plain	Uplands	2	
27	Swan Coastal Plain	Valleys	2	
28	Southern Plains	Jarrah	0	
29	Southern Plains	Karri	0	
30	Southern Plains	Heath / Sedgeland	0	
31	South Coast Dunes	South Coast Dunes	0	
32	Blackwood Plateau	Jarrah Uplands	0	
33	Blackwood Plateau	Karri Uplands	0	
34	Blackwood Plateau	Depressions / Swamps	0	
35	Blackwood Plateau	Valleys	0	
36	Margaret River Plateau	Jarrah Uplands	0	
37	Margaret River Plateau	Karri Uplands	0	
38	Margaret River Plateau	Jarrah Valleys	0	
39	Margaret River Plateau	Karri Valleys	0	
40	Lewin Naturalist Coast	Jarrah	0	
41	Lewin Naturalist Coast	Marri/Karri	0	
42	Lewin Naturalist Coast	Coast Heath	0	
43	Scott Coastal Plain	Uplands	0	
44	Scott Coastal Plain	Valleys / Swamps	0	
45	Redmond	Uplands	0	
46	Redmond	Valleys	0	
47	Unicup	Jarrah Uplands	0	
48	Unicup	Wandoo Uplands	0	
49	Unicup	Jarrah Valleys	0	
50	Unicup	Wandoo Valleys	0	
51	Unicup	Scrubland	0	
53	Darling Plateau	Wandoo Uplands South	0	
54	Darling Plateau	Wandoo Valleys South	0	

## Appendix 2b

Fauna Habitat ID	FDIS LAND SYSTEM	FDIS LANDSCAPE UNIT	SCORE	Origin
Southern Shovel-Nosed Snake				
1	Darling Plateau	Jarrah Uplands North	0	
2	Darling Plateau	Jarrah Uplands East	0	
3	Darling Plateau	Jarrah Uplands South	0	
4	Darling Plateau	Jarrah Uplands South East	0	
5	Darling Plateau	Karri Uplands	0	
6	Darling Plateau	Wandoo Uplands North	0	
7	Darling Plateau	Powder Bark Uplands	0	
8	Darling Plateau	Scarp	0	
9	Darling Plateau	Depression / Swamps North	0	
10	Darling Plateau	Depressions / Swamps South	0	
11	Darling Plateau	Depressions / Swamps East	0	
12	Darling Plateau	Depressions / Swamps South East	0	
13	Darling Plateau	Jarrah Valleys North	0	
14	Darling Plateau	Jarrah Valleys East	0	
15	Darling Plateau	Jarrah Valleys South	0	
16	Darling Plateau	Jarrah Valleys South East	0	
17	Darling Plateau	Karri Valleys	0	
18	Darling Plateau	Wandoo Valleys North	0	
19	Darling Plateau	Powder Bark Wandoo Valleys	0	
20	Darling Plateau	Granite Outcrops	0	
21	Various Systems	Esturies / Open Water	0	
22	Collie Plain	Uplands	0	
23	Collie Plain	Depressions / Swamps	0	
24	Dandaragan Plateau	Uplands	0	
25	Dandaragan Plateau	Valleys	0	
26	Swan Coastal Plain	Uplands	1	
27	Swan Coastal Plain	Valleys	1	
28	Southern Plains	Jarrah	0	
29	Southern Plains	Karri	0	
30	Southern Plains	Heath / Sedgeland	0	
31	South Coast Dunes	South Coast Dunes	0	
32	Blackwood Plateau	Jarrah Uplands	0	
33	Blackwood Plateau	Karri Uplands	0	
34	Blackwood Plateau	Depressions / Swamps	0	
35	Blackwood Plateau	Valleys	0	
36	Margaret River Plateau	Jarrah Uplands	0	
37	Margaret River Plateau	Karri Uplands	0	
38	Margaret River Plateau	Jarrah Valleys	0	
39	Margaret River Plateau	Karri Valleys	0	
40	Lewin Naturalist Coast	Jarrah	0	
41	Lewin Naturalist Coast	Marri/Karri	0	
42	Lewin Naturalist Coast	Coast Heath	0	
43	Scott Coastal Plain	Uplands	0	
44	Scott Coastal Plain	Valleys / Swamps	0	
45	Redmond	Uplands	0	
46	Redmond	Valleys	0	
47	Unicup	Jarrah Uplands	0	
48	Unicup	Wandoo Uplands	0	
49	Unicup	Jarrah Valleys	0	
50	Unicup	Wandoo Valleys	0	
51	Unicup	Scrubland	0	
53	Darling Plateau	Wandoo Uplands South	0	
54	Darling Plateau	Wandoo Valleys South	0	



## Appendix 2b

Fauna Habitat ID	FDIS LAND SYSTEM	FDIS LANDSCAPE UNIT	SCORE	Origin
Quacking Frog				
1	Darling Plateau	Jarrah Uplands North	2	
2	Darling Plateau	Jarrah Uplands East	2	
3	Darling Plateau	Jarrah Uplands South	3	
4	Darling Plateau	Jarrah Uplands South East	3	
5	Darling Plateau	Karri Uplands	3	
6	Darling Plateau	Wandoo Uplands North	0	
7	Darling Plateau	Powder Bark Uplands	1	
8	Darling Plateau	Scarp	3	
9	Darling Plateau	Depression / Swamps North	3	
10	Darling Plateau	Depressions / Swamps South	3	
11	Darling Plateau	Depressions / Swamps East	3	
12	Darling Plateau	Depressions / Swamps South East	3	
13	Darling Plateau	Jarrah Valleys North	3	
14	Darling Plateau	Jarrah Valleys East	2	
15	Darling Plateau	Jarrah Valleys South	3	
16	Darling Plateau	Jarrah Valleys South East	3	
17	Darling Plateau	Karri Valleys	3	
18	Darling Plateau	Wandoo Valleys North	0	
19	Darling Plateau	Powder Bark Wandoo Valleys	2	
20	Darling Plateau	Granite Outcrops	2	
21	Various Systems	Esturies / Open Water	3	
22	Collie Plain	Uplands	3	
23	Collie Plain	Depressions / Swamps	3	
24	Dandaragan Plateau	Uplands	1	
25	Dandaragan Plateau	Valleys	1	
26	Swan Coastal Plain	Uplands	3	
27	Swan Coastal Plain	Valleys	3	
28	Southern Plains	Jarrah	3	
29	Southern Plains	Karri	3	
30	Southern Plains	Heath / Sedgeland	3	
31	South Coast Dunes	South Coast Dunes	3	
32	Blackwood Plateau	Jarrah Uplands	2	
33	Blackwood Plateau	Karri Uplands	2	
34	Blackwood Plateau	Depressions / Swamps	3	
35	Blackwood Plateau	Valleys	3	
36	Margaret River Plateau	Jarrah Uplands	2	
37	Margaret River Plateau	Karri Uplands	2	
38	Margaret River Plateau	Jarrah Valleys	3	
39	Margaret River Plateau	Karri Valleys	3	
40	Lewin Naturalist Coast	Jarrah	2	
41	Lewin Naturalist Coast	Marri/Karri	3	
42	Lewin Naturalist Coast	Coast Heath	3	
43	Scott Coastal Plain	Uplands	3	
44	Scott Coastal Plain	Valleys / Swamps	3	
45	Redmond	Uplands	3	
46	Redmond	Valleys	3	
47	Unicup	Jarrah Uplands	2	
48	Unicup	Wandoo Uplands	2	
49	Unicup	Jarrah Valleys	2	
50	Unicup	Wandoo Valleys	2	
51	Unicup	Scrubland	2	
53	Darling Plateau	Wandoo Uplands South	1	
54	Darling Plateau	Wandoo Valleys South	2	

## Appendix 2b

Fauna Habitat ID	FDIS LAND SYSTEM	FDIS LANDSCAPE UNIT	SCORE	Origin
White-bellied Frog				
1	Darling Plateau	Jarrah Uplands North	0	
2	Darling Plateau	Jarrah Uplands East	0	
3	Darling Plateau	Jarrah Uplands South	0	
4	Darling Plateau	Jarrah Uplands South East	0	
5	Darling Plateau	Karri Uplands	0	
6	Darling Plateau	Wandoo Uplands North	0	
7	Darling Plateau	Powder Bark Uplands	0	
8	Darling Plateau	Scarp	0	
9	Darling Plateau	Depression / Swamps North	0	
10	Darling Plateau	Depressions / Swamps South	0	
11	Darling Plateau	Depressions / Swamps East	0	
12	Darling Plateau	Depressions / Swamps South East	0	
13	Darling Plateau	Jarrah Valleys North	0	
14	Darling Plateau	Jarrah Valleys East	0	
15	Darling Plateau	Jarrah Valleys South	0	
16	Darling Plateau	Jarrah Valleys South East	0	
17	Darling Plateau	Karri Valleys	0	
18	Darling Plateau	Wandoo Valleys North	0	
19	Darling Plateau	Powder Bark Wandoo Valleys	0	
20	Darling Plateau	Granite Outcrops	0	
21	Various Systems	Esturies / Open Water	0	
22	Collie Plain	Uplands	0	
23	Collie Plain	Depressions / Swamps	0	
24	Dandaragan Plateau	Uplands	0	
25	Dandaragan Plateau	Valleys	0	
26	Swan Coastal Plain	Uplands	0	
27	Swan Coastal Plain	Valleys	0	
28	Southern Plains	Jarrah	0	
29	Southern Plains	Karri	0	
30	Southern Plains	Heath / Sedgeland	0	
31	South Coast Dunes	South Coast Dunes	0	
32	Blackwood Plateau	Jarrah Uplands	1	
33	Blackwood Plateau	Karri Uplands	0	
34	Blackwood Plateau	Depressions / Swamps	0	
35	Blackwood Plateau	Valleys	3	
36	Margaret River Plateau	Jarrah Uplands	1	
37	Margaret River Plateau	Karri Uplands	0	
38	Margaret River Plateau	Jarrah Valleys	3	
39	Margaret River Plateau	Karri Valleys	2	
40	Lewin Naturalist Coast	Jarrah	0	
41	Lewin Naturalist Coast	Marri/Karri	0	
42	Lewin Naturalist Coast	Coast Heath	0	
43	Scott Coastal Plain	Uplands	0	
44	Scott Coastal Plain	Valleys / Swamps	0	
45	Redmond	Uplands	0	
46	Redmond	Valleys	0	
47	Unicup	Jarrah Uplands	0	
48	Unicup	Wandoo Uplands	0	
49	Unicup	Jarrah Valleys	0	
50	Unicup	Wandoo Valleys	0	
51	Unicup	Scrubland	0	
53	Darling Plateau	Wandoo Uplands South	0	
54	Darling Plateau	Wandoo Valleys South	0	

## Appendix 2b

Fauna Habitat ID	FDIS LAND SYSTEM	FDIS LANDSCAPE UNIT	SCORE	Origin
Lea's Frog				
1	Darling Plateau	Jarrah Uplands North	1	
2	Darling Plateau	Jarrah Uplands East	0	M
3	Darling Plateau	Jarrah Uplands South	0	
4	Darling Plateau	Jarrah Uplands South East	0	
5	Darling Plateau	Karri Uplands	1	
6	Darling Plateau	Wandoo Uplands North	0	
7	Darling Plateau	Powder Bark Uplands	0	
8	Darling Plateau	Scarp	0	
9	Darling Plateau	Depression / Swamps North	3	
10	Darling Plateau	Depressions / Swamps South	3	
11	Darling Plateau	Depressions / Swamps East	3	
12	Darling Plateau	Depressions / Swamps South East	3	
13	Darling Plateau	Jarrah Valleys North	3	
14	Darling Plateau	Jarrah Valleys East	0	
15	Darling Plateau	Jarrah Valleys South	0	
16	Darling Plateau	Jarrah Valleys South East	0	
17	Darling Plateau	Karri Valleys	3	
18	Darling Plateau	Wandoo Valleys North	0	M?
19	Darling Plateau	Powder Bark Wandoo Valleys	0	
20	Darling Plateau	Granite Outcrops	0	
21	Various Systems	Esturies / Open Water	2	
22	Collie Plain	Uplands	0	
23	Collie Plain	Depressions / Swamps	0	
24	Dandaragan Plateau	Uplands	0	
25	Dandaragan Plateau	Valleys	0	
26	Swan Coastal Plain	Uplands	0	
27	Swan Coastal Plain	Valleys	3	
28	Southern Plains	Jarrah	0	
29	Southern Plains	Karri	0	
30	Southern Plains	Heath / Sedgeland	2	
31	South Coast Dunes	South Coast Dunes	3	
32	Blackwood Plateau	Jarrah Uplands	0	
33	Blackwood Plateau	Karri Uplands	0	
34	Blackwood Plateau	Depressions / Swamps	3	
35	Blackwood Plateau	Valleys	3	
36	Margaret River Plateau	Jarrah Uplands	0	
37	Margaret River Plateau	Karri Uplands	0	
38	Margaret River Plateau	Jarrah Valleys	3	
39	Margaret River Plateau	Karri Valleys	3	
40	Lewin Naturalist Coast	Jarrah	0	
41	Lewin Naturalist Coast	Marri/Karri	0	
42	Lewin Naturalist Coast	Coast Heath	3	
43	Scott Coastal Plain	Uplands	0	
44	Scott Coastal Plain	Valleys / Swamps	3	
45	Redmond	Uplands	0	
46	Redmond	Valleys	3	
47	Unicup	Jarrah Uplands	0	
48	Unicup	Wandoo Uplands	0	
49	Unicup	Jarrah Valleys	0	
50	Unicup	Wandoo Valleys	0	
51	Unicup	Scrubland	0	
53	Darling Plateau	Wandoo Uplands South	0	
54	Darling Plateau	Wandoo Valleys South	0	

## Appendix 2b

Fauna Habitat ID	FDIS LAND SYSTEM	FDIS LANDSCAPE UNIT	SCORE	Origin
Nornalup Frog				
1	Darling Plateau	Jarrah Uplands North	0	
2	Darling Plateau	Jarrah Uplands East	0	
3	Darling Plateau	Jarrah Uplands South	0	
4	Darling Plateau	Jarrah Uplands South East	0	
5	Darling Plateau	Karri Uplands	0	
6	Darling Plateau	Wandoo Uplands North	0	
7	Darling Plateau	Powder Bark Uplands	0	
8	Darling Plateau	Scarp	0	
9	Darling Plateau	Depression / Swamps North	0	
10	Darling Plateau	Depressions / Swamps South	0	
11	Darling Plateau	Depressions / Swamps East	0	
12	Darling Plateau	Depressions / Swamps South East	0	
13	Darling Plateau	Jarrah Valleys North	0	
14	Darling Plateau	Jarrah Valleys East	0	
15	Darling Plateau	Jarrah Valleys South	0	
16	Darling Plateau	Jarrah Valleys South East	0	
17	Darling Plateau	Karri Valleys	0	
18	Darling Plateau	Wandoo Valleys North	0	
19	Darling Plateau	Powder Bark Wandoo Valleys	0	
20	Darling Plateau	Granite Outcrops	0	
21	Various Systems	Esturies / Open Water	0	
22	Collie Plain	Uplands	0	
23	Collie Plain	Depressions / Swamps	0	
24	Dandaragan Plateau	Uplands	0	
25	Dandaragan Plateau	Valleys	0	
26	Swan Coastal Plain	Uplands	0	
27	Swan Coastal Plain	Valleys	0	
28	Southern Plains	Jarrah	0	
29	Southern Plains	Karri	0	
30	Southern Plains	Heath / Sedgeland	3	
31	South Coast Dunes	South Coast Dunes	0	
32	Blackwood Plateau	Jarrah Uplands	0	
33	Blackwood Plateau	Karri Uplands	0	
34	Blackwood Plateau	Depressions / Swamps	0	
35	Blackwood Plateau	Valleys	0	
36	Margaret River Plateau	Jarrah Uplands	0	
37	Margaret River Plateau	Karri Uplands	0	
38	Margaret River Plateau	Jarrah Valleys	0	
39	Margaret River Plateau	Karri Valleys	0	
40	Lewin Naturalist Coast	Jarrah	0	
41	Lewin Naturalist Coast	Marri/Karri	0	
42	Lewin Naturalist Coast	Coast Heath	0	
43	Scott Coastal Plain	Uplands	0	
44	Scott Coastal Plain	Valleys / Swamps	0	
45	Redmond	Uplands	0	
46	Redmond	Valleys	0	
47	Unicup	Jarrah Uplands	0	
48	Unicup	Wandoo Uplands	0	
49	Unicup	Jarrah Valleys	0	
50	Unicup	Wandoo Valleys	0	
51	Unicup	Scrubland	0	
53	Darling Plateau	Wandoo Uplands South	0	
54	Darling Plateau	Wandoo Valleys South	0	

## Appendix 2b

Fauna Habitat ID	FDIS LAND SYSTEM	FDIS LANDSCAPE UNIT	SCORE	Origin
Roseate Frog				
1	Darling Plateau	Jarrah Uplands North	0	M
2	Darling Plateau	Jarrah Uplands East	0	
3	Darling Plateau	Jarrah Uplands South	0	
4	Darling Plateau	Jarrah Uplands South East	0	
5	Darling Plateau	Karri Uplands	0	
6	Darling Plateau	Wandoo Uplands North	0	
7	Darling Plateau	Powder Bark Uplands	0	
8	Darling Plateau	Scarp	0	
9	Darling Plateau	Depression / Swamps North	0	
10	Darling Plateau	Depressions / Swamps South	0	
11	Darling Plateau	Depressions / Swamps East	0	M
12	Darling Plateau	Depressions / Swamps South East	0	
13	Darling Plateau	Jarrah Valleys North	0	M
14	Darling Plateau	Jarrah Valleys East	0	
15	Darling Plateau	Jarrah Valleys South	0	
16	Darling Plateau	Jarrah Valleys South East	0	
17	Darling Plateau	Karri Valleys	3	
18	Darling Plateau	Wandoo Valleys North	0	
19	Darling Plateau	Powder Bark Wandoo Valleys	0	
20	Darling Plateau	Granite Outcrops	0	
21	Various Systems	Esturies / Open Water	0	
22	Collie Plain	Uplands	0	
23	Collie Plain	Depressions / Swamps	0	
24	Dandaragan Plateau	Uplands	0	
25	Dandaragan Plateau	Valleys	0	
26	Swan Coastal Plain	Uplands	0	
27	Swan Coastal Plain	Valleys	0	
28	Southern Plains	Jarrah	0	
29	Southern Plains	Karri	1	
30	Southern Plains	Heath / Sedgeland	0	
31	South Coast Dunes	South Coast Dunes	0	
32	Blackwood Plateau	Jarrah Uplands	0	
33	Blackwood Plateau	Karri Uplands	0	
34	Blackwood Plateau	Depressions / Swamps	0	
35	Blackwood Plateau	Valleys	0	
36	Margaret River Plateau	Jarrah Uplands	0	
37	Margaret River Plateau	Karri Uplands	0	
38	Margaret River Plateau	Jarrah Valleys	0	
39	Margaret River Plateau	Karri Valleys	0	
40	Lewin Naturalist Coast	Jarrah	0	
41	Lewin Naturalist Coast	Marri/Karri	0	
42	Lewin Naturalist Coast	Coast Heath	0	
43	Scott Coastal Plain	Uplands	0	
44	Scott Coastal Plain	Valleys / Swamps	0	
45	Redmond	Uplands	0	
46	Redmond	Valleys	0	
47	Unicup	Jarrah Uplands	0	
48	Unicup	Wandoo Uplands	0	
49	Unicup	Jarrah Valleys	0	
50	Unicup	Wandoo Valleys	0	
51	Unicup	Scrubland	0	
53	Darling Plateau	Wandoo Uplands South	0	
54	Darling Plateau	Wandoo Valleys South	0	

## Appendix 2b

Fauna Habitat ID	FDIS LAND SYSTEM	FDIS LANDSCAPE UNIT	SCORE	Origin
Orange-bellied Frog				
1	Darling Plateau	Jarrah Uplands North	0	
2	Darling Plateau	Jarrah Uplands East	0	M
3	Darling Plateau	Jarrah Uplands South	0	
4	Darling Plateau	Jarrah Uplands South East	0	
5	Darling Plateau	Karri Uplands	0	M
6	Darling Plateau	Wandoo Uplands North	0	
7	Darling Plateau	Powder Bark Uplands	0	
8	Darling Plateau	Scarp	0	
9	Darling Plateau	Depression / Swamps North	0	
10	Darling Plateau	Depressions / Swamps South	0	
11	Darling Plateau	Depressions / Swamps East	0	
12	Darling Plateau	Depressions / Swamps South East	0	
13	Darling Plateau	Jarrah Valleys North	0	
14	Darling Plateau	Jarrah Valleys East	0	
15	Darling Plateau	Jarrah Valleys South	0	
16	Darling Plateau	Jarrah Valleys South East	0	
17	Darling Plateau	Karri Valleys	0	
18	Darling Plateau	Wandoo Valleys North	0	M?
19	Darling Plateau	Powder Bark Wandoo Valleys	0	
20	Darling Plateau	Granite Outcrops	0	
21	Various Systems	Esturies / Open Water	0	
22	Collie Plain	Uplands	0	
23	Collie Plain	Depressions / Swamps	0	
24	Dandaragan Plateau	Uplands	0	
25	Dandaragan Plateau	Valleys	0	
26	Swan Coastal Plain	Uplands	0	
27	Swan Coastal Plain	Valleys	0	
28	Southern Plains	Jarrah	0	
29	Southern Plains	Karri	0	
30	Southern Plains	Heath / Sedgeland	0	M
31	South Coast Dunes	South Coast Dunes	0	
32	Blackwood Plateau	Jarrah Uplands	0	
33	Blackwood Plateau	Karri Uplands	0	
34	Blackwood Plateau	Depressions / Swamps	3	
35	Blackwood Plateau	Valleys	3	
36	Margaret River Plateau	Jarrah Uplands	0	
37	Margaret River Plateau	Karri Uplands	0	
38	Margaret River Plateau	Jarrah Valleys	0	
39	Margaret River Plateau	Karri Valleys	0	
40	Lewin Naturalist Coast	Jarrah	0	
41	Lewin Naturalist Coast	Marri/Karri	0	
42	Lewin Naturalist Coast	Coast Heath	0	
43	Scott Coastal Plain	Uplands	0	
44	Scott Coastal Plain	Valleys / Swamps	0	
45	Redmond	Uplands	0	
46	Redmond	Valleys	3	
47	Unicup	Jarrah Uplands	0	
48	Unicup	Wandoo Uplands	0	
49	Unicup	Jarrah Valleys	0	
50	Unicup	Wandoo Valleys	0	
51	Unicup	Scrubland	0	
53	Darling Plateau	Wandoo Uplands South	0	
54	Darling Plateau	Wandoo Valleys South	0	

## Appendix 2b

Fauna Habitat ID	FDIS LAND SYSTEM	FDIS LANDSCAPE UNIT	SCORE	Origin
Western Spotted Frog				
1	Darling Plateau	Jarrah Uplands North	0	M
2	Darling Plateau	Jarrah Uplands East	0	M
3	Darling Plateau	Jarrah Uplands South	0	
4	Darling Plateau	Jarrah Uplands South East	0	
5	Darling Plateau	Karri Uplands	0	
6	Darling Plateau	Wandoo Uplands North	1	
7	Darling Plateau	Powder Bark Uplands	0	
8	Darling Plateau	Scarp	0	
9	Darling Plateau	Depression / Swamps North	0	
10	Darling Plateau	Depressions / Swamps South	0	
11	Darling Plateau	Depressions / Swamps East	1	M
12	Darling Plateau	Depressions / Swamps South East	0	
13	Darling Plateau	Jarrah Valleys North	0	
14	Darling Plateau	Jarrah Valleys East	1	
15	Darling Plateau	Jarrah Valleys South	0	
16	Darling Plateau	Jarrah Valleys South East	0	
17	Darling Plateau	Karri Valleys	0	M
18	Darling Plateau	Wandoo Valleys North	1	M?
19	Darling Plateau	Powder Bark Wandoo Valleys	2	
20	Darling Plateau	Granite Outcrops	0	M
21	Various Systems	Esturies / Open Water	0	
22	Collie Plain	Uplands	0	
23	Collie Plain	Depressions / Swamps	0	
24	Dandaragan Plateau	Uplands	0	
25	Dandaragan Plateau	Valleys	2	
26	Swan Coastal Plain	Uplands	0	
27	Swan Coastal Plain	Valleys	2	
28	Southern Plains	Jarrah	0	
29	Southern Plains	Karri	0	
30	Southern Plains	Heath / Sedgeland	0	
31	South Coast Dunes	South Coast Dunes	0	M
32	Blackwood Plateau	Jarrah Uplands	0	
33	Blackwood Plateau	Karri Uplands	0	
34	Blackwood Plateau	Depressions / Swamps	0	
35	Blackwood Plateau	Valleys	0	
36	Margaret River Plateau	Jarrah Uplands	0	M
37	Margaret River Plateau	Karri Uplands	0	
38	Margaret River Plateau	Jarrah Valleys	0	
39	Margaret River Plateau	Karri Valleys	0	
40	Lewin Naturalist Coast	Jarrah	0	
41	Lewin Naturalist Coast	Marri/Karri	0	M
42	Lewin Naturalist Coast	Coast Heath	0	
43	Scott Coastal Plain	Uplands	0	
44	Scott Coastal Plain	Valleys / Swamps	0	
45	Redmond	Uplands	0	M
46	Redmond	Valleys	0	
47	Unicup	Jarrah Uplands	0	
48	Unicup	Wandoo Uplands	0	
49	Unicup	Jarrah Valleys	0	
50	Unicup	Wandoo Valleys	0	
51	Unicup	Scrubland	0	
53	Darling Plateau	Wandoo Uplands South	0	
54	Darling Plateau	Wandoo Valleys South	0	

## Appendix 2b

Fauna Habitat ID	FDIS LAND SYSTEM	FDIS LANDSCAPE UNIT	SCORE	Origin
Western Marsh Frog				
1	Darling Plateau	Jarrah Uplands North	0	
2	Darling Plateau	Jarrah Uplands East	1	
3	Darling Plateau	Jarrah Uplands South	0	
4	Darling Plateau	Jarrah Uplands South East	0	
5	Darling Plateau	Karri Uplands	0	M
6	Darling Plateau	Wandoo Uplands North	0	
7	Darling Plateau	Powder Bark Uplands	0	
8	Darling Plateau	Scarp	0	
9	Darling Plateau	Depression / Swamps North	0	
10	Darling Plateau	Depressions / Swamps South	0	
11	Darling Plateau	Depressions / Swamps East	0	
12	Darling Plateau	Depressions / Swamps South East	0	
13	Darling Plateau	Jarrah Valleys North	1	M
14	Darling Plateau	Jarrah Valleys East	1	
15	Darling Plateau	Jarrah Valleys South	0	
16	Darling Plateau	Jarrah Valleys South East	0	
17	Darling Plateau	Karri Valleys	0	
18	Darling Plateau	Wandoo Valleys North	1	M?
19	Darling Plateau	Powder Bark Wandoo Valleys	1	
20	Darling Plateau	Granite Outcrops	0	
21	Various Systems	Esturies / Open Water	0	
22	Collie Plain	Uplands	0	
23	Collie Plain	Depressions / Swamps	0	
24	Dandaragan Plateau	Uplands	0	
25	Dandaragan Plateau	Valleys	1	
26	Swan Coastal Plain	Uplands	0	
27	Swan Coastal Plain	Valleys	0	
28	Southern Plains	Jarrah	0	
29	Southern Plains	Karri	0	
30	Southern Plains	Heath / Sedgeland	0	
31	South Coast Dunes	South Coast Dunes	0	
32	Blackwood Plateau	Jarrah Uplands	0	
33	Blackwood Plateau	Karri Uplands	0	
34	Blackwood Plateau	Depressions / Swamps	0	
35	Blackwood Plateau	Valleys	0	
36	Margaret River Plateau	Jarrah Uplands	0	
37	Margaret River Plateau	Karri Uplands	0	
38	Margaret River Plateau	Jarrah Valleys	0	
39	Margaret River Plateau	Karri Valleys	0	
40	Lewin Naturalist Coast	Jarrah	0	
41	Lewin Naturalist Coast	Marri/Karri	0	
42	Lewin Naturalist Coast	Coast Heath	0	
43	Scott Coastal Plain	Uplands	0	
44	Scott Coastal Plain	Valleys / Swamps	0	M
45	Redmond	Uplands	0	M
46	Redmond	Valleys	0	
47	Unicup	Jarrah Uplands	0	
48	Unicup	Wandoo Uplands	0	
49	Unicup	Jarrah Valleys	0	
50	Unicup	Wandoo Valleys	0	
51	Unicup	Scrubland	0	
53	Darling Plateau	Wandoo Uplands South	0	
54	Darling Plateau	Wandoo Valleys South	0	



## Appendix 2b

Fauna Habitat ID	FDIS LAND SYSTEM	FDIS LANDSCAPE UNIT	SCORE	Origin
Moaning Frog				
1	Darling Plateau	Jarrah Uplands North	1	
2	Darling Plateau	Jarrah Uplands East	1	M
3	Darling Plateau	Jarrah Uplands South	2	
4	Darling Plateau	Jarrah Uplands South East	2	
5	Darling Plateau	Karri Uplands	0	M
6	Darling Plateau	Wandoo Uplands North	0	
7	Darling Plateau	Powder Bark Uplands	0	
8	Darling Plateau	Scarp	1	
9	Darling Plateau	Depression / Swamps North	3	
10	Darling Plateau	Depressions / Swamps South	3	
11	Darling Plateau	Depressions / Swamps East	3	
12	Darling Plateau	Depressions / Swamps South East	3	
13	Darling Plateau	Jarrah Valleys North	3	M
14	Darling Plateau	Jarrah Valleys East	2	
15	Darling Plateau	Jarrah Valleys South	3	
16	Darling Plateau	Jarrah Valleys South East	3	
17	Darling Plateau	Karri Valleys	0	
18	Darling Plateau	Wandoo Valleys North	1	M?
19	Darling Plateau	Powder Bark Wandoo Valleys	1	
20	Darling Plateau	Granite Outcrops	0	
21	Various Systems	Esturies / Open Water	0	
22	Collie Plain	Uplands	1	
23	Collie Plain	Depressions / Swamps	2	
24	Dandaragan Plateau	Uplands	1	
25	Dandaragan Plateau	Valleys	2	
26	Swan Coastal Plain	Uplands	3	
27	Swan Coastal Plain	Valleys	3	
28	Southern Plains	Jarrah	3	
29	Southern Plains	Karri	0	
30	Southern Plains	Heath / Sedgeland	3	M
31	South Coast Dunes	South Coast Dunes	3	
32	Blackwood Plateau	Jarrah Uplands	2	
33	Blackwood Plateau	Karri Uplands	0	
34	Blackwood Plateau	Depressions / Swamps	3	
35	Blackwood Plateau	Valleys	3	
36	Margaret River Plateau	Jarrah Uplands	2	
37	Margaret River Plateau	Karri Uplands	0	
38	Margaret River Plateau	Jarrah Valleys	3	
39	Margaret River Plateau	Karri Valleys	0	M
40	Lewin Naturalist Coast	Jarrah	2	
41	Lewin Naturalist Coast	Marri/Karri	0	
42	Lewin Naturalist Coast	Coast Heath	3	
43	Scott Coastal Plain	Uplands	3	
44	Scott Coastal Plain	Valleys / Swamps	3	
45	Redmond	Uplands	2	M
46	Redmond	Valleys	3	
47	Unicup	Jarrah Uplands	1	
48	Unicup	Wandoo Uplands	0	
49	Unicup	Jarrah Valleys	2	
50	Unicup	Wandoo Valleys	2	
51	Unicup	Scrubland	2	
53	Darling Plateau	Wandoo Uplands South	2	
54	Darling Plateau	Wandoo Valleys South	2	

## Appendix 2b

Fauna Habitat ID	FDIS LAND SYSTEM	FDIS LANDSCAPE UNIT	SCORE	Origin
Plain Frog (Burrowing Frog)				
1	Darling Plateau	Jarrah Uplands North	1	
2	Darling Plateau	Jarrah Uplands East	0	
3	Darling Plateau	Jarrah Uplands South	0	
4	Darling Plateau	Jarrah Uplands South East	0	
5	Darling Plateau	Karri Uplands	0	
6	Darling Plateau	Wandoo Uplands North	0	
7	Darling Plateau	Powder Bark Uplands	0	
8	Darling Plateau	Scarp	0	
9	Darling Plateau	Depression / Swamps North	2	
10	Darling Plateau	Depressions / Swamps South	0	
11	Darling Plateau	Depressions / Swamps East	1	
12	Darling Plateau	Depressions / Swamps South East	3	
13	Darling Plateau	Jarrah Valleys North	1	
14	Darling Plateau	Jarrah Valleys East	0	
15	Darling Plateau	Jarrah Valleys South	0	
16	Darling Plateau	Jarrah Valleys South East	0	
17	Darling Plateau	Karri Valleys	0	
18	Darling Plateau	Wandoo Valleys North	0	
19	Darling Plateau	Powder Bark Wandoo Valleys	0	
20	Darling Plateau	Granite Outcrops	0	
21	Various Systems	Esturies / Open Water	0	
22	Collie Plain	Uplands	0	
23	Collie Plain	Depressions / Swamps	0	
24	Dandaragan Plateau	Uplands	0	
25	Dandaragan Plateau	Valleys	0	
26	Swan Coastal Plain	Uplands	0	
27	Swan Coastal Plain	Valleys	2	
28	Southern Plains	Jarrah	3	
29	Southern Plains	Karri	0	
30	Southern Plains	Heath / Sedgeland	3	
31	South Coast Dunes	South Coast Dunes	3	
32	Blackwood Plateau	Jarrah Uplands	0	
33	Blackwood Plateau	Karri Uplands	0	
34	Blackwood Plateau	Depressions / Swamps	3	
35	Blackwood Plateau	Valleys	0	
36	Margaret River Plateau	Jarrah Uplands	0	
37	Margaret River Plateau	Karri Uplands	0	
38	Margaret River Plateau	Jarrah Valleys	0	
39	Margaret River Plateau	Karri Valleys	0	
40	Lewin Naturalist Coast	Jarrah	0	
41	Lewin Naturalist Coast	Marri/Karri	0	
42	Lewin Naturalist Coast	Coast Heath	3	
43	Scott Coastal Plain	Uplands	0	
44	Scott Coastal Plain	Valleys / Swamps	0	
45	Redmond	Uplands	0	
46	Redmond	Valleys	3	
47	Unicup	Jarrah Uplands	0	
48	Unicup	Wandoo Uplands	0	
49	Unicup	Jarrah Valleys	0	
50	Unicup	Wandoo Valleys	0	
51	Unicup	Scrubland	0	
53	Darling Plateau	Wandoo Uplands South	0	
54	Darling Plateau	Wandoo Valleys South	0	

## Appendix 2b

Fauna Habitat ID	FDIS LAND SYSTEM	FDIS LANDSCAPE UNIT	SCORE	Origin
Sand Frog				
1	Darling Plateau	Jarrah Uplands North	0	
2	Darling Plateau	Jarrah Uplands East	1	
3	Darling Plateau	Jarrah Uplands South	0	
4	Darling Plateau	Jarrah Uplands South East	0	
5	Darling Plateau	Karri Uplands	1	
6	Darling Plateau	Wandoo Uplands North	0	
7	Darling Plateau	Powder Bark Uplands	0	
8	Darling Plateau	Scarp	0	
9	Darling Plateau	Depression / Swamps North	3	
10	Darling Plateau	Depressions / Swamps South	1	
11	Darling Plateau	Depressions / Swamps East	3	
12	Darling Plateau	Depressions / Swamps South East	0	
13	Darling Plateau	Jarrah Valleys North	1	
14	Darling Plateau	Jarrah Valleys East	2	
15	Darling Plateau	Jarrah Valleys South	0	
16	Darling Plateau	Jarrah Valleys South East	0	
17	Darling Plateau	Karri Valleys	0	
18	Darling Plateau	Wandoo Valleys North	2	M?
19	Darling Plateau	Powder Bark Wandoo Valleys	3	
20	Darling Plateau	Granite Outcrops	0	
21	Various Systems	Esturies / Open Water	0	
22	Collie Plain	Uplands	0	
23	Collie Plain	Depressions / Swamps	0	
24	Dandaragan Plateau	Uplands	0	
25	Dandaragan Plateau	Valleys	1	
26	Swan Coastal Plain	Uplands	0	
27	Swan Coastal Plain	Valleys	3	
28	Southern Plains	Jarrah	2	
29	Southern Plains	Karri	0	
30	Southern Plains	Heath / Sedgeland	2	
31	South Coast Dunes	South Coast Dunes	2	
32	Blackwood Plateau	Jarrah Uplands	0	
33	Blackwood Plateau	Karri Uplands	0	
34	Blackwood Plateau	Depressions / Swamps	0	
35	Blackwood Plateau	Valleys	0	
36	Margaret River Plateau	Jarrah Uplands	0	
37	Margaret River Plateau	Karri Uplands	0	
38	Margaret River Plateau	Jarrah Valleys	1	
39	Margaret River Plateau	Karri Valleys	0	
40	Lewin Naturalist Coast	Jarrah	0	
41	Lewin Naturalist Coast	Marri/Karri	0	
42	Lewin Naturalist Coast	Coast Heath	2	
43	Scott Coastal Plain	Uplands	0	
44	Scott Coastal Plain	Valleys / Swamps	1	
45	Redmond	Uplands	0	
46	Redmond	Valleys	1	
47	Unicup	Jarrah Uplands	0	
48	Unicup	Wandoo Uplands	0	
49	Unicup	Jarrah Valleys	0	
50	Unicup	Wandoo Valleys	0	
51	Unicup	Scrubland	0	
53	Darling Plateau	Wandoo Uplands South	0	
54	Darling Plateau	Wandoo Valleys South	1	

## Appendix 2b

Fauna Habitat ID	FDIS LAND SYSTEM	FDIS LANDSCAPE UNIT	SCORE	Origin
Western Bell (or Motorbike) Frog				
1	Darling Plateau	Jarrah Uplands North	1	
2	Darling Plateau	Jarrah Uplands East	1	
3	Darling Plateau	Jarrah Uplands South	0	
4	Darling Plateau	Jarrah Uplands South East	0	
5	Darling Plateau	Karri Uplands	0	
6	Darling Plateau	Wandoo Uplands North	1	
7	Darling Plateau	Powder Bark Uplands	0	
8	Darling Plateau	Scarp	0	
9	Darling Plateau	Depression / Swamps North	3	
10	Darling Plateau	Depressions / Swamps South	3	
11	Darling Plateau	Depressions / Swamps East	3	
12	Darling Plateau	Depressions / Swamps South East	3	
13	Darling Plateau	Jarrah Valleys North	3	
14	Darling Plateau	Jarrah Valleys East	3	
15	Darling Plateau	Jarrah Valleys South	3	
16	Darling Plateau	Jarrah Valleys South East	3	
17	Darling Plateau	Karri Valleys	3	
18	Darling Plateau	Wandoo Valleys North	2	
19	Darling Plateau	Powder Bark Wandoo Valleys	0	
20	Darling Plateau	Granite Outcrops	1	
21	Various Systems	Esturies / Open Water	3	
22	Collie Plain	Uplands	0	
23	Collie Plain	Depressions / Swamps	3	
24	Dandaragan Plateau	Uplands	0	
25	Dandaragan Plateau	Valleys	1	
26	Swan Coastal Plain	Uplands	0	
27	Swan Coastal Plain	Valleys	1	
28	Southern Plains	Jarrah	0	
29	Southern Plains	Karri	0	
30	Southern Plains	Heath / Sedgeland	3	
31	South Coast Dunes	South Coast Dunes	2	
32	Blackwood Plateau	Jarrah Uplands	0	
33	Blackwood Plateau	Karri Uplands	0	
34	Blackwood Plateau	Depressions / Swamps	3	
35	Blackwood Plateau	Valleys	3	
36	Margaret River Plateau	Jarrah Uplands	1	
37	Margaret River Plateau	Karri Uplands	0	
38	Margaret River Plateau	Jarrah Valleys	3	
39	Margaret River Plateau	Karri Valleys	3	
40	Lewin Naturalist Coast	Jarrah	0	
41	Lewin Naturalist Coast	Marri/Karri	1	
42	Lewin Naturalist Coast	Coast Heath	0	
43	Scott Coastal Plain	Uplands	0	
44	Scott Coastal Plain	Valleys / Swamps	3	
45	Redmond	Uplands	1	
46	Redmond	Valleys	2	
47	Unicup	Jarrah Uplands	0	
48	Unicup	Wandoo Uplands	0	
49	Unicup	Jarrah Valleys	2	
50	Unicup	Wandoo Valleys	2	
51	Unicup	Scrubland	2	
53	Darling Plateau	Wandoo Uplands South	1	
54	Darling Plateau	Wandoo Valleys South	2	

## Appendix 2b

Fauna Habitat ID	FDIS LAND SYSTEM	FDIS LANDSCAPE UNIT	SCORE	Origin
Slender Tree Frog				
1	Darling Plateau	Jarrah Uplands North	0	
2	Darling Plateau	Jarrah Uplands East	0	M
3	Darling Plateau	Jarrah Uplands South	0	
4	Darling Plateau	Jarrah Uplands South East	0	
5	Darling Plateau	Karri Uplands	1	
6	Darling Plateau	Wandoo Uplands North	1	
7	Darling Plateau	Powder Bark Uplands	0	
8	Darling Plateau	Scarp	0	
9	Darling Plateau	Depression / Swamps North	2	
10	Darling Plateau	Depressions / Swamps South	3	
11	Darling Plateau	Depressions / Swamps East	2	M
12	Darling Plateau	Depressions / Swamps South East	3	
13	Darling Plateau	Jarrah Valleys North	3	M
14	Darling Plateau	Jarrah Valleys East	0	
15	Darling Plateau	Jarrah Valleys South	3	
16	Darling Plateau	Jarrah Valleys South East	3	
17	Darling Plateau	Karri Valleys	3	
18	Darling Plateau	Wandoo Valleys North	1	
19	Darling Plateau	Powder Bark Wandoo Valleys	0	
20	Darling Plateau	Granite Outcrops	0	
21	Various Systems	Esturies / Open Water	3	
22	Collie Plain	Uplands	0	
23	Collie Plain	Depressions / Swamps	2	
24	Dandaragan Plateau	Uplands	0	
25	Dandaragan Plateau	Valleys	2	
26	Swan Coastal Plain	Uplands	0	
27	Swan Coastal Plain	Valleys	2	M
28	Southern Plains	Jarrah	0	
29	Southern Plains	Karri	0	
30	Southern Plains	Heath / Sedgeland	3	
31	South Coast Dunes	South Coast Dunes	2	
32	Blackwood Plateau	Jarrah Uplands	0	
33	Blackwood Plateau	Karri Uplands	0	
34	Blackwood Plateau	Depressions / Swamps	2	
35	Blackwood Plateau	Valleys	2	
36	Margaret River Plateau	Jarrah Uplands	0	
37	Margaret River Plateau	Karri Uplands	0	
38	Margaret River Plateau	Jarrah Valleys	2	
39	Margaret River Plateau	Karri Valleys	2	M
40	Lewin Naturalist Coast	Jarrah	2	
41	Lewin Naturalist Coast	Marri/Karri	2	
42	Lewin Naturalist Coast	Coast Heath	2	
43	Scott Coastal Plain	Uplands	0	
44	Scott Coastal Plain	Valleys / Swamps	3	M
45	Redmond	Uplands	2	
46	Redmond	Valleys	3	
47	Unicup	Jarrah Uplands	0	
48	Unicup	Wandoo Uplands	0	
49	Unicup	Jarrah Valleys	2	
50	Unicup	Wandoo Valleys	2	
51	Unicup	Scrubland	2	
53	Darling Plateau	Wandoo Uplands South	1	
54	Darling Plateau	Wandoo Valleys South	2	

## Appendix 2b

Fauna Habitat ID	FDIS LAND SYSTEM	FDIS LANDSCAPE UNIT	SCORE	Origin
Bell Frog (Green & Gold Frog)				
1	Darling Plateau	Jarrah Uplands North	0	M
2	Darling Plateau	Jarrah Uplands East	1	
3	Darling Plateau	Jarrah Uplands South	0	
4	Darling Plateau	Jarrah Uplands South East	0	
5	Darling Plateau	Karri Uplands	1	
6	Darling Plateau	Wandoo Uplands North	1	
7	Darling Plateau	Powder Bark Uplands	0	
8	Darling Plateau	Scarp	0	
9	Darling Plateau	Depression / Swamps North	2	
10	Darling Plateau	Depressions / Swamps South	3	
11	Darling Plateau	Depressions / Swamps East	2	M
12	Darling Plateau	Depressions / Swamps South East	3	
13	Darling Plateau	Jarrah Valleys North	3	M
14	Darling Plateau	Jarrah Valleys East	2	
15	Darling Plateau	Jarrah Valleys South	3	
16	Darling Plateau	Jarrah Valleys South East	3	
17	Darling Plateau	Karri Valleys	3	
18	Darling Plateau	Wandoo Valleys North	2	
19	Darling Plateau	Powder Bark Wandoo Valleys	1	
20	Darling Plateau	Granite Outcrops	0	
21	Various Systems	Esturies / Open Water	3	
22	Collie Plain	Uplands	0	
23	Collie Plain	Depressions / Swamps	2	
24	Dandaragan Plateau	Uplands	0	
25	Dandaragan Plateau	Valleys	2	
26	Swan Coastal Plain	Uplands	0	
27	Swan Coastal Plain	Valleys	2	
28	Southern Plains	Jarrah	0	
29	Southern Plains	Karri	0	
30	Southern Plains	Heath / Sedgeland	3	
31	South Coast Dunes	South Coast Dunes	2	
32	Blackwood Plateau	Jarrah Uplands	0	
33	Blackwood Plateau	Karri Uplands	0	
34	Blackwood Plateau	Depressions / Swamps	2	
35	Blackwood Plateau	Valleys	2	
36	Margaret River Plateau	Jarrah Uplands	0	
37	Margaret River Plateau	Karri Uplands	0	
38	Margaret River Plateau	Jarrah Valleys	2	
39	Margaret River Plateau	Karri Valleys	2	
40	Lewin Naturalist Coast	Jarrah	2	
41	Lewin Naturalist Coast	Marri/Karri	2	
42	Lewin Naturalist Coast	Coast Heath	2	
43	Scott Coastal Plain	Uplands	0	
44	Scott Coastal Plain	Valleys / Swamps	3	
45	Redmond	Uplands	2	
46	Redmond	Valleys	3	
47	Unicup	Jarrah Uplands	0	
48	Unicup	Wandoo Uplands	0	
49	Unicup	Jarrah Valleys	2	
50	Unicup	Wandoo Valleys	2	
51	Unicup	Scrubland	2	
53	Darling Plateau	Wandoo Uplands South	1	
54	Darling Plateau	Wandoo Valleys South	2	

## Appendix 2b

Fauna Habitat ID	FDIS LAND SYSTEM	FDIS LANDSCAPE UNIT	SCORE	Origin
Nicholls' Toadlet				
1	Darling Plateau	Jarrah Uplands North	0	
2	Darling Plateau	Jarrah Uplands East	0	
3	Darling Plateau	Jarrah Uplands South	2	
4	Darling Plateau	Jarrah Uplands South East	2	
5	Darling Plateau	Karri Uplands	3	
6	Darling Plateau	Wandoo Uplands North	0	
7	Darling Plateau	Powder Bark Uplands	0	
8	Darling Plateau	Scarp	0	
9	Darling Plateau	Depression / Swamps North	1	
10	Darling Plateau	Depressions / Swamps South	2	
11	Darling Plateau	Depressions / Swamps East	0	
12	Darling Plateau	Depressions / Swamps South East	2	
13	Darling Plateau	Jarrah Valleys North	0	
14	Darling Plateau	Jarrah Valleys East	0	
15	Darling Plateau	Jarrah Valleys South	3	
16	Darling Plateau	Jarrah Valleys South East	0	
17	Darling Plateau	Karri Valleys	3	
18	Darling Plateau	Wandoo Valleys North	0	
19	Darling Plateau	Powder Bark Wandoo Valleys	0	
20	Darling Plateau	Granite Outcrops	0	
21	Various Systems	Esturies / Open Water	0	
22	Collie Plain	Uplands	0	
23	Collie Plain	Depressions / Swamps	0	
24	Dandaragan Plateau	Uplands	0	
25	Dandaragan Plateau	Valleys	0	
26	Swan Coastal Plain	Uplands	0	
27	Swan Coastal Plain	Valleys	0	
28	Southern Plains	Jarrah	2	
29	Southern Plains	Karri	2	
30	Southern Plains	Heath / Sedgeland	0	
31	South Coast Dunes	South Coast Dunes	0	
32	Blackwood Plateau	Jarrah Uplands	2	
33	Blackwood Plateau	Karri Uplands	2	
34	Blackwood Plateau	Depressions / Swamps	1	
35	Blackwood Plateau	Valleys	2	
36	Margaret River Plateau	Jarrah Uplands	2	
37	Margaret River Plateau	Karri Uplands	2	
38	Margaret River Plateau	Jarrah Valleys	2	
39	Margaret River Plateau	Karri Valleys	2	
40	Lewin Naturalist Coast	Jarrah	2	
41	Lewin Naturalist Coast	Marri/Karri	2	
42	Lewin Naturalist Coast	Coast Heath	0	
43	Scott Coastal Plain	Uplands	1	
44	Scott Coastal Plain	Valleys / Swamps	1	
45	Redmond	Uplands	1	
46	Redmond	Valleys	1	
47	Unicup	Jarrah Uplands	0	
48	Unicup	Wandoo Uplands	0	
49	Unicup	Jarrah Valleys	0	
50	Unicup	Wandoo Valleys	0	
51	Unicup	Scrubland	0	
53	Darling Plateau	Wandoo Uplands South	0	
54	Darling Plateau	Wandoo Valleys South	0	

## Appendix 2b

Fauna Habitat ID	FDIS LAND SYSTEM	FDIS LANDSCAPE UNIT	SCORE	Origin
Turtle Frog				
1	Darling Plateau	Jarrah Uplands North	0	
2	Darling Plateau	Jarrah Uplands East	0	M
3	Darling Plateau	Jarrah Uplands South	0	
4	Darling Plateau	Jarrah Uplands South East	0	
5	Darling Plateau	Karri Uplands	0	
6	Darling Plateau	Wandoo Uplands North	0	
7	Darling Plateau	Powder Bark Uplands	1	
8	Darling Plateau	Scarp	0	
9	Darling Plateau	Depression / Swamps North	0	
10	Darling Plateau	Depressions / Swamps South	0	
11	Darling Plateau	Depressions / Swamps East	0	M
12	Darling Plateau	Depressions / Swamps South East	0	
13	Darling Plateau	Jarrah Valleys North	0	M
14	Darling Plateau	Jarrah Valleys East	0	
15	Darling Plateau	Jarrah Valleys South	0	
16	Darling Plateau	Jarrah Valleys South East	0	
17	Darling Plateau	Karri Valleys	0	
18	Darling Plateau	Wandoo Valleys North	1	M?
19	Darling Plateau	Powder Bark Wandoo Valleys	2	
20	Darling Plateau	Granite Outcrops	0	
21	Various Systems	Esturies / Open Water	0	
22	Collie Plain	Uplands	0	
23	Collie Plain	Depressions / Swamps	0	
24	Dandaragan Plateau	Uplands	0	
25	Dandaragan Plateau	Valleys	0	
26	Swan Coastal Plain	Uplands	2	
27	Swan Coastal Plain	Valleys	2	
28	Southern Plains	Jarrah	0	
29	Southern Plains	Karri	0	
30	Southern Plains	Heath / Sedgeland	0	
31	South Coast Dunes	South Coast Dunes	0	
32	Blackwood Plateau	Jarrah Uplands	0	
33	Blackwood Plateau	Karri Uplands	0	
34	Blackwood Plateau	Depressions / Swamps	0	
35	Blackwood Plateau	Valleys	1	
36	Margaret River Plateau	Jarrah Uplands	0	
37	Margaret River Plateau	Karri Uplands	0	
38	Margaret River Plateau	Jarrah Valleys	0	
39	Margaret River Plateau	Karri Valleys	0	
40	Lewin Naturalist Coast	Jarrah	0	
41	Lewin Naturalist Coast	Marri/Karri	0	
42	Lewin Naturalist Coast	Coast Heath	0	
43	Scott Coastal Plain	Uplands	0	
44	Scott Coastal Plain	Valleys / Swamps	0	
45	Redmond	Uplands	0	
46	Redmond	Valleys	0	
47	Unicup	Jarrah Uplands	0	
48	Unicup	Wandoo Uplands	0	
49	Unicup	Jarrah Valleys	0	
50	Unicup	Wandoo Valleys	0	
51	Unicup	Scrubland	0	
53	Darling Plateau	Wandoo Uplands South	0	
54	Darling Plateau	Wandoo Valleys South	0	



## Appendix 2b

Fauna Habitat ID	FDIS LAND SYSTEM	FDIS LANDSCAPE UNIT	SCORE	Origin
Humming Frog				
1	Darling Plateau	Jarrah Uplands North	0	
2	Darling Plateau	Jarrah Uplands East	0	
3	Darling Plateau	Jarrah Uplands South	0	
4	Darling Plateau	Jarrah Uplands South East	0	
5	Darling Plateau	Karri Uplands	0	
6	Darling Plateau	Wandoo Uplands North	0	
7	Darling Plateau	Powder Bark Uplands	0	
8	Darling Plateau	Scarp	0	
9	Darling Plateau	Depression / Swamps North	2	
10	Darling Plateau	Depressions / Swamps South	0	
11	Darling Plateau	Depressions / Swamps East	0	
12	Darling Plateau	Depressions / Swamps South East	0	
13	Darling Plateau	Jarrah Valleys North	2	
14	Darling Plateau	Jarrah Valleys East	0	
15	Darling Plateau	Jarrah Valleys South	0	
16	Darling Plateau	Jarrah Valleys South East	0	
17	Darling Plateau	Karri Valleys	0	
18	Darling Plateau	Wandoo Valleys North	2	
19	Darling Plateau	Powder Bark Wandoo Valleys	2	
20	Darling Plateau	Granite Outcrops	0	
21	Various Systems	Esturies / Open Water	0	
22	Collie Plain	Uplands	0	
23	Collie Plain	Depressions / Swamps	0	
24	Dandaragan Plateau	Uplands	0	
25	Dandaragan Plateau	Valleys	2	
26	Swan Coastal Plain	Uplands	0	
27	Swan Coastal Plain	Valleys	2	
28	Southern Plains	Jarrah	0	
29	Southern Plains	Karri	0	
30	Southern Plains	Heath / Sedgeland	0	M
31	South Coast Dunes	South Coast Dunes	0	
32	Blackwood Plateau	Jarrah Uplands	0	
33	Blackwood Plateau	Karri Uplands	0	
34	Blackwood Plateau	Depressions / Swamps	0	
35	Blackwood Plateau	Valleys	0	
36	Margaret River Plateau	Jarrah Uplands	0	
37	Margaret River Plateau	Karri Uplands	0	
38	Margaret River Plateau	Jarrah Valleys	0	
39	Margaret River Plateau	Karri Valleys	0	
40	Lewin Naturalist Coast	Jarrah	0	
41	Lewin Naturalist Coast	Marri/Karri	0	
42	Lewin Naturalist Coast	Coast Heath	0	
43	Scott Coastal Plain	Uplands	0	
44	Scott Coastal Plain	Valleys / Swamps	0	
45	Redmond	Uplands	0	
46	Redmond	Valleys	0	
47	Unicup	Jarrah Uplands	0	
48	Unicup	Wandoo Uplands	0	
49	Unicup	Jarrah Valleys	0	
50	Unicup	Wandoo Valleys	0	
51	Unicup	Scrubland	0	
53	Darling Plateau	Wandoo Uplands South	0	
54	Darling Plateau	Wandoo Valleys South	2	

## Appendix 2b

Fauna Habitat ID	FDIS LAND SYSTEM	FDIS LANDSCAPE UNIT	SCORE	Origin
Gunther's Toadlet				
1	Darling Plateau	Jarrah Uplands North	0	
2	Darling Plateau	Jarrah Uplands East	1	
3	Darling Plateau	Jarrah Uplands South	0	M
4	Darling Plateau	Jarrah Uplands South East	0	
5	Darling Plateau	Karri Uplands	0	
6	Darling Plateau	Wandoo Uplands North	0	
7	Darling Plateau	Powder Bark Uplands	0	
8	Darling Plateau	Scarp	0	
9	Darling Plateau	Depression / Swamps North	3	
10	Darling Plateau	Depressions / Swamps South	3	
11	Darling Plateau	Depressions / Swamps East	3	
12	Darling Plateau	Depressions / Swamps South East	3	M
13	Darling Plateau	Jarrah Valleys North	2	
14	Darling Plateau	Jarrah Valleys East	2	
15	Darling Plateau	Jarrah Valleys South	2	
16	Darling Plateau	Jarrah Valleys South East	2	
17	Darling Plateau	Karri Valleys	1	
18	Darling Plateau	Wandoo Valleys North	2	
19	Darling Plateau	Powder Bark Wandoo Valleys	2	
20	Darling Plateau	Granite Outcrops	2	
21	Various Systems	Esturies / Open Water	0	
22	Collie Plain	Uplands	0	
23	Collie Plain	Depressions / Swamps	3	
24	Dandaragan Plateau	Uplands	0	
25	Dandaragan Plateau	Valleys	3	
26	Swan Coastal Plain	Uplands	0	
27	Swan Coastal Plain	Valleys	3	
28	Southern Plains	Jarrah	0	M
29	Southern Plains	Karri	0	M
30	Southern Plains	Heath / Sedgeland	2	
31	South Coast Dunes	South Coast Dunes	3	
32	Blackwood Plateau	Jarrah Uplands	0	
33	Blackwood Plateau	Karri Uplands	0	
34	Blackwood Plateau	Depressions / Swamps	3	
35	Blackwood Plateau	Valleys	3	
36	Margaret River Plateau	Jarrah Uplands	0	
37	Margaret River Plateau	Karri Uplands	0	
38	Margaret River Plateau	Jarrah Valleys	3	
39	Margaret River Plateau	Karri Valleys	1	
40	Lewin Naturalist Coast	Jarrah	0	
41	Lewin Naturalist Coast	Marri/Karri	0	
42	Lewin Naturalist Coast	Coast Heath	2	
43	Scott Coastal Plain	Uplands	0	
44	Scott Coastal Plain	Valleys / Swamps	3	
45	Redmond	Uplands	0	M
46	Redmond	Valleys	2	
47	Unicup	Jarrah Uplands	0	
48	Unicup	Wandoo Uplands	0	
49	Unicup	Jarrah Valleys	2	
50	Unicup	Wandoo Valleys	2	
51	Unicup	Scrubland	2	
53	Darling Plateau	Wandoo Uplands South	0	
54	Darling Plateau	Wandoo Valleys South	2	

## Appendix 2b

Fauna Habitat ID	FDIS LAND SYSTEM	FDIS LANDSCAPE UNIT	SCORE	Origin
Glauert's Froglet				
1	Darling Plateau	Jarrah Uplands North	1	
2	Darling Plateau	Jarrah Uplands East	0	
3	Darling Plateau	Jarrah Uplands South	0	
4	Darling Plateau	Jarrah Uplands South East	0	
5	Darling Plateau	Karri Uplands	0	
6	Darling Plateau	Wandoo Uplands North	0	
7	Darling Plateau	Powder Bark Uplands	0	
8	Darling Plateau	Scarp	2	
9	Darling Plateau	Depression / Swamps North	0	
10	Darling Plateau	Depressions / Swamps South	2	
11	Darling Plateau	Depressions / Swamps East	1	
12	Darling Plateau	Depressions / Swamps South East	3	
13	Darling Plateau	Jarrah Valleys North	1	
14	Darling Plateau	Jarrah Valleys East	0	
15	Darling Plateau	Jarrah Valleys South	2	
16	Darling Plateau	Jarrah Valleys South East	3	
17	Darling Plateau	Karri Valleys	0	
18	Darling Plateau	Wandoo Valleys North	0	
19	Darling Plateau	Powder Bark Wandoo Valleys	0	
20	Darling Plateau	Granite Outcrops	0	
21	Various Systems	Esturies / Open Water	0	
22	Collie Plain	Uplands	0	
23	Collie Plain	Depressions / Swamps	0	
24	Dandaragan Plateau	Uplands	0	
25	Dandaragan Plateau	Valleys	2	
26	Swan Coastal Plain	Uplands	0	
27	Swan Coastal Plain	Valleys	3	
28	Southern Plains	Jarrah	0	
29	Southern Plains	Karri	0	
30	Southern Plains	Heath / Sedgeland	2	
31	South Coast Dunes	South Coast Dunes	1	
32	Blackwood Plateau	Jarrah Uplands	0	
33	Blackwood Plateau	Karri Uplands	0	
34	Blackwood Plateau	Depressions / Swamps	2	
35	Blackwood Plateau	Valleys	1	
36	Margaret River Plateau	Jarrah Uplands	0	
37	Margaret River Plateau	Karri Uplands	0	
38	Margaret River Plateau	Jarrah Valleys	1	
39	Margaret River Plateau	Karri Valleys	1	
40	Lewin Naturalist Coast	Jarrah	0	
41	Lewin Naturalist Coast	Marri/Karri	0	
42	Lewin Naturalist Coast	Coast Heath	0	
43	Scott Coastal Plain	Uplands	0	
44	Scott Coastal Plain	Valleys / Swamps	2	
45	Redmond	Uplands	0	
46	Redmond	Valleys	2	
47	Unicup	Jarrah Uplands	0	
48	Unicup	Wandoo Uplands	0	
49	Unicup	Jarrah Valleys	0	
50	Unicup	Wandoo Valleys	0	
51	Unicup	Scrubland	0	
53	Darling Plateau	Wandoo Uplands South	0	
54	Darling Plateau	Wandoo Valleys South	0	

## Appendix 2b

Fauna Habitat ID	FDIS LAND SYSTEM	FDIS LANDSCAPE UNIT	SCORE	Origin
Squelching Froglet				
1	Darling Plateau	Jarrah Uplands North	0	
2	Darling Plateau	Jarrah Uplands East	0	
3	Darling Plateau	Jarrah Uplands South	0	
4	Darling Plateau	Jarrah Uplands South East	0	
5	Darling Plateau	Karri Uplands	0	
6	Darling Plateau	Wandoo Uplands North	0	
7	Darling Plateau	Powder Bark Uplands	0	
8	Darling Plateau	Scarp	0	
9	Darling Plateau	Depression / Swamps North	0	
10	Darling Plateau	Depressions / Swamps South	0	
11	Darling Plateau	Depressions / Swamps East	0	
12	Darling Plateau	Depressions / Swamps South East	0	
13	Darling Plateau	Jarrah Valleys North	0	
14	Darling Plateau	Jarrah Valleys East	0	
15	Darling Plateau	Jarrah Valleys South	0	
16	Darling Plateau	Jarrah Valleys South East	0	
17	Darling Plateau	Karri Valleys	0	
18	Darling Plateau	Wandoo Valleys North	0	
19	Darling Plateau	Powder Bark Wandoo Valleys	0	
20	Darling Plateau	Granite Outcrops	0	
21	Various Systems	Esturies / Open Water	0	
22	Collie Plain	Uplands	0	
23	Collie Plain	Depressions / Swamps	0	
24	Dandaragan Plateau	Uplands	0	
25	Dandaragan Plateau	Valleys	0	
26	Swan Coastal Plain	Uplands	3	
27	Swan Coastal Plain	Valleys	3	
28	Southern Plains	Jarrah	0	
29	Southern Plains	Karri	0	
30	Southern Plains	Heath / Sedgeland	0	
31	South Coast Dunes	South Coast Dunes	0	
32	Blackwood Plateau	Jarrah Uplands	0	
33	Blackwood Plateau	Karri Uplands	0	
34	Blackwood Plateau	Depressions / Swamps	0	
35	Blackwood Plateau	Valleys	0	
36	Margaret River Plateau	Jarrah Uplands	0	
37	Margaret River Plateau	Karri Uplands	0	
38	Margaret River Plateau	Jarrah Valleys	0	
39	Margaret River Plateau	Karri Valleys	0	
40	Lewin Naturalist Coast	Jarrah	0	
41	Lewin Naturalist Coast	Marri/Karri	0	
42	Lewin Naturalist Coast	Coast Heath	1	
43	Scott Coastal Plain	Uplands	0	
44	Scott Coastal Plain	Valleys / Swamps	0	
45	Redmond	Uplands	0	
46	Redmond	Valleys	0	
47	Unicup	Jarrah Uplands	0	
48	Unicup	Wandoo Uplands	0	
49	Unicup	Jarrah Valleys	0	
50	Unicup	Wandoo Valleys	0	
51	Unicup	Scrubland	0	
53	Darling Plateau	Wandoo Uplands South	0	
54	Darling Plateau	Wandoo Valleys South	0	

## Appendix 2b

Fauna Habitat ID	FDIS LAND SYSTEM	FDIS LANDSCAPE UNIT	SCORE	Origin
Bleating Froglet				
1	Darling Plateau	Jarrah Uplands North	0	
2	Darling Plateau	Jarrah Uplands East	1	
3	Darling Plateau	Jarrah Uplands South	0	
4	Darling Plateau	Jarrah Uplands South East	0	
5	Darling Plateau	Karri Uplands	0	
6	Darling Plateau	Wandoo Uplands North	0	
7	Darling Plateau	Powder Bark Uplands	0	
8	Darling Plateau	Scarp	0	
9	Darling Plateau	Depression / Swamps North	2	
10	Darling Plateau	Depressions / Swamps South	3	
11	Darling Plateau	Depressions / Swamps East	3	
12	Darling Plateau	Depressions / Swamps South East	3	
13	Darling Plateau	Jarrah Valleys North	1	
14	Darling Plateau	Jarrah Valleys East	1	
15	Darling Plateau	Jarrah Valleys South	0	
16	Darling Plateau	Jarrah Valleys South East	1	
17	Darling Plateau	Karri Valleys	0	
18	Darling Plateau	Wandoo Valleys North	1	
19	Darling Plateau	Powder Bark Wandoo Valleys	0	
20	Darling Plateau	Granite Outcrops	0	
21	Various Systems	Esturies / Open Water	0	
22	Collie Plain	Uplands	0	
23	Collie Plain	Depressions / Swamps	1	
24	Dandaragan Plateau	Uplands	0	
25	Dandaragan Plateau	Valleys	2	
26	Swan Coastal Plain	Uplands	0	
27	Swan Coastal Plain	Valleys	0	
28	Southern Plains	Jarrah	0	
29	Southern Plains	Karri	0	
30	Southern Plains	Heath / Sedgeland	1	
31	South Coast Dunes	South Coast Dunes	0	
32	Blackwood Plateau	Jarrah Uplands	0	
33	Blackwood Plateau	Karri Uplands	0	
34	Blackwood Plateau	Depressions / Swamps	0	
35	Blackwood Plateau	Valleys	0	
36	Margaret River Plateau	Jarrah Uplands	0	
37	Margaret River Plateau	Karri Uplands	0	
38	Margaret River Plateau	Jarrah Valleys	1	
39	Margaret River Plateau	Karri Valleys	0	
40	Lewin Naturalist Coast	Jarrah	1	
41	Lewin Naturalist Coast	Marri/Karri	0	
42	Lewin Naturalist Coast	Coast Heath	1	
43	Scott Coastal Plain	Uplands	0	
44	Scott Coastal Plain	Valleys / Swamps	0	
45	Redmond	Uplands	3	
46	Redmond	Valleys	2	
47	Unicup	Jarrah Uplands	0	
48	Unicup	Wandoo Uplands	0	
49	Unicup	Jarrah Valleys	3	
50	Unicup	Wandoo Valleys	3	
51	Unicup	Scrubland	3	
53	Darling Plateau	Wandoo Uplands South	0	
54	Darling Plateau	Wandoo Valleys South	1	

## Appendix 2b

Fauna Habitat ID	FDIS LAND SYSTEM	FDIS LANDSCAPE UNIT	SCORE	Origin
South Coast Froglet				
1	Darling Plateau	Jarrah Uplands North	0	
2	Darling Plateau	Jarrah Uplands East	0	
3	Darling Plateau	Jarrah Uplands South	0	
4	Darling Plateau	Jarrah Uplands South East	0	
5	Darling Plateau	Karri Uplands	0	
6	Darling Plateau	Wandoo Uplands North	0	
7	Darling Plateau	Powder Bark Uplands	0	
8	Darling Plateau	Scarp	0	
9	Darling Plateau	Depression / Swamps North	0	
10	Darling Plateau	Depressions / Swamps South	3	
11	Darling Plateau	Depressions / Swamps East	0	
12	Darling Plateau	Depressions / Swamps South East	3	
13	Darling Plateau	Jarrah Valleys North	0	
14	Darling Plateau	Jarrah Valleys East	0	
15	Darling Plateau	Jarrah Valleys South	3	
16	Darling Plateau	Jarrah Valleys South East	3	
17	Darling Plateau	Karri Valleys	0	
18	Darling Plateau	Wandoo Valleys North	0	
19	Darling Plateau	Powder Bark Wandoo Valleys	0	
20	Darling Plateau	Granite Outcrops	0	
21	Various Systems	Esturies / Open Water	0	
22	Collie Plain	Uplands	0	
23	Collie Plain	Depressions / Swamps	0	
24	Dandaragan Plateau	Uplands	0	
25	Dandaragan Plateau	Valleys	0	
26	Swan Coastal Plain	Uplands	0	
27	Swan Coastal Plain	Valleys	0	
28	Southern Plains	Jarrah	0	
29	Southern Plains	Karri	0	
30	Southern Plains	Heath / Sedgeland	3	
31	South Coast Dunes	South Coast Dunes	1	
32	Blackwood Plateau	Jarrah Uplands	0	
33	Blackwood Plateau	Karri Uplands	0	
34	Blackwood Plateau	Depressions / Swamps	0	
35	Blackwood Plateau	Valleys	0	
36	Margaret River Plateau	Jarrah Uplands	0	
37	Margaret River Plateau	Karri Uplands	0	
38	Margaret River Plateau	Jarrah Valleys	0	
39	Margaret River Plateau	Karri Valleys	0	
40	Lewin Naturalist Coast	Jarrah	0	
41	Lewin Naturalist Coast	Marri/Karri	0	
42	Lewin Naturalist Coast	Coast Heath	0	
43	Scott Coastal Plain	Uplands	0	
44	Scott Coastal Plain	Valleys / Swamps	0	
45	Redmond	Uplands	0	
46	Redmond	Valleys	3	
47	Unicup	Jarrah Uplands	0	
48	Unicup	Wandoo Uplands	0	
49	Unicup	Jarrah Valleys	0	
50	Unicup	Wandoo Valleys	3	
51	Unicup	Scrubland	3	
53	Darling Plateau	Wandoo Uplands South	0	
54	Darling Plateau	Wandoo Valleys South	1	

## Appendix 2b

Fauna Habitat ID	FDIS LAND SYSTEM	FDIS LANDSCAPE UNIT	SCORE	Origin
Sunset Frog				
1	Darling Plateau	Jarrah Uplands North	0	
2	Darling Plateau	Jarrah Uplands East	0	
3	Darling Plateau	Jarrah Uplands South	0	
4	Darling Plateau	Jarrah Uplands South East	0	
5	Darling Plateau	Karri Uplands	0	
6	Darling Plateau	Wandoo Uplands North	0	
7	Darling Plateau	Powder Bark Uplands	0	
8	Darling Plateau	Scarp	0	
9	Darling Plateau	Depression / Swamps North	0	
10	Darling Plateau	Depressions / Swamps South	0	
11	Darling Plateau	Depressions / Swamps East	0	
12	Darling Plateau	Depressions / Swamps South East	2	
13	Darling Plateau	Jarrah Valleys North	0	
14	Darling Plateau	Jarrah Valleys East	0	
15	Darling Plateau	Jarrah Valleys South	0	
16	Darling Plateau	Jarrah Valleys South East	0	
17	Darling Plateau	Karri Valleys	0	
18	Darling Plateau	Wandoo Valleys North	0	
19	Darling Plateau	Powder Bark Wandoo Valleys	0	
20	Darling Plateau	Granite Outcrops	0	
21	Various Systems	Esturies / Open Water	0	
22	Collie Plain	Uplands	0	
23	Collie Plain	Depressions / Swamps	0	
24	Dandaragan Plateau	Uplands	0	
25	Dandaragan Plateau	Valleys	0	
26	Swan Coastal Plain	Uplands	0	
27	Swan Coastal Plain	Valleys	0	
28	Southern Plains	Jarrah	0	
29	Southern Plains	Karri	0	
30	Southern Plains	Heath / Sedgeland	1	
31	South Coast Dunes	South Coast Dunes	0	
32	Blackwood Plateau	Jarrah Uplands	0	
33	Blackwood Plateau	Karri Uplands	0	
34	Blackwood Plateau	Depressions / Swamps	0	
35	Blackwood Plateau	Valleys	0	
36	Margaret River Plateau	Jarrah Uplands	0	
37	Margaret River Plateau	Karri Uplands	0	
38	Margaret River Plateau	Jarrah Valleys	0	
39	Margaret River Plateau	Karri Valleys	0	
40	Lewin Naturalist Coast	Jarrah	0	
41	Lewin Naturalist Coast	Marri/Karri	0	
42	Lewin Naturalist Coast	Coast Heath	0	
43	Scott Coastal Plain	Uplands	0	
44	Scott Coastal Plain	Valleys / Swamps	0	
45	Redmond	Uplands	0	
46	Redmond	Valleys	0	
47	Unicup	Jarrah Uplands	0	
48	Unicup	Wandoo Uplands	0	
49	Unicup	Jarrah Valleys	0	
50	Unicup	Wandoo Valleys	0	
51	Unicup	Scrubland	0	
53	Darling Plateau	Wandoo Uplands South	0	
54	Darling Plateau	Wandoo Valleys South	0	

## Appendix 2b

Fauna Habitat ID	FDIS LAND SYSTEM	FDIS LANDSCAPE UNIT	SCORE	Origin
Mud Minnow				
1	Darling Plateau	Jarrah Uplands North	0	
2	Darling Plateau	Jarrah Uplands East	0	
3	Darling Plateau	Jarrah Uplands South	0	
4	Darling Plateau	Jarrah Uplands South East	0	
5	Darling Plateau	Karri Uplands	0	
6	Darling Plateau	Wandoo Uplands North	0	
7	Darling Plateau	Powder Bark Uplands	0	
8	Darling Plateau	Scarp	0	
9	Darling Plateau	Depression / Swamps North	0	
10	Darling Plateau	Depressions / Swamps South	3	
11	Darling Plateau	Depressions / Swamps East	0	
12	Darling Plateau	Depressions / Swamps South East	3	
13	Darling Plateau	Jarrah Valleys North	0	
14	Darling Plateau	Jarrah Valleys East	0	
15	Darling Plateau	Jarrah Valleys South	0	
16	Darling Plateau	Jarrah Valleys South East	0	
17	Darling Plateau	Karri Valleys	0	
18	Darling Plateau	Wandoo Valleys North	0	
19	Darling Plateau	Powder Bark Wandoo Valleys	0	
20	Darling Plateau	Granite Outcrops	0	
21	Various Systems	Esturies / Open Water	0	
22	Collie Plain	Uplands	0	
23	Collie Plain	Depressions / Swamps	0	
24	Dandaragan Plateau	Uplands	0	
25	Dandaragan Plateau	Valleys	0	
26	Swan Coastal Plain	Uplands	0	
27	Swan Coastal Plain	Valleys	0	
28	Southern Plains	Jarrah	0	
29	Southern Plains	Karri	0	
30	Southern Plains	Heath / Sedgeland	3	
31	South Coast Dunes	South Coast Dunes	3	
32	Blackwood Plateau	Jarrah Uplands	0	
33	Blackwood Plateau	Karri Uplands	0	
34	Blackwood Plateau	Depressions / Swamps	2	
35	Blackwood Plateau	Valleys	2	
36	Margaret River Plateau	Jarrah Uplands	0	
37	Margaret River Plateau	Karri Uplands	0	
38	Margaret River Plateau	Jarrah Valleys	2	
39	Margaret River Plateau	Karri Valleys	2	
40	Lewin Naturalist Coast	Jarrah	0	
41	Lewin Naturalist Coast	Marri/Karri	0	
42	Lewin Naturalist Coast	Coast Heath	0	
43	Scott Coastal Plain	Uplands	0	
44	Scott Coastal Plain	Valleys / Swamps	3	
45	Redmond	Uplands	0	
46	Redmond	Valleys	3	
47	Unicup	Jarrah Uplands	0	
48	Unicup	Wandoo Uplands	0	
49	Unicup	Jarrah Valleys	0	
50	Unicup	Wandoo Valleys	0	
51	Unicup	Scrubland	0	
53	Darling Plateau	Wandoo Uplands South	0	
54	Darling Plateau	Wandoo Valleys South	0	



## Appendix 2b

Fauna Habitat ID	FDIS LAND SYSTEM	FDIS LANDSCAPE UNIT	SCORE	Origin
Black-Striped Minnow				
1	Darling Plateau	Jarrah Uplands North	0	
2	Darling Plateau	Jarrah Uplands East	0	
3	Darling Plateau	Jarrah Uplands South	0	
4	Darling Plateau	Jarrah Uplands South East	0	
5	Darling Plateau	Karri Uplands	0	
6	Darling Plateau	Wandoo Uplands North	0	
7	Darling Plateau	Powder Bark Uplands	0	
8	Darling Plateau	Scarp	0	
9	Darling Plateau	Depression / Swamps North	0	
10	Darling Plateau	Depressions / Swamps South	0	
11	Darling Plateau	Depressions / Swamps East	0	
12	Darling Plateau	Depressions / Swamps South East	0	
13	Darling Plateau	Jarrah Valleys North	0	
14	Darling Plateau	Jarrah Valleys East	0	
15	Darling Plateau	Jarrah Valleys South	0	
16	Darling Plateau	Jarrah Valleys South East	0	
17	Darling Plateau	Karri Valleys	0	
18	Darling Plateau	Wandoo Valleys North	0	
19	Darling Plateau	Powder Bark Wandoo Valleys	0	
20	Darling Plateau	Granite Outcrops	0	
21	Various Systems	Esturies / Open Water	0	
22	Collie Plain	Uplands	0	
23	Collie Plain	Depressions / Swamps	0	
24	Dandaragan Plateau	Uplands	0	
25	Dandaragan Plateau	Valleys	0	
26	Swan Coastal Plain	Uplands	0	
27	Swan Coastal Plain	Valleys	0	
28	Southern Plains	Jarrah	0	
29	Southern Plains	Karri	0	
30	Southern Plains	Heath / Sedgeland	3	
31	South Coast Dunes	South Coast Dunes	3	
32	Blackwood Plateau	Jarrah Uplands	0	
33	Blackwood Plateau	Karri Uplands	0	
34	Blackwood Plateau	Depressions / Swamps	0	
35	Blackwood Plateau	Valleys	0	
36	Margaret River Plateau	Jarrah Uplands	0	
37	Margaret River Plateau	Karri Uplands	0	
38	Margaret River Plateau	Jarrah Valleys	0	
39	Margaret River Plateau	Karri Valleys	0	
40	Lewin Naturalist Coast	Jarrah	0	
41	Lewin Naturalist Coast	Marri/Karri	0	
42	Lewin Naturalist Coast	Coast Heath	0	
43	Scott Coastal Plain	Uplands	0	
44	Scott Coastal Plain	Valleys / Swamps	3	
45	Redmond	Uplands	0	
46	Redmond	Valleys	3	
47	Unicup	Jarrah Uplands	0	
48	Unicup	Wandoo Uplands	0	
49	Unicup	Jarrah Valleys	0	
50	Unicup	Wandoo Valleys	0	
51	Unicup	Scrubland	0	
53	Darling Plateau	Wandoo Uplands South	0	
54	Darling Plateau	Wandoo Valleys South	0	

## Appendix 2b

Fauna Habitat ID	FDIS LAND SYSTEM	FDIS LANDSCAPE UNIT	SCORE	Origin
Western Minnow				
1	Darling Plateau	Jarrah Uplands North	0	
2	Darling Plateau	Jarrah Uplands East	0	
3	Darling Plateau	Jarrah Uplands South	0	
4	Darling Plateau	Jarrah Uplands South East	0	
5	Darling Plateau	Karri Uplands	0	
6	Darling Plateau	Wandoo Uplands North	0	
7	Darling Plateau	Powder Bark Uplands	0	
8	Darling Plateau	Scarp	0	
9	Darling Plateau	Depression / Swamps North	0	
10	Darling Plateau	Depressions / Swamps South	0	
11	Darling Plateau	Depressions / Swamps East	0	
12	Darling Plateau	Depressions / Swamps South East	0	
13	Darling Plateau	Jarrah Valleys North	3	
14	Darling Plateau	Jarrah Valleys East	0	
15	Darling Plateau	Jarrah Valleys South	3	
16	Darling Plateau	Jarrah Valleys South East	0	
17	Darling Plateau	Karri Valleys	3	
18	Darling Plateau	Wandoo Valleys North	0	
19	Darling Plateau	Powder Bark Wandoo Valleys	0	
20	Darling Plateau	Granite Outcrops	0	
21	Various Systems	Esturies / Open Water	3	
22	Collie Plain	Uplands	0	
23	Collie Plain	Depressions / Swamps	0	
24	Dandaragan Plateau	Uplands	0	
25	Dandaragan Plateau	Valleys	0	
26	Swan Coastal Plain	Uplands	0	
27	Swan Coastal Plain	Valleys	3	
28	Southern Plains	Jarrah	0	
29	Southern Plains	Karri	0	
30	Southern Plains	Heath / Sedgeland	3	
31	South Coast Dunes	South Coast Dunes	3	
32	Blackwood Plateau	Jarrah Uplands	0	
33	Blackwood Plateau	Karri Uplands	0	
34	Blackwood Plateau	Depressions / Swamps	2	
35	Blackwood Plateau	Valleys	3	
36	Margaret River Plateau	Jarrah Uplands	0	
37	Margaret River Plateau	Karri Uplands	0	
38	Margaret River Plateau	Jarrah Valleys	3	
39	Margaret River Plateau	Karri Valleys	3	
40	Lewin Naturalist Coast	Jarrah	0	
41	Lewin Naturalist Coast	Marri/Karri	0	
42	Lewin Naturalist Coast	Coast Heath	0	
43	Scott Coastal Plain	Uplands	0	
44	Scott Coastal Plain	Valleys / Swamps	3	
45	Redmond	Uplands	0	
46	Redmond	Valleys	3	
47	Unicup	Jarrah Uplands	0	
48	Unicup	Wandoo Uplands	0	
49	Unicup	Jarrah Valleys	0	
50	Unicup	Wandoo Valleys	0	
51	Unicup	Scrubland	0	
53	Darling Plateau	Wandoo Uplands South	0	
54	Darling Plateau	Wandoo Valleys South	0	

## Appendix 2b

Fauna Habitat ID	FDIS LAND SYSTEM	FDIS LANDSCAPE UNIT	SCORE	Origin
Salamander Fish				
1	Darling Plateau	Jarrah Uplands North	0	
2	Darling Plateau	Jarrah Uplands East	0	
3	Darling Plateau	Jarrah Uplands South	0	
4	Darling Plateau	Jarrah Uplands South East	0	
5	Darling Plateau	Karri Uplands	0	
6	Darling Plateau	Wandoo Uplands North	0	
7	Darling Plateau	Powder Bark Uplands	0	
8	Darling Plateau	Scarp	0	
9	Darling Plateau	Depression / Swamps North	0	
10	Darling Plateau	Depressions / Swamps South	3	
11	Darling Plateau	Depressions / Swamps East	0	
12	Darling Plateau	Depressions / Swamps South East	3	
13	Darling Plateau	Jarrah Valleys North	0	
14	Darling Plateau	Jarrah Valleys East	0	
15	Darling Plateau	Jarrah Valleys South	0	
16	Darling Plateau	Jarrah Valleys South East	0	
17	Darling Plateau	Karri Valleys	0	
18	Darling Plateau	Wandoo Valleys North	0	
19	Darling Plateau	Powder Bark Wandoo Valleys	0	
20	Darling Plateau	Granite Outcrops	0	
21	Various Systems	Esturies / Open Water	0	
22	Collie Plain	Uplands	0	
23	Collie Plain	Depressions / Swamps	0	
24	Dandaragan Plateau	Uplands	0	
25	Dandaragan Plateau	Valleys	0	
26	Swan Coastal Plain	Uplands	0	
27	Swan Coastal Plain	Valleys	0	
28	Southern Plains	Jarrah	0	
29	Southern Plains	Karri	0	
30	Southern Plains	Heath / Sedgeland	3	
31	South Coast Dunes	South Coast Dunes	0	
32	Blackwood Plateau	Jarrah Uplands	0	
33	Blackwood Plateau	Karri Uplands	0	
34	Blackwood Plateau	Depressions / Swamps	2	
35	Blackwood Plateau	Valleys	0	
36	Margaret River Plateau	Jarrah Uplands	0	
37	Margaret River Plateau	Karri Uplands	0	
38	Margaret River Plateau	Jarrah Valleys	0	
39	Margaret River Plateau	Karri Valleys	0	
40	Lewin Naturalist Coast	Jarrah	0	
41	Lewin Naturalist Coast	Marri/Karri	0	
42	Lewin Naturalist Coast	Coast Heath	0	
43	Scott Coastal Plain	Uplands	0	
44	Scott Coastal Plain	Valleys / Swamps	3	
45	Redmond	Uplands	0	
46	Redmond	Valleys	3	
47	Unicup	Jarrah Uplands	0	
48	Unicup	Wandoo Uplands	0	
49	Unicup	Jarrah Valleys	0	
50	Unicup	Wandoo Valleys	0	
51	Unicup	Scrubland	0	
53	Darling Plateau	Wandoo Uplands South	0	
54	Darling Plateau	Wandoo Valleys South	0	

## Appendix 2b

Fauna Habitat ID	FDIS LAND SYSTEM	FDIS LANDSCAPE UNIT	SCORE	Origin
Freshwater Cobbler				
1	Darling Plateau	Jarrah Uplands North	0	
2	Darling Plateau	Jarrah Uplands East	0	
3	Darling Plateau	Jarrah Uplands South	0	
4	Darling Plateau	Jarrah Uplands South East	0	
5	Darling Plateau	Karri Uplands	0	
6	Darling Plateau	Wandoo Uplands North	0	
7	Darling Plateau	Powder Bark Uplands	0	
8	Darling Plateau	Scarp	0	
9	Darling Plateau	Depression / Swamps North	0	
10	Darling Plateau	Depressions / Swamps South	0	
11	Darling Plateau	Depressions / Swamps East	0	
12	Darling Plateau	Depressions / Swamps South East	0	
13	Darling Plateau	Jarrah Valleys North	0	
14	Darling Plateau	Jarrah Valleys East	0	
15	Darling Plateau	Jarrah Valleys South	0	
16	Darling Plateau	Jarrah Valleys South East	0	
17	Darling Plateau	Karri Valleys	0	
18	Darling Plateau	Wandoo Valleys North	0	
19	Darling Plateau	Powder Bark Wandoo Valleys	0	
20	Darling Plateau	Granite Outcrops	0	
21	Various Systems	Esturies / Open Water	2	
22	Collie Plain	Uplands	0	
23	Collie Plain	Depressions / Swamps	0	
24	Dandaragan Plateau	Uplands	0	
25	Dandaragan Plateau	Valleys	0	
26	Swan Coastal Plain	Uplands	0	
27	Swan Coastal Plain	Valleys	0	
28	Southern Plains	Jarrah	0	
29	Southern Plains	Karri	0	
30	Southern Plains	Heath / Sedgeland	0	
31	South Coast Dunes	South Coast Dunes	0	
32	Blackwood Plateau	Jarrah Uplands	0	
33	Blackwood Plateau	Karri Uplands	0	
34	Blackwood Plateau	Depressions / Swamps	0	
35	Blackwood Plateau	Valleys	0	
36	Margaret River Plateau	Jarrah Uplands	0	
37	Margaret River Plateau	Karri Uplands	0	
38	Margaret River Plateau	Jarrah Valleys	0	
39	Margaret River Plateau	Karri Valleys	0	
40	Lewin Naturalist Coast	Jarrah	0	
41	Lewin Naturalist Coast	Marri/Karri	0	
42	Lewin Naturalist Coast	Coast Heath	0	
43	Scott Coastal Plain	Uplands	0	
44	Scott Coastal Plain	Valleys / Swamps	0	
45	Redmond	Uplands	0	
46	Redmond	Valleys	0	
47	Unicup	Jarrah Uplands	0	
48	Unicup	Wandoo Uplands	0	
49	Unicup	Jarrah Valleys	0	
50	Unicup	Wandoo Valleys	0	
51	Unicup	Scrubland	0	
53	Darling Plateau	Wandoo Uplands South	0	
54	Darling Plateau	Wandoo Valleys South	0	

## Appendix 2b

Fauna Habitat ID	FDIS LAND SYSTEM	FDIS LANDSCAPE UNIT	SCORE	Origin
Night Fish				
1	Darling Plateau	Jarrah Uplands North	0	
2	Darling Plateau	Jarrah Uplands East	0	
3	Darling Plateau	Jarrah Uplands South	0	
4	Darling Plateau	Jarrah Uplands South East	0	
5	Darling Plateau	Karri Uplands	0	
6	Darling Plateau	Wandoo Uplands North	0	
7	Darling Plateau	Powder Bark Uplands	0	
8	Darling Plateau	Scarp	0	
9	Darling Plateau	Depression / Swamps North	0	
10	Darling Plateau	Depressions / Swamps South	3	
11	Darling Plateau	Depressions / Swamps East	0	
12	Darling Plateau	Depressions / Swamps South East	3	
13	Darling Plateau	Jarrah Valleys North	3	
14	Darling Plateau	Jarrah Valleys East	1	
15	Darling Plateau	Jarrah Valleys South	3	
16	Darling Plateau	Jarrah Valleys South East	0	
17	Darling Plateau	Karri Valleys	3	
18	Darling Plateau	Wandoo Valleys North	0	
19	Darling Plateau	Powder Bark Wandoo Valleys	0	
20	Darling Plateau	Granite Outcrops	0	
21	Various Systems	Esturies / Open Water	2	
22	Collie Plain	Uplands	0	
23	Collie Plain	Depressions / Swamps	0	
24	Dandaragan Plateau	Uplands	0	
25	Dandaragan Plateau	Valleys	0	
26	Swan Coastal Plain	Uplands	0	
27	Swan Coastal Plain	Valleys	0	
28	Southern Plains	Jarrah	0	
29	Southern Plains	Karri	0	
30	Southern Plains	Heath / Sedgeland	3	
31	South Coast Dunes	South Coast Dunes	0	
32	Blackwood Plateau	Jarrah Uplands	0	
33	Blackwood Plateau	Karri Uplands	0	
34	Blackwood Plateau	Depressions / Swamps	2	
35	Blackwood Plateau	Valleys	2	
36	Margaret River Plateau	Jarrah Uplands	0	
37	Margaret River Plateau	Karri Uplands	0	
38	Margaret River Plateau	Jarrah Valleys	2	
39	Margaret River Plateau	Karri Valleys	2	
40	Lewin Naturalist Coast	Jarrah	0	
41	Lewin Naturalist Coast	Marri/Karri	0	
42	Lewin Naturalist Coast	Coast Heath	0	
43	Scott Coastal Plain	Uplands	0	
44	Scott Coastal Plain	Valleys / Swamps	3	
45	Redmond	Uplands	0	
46	Redmond	Valleys	3	
47	Unicup	Jarrah Uplands	0	
48	Unicup	Wandoo Uplands	0	
49	Unicup	Jarrah Valleys	0	
50	Unicup	Wandoo Valleys	0	
51	Unicup	Scrubland	0	
53	Darling Plateau	Wandoo Uplands South	0	
54	Darling Plateau	Wandoo Valleys South	0	

## Appendix 2b

Fauna Habitat ID	FDIS LAND SYSTEM	FDIS LANDSCAPE UNIT	SCORE	Origin
Western Pygmy Perch				
1	Darling Plateau	Jarrah Uplands North	0	
2	Darling Plateau	Jarrah Uplands East	0	
3	Darling Plateau	Jarrah Uplands South	0	
4	Darling Plateau	Jarrah Uplands South East	0	
5	Darling Plateau	Karri Uplands	0	
6	Darling Plateau	Wandoo Uplands North	0	
7	Darling Plateau	Powder Bark Uplands	0	
8	Darling Plateau	Scarp	0	
9	Darling Plateau	Depression / Swamps North	0	
10	Darling Plateau	Depressions / Swamps South	3	
11	Darling Plateau	Depressions / Swamps East	0	
12	Darling Plateau	Depressions / Swamps South East	3	
13	Darling Plateau	Jarrah Valleys North	3	
14	Darling Plateau	Jarrah Valleys East	0	
15	Darling Plateau	Jarrah Valleys South	3	
16	Darling Plateau	Jarrah Valleys South East	0	
17	Darling Plateau	Karri Valleys	3	
18	Darling Plateau	Wandoo Valleys North	0	
19	Darling Plateau	Powder Bark Wandoo Valleys	0	
20	Darling Plateau	Granite Outcrops	0	
21	Various Systems	Esturies / Open Water	3	
22	Collie Plain	Uplands	0	
23	Collie Plain	Depressions / Swamps	0	
24	Dandaragan Plateau	Uplands	0	
25	Dandaragan Plateau	Valleys	0	
26	Swan Coastal Plain	Uplands	0	
27	Swan Coastal Plain	Valleys	1	
28	Southern Plains	Jarrah	0	
29	Southern Plains	Karri	0	
30	Southern Plains	Heath / Sedgeland	3	
31	South Coast Dunes	South Coast Dunes	2	
32	Blackwood Plateau	Jarrah Uplands	0	
33	Blackwood Plateau	Karri Uplands	0	
34	Blackwood Plateau	Depressions / Swamps	3	
35	Blackwood Plateau	Valleys	3	
36	Margaret River Plateau	Jarrah Uplands	0	
37	Margaret River Plateau	Karri Uplands	0	
38	Margaret River Plateau	Jarrah Valleys	3	
39	Margaret River Plateau	Karri Valleys	3	
40	Lewin Naturalist Coast	Jarrah	0	
41	Lewin Naturalist Coast	Marri/Karri	0	
42	Lewin Naturalist Coast	Coast Heath	0	
43	Scott Coastal Plain	Uplands	0	
44	Scott Coastal Plain	Valleys / Swamps	3	
45	Redmond	Uplands	0	
46	Redmond	Valleys	3	
47	Unicup	Jarrah Uplands	0	
48	Unicup	Wandoo Uplands	0	
49	Unicup	Jarrah Valleys	0	
50	Unicup	Wandoo Valleys	0	
51	Unicup	Scrubland	0	
53	Darling Plateau	Wandoo Uplands South	0	
54	Darling Plateau	Wandoo Valleys South	0	

## Appendix 2b

Fauna Habitat ID	FDIS LAND SYSTEM	FDIS LANDSCAPE UNIT	SCORE	Origin
Balston's Pygmy Perch				
1	Darling Plateau	Jarrah Uplands North	0	
2	Darling Plateau	Jarrah Uplands East	0	
3	Darling Plateau	Jarrah Uplands South	0	
4	Darling Plateau	Jarrah Uplands South East	0	
5	Darling Plateau	Karri Uplands	0	
6	Darling Plateau	Wandoo Uplands North	0	
7	Darling Plateau	Powder Bark Uplands	0	
8	Darling Plateau	Scarp	0	
9	Darling Plateau	Depression / Swamps North	0	
10	Darling Plateau	Depressions / Swamps South	0	
11	Darling Plateau	Depressions / Swamps East	0	
12	Darling Plateau	Depressions / Swamps South East	0	
13	Darling Plateau	Jarrah Valleys North	0	
14	Darling Plateau	Jarrah Valleys East	0	
15	Darling Plateau	Jarrah Valleys South	0	
16	Darling Plateau	Jarrah Valleys South East	0	
17	Darling Plateau	Karri Valleys	0	
18	Darling Plateau	Wandoo Valleys North	0	
19	Darling Plateau	Powder Bark Wandoo Valleys	0	
20	Darling Plateau	Granite Outcrops	0	
21	Various Systems	Esturies / Open Water	2	
22	Collie Plain	Uplands	0	
23	Collie Plain	Depressions / Swamps	0	
24	Dandaragan Plateau	Uplands	0	
25	Dandaragan Plateau	Valleys	0	
26	Swan Coastal Plain	Uplands	0	
27	Swan Coastal Plain	Valleys	0	
28	Southern Plains	Jarrah	0	
29	Southern Plains	Karri	0	
30	Southern Plains	Heath / Sedgeland	3	
31	South Coast Dunes	South Coast Dunes	2	
32	Blackwood Plateau	Jarrah Uplands	0	
33	Blackwood Plateau	Karri Uplands	0	
34	Blackwood Plateau	Depressions / Swamps	2	
35	Blackwood Plateau	Valleys	2	
36	Margaret River Plateau	Jarrah Uplands	0	
37	Margaret River Plateau	Karri Uplands	0	
38	Margaret River Plateau	Jarrah Valleys	2	
39	Margaret River Plateau	Karri Valleys	0	
40	Lewin Naturalist Coast	Jarrah	0	
41	Lewin Naturalist Coast	Marri/Karri	0	
42	Lewin Naturalist Coast	Coast Heath	0	
43	Scott Coastal Plain	Uplands	0	
44	Scott Coastal Plain	Valleys / Swamps	3	
45	Redmond	Uplands	3	
46	Redmond	Valleys	1	
47	Unicup	Jarrah Uplands	0	
48	Unicup	Wandoo Uplands	0	
49	Unicup	Jarrah Valleys	0	
50	Unicup	Wandoo Valleys	0	
51	Unicup	Scrubland	0	
53	Darling Plateau	Wandoo Uplands South	0	
54	Darling Plateau	Wandoo Valleys South	0	

## Appendix 2b

Fauna Habitat ID	FDIS LAND SYSTEM	FDIS LANDSCAPE UNIT	SCORE	Origin
Pouched Lamprey				
1	Darling Plateau	Jarrah Uplands North	0	
2	Darling Plateau	Jarrah Uplands East	0	
3	Darling Plateau	Jarrah Uplands South	0	
4	Darling Plateau	Jarrah Uplands South East	0	
5	Darling Plateau	Karri Uplands	0	
6	Darling Plateau	Wandoo Uplands North	0	
7	Darling Plateau	Powder Bark Uplands	0	
8	Darling Plateau	Scarp	0	
9	Darling Plateau	Depression / Swamps North	0	
10	Darling Plateau	Depressions / Swamps South	0	
11	Darling Plateau	Depressions / Swamps East	0	
12	Darling Plateau	Depressions / Swamps South East	0	
13	Darling Plateau	Jarrah Valleys North	0	
14	Darling Plateau	Jarrah Valleys East	0	
15	Darling Plateau	Jarrah Valleys South	0	
16	Darling Plateau	Jarrah Valleys South East	0	
17	Darling Plateau	Karri Valleys	0	
18	Darling Plateau	Wandoo Valleys North	0	
19	Darling Plateau	Powder Bark Wandoo Valleys	0	
20	Darling Plateau	Granite Outcrops	0	
21	Various Systems	Esturies / Open Water	2	
22	Collie Plain	Uplands	0	
23	Collie Plain	Depressions / Swamps	0	
24	Dandaragan Plateau	Uplands	0	
25	Dandaragan Plateau	Valleys	0	
26	Swan Coastal Plain	Uplands	0	
27	Swan Coastal Plain	Valleys	0	
28	Southern Plains	Jarrah	0	
29	Southern Plains	Karri	0	
30	Southern Plains	Heath / Sedgeland	0	
31	South Coast Dunes	South Coast Dunes	0	
32	Blackwood Plateau	Jarrah Uplands	0	
33	Blackwood Plateau	Karri Uplands	0	
34	Blackwood Plateau	Depressions / Swamps	0	
35	Blackwood Plateau	Valleys	0	
36	Margaret River Plateau	Jarrah Uplands	0	
37	Margaret River Plateau	Karri Uplands	0	
38	Margaret River Plateau	Jarrah Valleys	0	
39	Margaret River Plateau	Karri Valleys	0	
40	Lewin Naturalist Coast	Jarrah	0	
41	Lewin Naturalist Coast	Marri/Karri	0	
42	Lewin Naturalist Coast	Coast Heath	0	
43	Scott Coastal Plain	Uplands	0	
44	Scott Coastal Plain	Valleys / Swamps	0	
45	Redmond	Uplands	0	
46	Redmond	Valleys	0	
47	Unicup	Jarrah Uplands	0	
48	Unicup	Wandoo Uplands	0	
49	Unicup	Jarrah Valleys	0	
50	Unicup	Wandoo Valleys	0	
51	Unicup	Scrubland	0	
53	Darling Plateau	Wandoo Uplands South	0	
54	Darling Plateau	Wandoo Valleys South	0	



## Appendix 2b

Fauna Habitat ID	FDIS LAND SYSTEM	FDIS LANDSCAPE UNIT	SCORE	Origin
Hardyhead				
1	Darling Plateau	Jarrah Uplands North	0	
2	Darling Plateau	Jarrah Uplands East	0	
3	Darling Plateau	Jarrah Uplands South	0	
4	Darling Plateau	Jarrah Uplands South East	0	
5	Darling Plateau	Karri Uplands	0	
6	Darling Plateau	Wandoo Uplands North	0	
7	Darling Plateau	Powder Bark Uplands	0	
8	Darling Plateau	Scarp	0	
9	Darling Plateau	Depression / Swamps North	0	
10	Darling Plateau	Depressions / Swamps South	0	
11	Darling Plateau	Depressions / Swamps East	0	
12	Darling Plateau	Depressions / Swamps South East	0	
13	Darling Plateau	Jarrah Valleys North	0	
14	Darling Plateau	Jarrah Valleys East	0	
15	Darling Plateau	Jarrah Valleys South	0	
16	Darling Plateau	Jarrah Valleys South East	0	
17	Darling Plateau	Karri Valleys	0	
18	Darling Plateau	Wandoo Valleys North	0	
19	Darling Plateau	Powder Bark Wandoo Valleys	0	
20	Darling Plateau	Granite Outcrops	0	
21	Various Systems	Esturies / Open Water	1	
22	Collie Plain	Uplands	0	
23	Collie Plain	Depressions / Swamps	0	
24	Dandaragan Plateau	Uplands	0	
25	Dandaragan Plateau	Valleys	0	
26	Swan Coastal Plain	Uplands	0	
27	Swan Coastal Plain	Valleys	0	
28	Southern Plains	Jarrah	0	
29	Southern Plains	Karri	0	
30	Southern Plains	Heath / Sedgeland	0	
31	South Coast Dunes	South Coast Dunes	0	
32	Blackwood Plateau	Jarrah Uplands	0	
33	Blackwood Plateau	Karri Uplands	0	
34	Blackwood Plateau	Depressions / Swamps	0	
35	Blackwood Plateau	Valleys	0	
36	Margaret River Plateau	Jarrah Uplands	0	
37	Margaret River Plateau	Karri Uplands	0	
38	Margaret River Plateau	Jarrah Valleys	0	
39	Margaret River Plateau	Karri Valleys	0	
40	Lewin Naturalist Coast	Jarrah	0	
41	Lewin Naturalist Coast	Marri/Karri	0	
42	Lewin Naturalist Coast	Coast Heath	0	
43	Scott Coastal Plain	Uplands	0	
44	Scott Coastal Plain	Valleys / Swamps	0	
45	Redmond	Uplands	0	
46	Redmond	Valleys	0	
47	Unicup	Jarrah Uplands	0	
48	Unicup	Wandoo Uplands	0	
49	Unicup	Jarrah Valleys	0	
50	Unicup	Wandoo Valleys	0	
51	Unicup	Scrubland	0	
53	Darling Plateau	Wandoo Uplands South	0	
54	Darling Plateau	Wandoo Valleys South	0	

## Appendix 2b

Fauna Habitat ID	FDIS LAND SYSTEM	FDIS LANDSCAPE UNIT	SCORE	Origin
Mullet				
1	Darling Plateau	Jarrah Uplands North	0	
2	Darling Plateau	Jarrah Uplands East	0	
3	Darling Plateau	Jarrah Uplands South	0	
4	Darling Plateau	Jarrah Uplands South East	0	
5	Darling Plateau	Karri Uplands	0	
6	Darling Plateau	Wandoo Uplands North	0	
7	Darling Plateau	Powder Bark Uplands	0	
8	Darling Plateau	Scarp	0	
9	Darling Plateau	Depression / Swamps North	0	
10	Darling Plateau	Depressions / Swamps South	0	
11	Darling Plateau	Depressions / Swamps East	0	
12	Darling Plateau	Depressions / Swamps South East	0	
13	Darling Plateau	Jarrah Valleys North	0	
14	Darling Plateau	Jarrah Valleys East	0	
15	Darling Plateau	Jarrah Valleys South	0	
16	Darling Plateau	Jarrah Valleys South East	0	
17	Darling Plateau	Karri Valleys	0	
18	Darling Plateau	Wandoo Valleys North	0	
19	Darling Plateau	Powder Bark Wandoo Valleys	0	
20	Darling Plateau	Granite Outcrops	0	
21	Various Systems	Esturies / Open Water	0	
22	Collie Plain	Uplands	0	
23	Collie Plain	Depressions / Swamps	0	
24	Dandaragan Plateau	Uplands	0	
25	Dandaragan Plateau	Valleys	0	
26	Swan Coastal Plain	Uplands	0	
27	Swan Coastal Plain	Valleys	0	
28	Southern Plains	Jarrah	0	
29	Southern Plains	Karri	0	
30	Southern Plains	Heath / Sedgeland	0	
31	South Coast Dunes	South Coast Dunes	0	
32	Blackwood Plateau	Jarrah Uplands	0	
33	Blackwood Plateau	Karri Uplands	0	
34	Blackwood Plateau	Depressions / Swamps	0	
35	Blackwood Plateau	Valleys	0	
36	Margaret River Plateau	Jarrah Uplands	0	
37	Margaret River Plateau	Karri Uplands	0	
38	Margaret River Plateau	Jarrah Valleys	0	
39	Margaret River Plateau	Karri Valleys	0	
40	Lewin Naturalist Coast	Jarrah	0	
41	Lewin Naturalist Coast	Marri/Karri	0	
42	Lewin Naturalist Coast	Coast Heath	0	
43	Scott Coastal Plain	Uplands	0	
44	Scott Coastal Plain	Valleys / Swamps	0	
45	Redmond	Uplands	0	
46	Redmond	Valleys	0	
47	Unicup	Jarrah Uplands	0	
48	Unicup	Wandoo Uplands	0	
49	Unicup	Jarrah Valleys	0	
50	Unicup	Wandoo Valleys	0	
51	Unicup	Scrubland	0	
53	Darling Plateau	Wandoo Uplands South	0	
54	Darling Plateau	Wandoo Valleys South	0	

## Appendix 2b

Fauna Habitat ID	FDIS LAND SYSTEM	FDIS LANDSCAPE UNIT	SCORE	Origin
Swan River Goby				
1	Darling Plateau	Jarrah Uplands North	0	
2	Darling Plateau	Jarrah Uplands East	0	
3	Darling Plateau	Jarrah Uplands South	0	
4	Darling Plateau	Jarrah Uplands South East	0	
5	Darling Plateau	Karri Uplands	0	
6	Darling Plateau	Wandoo Uplands North	0	
7	Darling Plateau	Powder Bark Uplands	0	
8	Darling Plateau	Scarp	0	
9	Darling Plateau	Depression / Swamps North	0	
10	Darling Plateau	Depressions / Swamps South	0	
11	Darling Plateau	Depressions / Swamps East	0	
12	Darling Plateau	Depressions / Swamps South East	0	
13	Darling Plateau	Jarrah Valleys North	0	
14	Darling Plateau	Jarrah Valleys East	0	
15	Darling Plateau	Jarrah Valleys South	0	
16	Darling Plateau	Jarrah Valleys South East	0	
17	Darling Plateau	Karri Valleys	0	
18	Darling Plateau	Wandoo Valleys North	0	
19	Darling Plateau	Powder Bark Wandoo Valleys	0	
20	Darling Plateau	Granite Outcrops	0	
21	Various Systems	Esturies / Open Water	1	
22	Collie Plain	Uplands	0	
23	Collie Plain	Depressions / Swamps	0	
24	Dandaragan Plateau	Uplands	0	
25	Dandaragan Plateau	Valleys	0	
26	Swan Coastal Plain	Uplands	0	
27	Swan Coastal Plain	Valleys	0	
28	Southern Plains	Jarrah	0	
29	Southern Plains	Karri	0	
30	Southern Plains	Heath / Sedgeland	0	
31	South Coast Dunes	South Coast Dunes	0	
32	Blackwood Plateau	Jarrah Uplands	0	
33	Blackwood Plateau	Karri Uplands	0	
34	Blackwood Plateau	Depressions / Swamps	0	
35	Blackwood Plateau	Valleys	0	
36	Margaret River Plateau	Jarrah Uplands	0	
37	Margaret River Plateau	Karri Uplands	0	
38	Margaret River Plateau	Jarrah Valleys	0	
39	Margaret River Plateau	Karri Valleys	0	
40	Lewin Naturalist Coast	Jarrah	0	
41	Lewin Naturalist Coast	Marri/Karri	0	
42	Lewin Naturalist Coast	Coast Heath	0	
43	Scott Coastal Plain	Uplands	0	
44	Scott Coastal Plain	Valleys / Swamps	0	
45	Redmond	Uplands	0	
46	Redmond	Valleys	0	
47	Unicup	Jarrah Uplands	0	
48	Unicup	Wandoo Uplands	0	
49	Unicup	Jarrah Valleys	0	
50	Unicup	Wandoo Valleys	0	
51	Unicup	Scrubland	0	
53	Darling Plateau	Wandoo Uplands South	0	
54	Darling Plateau	Wandoo Valleys South	0	

## Appendix 2b

Fauna Habitat ID	FDIS LAND SYSTEM	FDIS LANDSCAPE UNIT	SCORE	Origin
Rainbow Trout *				
1	Darling Plateau	Jarrah Uplands North	0	
2	Darling Plateau	Jarrah Uplands East	0	
3	Darling Plateau	Jarrah Uplands South	0	
4	Darling Plateau	Jarrah Uplands South East	0	
5	Darling Plateau	Karri Uplands	0	
6	Darling Plateau	Wandoo Uplands North	0	
7	Darling Plateau	Powder Bark Uplands	0	
8	Darling Plateau	Scarp	0	
9	Darling Plateau	Depression / Swamps North	0	
10	Darling Plateau	Depressions / Swamps South	0	
11	Darling Plateau	Depressions / Swamps East	0	
12	Darling Plateau	Depressions / Swamps South East	0	
13	Darling Plateau	Jarrah Valleys North	0	
14	Darling Plateau	Jarrah Valleys East	0	
15	Darling Plateau	Jarrah Valleys South	0	
16	Darling Plateau	Jarrah Valleys South East	0	
17	Darling Plateau	Karri Valleys	0	
18	Darling Plateau	Wandoo Valleys North	0	
19	Darling Plateau	Powder Bark Wandoo Valleys	0	
20	Darling Plateau	Granite Outcrops	0	
21	Various Systems	Esturies / Open Water	2	
22	Collie Plain	Uplands	0	
23	Collie Plain	Depressions / Swamps	0	
24	Dandaragan Plateau	Uplands	0	
25	Dandaragan Plateau	Valleys	0	
26	Swan Coastal Plain	Uplands	0	
27	Swan Coastal Plain	Valleys	0	
28	Southern Plains	Jarrah	0	
29	Southern Plains	Karri	0	
30	Southern Plains	Heath / Sedgeland	0	
31	South Coast Dunes	South Coast Dunes	0	
32	Blackwood Plateau	Jarrah Uplands	0	
33	Blackwood Plateau	Karri Uplands	0	
34	Blackwood Plateau	Depressions / Swamps	0	
35	Blackwood Plateau	Valleys	0	
36	Margaret River Plateau	Jarrah Uplands	0	
37	Margaret River Plateau	Karri Uplands	0	
38	Margaret River Plateau	Jarrah Valleys	0	
39	Margaret River Plateau	Karri Valleys	0	
40	Lewin Naturalist Coast	Jarrah	0	
41	Lewin Naturalist Coast	Marri/Karri	0	
42	Lewin Naturalist Coast	Coast Heath	0	
43	Scott Coastal Plain	Uplands	0	
44	Scott Coastal Plain	Valleys / Swamps	0	
45	Redmond	Uplands	0	
46	Redmond	Valleys	0	
47	Unicup	Jarrah Uplands	0	
48	Unicup	Wandoo Uplands	0	
49	Unicup	Jarrah Valleys	0	
50	Unicup	Wandoo Valleys	0	
51	Unicup	Scrubland	0	
53	Darling Plateau	Wandoo Uplands South	0	
54	Darling Plateau	Wandoo Valleys South	0	

## Appendix 2b

Fauna Habitat ID	FDIS LAND SYSTEM	FDIS LANDSCAPE UNIT	SCORE	Origin
Brown Trout *				
1	Darling Plateau	Jarrah Uplands North	0	
2	Darling Plateau	Jarrah Uplands East	0	
3	Darling Plateau	Jarrah Uplands South	0	
4	Darling Plateau	Jarrah Uplands South East	0	
5	Darling Plateau	Karri Uplands	0	
6	Darling Plateau	Wandoo Uplands North	0	
7	Darling Plateau	Powder Bark Uplands	0	
8	Darling Plateau	Scarp	0	
9	Darling Plateau	Depression / Swamps North	0	
10	Darling Plateau	Depressions / Swamps South	0	
11	Darling Plateau	Depressions / Swamps East	0	
12	Darling Plateau	Depressions / Swamps South East	0	
13	Darling Plateau	Jarrah Valleys North	0	
14	Darling Plateau	Jarrah Valleys East	0	
15	Darling Plateau	Jarrah Valleys South	0	
16	Darling Plateau	Jarrah Valleys South East	0	
17	Darling Plateau	Karri Valleys	0	
18	Darling Plateau	Wandoo Valleys North	0	
19	Darling Plateau	Powder Bark Wandoo Valleys	0	
20	Darling Plateau	Granite Outcrops	0	
21	Various Systems	Esturies / Open Water	2	
22	Collie Plain	Uplands	0	
23	Collie Plain	Depressions / Swamps	0	
24	Dandaragan Plateau	Uplands	0	
25	Dandaragan Plateau	Valleys	0	
26	Swan Coastal Plain	Uplands	0	
27	Swan Coastal Plain	Valleys	0	
28	Southern Plains	Jarrah	0	
29	Southern Plains	Karri	0	
30	Southern Plains	Heath / Sedgeland	0	
31	South Coast Dunes	South Coast Dunes	0	
32	Blackwood Plateau	Jarrah Uplands	0	
33	Blackwood Plateau	Karri Uplands	0	
34	Blackwood Plateau	Depressions / Swamps	0	
35	Blackwood Plateau	Valleys	0	
36	Margaret River Plateau	Jarrah Uplands	0	
37	Margaret River Plateau	Karri Uplands	0	
38	Margaret River Plateau	Jarrah Valleys	0	
39	Margaret River Plateau	Karri Valleys	0	
40	Lewin Naturalist Coast	Jarrah	0	
41	Lewin Naturalist Coast	Marri/Karri	0	
42	Lewin Naturalist Coast	Coast Heath	0	
43	Scott Coastal Plain	Uplands	0	
44	Scott Coastal Plain	Valleys / Swamps	0	
45	Redmond	Uplands	0	
46	Redmond	Valleys	0	
47	Unicup	Jarrah Uplands	0	
48	Unicup	Wandoo Uplands	0	
49	Unicup	Jarrah Valleys	0	
50	Unicup	Wandoo Valleys	0	
51	Unicup	Scrubland	0	
53	Darling Plateau	Wandoo Uplands South	0	
54	Darling Plateau	Wandoo Valleys South	0	

## Appendix 2b

Fauna Habitat ID	FDIS LAND SYSTEM	FDIS LANDSCAPE UNIT	SCORE	Origin
Carp *				
1	Darling Plateau	Jarrah Uplands North	0	
2	Darling Plateau	Jarrah Uplands East	0	
3	Darling Plateau	Jarrah Uplands South	0	
4	Darling Plateau	Jarrah Uplands South East	0	
5	Darling Plateau	Karri Uplands	0	
6	Darling Plateau	Wandoo Uplands North	0	
7	Darling Plateau	Powder Bark Uplands	0	
8	Darling Plateau	Scarp	0	
9	Darling Plateau	Depression / Swamps North	0	
10	Darling Plateau	Depressions / Swamps South	0	
11	Darling Plateau	Depressions / Swamps East	0	
12	Darling Plateau	Depressions / Swamps South East	0	
13	Darling Plateau	Jarrah Valleys North	0	
14	Darling Plateau	Jarrah Valleys East	0	
15	Darling Plateau	Jarrah Valleys South	0	
16	Darling Plateau	Jarrah Valleys South East	0	
17	Darling Plateau	Karri Valleys	0	
18	Darling Plateau	Wandoo Valleys North	0	
19	Darling Plateau	Powder Bark Wandoo Valleys	0	
20	Darling Plateau	Granite Outcrops	0	
21	Various Systems	Esturies / Open Water	0	
22	Collie Plain	Uplands	0	
23	Collie Plain	Depressions / Swamps	0	
24	Dandaragan Plateau	Uplands	0	
25	Dandaragan Plateau	Valleys	0	
26	Swan Coastal Plain	Uplands	0	
27	Swan Coastal Plain	Valleys	0	
28	Southern Plains	Jarrah	0	
29	Southern Plains	Karri	0	
30	Southern Plains	Heath / Sedgeland	0	
31	South Coast Dunes	South Coast Dunes	0	
32	Blackwood Plateau	Jarrah Uplands	0	
33	Blackwood Plateau	Karri Uplands	0	
34	Blackwood Plateau	Depressions / Swamps	0	
35	Blackwood Plateau	Valleys	0	
36	Margaret River Plateau	Jarrah Uplands	0	
37	Margaret River Plateau	Karri Uplands	0	
38	Margaret River Plateau	Jarrah Valleys	0	
39	Margaret River Plateau	Karri Valleys	0	
40	Lewin Naturalist Coast	Jarrah	0	
41	Lewin Naturalist Coast	Marri/Karri	0	
42	Lewin Naturalist Coast	Coast Heath	0	
43	Scott Coastal Plain	Uplands	0	
44	Scott Coastal Plain	Valleys / Swamps	0	
45	Redmond	Uplands	0	
46	Redmond	Valleys	0	
47	Unicup	Jarrah Uplands	0	
48	Unicup	Wandoo Uplands	0	
49	Unicup	Jarrah Valleys	0	
50	Unicup	Wandoo Valleys	0	
51	Unicup	Scrubland	0	
53	Darling Plateau	Wandoo Uplands South	0	
54	Darling Plateau	Wandoo Valleys South	0	

## Appendix 2b

Fauna Habitat ID	FDIS LAND SYSTEM	FDIS LANDSCAPE UNIT	SCORE	Origin
Mosquito Fish *				
1	Darling Plateau	Jarrah Uplands North	0	
2	Darling Plateau	Jarrah Uplands East	0	
3	Darling Plateau	Jarrah Uplands South	0	
4	Darling Plateau	Jarrah Uplands South East	0	
5	Darling Plateau	Karri Uplands	0	
6	Darling Plateau	Wandoo Uplands North	0	
7	Darling Plateau	Powder Bark Uplands	0	
8	Darling Plateau	Scarp	0	
9	Darling Plateau	Depression / Swamps North	0	
10	Darling Plateau	Depressions / Swamps South	0	
11	Darling Plateau	Depressions / Swamps East	0	
12	Darling Plateau	Depressions / Swamps South East	0	
13	Darling Plateau	Jarrah Valleys North	0	
14	Darling Plateau	Jarrah Valleys East	0	
15	Darling Plateau	Jarrah Valleys South	0	
16	Darling Plateau	Jarrah Valleys South East	0	
17	Darling Plateau	Karri Valleys	0	
18	Darling Plateau	Wandoo Valleys North	0	
19	Darling Plateau	Powder Bark Wandoo Valleys	0	
20	Darling Plateau	Granite Outcrops	0	
21	Various Systems	Esturies / Open Water	2	
22	Collie Plain	Uplands	0	
23	Collie Plain	Depressions / Swamps	0	
24	Dandaragan Plateau	Uplands	0	
25	Dandaragan Plateau	Valleys	2	
26	Swan Coastal Plain	Uplands	0	
27	Swan Coastal Plain	Valleys	0	
28	Southern Plains	Jarrah	0	
29	Southern Plains	Karri	0	
30	Southern Plains	Heath / Sedgeland	0	
31	South Coast Dunes	South Coast Dunes	0	
32	Blackwood Plateau	Jarrah Uplands	0	
33	Blackwood Plateau	Karri Uplands	0	
34	Blackwood Plateau	Depressions / Swamps	0	
35	Blackwood Plateau	Valleys	3	
36	Margaret River Plateau	Jarrah Uplands	0	
37	Margaret River Plateau	Karri Uplands	0	
38	Margaret River Plateau	Jarrah Valleys	3	
39	Margaret River Plateau	Karri Valleys	3	
40	Lewin Naturalist Coast	Jarrah	0	
41	Lewin Naturalist Coast	Marri/Karri	0	
42	Lewin Naturalist Coast	Coast Heath	0	
43	Scott Coastal Plain	Uplands	0	
44	Scott Coastal Plain	Valleys / Swamps	0	
45	Redmond	Uplands	0	
46	Redmond	Valleys	3	
47	Unicup	Jarrah Uplands	0	
48	Unicup	Wandoo Uplands	0	
49	Unicup	Jarrah Valleys	2	
50	Unicup	Wandoo Valleys	0	
51	Unicup	Scrubland	0	
53	Darling Plateau	Wandoo Uplands South	0	
54	Darling Plateau	Wandoo Valleys South	0	

## Appendix 2b

Fauna Habitat ID	FDIS LAND SYSTEM	FDIS LANDSCAPE UNIT	SCORE	Origin
Redfin Perch *				
1	Darling Plateau	Jarrah Uplands North	0	
2	Darling Plateau	Jarrah Uplands East	0	
3	Darling Plateau	Jarrah Uplands South	0	
4	Darling Plateau	Jarrah Uplands South East	0	
5	Darling Plateau	Karri Uplands	0	
6	Darling Plateau	Wandoo Uplands North	0	
7	Darling Plateau	Powder Bark Uplands	0	
8	Darling Plateau	Scarp	0	
9	Darling Plateau	Depression / Swamps North	0	
10	Darling Plateau	Depressions / Swamps South	0	
11	Darling Plateau	Depressions / Swamps East	0	
12	Darling Plateau	Depressions / Swamps South East	0	
13	Darling Plateau	Jarrah Valleys North	0	
14	Darling Plateau	Jarrah Valleys East	0	
15	Darling Plateau	Jarrah Valleys South	0	
16	Darling Plateau	Jarrah Valleys South East	0	
17	Darling Plateau	Karri Valleys	0	
18	Darling Plateau	Wandoo Valleys North	0	
19	Darling Plateau	Powder Bark Wandoo Valleys	0	
20	Darling Plateau	Granite Outcrops	0	
21	Various Systems	Esturies / Open Water	0	
22	Collie Plain	Uplands	0	
23	Collie Plain	Depressions / Swamps	0	
24	Dandaragan Plateau	Uplands	0	
25	Dandaragan Plateau	Valleys	0	
26	Swan Coastal Plain	Uplands	0	
27	Swan Coastal Plain	Valleys	0	
28	Southern Plains	Jarrah	0	
29	Southern Plains	Karri	0	
30	Southern Plains	Heath / Sedgeland	0	
31	South Coast Dunes	South Coast Dunes	0	
32	Blackwood Plateau	Jarrah Uplands	0	
33	Blackwood Plateau	Karri Uplands	0	
34	Blackwood Plateau	Depressions / Swamps	0	
35	Blackwood Plateau	Valleys	0	
36	Margaret River Plateau	Jarrah Uplands	0	
37	Margaret River Plateau	Karri Uplands	0	
38	Margaret River Plateau	Jarrah Valleys	0	
39	Margaret River Plateau	Karri Valleys	0	
40	Lewin Naturalist Coast	Jarrah	0	
41	Lewin Naturalist Coast	Marri/Karri	0	
42	Lewin Naturalist Coast	Coast Heath	0	
43	Scott Coastal Plain	Uplands	0	
44	Scott Coastal Plain	Valleys / Swamps	0	
45	Redmond	Uplands	0	
46	Redmond	Valleys	0	
47	Unicup	Jarrah Uplands	0	
48	Unicup	Wandoo Uplands	0	
49	Unicup	Jarrah Valleys	0	
50	Unicup	Wandoo Valleys	0	
51	Unicup	Scrubland	0	
53	Darling Plateau	Wandoo Uplands South	0	
54	Darling Plateau	Wandoo Valleys South	0	



### Appendix 3.

#### Predicted duration of disturbance on fauna following timber harvesting and regeneration.

##### Tables overleaf

##### Species response.

		disappears
		stable population
		declining population
		increasing population

##### Forest growth stages

Establishment forest = 0 to 12 - 15 years

Juvenile forest = 12 - 15 to 50 - 60 years

Young forest = 50 - 60 to 120 - 150 years

Mature forest = >150 years

##### Species Status

1 = Schedule 1 - Fauna which is rare or likely to become extinct

2 = Schedule 2 - Fauna presumed extinct

4 = Schedule 4 - Other specially protected fauna

P = CALM protected fauna

E = Exotic fauna.

## Mammals

Species	Status	Establishment Forest	Juvenile Forest	Young Forest	Mature Forest	Treatment Effect on Critical Habitat
Western Grey kangaroo ( <i>Macropus fuliginosus</i> )						Opening forest encourages Roos and Brushes Following logging
Western Brush Wallaby ( <i>Macropus irma</i> )						
Tamar Wallaby 2 & 3 ( <i>Macropus eugenii</i> )	1					Temporary effect on thickets
Quokka 1 ( <i>Setonix brachyurus</i> )	1					Temporary effect on thickets *
Brush-tailed Bettong or Woylie ( <i>Bettongia penicillata</i> )	2					Effect minimal
Common Brushtail Possum ( <i>Trichosurus vulpecula</i> )						Reduced number of large hollows **
Western Ringtail Possum ( <i>Pseudocheirus occidentalis</i> )	1					Reduced number of large hollows **
Western Pygmy possum ( <i>Cercartetus concinnus</i> )						Small hollows reduced
Honey Possum ( <i>Tarsipes rostratus</i> )						Habitat not affected
Southern Brown Bandicoot ( <i>Isodon obesulus</i> )	1					Improved habitat initially dense cover
Western Quoll or Chuditch ( <i>Dasyurus geoffroii</i> )	1					Logs increase
Red-tailed Phascogale ( <i>Phascogale calura</i> )		D	D	S	S	Habitat not currently cut
Brush-tailed Phascogale ( <i>Phascogale tapoatafa</i> )	2					Decrease in small hollows
Yellow-footed Antechinus or Mardo ( <i>Antechinus flavipes</i> )	4					Dense regrowth increase litter and logs
Grey-bellied Dunnart ( <i>Sminthopsis griseoventer</i> )						Increase logs
Gilberts Dunnart ( <i>Sminthopsis gilberti</i> )						Open woodland, heath
Numbat 5 ( <i>Myrmecobius fasciatus</i> )	1					Forest where Numbat occur not logged
Bush Rat 1 ( <i>Rattus fuscipes</i> )						Initial increase in ground cover
Water-rat ( <i>Hydromys chrysogaster</i> )						No effect on habitat
Southern Freetail Bat ( <i>Marmopterus planiceps</i> )						Forages over canopy
Gould's Long-eared bat ( <i>Nyctophilus gouldi</i> )		G	I	I	S	Forages in dense undergrowth
Greater Long-eared Bat ( <i>Nyctophilus timoriensis</i> )						Habitat trees should provide hollows enough
Lesser Long eared Bat ( <i>Nyctophilus geoffroyi</i> )						This species may benefit from more open area
Gould's Wattleed Bat ( <i>Chalinolobus gouldii</i> )						Forages below canopy

\* Fox predation could affect numbers seriously in some areas.

\*\* If fox numbers are controlled, Possums may remain stable.

Species	Status	Establishment Forest	Juvenile Forest	Young Forest	Mature Forest	Treatment Effect on Critical Habitat
Chocolate Wattled Bat ( <i>Chalinolobus morio</i> )						May benefit initially more open
King River Eptesicus ( <i>Eptesicus regulus</i> )						Forages below canopy level
Western False Pipistrelle ( <i>Falsistrellus mackenziei</i> )						Forages below canopy level
White-striped Freetail-bat ( <i>Nyctinomus australis</i> )						High flying bat
Echidna ( <i>Tachyglossus aculeatus</i> )						No effect on critical habitat characteristics

N.B. Most bat species should find sufficient tree hollows left following logging not to be unduly affected by this.

<b><u>INTRODUCED</u></b>	Status	Establishment Forest	Juvenile Forest	Young Forest	Mature Forest	Treatment Effect on Critical Habitat
Cat ( <i>Felis catus</i> )						No effect
Dingo ( <i>Canis familiaris dingo</i> )						No effect
Goat ( <i>Capra hircus</i> )						Initial opening of forest
Horse ( <i>Equus caballus</i> )						Initial opening of forest
House Mouse ( <i>Mus musculus</i> )						Initial increases with disturbance of litter
Black Rat ( <i>Rattus rattus</i> )						Habitat not affected
Rabbit ( <i>Oryctolagus cuniculus</i> )						Initial opening up favours habitats
Fox ( <i>Vulpes vulpes</i> )						Initial opening up favours habitats
Pig ( <i>Sus scrofa</i> )						No effect

1. Christensen and Kimber (1975)
2. Christensen (1980)
3. Christensen and Maisey (1987)
4. Sawle (1979)
5. Christensen *et al* (1984)

## BIRDS

Species	Status	Establishment Forest	Juvenile Forest	Young Forest	Mature Forest	Treatment Effect on Critical Habitat
Emu ( <i>Dromaius novae-hollandiae</i> )						Initial opening of Forest favours
Australasian Little Grebe ( <i>Tachybaptus novaehollandiae</i> )						No disturbance of habitat
Hoary-headed Grebe ( <i>Poliiocephalus poliocephalus</i> )						No disturbance of habitat
Darter ( <i>Anhinga melanogaster</i> )						No disturbance of Habitat
Little black Cormorant ( <i>phalacrocorax sulcirostris</i> )						No disturbance of Habitat
Little Pied Cormorant ( <i>Phalacrocorax melanoleucos</i> )						No disturbance of Habitat
Pacific Heron ( <i>Ardea pacifica</i> )						No disturbance of Habitat
White-faced Heron ( <i>Ardea novaehollandiae</i> )						No disturbance of Habitat
Great Egret ( <i>Egretta alba</i> )						No disturbance of Habitat
Rufous Night Heron ( <i>Nycticorax caledonicus</i> )						Disturbance of Riverine area, Temporary
Little Bittern ( <i>Ixobrychus minutus</i> )						No disturbance of Habitat
Black Bittern ( <i>Dupetor flavicollis</i> )						No disturbance of Habitat
Australasian Bittern ( <i>Botaurus poiciloptilus</i> )	1					No disturbance of Habitat
Glossy Ibis ( <i>Plegadis falcinellus</i> )						No disturbance of Habitat
Australian White Ibis ( <i>Threskiornis molucca</i> )						No disturbance of Habitat
Straw-necked Ibis ( <i>Threskiornis spinicollis</i> )						No disturbance of Habitat
Yellow-billed Spoonbill ( <i>Platalea flavipes</i> )						No disturbance of Habitat
Black Swan ( <i>Cygnus atratus</i> )						No disturbance of Habitat
Freckled Duck ( <i>Stictonetta naevosa</i> )	1					No disturbance of Habitat
Australian Shelduck ( <i>Tadorna tadornoides</i> )						No disturbance of Habitat *
Pacific Black Duck ( <i>Anas superciliosa</i> )						No disturbance of Habitat *
Grey Teal ( <i>Anas gibberifrons</i> )						No disturbance of Habitat *
Chestnut Teal ( <i>Anas castanea</i> )						No disturbance of Habitat *

\* Hollow nesters – it is considered that so few occur near forest coupes that there will be no effect.

Species	Status	Establishment Forest	Juvenile forest	Young Forest	Mature Forest	Treatment effect on critical habitat
Australasian Shoveler ( <i>Anas rhynchotis</i> )						No effect On habitat
Pink-eared Duck ( <i>Malacorhynchus membranaceus</i> )						No effect On habitat
Hardhead ( <i>Aythya australis</i> )						No effect On habitat
Maned Duck ( <i>Chenonetta jubata</i> )						No effect On habitat
Blue-billed Duck ( <i>Oxyura australis</i> )						No effect On habitat
Musk Duck ( <i>Biziura lobata</i> )						No effect On habitat
Osprey ( <i>Pandion haliaetus</i> )						No effect On habitat
Black-shouldered Kite ( <i>Elanus notatus</i> )						No effect On habitat
Square-tailed Kite ( <i>Lophoictinia isura</i> )						No effect On habitat
Whistling Kite ( <i>Haliastur sphenurus</i> )						No effect On habitat
Brown Goshawk ( <i>Accipiter fasciatus</i> )						May be affected By dense regrowth
Collared Sparrowhawk ( <i>Accipiter cirrhocephalus</i> )						May be affected By dense regrowth
Wedge-tailed Eagle ( <i>Aquila audax</i> )						May be affected By dense regrowth
Little Eagle ( <i>Hieraaetus morphnoides</i> )						Habitat not affected
Spotted Harrier ( <i>Circus assimilis</i> )						Habitat not affected
Marsh Harrier ( <i>Circus aeruginosus</i> )						Habitat not affected
Peregrine Falcon ( <i>Falco peregrinus</i> )	4					Habitat not affected
Austrlian Hobby ( <i>Falco longipennis</i> )						Habitat not affected
Brown Falcon ( <i>Falco berigora</i> )						Habitat not affected
Australian Kestrel ( <i>Falco cenchroides</i> )						Habitat not affected

Species	Status	Establishment Forest	Juvenile Forest	Young Forest	Mature Forest	Treatment effect on critical habitat
Malleefowl ( <i>Leipoa ocellata</i> )	1					Birds in karri may Increase initially *
Stubble Quail ( <i>Coturnix novaezelandiae</i> )						Initial opening may Benefit
Brown Quail ( <i>Coturnix australis</i> )						Habitat not affected
Painted Button-quail ( <i>Turnix varia</i> )						Initial opening may Benefit
Little Button-quail ( <i>Turnix velox</i> )						Initial opening may Benefit
Buff-banded Rail ( <i>Rallus philippensis</i> )						Habitat not Affected
Lewin's Rail ( <i>Rallus pectoralis</i> )						Habitat not Affected
Ballion's Crake ( <i>Porzana pusilla</i> )						Habitat not affected
Spotted Crake ( <i>Porzana fluminea</i> )						Habitat not affected
Spotless Crake ( <i>Porzana tabuensis</i> )						Habitat not Affected
Black-tailed Native hen ( <i>Gallinula ventralis</i> )						Habitat not Affected
Dusky Moorhen ( <i>Gallinula tenebrosa</i> )	2					Habitat not Affected
Purple Swamphen ( <i>Porphyrio porphyrio</i> )						Habitat not Affected
Eurasian Coot ( <i>Fulica atra</i> )						Habitat not Affected
Australian Bustard ( <i>Ardeotis australis</i> )						Habitat not Affected
Bush Stone-curlew (Bush Thick-knee) ( <i>Burhinus grallarius</i> )						Habitat not Affected
Australian Painted Snipe ( <i>Rostratula benghalensis</i> )						Habitat not Affected
Banded Lapwing ( <i>Vanellus tricolor</i> )						Habitat not Affected
Red-kneed Dotterel ( <i>Erythronyx cinctus</i> )						Habitat not Affected
Red-capped Plover ( <i>Charadrius ruficapillus</i> )						Habitat not Affected
Black-fronted Plover ( <i>Charadrius melanops</i> )						Habitat not Affected

\* Especially with fox baiting.

Species	Status	Establishment Forest	Juvenile Forest	Young Forest	Mature Forest	Treatment effect on critical habitat
Spotted Turtle-Dove ( <i>Streptopelia chinensis</i> )						Habitat not affected
Laughing Turtle-Dove ( <i>Streptopelia senegalensis</i> )						Habitat not affected
Common Bronzewing ( <i>Phaps chalcoptera</i> )						Increase in wattle May benefit initially
Brush Bronzewing ( <i>Phaps elegans</i> )						Increase in wattle May benefit initially
Crested Pigeon ( <i>Ocyphaps lophotes</i> )						Habitat not affected
Red-tailed Black Cockatoo ( <i>Calyptorhynchus magnificus</i> )	2					Large hollows Should be sufficient To maintain number
Western Long-billed Corella ( <i>Cacatua pastinator pastinator</i> )	1					Habitat not affected
Baudin's Cockatoo ( <i>Calyptorhynchus baudinii</i> )	1					Large hollows Should be sufficient
Carnaby's Cockatoo ( <i>Calyptorhynchus latirostris</i> )	1					Habitat not affected
Galah ( <i>Cacatua roseicapilla</i> )						Habitat not affected
Little Corella ( <i>Cacatua sanguinea</i> )						Habitat not affected
Sulphur-crested Cockatoo ( <i>Cacatua galerita</i> )						Habitat not affected
Purple-crowned Lorikeet ( <i>Glossopsitta porphyrocephal</i> )						Nectar reduced Initially especially In karri
Regent Parrot ( <i>Polytelis anthopeplus</i> )						Habitat not affected
Budgerigar ( <i>Melopsittacus undulatus</i> )						Habitat not affected
Red-capped Parrot ( <i>Purpurecephalus spurius</i> )						Hollows in reserve Should suffice

Species	Status	Establishment Forest	Juvenile Forest	Young Forest	Mature Forest	Treatment effect on critical habitat
Western Rosella ( <i>Platycercus icterotis</i> )						Increase in understorey density
Port Lincoln Ringneck ( <i>Barnardius zonarius</i> )						Increase in understorey density
Elegant Parrot ( <i>Neophema elegans</i> )						Habitat not affected
Rock Parrot ( <i>Neophema petrophila</i> )						Habitat not affected
Pallid Cuckoo ( <i>Cuculus pallidus</i> )						Open favours, closed affects
Fan-tailed Cuckoo ( <i>Cuculus pyrrhophanus</i> )						Mid storey species
Horsefield's Bronze Cuckoo ( <i>Chrysococcyx basalis</i> )						Open forest, woodland
Shining Bronze Cuckoo ( <i>Chrysococcyx lucidus</i> )						Mid and upper canopy
Southern Boobook ( <i>Ninox novaeseelandiae</i> )						Change in forest density
Barking Owl ( <i>Ninox connivens</i> )		S	S	S	S	Habitat, woodland, not affected
Barn Owl ( <i>Tyto alba</i> )						Habitat not affected
Masked Owl ( <i>Tyto novaehollandiae</i> )	2					Change in forest density
Tawny Frogmouth ( <i>Podargus strigoides</i> )						Change in forest density
Australian Owlet nightjar ( <i>Aegotheles cristatus</i> )						Change in forest density
Spotted Nightjar ( <i>Caprimulgus guttatus</i> )						Habitat not affected
Fork-tailed Swift ( <i>Apus pacificus</i> )						Habitat not affected
Laughing Kookaburra ( <i>Dacelo novaeguineae</i> )						Changes in forest density
Sacred Kingfisher ( <i>Halcyon sancta</i> )						Changes in forest density
Rainbow Bee-eater ( <i>Merops ornatus</i> )						Habitat not affected
Noisy Scrub Bird ( <i>Atrichornis clamosus</i> )		G?	I?	S?	S?	If releases invade timber cutting areas
White-backed Swallow ( <i>Cheramoeca leucosternum</i> )						Habitat not affected
Welcome Swallow ( <i>Hirundo neoxena</i> )						Habitat not affected
Tree Martin ( <i>Cecropis nigricans</i> )						Opening forest
Fairy Martin ( <i>Cecropis ariel</i> )						Habitat not affected
Richard's Pipit ( <i>Anthus novaeseelandiae</i> )						Invader during first year



Species	Status	Establishment Forest	Juvenile Forest	Young Forest	Mature Forest	Treatment effect on critical habitat
Black-faced Cuckoo shrike ( <i>Coracina novaehollandiae</i> )						Change in forest density
White-winged Triller ( <i>Lalage sueurii</i> )						Invader during first year or two
Scarlet Robin ( <i>Petroica goodenovii</i> )						Change in forest density
Red-capped Robin ( <i>Petroica goodenovii</i> )						Habitat not affected
Hooded Robin ( <i>Melanodryas cucullata</i> )						Habitat not affected
White-breasted Robin ( <i>Eopsaltria georgiana</i> )						Change in forest density
Western Yellow Robin ( <i>Eopsaltria griseogularis</i> )						Change in forest density
Crested Shrike-tit ( <i>Falcunculus frontatus</i> )	P					Change in forest density
Golden Whistler ( <i>Pachycephala pectoralis</i> )						Change in forest density
Rufous Whistler ( <i>Pachycephala rufiventris</i> )						Habitat not affected
Grey Shrike-thrush ( <i>Colluricincla harmonica</i> )						Mid storey species
Crested Bellbird ( <i>Oreoica gutturalis</i> )						Habitat not affected
Restless Flycatcher ( <i>Myiagra inquieta</i> )						Change in forest density
Grey Fantail ( <i>Rhipidura fuliginosa</i> )						Change in forest density
Willie Wagtail ( <i>Rhipidura leucophrys</i> )						Change in forest density
Western Whip bird ( <i>Psophodes nigrogularis</i> )						Habitat not affected
Chestnut Quail-thrush ( <i>Cinlosoma castanotum</i> )						Habitat not affected density
White-browed Babbler ( <i>Pomatostomus superciliosus</i> )						Change in forest density
Clamorous Reed-Warbler ( <i>Acrocephalus stentoreus</i> )						Habitat not affected
Little Grassbird ( <i>Megalurus gramineus</i> )						Habitat not affected
Rufous Songlark ( <i>Cinlorhamphus mathewsi</i> )						Habitat not affected
Brown Songlark ( <i>Cinlorhamphus cruralis</i> )						Habitat not affected
Spendid Fairy-wren ( <i>Malurus splendens</i> )						Change in scrub density
Blue-breasted Fairy-wren ( <i>Malurus pulcherrimus</i> )						Habitat not affected

Species	Status	Establishment Forest	Juvenile Forest	Young Forest	Mature Forest	Treatment effect on critical habitat
Red-winged Fairy-wren ( <i>Malurus elegans</i> )						Increase in scrub density
White-winged Fairy-wren ( <i>Malurus leucopterus</i> )						Habitat not affected
Southern Emu-wren ( <i>Stipiturus malachurus</i> )						Habitat not affected
Western Bristle bird ( <i>Dasyornis longirostris</i> )		S	S	S	S	Habitat not affected
White-browed Scrubwren ( <i>Sericornis frontalis</i> )						Increase in scrub density
Weebill ( <i>Smicromis brevirostris</i> )						Increase in density of forest
Calamanthus ( <i>Calamanthus fuliginosus</i> )						Habitat not affected
Western Gerygone ( <i>Gerygone fusca</i> )						Increase in density of forest
Inland Thornbill ( <i>Acanthiza apicalis</i> )						Increase in density of forest
Western Thornbill ( <i>Acanthiza inornata</i> )						Increase in density of forest
Yellow-rumped Thornbill ( <i>Acanthiza chrysorrhoa</i> )						Opening of forest
Varied Sittella ( <i>Daphoenositta chrysoptera</i> )						Feeds on tree bark
Rufous Treecreeper ( <i>Climacteris rufa</i> )						Feeds on tree bark
Red Wattlebird ( <i>Anthochaera carunculata</i> )						Mid upper canopy
Little Wattlebird ( <i>Anthochaera chrysoptera</i> )						Mid upper canopy
Yellow-throated Miner ( <i>Manorina flavigula</i> )						Habitat not affected
Singing Honeyeater ( <i>Lichenostomus virescens</i> )						Habitat not affected
White-eared Honeyeater ( <i>Lichenostomus leucotis</i> )						Habitat not affected
Yellow-plumed Honeyeater ( <i>Lichenostomus ornatus</i> )						Habitat not affected
Brown-headed Honeyeater ( <i>Melithreptus brevirostris</i> )						Habitat not affected
White-naped Honeyeater ( <i>Melithreptus lunatus</i> )						Increase in forest density
Brown Honeyeater ( <i>Lichmera indistincta</i> )						Habitat not affected

Species	Status	Establishment Forest	Juvenile Forest	Young Forest	Mature Forest	Treatment effect on critical habitat
New Holland Honeyeater ( <i>Phylidonyris novaehollandiae</i> )						Understory increase
White-cheeked Honeyeater ( <i>Phylidonyris nigra</i> )						Habitat not affected
Tawny-crowned Honeyeater ( <i>Phylidonyris melanops</i> )						Habitat not affected
Western Spinebill ( <i>Acanthorhynchus superciliosus</i> )						Understory changes
White-fronted Chat ( <i>Ephthianura albifrons</i> )						Habitat not affected
Mistletoebird ( <i>Dicaeum hirundinaceum</i> )						Habitat not affected
Spotted Pardalote ( <i>Pardalotus punctatus</i> )						Canopy species *
Striated Pardalote ( <i>Pardalotus striatus</i> )						Canopy species *
Silvereeye ( <i>Zosterops lateralis</i> )						Increased density *
Red-eared Firetail ( <i>Emblema oculata</i> )	<b>P</b>					Scrub density increase *
Australian Magpie-lark ( <i>Grallina cyanoleuca</i> )						Habitat not affected
Black-faced Woodswallow ( <i>Artamus cinereus</i> )						Habitat not affected
Dusky Woodswallow ( <i>Artamus cyanopterus</i> )						Opening the forest
Grey Butcherbird ( <i>Cracticus torquatus</i> )						Opening the forest
Australian Magpie ( <i>Gymnorhina tibicen</i> )						Opening the forest
Grey Currawong ( <i>Strpera versicolor</i> )						Opening the forest
Australian Raven ( <i>Corvus coronoides</i> )						Opening the forest
Little Crow ( <i>Corvus bennetti</i> )						Habitat not affected

\* Striated pardalote be affected by decrease in hollows in trees, but it is considered that sufficient exist in reserves.

## SKINKS

Species	Status	Establishment Forest	Juvenile Forest	Young Forest	Mature Forest	Treatment effect on critical habitat
Wood Skink ( <i>Cryptoblepharus plagiocephalus</i> )						Increase following opening up, then decrease
South-West Ctenotus ( <i>Ctenotus catenifer</i> )						Habitat not affected
Darling Range Ctenotus ( <i>Ctenotus delli</i> )	<b>P4</b>					Opening up may favour initially
Jewelled South West Ctenotus ( <i>Ctenotus gemmula</i> )	<b>P3</b>					N. coastal, not affected
Odd-striped Ctenotus ( <i>Ctenotus impar</i> )						Opening up may favour initially
Red-legged Skink ( <i>Ctenotus Labillardieri</i> )						Increase following opening up then decrease
King's Skink ( <i>Egernia kingii</i> )						Change in understorey density
Mourning Skink ( <i>Egernia luctuosa</i> )						Habitat largely unaffected
Smiths Skink ( <i>Egernia napoleonis</i> )						Opening up, increase
South-western Rock-Skink ( <i>Egernia pulchra</i> )						Habitat largely unaffected
South-Western Earless Skink ( <i>Hemiergis initialis</i> )						Opening forest may increase numbers
Burrowing Skink ( <i>Hemiergis peronii</i> )						Changes in litter and scrub density
New Holland Skink ( <i>Leiopisma trilineatum</i> )						Opening may favour temporarily
Orange-tailed Skink ( <i>Lerista distinguenda</i> )						Opening may favour temporarily
Elegant Slider ( <i>Lerista elegans</i> )						Opening may favour temporarily
Slippery Skink ( <i>Lerista microtis</i> )						Opening may favour temporarily
Greys Skink ( <i>Menetia greyii</i> )						Opening may favour temporarily
Westcoast Skink ( <i>Morethia lineoocellata</i> )						Habitat largely unaffected
Shrubland Skink ( <i>Morethia obscura</i> )						Habitat largely unaffected
South-western Mulch Skink ( <i>Glaphromorphus australis</i> )						Habitat largely unaffected
Bobtail ( <i>Tiliqua rugosa</i> )						Opening up may lead to increased predation *

\* Fox predation

## GECKOS AND PYGOPODS

Species	Status	Establishment Forest	Juvenile Forest	Young Forest	Mature Forest	Treatment effect on critical habitat
Clawless Gecko ( <i>Crenodactylus ocellatus</i> )						NE Woodlands, largely unaffected
Wheatbelt Stone Gecko ( <i>Diplodactylus granariensis</i> )						Habitat and scrub not affected
Speckled Stone Gecko ( <i>Diplodactylus polyophthalmus</i> )						Rocks not affected
Fine-Faced Gecko ( <i>Diplodactylus pulcher</i> )						Scrubland not affected
Reticulated Velvet Gecko ( <i>Oedura reticulata</i> )						NE Woodlands, largely unaffected
South-Western Spiny-tailed Gecko ( <i>Diplodactylus spinigerus</i> )						Habitat not affected, heath and mallee
Marbled Gecko ( <i>Phyllodactylus marmortus</i> )						Bark and Rocks, large trees reduced
Barking Gecko ( <i>Underwoodisaurus milii</i> )						Open forest
Pretty Worm-Lizard ( <i>Aprasia pulchella</i> )						Woodland., open forest
Sedgelands Worm-Lizard ( <i>Aprasia repens</i> )						Woodland, open forest
Fraser's Scale-Footed Lizard ( <i>Dlama fraseri</i> )						Habitat not affected, woodlands
Burton's Snake-Lizard ( <i>Bialis burtonis</i> )						Jarrah forest and woodland, increase in litter
Common Scaly-Foot ( <i>Pygopus lepidopodus</i> )						Jarrah forest and woodland, increase in litter

## DRAGONS AND MONITORS

SPECIES	Status	Establishment forest	Juvenile forest	Young forest	Mature forest	Treatment effect on critical habitat
Ornate Dragon ( <i>Ctenophorus ornatus</i> )						Granite, not affected
Western Bearded Dragon ( <i>Pogona minor</i> )						Open forest
Sand Monitor ( <i>Varanus gouldii</i> )						Woodland, not affected
Heath Monitor ( <i>Varanus rosenbergi</i> )						Open forest

## TURTLES

SPECIES	Status	Establishment forest	Juvenile forest	Young forest	Mature forest	Treatment effect on critical habitat
Long Necked Turtle ( <i>Chelodina oblonga</i> )						Habitat not affected

## SNAKES

SPECIES	Status	Establishment forest	Juvenile forest	Young forest	Mature forest	Treatment effect on critical habitat
Blind Snake <i>(Ramphotyphlops australis)</i>						Minor disturbance to habitat
Rotund Blind Snake <i>(Ramphotyphlops pinguis)</i>						Minor disturbance to habitat
Beaked Blind Snake <i>(Ramphotyphlops waitii)</i>						Minor disturbance to habitat
Woma <i>(Aspidites ramsayi)</i>	1					Opening may increase predation
Carpet Python <i>(Morelia spilota)</i>	3					Opening may increase predation
Stimson's Python <i>(Morelia stimsoni)</i>						Habitat not affected
Southern Death Adder <i>(Acanthophis antarcticus)</i>						Habitat not affected
Yellow-faced Whipsnake <i>(Demansia psammophis)</i>						Habitat not affected
Crowned Snake <i>(Notechis coronatus)</i>						Habitat not affected
Bardick <i>(Notechis curtus)</i>						Habitat not affected
Short-Nosed Snake <i>(Notechis minor)</i>	4					Habitat not affected
Tiger Snake <i>(Notechis scutatus occidentalis)</i>						Opening forest, minimal effect
Dugite <i>(Pseudonaja affinis affinis)</i>						Opening forest may favour
Gwardar <i>(Pseudonaja nuchalis)</i>						Habitat not affected
Square-Nosed Snake <i>(Rhinoplocephalus bicolor)</i>						Habitat not affected
Gould's Snake <i>(Rhinoplocephalus gouldii)</i>						Habitat not affected
Black-Backed Snake <i>(Rhinoplocephalus nigriceps)</i>						Habitat not affected
Jan's Banded Snake <i>(Vermicella bertholdi)</i>						Habitat not affected
Black-Naped Snake <i>(Vermicella bimaculata)</i>						Habitat not affected
Southern Shovel-Nosed Snake <i>(Vermicella semifasciata)</i>						Habitat not affected

## FROGS

SPECIES	Status	Establishment forest	Juvenile forest	Young forest	Mature forest	Treatment effect on critical habitat
Quacking Frog <i>Crimia georgiana</i>						Habitat largely unaffected., seasonally wet areas
White-bellied Frog <i>Geocrinia alba</i>	1					Dense vegetation, may be affected. See Species profile
Lea's Frog <i>Geocrinia leai</i>						Streams and swamps, not affected
Nornalup Frog <i>Geocrinia lutea</i>	2					Wet forest litter, may be affected. See Species Profile
Roseate Frog <i>Geocrinia rosea</i>	5					Rotting logs, moist sites, not affected
Yellow-bellied Frog <i>Geocrinia vitellina</i>	1					Seepages on Spearwood creek, could be affected. See Species profile
Western Spotted Frog <i>Heleioporus albopunctatus</i>						Woodland, not affected
Western Marsh Frog <i>Heleioporus barycragus</i>	2					Winter flowing water, not affected
Moaning Frog <i>Heleioporus eyrei</i>						Sandy swamp areas, not affected
Plain Frog (Burrowing Frog) <i>Heleioporus inornatus</i>						Sandy peat bogs, not affected
Sand Frog <i>Heleioporus psammophilus</i>						Sandy heath, not affected
Bullfrog (Banjo Frog) <i>Limnodynastes dorsalis</i>						Near permanent water, not affected
Slender Tree Frog <i>Litoria adelaidensis</i>						Dense waterside vegetation
Bell Frog, Motorbike Frog (Green and Gold Tree Frog) <i>Litoria moorei</i>						Near permanent water, not affected
Nicholls' Toadlet <i>Metacrinia nichollsi</i>						Deep litter, rotten logs
Turtle Frog <i>Myobatrachus gouldii</i>						Woodland sandy soils
Humming Frog <i>Neobatrachus pelobatoides</i>						Clay flats, not affected
Gunther's Toadlet <i>Pseudophryne guentheri</i>						Rotten logs
Glauert's Froglet <i>Ranidella glauerti</i>						Marsh edges and seeps, not affected
Squelching Froglet <i>Ranidella insignifera</i>						Temporary swamps, not affected
Bleating Froglet <i>Ranidella pseudinsignifera</i>						Temporary swamps, not affected
South Coast Froglet <i>Ranidella subinsignifera</i>						Melaleuca swamps, not affected
Harlequin Frog Gen.nov.sp.nov (Peat Frog) <i>Myobatrachidae</i>	1					Peat swamps, not affected

## FISH

SPECIES	Status	Establishment forest	Juvenile forest	Young forest	Mature forest	Treatment effect on critical habitat
Mud Minnow ( <i>Galaxella munda</i> )						Acid peaty streams
Black-Striped Minnow ( <i>Galaxiella nigrostriatas</i> )						Acid peaty streams
Western Minnow ( <i>Galaxias occidentalis</i> )						Rivers, lakes and streams
Salamander Fish ( <i>Lepidogalaxias salamandroides</i> )	4					Acid peaty pools, not affected
Freshwater Cobbler ( <i>Tandanus bostocki</i> )						Lakes and slow flowing streams
Night Fish ( <i>Bostockia porosa</i> )						Rivers, streams and lakes
Western Pygmy Perch ( <i>Edelia vittata</i> )						Rivers, streams and lakes
Balston's Pygmy Perch ( <i>Nannatherina balstoni</i> )						Acid peaty pools and lakes
Pouched Lamprey ( <i>Geotria australis</i> )						Rivers
Hardyhead ( <i>Atherinosoma spp.</i> )						Estuaries, rivers and lakes
Mangrove Mullet ( <i>Mugil cephalus</i> )						Estuaries and rivers
Swan River Goby ( <i>Pseudogobius olorum</i> )						Estuaries, rivers and lakes

### INTRODUCED FISH

Rainbow Trout ( <i>Salmo gairdneri</i> )						Rivers
Brown Trout ( <i>Salmo trutta</i> )						Rivers
Carp ( <i>Carassius carassius</i> )						Lakes and rivers
Mosquito Fish ( <i>Gambusia affinis</i> )						Lakes and rivers
Redfin Perch ( <i>Perca fluviatilis</i> )						Dams and rivers





**ESTABLIMENT FOREST  
JARRAH**



**ESTABLISHMENT FOREST  
KARRI**





**JUVENILE FOREST  
JARRAH**



**JUVENILE FOREST  
KARRI**





**YOUNG FOREST  
JARRAH**

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**YOUNG FOREST  
KARRI**

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**MATURE FOREST  
JARRAH**



**MATURE FOREST  
KARRI**

**Appendix 4. Predicted impact of prescribed Spring and Autumn fire on Forest Vertebrate Fauna species.  
{November 2002}**

**MAMMALS**

**Dense cover species**

Common Name	Species	Status	Spring Early succession	Spring Mid succession	Spring Late succession	Autumn Early succession	Autumn Mid succession	Autumn Late succession	Comments On Treatment Effect On Habitat	References
1 Tamar Wallaby	<i>Macropus eugenii</i>	P4,CD	S	S	S - D	D - G	I	S - D	Intense fire on a 20-30 yr rotation needed to maintain tammars in the presence of foxes	Christensen & Maisey {1987}
1 Quokka	<i>Setonix brachyurus</i>	VU	S	S	S	D - G	I	S	Mozaic of burnt/unburnt swamp with unburnt patches not 15 yrs old is required	Christensen & Kimber {1975}, De Torres (in press)
1 Southern Brown Bandicoot	<i>Isoodon obesulus</i>	P4,CD	D	I - D	S	G	I - D	S	Early succession species	See Christensen & Abbott {1989}, Stoddart & Braithwaite {1979}, Fox {1983a}
1 House Mouse	<i>Mus musculus</i>	E	I - S	D	D - G	I	D	D - G	Invades burnt areas after fire, breeds rapidly, then disappears within a few years	See Christensen & Abbott {1989}, Fox [1983a]
1 Black Rat	<i>Rattus rattus</i>	E	D - S	S	S	D - G	I - S	S	Generally occurs close to water	
1 Pig	<i>Sus scrofa</i>	E	I - S	S	S	D	I - S	S	Intense fire may increase food plants	

**Sparse cover species**

2 Western Grey kangaroo	<i>Macropus fuliginosus</i>		I	D - S	S	I	I - D	S	Numbers are highest on recently burned areas, decreasing in numbers 3-5yrs after burning	Christensen & Kimber {1975}
2 Western Brush Wallaby	<i>Macropus irma</i>	P4		D - S	S	D - I	I - D	S	Numbers are highest on recently burned areas, decreasing in numbers 3-5yrs after burning	Christensen & Kimber {1975}
2 Brush-tailed Bettong or Woylie	<i>Bettongia penicillata</i>	P4,CD	D	I - S	S	D	I - S	S	Reduction of cover results in emmediate decline followed by increase to pre-fire levels 4-5yrs after fire	Christensen {1980}
2 Echidna	<i>Tachyglossus aculeatus</i>		D - S	S	S	D	I - S	S	Reduction in cover may result in some initial decline	
2 Cat	<i>Felus catus</i>	E	I - S	S	S	I - S	S	S	Increased predation activity emmediatly following fire, increase in abundance by 15 years after fire?	Catling et al {2001}
2 Dingo	<i>Canis familiaris dingo</i>	E	I - S	S	S	D	I - S	S	Increased predation activiy emmediatly following fire, decline in abundance by year 15?	Catling et al {2001}
2 Goat	<i>Capra hircus</i>	E	I - S	S	S	D - I	S	S	Fire results in increase in fresh green feed	
2 Horse	<i>Equus caballus</i>	E	I - S	S	S	D - I	S	S	Fire results in increase in fresh green feed	
2 Rabbit	<i>Oryctolagus cuniculus</i>	E	I - S	D - S	S	D - I	D - S	S	Intense fire in areas adjacent to farmland may result in temporary increase in numbers	
2 Fox	<i>Vulpes vulpes</i>	E	I - D	S	S	I - D	S	S	Increased predation activity emmediatly following fire, no pattern with time since fire	Christensen {1980}, Catling et al {2001}

**Log Users**

3 Western Quoll or Chuditch	<i>Dasyurus geoffroii</i>	VU	D - S	S	S	D	I	S	No discernible effect of spring fires following 3 fires over 26 years	Burrows & Christensen {2003}
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Yellow-footed Antechinus or	<i>Antechinus flavipes</i>								A late succession species >10 years since fire - needs deep litter to forage for insects	Christensen & Kimber {1975}, Sawle {1979}
3 Mardo			D - S	S - I	I	D - G	S - I	I		
Grey-bellied Dunnart	<i>Sminthopsis griseoventer</i>		I - S	S	S	D - I	I - S	S	A mid-succession species, 3-5yrs, that colonizes rapidly especially following intense fire	Fox {1982, 1983}, Friend {1993}
Numbat	<i>Myrmecobius fasciatus</i>	VU							Numbats may prefer areas burnt relatively infrequently but can tolerate more frequent fire. Autumn fire and wildfire may affect log numbers.	Christensen & Abbott {1989}, Friend {1994}
3 Gilbert's Dunnart	<i>Sminthopsis gilberti</i>		D - S	S	S	D	I - S	S		
3 Dunnart			I - S	S	S	D - I	I - S	S	A mid-succession , 3 - 5 years, that colonizes rapidly especially following intense fires.	Fox {1982, 1983}, Friend {1993}

### Tree Species

Common Brushtail Possum	<i>Trichosurus vulpecula</i>		D - S	S	S	D	I	S	Wildfire may result in temporary decline, low intensity fires have minimal effect	Inions {1985 }, Christensen & Abbott {1989}, Burrows & Christensen {2003}
Western Ringtail Possum	<i>Pseudocheirus occidentalis</i>	VU	D - S	S	S	D	I	S	Wildfire may result in temporary decline, low intensity fires have minimal effect	Inions {1985 }, Christensen & Abbott {1989}
Western Pygmy possum	<i>Cercartetus concinnus</i>		D - S	S	S	D	I	S	Most common in longer unburnt areas?	Bamford {1986}
Honey Possum	<i>Tarsipes rostratus</i>		D	I	S	D	I	S	Recolonizes after 3-5 yrs but may be more common in older unburnt?	Bamford {1986} Friend and Wayne {2003}
Brush-tailed Phascogale	<i>Phascogale tapoatafa</i>	P3	D - S	S	S	D	I	S	Intense fire may result in temporary decline due to increased predation?	
Red-tailed Phascogale	<i>Phascogale calura</i>	EN	D - S	S	S	D	S	S	Autumn fire results in temporary decrease followed by rapid increase	Friend and Wayne {2003}

### Burrowing Species

Bush Rat	<i>Rattus fuscipes</i>		D - S	S	D	D	I - S	D	Declines after fire, reaches maximum population levels 4-6yrs after fire then declines to lower levels in long unburnt forest	Christensen & Kimber {1975}, Catling & Newsome {1981}
5 Water-rat	<i>Hydromys chrysogaster</i>	P4	D - S	S	S	D	I - S	S	Intense fire may result in temporary decline due to increased predation?	

### Bats

Greater Long-eared Bat	<i>Nyctophilus timoriensis</i>		S	S	S	D	I - S	S	Wildfire may temporarily affect food supply?	
Lesser Long-eared Bat	<i>Nyctophilus geoffroyi</i>		S	S	S	D	I - S	S	Wildfire may temporarily affect food supply?	
Gould's Long-eared bat	<i>Nyctophilus gouldi</i>		D	S	S	D	S	S	Woodlands and forest, tree hollows and under bark, high maneuverability, forages in dense undergrowth	
Gould's Wattle Bat	<i>Chalinolobus gouldii</i>		S	S	S	D	I - S	S	Wildfire may temporarily affect food supply?	
Chocolate Wattle Bat	<i>Chalinolobus morio</i>		S	S	S	D	I - S	S	Wildfire may temporarily affect food supply?	
King River Eptesicus	<i>Eptesicus regulus</i>		S	S	S	D	I - S	S	Wildfire may temporarily affect food supply?	

6	Western False Pipistrelle	<i>Falsistrellus mackenziei</i>	P4	S	S	S	D	I - S	S	Wildfire may temporarily affect food supply?
6	White-striped Freetail-bat	<i>Nyctinomus australis</i>		S	S	S	D	I - S	S	Wildfire may temporarily affect food supply?
6	Southern Freetail bat	<i>Mormopterus planiceps</i>		S	S	S	D	I - S	S	Forages over forest canopy and forest edges, tree hollows, direct flight, low maneuverability

## BIRDS

### Water Birds

1	Australasian Little Grebe	<i>Tachybaptus novaehollandiae</i>		S	S	S	S	S	S	Habitat not affected
1	Hoary-headed Grebe	<i>Poliiocephalus poliocephalus</i>		S	S	S	S	S	S	Habitat not affected
1	Darter	<i>Anhinga melanogaster</i>		S	S	S	S	S	S	Habitat not affected
1	Little black Cormorant	<i>Phalacrocorax sulcirostris</i>		S	S	S	S	S	S	Wildfire may affect paperbark swamp nesting habitat
1	Little Pied Cormorant	<i>Phalacrocorax melanoleucos</i>		S	S	S	D - S	I - S	S	Wildfire may affect paperbark swamp nesting habitat
1	Pacific Heron	<i>Ardea pacifica</i>		S	S	S	S	S	S	Habitat not affected
1	White-faced Heron	<i>Ardea novaehollandiae</i>		D - S	I - S	S	D	I - S	S	Intense fire may temporarily affect habitat
1	Great Egret	<i>Egretta alba</i>		NA	NA	NA	NA	NA	NA	Habitat not affected
1	Rufous Night Heron	<i>Nycticorax caledonicus</i>		D - S	S	S	D	I - S	S	Intense fire may temporarily affect habitat
1	Little Bittern	<i>Ixobrychus minutus</i>	P4	S	S	S	D - S	I - S	S	May affects nest sites in rushes
1	Black Bittern	<i>Dupetor flavicollis</i>	P2	D - S	S	S	D - S	I - S	S	May affect nest trees
1	Australasian Bittern	<i>Botaurus poiciloptilus</i>	VU	S	S	S	D - S	I - S	S	May affect nesting in rushes
1	Glossy Ibis	<i>Plegadis falcinellus</i>		NA	NA	NA	NA	NA	NA	Habitat not affected
1	Sacred Ibis	<i>Threskiornis aethiopica</i>		NA	NA	NA	NA	NA	NA	Habitat not affected
1	Straw-necked Ibis	<i>Threskiornis spinicollis</i>		NA	NA	NA	NA	NA	NA	Habitat not affected
1	Yellow-billed Spoonbill	<i>Platalea flavipes</i>		NA	NA	NA	NA	NA	NA	Habitat not affected
1	Black Swan	<i>Cygnus atratus</i>		S	S	S	D - S ?	S	S	Intense fire may temporarily affect habitat
1	Freckled Duck	<i>Stictonetta naevosa</i>		S	S	S	D	I - S	S	Intense fire may affect nest sites
1	Australian Shelduck	<i>Tadorna tadornoides</i>		S	S	S	D - S ?	S	S	Intense fire may affect hollow tree nest sites
1	Pacific Black Duck	<i>Anas superciliosa</i>		S	S	S	D	I - S	S	Intense fire may affect hollow tree nest sites

1	Grey Teal	<i>Anas gibberifrons</i>	S	S	S	D - S ?	S	S	Intense fire may affect hollow tree nest sites
1	Chestnut Teal	<i>Anas castanea</i>	S	S	S	D - S ?	S	S	Intense fire may affect hollow tree nest sites
1	Australasian Shoveler	<i>Anas rhynchosotis</i>	S	S	S	D - S	S	S	Intense fire may affect nest sites in reeds
1	Pink-eared Duck	<i>Malacorhynchus membranaceus</i>	S	S	S	D	I - S	S	Intense fire may affect ti- tree nest sites
1	Hardhead	<i>Aythya australis</i>	S	S	S	D	I - S	S	Intense fire may affect ti- tree nest sites
1	Maned Duck	<i>Chenonetta jubata</i>	S	S	S	D - S ?	S	S	Intense fire may affect hollow tree nest sites
1	Blue-billed Duck	<i>Oxyura australis</i>	S	S	S	D - S ?	S	S	Intense fire may affect nest sites in swamps
1	Musk Duck	<i>Biziura lobata</i>	S	S	S	D	I - S	S	Intense fire may affect nest sites in swamps
1	Black-tailed Native hen	<i>Gallinula ventralis</i>	S	S	S	D - S ?	I - S	S	Intense fire may affect sedge and nesting habitat
1	Dusky Moorhen	<i>Gallinula tenebrosa</i>	S	S	S	D - S ?	II - S	S	Intense fire may affect sedge and nesting habitat
1	Purple Swamphen	<i>Porphyrio porphyrio</i>	S	S	S	D - S ?	I - S	S	Intense fire may affect sedge and nesting habitat
1	Eurasian Coot	<i>Fulica atra</i>	S	S	S	S	S	S	Intense fire may affect sedge and nesting habitat
1	Australian Painted Snipe {SW species}	<i>Rostratula bengahalensis australis</i>	VU						Herdmans Lake, Armadale and Pinjarra. Intense fire may affect sedge and nesting habitat
1			S	S	S	S	S	S	

### Dense Cover and Understorey Birds

2	Buff-banded Rail	<i>Rallus philippensis</i>	D - S ?	I - S	S	D	I - S	S	Intense fire may affect sedge and nesting habitat
2	Lewin's Rail	<i>Rallus pectoralis</i>	D - S ?	I - S	S	D	I - S	S	Intense fire may affect sedge and nesting habitat
2	Baillon's Crake	<i>Porzana pusilla</i>	D - S	S	S	D	S	S	Intense fire may affect sedge and nesting habitat
2	Spotted Crake	<i>Porzana fluminea</i>	D - S	S	S	D	S	S	Intense fire may affect sedge and nesting habitat
2	Spotless Crake	<i>Porzana tabuensis</i>	D - S ?	I - S	S	D	I - S	S	Intense fire may affect sedge and nesting habitat
2	White-breasted Robin	<i>Eopsaltria georgiana</i>	D - S	I - S	S	D	I - S	S	Fire may affect habitat temporarily Christensen & Kimber {1975}, Woller & Calver {1988}
2	Clamorous Reed-Warbler	<i>Acrocephalus stentoreus</i>	D - S	I - S	S	D	I - S	S	Reed habitat may burn in Autumn fire
2	Little Grassbird	<i>Megalurus gramineus</i>	D - S	I - S	S	D	I - S	S	Reed habitat may burn in Autumn fire
2	Spendid Fairy-wren	<i>Malurus splendens</i>	D	I - S	S	D	I - S	S	Habitat temporarily disturbed by fire. Fire frequency < 5yrs may be detrimental. Woller & Calver {1988}, Rowley & Russel {1990}, Brooker {1998}, Brooker {2001}



2	Blue-breasted Fairy-wren	<i>Malurus pulcherrimus</i>		D	I - S	S	D	I - S	S	Habitat temporarily disturbed by fire	
2	Red-winged Fairy-wren	<i>Malurus elegans</i>		D	I - S	S	D	I - S	S	Habitat temporarily disturbed by fire	Christensen & Kimber {1975}, Tingay & Tingay {1984}, Woller & Calver {1988}
2	White-winged Fairy-wren	<i>Malurus leucopterus</i>		D	I - S	S	D	I - S	S	Habitat temporarily disturbed by fire	
2	Southern Emu wren	<i>Stipiturus malachurus</i>		D	I - S	S	D	I - S	S	Habitat temporarily disturbed by fire	
2	White-browed Scrubwren	<i>Sericornis frontalis</i>		D	I - S	S	D	I - S	S	Habitat temporarily disturbed by fire	Tingay & Tingay {1984}, Woller & Calver {1998}
2	Red-eared Firetail	<i>Emblema oculata</i>		D	I - S	S	D	I - S	S	Habitat temporarily disturbed by fire	Woller & Calver {1988}
2	Noisy Scrub-bird	<i>Trichornis clamosus</i>	VU	G	G - D	I - S	G	G - D	I - S	Birds take 4-10yrs to re-occupy burnt habitat, Noisy scrub bird recovery has been attributed to fire exclusion policy	Smith {1985b}, Danks {1998}
2	Western Bristle-bird	<i>Dasyornis longirostris</i>	VU	G	G - D	I - S	G	G - D	I - S	Possible releases in forest area. Likely to react to fire in a similar manner to the Noisy Scrub-bird ?	

### Mid-storey Birds

3	Common Bronzewing	<i>Phaps chalcoptera</i>		S	I - S	S - D ?	D	I - S	D	Fire-weed species form important seed food source, may become more abundant in recently burnt areas	Recher <i>et al</i> {1985b}, Lyon {1985b}
3	Brush Bronzewing	<i>Phaps elegans</i>		S	I - S	S - D ?	D	I - S	D	Fire-weed species form important seed food source	
3	Western Rosella	<i>Platycercus icterotis</i>		S - I	I - S	S	D - I ?	I - S	S	Minimal disturbance by prescribed fire	
3	Fan-tailed Cuckoo	<i>Cuculus pyrrhophanus</i>		S	S	S	D	I - S	S	Minimal disturbance by prescribed fire	
3	Horsefield's Bronze Cuckoo	<i>Chrysococcyx basalis</i>		S	S	S	D	I - S	S	Minimal disturbance by prescribed fire	
3	Shining Bronze Cuckoo	<i>Chrysococcyx lucidus</i>		S	S	S	D	I - S	S	Minimal disturbance by prescribed fire	
3	Southern Boobook	<i>Ninox novaeseelandiae</i>		S	S	S	D	I - S	S	Minimal disturbance by prescribed fire	
3	Barn Owl	<i>Tyto alba</i>		S	S	S	D	I - S	S	Minimal disturbance by prescribed fire	
3	Barking Owl {SW form}	<i>Ninox connivens</i>	P2	S	S	S	D	I - S	S	Minimal disturbance by prescribed fire	
3	Masked Owl	<i>Tyto novaehollandiae</i>	P3	S	S	S	D	I - S	S	Minimal disturbance by prescribed fire	
3	Tawny Frogmouth	<i>Podargus strigoides</i>		S	S	S	D	I - S	S	Minimal disturbance by prescribed fire	

Australian Owlet nightjar	<i>Aegotheles cristatus</i>								Minimal disturbance by prescribed fire	
3		S	S	S	D	I - S	S			
Laughing Kookaburra	<i>Dacelo novaeguineae</i>								Minimal disturbance by prescribed fire	
3		I - S	S	S	I - D	I - S	S			
Sacred Kingfisher	<i>Halcyon sancta</i>								Minimal disturbance by prescribed fire	
3		D -S?	S	S	D	I -S	S			
Rainbow Bee- eater	<i>Merops ornatus</i>								Minimal disturbance by prescribed fire	
3		S	S	S	D	I -S	S			
White-winged Triller	<i>Lalage sueurii</i>								Intense fire may encourage the temporary invasion of this species into open forest and woodland	Christensen <i>et al</i> {1985}
3		NA	NA	NA	I	S - D	NA			
Scarlet Robin	<i>Petroica multicolor</i>									
									Numbers increase temporarily following fire	Christensen & Kimber {1975}, Bamford {1986}, Christensen <i>et al</i> {1985}, Woller & Calver {1988}, Brooker {1998}
3		D -S?	I - S	S	D	I -S	S			
Red-capped Robin	<i>Petroica goodenovii</i>								Numbers increase temporarily following fire ?	
3		D -S?	I - S	S	D	I -S	S			
Western Yellow Robin	<i>Eopsaltria griseogularis</i>								Numbers increase temporarily following fire	Kimber {1975}, Christensen <i>et al</i> {1985}
3		D -S?	I - S	S	D	I - S	S			
Crested Shrike-tit	<i>Falcunculus frontatus</i>	P4							Numbers increase following fire in karri forest	
3		S	S	S	D	I -S	S			
Golden Whistler	<i>Pachycephala pectoralis</i>								Numbers decrease for several years following fire	Kimber {1975}, Christensen & Kimber {1975}, Christensen <i>et al</i> {1985}, Woller & Calver {1988}
3		D	D - I	S	D	D - I	S			
Grey Shrike- thrush	<i>Colluricincla harmonica</i>								Numbers may increase following fire	Kimber {1975}, Christensen <i>et al</i> {1985}
3		I - S ?	S	S	I -S ?	S	S			
Restless Flycatcher	<i>Myiagra inquieta</i>								Minimal disturbance by prescribed fire	
3		S	S	S	D	I - S	S			
Grey Fantail	<i>Rhipidura fuliginosa</i>								Minimal disturbance by prescribed fire	Tingay & Tingay {1984}, Woller & Calver {1988}
3		S	S	S	D	I - S	S			
White-browed Babbler	<i>Pomatostomus superciliosus</i>								May be temporarily disturbed by fire	Turner {1987}
3		S	S	S	D	I - S	S			
Calamanthus	<i>Sericornis fuliginosus</i>								Minimal disturbance by prescribed fire	
3		S	S	S	D	I - S	S			
Weebill	<i>Smicromis brevirostris</i>								Minimal disturbance by prescribed fire	
3		S	S	S	D	I - S	S			
Inland Thornbill	<i>Acanthiza apicalis</i>								Increase in numbers 2 years after fire	Kimber {1975}, Tingay & Tingay {1984}, Christensen <i>et al</i> {1985}, Woller & Calver {1988},
3		D	I - S	S	D	I -S	S			
Western Thornbill	<i>Acanthiza inornata</i>								Increase in numbers 2 years after fire	Kimber {1975}, Christensen & Kimber {1975}, Christensen <i>et al</i> {1985}, Woller & Calver {1988}
3		I	I - S	D	I	I - S	D			
Varied Sittella	<i>Daphoenositta chrysoptera</i>								May decrease temporarily in areas where tree trunks are scorched	
3		S	S	S	S	S	S			
Rufous Treecreeper	<i>Climacteris rufa</i>								May increase in karri following intense fire	Kimber {1975}, Christensen & Kimber {1975}
3		S	S	D	S	I -S	D			

3	Red Wattlebird	<i>Anthochaera carunculata</i>	S	S	S	D	I - S	S	May increase as a result of flowering following intense fire	Christensen & Kimber {1975}, Tingay & Tingay {1984}
3	Little Wattlebird	<i>Anthochaera chrysoptera</i>	S	S	S	D	I - S	S	May increase as a result of flowering following intense fire	
3	New Holland Honeyeater	<i>Phylidonyris novaehollandiae</i>	S	S	S	D - I	I - S	S	May increase as a result of flowering following intense forest fires. In heathland 6yrs post-fire	Tingay & Tingay {1984}, Woller & Calver {1988} and Arnold <i>et al</i> {1993}
3	Western Spinebill	<i>Acanthorhynchus superciliosus</i>	D	I - S	S	D	I - S	S	May increase as a result of flowering following intense fire	Woller & Calver {1988}
3	Silvereye	<i>Zosterops lateralis</i>	S	I - S	S	D	I - S	S	May increase as a result of flowering following intense fire	Christensen <i>et al</i> {1985}, Woller & Calver {1988}
3	Grey Currawong	<i>Strpera versicolor</i>	I - S	S	S	I	S	S	Attracted to recent burns	
3	Australian Raven	<i>Corvus coronoides</i>	I - S	S	S	I	S	S	Attracted to recent burns	Christensen <i>et al</i> {1985}
3	Rufous Whistler	<i>Pachycephala rufiventris</i>	D	D - I	S	D	D - I	S	May decrease following fire like the Golden Whistler?	

### Canopy Birds

4	Red-tailed Black Cockatoo	<i>Calyptorhynchus magnificus</i>	P3	S	S	S	S	S	Minimal disturbance by prescribed fire	
4	Baudin's Cockatoo	<i>Calyptorhynchus baudinii</i>	EN	S	S	S	S	S	Minimal disturbance by prescribed fire	
4	Red-capped Parrot	<i>Purpureicephalus spurius</i>		S	S	S	S	S	Minimal disturbance by prescribed fire	
4	Port Lincoln Ringneck	<i>Barnardius zonarius</i>		S	S	S	S	S	Minimal disturbance by prescribed fire	
4	Pallid Cuckoo	<i>Cuculus pallidus</i>		S	S	S	S	S	Minimal disturbance by prescribed fire	
4	Black-faced Cuckoo shrike	<i>Coracina novaehollandiae</i>		S	S	S	S	S	Minimal disturbance by prescribed fire	
4	White-naped Honeyeater	<i>Melithreptus lunatus</i>		S	S	S	S	S	May increase as a result of flowering following intense fire	Kimber {1975}, Christensen & Kimber {1975}, Turner {1987}
4	Spotted Pardalote	<i>Pardalotus punctatus</i>		I - S	S	S	I - S	S	Minimal disturbance following prescribed fire	Kimber {1975}, Christensen <i>et al</i> {1985}
4	Striated Pardalote	<i>Pardalotus striatus</i>		I - S	S	S	I - S	S	Minimal disturbance following prescribed fire	Kimber {1975}, Christensen <i>et al</i> {1985}
4	Western Gerygoyne	<i>Gerygone fusca</i>		D - S	I - S	S	D - S	I - S	May increase following prescribed fire	Kimber {1975}, Christensen <i>et al</i> {1985}, Turner {1987}

### Aerial [Hawking] Birds

5	Osprey	<i>Pandion haliaetus</i>		NA	NA	NA	NA	NA	Non Forest species	
5	Black-shouldered Kite	<i>Elanus notatus</i>		NA	NA	NA	NA	NA	Non Forest species	

5	Square-tailed Kite	<i>Lophoictinia isura</i>		S	S	S	D ?	S	S	Effects of fire not known- prescribed fire likely to have minimal effect
5	Whistling Kite	<i>Haliastur sphenurus</i>		S	S	S	D ?	S	S	Effects of fire not known- prescribed fire likely to have minimal effect
5	Brown Goshawk	<i>Accipiter fasciatus</i>		S	S	S	D ?	S	S	Effects of fire not known- prescribed fire likely to have minimal effect
5	Collared Sparrowhawk	<i>Accipiter cirrhocephalus</i>		S	S	S	D ?	S	S	Effects of fire not known- prescribed fire likely to have minimal effect
5	Wedge-tailed Eagle	<i>Aquila audax</i>		S	S	ier	I - D ?	S	S	Effects of fire not known- prescribed fire likely to have minimal effect
5	Little Eagle	<i>Hieraaetus morphnoides</i>		S	S	S	I - D ?	S	S	Effects of fire not known- prescribed fire likely to have minimal effect
5	Spotted Harrier	<i>Circus assimilis</i>		D	I - S ?	S	D	I - S	S	Prescribed fire may have temporary effect
5	Marsh Harrier	<i>Circus approximans</i>		D	I - S ?	S	D	I - S	S	Prescribed fire may have temporary effect
5	Peregrine Falcon	<i>Falco peregrinus</i>	SP	S	S	S	D ?	S	S	Effects of fire not known- prescribed fire likely to have minimal effect
5	Austrlian Hobby	<i>Falco longipennis</i>		S	S	S	D ?	S	S	Effects of fire not known- prescribed fire likely to have minimal effect
5	Brown Falcon	<i>Falco berigora</i>		S	S	S	D	I - S	S	Effects of fire not known- prescribed fire likely to have minimal effect
5	Australian Kestrel	<i>Falco cenchroides</i>		S	S	S	S	S	S	Effects of fire not known- prescribed fire likely to have minimal effect
5	Black-faced Woodswallow	<i>Artamus cinereus</i>		NA	NA	NA	NA	NA	NA	Non-forest species
5	Dusky Woodswallow	<i>Artamus cyanopterus</i>		S	S	S	I	I - S	S	May increase early following fire
										Christensen <i>et al</i> {1985}, Turner {1987}

## Non-Forest Birds

6	Spotted Turtle Dove	<i>Streptopelia chinensis</i>	E	NA	NA	NA	NA	NA	NA	Non-forest species
6	Laughing Turtle-Dove	<i>Streptopelia senegalensis</i>	E	NA	NA	NA	NA	NA	NA	Non-forest species
6	Crested Pigeon	<i>Ocyphaps lophotes</i>		NA	NA	NA	NA	NA	NA	Non-forest species

Western Long-billed Corella	<i>Cacatua pastinator</i>	EN								Non-forest species	
6			NA	NA	NA	NA	NA	NA			
Carnaby's Cockatoo	<i>Calyptorhynchus latirostris</i>	EN								Non-forest species	
6			NA	NA	NA	NA	NA	NA			
Galah	<i>Cacatua roseicapilla</i>									Non-forest species	
6			NA	NA	NA	NA	NA	NA			
Little Corella	<i>Cacatua sanguinea</i>									Non-forest species	
6			NA	NA	NA	NA	NA	NA			
Suphur-crested Cockatoo	<i>Cacatua galerita</i>									Non-forest species	
6			NA	NA	NA	NA	NA	NA			
Regent Parrot	<i>Polytelis anthopeplus</i>									Non-forest species	
6			NA	NA	NA	NA	NA	NA			
Budgerigar	<i>Melopsittacus undulatus</i>									Non-forest species	
6			NA	NA	NA	NA	NA	NA			
Elegant Parrot	<i>Neophema elegans</i>									Birds may increase as a result of temporary increase in herb and grass seed following fire	Brooker & Rowley {1991}
6			NA	NA	NA	NA	NA	NA			
Rock Parrot	<i>Neophema petrophila</i>									Non-forest species	
6			NA	NA	NA	NA	NA	NA			
Fork-tailed Swift	<i>Apus pacificus</i>									Non-forest species	
6			NA	NA	NA	NA	NA	NA			
White-backed Swallow	<i>Cheramoeca leucosternum</i>									Non-forest species	
6			NA	NA	NA	NA	NA	NA			
Welcome Swallow	<i>Hirundo neoxena</i>									Non-forest species	
6			NA	NA	NA	NA	NA	NA			
Tree Martin	<i>Cecropis nigricans</i>									Open country bird, largely unaffected	
6			I - S	S	S	I - S	S	S			
Fairy Martin	<i>Cecropis ariel</i>									Non-forest species	
6			NA	NA	NA	NA	NA	NA			
Richard's Pipit	<i>Anthus novaeseelandiae</i>									May invade some areas 1-3 yrs post-fire	Bamford {1986}, Christensen pers com.
6			D - I	S	S	D - I	S	S			
Hooded Robin	<i>Melanodryas cucullata</i>									Non-forest species	
6			NA	NA	NA	NA	NA	NA			
Crested Bellbird)	<i>Oreoica gutturalis</i>									Non-forest species	
6			NA	NA	NA	NA	NA	NA			
Willie Wagtail	<i>Rhipidura leucophrys</i>									Open country bird, largely unaffected	
6			S	S	S	S	S	S			
Western Whipbird	<i>Psophodes nigrogularis nigrogularis</i>	VU								Heath and mallee species, may be relocated in the forest area?	
6			D	I - S	S	D	I - S	S			
Chestnut Quail-thrush	<i>Cinlosoma castanotum</i>									Open country bird, largely unaffected	
6			D	I - S	S	D	I - S	S			
Rufous Songlark	<i>Cinclorhamphus mathewsi</i>									Open country bird, largely unaffected	
6			D - I	S	S	D - I	S	S			
Brown Songlark	<i>Cinclorhamphus cruralis</i>									Open country bird, largely unaffected	
6			D - I	S	S	D - I	S	S			
Yellow-rumped Thornbill	<i>Acanthiza chrysorrhoa</i>									Forest edge bird, minimal effect	
6			I - S	S	S	D - S	S	S			
Yellow-throated Miner	<i>Manorina flavigula</i>									Non Forest species	
6			NA	NA	NA	NA	NA	NA			
Singing Honeyeater	<i>Lichenostomus virescens</i>									Woodland species, minimal effect	
6			S	S	S	S	I - S	S			

6	White-eared Honeyeater	<i>Lichenostomus leucotis</i>	NA	NA	NA	NA	NA	NA	Non Forest species	
6	Yellow-plumed Honeyeater	<i>Lichenostomus ornatus</i>	NA	NA	NA	NA	NA	NA	Non Forest species	
6	Brown-headed Honeyeater	<i>Meliphreptus brevirostris</i>	NA	NA	NA	NA	NA	NA	Non Forest species	Kimber {1975}
6	Brown Honeyeater	<i>Lichmera indistincta</i>	S	S	S	S	I - S	S	Woodland species, minimal effect	Kimber {1975}
6	White-cheeked Honeyeater	<i>Phylidonyris nigra</i>	D	I - S	S	D	I - S	S	Coastal heath species-favours 3-6 yrs post-fire	Arnold <i>et al.</i> {1993}
6	Tawny-crowned Honeyeater	<i>Phylidonyris melanops</i>	D	I - S	S	D	I - S	S	Heathland species-commonly recorded 1-6 yrs post-fire	Arnold <i>et al.</i> {1993}
6	Australian Magpie-lark	<i>Grallina cyanoleuca</i>	S	S	S	S	S	S	Open country species, not affected	
6	Grey Butcherbird	<i>Cracticus torquatus</i>	NA	NA	NA	NA	NA	NA	Non Forest species	
6	Australian Magpie	<i>Gymnorhina tibicen</i>	I - S	S	S	I - S	S	S	May invade some areas first year following fire	Christensen <i>et al.</i> {1985}
6	White-winged Triller	<i>Lalage sueurii</i>					I - S	G	May invade forest areas following intense fire	Christensen <i>et al.</i> {1985}, Turner {1987}
6	Little Crow	<i>Corvus bennetti</i>	I - S	S	S	I - S	S	S	Northern species	
6	White-fronted Chat	<i>Ephthianura albifrons</i>	NA	NA	NA	NA	NA	NA	Open country species, may move in 2-3 yrs post-fire	Arnold <i>et al.</i> {1993}, Bamford {1986}, Chapman & Newbey {1994}
6	Mistletoebird	<i>Dicaeum hirundinaceum</i>	S	S	S	S	S	S	Woodland species, may decrease immediately following fire	Turner {1987}

### Seasonal Birds

7	Emu	<i>Dromaius novaehollandiae</i>	S	S	S	S	I - S	S	Fire increases food supply	Turner [1987, 1992]
7	Purple-crowned Lorikeet	<i>Glossopsitta porphyrocephala</i>	S	S	S	S	S	S	Prescribed burning generally has only minor impact	Tingay & Tingay {1984}

### Ground Nesting Birds

8	Malleefowl	<i>Leipoa ocellata</i>	VU	D	D - I	S	D	D - I	S	Very limited area of distribution in the forest area - fire may disrupt nesting
8	Stubble Quail	<i>Coturnix novaezelandiae</i>	D	I - S	S	D	I - S	S	Fire induced herb and grass seed abundance may cause temporary increase this species?	
8	Brown Quail	<i>Coturnix australis</i>	D	I - S	S	D	I - S	S	Fire induced herb and grass seed abundance may cause temporary increase this species	Mc Farland {1988}
8	Painted Button-quail	<i>Turnix varia</i>	D	I - S	S	D	I - S	S	Fire induced herb and grass seed abundance may cause temporary increase this species?	

8	Little Button-quail	<i>Turnix velox</i>		D	I - S	S	D	I - S	S	Fire induced herb and grass seed abundance may cause temporary increase this species	Brooker & Rowley {1991}
8	Australian Bustard	<i>Ardeotis australis</i>	P4	D	I - S	S	D	I - S	S	Fire may temporarily disrupt nesting?	
	Bush Stone Curlew	<i>Burhinus grallarius</i>	P4	D	I - S	S	D	I - S	S	Fire may temporarily disrupt nesting?	
8	Banded Lapwing	<i>Vanellus tricolor</i>		D	I - S	S	D	I - S	S	Fire may temporarily disrupt nesting	
8	Red-kneed Dotterel	<i>Erythrogonys cinctus</i>		NA	NA	NA	NA	NA	NA	Non forest species	
8	Red-capped Plover	<i>Charadrius ruficapillus</i>		NA	NA	NA	NA	NA	NA	Non forest species	
8	Black-fronted Plover	<i>Charadrius melanops</i>		D	I - S	S	D	I - S	S	Habitat, marsh and swamp edges minimally affected by fire	
8	Spotted Nightjar	<i>Caprimulgus guttatus</i>		D	I - S	S	D	I - S	S	Fire may temporarily disrupt nesting	

## Reptiles

### Skinks

	Wood Skink	<i>Cryptoblepharus plagiocephalus</i>		S	S	S	D	I - S	S	Rocks and tree trunks. No relationship with time since fire	Bamford {1986}
	South-West Ctenotus	<i>Ctenotus catenifer</i>		S	S	S	D	I - S	S	Moister areas	
	Darling Range Ctenotus	<i>Ctenotus delli</i>	P4	D	I - S	S	D	I - S	S	Under bushes and logs 2	
	Jewelled South West Ctenotus	<i>Ctenotus gemmula</i>	P3	D	I - S	S	D	I - S	S	North Coastal areas	
	Odd-striped Ctenotus	<i>Ctenotus impar</i>		D	I - S	S	D	I - S	S	Heath and woodland	
	Red-legged Skink	<i>Ctenotus Labillardieri</i>		D	I - S	S	D	I - S	S	Under logs, dead blackboys, rocks 2	
	King's Skink	<i>Egernia kingii</i>		D	I - S	S	D	I - S	S	Varied habitat, open forest - fox predation	
	Mourning Skink	<i>Egernia luctuosa</i>		S	S	S	D	I - S	S	Swampy habitat, wildfire may affect?	
	Smiths Skink	<i>Egernia napoleonis</i>		D	I - S	S	D	I - S	S	Crevice in stumps, logs, rocks 2	
	South-western Rock-Skink	<i>Egernia pulchra</i>		S	S	S	S	S	S	Rock habitat largely unaffected	
	South-Western Earless Skink	<i>Hemiernia initialis</i>		S	S	S	D	I - S	S	Crevice in stumps, logs 2	
	Burrowing Skink	<i>Hemiernia peronii</i>		S	S	S	D	I - S	S	Humus and litter, affected by wildfire?	

New Holland Skink	<i>Leiopisma trilineatum</i>		S	S	S	D	I - S	S	Under logs, litter, moist sites 2
Orange-tailed Skink	<i>Lerista distinguenda</i>		D	I - S	S	D	I - S	S	Under logs, rocks, leaf litter 2
Elegant Slider	<i>Lerista elegans</i>		D	D - I	S	D	D - I	S	Shelters under leaf litter. Late succession species? Bamford {1986}, Friend {1993}
Slippery Skink	<i>Lerista microtis</i>		D	I - S	S	D	I - S	S	Heath/ woodland species
Greys Skink	<i>Menetia greyii</i>		D	I - S	S	D	I - S	S	Under leaf litter. Fire has minimal effect, may decrease in long unburnt areas Bamford {1995}
Westcoast Skink	<i>Morethia lineoocellata</i>		D	I - S	S	D	I - S	S	Shelters under leaf litter. Late succession species Bamford {1986}, Friend {1993}
Shrubland Skink	<i>Morethia obscura</i>		D	I - S	S	D	I - S	S	Low dense bushes and litter 2
South-western Mulch Skink	<i>Glaphromorphus koontoolasi</i>	P1							Moist low-lying areas
Bobtail	<i>Tiliqua rugosa</i>		D	I - S	S	D	I - S	S	
			D	I - S	S	D	I - S	S	Under bushes, logs - fox predation

## Geckos

Clawless Gecko	<i>Crenodactylus ocellatus</i>		D	I - S	S	D	I - S	S	North Eastern forest area ?
Wheatbelt Stone Gecko	<i>Diplodactylus granariensis</i>		D	I - S	S	D	I - S	S	Woodland and heath
Speckled Stone Gecko	<i>Diplodactylus polyophthalmus</i>		S	S	S	S	S	S	Under rocks, laterite
Fine-Faced Gecko	<i>Diplodactylus pulcher</i>		D	I - S	S	D	I - S	S	NE Woodland
South-Western Spiny-tailed Gecko	<i>Diplodactylus spinigerus</i>		D	I - S	S	D	I - S	S	Scrub and heath
Reticulated velvet Gecko	<i>Oedura reticulata</i>		D	I - S	S	D	I - S	S	Possibly in North Eastern woodlands, arboreal, on smooth barked eucalypts.
Marbled Gecko	<i>Phyllodactylus marmoratus</i>		S	S	S	D	I - S	S	Under loose bark of trees, rocks 2
Barking Gecko	<i>Underwoodisaurus milii</i>		S	S	S	D	I - S	S	Rocky country

## Legless Lizards

Pretty Worm-Lizard	<i>Aprasia pulchella</i>		S	S	S	D	I - S	S	Under logs, rocks, loose soil 2
Sedgeland Worm-Lizard	<i>Aprasia repens</i>		S	S	S	D	I - S	S	Under logs and leaf litter



Fraser's Scale-footed Lizard  
*Delma fraseri*

D I - S S D I - S S

Woodland

Burton's Snake-Lizard  
*Lialis burtonis*

D I - S S D I - S S

Under dense bush, litter 2

Common Scaly-Foot  
*Pygopus lepidopodus*

D I - S S D I - S S

Open forest under logs

## Dragons and Monitors

Ornate Dragon  
*Ctenophorus ornatus*

S S S S S S

Rock outcrops

Western Bearded Dragon  
*Pogona minor*

D I - S S D I - S S

Initial decrease followed by an increase 3-6years after fire Bamford {1985 }, Bamford {1995}, Friend {1993}

Sand Monitor  
*Varanus gouldii*

D I - S S D I - S S

In burrows under bushes - fox predation

Heath Monitor  
*Varanus rosenbergi*

D I - S S D I - S S

Burrows - fox predation

## Turtles

Long Necked Turtle  
*Chelodina oblonga*

S S S S S S

Lakes, rivers and swamps

## Snakes

Blind Snake  
*Ramphotyphlops australis*

S S S D? I - S? S

Open forest, woodland

Rotund Bilind Snake  
*Ramphotyphlops pinguis*

S S S D? I - S? S

Woodland, rock

Beaked Blind Snake  
*Ramphotyphlops waitii*

S S S D? I - S? S

Open forest and scrub

Carpet Python  
*Morelia spilota* SP&P4

D I - S S D I - S S

North Eastern forests, under rocks logs dense scrub - fox predaton

Woma  
*Aspidites ramsayi* SP&P1

d I - S S D I - S S

Under rocks logs dense scrub - fox predaton

Stimson's Python  
*Morelia stimsoni*

D I - S S D I - S S

Northern forests, rocky areas

Southern Death Adder  
*Acanthophis antarcticus* P3

D I - S S D I - S S

Leaf litter, rocks, logs 2

Yellow-faced Whipsnake  
*Demansia psammophis*

D I - S S D I - S S

Woodland and heath

Crowned Snake  
*Notechis coronatus*

D I - S S D I - S S

Coastal heath

Bardick  
*Notechis curtus*

D I - S S D I - S S

Coastal heath

Short-Nosed Snake	<i>Notechis minor</i>	P2							Heath and woodland
			D	I - S	S	D	I - S	S	
Tiger Snake	<i>Notechis scutatus occidentalis</i>		S	S	S	S	S	S	Valleys and moister areas
Dugite	<i>Pseudonoaja affinis affinis</i>		S	S	S	S	S	S	Under rocks, logs 2
Gwardar	<i>Pseudonaja nuchalis</i>		S	S	S	S	S	S	Northern woodlands ?
Square-Nosed Snake	<i>Rhinoplocephalus bicolor</i>		S	S	S	D?	I - S?	S	Woodland and heath, moist
Gould's Snake	<i>Rhinoplocephalus gouldii</i>		S	S	S	D?	I - S?	S	Logs, rocks 2
Black-Backed Snake	<i>Rhinoplocephalus nigriceps</i>		S	S	S	D?	I - S?	S	Logs, rocks, debris 2
Jan's Banded Snake	<i>Vermicella bertholdi</i>		S	S	S	D/	I - S?	S	Woodland
Black-Naped Snake	<i>Vermicella bimaculata</i>		S	S	S	D?	I - S?	S	Woodland, heath, rock
Southern Shovel-Nosed Snake	<i>Vermicella semifasciata</i>		S	S	S	D	I - S?	S	Woodland, heath

## Frogs

Quacking Frog	<i>Crinia georgiana</i>		D	I - S	S	D	I - S	S	Winter moist areas
White-bellied Frog	<i>Geocrinia alba</i>	CR							Moist leaf litter and moss. Survives the emmediate effects of fire, longer term effects not known
			D	I - S	S	D	I - S	S	Roberts {1999}, Conroy {2001}
Lea's Frog	<i>Geocrinia leai</i>		S	S	S	D	I - S	S	Streams and swamps
Nornalup Frog	<i>Geocrinia lutea</i>	P4							Leaf litter and moss. May decline during the first years after fire but recovers after 5-6years
			D	I - S	S	D	I - S	S	Bamford & Roberts {in press}, Conroy {2001}
Roseate Frog	<i>Geocrinia rosea</i>		D	I - S	S	D	I - S	S	Leaf litter and moss.
Orange-bellied Frog	<i>Geocrinia vitellina</i>	VU							Leaf litter and moss. Survives the emmediate effects of fire, longer term effects not known
			D	I - S	S	D	I - S	S	Bamford & Roberts {in press}, Conroy {2001}
Western Spotted Frog	<i>Heleioporus albopunctatus</i>		D	I - S	S	D	I - S	S	Woodland, burrows. May decline during the first few years after fire?
									Arnold {1993}
Western Marsh Frog	<i>Heleioporus barycragus</i>		D	I - S	S	D	I - S	S	Winter flowing estuaries
Moaning Frog	<i>Heleioporus eyrei</i>		D	I - S	S	D	I - S	S	Burrows. Appears little affected by fire
									Bamford {1992}
Plain Frog, Burrowing Frog	<i>Heleioporus inornatus</i>		D	I - S	S	D	I - S	S	Leaf litter and logs
Sand Frog	<i>Heleioporus psammophilus</i>		D	I - S	S	D	I - S	S	Heath and open forest, sand
Bullfrog , Banjo Frog	<i>Limnodynastes dorsalis</i>		D	I - S	S	D	I - S	S	Vegetation near water. Low numbers following fire, more common in longer unburnt areas?
									Bamford {1986,1992}

Slender Tree Frog	<i>Litoria adelaidensis</i>		S	S	S	D	I - S	S	Reeds and moist vegetation, non burrowing. May prefer longer unburnt areas?	Bamford {1986,1992}
Bell Frog, Motorbike Frog, Green and Gold Tree Frog	<i>Litoria moorei</i>								Near permanent water. May prefer longer unburnt sites?	Friend {1993}
Nicholls' Toadlet	<i>Metacrinia nicholli</i>		D	I - S	S	D	I - S	S	Rotten logs and litter	
Turtle Frog	<i>Myobatrachus gouldii</i>		D	I - S	S	D	I - S	S	Terrestrial breeding frog. Most common in longer unburnt areas?	Bamford {1986,1992}, Friend {1993}
Humming Frog	<i>Neobatrachus pelobatooides</i>		S	S	S	D	I - S	S	Seasonally moist areas. May decline in the first few years following fire	Bamford & Bamford {1992}, Bamford & Roberts {in press}
Gunther's Toadlet	<i>Pseudophryne guentheri</i>		S	S	S	D	I - S	S	Moist areas under rocks. May be little effect of fire?	Bamford & Bamford {1992}, Anold <i>et al</i> {1993}
Glauert's Froglet	<i>Ranidella glauerti</i>		S	S	S	D	I - S	S	Swamp edges	
Squelching Froglet	<i>Ranidella insignifera</i>		D	I - S	S	D	I - S	S	Temporary swamps	
Bleating Froglet	<i>Ranidella pseudinsignifera</i>		D	I - S	S	D	I - S	S	Temporary swamps	
South Coast Froglet	<i>Ranidella subinsignifera</i>		D	I - S	S	D	I - S	S	Temporary swamps	
Sunset Frog	<i>Spicospina flammocaerulea</i>	VU	D?	S	S	D	I - S	S	Peat bogs - Mild fires appear to have little detrimental effect. Wildfire under dry conditions may destroy peat	Roberts <i>et al</i> {1999}

## Fish

Mud Minnow	<i>Galaxella munda</i>	P4							Temporary ponds in heath land - fish which occur in small pools and streams in dense vegetation could suffer predation from herons and other birds if the area is opened by fire.	
Black-Striped Minnow	<i>Galaxiella nigrostriatas</i>	P3	D?	I - S	S	D?	I - S	S	Temporary ponds in heath land - fish which occur in small pools and streams in dense vegetation could suffer predation from herons and other birds if the area is opened by fire.	
Western Minnow	<i>Galaxias occidentalis</i>		D?	I - S	S	D?	I - S	S	Streams and rivers - fish which occur in small pools and streams in dense vegetation could suffer predation from herons and other birds if the area is opened by fire.	
Salamander Fish	<i>Lepidogalaxias salamandroides</i>		D?	I - S	S	D?	I - S	S	Temporary ponds in heath land - fish which occur in small pools and streams in dense vegetation could suffer predation from herons and other birds if the area is opened by fire.	
Freshwater Cobbler	<i>Tandanus bostocki</i>		D?	I - S	S	D?	I - S	S	Rivers - fish which occur in small pools and streams in dense vegetation could suffer predation from herons and other birds if the area is opened by fire.	
Night Fish	<i>Bostockia porosa</i>		S	S	S	D?	I - S	S	Streams, ponds - fish which occur in small pools and streams in dense vegetation could suffer predation from herons and other birds if the area is opened by fire.	
			S	S	S	D?	I - S	S		

Western Pygmy Perch	<i>Edelia vittata</i>		S	S	S	D?	I - S	S	Streams, lakes - fish which occur in small pools and streams in dense vegetation could suffer predation from herons and other birds if the area is opened by fire.
Balston's Pygmy Perch	<i>Nannatherina balstoni</i>	P4	S	S	S	D?	I - S	S	Streams, ponds - fish which occur in small pools and streams in dense vegetation could suffer predation from herons and other birds if the area is opened by fire.
Pouched Lamprey	<i>Geotria australis</i>	P1	S	S	S	S	S	S	Rivers - fish which occur in small pools and streams in dense vegetation could suffer predation from herons and other birds if the area is opened by fire.
Hardyhead	<i>Atherinosoma spp.</i>		S	S	S	S	S	S	Rivers, lakes - fish which occur in small pools and streams in dense vegetation could suffer predation from herons and other birds if the area is opened by fire.
Mangrove Mullet	<i>Mugil cephalus</i>		S	S	S	S	S	S	Rivers, estuaries - fish which occur in small pools and streams in dense vegetation could suffer predation from herons and other birds if the area is opened by fire.
Swan River Goby	<i>Pseudogobius olorum</i>		S	S	S	S	S	S	Rivers, coastal lakes - fish which occur in small pools and streams in dense vegetation could suffer predation from herons and other birds if the area is opened by fire.
Rainbow Trout	<i>Salmo gairdneri</i>	E	S	S	S	S	S	S	Rivers - fish which occur in small pools and streams in dense vegetation could suffer predation from herons and other birds if the area is opened by fire.
Brown Trout	<i>Salmo trutta</i>	E	S	S	S	S	S	S	Rivers - fish which occur in small pools and streams in dense vegetation could suffer predation from herons and other birds if the area is opened by fire.
Carp	<i>Carassius carassius</i>	E	S	S	S	S	S	S	Rivers - fish which occur in small pools and streams in dense vegetation could suffer predation from herons and other birds if the area is opened by fire.
Mosquito Fish	<i>Gambusia affinis</i>	E	S	S	S	S	S	S	Rivers, lakes - fish which occur in small pools and streams in dense vegetation could suffer predation from herons and other birds if the area is opened by fire.
Redfin Perch	<i>Perca fluviatilis</i>	E	S	S	S	S	S	S	Rivers, lakes - fish which occur in small pools and streams in dense vegetation could suffer predation from herons and other birds if the area is opened by fire.
			S	S	S	S	S	S	

NB. Species of fish which occur in small pools and streams in dense vegetation could suffer predation from herons and other birds if the area is opened by fire.

**Understorey Sucessional Stage**

Early = 0 to 2 years  
Mid = 2 to 10 - 15 years  
Late = >15 years

**Species Response**

G = Gone {Dissapears}  
D = Decreases  
S = Stable  
I = Increase

**Status Ranking**

EX: Extinct  
CR: Critically Endangered  
EN: Endangered  
VU: Vulnerable

P: Priority Taxa,1,2,3,4 and 5.  
CD: Conservation Dependent  
SP: Specially Protected  
E: Exotic

## Appendix 5. Preliminary list of taxa to check prior to Burning or Harvesting

### Appendix 5a. - Species to check for prior to prescribed burning.

#### Preliminary Check List of 64 Vertebrate species.

Species	Sched. Fauna	FDIS Units	Habitat Factor	Pred. Impact	Comments	Check Sp.
<b>Mammals</b>						
<b>Chuditch</b> Dasyurus geoffroi	VU		Hollow logs		Fox predation a factor during years 1-2	2
<b>Numbat</b> Myrmecobius fasciatus	VU		Hollow logs		Fox predation a factor during years 1-2	2
<b>Quenda</b> Isoodon obesulus	P4				Fox predation a factor during years 1-2	1
<b>Western ringtail possum</b> Pseudocheirus occidentalis	VU	3	Blackboys and hollow logs		Fox predation a factor during years 1-2	3
<b>Brush wallaby</b> Macropus irma	P4		Suitable cover		Regime of frequent fire may cause long term decl.	2
<b>Tammar wallaby</b> Macropus eugenii	P4	2	Fire regenerated thickets	Decline, late succession	Thicket habitat requires planned fire regime	4 #
<b>Quokka</b> Setonix brachyurus	VU	3	Dense swamp habitat		Isolated colonies may need planned fire regime	3 #
<b>Woylie</b> Bettongia penicillata	P4				Fox predation a factor during years 1-2	1
<b>Brush-tailed Phascogale</b> Phascogale tapoatafa	P3				Fox predation a factor during years 1-2	1
<b>Mardo</b> Antechinus flavipes			Deep litter	Late succession	Requires deep litter approx 5 to 10 year buildup	2
<b>Bush rat</b> Rattus fuscipes				Early succession	Declines in long unburnt habitat - 10-15 years +	1
<b>Water rat</b> Hydromys chrysogaster	P4				Fox predation a factor during years 1-2	1
<b>Western False Pipistrelle</b> Falsistrellus mckenziei	P4				Prescribed fire unlikely to affect this species	1

## Birds

<b>Mallee Fowl</b> Leipoa ocellata	VU		Moderate litter layer	Late sucession	May require litter buildup over 4 to 5 years	3 #
<b>Freckled duck</b> Strictonetta naevosa			Nesting sites in ti-tree over water		Autumn fire could disrupt nesting for 1 to 2 years	1 #
<b>Black Bittern</b> Ixobrychus flavicollis	P2	1	Restricted area of habitat		Autumn fire could disrupt nesting for 1 to 2 years	3 #
<b>Australasian Bittern</b> Botaurus poiciloptilus	VU	1	Restricted area of habitat		Autumn fire could disrupt nesting for 1 to 2 years	3 #
<b>Little Bittern</b> Ixobrychus minutus	P4	1	Restricted area of habitat		Autumn fire could disrupt nesting for 1 to 2 years	3 #
<b>Black-tailed Native Hen</b> Gallinula ventralis		1	Nests in reeds and thickets near water		Autumn fire could disrupt nesting for 1 to 2 years	2 #
<b>Spotless Crake</b> Porzana tabuensis		1	Nests in reeds and rushes		Autumn fire could disrupt nesting for 1 to 2 years	2 #
<b>Buff-banded Rail</b> Gallirallus philippensis			Nests in reeds and rushes		Autumn fire could disrupt nesting for 1 to 2 years	1 #
<b>Dusky Moorhen</b> Gallinula tenebrosa		1	Restricted area of habitat		Autumn fire could disrupt nesting for 1 to 2 years	2 #
<b>Purple Swamphen</b> Porphyrio porphyrio			Nests in reeds and rushes		Autumn fire could disrupt nesting for 1 to 2 years	1 #
<b>Musk Duck</b> Biziura lobata		1	Nests in reeds over water		Autumn fire could disrupt nesting for 1 to 2 years	2 #
<b>Blue-billed Duck</b> Oxyura australis			Nests in reeds & dense vegetation over water		Autumn fire could disrupt nesting for 1 to 2 years	1 #
<b>Rufous Night Heron</b> Nycticorax caledonicus		1	Nests in tree or shrub over water		Autumn fire could disrupt nesting for 1 to 2 years	2 #
<b>Clamorous Reed-Warbler</b> Acrocephalus stentoreus			Nests in reeds		Autumn fire could disrupt nesting for 1 to 2 years	1 #
<b>Little Grassbird</b> Megalurus gramineus			Nests in reeds and tussocks near swamps		Autumn fire could disrupt nesting for 1 to 2 years	1 #
<b>Australian Bustard</b> Ardeotis australis	P4				Essentially a non-forest species	1
<b>Eastern Curlew</b> Numenius madegascariensis	P4				Essentially a non-forest species	1
<b>Hooded Plover</b> {Western Subspecies} Thinomis rubricollis rubricollis	P4				Essentially a non-forest species	1
<b>Bush Stonecurlew</b> Burhinus grallarius	P4				Essentially a non-forest species	1

<b>Baudin's Cockatoo</b> Calyptorhynchus baudinii	VU			Prescribed fire unlikely to affect this species	1
<b>Carnaby's Cockatoo</b> Calyptorhynchus latirostris	EN			Prescribed fire unlikely to affect this species	1
<b>Western long-billed Corella</b> Cacatua pastinator pastinator	EN			Prescribed fire unlikely to affect this species	1
<b>Peregrine Falcon</b> Falco peregrinus	SP			Prescribed fire unlikely to affect this species	1
<b>Forest Red-tailed Black Cockatoo</b> - Calyptorhynchus magnificus naso	P3			Prescribed fire unlikely to affect this species	1
<b>Barking Owl {SW form}</b> Ninox connivens	P2			Prescribed fire is unlikely to affect this species	1
<b>Masked Owl</b> Tyto novaehollandiae	P3			Prescribed fire is unlikely to affect this species	1
<b>Noisy Scrub-bird</b> Atrichornis clamosus	VU	Dense thickets and deep litter	Late succession	Requires long unburnt litter	3 #
<b>Crested Shrike-tit {SW Subsp.}</b> Falcunculus frontatus	P4			Prescribed fire may cause temporary decline	1
<b>Western Thornbill</b> Acanthiza inornata			Early succession	Declines in numbers in long absence of fire - 10+ years	1
<b>Rufous Treecreeper</b> Climacteris rufa			Early	Declines in numbers in long absence of fire - 10+ years	1
<b>Reptiles</b>					
<b>Carpet Python</b> Morelia spilota imbricata	SP & P4			Fox predation the major factor	1
<b>Woma, Ramsay's Python</b> Aspidites ramsayi	SP			Fox predation the major factor	1
<b>Dell's Skink</b> Ctenotus delli	P	Restricted distribution		Darling Range, stony hills	2
<b>Ornate Dragon</b> Ctenophorus ornatus	2	Exfoliating granite rocks		Habitat not affected by prescribed fire	2
<b>South-western Mulch Skink</b> Glaphromorphus australis	P1	1		Largely sub-coastal moist heathlands, southern forests	1
<b>Rotund Blind Snake</b> Ramphotyphlops pinguis	1	Granite outcrops		Mostly woodland areas	2
<b>Speckled Stone Gecko</b> Diplodactylus polyopthalmus	1			Northern forests, open woodlands and heath	1

<b>S-Western Earless Skink</b> <i>Hemiergis initialis</i>		2		Heathlands and scrublands	1
<b>Slippery Skink</b> <i>Lerista microtis</i>		2		Woodlands and scrubland	1
<b>Frogs</b>					
<b>Sand Frog</b> <i>Heleioporus psammophilus</i>		1		Sub-coastal sandy soils, woodlands and heath	1
<b>Roseate Frog</b> <i>Geocrinia rosea</i>		1		Karri forest area, moist streamside vegetation	1
<b>Nornalup Frog</b> <i>Geocrinia lutea</i>	P4	1	Restricted distribution	May decline for a few years following prescribed fire	2
<b>White-bellied Frog</b> <i>Geocrinia alba</i>	CR	2	Restricted distribution	Leewin-Naturaliste National Park and Private Property	3 #
<b>Yellow-bellied Frog</b> <i>Geocrinia vitellina</i>	VU	3	Very restricted distribution	Sunkland area, a few seepage sites, {< 0.2km <sup>2</sup> }	3 #
<b>Sunset Frog</b> <i>Spicospina flammocaerulea</i>	VU		Restricted distribution Peat bogs	A restricted number of peat sites in the Lake Surprise area	3 #
<b>Squelching Froglet</b> <i>Ranidella insignifera</i>		2		Swan coastal plain	1
<b>Glauert's Froglet</b> <i>Ranidella glauerti</i>		3		Widespread in moist areas	1
<b>Nicholl's Toadlet</b> <i>Metacrinea nichollsi</i>		3		A southern forest species, primarily in the karri	1
<b>Fish</b>					
<b>Mudminnow</b> <i>Galaxiella munda</i>	P4			Freshwater pools and streams in the southern forests	1
<b>Black-stripe minnow</b> <i>Galaxiella nigrostriatus</i>	P3		Restricted distribution	Freshwater streams and pools in the Brooke Inlet area	1
<b>Balston's Pygmy Perch</b> <i>Nannatherina balstoni</i>	P4			Freshwater streams in the southern forests	1



## Appendix 5b - Species to check for prior to timber harvesting

### Preliminary Check List of 74 Vertebrate Species

Species	Sched. Fauna	FDIS Units	Habitat Factor	Pred. Impact	Comments	Check Sp.
<b>Mammals</b>						
<b>Chuditch, Western Quoll</b> Dasyurus geoffroii	VU		Hollow logs	Fox may impact	Not significant	3
<b>Numbat, Walpurti</b> Myrmecobius fasciatus,	VU		Hollow logs	Fox may impact	Not significant	3
<b>Nguara, W Ringtail Possum</b> Pseudocheirus occidentalis	VU	3	Balgas & hollows	Hollow reduction	Fox predation	4#
<b>Quokka</b> Setonix brachyurus	VU	3	Swamps	Fox predation	Fox may impact	4#
<b>Brush-tailed Phascogale</b> Phascogale tapoatafa	3		Tree hollows	Hollow reduction	Not significant	3
<b>Quenda, Southern Brown Bandi</b> Isoodon obesulus fusciventer	5			Fox predation	Not significant	2
<b>Woylie</b> Bettongia penicillata ogilbyi	5			Fox predation	Not significant	2
<b>Tammar Wallaby</b> Macropus eugenii derbianus	5	2	Fire regen. Thickets	Fox predation	Fox may impact	4#
<b>Kwoora, Western Brush Wallaby</b> Macropus irma	4			Fox may impact	Not significant	1
<b>Western False Pipistrelle</b> Falistrellus mackenziei	4		Tree hollows	Hollow reduction	Not significant	3
<b>Rakali or Water Rat</b> Hydromys chrysogaster	4				Impact unlikely	1
<b>Common Brushtail possum</b> Trichosurus vulpecula			Tree hollows	Hollow reduction	Not significant	2
<b>S-western Pygmy possum</b> Cercartetus concinnus			Tree hollows	Hollow reduction	Not significant	2
<b>Greater Long-eared Bat</b> Nyctophilus timoriensis			Tree hollows	Hollow reduction	Not significant	2

<b>Gould's Long-eared Bat</b> Nyctophilus gouldi		Tree hollows	Hollow reduction	Not significant	2
<b>Lesser Long-eared Bat</b> Nyctophilus geoffroyi		Tree hollows	Hollow reduction	Not significant	2
<b>White-striped Freetail-bat</b> Nyctinomus australis		Tree hollows	Hollow reduction	Not significant	2
<b>Southern Freetail-bat</b> Mormopterus planiceps		Tree hollows	Hollow reduction	Not significant	2
<b>Gould's Wattled Bat</b> Chalinolobus gouldi		Tree hollows	Hollow reduction	Not significant	2
<b>Chocolate Wattled Bat</b> Chalinolobus morio		Tree hollows	Hollow reduction	Not significant	2
<b>Southern Forest Bat</b> Vespadelus regulus		Tree hollows	Hollow reduction	Not significant	2
<b>Western False Pipistrelle</b> Falsistrellus mackenziei		Tree hollows	Hollow reduction	Not significant	2

#### Birds

<b>Malleefowl</b> Leipoa ocellata	VU		Restricted area	Fox predation	Fox may impact	3#
<b>Australasian Bittern</b> Botaurus poiciloptilus	VU	1	Restricted habitat	Habitat not impacted	Impact unlikely	3
<b>Baudin's Black-Cockatoo</b> Calyptorhynchus baudinii	EN		Tree hollows	Hollow reduction	Not significant	3
<b>Carnaby's Black-Cockatoo</b> Calyptorhynchus latirostris	EN		Tree hollows	Hollow reduction	Not significant	3
<b>Muir's Corella</b> Cacatua pastinator	EN		Tree hollows	Hollow reduction	Not significant	3
<b>Tjijmiluk, Noisy Scrub-bird</b> Atrichornis clamosus	VU		V. restricted	Habitat reduction	Only if re-introduced	3#
<b>Peregrine Falcon</b> Falco peregrinus	P		Tree hollows	Hollow reduction	Not significant	3
<b>Black Bittern (SW population)</b> Ixobrychus flavicollis	2	1	Restricted habitat	Habitat not impacted	Impact unlikely	3
<b>Little Bittern</b>	4	1	Restricted habitat	Habitat not impacted	Impact unlikely	3

Ixobrychus minutus			impacted		
<b>Australian Bustard</b>	4		Habitat not		1
Ardeotis australis			impacted		
<b>Eastern Curlew</b>	4		Habitat not		1
Numenius madagascariensis			impacted		
<b>Hooded Plover (W subsp)</b>	4		Habitat not		1
Charadrius rubricollis rubricollis			impacted		
<b>Bush Stonecurlew</b>	4		Habitat not		1
Burhinus grallarius			impacted		
<b>Forest Red-tailed Black-Cockat</b>	3	Tree hollows	Hollow	Not significant	3
Calyptrorhynchus banksii naso			reduction		
<b>Barking Owl (SW population)</b>	2	Tree hollows	Hollow	Not significant	3
Ninox connivens connivens			reduction		
<b>Masked Owl</b>	3	Tree hollows	Hollow	Not significant	3
Tyto novaehollandiae novaehollandiae			reduction		
<b>White-browed Babbler (W wheat</b>	4			Impact unlikely	1
Pomatostomus superciliosus ashbyi					
<b>Crested Shrike-tit (SW subsp.)</b>	4			Impact unlikely	1
Falcunculus frontatus leucogaster					

<b>Australasian Shelduck</b> Tadorna tadonoides	Tree hollows	Hollow reduction	Not significant	2
<b>Black Duck</b> Anas superciliosa	Tree hollows	Hollow reduction	Not significant	2
<b>Chestnut Teal</b> Anas castanea	Tree hollows	Hollow reduction	Not significant	2
<b>Grey Teal</b> Anas gibberifrons	Tree hollows	Hollow reduction	Not significant	2
<b>Maned Goose, Wood Duck</b> Chenonetta jubata	Tree hollows	Hollow reduction	Not significant	2
<b>Nankeen Kestrel</b> Falco cenchroides	Tree hollows	Hollow reduction	Not significant	2
<b>Purple-crowned Lorikeet</b> Glossopsitta porphyrocephala	Tree hollows	Hollow reduction	Not significant	2
<b>Western Rosella</b> Platycercus icterotis	Tree hollows	Hollow reduction	Not significant	2
<b>Red-capped Parrot</b> Purpureicephalus spurius	Tree hollows	Hollow reduction	Not significant	2
<b>Port Lincoln Ringneck</b> Barnadius zonarius	Tree hollows	Hollow reduction	Not significant	2
<b>Elegant Parrot</b> Neophema elegans	Tree hollows	Hollow reduction	Not significant	2
<b>Boobook Owl</b> Ninox novaeseelandiae	Tree hollows	Hollow reduction	Not significant	2
<b>Barn Owl</b> Tyto alba	Tree hollows	Hollow reduction	Not significant	2
<b>Owlet Nightjar</b> Aegothelas cristatus	Tree hollows	Hollow reduction	Not significant	2
<b>Sacred Kingfisher</b> Halcyon sancta	Tree hollows	Hollow reduction	Not significant	2
<b>Rufous Tree-creeper</b> Climacteris rufa	Tree hollows	Hollow reduction	Not significant	2
<b>Striated Pardalote</b> Pardalotus striatus	Tree hollows	Hollow reduction	Not significant	2
<b>Dusky Wood-Swallow</b> Artamus cyanopterus	Tree hollows	Hollow reduction	Not significant	2
<b>Tree Martin</b> Cecropis nigricans	Tree hollows	Hollow reduction	Not significant	2

## Reptiles

<b>Woma or Ramsay's Python</b> Aspidites ramsayi	P		Logs/Rocks	Fox may impact	Not significant	2
<b>Carpet Python</b> Morelia spilota imbricata	P		Logs/Rocks	Fox may impact	Not significant	2
<b>Southern Death Adder (SW pop)</b> Acanthophis antarcticus	3				Impact unlikely	1
<b>Short-nosed Snake</b> Elapognathus minor	2				Impact unlikely	1
<b>Dell's Skink</b> Ctenotus delli	4				Impact unlikely	1
<b>Glaphyromorphus 'koontoolasi'</b>	1				Impact unlikely	1

## Frogs

<b>White-bellied Frog</b> Glaphyromorphus	CR	2	Restricted area	Potential impact	Caution necessary	3#
<b>Orange-bellied Frog</b> Geocrinia vitellina	VU	3	Very restricted	Potential impact	Caution necessary	3#
<b>Sunset Frog</b> Spicospina flammocaerulea	VU	2	Peat bogs	Potential impact	Caution necessary	3#
<b>Nornalup Frog</b> Geocrinia lutea	4	1	Restricted area	Potential impact	Caution necessary	3#

## Fish

<b>Pouched Lamprey</b> Geotria australis	1				Impact unlikely	1
<b>Mud Minnow</b> Galaxiella munda	4				Impact unlikely	1
<b>Black-stripe Minnow</b> Galaxiella nigrostriata	3				Impact unlikely	1
<b>Balston's Pygmy Perch</b> Nannatherina balstoni	4				Impact unlikely	1

## Appendix 6. Final list of taxa to check prior to Burning or Harvesting

### Appendix 6a - Species to check for prior to prescribed burning.

#### Check List of 21 Vertebrate species.

Species	Sched. Fauna	FDIS Units	Habitat Factor	Predicted Impact	Comments	Check Sp.
<b>Mammals</b>						
<b>Tammar wallaby</b> Macropus eugenii	P4	2	Fire regenerated thickets	Decline, late succession	Thicket habitat requires planned fire regime	4 #
<b>Quokka</b> Setonix brachyurus	VU	3	Dense swamp habitat		Isolated colonies may need planned fire regime	3 #
<b>Birds</b>						
<b>Mallee Fowl</b> Leipoa ocellata	VU		Moderate litter layer	Late succession	May require litter buildup over 4 to 5 years	3 #
<b>Freckled duck</b> Stricktonetta naevosa			Nesting sites in ti-tree over water		Autumn fire could disrupt nesting for 1 to 2 years	1 #
<b>Black Bittern</b> Ixobrychus flavicollis	P2	1	Restricted area of habitat		Autumn fire could disrupt nesting for 1 to 2 years	3 #
<b>Australasian Bittern</b> Botaurus poiciloptilus	VU	1	Restricted area of habitat		Autumn fire could disrupt nesting for 1 to 2 years	3 #
<b>Little Bittern</b> Ixobrychus minutus	P4	1	Restricted area of habitat		Autumn fire could disrupt nesting for 1 to 2 years	3 #
<b>Black-tailed Native Hen</b> Gallinula ventralis		1	Nests in reeds and thickets near water		Autumn fire could disrupt nesting for 1 to 2 years	2 #
<b>Spotless Crake</b> Porzana tabuensis		1	Nests in reeds and rushes		Autumn fire could disrupt nesting for 1 to 2 years	2 #
<b>Buff-banded Rail</b> Gallirallus philippensis			Nests in reeds and rushes		Autumn fire could disrupt nesting for 1 to 2 years	1 #
<b>Dusky Moorhen</b> Gallinula tenebrosa		1	Restricted area of habitat		Autumn fire could disrupt nesting for 1 to 2 years	2 #
<b>Purple Swamphen</b> Porphyrio porphyrio			Nests in reeds and rushes		Autumn fire could disrupt nesting for 1 to 2 years	1 #
<b>Musk Duck</b> Biziura lobata		1	Nests in reeds over water		Autumn fire could disrupt nesting for 1 to 2 years	2 #
<b>Blue-billed Duck</b> Oxyura australis			Nests in reeds & dense vegetation over water		Autumn fire could disrupt nesting for 1 to 2 years	1 #
<b>Rufous Night Heron</b> Nycticorax caledonicus		1	Nests in tree or shrub over water		Autumn fire could disrupt nesting for 1 to 2 years	2 #
<b>Clamorous Reed-Warbler</b> Acrocephalus stentoreus			Nests in reeds		Autumn fire could disrupt nesting for 1 to 2 years	1 #
<b>Little Grassbird</b> Megalurus gramineus			Nests in reeds and tussocks near swamps		Autumn fire could disrupt nesting for 1 to 2 years	1 #
<b>Noisy Scrub-bird</b> Atrichornis clamosus	VU		Dense thickets and deep litter	Late succession	Planned prescribed burning is required	3 #

## Appendix 6a - Species to check for prior to prescribed burning... continued

### Reptiles

Nil

### Frogs

<b>White-bellied Frog</b> Geocrinea alba	CR	2	Restricted distribution	Leewin-Naturaliste National Park and Private Property	3 #
<b>Yellow-bellied Frog</b> Geocrinea vitellina	VU	3	Very restricted distribution	Sunkland area, a few seepage sites, {< 0.2km <sup>2</sup> }	3 #
<b>Sunset Frog</b> Spicospina flammocaerulea	VU		Restricted distribution Peat bogs	Arestricted number of peat sites in the Lake Surprise area	3 #

### Fish

Nil

## Appendix 6b - Species to check for prior to Timber Harvesting.

### Check List of 9 Vertebrate species.

	Sched. Fauna	FDIS Units	Habitat Factor	Predicted	Comments	Check Species
<b>Mammals</b>						
<b>Western Ringtail Possum</b> Pseudocheirus occidentalis	VU	3	Balga & hollows	Hollow reduction	Fox predation	4#
<b>Quokka</b> Setonix brachyurus,	VU	3	Swamps	Fox predation	Fox may impact	4#
<b>Tammar Wallaby</b> Macropus eugenii derbianus,	5	2	Fire regen. Thickets	Fox predation	Fox may impact	4#
<b>Birds</b>						
<b>Mallee Fowl</b> Leipoa ocellata,	VU		Restricted area	Fox predation	Fox may impact	3#
<b>Noisy Scrub-bird</b> Atrichornis clamosus, Tjimiluk,	VU		V. restricted	Habitat reduction	Only if re-introduced	3#
<b>Frogs</b>						
<b>White-bellied Frog</b> Geocrinia alba,	CR	2	Restricted area	Potential impact	Caution necessary	3#
<b>Orange-bellied Frog</b> Geocrinia vitellina,	VU	3	Very restricted	Potential impact	Caution necessary	3#
<b>Sunset Frog</b> Spicospina flammocaerulea,	VU	2	Peat bogs	Potential impact	Caution necessary	3#
<b>Nornalup Frog</b> Geocrinia lutea,	4	1	Restricted area	Potential impact	Caution necessary	3#



## APPENDIX 7 – FAUNA TO BE TAKEN INTO ACCOUNT WHEN PLANNING FOR PRESCRIBED BURNING OR TIMBER HARVESTING

### SPECIES PROFILES

#### 1 Tammar Wallaby

##### Species

*Macropus eugenii* (Desmarest, 1817)

##### Weight

Western Australian wallabies

2.9–6.1 (4.6) kg in males

2.3–4.3 (3.7) kg in females

##### Subspecies

Three subspecies are recognised:

- *Macropus eugenii derbianus* (Western Australia)
- *Macropus eugenii decres* (Kangaroo Island, South Australia)
- *Macropus eugenii eugenii* (South Australia mainland)

##### Description

Dark, grizzled grey-brown above, becoming rufous on the sides of the body and the limbs, especially in males. Pale grey-buff below.

##### Other common names

Dama wallaby (South Australia)

##### Distribution

Distributed throughout most of the south-west of Western Australia from Kalbarri National Park to Cape Arid on the south coast and extending to western parts of the Wheatbelt. Populations also occurred in parts of southern South Australia. The tammar wallaby was disappearing from agricultural areas by 1909.

The tammar wallaby is currently known to inhabit three islands in the Houtman Abrolhos group, Garden Island near Perth, Middle and North Twin Peak Islands in the Archipelago of the Recherche, and at least nine sites on the mainland — including, Dryandra, Boyagin, Tutanning, Batalling (reintroduced), Perup, private property near Pingelly, Jaloran Road timber reserve near Wagin, Hopetoun, Stirling Range National Park, and Fitzgerald River National Park. The tammar wallaby remains relatively abundant at these sites which are subject to fox control.

They have been reintroduced to the Darling scarp near Dwellingup, Julimar Forest near Bindoon, Avon Valley National Park and to Karakamia and Paruna Sanctuaries.

## **Habitat**

Dense, low vegetation for daytime shelter and open grassy areas for feeding. Inhabits coastal scrub, heath, dry sclerophyll (leafy) forest and thickets in mallee and woodland.

## **Behaviour and ecology.**

Tammars have been uncommon on the mainland since shortly after the arrival of foxes in the forested south-west in the early 1930's. With respect to the forest area tamar wallabies are currently known to occur only in the Perup area to the east of Manjimup, Dryandra and Boyagin. At four other sites, Battaling east of Collie, the Darling Scarp near Dwellngup, Julimar Forest near Bindoon and the Avon Valley National Park colonies have been recently reintroduced (see also above).

The tamar wallaby is nocturnal. During the day they rest in low scrub and, although they begin to move at dusk, they do not leave the scrub until dusk and they return to it again before dawn. Individuals have defined home ranges that overlap the home ranges of others.

Tammars occur in colonies typically comprising of a few dozen individuals and are restricted to areas of scrub thicket that have a closed canopy and are also relatively open underneath with little ground cover. The thickets occur almost exclusively in valleys, swamps and depressions in the medium to low rainfall eastern and northern parts of the forested area.

Thicket forming scrubs in the forest area are restricted to a few species of *Melaleuca* and *Alocasuarina* as well as Heartleaf, *Gastrolobium bilobum*.

To be suitable for tammars, these thickets usually have to be more than 5-6 years of age and have an overhead cover of 30% - 50% at 1200mm above the ground, with generally more than 75% - 80% bare ground beneath and be of reasonable extent. If suitable thickets are located the presence of tammars is most simply determined by the presence or absence of characteristic runways.

Suitable thickets may occur along valleys and depressions in the FDIS Fauna Habitat types that they are listed to occur in but thickets are not necessarily always present nor are they always suitable habitat for tammars when they do occur.

A series of narrow pads through these thickets, too narrow and restricted for kangaroos, are the most obvious signs of the presence of tammars. These pads are most easily observed in summer and autumn when the pads have been trampled for some months by tamar in the absence of disturbance by rain. In winter where the ground is wet and clayey their characteristic tracks may be seen along the pads, Pads and tracks are most easily picked up where a forest track or road transects a thicket. Spotlighting is a useful technique for observing tammars especially where there is access through or adjacent to thickets

Limited radio tracking studies suggest that tammars fall prey to foxes when they leave their thickets and come out to feed in adjacent more open forest. It is likely that it is for this reason together with the fact that few areas of suitable thicket still exist, that tamar colonies are now rare on the mainland. The

open forest which tammars inhabit make them totally dependent on the thickets in which they live for protection against foxes. These thickets in turn depend on suitable fire regimes for their continued existence and regeneration in a form suitable for protection of the tammar from fox predation.

The tammars habit of living in colonies, their reliance on fire dependent thickets, together with the fact that so few colonies exist, make the tammar wallaby particularly susceptible to predation by foxes. For these reasons I believe that it would be prudent to treat the tammar as a threatened species rather than conservation dependent, as it is currently listed by CALM, and to be particularly cautious wherever this species occurs.

Tammar colonies may be rendered more vulnerable to fox predation where burning temporarily destroys their thicket cover. Destruction of cover by fire may be critical where an entire thicket is burnt out and there are no adjacent suitable thickets in which the tammars may seek refuge.

### **Diet**

The tammar wallaby is herbivorous and its diet consists mostly of grasses, they also eat herbs and leaves, shoots and flowers of shrubs. One study found up to 24 plant species in the diet, including *Gastrolobium bilobum*, *Danthonia setacea*, and *Corymbia calophylla*.

### **Breeding**

The breeding cycle is only well known for the Kangaroo Island sub-species (*Macropus eugenii decres*).

The tammar wallaby is one of only two macropod species that show a strictly seasonal patterns of breeding. Most young of *Macropus eugenii decres* are born from late January to March, as are the young of Garden Island Tammar, but the young of Perup Tammars are born from mid December to mid February, almost a month earlier.

The female mates within a few hours of giving birth, the resulting embryo remains quiescent during lactation.

The quiescent embryos are reactivated within a few days after mid December, and the young enter the pouch about 40 days later, 12 months after the mating at which they were conceived.

The single young is suckled in the pouch for eight to nine months and leaves the pouch in September or October, (October to November in Western Australia). Females become mature at about nine months while they are still suckling, but males do not become mature until nearly two years old. The rate of reproduction is high, with more than 90 per cent of all females carrying a pouch-young by the end of the breeding season. In some years many pouch-young are lost, particularly by one-year-old females. In all years, mortality is high among juveniles during their first summer and may reach 40 per cent.

### **Threatening processes**

Fox predation, and loss of suitable thickets due to inappropriate fire regimes and land clearing.

## **Conservation status**

### **Macropus eugenii derbianus**

- 2000 IUCN Red List of Threatened Species Lower Risk (near threatened)
- Western Australia Wildlife Conservation Act - Not Listed (Priority 4)
- Environment Protection and Biodiversity Conservation Act - Not listed

### **Macropus eugenii decrees**

- 2000 IUCN Red List of Threatened Species Lower Risk (near threatened)
- Western Australia Wildlife Conservation Act - N/A
- Environment Protection and Biodiversity Conservation Act - Not listed

### **Macropus eugenii eugenii**

- 2000 IUCN Red List of Threatened Species - Extinct in the Wild
- Western Australia Wildlife Conservation Act - N/A
- Environment Protection and Biodiversity Conservation Act - Extinct

## **Management in Western Australia**

The following management actions are recommended:

- monitor tammar wallaby populations at forest and woodland sites as part of threatened species reintroduction programs and broad scale fox control programs; and
- implement appropriate fire regimes to ensure regeneration of shelter thickets.

## **Recommendations prescribed burning and timber harvesting**

Tammar distribution maps should be consulted and wherever tammars are found to be present within or adjacent to the proposed burn the following strategy is recommended.

### **Prescribed burning**

Tammar thickets require occasional burning under dry conditions to ensure their long term viability.. The different species that form tammar thickets all have a limited life span, the plants die and in the absence of fire the plants forming the thickets fail to regenerate in sufficient numbers to form suitable cover for the tammar. Tammar thickets need to be sectioned into two or more parts each of which are burnt on a rotation which maintains suitable cover for the tammar. The rotation will vary with species forming the thickets but is usually 20 or more years.

Try to avoid burning tammar thickets unless the area is, contiguous with and a part of, a large area of tammar habitat ie. tammar may be present along several kilometers of creek, in such a case burning a section should not pose a major problem to them provided fox baiting is carried out until such time as their cover returns, usually within 4 -6 years in jarrah forest.

In the unusual case of an isolated tammar thicket, plan to restrict burning to a portion of the thicket only..

When burning a portion of a tammar thicket try to burn the gully towards the retained unburnt section rather than away from it. This procedure gives the animals the best chance to escape into the unburnt section. Never deliberately surround a tammar thicket with fire.

### **Timber Harvesting**

#### **Road construction and upgrading**

Wherever tammars are found to be present within or adjacent to the coupe the following strategy is recommended.

Avoid wherever possible constructing new tracks or upgrading old tracks that run along the edge of valley tammar habitat (N.B. in jarrah forest this may conflict with dieback hygiene requirements).

Avoid wherever possible constructing new tracks across creek lines through tammar habitat. If this is unavoidable or where old tracks need to be upgraded, the aim should be as little disturbance to the vegetation as possible ie restrict disturbance as much as possible to the area occupied by the existing track.

#### **Fox baiting**

Hand bait burn perimeter tracks as well as selected tracks out 5km from the thicket on an approximate 2km grid basis on a three monthly basis over the spring, summer, autumn period.

This should commence at the time the burn perimeter is put in and continue until the undergrowth on the burn gives sufficient cover for tammar, usually about 4 -6 years after the fire.

Fox baiting for the benefit of tammar will also have positive side benefits for other more widespread species, in particular the Western Ringtail possums *Pseudocheirus occidentale* Southern brown bandicoots, Chuditch *Dasuyrus geoffroii* and Phascogales *Phascogale tapoatafa*. Whilst it is not considered that these species require any special treatment, baiting to benefit tammars may also have the side benefit of assisting these species recover faster following burning. Similarly in areas where Woylies *Bettongia penicillata* and Numbats, *Myrmecobius fasciatus* occur these species will also benefit by more rapid recovery following the disturbance.

#### **Other interesting facts**

- The tammar wallaby was the first 'kangaroo' seen by Europeans (in 1629) by the crew of the Dutch ship *Batavia* stranded near the Wallabi Islands in the Houtman Abrolhos off Geraldton.
- Tammar wallabies were so named because they were once common in Tamma (*Allocasuarina campestris*) thickets.
- Lifespan is approximately 11 years for males and 14 years for females.

- In semi arid areas such as the Aboholhos Islands, tammar wallabies are able to drink sea water when fresh water is unavailable.

### **Selected references**

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- Anon. 1998. Bush Telegraph: Two More Mammals off the Threatened List. *LANDSCOPE* 13(4): 5.

### **Website links**

- [http://www.calm.wa.gov.au/plants\\_animals/pdf\\_files/sp\\_tammar\\_wallaby.pdf](http://www.calm.wa.gov.au/plants_animals/pdf_files/sp_tammar_wallaby.pdf)
- [http://www.naturebase.net/projects/west\\_shield.html](http://www.naturebase.net/projects/west_shield.html)
- <http://www.ea.gov.au/biodiversity/threatened/action/marsupials/13.html>
- <http://www.ea.gov.au/biodiversity/threatened/action/marsupials/26.html>
- <http://www.geobop.com/mammals/Marsupialia/Diprotodontia/Macropodidae/>
- <http://www.perthzoo.wa.gov.au/bushwalk.html>

## **2 Quokka**

### **Species Name**

*Setonix brachyurus* (Quoy and Gaimard, 1830).

### **Size**

Head and Body length

435-540 (487)mm in males

400-500 (468)mm in females

### **Tail length**

260-319 (289)mm in males

245-285 (265)mm in females

### **Weight**

2.7-4.2 (3.6)kg in males

2.7-3.5 (3.9)kg in females

### **Subspecies**

None recognized

### **Description**

Small, stout, heavily built wallaby with short tail and very short rounded ears, snout unfurred. Fur thick and coarse, grey-brown above with a tinge of rufous and the underparts are lighter in colour. No definite body markings.

### **Other Common names**

Short-tailed wallaby, short-tailed pademelon.

### **Distribution and habitat**

At the time of European settlement the quokka was common in the south-west of Western Australia. Quokkas also occur on Rottnest and Bald island.

Quokkas have been uncommon on the mainland since shortly after the arrival of foxes in the forested south-west in the early 1930's. They currently still occur from Jarradale to Walpole but are more widely distributed in the southern forests, to the south of the Preston river, than they are in the northern forests where they are now quite rare (see De Torres et al 2003 in prep). Quokkas are also known to still occur at Two Peoples Bay Nature Reserve, Torndirrup National Park, Mt. Manypeaks National Park and Stirling Range National Park.

### **Behavior and Ecology**

Colonies are small, typically comprising of few individuals and are restricted to areas of swamp and dense streamside vegetation. Cover in 'quokka swamps' is most often comprised of dense sword grass *Lepidosperma effusum* and square stemmed rush, *Lepidosperma tetraquetrum* or other impenetrable vegetation which the quokkas negotiate through a system of characteristic

'runnels'. They live in the dense vegetation during the day coming out at night to feed on grasses and herbs. Limited radio tracking studies suggest that quokkas fall prey to foxes when they leave their runnels in the dense vegetation in which they live, to come out to feed in adjacent more open forest. It is likely that it is for this reason that quokkas are now comparatively rare and in low numbers wherever they occur on the mainland.

### **Diet**

Quokkas feed on small herbs and grasses.

### **Breeding**

On Rottneest Island where the quokka has been studied in detail, the breeding season starts in January in normal seasons and March in very hot summers. A single young is carried in the pouch until August and is suckled until October. Most females carry a quiescent blastocyst. On the mainland the quokka appears to breed throughout the year with births occurring in each month of the year.

### **Threatening Processes**

Colonies in the northern jarrah forest are particularly vulnerable to any disturbance because the few remaining colonies are widely dispersed in streamside and valley swamp thickets, usually dominated by *Agonis linearifolia*. These thickets are often linear and narrow and not infrequently they are also isolated from other colonies of quokkas.

Foxes are the greatest threat to colonies of quokkas, whilst they remain within their thicket habitat they are relatively safe, but any disturbance of their habitat is likely to result in increased predation.

Fire may temporarily destroy the quokkas thicket cover and result in increased fox predation. In situations where an entire swamp is burnt out and there are no adjacent swamps suitable for quokkas to seek refuge in, this may prove fatal to the colony.

Where timber harvesting activities open up the forest adjacent to their streamside habitat this may also facilitate fox predation.

Wild pigs root around and disturb the understory opening up quokka thickets allowing greater access to foxes which increases predation. The effect of pigs on quokka populations as well as other species depending on dense cover for survival, like the quenda (short-nosed bandicoot), has yet to be quantified. However there can be little doubt that this has been a factor in the decline of the quokka in the northern jarrah forest and one which is likely to prove of importance also in the southern forests as pigs continue their spread south.

### **Conservation Status**

- 2000 IUCN Red List of Threatened Species - Vulnerable
- Western Australian Wildlife Conservation Act - Threatened
- Environment Protection and Biodiversity Conservation Act - Threatened (Vulnerable)



## **Management in Western Australia**

- taxonomic study.
- forest wide survey of quokkas to be initiated in September 2003, the results so far suggesting that quokkas are more widespread, especially in the south, than previously thought.
- most of the known populations on the Darling scarp and Two Peoples Bay continue to be protected by fox baiting under the Western Shield Program.
- Western Shield fox baiting is currently being reviewed which should result in further protection for the quokka, especially in the north.
- The Fauna Distribution Information System (FDIS) is currently being implemented to ensure that fauna in need of special protection, including quokkas are taken into account in timber harvesting operations.
- The Fire Biodiversity Project currently being developed will further ensure that fauna in need of special protection, such as quokkas also are taken into account in prescribed burning operations.

## **Recommendations for prescribed burning and timber harvesting**

Current evidence suggests that quokkas require their habitat to be a mozaic of specific age classes and that this was caused naturally by fire prior to the arrival of europeans when quokkas were plentiful Four things have changed since that time:

- quokkas are no longer plentiful, especially in the northern jarrah forest;
- natural fire regimes no longer occur;
- the European red fox has been introduced and is now the major predator of the quokka;
- the domestic pig has become feral and spread across much of the range of the quokka and by its activities is increasing the vulnerability of quokka populations to fox predation.; and
- a portion of the forest is managed for timber production which may cause temporary disturbance to quokkas.

Because of these changes quokka habitat now need to be managed with prescribed fire to create the necessary mozaic of age classes if the quokka is to survive. For this management to be successful it is essential that predation by foxes and the widely dispersed nature of quokka colonies, especially in the northern jarrah forests, are taken into account.

Timber harvesting operations should aim to minimize disturbances that may result in increased fox predation.

## **Action when FDIS indicates the possible presence of quokkas**

It is apparent from the "Liddelow" quokka surveys that quokkas in the southern forests (the area east of the 'Darling Scarp' and south of the Blackwood River) have increased and spread significantly since the introduction of the Western Shield baiting program. The simplicity of the survey methodology, scoring thickets on a one to three scale based on field

inspection, is offset by the very comprehensive coverage of all creek systems within the survey area. Whilst it may be argued that quokka 'numbers' are not well covered by the survey technique it cannot be denied that quokka populations, albeit apparently sometimes small populations, are currently widespread throughout the southern forests. In view of the survey results it is proposed that extra baiting is not necessary in the southern forests either prior to or following prescribed burning or timber harvesting operations. The current regime of four baitings per year is considered sufficient.

For the area encompassed by the 'Donnybrook Sunklands' where quokkas are less widespread it is suggested that two extra baitings per year, one around October (weaning time) the other around February (dispersal time), should be done in areas where timber harvesting operations are carried out within 2km of farmland.

In areas to the north of the Blackwood River, other than the 'Donnybrook Sunklands', on the Darling plateau, the two extra baitings are also recommended for both Prescribed burning and timber harvest operations.

Recorded quokka occurrences, based on the 'Liddelow' surveys as well as other known quokka occurrences, will be recorded on computer generated maps provided with the FDIS checks of prescribed burns or timber harvesting coupes for most areas. In the 'Donnybrook Sunklands' and in the northern jarrah forest in areas not yet surveyed and where no maps are available, the following procedure needs to be carried out.

Streamside vegetation or other lowland habitat, within or immediately adjacent to harvesting coupes or within blocks proposed for prescribed burning, that have been given probability scores of 3 = should or 2 = could occur, should be inspected for signs of the presence of quokka.

The process of inspection may be greatly simplified and also made more accurate by concentrating on:

- the listed FDIS quokka habitats, mostly valley types, at points where these are crossed by tracks - this may be done simply by vehicle, stopping to inspect for the presence of runnels where the road or track crosses potential quokka swamp habitat; and
- in the case of timber harvesting coupes, the general area around the forest block where harvesting coupes are planned should be covered - in many cases two or more coupes are planned in the same block and it is simpler and also gives a better overall picture if all likely sites in and around the area proposed for harvesting are inspected.

District and/or Regional staff with an aptitude for that sort of work can be easily trained to do this where necessary, in many cases, especially in the south, some staff are already familiar with searching for signs of quokka.

Coupes with probability scores of 1 = possibly could occur, need only be inspected in cases where local knowledge suggests they might be there or signs of them are detected during operations.

Where quokka presence has been detected by either the computer maps or by field inspection the following procedures are recommended.

### **Prescribed burning.**

The strategy should be to create and maintain a mozaic of specific age classes of quokka habitat across the landscape wherever quokkas occur. The mozaic should comprise no more than 15% to 20% habitat aged 15-20 years, habitat of this age is generally less suitable to quokkas. The portion of the habitat <15 years of age should ideally be a mozaic of 2 to 3 ages with at least half of it aged 5-6 years or more, dense and tall enough to provide a safe retreat from foxes.

The portion of the habitat that is young regeneration, most suitable for the quokka to browse and graze in, is necessarily a compromise between having a reasonable feeding area for the quokkas as well as sufficient area of dense cover to serve as a refuge from the fox.

In some areas in the northern jarrah forest where there are remnant isolated quokka populations these may be subject to special management programs to help them survive and expand. This is likely to involve extra fox baiting at the time of burning. Specific baiting strategies, based on the particular needs of each such colony e.g. the proximity of the colony to farming areas etc, should be developed by CALM.

### **Timber harvesting.**

Wherever quokkas are found to be present within or adjacent to a timber harvesting coupe the following strategy is recommended.

### **Road construction**

Avoid wherever possible constructing new tracks or upgrading old tracks that run along the edge of streamside quokka habitat (N.B. in jarrah forest this may conflict with dieback hygiene requirements).

Avoid wherever possible constructing new tracks across creek lines through quokka habitat. If this is unavoidable or where old tracks need to be upgraded, the aim should be to cause as little disturbance to the vegetation as possible ie restrict disturbance as much as possible to the area occupied by the existing track.

### **Burning**

Where regeneration burning is involved try to avoid burning quokka swamps unless the area is, contiguous with and a part of, a large area of quokka habitat ie. Quokkas may be present along several kilometers of creek, in such a case burning a section should not pose a major problem to them provided fox baiting is carried out until such time as their cover returns, usually within 2 to 3 years in karri forest, it may take longer in jarrah forest.

In the unusual case of an isolated quokka swamp, plan to restrict disturbance to a portion of the swamp only, this includes tree felling as well as burning operations.

When burning a portion of a quokka swamp try to burn the gully towards the retained unburnt section rather than away from it. This procedure gives the animals the best chance to escape into the unburnt section. Never deliberately surround a quokka swamp with fire.

## **Fox baiting**

Western Shield currently baits forest areas four times a year, areas that have been identified as requiring extra baiting will need two extra baitings per year at the most critical times for foxes.

Hand bait coupe perimeter tracks as well as selected tracks out 2 km from the coupe on an approximate 2 km grid basis (use existing tracks 'as they come') around October (nursing and weaning time) and February (dispersal time). These baitings should be separated in time at least one month from any Western Shield baitings. Baiting should be done along tracks at approximately 200m intervals or aerial baiting may be used with 5 baits/km<sup>2</sup> if this is cheaper. This operation should commence in the October or February closest to the time the coupe perimeter track is put in and continue until the undergrowth in the coupe gives sufficient cover for animals, usually about 3 years after coupe regeneration.

Coupe based fox baiting for the benefit of quokka will also have positive side benefits for other species, in particular the Western Ringtail possums *Pseudocheirus occidentale* where these occur in very low numbers and perhaps have gone undetected. Other species such as the Southern brown bandicoots *Isodon obesulus*, Chuditch, *Dasuyrus geoffroii* and the Phascogale, *Phascogale tapoatafa*, whilst not requiring special baiting, may nevertheless still benefit from extra fox baiting and return earlier to the regenerating forest.

## **Other interesting fact**

- The Dutch explorer Willem de Vlamingh referred to Rottnest Island as 'Rottenest' (rat nest) after the rat-like animals he saw there and which we now call quokkas.
- During the 1920s, quokkas were considered pests of pine plantations other farming practices near Perth and were consequently hunted and poisoned.

## **Selected references**

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- Kitchener, D.J. 1995. Quokka. In R. Strahan (Ed.) The Mammals of Australia. Australian Museum and Reed Books. Chatswood, NSW.
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- Anon 1997-98. Quokkas and Easter bilbies - indicators to a success story. *LANDSCOPE* 13(2): 9.

**Website links**

[http://www.calm.wa.gov.au/plants\\_animals/pdf\\_files/sp\\_quokka.pdf](http://www.calm.wa.gov.au/plants_animals/pdf_files/sp_quokka.pdf)

[http://www.naturebase.net/projects/west\\_shield.html](http://www.naturebase.net/projects/west_shield.html)

[http://www.naturebase.net/plants\\_animals/mammal\\_quokka.html](http://www.naturebase.net/plants_animals/mammal_quokka.html)

<http://www.ea.gov.au/biodiversity/threatened/action/marsupials/23.html>

<http://www.perthzoo.wa.gov.au/quokka.html>

### **13 - Western Ringtail possum**

#### **Species Name**

*Pseudocheirus occidentalis* (Thomas, 1888).

#### **Recent Synonyms**

*Pseudocheirus peregrinus occidentalis*

#### **Size**

Head and body length, 300-400mm

#### **Tail length**

300-400mm

#### **Weight**

900-1100g

#### **Subspecies**

None

#### **Description**

Medium sized possum, very dark brown to dark grey or black dorsally, cream ventrally. Ears short and rounded. Tail prehensile, slender with terminal white tip.

#### **Other Common names**

Nyoongar name = Ngwayir

#### **Distribution and habitat.**

At the time of European settlement the distribution of the Western Ringtail extended through the south west from north of Jurien Bay to near Esperance.

Ringtails occur in forest and woodlands, but they are now uncommon over most of the south-west. CALM Wildlife records them as still being present in the Wheatbelt, South Coast, Swan, South West and Warren regions.

Although they are listed as a 'threatened' species Western Ringtails are locally common in jarrah forest in the Perup-Tone river area to the east of Manjimup and on the Leeuwin-Naturalist ridge in W A peppermint *Agonis flexuosa* woodland, especially in the area around Busselton. Elsewhere Ringtails appear to be uncommon to rare, living as small groups in isolated pockets. These small isolated colonies occur primarily in the southern forests, generally along watercourses or along the coastal strip in woodlands of W.A. Peppermint.

#### **Behaviour, Diet and Ecology.**

The Western Ringtail is highly arboreal, feeding, resting and socializing mostly in the canopy, it is rarely seen on the ground. Leaves of jarrah, marri and WA peppermint as well as other species are the main dietary component. Adults

are usually seen singly or in pairs, the females often being accompanied by young, usually only one.

Western Ringtails have small home ranges 0.5 to 1.5 hectares in Peppermint forest and up to 2.5 hectares in eucalypt forest. Home ranges may overlap by as much as 70 percent. Young usually disperse to home ranges adjacent to their natal home range but may travel across several home ranges in areas where the population of possums is dense.

In peppermint woodland ringtails construct nests or 'dreys' typical of their genus, in jarrah forest they mostly use tree hollows for nesting and resting up during the day. They may use from three to eight nests or rest sites during the course of a year. Where balga, *Xanthorrhoea preissei* occur, ringtails may also utilize the 'skirts' of dried leaves for nesting.

It is likely that the capacity to build dreys gives ringtails an advantage over the more aggressive, largely 'tree-hollow using', brushtail possum *Trichosurus vulpecula*, in situations where there is competition for hollows between the two species. e.g. coastal peppermint woodlands.

### **Breeding.**

Births occur mostly during the winter months but some populations may breed all the year round. The young emerge from the pouch at approximately 3 months, (weight approx. 125gms.) and suckle until they are six to seven months old (weight approx. 550gms.). In captivity females have attained adult body weight at about eight months and given birth at approximately ten months. Life span is unknown but females have been recorded breeding in three successive years.

### **Threatening Processes**

Clearing of habitat, especially coastal Peppermint forest and woodland for development and fox predation are perhaps the main threatening processes. Timber harvesting and regeneration has the potential to endanger small isolated colonies in particular if adequate precautions are not taken with respect to fox predation (see later).

### **Conservation Status**

The Western Ringtail possum is presently listed as Vulnerable (VU) on the Western Australian list of Declared Threatened Fauna. The IUCN also lists the species as a 'threatened' species and Vulnerable.

### **Management in Western Australia**

There are re-introductions occurring of Western Ringtail possums displaced by development taking place in several areas in the south west. As a part of these re-introductions, studies that are addressing issues such as habitat preference, threatening processes, diet, disease and other matters are also taking place.

The effects of Timber harvesting and regeneration on the Western Ringtail possum are also being studied at Kingston block east of Manjimup. The results of these studies are being incorporated into Timber harvesting and regeneration plans and also in planning for prescription burns.

## **Recommendations for Timber harvesting and regeneration**

Early results from the Kingston study suggest that it is unlikely that many ringtails will survive intensive timber harvesting operations regardless of whether fox baiting is carried out or not. Ringtails like many other species will however re-colonize the coupe from surviving adjacent populations when the regenerating forest becomes suitable for them.

It is not yet known how long it takes for ringtails to return to regenerating jarrah and karri areas. Spotlighting in the Perup forest, in 5-10 year old jarrah/marri regrowth, resulting from past selection cutting, suggests that ringtails may utilize regrowth areas at an early stage (pers. obs.). Ringtail possums have also been recorded using dreys built in jarrah regrowth during radio tracking studies in Kingston block.

Young jarrah regrowth provides a similar situation to the peppermint woodlands with only habitat trees and logs available for brushtail den -sites. Ringtail possums are frequently seen in regrowth areas during spotlight surveys (pers. obs.) and it is quite likely that the ringtails ability to build dreys may give them an advantage over the brushtail in recolonizing regrowth areas.

In karri forest where ringtails occur almost exclusively in riparian habitat, timber harvesting should have minimal effect on them. Ringtails have been observed in karri regrowth and they may take advantage of the opportunities presented by the harvesting and regeneration operations by expanding into young regrowth karri.

Since Ringtails are unlikely to survive wood harvesting and regeneration operations in either jarrah or karri forest the strategy should be one of ensuring that colonies of ringtails adjacent to timber harvesting coupes are protected rather than one of attempting to save individuals on the harvesting coupe. Young Ringtails from these protected colonies can then provide nuclei from which new colonies can re- established in the regrowth forest as soon as it reaches a stage sucession suitable to Ringtails.

Predation following disturbance is a natural process, albeit exacerbated by the recent presence of foxes and cats, and we should not become obsessed with predation of individual animals on coupes. What is more important is to ensure that any Ringtails outside the harvesting coupe as well as any other populations of ringtails nearby (within 1 to 2 km) of the harvesting coupe, are protected. Young animals from these protected populations will provide the nuclei from which coupes can become populated / re-populated with ringtails when the forest is at a suitable stage of succession.

If ringtails are found to be present in any coupes or the surrounds, extra fox baiting and other actions may be required. The extent and intensity of baiting should depend primarily on the habitat, dense habitat like riparian karri types offer more protection for Ringtails and therefore require less baiting than more open jarrah or wandoo types. The manner in which road construction and burning are carried out will also have a marked effect on any baiting regime.

If the presence of ringtails either within or on the edge of a coupe is indicated by the FDIS check then the recommendations below should be followed. If the FDIS check indicates ringtails within 2 km of the planned coupe then an



inspection of suitable habitat within and adjacent to the coupe should be made as follows.

Ringtails presence may be confirmed by spotlighting the general area of each coupe, concentrating particularly on riparian areas. It is recommended that any coupes with probability scores of 3 = should or 2 = could occur, are spotlighted.

Coupes with probability scores of 1 = possibly could occur, need only be inspected in cases where local knowledge suggests that ringtails might be there or signs of them are detected during pre-harvest operations.

As for the quokka it is simpler and gives a more complete picture if when spotlighting for Ringtails coupes are treated in groups where two or more occur in one forest block or are located close together. Spotlighting should be done from a vehicle and a total of two nights is recommended. If no ringtails are located then they are either not present or present at levels which for practical purposes are too low to detect.

The number of nights spotlighting should be reviewed after the first season. If Ringtails turn out to be located always on the first night or not at all then it may be possible to reduce the number of nights or to validate out predictions in FDIS Habitat categories where ringtails are consistently not located.

Searching for 'possum trees', trees with characteristic tracks up the trunk, may be of assistance but 'ringtail trees' are difficult to distinguish from 'brushtail' so the method has limited value. In jarrah forest the presence of 'possum trees', which tend to be mostly a sign of brushtail possums, are sometimes also a sign of a 'good fauna area' where ringtails may also have survived foxes.

Looking for dreys is also possible but not recommended unless someone is familiar with them, in karri forest they are easily confused with White-browed Babbler nests. Scats are also difficult to locate and even more difficult to identify and no reliable method of trapping ringtails is known.

If ringtails are located during survey an attempt should be made to determine the extent of the colony which may necessitate further spotlight surveys. It is important to determine whether or not the colony is wholly within the bounds of the coupe, a most unlikely event, partially within the coupe, or totally outside the coupe. This is essential because as already stated, the primary aim of ringtail management in timber harvesting areas should be to protect adjacent or nearby colonies, rather than attempting to save animals on the coupe per se.

## **Recommendations.**

### **Karri.**

If the presence of ringtails is established the following strategy is recommended:

#### **Road construction;**

- Avoid wherever possible constructing new tracks or upgrading old tracks that run along the edge of streamside ringtail habitat (N.B. in jarrah forest this may conflict with dieback hygiene requirements).

- Avoid wherever possible constructing new tracks across creek lines through ringtail habitat. If this is unavoidable or where old tracks need to be upgraded, the aim should be as little disturbance to the vegetation as possible i.e. restrict disturbance as far as possible to the area occupied by the existing track.

### **Burning;**

Fire opens the undergrowth and reduces cover increasing Ringtail exposure to fox predation.

- Ideally plan to avoid prescribed burns where Ringtails are protected in adjacent or nearby areas to harvesting coupes during the period two to three years prior to or during timber harvesting and regeneration operations. NB this may not always be possible as timber harvesting coupes are rarely identified more than one year in advance. Prescribed burning in these areas should also be avoided in the first two to three years following Regeneration operations. Prescription burns within in the coupe area following Harvesting and regeneration is dictated by the sensitivity of young trees with thin bark to fire by which time the Ringtail population should be less vulnerable to opening of the forest.

### **Fox baiting;**

Western Shield baiting is carried out four times a year and it is only in areas where ringtails have been demonstrated to occur that extra baiting recommended.

Hand bait coupe perimeter tracks as well as selected tracks out from the coupe and any adjacent ringtail colony for a distance of 2 km on approximately a 2 km grid using tracks 'as they come', around October (suckling and weaning time), and February (dispersal time). The October and February baitings should be timed so as not to occur within one month of any Western Shield baiting. Baiting on the tracks should be carried out at approximately 200m intervals, or aerial baiting with baits at 5 baits/km<sup>2</sup> may be used if this is cheaper. Baiting should commence during the October or February closest to the time the coupe perimeter track is put in and the regime should continue for two to three years until such time as the understory has sufficiently recovered to provide some protection for the Ringtails.

If Western Shield hand baiting is being carried out in the karri forest this may replace one or more coupe baitings provided these baiting/baitings are of similar intensity.

### **Jarrah.**

If the presence of ringtails is established the following strategy is recommended:

### **Road construction;**

As for karri.

### **Burning;**

- As for karri, except that burning should preferably not be done within 2 to 3 years prior to, or 3 to 4 years following, harvesting. In areas to the south of Manjimup the same schedule as for karri may be used because of the more rapid recovery of the understorey in the higher rainfall areas.
- If burning is necessary, plan to retain a portion of the ringtail habitat unburned.

### **Fox baiting;**

- As for karri, except that baiting may need to continue for three to four years instead of two to three because of the slower recovery of the understorey. South of Manjimup in the higher rainfall areas two to three years may be sufficient
- As with quokkas, baiting to assist ringtail recovery, has side benefits. Where ringtails occur in the forest areas to the east of Manjimup, there are often Woylies, *Bettongia penecillata* and Numbats, *Myrmecobius fasciatus* present as well, these species will also benefit by more rapid recovery following disturbance.
- If it happens during the course of harvesting operations that Ringtails turn up in an area where they were not detected prior to the operations commencing, the appropriate strategy, as outlined above, should be adopted immediately.

### **Other interesting facts**

It seems that fox predation has caused the Ringtail to become locally extinct in its habitat across much of the forest area and that this is the reason that ringtails are often not present in otherwise suitable habitat. This has made it difficult to predict the occurrence of Ringtail possums with confidence because the habitats in which they should occur are only rarely inhabited, a situation that is resulting in an over-prediction of their occurrence.

Future predictions will be greatly assisted by keeping records of the results of all coupe inspections/spotlight surveys.

### **Selected References**

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- Jones, B.A., How, R.A. and Kitchener, D. J. 1994. A field study of *Pseudocheirus occidentalis* (Marsupialia: Petauridae). I. Distribution and habitat. *Wildlife Research*, 21,175-188.
- Jones, B.A., How, R.A. and Kitchener, D.J. 1994. A field study of *Pseudocheirus occidentalis* (Marsupialia: Petauridae). II. Population Study. *Australian Wildlife Research*, pp189-201.

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**Website links**

[http://www.calm.wa.gov.au/plants\\_animals/pdf\\_files/sp\\_western\\_ringtail\\_possum.pdf](http://www.calm.wa.gov.au/plants_animals/pdf_files/sp_western_ringtail_possum.pdf)

### **3 - Mallee Fowl.**

#### **Species Name.**

*Leipoa ocellata.*

#### **Size.**

Length about 600mm.

#### **Weight.**

Adult 1.8-1.9 kg.

#### **Subspecies.**

None.

#### **Description.**

Large ground bird, adults similar - see Standard Texts on Birds.

#### **Other Common names.**

Gnow, Lowan.

#### **Distribution.**

Known Occurrence Localities. Scattered populations over the western slopes and plains of NSW with a stronghold in the mallee of the south west. Also occurs in North West Victoria and scattered through South East South Australia. Another population occurs across south-west Western Australia. Known from the Pilliga Scrub, but it may have gone to extinction in that district in the recent past.

In WA it may be found in open country (mallee and sandplain) south and west of a line from the north of Carnarvon to Carnegie and the Warburton Range. It is absent from the forested area except for an isolated small colony in the southern forests in Karri and Jarrah forest between Walpole and Lake Muir, and on sand on the flats to the north east of Walpole. It formerly also occurred along the coastal fringe near the mouth of the Warren River to Cape Leeuwin and Naturaliste and near Busselton. It also occurs in Dryandra forest near Narrogin.

#### **Habitat.**

General Habitat Requirements. Mallee or woodland on sandy soils. Requires leaf and twig litter for nest mound building. Formerly in arid and wetter areas adjacent to the present habitat. It was also found in Mulga *Acacia aneura*. Frith (1962) listed light soil, dense shrub and an abundance of one or more species of *Acacia* in all habitats.

Present surviving populations of mallee fowl live in mallee and eucalypt woodland, the southern forest population is unusual in that it occurs in a small area of karri forest with an understory of *Acacia pentadenia*, open jarrah-marri forest on sand with a mixed understorey including a number of acacias and peas, and also in heath on the 'southern flats'.

### **Behaviour and Ecology.**

The mallee fowl lives in mallee and eucalypt woodland growing on poor sandy soil. In winter and spring it depends on the new shoots and flowers of herbs for food. In summer and autumn, it utilizes the seeds and fruit of acacias and other plants. Where it occurs near wheat fields, it feeds on fallen grain. The mallee fowl is well known for its nesting practices, it builds a nest mound in which the eggs incubate with the warmth of rotting vegetation and the sun. No care is taken of the young which are left to fend for themselves after they hatch. Most mallee fowl remain within a few hundred meters of their birthplace throughout their lives.

### **Diet.**

Shoots and flowers of herbs and seed, especially of acacia species.

### **Breeding.**

As mentioned above mallee fowl incubate their eggs in large nests of rotting leaf material. Mounds can be up to three meters across and one meter high. The leaf material is scraped together from the surrounds into a depression approximately 600-900mm deep and 1200-1500mm wide. The female lays usually between 15-24 eggs in one season between September and December, the incubation period is between 50 to 90 days.

For more detail see standard texts.

### **Threatening Processes.**

Permanent loss of habitat such as by land clearing for agriculture and urban development.

The biggest threat at the present time is predation of eggs by the introduced European fox *Vulpes vulpes*. Foxes locate mallee fowl mounds and once located re-visit them regularly digging up newly laid eggs resulting in the hatching of very few chicks. This threat is continuous non stop across all habitat where mallee fowl still occur. It is likely that many of the remaining mallee fowl in areas where there is no fox control are old birds that are not being replaced by young birds.

Sheep and rabbits probably also compete for food.

### **Conservation Status.**

- 2000 IUCN Red List of Threatened Species Endangered.
- Environment Protection and Biodiversity Conservation Act Threatened (Endangered).
- In WA under the Western Australian Wildlife Conservation Act the mallee fowl is categorized as vulnerable and listed as a Priority 1 threatened species - 'taxa with few poorly known populations on threatened lands', on the CALM list of threatened species.

### **Management in Western Australia.**

In WA the mallee fowl, like all native birds is protected and the species is also managed by protection in reserves. In the south west where Project Western

Shield is controlling fox numbers by regular baiting the species has a further measure of protection. It seems likely that without fox protection the species will become extinct in the wild within a few decades.

### **Recommendation for prescribed burning and timber harvesting.**

#### **Timber harvesting.**

Mallee fowl only occur in the area designated for timber harvest within a very limited area in the karri and heath covered 'flats' in the southern forests.

Very little is known about this isolated population but where birds are known to occur extreme care should be taken not to disturb their nesting and feeding areas so as to cause the birds to leave the area.

Mallee fowl are known to stay within a few hundred meters of their birth place so the following precautions are recommended;

#### ***If active nests are located;***

(a) The location of an active nest in the southern forests is a very rare occurrence and in such an event every effort should be made to ensure that the birds continue using their nest. The cutting coupe needs to be designed so as to exclude the area from cutting, a barrier of 200 meters is recommended. The excluded section of forest should abut onto forest that is not subject to cutting in the near future (15-20 years) this may be mature forest or regrowth from previous cutting.

NB. Mallee fowl in the area are known to inhabit karri regeneration. It is possible that the birds prefer regrowth forest because of the abundance of acacia seeds from acacias resulting from the regeneration burn. Regrowth areas are in some ways similar to the more traditional mallee and mulga habitats of the mallee fowl. At this stage however, because of the mixed forest structure in the area of forest that the birds are found in, it would be wise to assume that a mozaic of older as well as more recently regenerated forest is the most suitable habitat for the birds.

(b) Fox baiting such as is recommended for Quokkas should be carried out in the area.

#### ***If no nests are located but the birds are known to be in the area, ie have been sighted or tracks have been seen;***

(a) Every attempt should be made to avoid locating a coupe so as to center the known location within the coupe, rather it is recommended that the coupe as far as is possible is located so as to 'straddle' the known location. This suggestion is based on the fact, as indicated above, that mallee fowl in this area may prefer a mozaic of forest structure including both older and more recently regenerated forest.

(b) Fox baiting as suggested above is again recommended.

#### **Prescribed burning.**

##### **Areas scheduled for Spring prescribed burning.**

(a) Where the location of an active nest is known within the burn area there are at least two options;

- to exclude an area around the nest, approximately 200 meters radius, from the burn.
- to re-schedule the burn to autumn when the eggs will have hatched and the birds have vacated the nest. Every attempt should be made to achieve a mozaic burn even though this is a challenge in autumn. The birds should re-build the following spring in an unburnt patch or in nearby unburnt habitat.

(b) Where no active nests are known in the area but there are reliable recent (< 10 yrs.) records of mallee fowl *viz.* sightings of birds or observation of tracks within the area scheduled for burning..

- It should not be necessary to take any special precautions over and above ensuring that the burn is patchy, usually a normal requirement in Spring

### **Areas scheduled for Autumn prescribed burning.**

Any area with reliable records, nests, sightings or recent (<10 yrs.) tracks may be burnt in autumn provided every effort is made to achieve a mozaic of burnt and unburnt patches.

### **Fox baiting.**

Keeping foxes from nests during the egg laying and hatching season, especially in the first 2-3 years following a prescribed burn when the area is opened up, is the single most important factor to consider if we wish to ensure the continuation of the small isolated population(s) of mallee fowl in the southern forests. Mallee fowl start laying eggs in September and may continue to the end of December, the incubation period averages about 60 days, the young birds can fly within 24 hrs.

This makes the most critical period for fox predation the six months over Spring and Summer. This coincides with the period when foxes are at their most active when young animals are dispersing to find a 'territory' for themselves.

For these reasons it is critical that fox baiting is carried out regularly, every two months, over Spring and Summer for the first two to three years, depending on the rate of regeneration of the scrub, following burning. This should be the case also following wildfire in the mallee fowl habitat. It is recommended that baiting around the burn perimeter is done in a manner similar to that recommended for quokkas, baiting over the burn area could be done from the air.

### **Other Interesting facts.**

- Malleefowl were regularly hunted by European Australians during the nineteenth and early twentieth centuries for food.
- Each egg the female lays weighs 10 per cent of the female's body weight.
- After the female has laid the first egg the male bird maintains the nest mound and keeps its interior at a constant temperature of 33 degrees Centigrade using the inside of its mouth to test the temperature.



- Within 24 hours of hatching from the eggs, young can fly because, unlike their downy body, their wings are well feathered.

### **Selected References.**

Garnett S. 1992. The Action Plan for Australian Birds. Australian National Parks and Wildlife Service.

Priddel D., and Wheeler, R. 1995. The Biology and Management of the Malleefowl in NSW. NSW National Parks and Wildlife Service. Hurstville, NSW.

Blyth J., Burbidge A., Brown A. and Hooper K. 1996. Working Together. *LANDSCOPE* 11(3): 36.

### **Website links**

<http://www.malleefowl.com.au/Malleefowl.htm>

[http://www.calm.wa.gov.au/plants\\_animals/pdf\\_files/sp\\_malleefowl.pdf](http://www.calm.wa.gov.au/plants_animals/pdf_files/sp_malleefowl.pdf)

## **4 - Noisy Scrub-bird**

### **Species name.**

*Atrichornis clamosus.*

### **Size**

Length, male about 230mm Female about 200mm.

### **Subspecies**

No known subspecies.

### **Description**

For detailed description see Standard Texts.

### **Other Common Names**

Western Scrub-bird, Native name Jee-mul-uk.

### **Distribution**

At the time of European colonization in the 1800s the species was known from the Darling Range at Drakesbrook near Waroona, at Augusta and Boojidup near Karridale, the area between Mount Barker and Albany and at Torbay (see Burbidge *et al.* 1986).

The last specimen of a Noisy Scrub-bird was collected at Torbay in October 1889 by A. L. Campbell who also reported having heard the Scrub bird at Boojidup Creek in November of that year.

The species was rediscovered in 1961 at Two Peoples Bay Nature Reserve to the east of Albany (Webster 1962a)..

The species has also been re-introduced to Drakesbrook and introduced to Mt Manypeaks and near Walpole.

### **Habitat**

Noisy Scrub-birds appear to have been confined to the wetter areas within the jarrah/marri forests in and on the edges of swamps. The dense sedges and swamp vegetation provide breeding habitat and the birds forage in the deep litter along the forest edge.

### **Behavior and ecology**

The males are territorial, defending their territory by loud song throughout the year.

Territories range in size from 4 to 9 ha with a core area of 0.75 to 2.25 ha. Core areas are characterized by having dense understorey and a deep litter layer with abundant invertebrates i.e. good feeding areas. During the breeding season the males spend the day moving around his territory in an apparent random pattern. Roosting sites are at the tops of shrubs or small trees and may be used continuously for at least 3 months.

## **Diet**

Noisy Scrub-birds spend the majority of their time feeding on or near the ground, foraging in litter, dense shrubs and decaying wood. The most common items of diet include spiders, grasshoppers and crickets, cockroaches and other insects, they also eat millipedes and centipedes, earthworms and insect larvae (Smith and Calver 1984).

## **Breeding**

Nest building, egg laying and rearing of young is usually from June to October.

Nest building may commence in May, nests are usually constructed from sedges leaves and twigs and located about 20 cm above the ground in a dense sedge clump or a bush. The nest takes two to three weeks to build and the single egg is laid about two weeks later, incubation lasts about five weeks and the chick fledges three to four weeks after hatching. The birds appears to have only one brood in a season. The female tends to build her nest in the same area year after year.

## **Threatening Processes**

The Noisy scrub-bird has poor dispersal ability and its decline in numbers has been attributed to habitat destruction and an altered fire regime (Danks *et al* 1996, Danks 1998). The recovery in numbers at Two Peoples Bay has also been attributed to the exclusion of fire(Danks 1998).

However the length of time taken for Noisy scrub-birds to re-occupy habitat following fire is only 4-10 years (Smith 1985a,b). Introductions to Bald Island from 1994-1996 resulted in a rapid increase in numbers showing that the species is capable of rapid increase despite a clutch size of only one (Burbidge 2003). It appears therefore that it may not so much be fire per se that is the problem but the frequency and intensity of fire.

Because the birds are so restricted in distribution and their habitat so fragmented they are vulnerable to wildfire, especially large intense fires.

Clearing of habitat should no longer be a threat to the birds but feral cats and foxes may be a threat because of the birds habit of building their nests near ground level and the fact that they appear to have only one brood in a season.

## **Conservation Status**

- 2000 IUCN Red List of Threatened Species Endangered
- Environment Protection and Biodiversity Conservation Act Threatened (Endangered)
- Western Australian Conservation Act Schedule 1 species - fauna that is rare or is likely to become extinct. (Vulnerable).

## **Management in Western Australia**

The Noisy scrub-bird is managed under the Noisy scrub-bird Recovery Plan. DCLM , Western Australia Wildlife Management Program 12 (Danks *et al* 1996). The plan provides for a program of management primarily based on fire exclusion in the Two Peoples Bay reserve, the birds main area of

occurrence. There is also an active program of introductions and re-introductions to areas where the birds are known to have occurred in historical times.

## **Recommendations for Prescribed burning and timber harvesting**

### **Prescribed burning**

The Noisy Scrub-bird Recovery Plan, Danks et al 1996 recommends protection of Noisy Scrub-bird habitat from fire. There should be fire management plans for areas where Scrub-bird have been released. In the absence of any fire management plan it is recommended that one or more of the authors of the above Recovery Plan are contacted and asked for advice.

### **Timber Harvesting**

It would be hoped that Scrub-birds are not released into areas set aside for timber harvesting. In the event that birds from successful releases colonize a timber harvesting area it is again recommended that one or more of the authors of the Recovery Plan are contacted for advice.

### **Other interesting facts**

Scrub-birds are a small monogeneric family of song birds, the *Atrichornithidae*, whose closest relatives are the Lyre birds, *Menuridae*. The two families are considered to be among the last remaining members of an ancient, probably once more diverse radiation, of Australo-Papuan songbirds. The Noisy Scrub-bird was ranked the fourth most threatened bird species in Australia in 1992. In 1994 the total population was estimated at around 1100, at the time of its re-discovery in 1961 it is thought that there were only between 40-45 pairs of birds in existence.

### **Selected References**

- Burbidge , A.A., Folley, G.L. and Smith G.T.1986. The Noisy scrub-bird. Wildlife Management Program No 2 Department of Conservation and Land Management, Western Australia.
- Burbidge, A. H. 2003 Birds and fire in the Mediterranean climate of south-west Western Australia. In: Fire in ecosystems of south-west Western Australia: impacts and management. Ed. Ian Abbott and Neil Burrows. Backhuys Publishers, Leiden.
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- Danks, A. Burbidge. A.A., Burbidge A.H., and Smith G.T.1996 Noisy scrub-bird Recovery Plan.Department of Conservation and Land Management, Western Australia Wildlife Management Program 12.
- Smith, G.T. 1985. Fire effects on populations of the Noisy scrub-bird (*Atrichornis clamosus*), Western Bristle-bird (*Dasyornis longirostris*)and Western whipbird(*Psophodes nigrogularis*). In: Ford,J.R. (ed.), *Fire Ecology and Management in Western Australian Ecosystems*, pp.95-102. Western Australian Institute of Technology Environmental Studies Report, 14, Western Australian Institute of Technology, Perth.

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Smith, J.T. and Calver, M.C. (1984). The diet of the nestling Noisy scrub-bird *Atrichornis clamosus*. Australian Wildlife Research 11, 553-558.

Webster, H.O. (1962) Rediscovery of the Noisy scrub- bird *Atrichornis clamosus*. Western Australian Naturalist 8, 57-59.

### **Website links**

<http://birdingwa.iinet.net.au/articles/ar199701.htm>

## The *Geocrinia* Frogs

### 6 - White-bellied frog

### 7 - Orange-bellied frog

### 8 - Nornalup frog

#### Species Names

Nornalup frog, *Geocrinia lutea*.

Orange bellied frog, *Geocrinia vitellina*.

White-bellied frog, *Geocrinia alba*.

#### Size

All frogs are small, 25mm in size.

#### Subspecies

All three species of frog are members of the *Geocrinia rosea* frog complex (Anura; Myobatrachidae) a group of four allopatric species restricted to the lower south-west of Western Australia. The current distribution of these four species is consistent with an allopatric speciation model where subtle geographic barriers have led to their differentiation. Their recognition as distinct species within *Geocrinia* is justified on the grounds of distinct differences in ventral coloration, less obvious differences in male call and significant levels of genetic divergence.

#### Description

All four allopatric species lay eggs that undergo direct development, a derived character not found in other *Geocrinia* species or related genera. For a detailed description of each species see standard texts.

#### Other Common names

None.

#### Distribution

**Nornalup frog** - largely confined to within the area of distribution of Yellow Tingle on the lower reaches of and between, the Deep and the Walpole rivers, to the north of Walpole. There are two known occurrences outside this area, but in close proximity, on small tributaries of the Frankland river.

**Orange-bellied frog** - lower reaches of six creeklines which drain into the Blackwood river from the north. The largest population occurs at Spearwood creek, from just upstream of the Denny Road crossing to the Blackwood River. The remaining five populations occur in smaller nearby creek systems between Denny Road and the Blackwood River. The extent of the Orange-bellied frogs occurrence is 6.3 km<sup>2</sup> but its area of occupancy is only just over 0.2 km<sup>2</sup>.

**White-bellied frog** - known from a total of 54 sites on several small creek systems running eastward into the Blackwood River within the area between

just north of Davis Road and south to just north of the Brockman Highway. The majority of the sites are to the east of the Bussel Highway with the exception of 11 which occur to the west of the Highway within an area just to the south of Sebbes Road in the north and south to just south of Vlam Road. The extent of occurrence of the White-bellied frog is 101 km<sup>2</sup> and the extent of suitable habitat within this area has been estimated to be approximately 193 ha although not all of this area is occupied by the frog. Eighty two percent of the area of occupancy of the White-bellied frog is on private land.

### **Habitat**

**Nornalup frog** - Riparian habitat in karri, tingle and jarrah forest. Found in tunnels under streamside vegetation, or in and under rotting logs.

**Orange-bellied frog** - Riparian habitat in jarrah forest in broad U- shaped valleys, under-story plant species include *Acacia uliginosa*, *Agonis linearifolia*, *Astartea fascicularis*, *Boronia molloyae*, *Homalospermum firmum*, *Pseudoloxocarya grossa* and *Loxocarya sp.*

**White-bellied frog** - Valley sites in jarrah/marri forest. The land units in which they occur are characterized by broad U-shaped drainage depressions with swampy floors on Leeuwin Block granite or narrow V shaped valleys on laterized Perth Basin sediments.

### **Behavior and Ecology**

Males of all species call on land from small depressions in moist soil under litter and dense vegetation. The large genetic differences between populations of both the Orange and White-bellied frogs suggest that movement between populations may be very limited.

Little is known of the range of movement of the Nornalup frog.

### **Diet**

Little information is available.

### **Breeding**

Larvae of the Nornalup frog develop within the egg membranes and never enter the water.

The egg masses of both the Orange and White-bellied frogs are deposited in small depressions, the eggs hatch and the tadpoles develop in a jelly mass with no free swimming or feeding stage.

### **Threatening Processes**

These small frogs are particularly vulnerable because of their restricted range of occurrence and the limited area occupied by each of the populations of each species.

The Orange-bellied frog in particular occupies a very small area and whilst the Nornalup and White-bellied frogs are comparatively more widespread the vulnerability of the latter is increased by the fact that many populations are within farmland remnant streamside vegetation.

Permanent clearing, if allowed, obviously has the potential to have a major impact on all three species.

Fire has the potential to have long term impact on populations of each of the frogs, conversely if properly managed, fire also has the potential to contribute to the conservation of each of these frogs. The White-bellied frog is particularly vulnerable to fire where it occurs in remnant vegetation on farmland because of the extensive weed invasion that occurs on such sites following fire.

Feral pigs also are a real threat, especially for the Orange-bellied frog which has a very restricted area of occupancy. Pigs can damage and may totally destroy the under-story cover of the frogs.

## **Conservation Status**

### **Nornalup frog**

*Priority 4 Species* - (Adequately surveyed but could become threatened if circumstances change) - W. A. Wildlife Conservation (Specially Protected Fauna) Notice 2004.

### **Orange-bellied frog**

*Critically Endangered* - Commonwealth Endangered Species Protection Act.

*Rare or likely to become Extinct* - W. A. Wildlife Conservation (Specially Protected Fauna) Notice 2004.

### **White-bellied frog**

*Vulnerable* - Commonwealth Endangered Species Protection Act.

*Rare or likely to become Extinct* - W. A. Wildlife Conservation (Specially Protected Fauna) Notice 2004.

## **Management in Western Australia**

The Orange-bellied and White-bellied frogs are the subject of a Species Recovery Plan. (For details see 'Orange-bellied & White-bellied Frogs Recovery Plan' 1995).

## **Recommendations for prescribed burning**

### **Prescribed Burning**

Fire has the potential to be either a disaster or a conservation benefit to the frogs depending very largely on fire management policies and practices.

Populations of each species may be wiped out in severe wildfires occurring under extreme conditions if fuels are allowed to build up to high levels in and around the frogs habitat. Such fires could have major conservation implications for the Orange and White-bellied frogs because of the large inter-genetic differences between populations of both of these species. These differences mean that if any populations of frogs become extinct, unique genetic material will be lost.

It is not known if this is also the case for the Nornalup frog .



Fire in remnant vegetation frog habitat on farmland can encourage the invasion of grasses and other weed species.

The Orange and White-bellied frog Recovery Plan appears to be contradictory in its recommendations with respect to fire. Thus under **1.6.2 Habitat Protection** in the plan it is recommended that..... "Where possible, fire should be excluded from swamp habitat, *while surrounding land should include a variety of fire regimes*". It then goes on.... " Where prescribed burning is necessary *in the forest blocks surrounding the habitat of these frogs*, it should be carried out in early Spring using prescriptions that account for seasonal conditions and to lessen the likelihood of burning the microhabitats of these frogs" (my italics). It is not possible to include a variety of fire regimes in the land surrounding the frogs habitat if the time of burning is restricted only to early Spring.

Based on the fact that these frogs have survived to date a fairly frequent recent burning regime and an apparent frequent past burning regime (see Ward *et al* 2003), it seems likely that the frogs may be able to cope with a regime of fairly frequent fire.

It is recommended here that the surrounds be burnt in early Spring, as stated, at a frequency that is likely to give good fire protection to the swamp habitat of the frogs. The effect of this on the frogs should be monitored before and after burning using male calls as the indicator of frog numbers.

It would also be prudent to try burning a portion of the habitat inhabited by frogs in early Spring to see if this can be done without any lasting effect on the frog population. This may interrupt the frogs breeding for a year or two the frog habitat would be safer from wildfire under an early Spring burning regime on a short (5 to 6 year) rotation. If a short rotation burning regime should turn out not to have any detrimental impact on the frog population, the resulting conservation benefit would be considerable.

It is unclear if this recommendation is along the lines of what is intended under **3.1.3 Fire Management and Research**, it may be a little different in that the aim of the recommendations here is to discover as soon as possible if there is a better option to fire exclusion.

If the interpretation of the intent of the Recovery Plan is different to these recommendations then it will not be possible to try them unless changes are made to the Recovery Plan.

At the present time there is no Recovery Plan for the Nornalup frog. There is evidence of a decline in numbers following spring burning however the study only followed the population for two years after the burn so there is no record of what happened over the next few years (Driscoll and Roberts 1997 ).Other studies of frogs in the *Geocrinia* group suggest that they make a relatively quick recovery within 5 - 7 years following fire (Bamford and Roberts 2003). Also given past fire history, as stated above, it seems likely that the frogs will survive a regime of fairly frequent fire. It is therefore recommended that:

A trial burn in early Spring of a portion of the habitat with before and after monitoring of frog numbers either by males calling or pit trapping.

Leaving large contiguous areas of frog habitat unburnt for long periods should be avoided either within reserves or outside.

### **Other interesting facts**

### **Selected References**

Cogger H. 2000. Reptiles and Amphibians of Australia. Sixth Ed. Published by Reed New Holland.

Lamont B.B., Ward D.J., Eldridge J., Korczynskij D., Colangelo W. I., Fordham C., Clements E. AND Wittkuhn R. 2003. Believing the Balga: a new method for gauging the fire history of vegetation using grasstrees. In; Fire in ecosystems of south-west Western Australia: impacts and management. Ed. Abbott I. and Burrows N. Backhuys Publishers.

Wardell-Johnson J.D., Driscoll D. and Williams K. 1995. Orange-bellied & White-bellied Frogs Recovery Plan. Wildlife Management Program No 19 Department of Conservation and Land Management, Western Australia.

Driscoll D.A. and Roberts D. 1997. Impact of fuel-reduction burning on the frog *Geocrinia lutea* in southwest Western Australia. Australian Journal of Ecology. 22,334-339.

Bamford .M. J. and Roberts J.D. 2003. The impact of fire on frogs and reptiles in south-west Western Australia. In; Fire in ecosystems of south-west Western Australia: impacts and management. Ed. Abbott I. and Burrows N. Backhuys Publishers.

### **Website links**

<http://www.deh.gov.au/biodiversity/threatened/action/frogs/20.html>

<http://www.deh.gov.au/biodiversity/threatened/action/frogs/21.html>

[http://www.deh.gov.au/cgi-bin/sprat/public/publicspecies.pl?taxon\\_id=26181](http://www.deh.gov.au/cgi-bin/sprat/public/publicspecies.pl?taxon_id=26181)

[http://www.deh.gov.au/cgi-bin/sprat/public/publicspecies.pl?taxon\\_id=26172](http://www.deh.gov.au/cgi-bin/sprat/public/publicspecies.pl?taxon_id=26172)

## **9 - Sunset Frog**

### **Species Name**

*Spicospina flammocaerulea*.

### **Description and size**

Black or very dark grey above, with bright reddish-orange feet, patches below anus and margins (continuation of the ventral color) to jaws. Throat and anterior chest, undersides of hands and feet and cloacal glands bright orange, belly with small bright blue spots on a blackish ground. Skin above coarsely granular formed by numerous raised large glands, ventral surfaces smooth. Grossly enlarged parotid glands. Fingers and toes slender, without webbing, fringes or terminal discs. Size 35mm.

### **Subspecies**

Monotypic genus, no known Subspecies

### **Other Common names**

Nil

### **Distribution**

Known only from a very small area (approx. 300km<sup>2</sup>) northeast and east of Walpole Western Australia. [See map].

### **Habitat**

Peaty swamps on the southern acid-peaty flats in the southern karri region.

### **Behavior and Breeding Ecology**

Males call in late spring and summer, eggs laid singly; a presumably aquatic stage.

### **Diet**

Not known

### **Threatening Processes**

Land clearing, intense fire burning under very dry conditions may also destroy the peat habitat of the frogs.

### **Conservation Status**

W.A. - Listed as a Vulnerable Schedule 1 species - ( Fauna that is rare or is likely to become extinct).

### **Management in Western Australia**

The frog is currently managed under the Sunset Frog Recovery Plan. Wildlife Management Program No. 35, Department of Conservation and Land Management, Western Australia.

## **Recommendations for prescribed burning and Timber Harvesting**

### **Prescribed burning**

What is known of the effects of fire on this species was reported by Roberts *et al.* (1999). Over the last fifty or so years, the fire frequency has averaged between 5-8 years at most sites where the frog has been recorded. Counts of calling males have been observed both to peak and to stay much the same following fire. Calls have also been observed to remain consistent in the absence of fire.

The authors speculate that fire *per se* may not be a critical factor but the disturbance caused by intense fire may create microclimatic conditions, e.g. rises in water table or open conditions resulting in higher water temperatures that promote breeding in this species.

The information above, albeit incomplete, suggests that protection from fire is neither necessary and may not be desirable. Practical experience with fires in the peat habitats, such as that of the Sunset frog, has demonstrated that fires burning under dry conditions will ignite the peat and once ignited such fires are very difficult to put extinguish.

Experience further tells us that areas in the southern forests protected from fire, inevitably catch fire sooner or later from lightning or other ignition sources.

Given these facts it would seem prudent to continue a regime of relatively frequent burning in the frogs habitat. A regime of 5-8 year fire frequency has worked in the past, so it is suggested that fires within the frequency range of about 5-10 years should be the aim for the time being, until further research confirms this or proves otherwise. The observations of Roberts *et al* (1999) suggest that occasional burning of the very top layer of peat, resulting in small pockets of peat being burnt out and leaving small hollows that can fill with water, may benefit the frogs breeding. How frequently this should occur is difficult to tell in the absence of data on the rate of accumulation of peat, if it occurs too often it is possible that the peat will slowly disappear. It is also difficult to predict exactly the right conditions to achieve such burns, any miscalculation and a peat fire may be ignited that it is then difficult to extinguish..

To err on the side of caution it is suggested that fires should not be planned or lit under conditions that are so dry that there is any chance of the peat catching fire. It is also suggested that there is be no alternation between spring and autumn fires, as is generally recommended and that fires in Sunset frog habitat are planned and lit only in spring.

### **Timber Harvesting**

Sunset frog habitat is unlikely to occur within any timber harvesting coupes because commercial trees do not grow on these sites. Where a known frog site occurs adjacent to a timber harvesting coupe extra care should be taken not to cause any silt to enter the frogs swamp habitat. This means that any roadwork should be carried out with particular care, especially where this is "upstream" of frog habitat. New roads should where possible be located 'downstrea' of frog habitat, if this is not possible they should be a sufficient

distance from the habitat so as not to pose any problems with siltation following a heavy rain event.

When burning for regeneration the guidelines listed above with respect to fire, should be followed. If regeneration burning is planned to be carried out under dry soil conditions then it is essential that the frog swamp habitat is burned under moist soil conditions prior to harvesting commencing. Prior burning is necessary to protect against the possibility of the peat in the frogs swamp habitat catching fire in the event of an escape from the regeneration burn.

### **Other interesting facts**

This frog is the most recently discovered vertebrate species from the South-west forest area, being only described in 1997. It is also the most brightly colored of all the WA forest frogs.

### **Selected References**

- Burbidge, A. A. and Roberts, J. D. 2002. Sunset Frog Recovery Plan. Wildlife Program No.35, Department of Conservation and Land Management, Western Australia.
- Roberts, J. D., Horwitz, P., Wardell-Johnson, G., Maxon, L. R. and Mahony, M. J. 1997. Taxonomy, relationships and conservation of a new genus and species of myobatrachid frog from the high rainfall region of south western Australia. *Copeia*, 1997(2):373-381 (*Spicospina flammocaerulea*).
- Roberts, J.D. 1998. Distribution and status of the sunset frog *Spicospina flammocaerulea*: final report submitted to CALM for contract between CALM and Environment Australia's Forest Biodiversity, Regional Projects Program. pp. 1-15.
- Roberts, J. D., Conroy, S. and Williams K. 1999. Conservation status of frogs in Western Australia. In; Campbell, A. (ED.), *Declines and Disappearances of Australian Frogs*, pp.177-184. Environment Australia, Canberra.

### **Website links**

[http://www.deh.gov.au/cgi-bin/sprat/public/publicspecies.pl?taxon\\_id=64782](http://www.deh.gov.au/cgi-bin/sprat/public/publicspecies.pl?taxon_id=64782)  
<http://www.deh.gov.au/biodiversity/threatened/action/frogs/19.html>  
<http://www.westernwildlife.com.au/frogs/sunset.htm>  
<http://frogsaustralia.net.au/frogs/display.cfm?method=search&state=wa>

## 10 - Swamp and Lake birds.

A total of seven species of water birds and two passerines (perching birds or song-birds) have been identified as needing to be taken into account when planning prescribed burning operations. These nine species have been selected because they are all species that live in a habitat that is of restricted distribution in the south-west forested area, namely freshwater lakes and swamps with reeds and rushes.

The birds in this category comprise a varied group of birds with varied habits and biology but they all share a habitat that can be affected by fire temporarily or permanently depending on the type of fire. For this reason these nine birds are treated as a group to simplify their management.

### Species Name and Status

Australasian Bittern *Botaurus poiciloptilus* (freshwater swamps) –  
Schedule 1, Div 2

Little Bittern *Ixobrychus minutus* (freshwater swamps) - Priority 4

Dusky Moorhen *Gallinula tenebrosa* (fresh water)

Blue-billed duck *Oxyura australis* (freshwater swamps)

Freckled duck *Stricktonetta naevosa* (prefers fresh water)

Musk duck *Biziura lobata* (prefers fresh water)

Clamorous Reed-Warbler *Acrocephalus stentoreus* (freshwater reed beds)

Purple Swamphen *Porphyrio porphyrio* (sometime saline)

Little Grassbird *Megalurus gramineus* (also salt marshes)

### Size

See Standard Texts for size measurements of each species.

### Weight

See Standard Texts for details on each species.

### Subspecies.

**Australasian bittern** - Monotypic.

**Little bittern** - Nominate *minutus*, Europe, Mediterranean, W.Siberia, Middle East to Kashmir; *payesii*, Africa S. of Sahara; *podiceps*, Madegascar; *dubius*, Australia, S. New Guinea.

**Dusky moorhen** - Nominate *tenebrosa* Aust.; *frontata*, throughout Indonesia and perhaps New Guinea: *neumanni*, n. Irian Jaya.

**Blue-billed duck** - Monotypic.

**Freckled duck** - Monotypic.

**Musk duck** - Monotypic.

**Purple Swamphen** - Extralimital: nominate *porphyrio*, and about 14 other sub-species have been described; *melanotus*, Australia except in SW parts, and NZ; *bellus*, SW Australia.

**Clamorous Reed-Warbler** - widespread through Asia, Africa and Australia and over 15 races are recognized; one, *australis*, in Australia.

**Little Grassbird** - SW and SE Australia and Tasmania, also recorded in New Guinea where it may be a vagrant from Australia. There are three recognized races in Australia; SW, *thomasi*, SE, *goulburni* and Tasmania, *gramineus*.

### **Description**

See Standard Texts for details on each species..

### **Other Common names**

See Standard Texts.

### **Distribution and habitat.**

#### **The Listed species.**

**Australasian bittern** - SE and SW Australia, Tasmania and New Zealand.

Outside of Aust. and NZ: New Caledonia, Loyalty Island.

The south-west population of the Australasian bittern is believed to be < than 100 pairs and the species is a listed Schedule 1 species (rare and likely to become extinct). It most likely only occurs on the west coastal plain (Busselton to Lancelin) and locally in high-rainfall areas of the south coast to east of Albany (Jaensch *et al* 1988).

The Australian bittern favours permanent fresh-water wetlands with still shallow water and dense vegetation. In the south-west it is probably sedentary in permanent habitat, it prefers beds of tall rush mixed with or near short fine sedge or open pools (Jaensch 1982), it depends for breeding on deep freshwater swamps and there seems to be no seasonal movements, (Jaensch *et al* 1988).

**Little bittern** - Australia; vagrant to NZ.

Outside of Aust. and NZ: Few records from New Guinea; Eurasia through North Pakistan and India; Africa south of the Sahara; Madagascar.

The Little bittern is listed as Priority 1 on CALM's Priority list of species for the South Coast, South West, Swan and Warren regions. In the south-west the species may be found in suitable habitat SW of a line from 100km north of Perth to about Hopetoun and near Esperance. The species is thought to be migratory. It occurs in terrestrial wetlands occasionally estuarine and littoral habitats. Mainly in dense emergent vegetation in fresh water swamps, lakes and watercourses particularly in beds of tall sedges, reeds and rushes. It may avoid beds of *Phragmites* that are very thickly choked with dead matter (R.P Jaensch).

#### **The Unlisted species.**

With the exception of the Freckled duck, the remaining five water birds are all widespread and relatively common in the south-west as well as in eastern Australia (see Serventy and Whittell 1976, Aust. Atlas. and Jaensch *et al* 1988 and others, see also HANZAB-Handbook of Australian, New Zealand and Antarctic birds). The Freckled duck is one of our rarer water birds and is

uncommon in the south-west. All five species inhabit terrestrial wetlands and with the exemption of the Blue-billed and Freckled ducks may also occur on brackish coastal wetlands.

The Clamorous Reed-Warbler is widely distributed in freshwater swamps throughout Australia, it also occurs in New Guinea and Indonesia to southern Asia and northeastern Africa. Over 15 races are recognized, one only in Australia. The Australian bird occurs in suitable reed beds in fresh water swamps throughout the south west, the Little Grassbird is likewise distributed not only in fresh water swamps but also in rushes and samphires on the margins of coastal estuaries (Serventy and Whittell 1976).

### **Behavior and Ecology**

No particular characteristics of any of the species, not covered already under any of the other headings, are considered to be of significance to the species fire management. If further information is needed for any reason consult Standard Texts especially HANZAB.

### **Movements**

Many water birds in Australia are partly migratory, their movements being governed by the formation and drying up of rainfall initiated seasonal swamps and lakes. Because of the higher and more regular rainfall, water birds in the southwest are perhaps less affected by seasonality than their inland cousins.

The Australasian bittern appears to be sedentary, there are no records of seasonal movements of this species in the southwest. The Little bittern may be partly migratory but it could be sedentary on permanent waters. The Freckled duck and the Musk duck appear to be sedentary in wet years and on permanent waters but may move in dry years. The other water birds appear to display regular seasonal movements as does the Clamorous Reed Warbler. The Little Grassbird is largely sedentary in the southwest..

### **Diet**

See Standard Texts for details on each species.

### **Breeding**

The breeding season is not well known for some of these species, not surprisingly it is the rarer ones that are least well known. Thus in the southwest the Australasian bittern is thought to breed between October to December, the Little bittern between October to January and the Freckled duck between October to December. The rest of the water birds all breed between June/July to December.

The Clamorous Reed Warbler breeds from September to February in the southwest and the Little Grassbird between August/ September to January.

Essentially the water birds are Winter/Spring breeders and the two passerines largely Spring/early Summer breeders.

The seven water birds as well as the two passerines all nest either in beds of reeds and rushes or in low *Melaleuca* or similar, close to, or over permanent water or seasonally flooded areas.



## **Threatening Processes**

The southwest of Western Australia was never well endowed with lakes and swamps and many have been lost permanently to clearing for agriculture and urban development. The greatest threat to the swamp and lake bird species identified here still remains permanent destruction of their swamp and lake habitat. This still occurs in a number of ways:

- salinization of reserved habitat primarily in farming areas;
- draining or isolation as a result of urban development;
- drying of some wetlands as a result of the greenhouse effect; and
- inundation by water supply dams. Water supply dams are seldom make good habitat for most species of water birds because fluctuating water levels do not allow the development of marsh habitat.

A consequence of the permanent loss of many of our wetlands is that any temporary disturbance of the remaining wetland habitat may pose a more serious threat to wetland birds now than it might have been in the past. Thus for example drought and wildfire in earlier times would have had much less of an impact than they can have today. When there were more wetlands the temporary drying up of a portion of them or the temporary loss of a few wetland habitats from wildfire would not have posed the threat to wetland birds that these events may do now.

In addition the greenhouse effect could result in the drying up of some marginal wetlands over summer again resulting in fire posing a more serious threat than in the past. Thus fires burning under dry conditions may destroy peat that has taken thousands of years to accumulate.

## **Conservation Status**

The Australasian bittern is currently listed as a Schedule 1 (Fauna that is rare or likely to become extinct), Division 2, Vulnerable species and the Little bittern is a CALM "Priority 4" species (Taxa in need of monitoring)

## **Management in Western Australia**

### **Recommendations for prescribed burning**

The objectives when planning prescribed burning should be to preserve in perpetuity the swamp and wetland habitat of the birds that depend on them.

Proposed prescribed burns should all be checked against the 'swamps and wetlands containing peat map' that has been prepared for this purpose. Distribution maps are available for the two listed species, the Australasian bittern and the Little bittern, these should also be checked during the early planning stages for the possible presence of these species within the planned prescribed burn area.

### **Known Bittern swamps**

Recommendations where there are records of either of the listed bitterns from swamps or wetlands within the burn area;

- burns around swamps in which either species of bittern have been recorded should never be conducted under conditions conducive to the ignition and burning of the peat foundation of the reed-bed habitat;
- burns around swamps in which the bitterns have been recorded should not normally be conducted under conditions that are likely to result in the ignition and burning of the reed beds - that is, resulting in the burning of the reed-beds above the water line as opposed to the above situation where the swamp is dry and the peat burns along with the reeds; and
- in certain circumstances it could be desirable to burn the reed habitat for management purposes - viz. it has been observed that the Little bittern may avoid reed-beds that are very thickly choked with dead matter (Jaensch 1983) and it may be decided that a portion of the reed-habitat could benefit from burning under suitable conditions.

### **Swamps and wetlands with any form of peat**

Recommendations in cases where swamps and/or wetlands (other than the above), containing any form of peat are present within the burn:

- burns around mapped swamps and wetlands should never be conducted under conditions conducive to the ignition and burning of the peat foundation of the habitat;
- burns around swamps should not normally be conducted under conditions that are likely to result in the ignition and burning of the reed beds. That is, resulting in the burning of the reed-beds above the water line as opposed to the above situation where the swamp is dry and the peat burns along with the reeds;

(However it may not always be necessary to strictly enforce this condition, The birds involved are all widespread and fairly common and should be able to cope with temporary disturbance of a portion of their habitat . Thus if it is necessary for other reasons to conduct the burn during drier conditions, autumn or summer, that will favour ignition and burning of the wetlands or swamps, this could be considered under certain circumstances. For example where there are mapped swamps and wetlands in the vicinity, including within the proposed burn area, that can remain unburnt at least until the next rotation burn.)

- in certain circumstances it could be desirable to burn the swamp and/or wetland habitat for management purposes. Viz. it may be decided that a portion of the swamp/wetland habitat could benefit from burning under suitable conditions in order to regenerate the habitat.

### **Other interesting facts**

#### **Selected References.**

Australian Bird Atlas.

HANZAB - Handbook of Australian, New Zealand and Antarctic birds.

Jaensch, R. 1983 West. Aust. Bird Notes. 28:7-9.

Jaensch R. 1982. WA Bird Notes 23:3-8.

Jaensch, R.P., R.M. Vervest & M.J. Hewish 1988. RAOU Rep.30.

Serventy, D.L. & H.M. Whittell. 1976. Birds of Western Australia.

**Website links**

<http://www.deh.gov.au/biodiversity/threatened/action/birds2000/>

<http://www.deh.gov.au/biodiversity/threatened/action/birds2000/pubs/austr-bittern.pdf>

<http://www.deh.gov.au/biodiversity/threatened/action/birds2000/pubs/little-bittern.pdf>

## 11 - Birds of Watercourses with reeds and rushes.

These are species that live and nest in dense reed and rush beds or nest in trees overhanging watercourses, rivers, estuaries or inlets. All of them may also occur in similar wetlands to the birds in category 2 viz. lakes and swamps and the Spotless Crake and Buff-banded Rail may also use dams and ponds.

A total of four species of water birds have been identified as needing to be taken into account when planning prescribed burning operations. These four species have been selected because they are species that live in a habitat that is of comparatively restricted distribution in the south-west forested area, namely dense reed and rush beds or they nest in trees overhanging watercourses, rivers, estuaries or inlets.

The birds in this category comprise a fairly varied group of birds with varied habits and biology but they all share a habitat that can be affected by fire temporarily or permanently depending on the type of fire. For this reason these nine birds are treated as a group to simplify their management.

### Species Name and Status

Black Bittern *Ixobrychus flavicollis* (forested fresh rivers and inlets) - P 2

Spotless Crake *Porzana tabuensis* (freshwater swamps/water channels)

Buff-banded Rail *Gallirallus philippensis* (freshwater channels and mangroves)

Rufous Night Heron *Nycticorax caledonicus* (fresh and brackish watercourses)

### Size

See Standard Texts for information on this for each species.

### Weight

See Standard Texts for weights of each species.

### Subspecies

**Black bittern** - Nominate *flavicollis* Indian subcontinent, se. Asia and n. Indonesia; *australis* Moluccas, Kai and Aru Is, New Guinea, Bismark Arch., Aust.; *woodfordi* Solomon Is.

**Spotless Crake** - Nominate *tabuensis* Aust., NZ, Chatham Is, Philippines, Polynesia, New Caledonia and islands of sw. Pacific; two other subspecies extraliminally.

**Buff-banded Rail** - Nominate *philippensis* and at least 10 other subspecies have been described extraliminally in Philippines, Indonesia New Guinea and other islands in the region; *mellori* Aust. and Tasmania; *tounelieri* Coral Sea and Great Barrier Reef; *assimilis* NZ; *macquariensis* Macquarie Is; *andrewsi* Cocos Keeling Is.

**Rufous Night Heron** - Nominate *caledonicus* - New Caledonia; *manillensis* w. Indonesia and Philippines; *hilli* Wallacea, New Guinea and Aust.; *pelewensis* Palau and Caroline Is.; *mandibularis* Bismark Arch. and Solomon Is.

## Description

See Standard Texts for this information.

## Other Common names

See Standard Texts for information on this.

## Distribution and Habitat

### Listed Species

**Black bittern** - in the south-west this bittern is pre-eminently an inhabitant of the wooded banks of rivers. Usually found in permanent wetlands fringed by dense vegetation, and estuaries and tidal reaches of rivers. Most records are pre 1950 from swamps and lakes on the Swan coastal plain, no post-1950 breeding records are known.

### Unlisted Species

**Spotless Crake** - commonest crake in the south-west but it is shy and retiring and is rarely seen. Occurs in freshwater swamps, only crake normally occurring in acidic (pH <6), fresh (<0.3 ppt), heavily vegetated swamps (R.P. Jaensch). Usually breeds in unbroken stands of dense, tall, emergents such as reeds, rushes, sedges and stands of dense shrubs e.g. *Melaleuca* growing near swamps, creeks or dams.

**Buff-banded Rail** - Widely distributed in coastal, subcoastal and riverine areas but it has a wandering habit and is generally uncommon in the south-west. Occurs in permanent and ephemeral, fresh and saline, terrestrial, estuarine and littoral wetlands, swamps, lakes, coastal lagoons, rivers and creeks, pools and temporarily inundated areas, saltmarshes and tidal mudflats and artificial wetlands.

**Rufous Night Heron** - widespread but uncommon in the south-west. Littoral and estuarine habitats and terrestrial wetlands, nocturnal, daytime roosts in dense cover in leafy trees close to or away from water, in reeds or other waterside vegetation.

## Behavior and Ecology

No particular characteristics of any of the species, not covered already under any of the other headings, are considered to be of significance to the species fire management. If further information is needed for any reason consult Standard Texts especially HANZAB.

## Movements

Many water birds in Australia are partly migratory, their movements being governed by the formation and drying up of rainfall initiated seasonal swamps and lakes. Because of the higher and more regular rainfall, water birds in the southwest are perhaps less affected by seasonality than their inland cousins.

The movements of all four species are little known or poorly understood. The Black bittern is almost certainly sedentary in the sw. and the Spotless Crake may also be though it is difficult to know as it is a secretive bird which is seldom seen. The Buff-banded Rail appears to be resident and dispersive but

possibly migratory and the Rufous Night Heron is considered nomadic but possibly sedentary in favourable habitat.

### **Diet**

For details of each species diet see Standard Texts.

### **Breeding**

Breeding details of the Black Bittern, Buff-banded Rail and Rufous Night Heron are poorly known, only those of the Spotless Crake's are well known.

In the SW the Black bittern breeds from Oct. to Nov., nesting is solitary in riparian trees.

The Spotless Crake breeds from early Nov. to mid Dec., nesting in tall sedges, shrubs or similar usually over water or near the water's edge.

The Buff-banded Rail usually nests in Aug./Sept. in long grass, reeds or sedges, on the ground usually near water or on mounds in water, it may have up to 3 broods a year and extend breeding into summer.

The Rufous Night Heron is a colonial breeder, sometimes breeding in large numbers, on its own or in the company of other species of herons, cormorants, ibises and spoonbills. Birds may occasionally breed in pairs on their own. Nesting in tree canopies or on top of shrubs, it breeds mainly from Aug to Dec. but breeding may extend to March depending on rainfall.

### **Threatening Processes**

In Western Australia all of the species with the exemption of the Rufous Night Heron, which also occurs in the north, are almost entirely confined to the high rainfall southwest.

All of the species are associated with water courses usually lined with reeds and rushes.

### **Conservation Status**

The Black bittern is currently listed on the CALM 'Priority species list 'as a priority 2 species- taxa with few, poorly known populations on conservation lands.

None of the other three species are listed.

### **Management in Western Australia**

#### **Recommendations for prescribed burning**

The birds in this group are particularly difficult to prescribe for with respect to prescribed burning because they may utilize a wide range of moist habitats from swamps lakes and estuaries to riverine habitat. To make it more difficult the riverine habitat of none of the four species is well known or described in any detail. The four species in this group were separated because they are also known to utilize a variety of riverine habitats and so are slightly different in their requirements.

### **Known Black Bittern swamps and wetlands**

Recommendations where there is a recent record of the listed Black bittern from swamps or wetlands within the burn area;

- burns around swamps in which the Black bittern has been recorded should never be conducted under conditions conducive to the ignition and burning of the peat foundation of the reed-bed habitat;
- burns around swamps in which the bittern has been recorded should not normally be conducted under conditions that are likely to result in the ignition and burning of the reed beds. That is, resulting in the burning of the reed-beds above the water line as opposed to the above situation where the swamp is dry and the peat burns along with the reeds; and
- in certain circumstances it could be desirable to burn the reed habitat for management purposes it may be decided that a portion of the reed-habitat could benefit from burning under suitable conditions.

### **Known Black Bittern riverine habitats**

Recommendations where there is a recent record of the listed Black bittern from riverine habitat within the burn area.

Were the black bittern more widespread and common, there would be no need for any special prescriptions because the general prescriptions for prescribed burning would adequately cater for the species requirements. The practice of alternating fires over spring and autumn would ensure that the habitat was both protected and regenerated in a sequence that allowed the bitterns to move and return again following regeneration of their habitat.

However, because the Black bittern is so rare, burning the entire riverine habitat where they have been recorded may endanger the population because there may be nowhere else for them to go whilst their habitat regenerates:

- consideration should be given to protecting a portion of the known area of riverine habitat from disturbance by fire so as to leave the bitterns a place to live until the burnt portion of the habitat recovers to a stage suitable for re-colonization. Re-colonization will likely occur well within the period before the next burn by which time the remaining habitat may be considered for burning; and
- there is the option of not burning the riverine habitat at all, for example by always burning the surrounds in early spring. If this option is taken the risk of severe disturbance to the bittern population, which is likely to be at most a few pairs, may be high depending on other measures taken for fire protection of the surrounds.

### **Known nesting colony of Rufous Night Herons**

Recommendations where there are recent records of a nesting colony of Rufous Night Herons.

Breeding colonies of Rufous Night Herons are usually well known by local bird-watchers and enthusiasts and should be recorded by CALM Wildlife

section. Such colonies are uncommon and obviously very important and the area needs to be protected from fire in whatever way possible.

### **Swamps and wetlands containing any form of peat**

Recommendations for swamps and/or wetlands containing any form of peat and with no recent records of listed species.

- burns around mapped swamps and wetlands should never be conducted under conditions conducive to the ignition and burning of the peat foundation of the habitat;
- burns around swamps should not normally be conducted under conditions that are likely to result in the ignition and burning of the reed beds. That is, resulting in the burning of the reed-beds above the water line as opposed to the above situation where the swamp is dry and the peat burns along with the reeds;

(However it may not always be necessary to strictly enforce this condition, The birds involved are all widespread and fairly common and should be able to cope with temporary disturbance of a portion of their habitat . Thus if it is necessary for other reasons to conduct the burn during drier conditions, autumn or summer, that will favour ignition and burning of the wetlands or swamps, this could be considered under certain circumstances. For example where there are mapped swamps and wetlands in the vicinity, including within the proposed burn area, that can remain unburnt at least until the next rotation burn.)

- in certain circumstances it could be desirable to burn the swamp and/or wetland habitat for management purposes. Viz. it may be decided that a portion of the swamp/wetland habitat could benefit from burning under suitable conditions in order to regenerate the habitat.

### **Riverine habitat areas**

Recommendations for riverine habitat areas occurring within a prescribed burn area:

Some form of riverine habitat is likely to occur in almost any prescribed burn with the exemption of a few very small burns or burns on some coastal limestone areas. As a consequence of this it is not considered practical to formulate any general prescriptions that are likely to assist any of the four species involved.

Specific prescriptions have already been suggested above for the rare Black bittern. The other three species are all widespread and comparatively common and are considered to be well catered for already by the planned burning rotation based on broader considerations such as plant life history, geographic and other factors.



### **Selected References**

Australian Bird Atlas.

HANZAB - Handbook of Australian, New Zealand and Antarctic birds.

Jaensch, R. 1983 West. Aust. Bird Notes. 28:7-9.

Jaensch R. 1982. WA Bird Notes 23:3-8.

Jaensch, R.P., R.M. Vervest & M.J. Hewish 1988. RAOU Rep.30.

Serventy, D.L. & H.M. Whittell. 1976. Birds of Western Australia

### **Website links**

<http://www.deh.gov.au/biodiversity/threatened/action/birds2000/>

<http://www.deh.gov.au/biodiversity/threatened/action/birds2000/cont.html>

<http://www.deh.gov.au/biodiversity/threatened/action/birds2000/pubs/black-bittern.pdf>

**Appendix 8 - Fauna habitats to be taken into account when planning for prescribed burning.**

**Fauna Habitats which may be influenced by certain Fire Regimes.**

These are habitats that can be altered by fire more or less permanently depending on frequency, season and intensity of burning. Due to changes to 'natural' fire regimes and the distribution and abundance of species of fauna, habitats that may be influenced by certain fire regimes, can under certain circumstances have an influence on fauna populations and communities. In some instances e.g. the tammar thickets, the fire regime may be critical to the long term survival of the species, in this case the tammar. In other instances e.g. the tuart or the coastal peppermint woodlands, the habitat and hence the animal communities may be altered for a period of decades or even a century or more but the changes may not be critical to the long term survival of any species. To determine whether or not such changes to populations and communities be considered 'good, bad or acceptable' is not one of the objectives of this listing of fire habitats. Statements made here merely seek to point out where change may be expected in the absence of management, no judgment is made.

**1. Restricted habitats that require protection from fire** - these are habitats that may contain nesting sites of rare and threatened species such as bitterns whose breeding could be disrupted for a time if the swamps are burned under dry conditions. Because these habitats are so small and restricted in area the chances of them being burnt in an unplanned burn is minimal provided the surrounds are fuel reduced on a fairly regular basis. The nature of the swamps together with their occurrence in forest or woodland means that a moisture differential exists between the swamps and their surrounds. This factor may be utilized to prescribe burn the surrounds regularly, under conditions that do not ignite the swamp habitat, and thus provides a fuel reduced protection buffer for the swamps.

<b>Habitat</b>	<b>Threatening factor</b>	<b>Comments</b>
a/ Reed beds surrounding swamps and lakes	Summer/Autumn Wildfire	Reeds may burn - certain restricted birds may be affected unless burning is planned on a landscape scale. - Protect from wildfire - no burning of surrounds in very dry years

**2. Restricted habitats that require burning on short rotation under conditions that will not ignite accumulated/accumulating organic material.**- these are habitats that may be partially or completely destroyed by fire burning under dry conditions, namely peat swamps. Because peat swamps occur in flammable habitats and are themselves covered in flammable vegetation, they cannot readily be protected from fire by fuel reducing the surrounds. Peat swamps are therefore best protected from unplanned fire events occurring under dry conditions by burning the swamps and their surrounds in spring under moist conditions such that the vegetation cover, but not the peat, is burned.

<b>Habitat</b>	<b>Threatening factor</b>	<b>Comments</b>
a/ Peat Swamps	Summer/Autumn Wildfire	Peat may be destroyed - recovery time is extremely long, >1000yrs. - Protect by burning in spring - where the Sunset frog is present check species profile for appropriate regime

**3. Restricted habitats that require protection using a planned mozaic of spring and autumn prescribed fire.** - These are comparatively widely distributed habitats, inhabited by species that require the habitat to be in a specific stage of succession for it to be suitable for them to inhabit. These species, once more widespread, are now of restricted occurrence and have threatened species status. Because of their status and requirement for their habitat to be in specific stages of development, the habitats of these species requires management to ensure that there is sufficient useable habitat, suitably distributed, available on a continuing basis. This may require defining the habitats and planning suitable prescribed fire rotations to ensure continued regeneration of these habitats in different seral stages.

Habitat	Threatening factor	Comments
a/ 'Quokka' swamps and other 'riverine forest	Summer/Autumn Wildfire	Fire needs to be planned in mozaic with two or three spring burns between each summer/autumn burn to ensure that suitable habitat is always available to Quokkas for a reasonable length of time.
b/ 'Tammar' thickets - Melaleuca, Heartleaf and Allocasuarina sp.	Spring fires only in rotation.	A continuing regime of spring fires may ultimately eliminate these thickets. - Burning under dry conditions on a 20-40 year rotation is necessary to maintain thickets in suitable condition for tammar
c/ 'Noisy Scrub bird' thickets	Unplanned fire	Suitable fire rotation needs to be planned where Noisy Scrub birds have been released.

**4. Habitats in which the dominant or keystone species require a minimum burn interval for successful regeneration.** - These are habitats that contain species of plants that reproduce from seed only {seeders} which are of critical importance to a range of animals for food and shelter. Prescribed burning needs to be planned so that these communities are burnt in rotation in a manner that caters for their special requirements.

Habitat	Threatening factor	Comments
a/ . Banksia quercifolia & B. occidentalis thickets	Unplanned fire.	Fire too frequent to allow these species to re-seed may result in local depletion of these thickets which could be detrimental to the Honey possum and nectar feeding birds - Burning regime must allow time for plants to reach maturity and to set sufficient seed to regenerate successfully.

**5. Habitats that require short to medium term rotational prescribed burning for their continued maintenance.** - These are habitats that are widespread and fairly common but they all are dominated by an emergent overstorey of species that may be killed by intense fire under dry conditions. Following such fires the habitat may or may not return to its pre-fire condition depending on a number of factors. Even where the habitat does return to its pre-fire condition, because of the longevity of the dominant tree species, the time frame will be in decades and in instances may be 100 years or more. A wide range of fauna are affected, but no particular species is likely to be endangered in the long term. However the species composition and abundance of the affected habitat will alter for a time, possibly a long time in certain instances. It is also possible that in some instances the habitat may be altered in the longer term and fauna likewise. In cases where the habitat has become isolated because of land use changes it is also possible that changes to fauna communities may be permanent due to the inability of some fauna to re-colonize the area across farmland or other inhospitable habitat. These habitats require management with fire to ensure the maintenance of the mature habitat and a continuing replacement by adequate and well distributed regeneration

<b>Habitat</b>	<b>Threatening factor</b>	<b>Comments</b>
a/ Wandoo woodland	Intense wildfire	Wildfire may kill mature wandoo trees these will take a long time to replace and the fauna will be affected for a long time Manage using planned prescribed fire
b/ Tuart forest and woodland.	Intense wildfire.	Wildfire in tuart forest/woodland may kill mature Tuart and alter the habitat for a prolonged period of time. WA peppermint is a dominant understorey over much of the tuart forest and where the tuart trees are killed by wildfire there is a danger that the peppermint may take over Manage using planned prescribed fire
c/ Yate woodland	Intense wildfire.	Intense wildfire may kill yate trees and alter the habitat for a long period of time. Manage using planned prescribed fire.
d/ WA peppermint coastal woodland	Intense wildfire.	Wildfire may reduce mature peppermint forest/woodland to coppice woodland that will take a long time to recover. Manage using planned prescribed fire
e/ Coastal Banksia woodlands on sandy soils - Banksia attenuata, B.seminuda B. ilicifolia.	Intense wildfire	Fire in mature woodlands may kill trees, replacement will take a long time. Exotic weed species may invade if the area is close to cleared farmland. This reduces fauna diversity Manage using planned prescribed fire

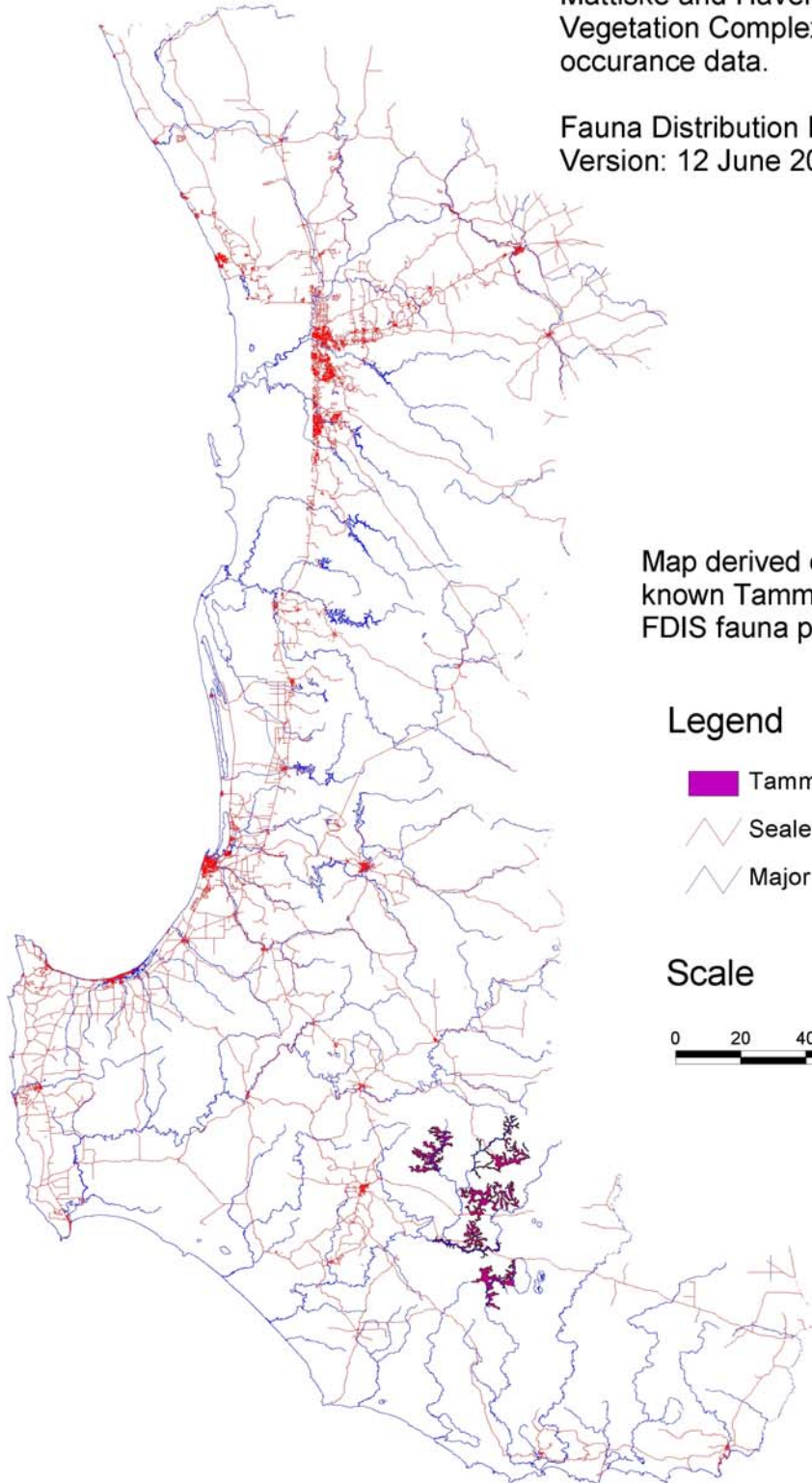
## Mapping the Fauna Fire Habitats

1. Peat swamps will be difficult to map - Can we identify RFA Vegetation Complexes that are known to contain peat deposits, do these need ground truthing?  
Peat swamps with Sunset frogs are known.
2. Reed beds - These are 'proper' reeds and rushes growing in water for most or all of the of the year, Are these mapped? Maybe we can use the old API maps?
- 3 Quokka swamps - It should be possible to map known quokka swamps, most of these may already be located on Paul de Torres maps.
4. Coastal woodlands on sandy soils - The RFA Vegetation Complexes that are prone to weed invasion need to be identified. Discussion is needed to decide what if anything can be done about the problem of weeds, especially grasses, and the way in which these are encouraged by fire. It may not be practical to do anything.
5. Coastal Tuart - The relevant RFA Vegetation Complexes need to be identified.
6. WA Pepermint coastal woodlands - The relevant RFA Vegetation Complexes need to be identified.
7. Wandoo - wandoo woodlands are already mapped on the RFA maps
8. Tammar thickets may have to be mapped from local knowledge of known 'tammar' thickets
9. Noisy Scrub bird thickets - Releases of noisy scrub birds in forest areas are mapped and there should be no problems.
10. Banksia quercifolia and B. occidentals thickets - It may be possible to identify the relevant RFA Vegetation Complexes which contain these thickets but they may have to be ground-truthed.

# Potential Occurrences - Tammar




Based on FDIS polygons derived from Matiske and Havel (1999) Pre 1750 Vegetation Complexes and CALM occurrence data.

Fauna Distribution Information System (FDIS)  
Version: 12 June 2005



Map derived directly by intersecting known Tammar Population records with FDIS fauna polygons.

## Legend

-  Tammar distribution
-  Sealed Roads
-  Major Rivers

## Scale

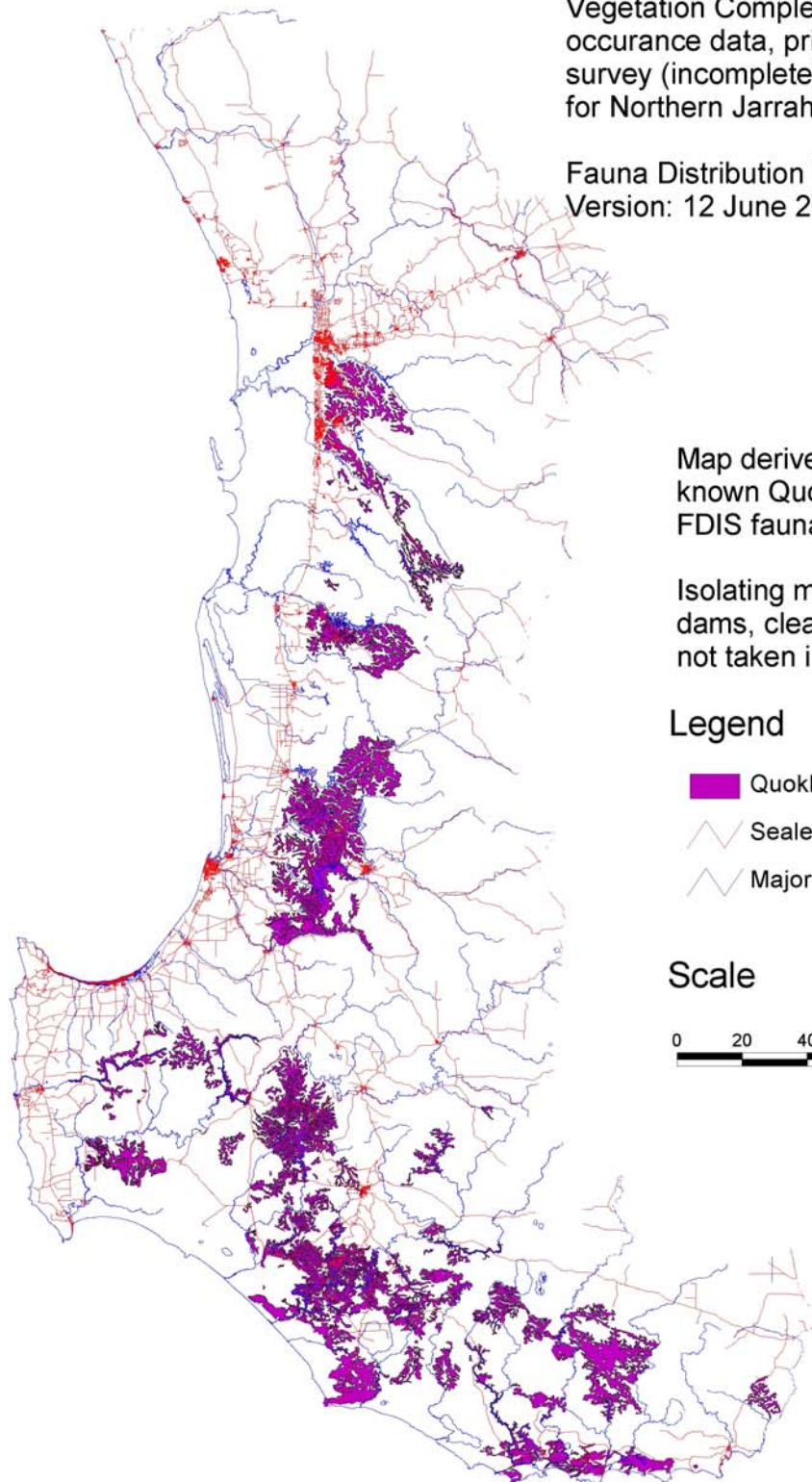
0 20 40 60 80 100 Kilometers



# Potential Occurrences - Quokka

Based on FDIS polygons derived from Mattiske and Havel (1999) Pre 1750 Vegetation Complexes and CALM occurrence data, primarily ex Liddelow survey (incomplete) plus older records for Northern Jarrah populations.




Fauna Distribution Information System (FDIS)  
Version: 12 June 2005



Map derived directly by intersecting known Quokka Populations with FDIS fauna polygons.

Isolating mechanisms (water supply dams, cleared agricultural land) are not taken into account with this map.

## Legend

-  Quokka habitat distribution
-  Sealed Roads
-  Major Rivers

## Scale

0 20 40 60 80 100 Kilometers

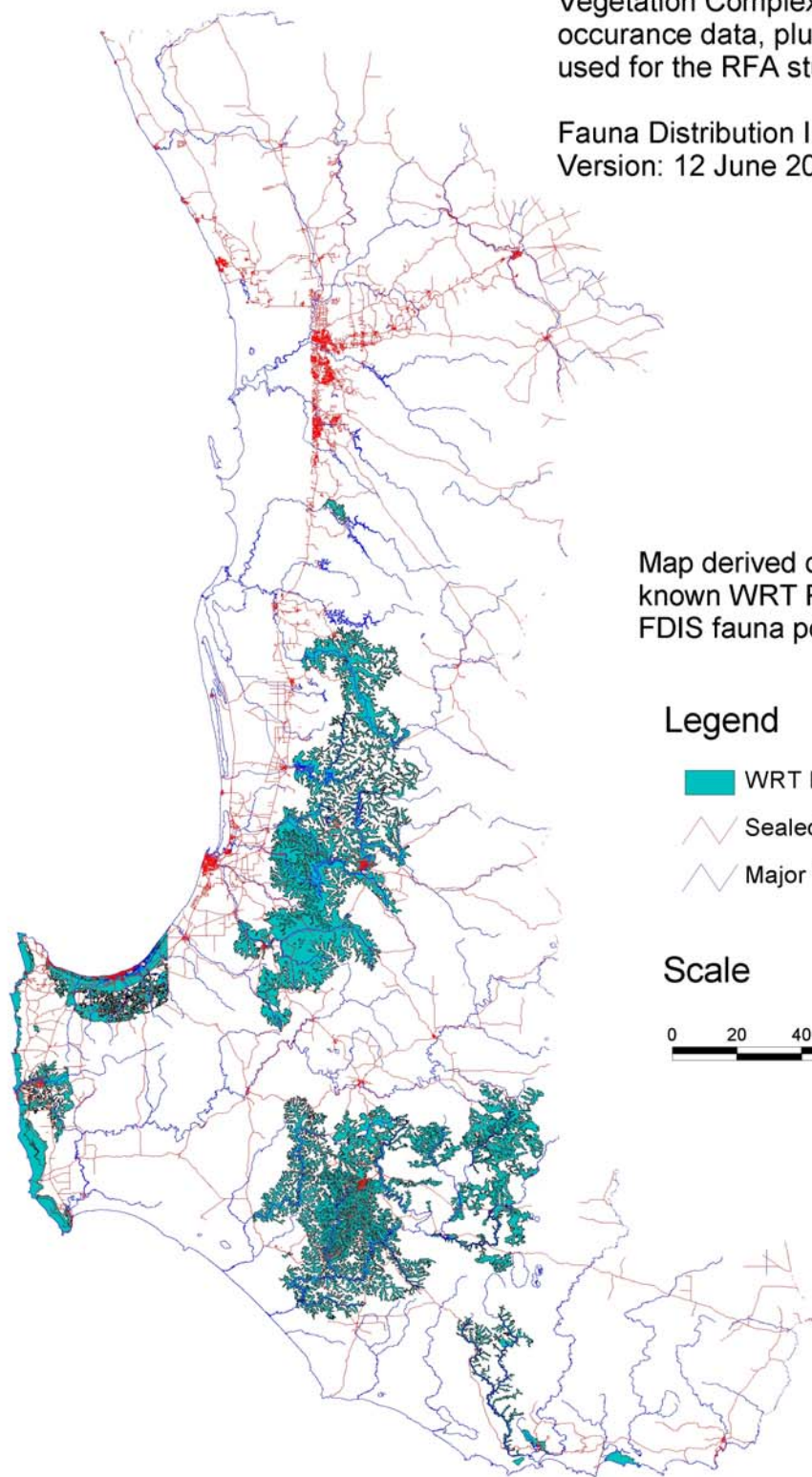




# Potential Occurrences - Western Ringtail Possum




Based on FDIS polygons derived from Mattiske and Havel (1999) Pre 1750 Vegetation Complexes and CALM occurrence data, plus older records used for the RFA study.

Fauna Distribution Information System (FDIS)  
Version: 12 June 2005



Map derived directly by intersecting known WRT Population records with FDIS fauna polygons.

## Legend

-  WRT Possum possible distribution
-  Sealed Roads
-  Major Rivers

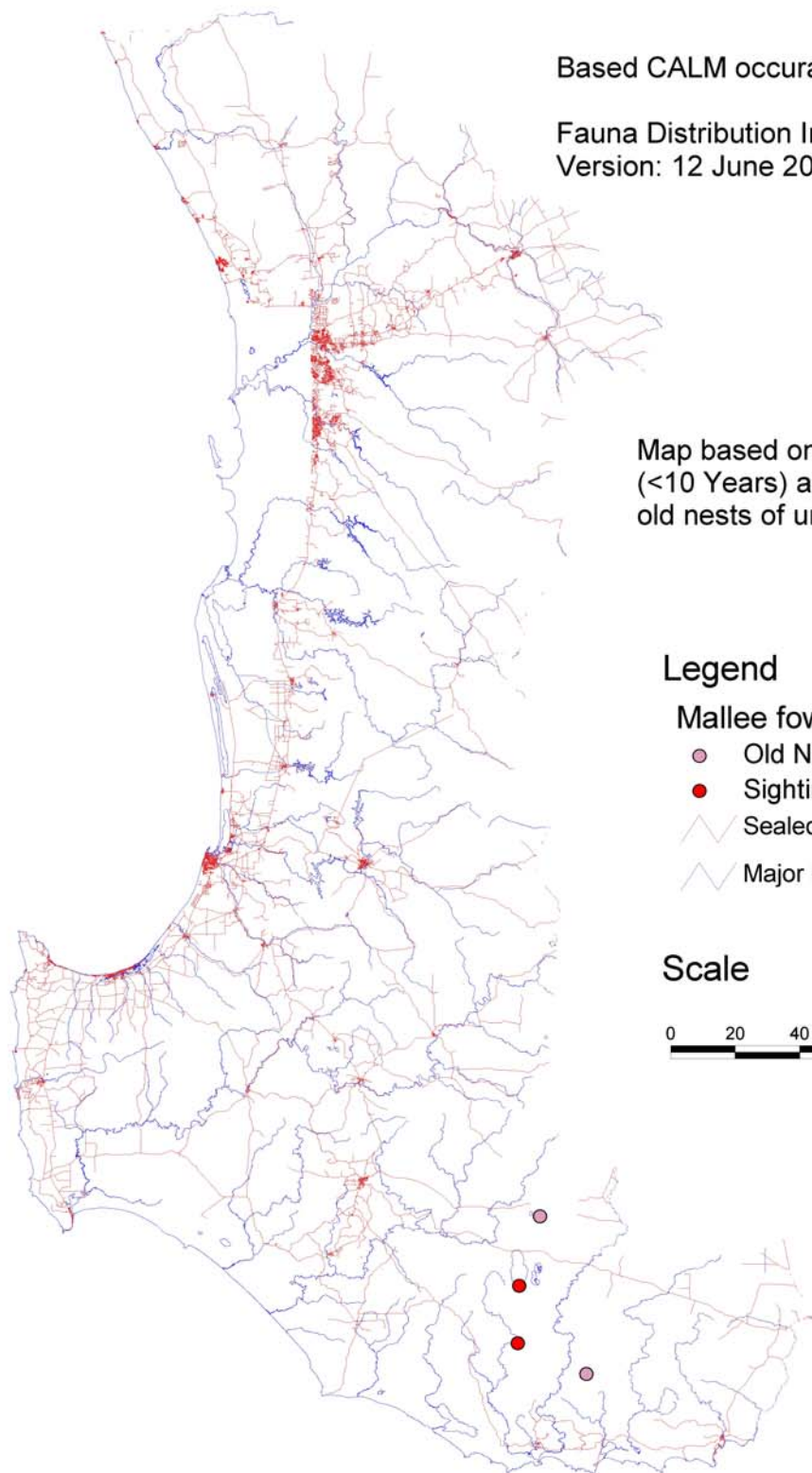
## Scale

0 20 40 60 80 100 Kilometers





# Potential Occurrences - Mallee Fowl



Based CALM occurrence data.

Fauna Distribution Information System (FDIS)  
Version: 12 June 2005

Map based on recent sightings (<10 Years) and the location of old nests of unknown age.

## Legend

- Mallee fowl
  - Old Nests
  - Sightings
- Sealed Roads
- Major Rivers

## Scale

0 20 40 60 80 100 Kilometers

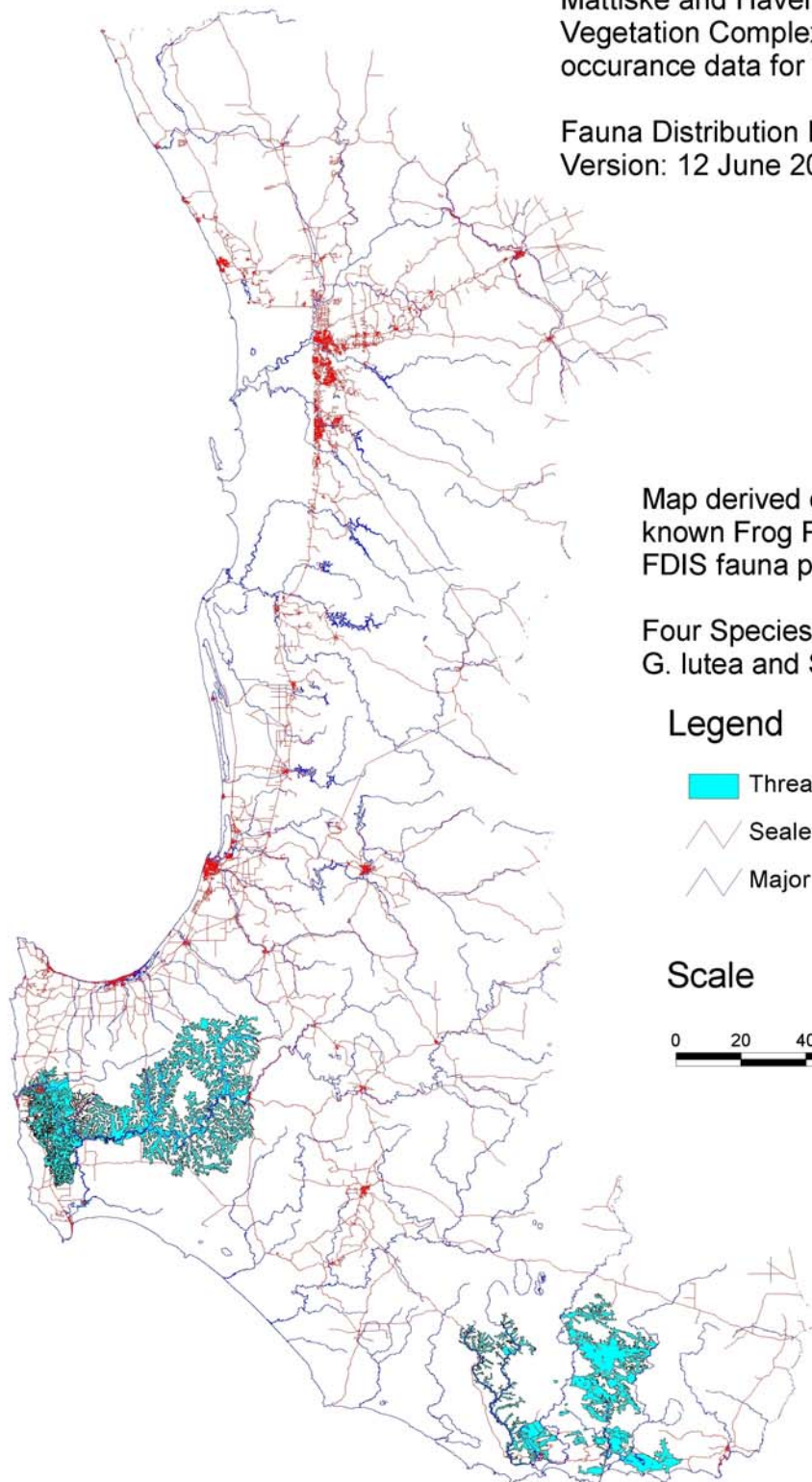




# Potential Occurrences - Threatened Frogs

Based on FDIS polygons derived from Matiske and Havel (1999) Pre 1750 Vegetation Complexes and CALM occurrence data for Threatened Frogs.

Fauna Distribution Information System (FDIS)  
Version: 12 June 2005



Map derived directly by intersecting known Frog Population records with FDIS fauna polygons.

Four Species - *Geocrinia vitellina*, *G. alba*, *G. lutea* and *Spicospina flammocaerulea*.

## Legend

-  Threatened Frog distribution
-  Sealed Roads
-  Major Rivers

## Scale

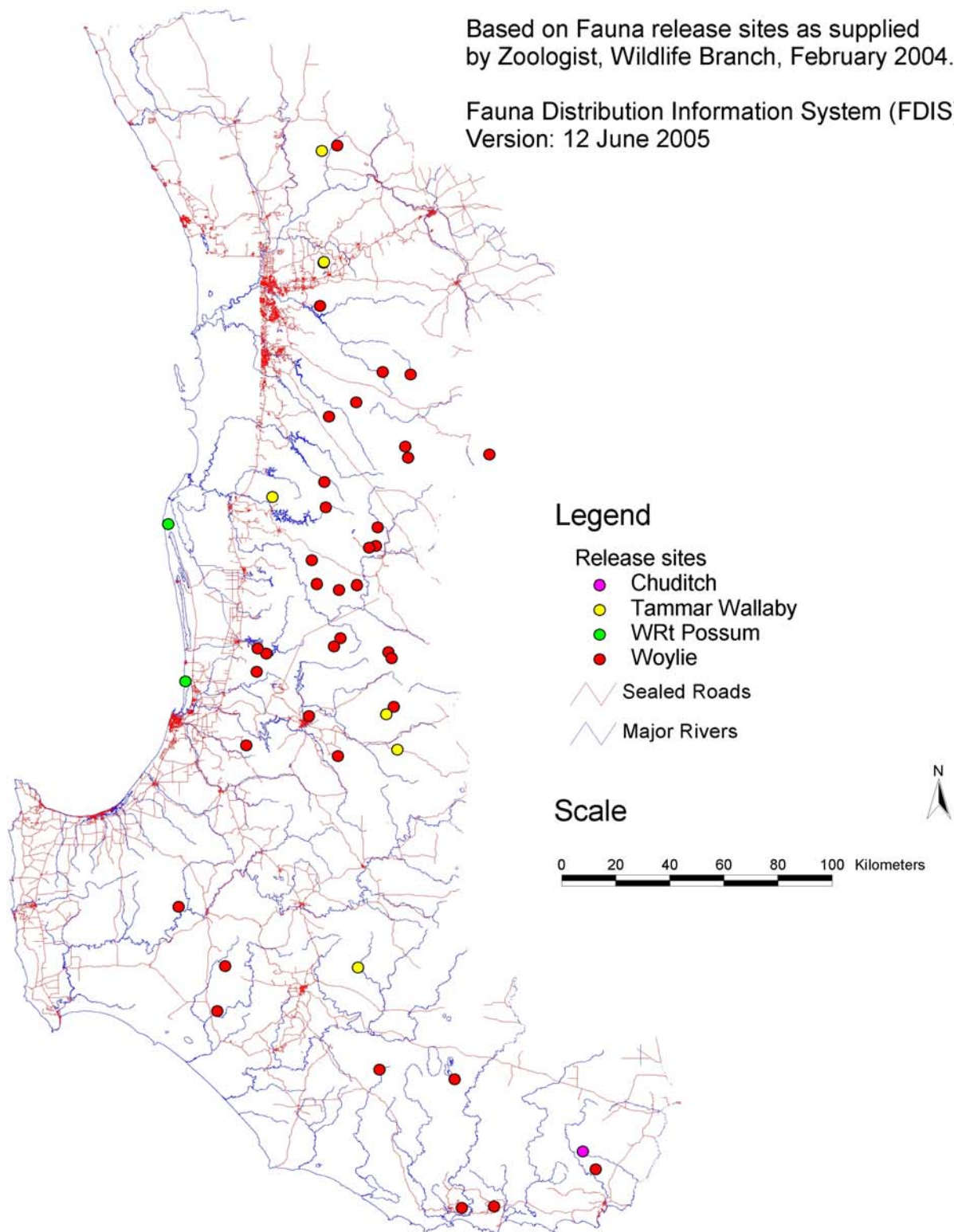
0 20 40 60 80 100 Kilometers



# Fauna Release Sites

Based on Fauna release sites as supplied by Zoologist, Wildlife Branch, February 2004.

Fauna Distribution Information System (FDIS)  
Version: 12 June 2005

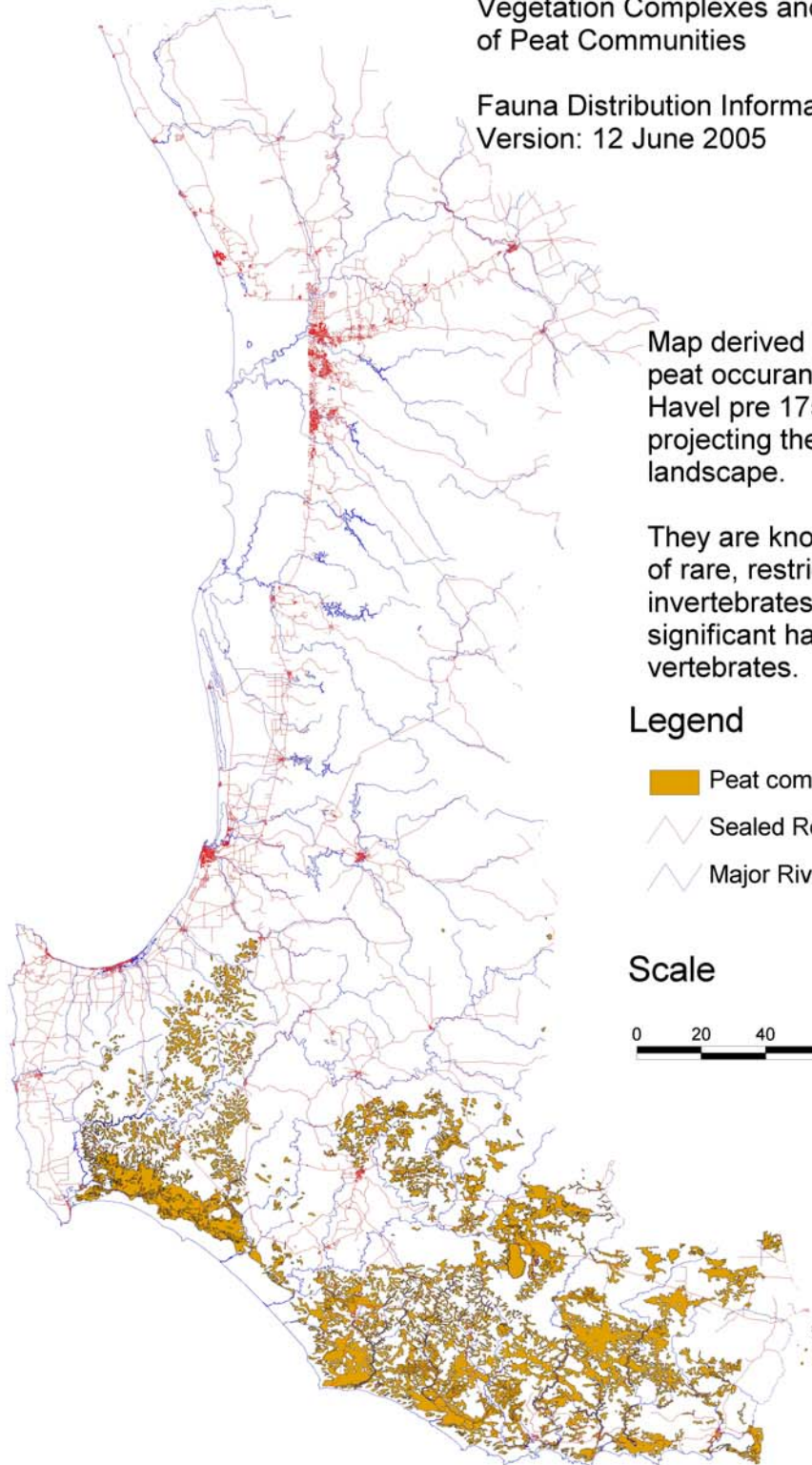




# Potential Occurrences - Peat Communities

Based on Matiske and Havel (1999) Pre 1750 Vegetation Complexes and known occurrences of Peat Communities

Fauna Distribution Information System (FDIS)  
Version: 12 June 2005



Map derived by intersecting known peat occurrences with Matiske and Havel pre 1750 Veg Complexes, then projecting these back across the landscape.

They are known to contain a suite of rare, restricted and endemic invertebrates as well as being significant habitat for a range of vertebrates.

## Legend

-  Peat communities distribution
-  Sealed Roads
-  Major Rivers

## Scale

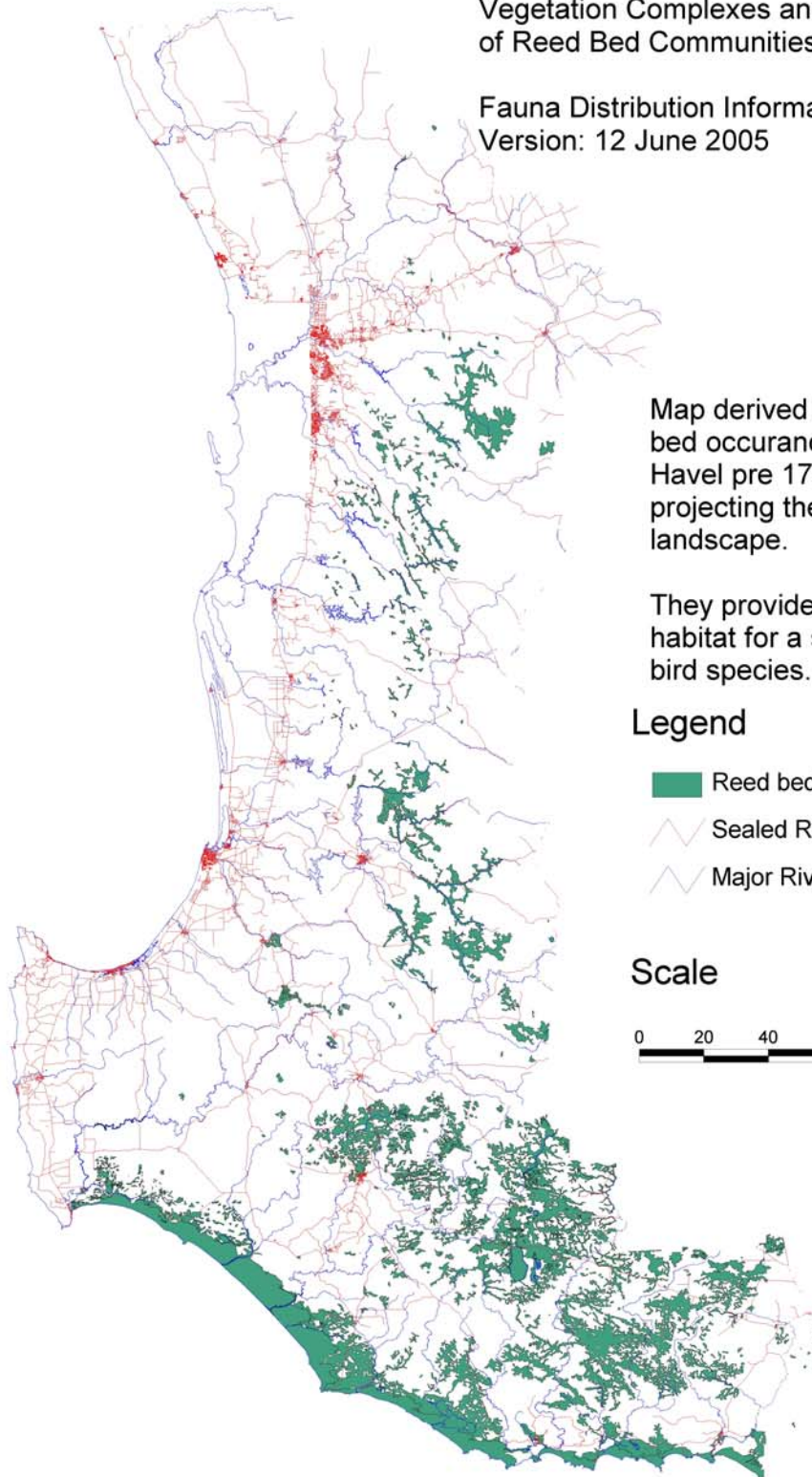
0 20 40 60 80 100 Kilometers



# Potential Occurrences - Reed Bed Communities

Based on Matiske and Havel (1999) Pre 1750 Vegetation Complexes and known occurrences of Reed Bed Communities

Fauna Distribution Information System (FDIS)  
Version: 12 June 2005



Map derived by intersecting known reed bed occurrences with Matiske and Havel pre 1750 Veg Complexes, then projecting these back across the landscape.

They provide significant breeding habitat for a significant number of bird species.

## Legend

- Reed bed communities distribution
- Sealed Roads
- Major Rivers

## Scale

0 20 40 60 80 100 Kilometers

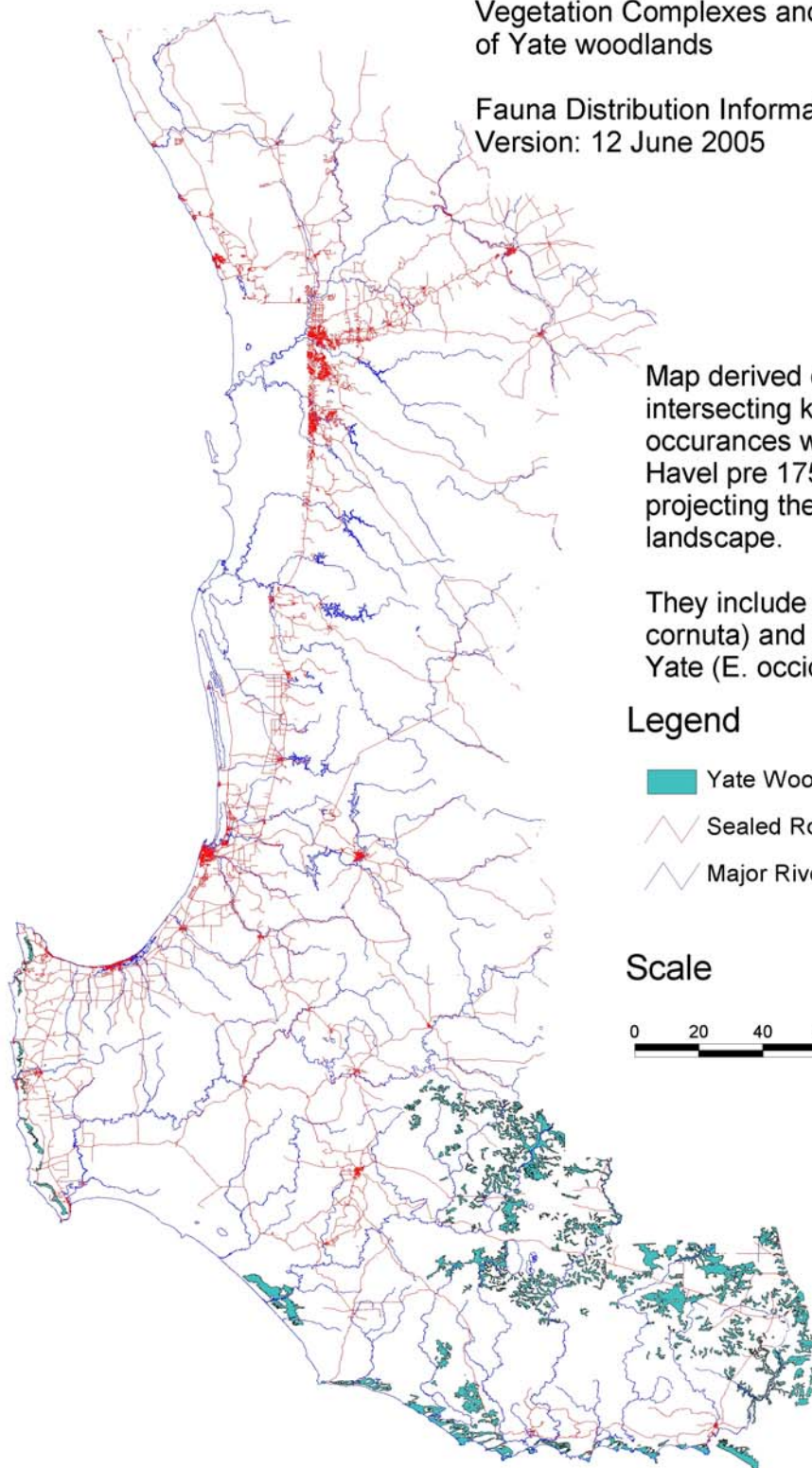




# Potential Occurrences - Yate Woodlands

Based on Matisse and Havel (1999) Pre 1750 Vegetation Complexes and known occurrences of Yate woodlands

Fauna Distribution Information System (FDIS)  
Version: 12 June 2005



Map derived directly from and by intersecting known Yate Woodland occurrences with Matisse and Havel pre 1750 Veg Complexes, then projecting these back across the landscape.

They include both Yate (*Eucalyptus cornuta*) and Flat Topped / Swamp Yate (*E. occidentalis*) woodlands.

## Legend

-  Yate Woodland distribution
-  Sealed Roads
-  Major Rivers

## Scale

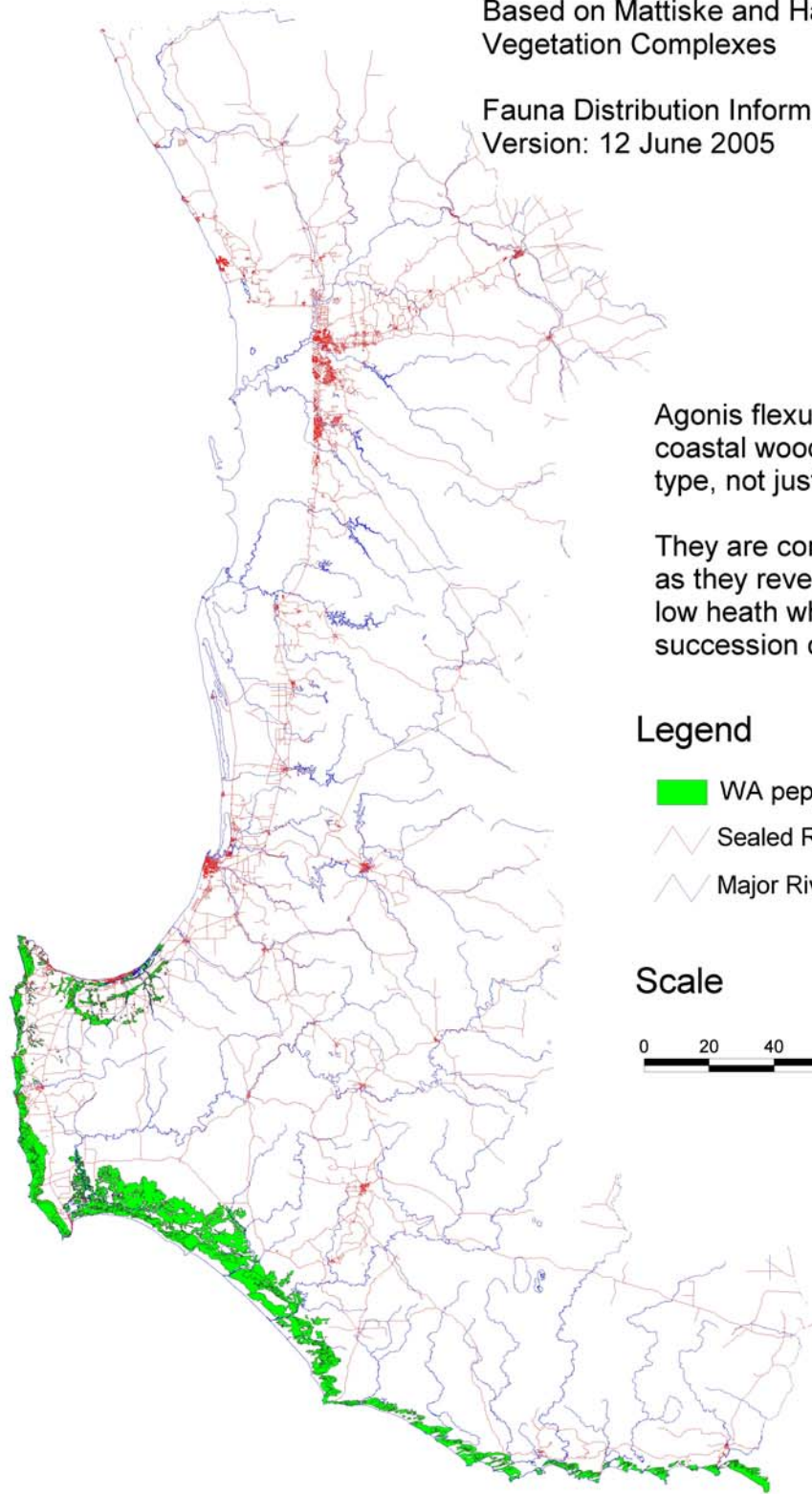
0 20 40 60 80 100 Kilometers



# Potential Occurrences - Coastal Peppermint Woodlands

Based on Matiske and Havel (1999) Pre 1750 Vegetation Complexes



Fauna Distribution Information System (FDIS)  
Version: 12 June 2005



*Agonis flexuosa* (WA Peppermint) coastal woodlands are a structural type, not just a species distribution.

They are considered vulnerable as they revert to a WA peppermint low heath when subject to a succession of extreme fire events.

## Legend

- WA peppermint coastal woodlands
-  Sealed Roads
-  Major Rivers

## Scale

0 20 40 60 80 100 Kilometers

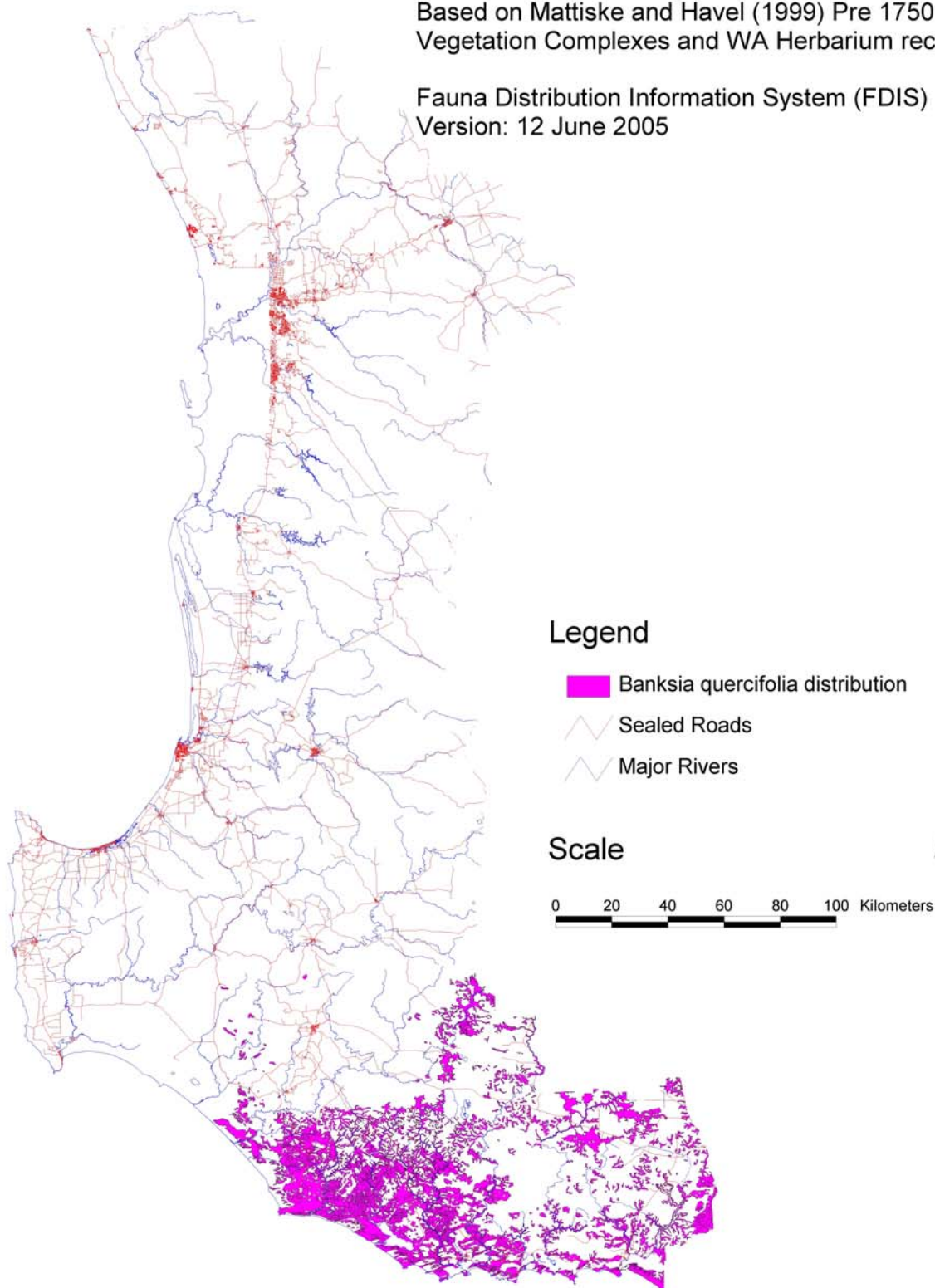




# Potential Occurrences - *Banksia quercifolia*

Based on Matiske and Havel (1999) Pre 1750  
Vegetation Complexes and WA Herbarium records

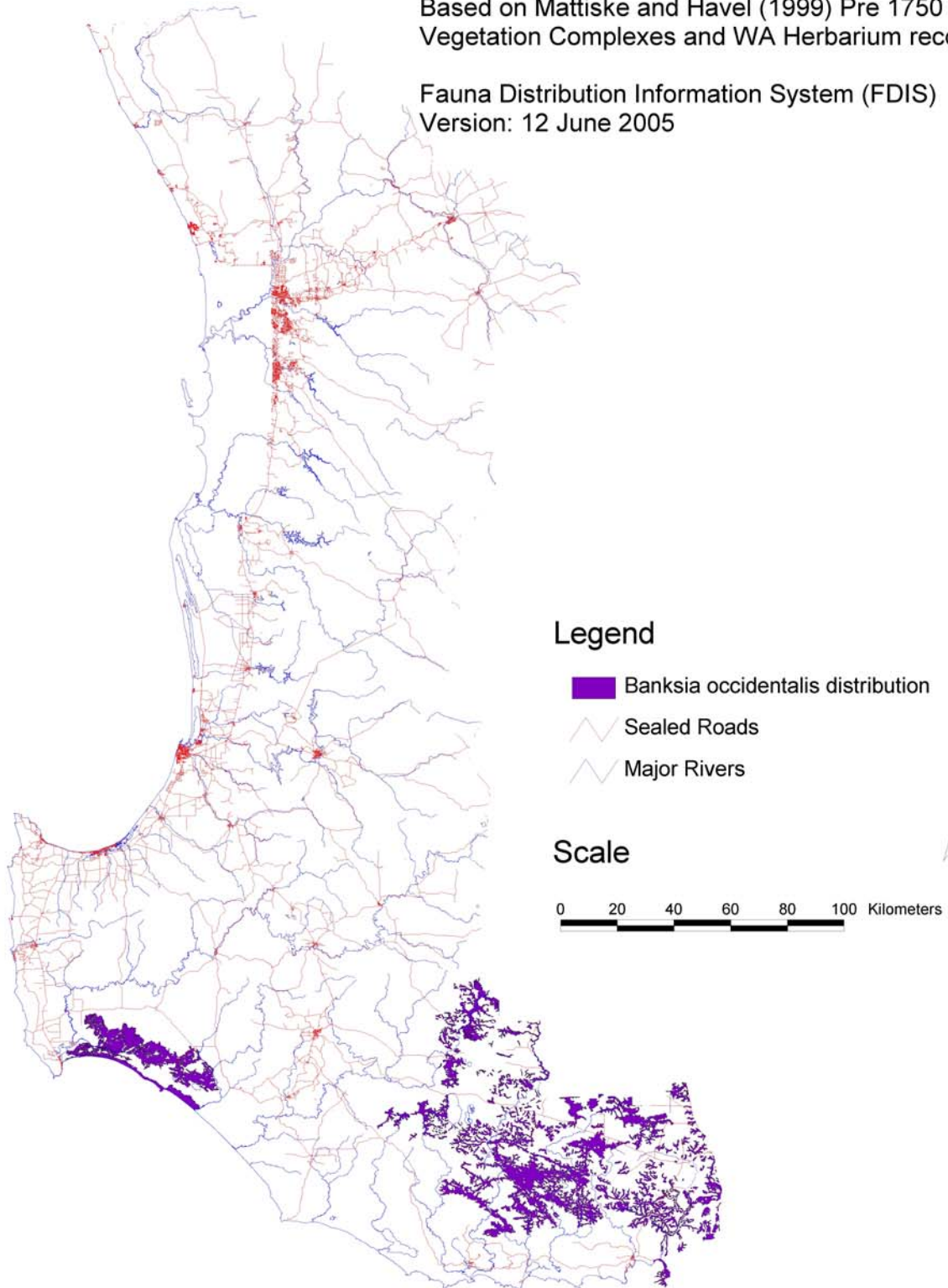
Fauna Distribution Information System (FDIS)  
Version: 12 June 2005



# Potential Occurrences - *Banksia occidentalis*

Based on Matiske and Havel (1999) Pre 1750  
Vegetation Complexes and WA Herbarium records

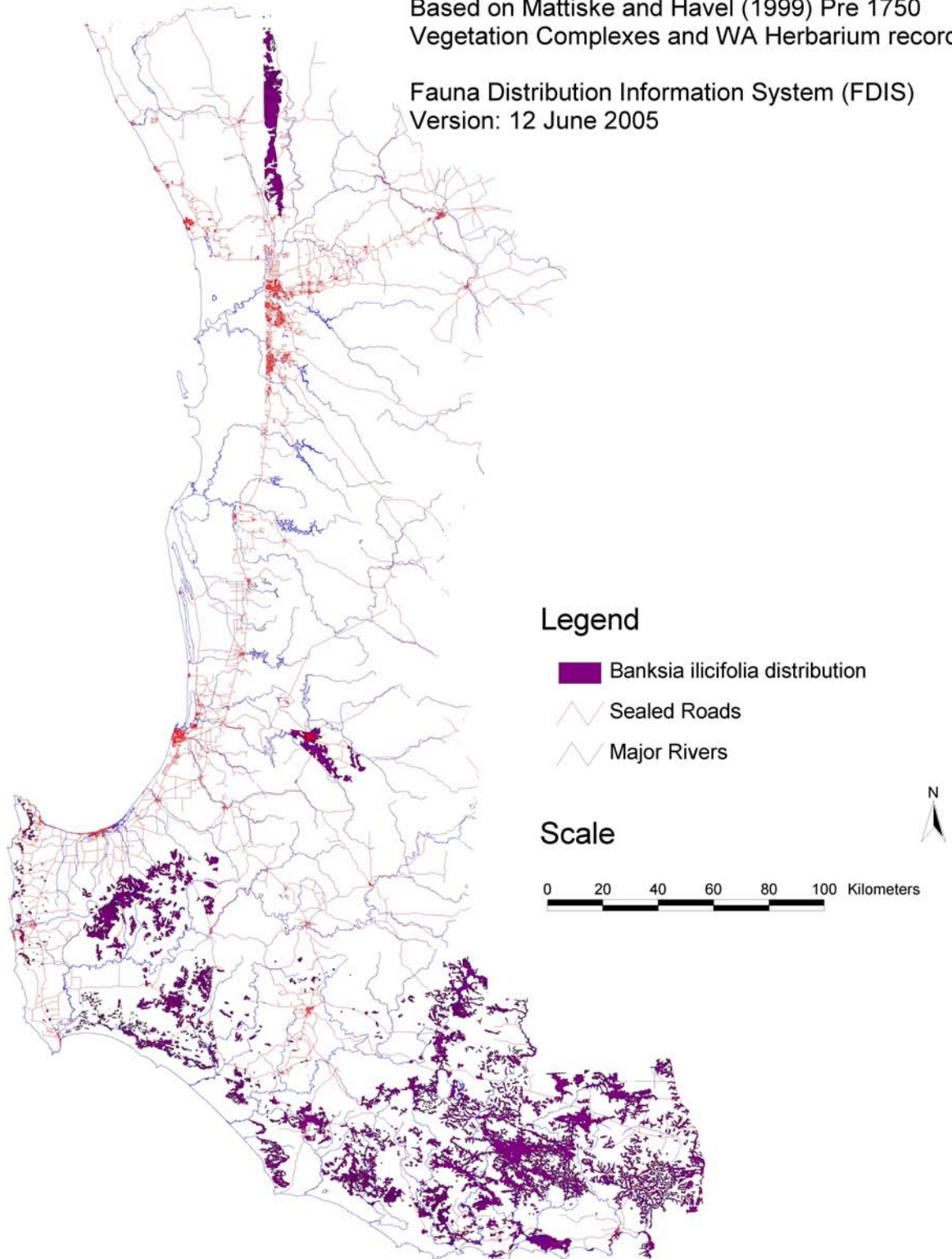
Fauna Distribution Information System (FDIS)  
Version: 12 June 2005



# Potential Occurrences - *Banksia ilicifolia*

Based on Matiske and Havel (1999) Pre 1750  
Vegetation Complexes and WA Herbarium records

Fauna Distribution Information System (FDIS)  
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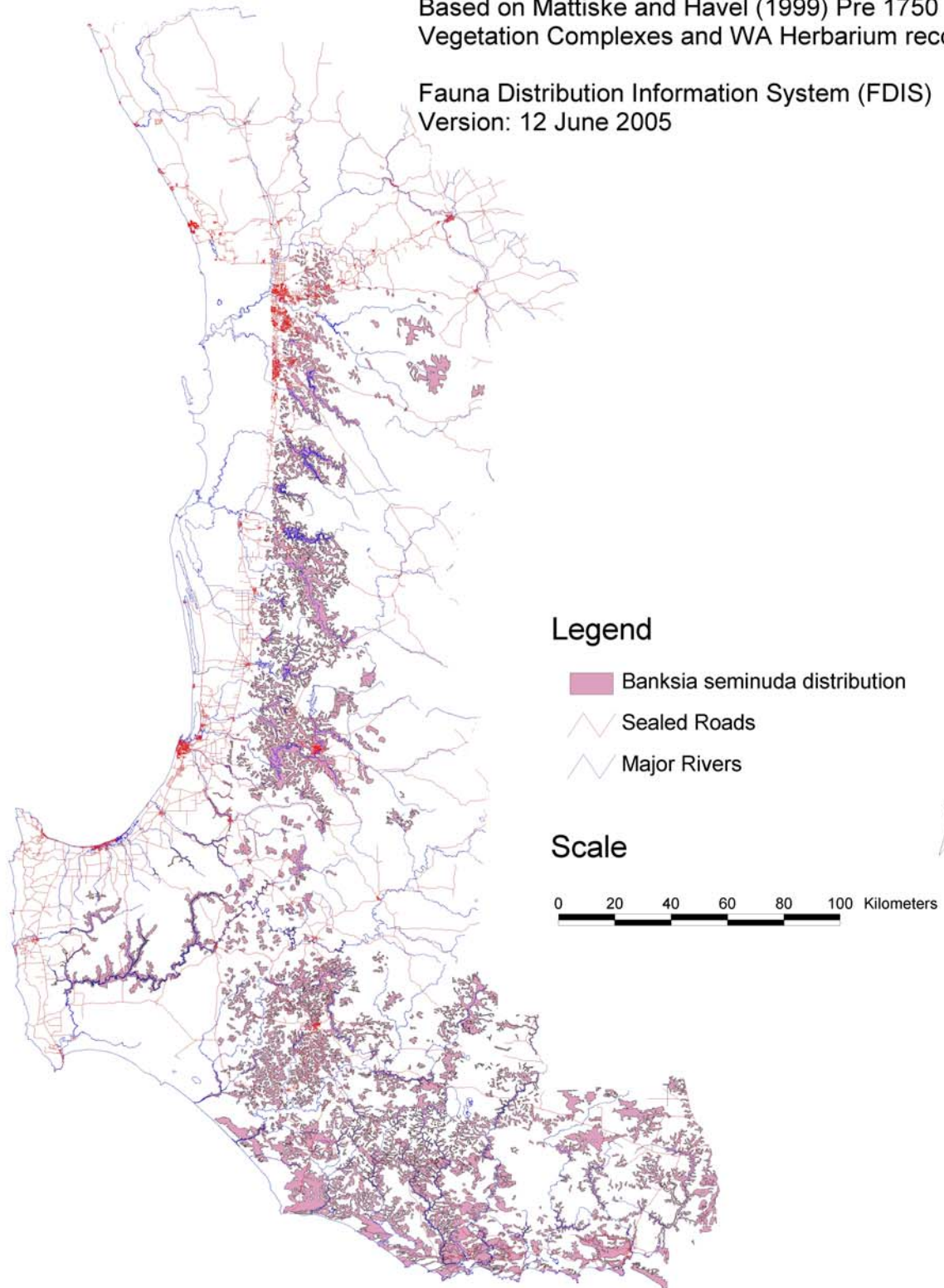




# Potential Occurrences - *Banksia seminuda*

Based on Matiske and Havel (1999) Pre 1750  
Vegetation Complexes and WA Herbarium records

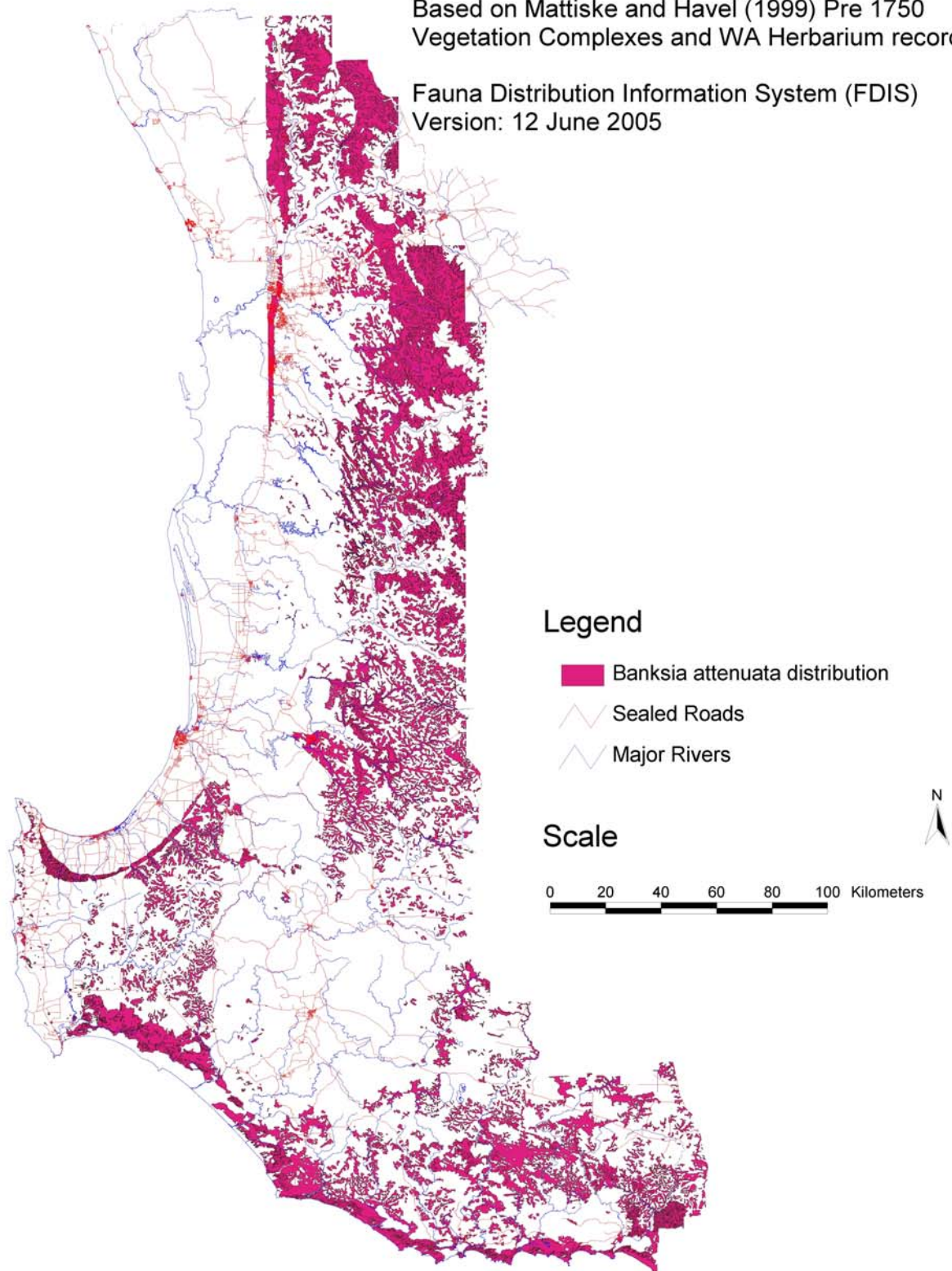
Fauna Distribution Information System (FDIS)  
Version: 12 June 2005



# Potential Occurrences - *Banksia attenuata*

Based on Matiske and Havel (1999) Pre 1750  
Vegetation Complexes and WA Herbarium records

Fauna Distribution Information System (FDIS)  
Version: 12 June 2005



## Appendix 10. Descriptions and Map of FDIS Fauna Habitats

Fauna Habitat ID	FDIS LAND SYSTEM	FDIS LANDSCAPE UNIT	Description
1	Darling Plateau	Jarrah Uplands North	Open forest of <i>Eucalyptus marginata</i> - <i>Corymbia calophylla</i> on lateritic uplands in the humid, subhumid and semiarid zones.
2	Darling Plateau	Jarrah Uplands East	Open forest to woodland of <i>Eucalyptus marginata</i> - <i>Corymbia calophylla</i> on uplands in the east ranging through the arid to the humid zones. These communities may occur with mixtures of <i>Banksia attenuata</i> , <i>Nuytsia floribunda</i> and <i>Hakea prostrata</i> on slopes in the arid zone grading to <i>Banksia grandis</i> with some <i>Eucalyptus wandoo</i> on low undulating uplands and some lithic complex associated with granite outcrops in humid and subhumid zones.
3	Darling Plateau	Jarrah Uplands South	Tall open forest, open forest and woodland dominated by <i>Eucalyptus marginata</i> and <i>Corymbia calophylla</i> on uplands and hill slopes in the hyperhumid, perhumid, humid and subhumid zones. Other species present may variously include <i>Banksia grandis</i> , <i>Allocasuarina fraseriana</i> , <i>Allocasuarina decussata</i> , <i>Eucalyptus megacarpa</i> , <i>Eucalyptus brevistylis</i> , <i>Banksia ilicifolia</i> , <i>Xylomelum occidentale</i> and <i>Nuytsia floribunda</i> .
4	Darling Plateau	Jarrah Uplands South East	A complex fauna habitat type covering a range of structural vegetation types. Structurally ranges from open forests, through low open forests, woodlands and low woodlands on hills and rises dominated by <i>Eucalyptus marginata</i> and <i>Corymbia calophylla</i> , into mosaics of closed heath of <i>Myrtaceae-Proteaceae</i> spp with stunted <i>E. marginata</i> and <i>C. calophylla</i> on sands often with depressions within them, and on into granite outcrops and granite hills. Climatically the type reflects steep gradients and spans the hyperhumid to semiarid zones. Other major species dominating parts of the landscape can include <i>Eucalyptus megacarpa</i> , <i>Eucalyptus cornuta</i> , <i>Eucalyptus decipiens</i> , <i>Eucalyptus tetragona</i> , <i>Eucalyptus angulosa</i> , <i>Melaleuca preissiana</i> , <i>Melaleuca raphiophylla</i> , <i>Callistachys lanceolata</i> , <i>Banksia grandis</i> and <i>Allocasuarina fraseriana</i> .
5	Darling Plateau	Karri Uplands	Generally the tall open wet sclerophyll forests of the uplands in the south, these usually dominated by <i>Eucalyptus diversicolor</i> and <i>Corymbia calophylla</i> with some dominated by or including <i>Eucalyptus marginata</i> , <i>Eucalyptus brevistylis</i> , <i>Eucalyptus guilfoylei</i> and <i>Eucalyptus jacksonii</i> . It also includes the closed forests of <i>Eucalyptus jacksonii</i> , woodland of <i>Agonis flexuosa-Eucalyptus megacarpa</i> on lower slopes at base of granite outcrops and closed heath of <i>Myrtaceae-Proteaceae</i> spp. and lithic complex on granite outcrops. Climatically restricted to the hyperhumid, perhumid and humid zones. Other species typically can include <i>Allocasuarina decussata</i> , <i>Agonis flexuosa</i> , <i>Banksia grandis</i> , <i>Melaleuca preissiana</i> and <i>Banksia littoralis</i> .
6	Darling Plateau	Wandoo Uplands North	Mixture of open forest of <i>Eucalyptus marginata</i> - <i>Corymbia calophylla</i> and woodland of <i>Eucalyptus wandoo</i> on lateritic uplands in semiarid to perarid zones.
7	Darling Plateau	Powder Bark Uplands	Woodland of <i>Eucalyptus wandoo</i> - <i>Eucalyptus accedens</i> , less consistently open forest of <i>Eucalyptus marginata</i> - <i>Corymbia calophylla</i> on lateritic uplands and breakaway landscapes in arid and perarid zones.

Fauna Habitat ID	FDIS LAND SYSTEM	FDIS LANDSCAPE UNIT	Description
8	Darling Plateau	Scarp	Mosaic of tall open and open forest of <i>Eucalyptus marginata</i> - <i>Corymbia calophylla</i> along the Darling Scarp, with some admixtures with <i>Eucalyptus laeliae</i> in the north (subhumid zone), and <i>Corymbia haematoxylon</i> in the south (humid zone) on deeper soils adjacent to outcrops, woodland of <i>Eucalyptus wandoo</i> (subhumid and semiarid zones), low woodland of <i>Allocasuarina huegeliana</i> on shallow soils over granite outcrops, closed heath of Myrtaceae-Proteaceae species and lithic complex on or near granite outcrops in all climate zones. Spans the hyperhumid to semiarid zones and can include major components of <i>Banksia grandis</i> , <i>Allocasuarina fraseriana</i> and <i>Agonis flexuosa</i> .
9	Darling Plateau	Depression / Swamps North	Not currently used - in Swamps and Depressions East and various Valley systems.
10	Darling Plateau	Depressions / Swamps South	Mosaic of open forest and woodlands of <i>Eucalyptus marginata</i> (sometimes <i>Corymbia calophylla</i> ) with <i>Banksia</i> spp. on well drained sites, with <i>Banksia littoralis</i> , <i>Banksia seminuda</i> , <i>Melaleuca preissiana</i> and <i>Melaleuca cuticularis</i> on broad depressions, with <i>Banksia ilicifolia</i> , <i>Banksia grandis</i> , <i>Banksia attenuata</i> and <i>Xylomelum occidentale</i> on sandy slopes and low undulating rises, <i>Eucalyptus decipiens</i> on lower slopes, woodland of <i>Eucalyptus rudis</i> , <i>Melaleuca preissiana</i> and <i>Banksia littoralis</i> in depressions and sedgeland of Cyperaceae spp. on broad depressions and flats. Climate varies from the perhumid to humid and subhumid zones.
11	Darling Plateau	Depressions / Swamps East	Mosaic of open forest and woodlands of <i>Eucalyptus marginata</i> (sometimes <i>Corymbia calophylla</i> ) with <i>Banksia attenuata</i> , <i>Banksia grandis</i> and <i>Nuytsia floribunda</i> on well drained sandy lower slopes and rises; woodlands of <i>Eucalyptus wandoo</i> on some lower slopes; woodlands of <i>Eucalyptus rudis</i> - <i>Melaleuca raphiophylla</i> and low woodlands of <i>Banksia attenuata</i> and <i>Banksia menziesii</i> on drier sandier sites; low open woodland of <i>Melaleuca preissiana</i> and <i>Banksia littoralis</i> on the moister sandy soils and in depressions; closed scrub and heath of Myrtaceae spp; and sedgelands of <i>Baumea</i> and Restionaceous species on seasonally wet or moist sand, peat and clay soils on valley floors. Climate varies through the humid, subhumid and semiarid zones.
12	Darling Plateau	Depressions / Swamps South East	Mosaic of woodlands and low woodlands of <i>Eucalyptus marginata</i> - <i>Corymbia calophylla</i> with variously <i>Allocasuarina fraseriana</i> , <i>Banksia attenuata</i> , <i>Banksia grandis</i> and <i>Nuytsia floribunda</i> on slopes; low woodland of <i>Allocasuarina fraseriana</i> - <i>Corymbia ficifolia</i> - <i>Banksia ilicifolia</i> - <i>Banksia attenuata</i> - <i>Banksia occidentalis</i> on slopes; woodlands of <i>Eucalyptus occidentalis</i> , <i>Melaleuca cuticularis</i> , <i>Melaleuca raphiophylla</i> , low and lo open woodland of <i>Melaleuca preissiana</i> , <i>Banksia littoralis</i> and tall shrublands of <i>Melaleuca viminea</i> on broad depressions; sedgeland of Cyperaceae spp., tall shrubland of Myrtaceae spp. and an open woodland of <i>Melaleuca preissiana</i> with some <i>Eucalyptus marginata</i> subsp. <i>marginata</i> on broad depressions. Climate varies from perhumid to himid, subhumid and semiarid.
13	Darling Plateau	Jarrah Valleys North	Open forest of <i>Eucalyptus marginata</i> - <i>Corymbia calophylla</i> , occasionally with <i>Eucalyptus patens</i> , <i>Eucalyptus wandoo</i> , <i>Corymbia haematoxylon</i> and <i>Agonis flexuosa</i> on slopes; open forests of <i>Eucalyptus patens</i> and <i>Eucalyptus megacarpa</i> and woodlands of <i>Eucalyptus rudis</i> , <i>Eucalyptus patens</i> , <i>Melaleuca raphiophylla</i> , <i>Hakea prostrata</i> and <i>Melaleuca viminea</i> on valley floor. Climate spans humid to semiarid zones.



Fauna Habitat ID	FDIS LAND SYSTEM	FDIS LANDSCAPE UNIT	Description
14	Darling Plateau	Jarrah Valleys East	Mosaic of Open forest of <i>Corymbia calophylla</i> with some <i>Eucalyptus marginata</i> , woodlands of <i>Eucalyptus patens</i> and <i>Eucalyptus marginata</i> - <i>Corymbia calophylla</i> and low woodland of <i>Melaleuca preissiana</i> - <i>Banksia littoralis</i> on slopes with <i>Eucalyptus rudis</i> - <i>Melaleuca preissiana</i> - <i>Banksia littoralis</i> and tall shrublands of <i>Melaleuca</i> spp. on valley floors in the humid and subhumid zones.
15	Darling Plateau	Jarrah Valleys South	Open forest of <i>Eucalyptus marginata</i> - <i>Corymbia calophylla</i> on slopes sometimes with <i>Eucalyptus patens</i> on lower slopes; open forest of <i>Eucalyptus patens</i> - <i>Corymbia calophylla</i> on lower slopes; low open forest of <i>Eucalyptus rudis</i> - <i>Melaleuca raphiophylla</i> and tall woodlands and woodlands of <i>Eucalyptus rudis</i> over <i>Banksia littoralis</i> <i>Banksia seminuda</i> , <i>Agonis flexuosa</i> , <i>Xylomelum occidentale</i> , <i>Hakea lasianthoides</i> , <i>Melaleuca raphiophylla</i> , <i>Callistachys lanceolata</i> and <i>Nuytsia floribunda</i> on the valley floors in the humid and subhumid zones.
16	Darling Plateau	Jarrah Valleys South East	Various mixtures of woodlands of <i>Eucalyptus rudis</i> , <i>Eucalyptus occidentalis</i> , <i>Eucalyptus patens</i> and <i>Corymbia calophylla</i> on valley floors, low forest of <i>Allocasuarina decussata</i> and <i>Banksia seminuda</i> on valley floors, low woodland of <i>Melaleuca preissiana</i> , <i>Melaleuca raphiophylla</i> and <i>Melaleuca cuticularis</i> on valley floors, and mosaics of shrublands and sedgeland on valley floors including <i>Halosarcia</i> spp and halophytic complex on saline terraces and saline flats in the perhumid, humid, subhumid and semiarid zones.
17	Darling Plateau	Karri Valleys	Tall open forest of <i>Eucalyptus diversicolor</i> and occasionally tall open forest of <i>Eucalyptus marginata</i> , these in various mixtures with <i>Corymbia calophylla</i> , <i>Eucalyptus patens</i> , <i>Eucalyptus guilfoylei</i> , <i>Agonis flexuosa</i> and <i>Allocasuarina decussata</i> on the valley slopes; mixtures of tall open forest of <i>Eucalyptus diversicolor</i> , <i>Corymbia calophylla</i> , <i>Eucalyptus patens</i> , <i>Eucalyptus marginata</i> and <i>Eucalyptus megacarpa</i> over <i>Agonis flexuosa</i> , <i>Agonis juniperina</i> , <i>Allocasuarina decussata</i> and <i>Callistachys lanceolata</i> , and, woodlands of <i>Eucalyptus rudis</i> - <i>Banksia littoralis</i> , or low forest to low woodland of <i>Agonis juniperina</i> , <i>Agonis flexuosa</i> , <i>Allocasuarina decussata</i> , <i>Banksia seminuda</i> , <i>Callistachys lanceolata</i> on the valley floors in the hyperhumid, perhumid and humid zones.
18	Darling Plateau	Wandoo Valleys North	Mosaic of open forest of <i>Eucalyptus marginata</i> - <i>Corymbia calophylla</i> and occasional <i>Eucalyptus patens</i> ; woodland and open woodlands of <i>Eucalyptus wandoo</i> with some <i>Eucalyptus accedens</i> , <i>Eucalyptus patens</i> , <i>Eucalyptus marginata</i> , <i>Corymbia calophylla</i> , <i>Acacia acuminata</i> with some <i>Eucalyptus loxophleba</i> on valley slopes; woodland of <i>Eucalyptus rudis</i> and <i>Melaleuca raphiophylla</i> and low forest of <i>Casuarina obesa</i> and tall shrubland of <i>Melaleuca</i> spp.on the valley floors; low woodland of <i>Allocasuarina huegeliana</i> to closed heaths and lithic complex on shallow soils associated with or near shallow granite outcrops in the semiarid, arid and perarid zones
19	Darling Plateau	Powder Bark Wandoo Valleys	Woodland of <i>Eucalyptus loxophleba</i> on the slopes, flanked by woodlands of <i>Eucalyptus wandoo</i> - <i>Eucalyptus accedens</i> on the breakaways and upper slopes, and a mosaic of low open forest of <i>Casuarina obesa</i> and open scrub of <i>Casuarina obesa</i> - <i>Acacia</i> spp. <i>Melaleuca</i> spp. and woodland of <i>Eucalyptus rudis</i> - <i>Melaleuca raphiophylla</i> on major valley systems in the perarid zone.



Fauna Habitat ID	FDIS LAND SYSTEM	FDIS LANDSCAPE UNIT	Description
20	Darling Plateau	Granite Outcrops	Mosaic of open forest of <i>Eucalyptus marginata</i> subsp. <i>marginata</i> - <i>Corymbia calophylla</i> (subhumid zone) and open forest of <i>Eucalyptus marginata</i> subsp. <i>thalassica</i> - <i>Corymbia calophylla</i> (semiarid and arid zones) and on deeper soils adjacent to outcrops, closed heath of <i>Myrtaceae</i> - <i>Proteaceae</i> species and lithic complex on granite rocks and associated soils in all climate zones, with some <i>Eucalyptus laeliae</i> (semiarid), and <i>Allocasuarina huegeliana</i> and <i>Eucalyptus wandoo</i> (mainly semiarid to perarid zones).
21	Various Systems	Estuaries / Open Water	Woodland of <i>Melaleuca cuticularis</i> and sedgeland of <i>Cyperaceae</i> - <i>Restionaceae</i> spp. on estuarine flats in the perhumid zone and emergent aquatic vegetation, predominantly <i>Myrtaceae</i> - <i>Cyperaceae</i> - <i>Restionaceae</i> at the margins of open water.
22	Collie Plain	Uplands	Open forest of <i>Eucalyptus marginata</i> subsp. <i>marginata</i> - <i>Corymbia calophylla</i> - <i>Allocasuarina fraseriana</i> on gravelly-sandy upland soils and open woodland of <i>Allocasuarina fraseriana</i> - <i>Banksia</i> spp.- <i>Xylomelum occidentale</i> - <i>Nuytsia floribunda</i> on sandy soils on valley slopes in the subhumid zone.
23	Collie Plain	Depressions / Swamps	Open woodland of <i>Melaleuca preissiana</i> - <i>Banksia littoralis</i> - <i>Banksia ilicifolia</i> with some <i>Eucalyptus patens</i> on moister sites, <i>Banksia</i> spp. on drier sites of valley floors in the subhumid zone.
24	Dandaragan Plateau	Uplands	Open forest to open woodland of <i>Eucalyptus marginata</i> - <i>Corymbia calophylla</i> with second storey of <i>Banksia grandis</i> on lateritic uplands, and <i>Eucalyptus todtiana</i> - <i>Banksia attenuata</i> - <i>Banksia menziesii</i> - <i>Banksia ilicifolia</i> on sandy-gravels; these grading into a mixture of low open forest to low open woodland of <i>Eucalyptus todtiana</i> - <i>Banksia attenuata</i> - <i>Banksia menziesii</i> - <i>Banksia ilicifolia</i> on sandy-gravels grading into closed heath of <i>Myrtaceae</i> - <i>Proteaceae</i> spp. depending on depth of soils in arid and perarid zones.
25	Dandaragan Plateau	Valleys	Low open forest to woodland of <i>Banksia attenuata</i> - <i>Banksia menziesii</i> - <i>Eucalyptus todtiana</i> - <i>Banksia prionotes</i> on sandier slopes, and, open woodland of <i>Corymbia calophylla</i> - <i>Banksia</i> spp. grading into a mixture of low shrubland of <i>Melaleuca</i> spp. and woodland of <i>Casuarina obesa</i> and sedgeland of <i>Baumea</i> and <i>Leptocarpus</i> spp., on valley floors, with River fringing woodlands of <i>Eucalyptus rudis</i> and <i>Melaleuca raphiophylla</i> on sandy terraces and slopes of the Moore River as it traverses the fluvial deposits that form the Coastal Plain and Dandaragan Plateau in the arid and perarid zones.
26	Swan Coastal Plain	Uplands	Mosaic of woodland and open forest of <i>Corymbia calophylla</i> on flats and low rises; woodland of <i>Corymbia calophylla</i> - <i>Agonis flexuosa</i> - <i>Allocasuarina fraseriana</i> - <i>Nuytsia floribunda</i> on mild slopes; open forest of <i>Corymbia calophylla</i> - <i>Eucalyptus wandoo</i> - <i>Eucalyptus marginata</i> subsp. <i>elegantella</i> and open forest of <i>Eucalyptus marginata</i> <i>Corymbia calophylla</i> - <i>Allocasuarina fraseriana</i> - <i>Banksia</i> spp. on the erosional spurs off the Darling Scarp to woodland of <i>Eucalyptus rudis</i> on the dissecting gullies; open forest of <i>Corymbia calophylla</i> - <i>Eucalyptus wandoo</i> - <i>Eucalyptus marginata</i> and woodland of <i>Eucalyptus wandoo</i> with rare occurrences of <i>Eucalyptus lane-poolei</i> in north in humid to semiarid zones. Mixture of low open forest and low woodland of <i>Eucalyptus todtiana</i> - <i>Banksia attenuata</i> - <i>Banksia menziesii</i> - <i>Banksia ilicifolia</i> with mixtures of <i>Banksia prionotes</i> and an open woodland of <i>Corymbia calophylla</i> - <i>Banksia</i> spp. in arid zone.

Fauna Habitat ID	FDIS LAND SYSTEM	FDIS LANDSCAPE UNIT	Description
27	Swan Coastal Plain	Valleys	Mosaic of open forest and woodland of <i>Corymbia calophylla</i> - <i>Agonis flexuosa</i> - <i>Acacia saligna</i> on lower slopes, woodland of <i>Corymbia calophylla</i> - <i>Agonis flexuosa</i> and tall shrubland of <i>Myrtaceae</i> - <i>Proteaceae</i> spp. on terraces and valley floors, woodland of <i>Eucalyptus rudis</i> - <i>Melaleuca raphiophylla</i> with localized occurrences of low open forest of <i>Casuarina obesa</i> and <i>Melaleuca cuticularis</i> on low plains and depressions; tall shrubland, open woodland and low woodland of <i>Melaleuca</i> spp. and woodland of <i>Eucalyptus rudis</i> - <i>Melaleuca raphiophylla</i> with occasional <i>Corymbia calophylla</i> , and sedgelands of <i>Cyperaceae</i> - <i>Restionaceae</i> spp. on broad depressions in the humid zone. Open woodland of <i>Melaleuca raphiophylla</i> and sedgelands of <i>Cyperaceae</i> - <i>Restionaceae</i> spp. on broad depressions; tall shrubland of <i>Acacia saligna</i> - <i>Agonis flexuosa</i> and open heath on depressions amongst recent dunes in the subhumid zone. Low open forest of <i>Casuarina obesa</i> , with open woodland of <i>Corymbia calophylla</i> - <i>Eucalyptus wandoo</i> - <i>Eucalyptus marginata</i> on drier flats; closed scrub of <i>Melaleuca</i> spp. and low open forest of <i>Casuarina obesa</i> on the flats subject to inundation in arid zone.
28	Southern Plains	Jarrah	Mosaic of open forest of <i>Eucalyptus marginata</i> - <i>Corymbia calophylla</i> - <i>Agonis flexuosa</i> on mild slopes, low woodland to woodland of <i>Eucalyptus marginata</i> - <i>Eucalyptus patens</i> , low forest of <i>Agonis juniperina</i> - <i>Callistachys lanceolata</i> with closed heath of <i>Myrtaceae</i> spp. on sandy plains to low open woodland of <i>Eucalyptus marginata</i> - <i>Banksia ilicifolia</i> - <i>Nuytsia floribunda</i> and low open woodland of <i>Eucalyptus patens</i> - <i>Melaleuca preissiana</i> - <i>Nuytsia floribunda</i> on less undulating flats in hyperhumid and perhumid zones.
29	Southern Plains	Karri	Tall open forest of <i>Eucalyptus diversicolor</i> - <i>Allocasuarina decussata</i> - <i>Agonis flexuosa</i> with <i>Eucalyptus patens</i> and <i>Corymbia calophylla</i> on slopes at the interface between granite hills and the southern coastal plain, open forest of <i>Eucalyptus marginata</i> - <i>Banksia ilicifolia</i> - <i>Nuytsia floribunda</i> with some <i>Eucalyptus diversicolor</i> on gently sloping sandy terrain and with some shrublands of <i>Myrtaceae</i> spp. in hyperhumid and perhumid zones.
30	Southern Plains	Heath / Sedgeland	Mosaic of low woodland of <i>Eucalyptus marginata</i> - <i>Corymbia calophylla</i> on slopes; low open woodland of <i>Agonis flexuosa</i> - <i>Agonis juniperina</i> on low rises, open woodland of <i>Allocasuarina fraseriana</i> - <i>Banksia attenuata</i> - <i>Banksia ilicifolia</i> , with stunted <i>Eucalyptus marginata</i> on sandy plains and flats; low forest of <i>Agonis juniperina</i> on broad swampy plains; low woodland of <i>Eucalyptus marginata</i> - <i>Nuytsia floribunda</i> with some <i>Melaleuca preissiana</i> on broad drainage lines; low open woodland with admixtures of <i>Banksia littoralis</i> , <i>Melaleuca preissiana</i> , <i>Melaleuca raphiophylla</i> , <i>Melaleuca cuticularis</i> , and <i>Agonis juniperina</i> on valley floors with broad low lying flats and impeded drainage; tall shrubland of <i>Melaleuca densa</i> and <i>Agonis linearifolia</i> - <i>Agonis parviceps</i> on broad swamps and flats; open to closed heaths of <i>Myrtaceae</i> - <i>Proteaceae</i> - <i>Papilionaceae</i> spp. and sedgeland of <i>Anarthria</i> - <i>Restionaceae</i> - <i>Cyperaceae</i> spp. with occasional emergent <i>Eucalyptus patens</i> , <i>Eucalyptus megacarpa</i> and <i>Melaleuca preissiana</i> on broad depressions, broad flats and drainage corridors and valley floors with impeded drainage in hyperhumid and perhumid zones.

Fauna Habitat ID	FDIS LAND SYSTEM	FDIS LANDSCAPE UNIT	Description
31	South Coast Dunes	South Coast Dunes	Mosaic of woodland to low forest of <i>Eucalyptus marginata</i> <i>Corymbia calophylla</i> - <i>Agonis flexuosa</i> - <i>Banksia grandis</i> with some <i>Eucalyptus megacarpa</i> on stabilised higher and recent low dunes; woodlands to low open woodland of <i>Agonis flexuosa</i> with a range of associated species including <i>Banksia attenuata</i> , <i>Xylomelum occidentale</i> , <i>Banksia ilicifolia</i> , <i>Allocasuarina fraseriana</i> , <i>Eucalyptus cornuta</i> and <i>Eucalyptus megacarpa</i> on a range of dunes of different ages and in gullies and flats; tall shrubland of <i>Agonis flexuosa</i> with <i>Trymalium floribundum</i> or <i>Acacia saligna</i> on flats, low dunes and gullies; open to closed heaths dominated by selections from <i>Olearia axillaris</i> , <i>Spyridium globulosum</i> , <i>Acacia littorea</i> , <i>Rhagodia baccata</i> , <i>Phyllanthus calycinus</i> , <i>Pimelea ferruginea</i> , <i>Acacia cyclops</i> and <i>Acacia divergens</i> with some emergent <i>Agonis flexuosa</i> on a range of dunes of different ages and position; and sedgeland of <i>Lepidosperma</i> spp. on recent dunes and between the exposed granite rock on the coast in hyperhumid and perhumid zones.
32	Blackwood Plateau	Jarrah Uplands	Tall open, open and low open forest to woodland and open woodlands of <i>Eucalyptus marginata</i> - <i>Corymbia calophylla</i> with admixtures of <i>Allocasuarina fraseriana</i> , <i>Banksia grandis</i> , <i>Banksia attenuata</i> , <i>Banksia ilicifolia</i> , <i>Xylomelum occidentale</i> , <i>Nuytsia floribunda</i> , <i>Agonis flexuosa</i> and <i>Corymbia haematoxylon</i> on slopes, plains, rises, river terraces, lateritic uplands, the escarpment valleys dissecting the escarpment; low open woodland of <i>Melaleuca preissiana</i> - <i>Banksia littoralis</i> on depressions; and low open woodland of <i>Banksia attenuata</i> - <i>Nuytsia floribunda</i> - <i>Eucalyptus marginata</i> on low dunes in hyperhumid, perhumid and humid zones.
33	Blackwood Plateau	Karri Uplands	Tall open forest of <i>Eucalyptus diversicolor</i> - <i>Corymbia calophylla</i> with some <i>Eucalyptus marginata</i> subsp. <i>marginata</i> on undulating uplands in the perhumid zone.
34	Blackwood Plateau	Depressions / Swamps	Mixture of woodland to low forest of <i>Melaleuca raphiophylla</i> , open woodland of <i>Corymbia calophylla</i> with some <i>Eucalyptus patens</i> and <i>Eucalyptus megacarpa</i> , low open woodland of <i>Eucalyptus marginata</i> - <i>Corymbia calophylla</i> - <i>Allocasuarina fraseriana</i> - <i>Banksia ilicifolia</i> and low open woodland of <i>Melaleuca preissiana</i> - <i>Banksia littoralis</i> and tall shrubland of <i>Agonis</i> spp. or <i>Melaleuca incana</i> with some emergent <i>Eucalyptus marginata</i> , <i>Corymbia calophylla</i> and <i>Banksia littoralis</i> and closed heath of <i>Agonis</i> spp.on broad depressions in the perhumid and humid zones.
35	Blackwood Plateau	Valleys	Open forest to woodlands of <i>Corymbia calophylla</i> and <i>Eucalyptus marginata</i> on slopes with admixtures of <i>Eucalyptus patens</i> , <i>Eucalyptus rudis</i> and <i>Eucalyptus megacarpa</i> on lower slopes and terraces; Woodland of <i>Allocasuarina fraseriana</i> - <i>Nuytsia floribunda</i> - <i>Agonis flexuosa</i> - <i>Banksia attenuata</i> on slopes; woodlands and low woodlands in admixtures of <i>Eucalyptus rudis</i> , <i>Banksia littoralis</i> , <i>Melaleuca raphiophylla</i> , <i>Melaleuca preissiana</i> , <i>Agonis flexuosa</i> , <i>Hakea lasianthoides</i> on lower slopes and valley floors; tall shrubland of <i>Agonis linearifolia</i> on valley floors; woodland of <i>Eucalyptus rudis</i> - <i>Banksia seminuda</i> - <i>Melaleuca preissiana</i> - <i>Agonis flexuosa</i> and tall shrubland of <i>Agonis linearifolia</i> - <i>Callistachys lanceolata</i> along and fringing streams in hyperhumid, perhumid and humid zones.

Fauna Habitat ID	FDIS LAND SYSTEM	FDIS LANDSCAPE UNIT	Description
36	Margaret River Plateau	Jarrah Uplands	Open to tall open forest of <i>Eucalyptus marginata</i> - <i>Corymbia calophylla</i> and <i>Banksia grandis</i> on lateritic and undulating uplands; woodland to open forest of <i>Eucalyptus marginata</i> - <i>Corymbia calophylla</i> on escarpment; woodlands of <i>Corymbia calophylla</i> - <i>Eucalyptus marginata</i> with variously <i>Banksia ilicifolia</i> , <i>Agonis flexuosa</i> ; low woodlands of <i>Melaleuca preissiana</i> and <i>Banksia littoralis</i> ; closed heath of <i>Myrtaceae</i> - <i>Proteaceae</i> - <i>Papilionaceae</i> spp on rocky slopes in the hyperhumid, perhumid and humid zones.
37	Margaret River Plateau	Karri Uplands	Open forest of <i>Eucalyptus marginata</i> subsp. <i>marginata</i> - <i>Corymbia calophylla</i> - <i>Banksia grandis</i> with some <i>Eucalyptus diversicolor</i> on upland and slopes in hyperhumid and perhumid zones.
38	Margaret River Plateau	Jarrah Valleys	Tall open forest of <i>Corymbia calophylla</i> - <i>Agonis flexuosa</i> on flats and valleys; woodland of <i>Eucalyptus marginata</i> - <i>Corymbia calophylla</i> on slopes; low woodland of <i>Eucalyptus marginata</i> with some <i>Nuytsia floribunda</i> on deeply incised valleys and low woodland of <i>Melaleuca preissiana</i> - <i>Banksia littoralis</i> on depressions in the perhumid and humid zones.
39	Margaret River Plateau	Karri Valleys	Tall open and open forest of <i>Eucalyptus diversicolor</i> - <i>Corymbia calophylla</i> - <i>Allocasuarina decussata</i> - <i>Agonis flexuosa</i> on deeply incised valleys; mixture of open forest to woodland of <i>Eucalyptus diversicolor</i> - <i>Corymbia calophylla</i> and woodland of <i>Eucalyptus marginata</i> - <i>Corymbia calophylla</i> on slopes; tall open forest of <i>Eucalyptus diversicolor</i> - <i>Agonis flexuosa</i> - <i>Callistachys lanceolata</i> with some <i>Corymbia calophylla</i> on flats and valleys; mixture of open forest of <i>Eucalyptus diversicolor</i> - <i>Callistachys lanceolata</i> , woodland of <i>Eucalyptus patens</i> - <i>Corymbia calophylla</i> and woodland of <i>Eucalyptus rudis</i> - <i>Melaleuca raphiophylla</i> and low woodland of <i>Melaleuca preissiana</i> - <i>Banksia littoralis</i> on depressions in the hyperhumid, perhumid and humid zones.
40	Lewin Naturalist Coast	Jarrah	Not currently used - Jarrah embedded as a component in 41 and 42.
41	Lewin Naturalist Coast	Marri/Karri	Tall open forest of mixtures of <i>Corymbia calophylla</i> , <i>Eucalyptus diversicolor</i> , <i>Eucalyptus marginata</i> , <i>Eucalyptus cornuta</i> and <i>Agonis flexuosa</i> , open forest of <i>Corymbia calophylla</i> - <i>Eucalyptus marginata</i> and low woodland of <i>Agonis flexuosa</i> on slopes; Tall open forest of <i>Eucalyptus diversicolor</i> - <i>Corymbia calophylla</i> - <i>Agonis flexuosa</i> on karst areas; and tall open forest and open forest of <i>Corymbia calophylla</i> - <i>Eucalyptus marginata</i> - <i>Eucalyptus megacarpa</i> and tall open forest of <i>Eucalyptus diversicolor</i> - <i>Agonis flexuosa</i> on valley floors in the hyperhumid zone.
42	Lewin Naturalist Coast	Coast Heath	Mosaic of low woodland and woodland of <i>Corymbia calophylla</i> - <i>Eucalyptus marginata</i> with some <i>Banksia</i> spp., <i>Agonis flexuosa</i> and <i>Eucalyptus cornuta</i> , tall shrublands to closed heaths of <i>Agonis flexuosa</i> , <i>Acacia saligna</i> , <i>Spyridium globulosum</i> , <i>Olearia axillaris</i> , <i>Pimelea ferruginea</i> , <i>Melaleuca huegelii</i> and <i>Rhagodia baccata</i> associated with the calcareous dunes and sedgeland of <i>Cyperaceae</i> - <i>Restionaceae</i> spp. on depressions by coast in hyperhumid to humid zones.

Fauna Habitat ID	FDIS LAND SYSTEM	FDIS LANDSCAPE UNIT	Description
43	Scott Coastal Plain	Uplands	Low open forest and low woodland of <i>Eucalyptus marginata</i> - <i>Corymbia calophylla</i> - <i>Agonis flexuosa</i> with some <i>Eucalyptus patens</i> and <i>Banksia</i> spp. on low dunes grading into low woodland of <i>Banksia attenuata</i> - <i>Banksia ilicifolia</i> - <i>Nuytsia floribunda</i> - <i>Eucalyptus marginata</i> on dunes rising above the plain with low woodland of <i>Melaleuca preissiana</i> - <i>Banksia littoralis</i> on inter-dune depressions in hyperhumid and perhumid zones.
44	Scott Coastal Plain	Valleys / Swamps	Open forest to woodland of <i>Corymbia calophylla</i> with some <i>Banksia littoralis</i> - <i>Callistachys lanceolata</i> and woodland of <i>Melaleuca preissiana</i> near low lying drainage areas; mosaic of sedgeland of <i>Restionaceae</i> - <i>Cyperaceae</i> spp. and closed heath of <i>Myrtaceae</i> - <i>Proteaceae</i> spp. with occasional <i>Banksia occidentalis</i> , <i>Banksia ilicifolia</i> , <i>Melaleuca preissiana</i> and <i>Banksia littoralis</i> and tall shrubland of <i>Viminaria juncea</i> on flats and swampy depressions with stunted heaths of <i>Eucalyptus marginata</i> - <i>Banksia attenuata</i> - <i>Xylomelum occidentale</i> on low sandy rises in hyperhumid and perhumid zones.
45	Redmond	Uplands	Open forest to low woodland of <i>Eucalyptus marginata</i> , <i>Banksia attenuata</i> , <i>Allocasuarina fraseriana</i> , <i>Banksia grandis</i> and <i>Eucalyptus staeri</i> on broad undulating uplands and low hills; woodland of <i>Melaleuca preissiana</i> - <i>Nuytsia floribunda</i> on lower slopes in perhumid and humid zones.
46	Redmond	Valleys	Mosaic of open forest of <i>Eucalyptus marginata</i> - <i>Corymbia calophylla</i> - <i>Agonis flexuosa</i> with some <i>Eucalyptus diversicolor</i> - <i>Allocasuarina decussata</i> on narrow steeper valleys in sedimentary terrain; open forest of <i>Eucalyptus marginata</i> - <i>Corymbia calophylla</i> on slopes; woodland <i>Eucalyptus marginata</i> - <i>Banksia attenuata</i> - <i>Banksia ilicifolia</i> and <i>Banksia attenuata</i> - <i>Banksia grandis</i> - <i>Allocasuarina fraseriana</i> on mild slopes, of <i>Eucalyptus occidentalis</i> - <i>Melaleuca cuticularis</i> on lower slopes; woodland of <i>Eucalyptus megacarpa</i> and woodland of <i>Eucalyptus patens</i> on broad plains; low woodland of <i>Melaleuca preissiana</i> and <i>Eucalyptus occidentalis</i> on broad depressions with some <i>Eucalyptus marginata</i> subsp. <i>marginata</i> and <i>Allocasuarina fraseriana</i> on the fringes of broad depression; low woodland of <i>Eucalyptus staeri</i> - <i>Melaleuca preissiana</i> on valley floor; tall shrubland of <i>Myrtaceae</i> spp. and closed heath of <i>Agonis</i> spp., open to closed heath of <i>Myrtaceae</i> - <i>Proteaceae</i> spp and sedgeland of <i>Anarthria</i> - <i>Restionaceae</i> - <i>Cyperaceae</i> spp. on valley floors in the hyperhumid, perhumid and humid zones.
47	Unicup	Jarrah Uplands	Open forest of <i>Eucalyptus marginata</i> - <i>Corymbia calophylla</i> on slopes and woodland to low open forest of <i>Eucalyptus marginata</i> with some <i>Corymbia calophylla</i> on uplands in humid, subhumid and semiarid zones.
48	Unicup	Wandoo Uplands	Open forest of <i>Eucalyptus marginata</i> - <i>Corymbia calophylla</i> with some <i>Eucalyptus wandoo</i> on plains and terraces, woodland of <i>Eucalyptus wandoo</i> - <i>Eucalyptus marginata</i> - <i>Corymbia calophylla</i> on small laterite rises and woodland of <i>Eucalyptus wandoo</i> - <i>Corymbia calophylla</i> with some <i>Eucalyptus marginata</i> on slopes of low undulating hills in subhumid and semiarid zones.
49	Unicup	Jarrah Valleys	Low woodland of <i>Eucalyptus marginata</i> subsp. <i>marginata</i> - <i>Banksia ilicifolia</i> - <i>Nuytsia floribunda</i> on slopes and low woodland of <i>Melaleuca preissiana</i> - <i>Banksia littoralis</i> on lower slopes in humid and subhumid zones.

Fauna Habitat ID	FDIS LAND SYSTEM	FDIS LANDSCAPE UNIT	Description
50	Unicup	Wandoo Valleys	Mosaic of woodlands and open woodland of <i>Eucalyptus wandoo</i> , <i>Corymbia calophylla</i> , <i>Eucalyptus decipiens</i> , <i>Eucalyptus rudis</i> and <i>Eucalyptus astringens</i> on slopes; and woodland and open woodland of <i>Eucalyptus occidentalis</i> , <i>Eucalyptus rudis</i> and <i>Eucalyptus decipiens</i> on valley floors and in broad depressions; woodland of <i>Eucalyptus rudis</i> - <i>Eucalyptus occidentalis</i> and woodland of <i>Eucalyptus wandoo</i> - <i>Eucalyptus decipiens</i> on broad flats across the humid, subhumid and semiarid zones.
51	Unicup	Scrubland	Mosaic of woodland of <i>Eucalyptus rudis</i> - <i>Eucalyptus occidentalis</i> , and woodland of <i>Eucalyptus wandoo</i> - <i>Eucalyptus decipiens</i> , and low woodland of <i>Melaleuca cuticularis</i> with some <i>Banksia littoralis</i> on broad flats, and of low open woodland of <i>Melaleuca cuticularis</i> , tall shrubland of <i>Melaleuca densa</i> with occasional <i>Eucalyptus rudis</i> on valley floors, and tall shrubland of <i>Melaleuca</i> spp. with occasional <i>Eucalyptus rudis</i> , <i>Eucalyptus decipiens</i> and <i>Melaleuca cuticularis</i> on broad swampy depressions in the humid, subhumid and semiarid zones.
52	Swan Coastal Plain	Coastal Dunes	Mosaic of medium forest to open woodland of <i>Euc. marginata</i> and <i>Corymbia calophylla</i> , tall woodlands of <i>Euc. gomphocephala</i> , low banksia and <i>Agonis flexuosa</i> woodlands to heaths of salt tolerant species on young coastal dunes; to low forest and low woodland of <i>Melaleuca</i> species, ti-tree heaths, restionaceous and cyperaceous swamps and flats, salt lakes, lagoons and claypans with samphires in low lying interdune swales in the humid zone.
53	Darling Plateau	Wandoo Uplands South	Open forest to woodland comprising various mixtures of <i>Eucalyptus wandoo</i> , <i>Eucalyptus marginata</i> , <i>Corymbia calophylla</i> and occasionally <i>Eucalyptus astringens</i> (on or near breakaways) on uplands over a range of substorey species including <i>Dryandra sessilis</i> , <i>Banksia</i> spp., <i>Hakea prostrata</i> and <i>Acacia microbotrya</i> ; and open heath of <i>Myrtaceae</i> - <i>Proteaceae</i> spp. and lithic complex on shallow soils near granite outcrops in subhumid semiarid and arid zones.
54	Darling Plateau	Wandoo Valleys South	Woodlands to open woodlands and open forests composed of an admixture of species including <i>Eucalyptus wandoo</i> , <i>Eucalyptus marginata</i> , <i>Corymbia calophylla</i> , <i>Eucalyptus patens</i> , <i>Eucalyptus cornuta</i> , <i>Allocasuarina huegeliana</i> , and <i>Acacia acuminata</i> over <i>Hakea prostrata</i> , <i>Dryandra sessilis</i> , <i>Banksia attenuata</i> and <i>Acacia saligna</i> on slopes; woodland of <i>Eucalyptus astringens</i> - <i>Eucalyptus wandoo</i> on breakaways; open woodland of <i>Allocasuarina huegeliana</i> - <i>Acacia acuminata</i> occasional <i>Eucalyptus rudi</i> , <i>Eucalyptus wandoo</i> and open heath on variable slopes and shallow soils near granite outcrops; stands of <i>Eucalyptus drummondii</i> (northern) and <i>Eucalyptus decipiens</i> (southern) on lower slopes; woodland of <i>Banksia prionotes</i> with occasional <i>Corymbia calophylla</i> and <i>Eucalyptus rudis</i> over <i>Acacia acuminata</i> on sandy lunettes, woodland and open forest of <i>Eucalyptus rudis</i> , <i>Eucalyptus wandoo</i> , <i>Eucalyptus patens</i> , <i>Melaleuca raphiophylla</i> , <i>Melaleuca preissiana</i> on footslopes and valley floors; low forest of <i>Casuarina obesa</i> and shrubland of <i>Melaleuca</i> spp. on broad valley floors, tall shrublands of <i>Melaleuca viminea</i> and <i>Hakea prostrata</i> and sedgelands of <i>Baumea</i> spp. and heaths on broad flats and on valley floors in the humid, subhumid, semiarid and arid zones.







































# Fauna Distribution Information System

Fauna Habitat types derived from Mattiske and Havel (1999) Pre 1750 Vegetation Complexes.

Fauna Distribution Information System (FDIS)  
Version: 12 June 2005

## Legend

-  Sealed Roads
-  Major Rivers
-  1 Darling Plateau - Jarrah Uplands North
-  2 Darling Plateau - Jarrah Uplands East
-  3 Darling Plateau - Jarrah Uplands South
-  4 Darling Plateau - Jarrah Uplands South East
-  5 Darling Plateau - Karri Uplands
-  6 Darling Plateau - Wandoo Uplands North
-  7 Darling Plateau - Powder Bark Uplands
-  8 Darling Plateau - Scarp
-  10 Darling Plateau - Depressions / Swamps South
-  11 Darling Plateau - Depressions / Swamps East
-  12 Darling Plateau - Depressions / Swamps South East
-  13 Darling Plateau - Jarrah Valleys North
-  14 Darling Plateau - Jarrah Valleys East
-  15 Darling Plateau - Jarrah Valleys South
-  16 Darling Plateau - Jarrah Valleys South East
-  17 Darling Plateau - Karri Valleys
-  18 Darling Plateau - Wandoo Valleys North
-  19 Darling Plateau - Powder Bark Wandoo Valleys
-  20 Darling Plateau - Granite Outcrops
-  21 Various - Estuaries / Open Water
-  22 Collie Plain - Uplands
-  23 Collie Plain - Depressions / Swamps
-  24 Dandaragan Plateau - Uplands
-  25 Dandaragan Plateau - Valleys
-  26 Swan Coastal Plain - Uplands
-  27 Swan Coastal Plain - Valleys
-  28 Southern Plains - Jarrah
-  29 Southern Plains - Karri
-  30 Southern Plains - Heath / Sedgeland
-  31 South Coast Dunes - South Coast Dunes
-  32 Blackwood Plateau - Jarrah Uplands
-  33 Blackwood Plateau - Karri Uplands
-  34 Blackwood Plateau - Depressions / Swamps
-  35 Blackwood Plateau - Valleys
-  36 Margaret River Plateau - Jarrah Uplands
-  37 Margaret River Plateau - Karri Uplands
-  38 Margaret River Plateau - Jarrah Valleys
-  39 Margaret River Plateau - Karri Valleys
-  41 Lewin Naturalist Coast - Karri
-  42 Lewin Naturalist Coast - Coast Heath
-  43 Scott Coastal Plain - Uplands
-  44 Scott Coastal Plain - Valleys / Swamps
-  45 Redmond - Uplands
-  46 Redmond - Valleys
-  47 Unicup - Jarrah Uplands
-  48 Unicup - Wandoo Uplands
-  49 Unicup - Jarrah Valleys
-  50 Unicup - Wandoo Valleys
-  51 Unicup - Scrubland
-  52 Swan Coastal Plain - Coastal Dunes
-  53 Darling Plateau - Wandoo Uplands South
-  54 Darling Plateau - Wandoo Valleys South



## Scale

0 20 40 60 80 100 Kilometers

