BIOLOGICAL SURVEY OF

BARLEE RANGE NATURE RESERVE

Project (N92/5)

Progress Report 7

Prepared by: Stephen van Leeuwen

Date:

August 1994

TITLE OF PROJECT:

Biological survey of the Barlee Range Nature Reserve (A ↑26808)

AGENCY:

Western Australian Department of Conservation and Land Management (CALM) (undertaken jointly by the Science and Information Division and the Pilbara Regional office).

PROJECT SUPERVISOR:

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PROJECT OFFICERS:

- Stephen van Leeuwen
 Research Scientist
- 2. Peter Kendrick Regional Ecologist

SCOPE OF PROPOSAL:

- Select sites that represent the array of communities typical of the Barlee Range.
- b. At all sites establish and sample permanent quadrats recording landform unit, species composition, habitat type and vegetation associations present. Permanent quadrats will enable, through long-term monitoring, the documentation of change over time and after environmental perturbations.
- c. Analyse data sets for each biotic group sampled (flora/vegetation, mammals, birds, reptiles, amphibians and ants) discussing patterns of community structure, species richness and distribution. Prepare descriptions of vegetation associations and landform units present and map their distribution within the reserve.
- d. Publish results of the survey and subsequent analyses. Discuss implications of these results with reference to the representativeness of the nature reserve and its nature conservation values. Make recommendations for management where appropriate.

WORK COMPLETED

Over the past three months one field trip to the Barlee Range Nature Reserve was completed as part of this project. Concurrently, laboratory and office work continued on the identification, databasing and incorporation of specimens into herbaria and museums.

The one field trip undertaken between the 9th and 24th of June, involved the systematic sampling of all permanent sample sites and the random opportunistic sampling of other areas within the reserve. For example, an additional four permanently marked vegetation quadrats were established and sampled, and random opportunistic sampling of the flora occurred at another 52 sites within the reserve. Numerous flora and fauna specimens were collected, including many taxa which were new records for the reserve. Interesting observations were the recognition of an active Pebble-mound mouse mound (*Pseudomys chapmannii*), the identification of a significant vertebrate sub-fossil deposit and the collection of several typically central Pilbara and/or Kimberley plant species (*Gastrolobium grandiflorum, Acacia cowleana, Vallisneria spiralis*). The success of the field trip was enhanced by the collection of several flowering specimens of a novel species of *Wurmbea*, which will shortly be described, and the trapping of two specimens of the Long-tailed Dunnart (*Pseudomys longicaudata*), a species listed as 'Reserve' fauna on CALM's Specially Protected Fauna list.

Progress on this project with relevance to each of the biotic groups being examined is outlined in the following sections.

Flora and Vegetation

A total of 281 plant species have so far been recorded in the field, however, this number will increase upon identification and processing of specimens collected during the June field trip. Appendix One provides a list of the species recorded within the reserve. This list is a compilation of the species collected in the reserve during this project (252 taxa) and those collected by R.D. Royce in 1961.

Species of interest collected and recorded to data include:

Wurmbea sp. - a novel species apparently restricted to the Barlee Range where it has been recorded from three localities. This species will shortly be described in the Western Australian Herbariums taxonomic journal 'Nuytsia'. This species was discovered as a result of this project.

Vallisneria spiralis - An aquatic species inhabiting deep permanent pools in some of the shaded watercourses found in the reserve. This species is predominantly restricted in the Kimberley Region.

Tecticornia verrucosa - A disjunctly distributed species inhabiting claypans in remote arid regions of northern Australia.

Indigofera sp. - An undescribed taxon which, until this project, appeared to be restricted to hilltops in the Hamersley Range.

Mammals

A total of 22 indigenous and five introduced mammal species have been recorded from the reserve (Appendix two). This list is only temporary as identifications are only tentative and require confirmation by the Western Australian Museum.

The most interesting mammal record is that of the Pebble-mound mouse which has an extant distribution that is principally confined to the Hamersley Range and Oakover Valley physiogeographic districts. This taxon is listed as 'a species which is rare or likely to become extinct' on the Schedule of Specially

Protected Fauna. Another interesting mammal record is that obtained for the Long-tailed Dunnart. This species is listed on CALM's reserve fauna list as it is currently not considered threatened, however has been determined to be at risk of becoming threatened if impacts on known populations have a deleterious effect. This species has previously been recorded in the Hamersley Range, at Mt Augustus and in the Gibson Desert where it is found inhabiting steep rocky slopes and breakaway habitats.

The identification of a significant sub-fossil vertebrate deposit will provide valuable material for the Western Australian Museum and provide an insight into the evolution and extinction of the fauna of north western Australia. A sample of this material collected from the reserve in August 1993 was determined to contain mammalian material of the following taxa; *Chalinolobus gouldii* (Gould's Wattled Bat), *Notomys longicaudatus* (Long-tailed Hopping-mouse), *Pseudomy nanus/fieldi* (Western Chestnut - Alice Springs Mouse), *Leporillus apicalis* (Lesser Stick-nest Rat) and *Rattus tunneyi* (Pale Field-rat). Only two of these species, the bat and rat, are extant in the region, while the others are either presumed extinct or occur in the Kimbereys.

Birds

A total of 101 bird species have so far been recorded from the reserve (Appendix Three). During the most recent trip an additional nine species were added to the reserve's list. The new species included the Rufous Night Heron, Maned Duck, Spotted Harrier, Elegant Parrot, Sacred Kingfisher, White-fronted Honeyeater, Australian Magpie, Yellow White-eye and Eurasian Coot. The most interesting species to be added to the species list is the Elegant Parrot. The record for this reserve represents a significant range extension for the species which is primarily confined to the south west of Western Australia, not extending north of latitude 30° S. The record for the Yellow White-eye is also interesting as this species is primarily restricted to coastal mangrove forests of northern Australia.

Reptile and Amphibians

Appendix Four provides a list of the 63 species of reptiles recorded for the reserve. The most interesting species observed so far has been the Olive Python (*Morelia olivacea barroni*) which is considered to be rare and is listed as a Schedule 1 species (rare or likely to become extinct) on CALM's Specially Protected Fauna list. It is anticipated that the number of reptiles recorded in the reserve will significantly increase following the next sampling trip which is scheduled for November.

Five frog species have been collected from the reserve (Appendix Five). All species represent typical arid zone assemblages. The recollection of *Pseudophryne douglasi* from the 'Type' locality is worthy of note. This species has only been collected on three occasions from three separate locations in the Pilbara - Ashburton region. This species is currently under consideration for addition to the reserve fauna list on the Schedule of Specially Protected Fauna.

Invertebrates

No sorting of invertebrate samples collected through pitfall trapping has been undertaken, however it is anticipated that this will commence during the coming summer months.

During the preceding field trip an attempt was made to document the mollusc fauna of the reserve which resulted in the collection of eleven different taxa. Five of the species were representative of aquatic habitats and are widely distributed in pools throughout the region. The remaining specimens represented six taxa of land snails, three of which appear to be undescribed scientifically. These land snails were common in certain parts of the reserve. notably on or in close proximity to dolerite outcrops. The major local family, the Camaenidae, is represented by three species, two within the genus Rhagada, of which two appear to be undescribed. One species in the family Orthalicidae (Bothriembryon sp.), which appears to have close affinities with a Millstream -Hamersley Range taxon, also appears to be undescribed. The identification of a Pupoides taxon, which also appears to be undescribed, was not surprising as it is a widely distributed taxonomic group in the Pilbara - Shark Bay region. The final species recorded was Eremopeas interioris which has previously been collected from the Millstream - Hamersley Range region where it inhabits refugial sites such as deeply fractured and cavernous rocks.

The next field trip to the reserve will be undertaken in mid-November and will be for the specific purpose of collecting fauna specimens. Particular emphasis will be directed towards sampling the reptile and bat fauna. The next flora sampling trip to the reserve is not planned until after sufficient rains and will be designed to facilitate the sampling of annual plant assemblages within the reserve. Between field trips, work will continue on the identification, databasing and incorporation of specimens collected from within the reserve.

EXPENDITURE TO DATE

An expenditure statement from the Acting Administration Assistant in the Pilbara Regional Office is attached as Appendix Six. As of the 28th of August a total of \$12 506 or 62% of the \$20 000 budget had been consumed. Expenditure over the past few months has been \$831, of which \$409 was attributed to expenditure on materials and \$422 to expenditure on plant. A breakdown of budget expenditure between April and the current progress report is provided in Table 1.

To date, 76% of NEGP fund expenditure has been directed towards the purchase of materials and equipment required to undertake the survey. The remaining 24% has been spent on vehicle hire changes and running fees.

A cost overrun in the budget for this project is not anticipated.

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Table 1 Breakdown of expenditure of NEGP funds for the Biological Survey of Barlee Range Nature Reserve project for the period May - August 1994.

Materials & Equipment

Month	Item	Amount (\$)	Account Balance (\$)
May 94	Field Equipment	51	51
June 94	Plant Running Fee	312	363
July 94	Herbarium Consumables	134	497
July 94	Field Equipment	200	697
July 94	Plant Standing Fee	110	807
Aug 94	Field Equipment	24	831

TOTAL EXPENDITURE (5/94 - 8/94)

Item	Account Balance (\$)
Materials and equipment	409
Plant and vehicle running	422
<u>Total</u>	<u>831</u>

TOTAL PROJECT EXPENDITURE

Item	Account Balance (\$)
Materials and equipment	9 556
Plant and vehicle running	2 950
<u>Total</u>	<u>12 506</u>

APPENDIX ONE

Barlee Range Nature Reserve

Flora List

FLORA LIST

Adiantaceae

Cheilanthes Cheilanthes

brownii

sieberi

subsp. sieberi

Typhaceae

Typha

domingensis

Potamogetonaceae

Potamogeton

tricarinatus

Poaceae

Aristida Aristida

Cenchrus Cymbopogon Cymbopogon Digitaria

Enneapogon

Enneapogon Eragrostis Eragrostis Eragrostis Eriachne Eriachne

Eriachne Eriachne

Eulalia Genus Paspalidium Seteria

Triodia Triodia

burbidgeae

contorta ciliaris ambiguus

bombycinus brownii

caerulescens

sp. cumingii dielsii eriopoda aristidea dominii mucronata

mucronata

fulva sp. rarum verticillata pungens sp.

Cyperaceae

Cyperus Cyperus cunninghamii

iria

Cyperus Eleocharis vaginatus geniculata

Asphodelaceae

Bulbine

semibarbata

Colchicaceae

Wurmbea

sp.

Moraceae

Ficus Ficus platypoda

platypoda

var.

var.

minor

var.

platypoda

desertorum

Proteaceae

Grevillea Hakea

stenobotrya suberea

FLORA LIST (cont.)

Santalaceae

Exocarpus aphyllus Santalum lanceolatum

Loranthaceae

Amyema fitzgeraldii
Amyema gibberulum var. gibberulum

Amyema hillianum
Lysiana aff. casuarinae
Lysiana causuarinae

Chenopodiaceae

Atriplex codonocarpa

Chenopodium cristsatum

ChenopodiummelanocarpumformaleucocarpumDysphaniaglomuliferasubsp.eremaeaDysphaniarhadinostachyasubsp.inflata

Enchyleana tomentosa Maireana ? villosa Maireana carnosa Maireana georgei Maireana melanocoma Maireana planifolia Maireana thesioides Maireana triptera Rhagodia eremaea Salsola kali

Sclerolaena beaugleholei
Sclerolaena cuneata
Sclerolaena densiflora
Sclerolaena eriacantha
Sclerostegia disarticulata
Tecticornia verrucosa

Amaranthaceae

Amaranthus mitchellii
Amaranthus palldiflorus

Amaranthus sp

Gomphrena cunninghamii
Ptilotus aervoides
Ptilotus calostachyus

Ptilotus exaltatus Ptilotus fusiformis

Ptilotus helipteroides
Ptilotus obovatus
Ptilotus sp

Nyctaginaceae

Boerhavia coccinea

200///41/4

calostachyus

fusiformis

var.

var.

FLORA LIST (cont.)

Boerhavia

schomburgkiana

Commicarpus

australis

Gyrostemonaceae

Codonocarpus

cotinifolius

Aizoaceae

Mollugo Trianthema Zaleya

molluginea glossostigma galericulata

Molluginaceae

Glinus

oppositifolius

Portulacaceae

Calandrinia

polyandra

Caryophyllaceae

Polycarpaea

longiflora

Lauraceae

Cassytha

? filiformis

Papaveraceae

Argemone

ochroleuca

Capparaceae

Capparis Cleome

spinosa viscosa

var.

nummularia

Brassicaceae

Lepidium

biplicatum

Lepidium

muelleriferdinandii

oxytrichum

Lepidium Lepidium

pedicellosum

Lepidium

platypetallum

Lepidium Stenopetalum

anfractum

sp.

Surianaceae

Stylobasium

spathulatum

Mimosaceae

Acacia

? arida

Acacia

? coolgardiensis

subsp.

"effusa"

Acacia

acradenia

ancistrocarpa

var.

adoxa

Acacia Acacia

adoxa

var.

aneura

Acacia

aneura

Acacia Acacia

arida bivenosa

Acacia Acacia citrinoviridis coriacea

subsp.

pendens

FLORA LIST (cont.)

Acacia farnesiana Acacia kempeana Acacia ligulata Acacia maitlandii Acacia marramamba Acacia pruinocarpa Acacia pruinocarpa Acacia pyrifolia Acacia retivenea

Acaciaretiveneasubsp.clandestinaAcaciasclerospermasubsp.sclerosperma

Acacia sp

Acacia sp. nov. "barlee range 1"

Acacia stowardii
Acacia synchronicia
Acacia tetragonophylla
Acacia trachycarpa
Acacia victoriae
Acacia wanyu
Acacia xiphophylla

Caesalpiniaceae

Petalostylis labicheoides Senna artemisiodes Senna artemisioides subsp. ? symonii Senna artemisioides subsp. helmsii Senna artemisioides subsp. oligophylla Senna artemisioides subsp. stricta Senna cardiosperma subsp. pilocarina Senna glutinosa "unsorted" subsp. Senna glutinosa aff. x luerssenii subsp. Senna glutinosa subsp. chatelainiana Senna glutinosa pruinosa subsp. Senna glutinosa subsp. x luerssenii

Senna notabilis Senna sp. Senna venusta

Papilionaceae

Crotalaria medicaginea
Crotalaria novae-hollandiae subsp.

Glycine canescens
Gompholobium polyzygum
Indigofera monophylla

Indigofera sp.

Isotropis atropurpurea
Lotus cruentus
Psoralea leucantha

novae-hollandiae

FLORA LIST (cont.)

Rhynchosia minima Sesbania cannabina Sesbania formosa Swainsona forrestii Swainsona incei Swainsona kingii Swainsona leeana Templetonia egena Tephrosia aff. supina Tephrosia clementii Tephrosia rosea Tephrosia rosea

var. glabrior

Tephrosia
Geraniaceae

Erodium aureum

Zygophyllaceae

Tribulus macrocarpus
Tribulus platypterus
Tribulus terrestris
Zygophyllum iodocarpum

Zygophyllum sp

Euphorbiaceae

Adriana tomentosa Euphorbia careyi Euphorbia drummondii

Euphorbiatannensissubsp.eremophilaPhyllanthusmaderaspatensisvar.angustifolius

uniovulata

Stackhousiaceae

Stackhousia intermedia

Sapindaceae

Dodonaea pachyneura Dodonaea petiolaris

Tiliaceae

Corchorus crassifolius Corchorus walcottii

Triumfetta aff. appendiculata
Triumfetta chaetocarpa

Triumfetta sp.

Malvaceae

Abutilon sp.

Gossypium robinsonii

Hibiscus s

Lawrencia densiflora

Sida sp.

FLORA LIST (cont.)

Sterculiaceae

Keraudrenia Rulingea

integrifolia

Rulingea

kempeana rotundifolia

Waltheria

indica

Frankeniaceae

Frankenia

cordata

Violaceae

Hybanthus

aurantiacus

Lythraceae

Ammannia

baccifera

Myrtaceae

Eucalyptus

ferriticola

Eucalyptus

leucophloia

Melaleuca Melaleuca

argentea sp.

Haloragaceae

Haloragis

gossei

Myriophyllum

verrucosum

Apiaceae

Trachymene

aff. glaucifolia

Oleaceae

Jasminum

didymum

subsp.

lineare

Asclepiadaceae

Cynanchum

sp. nov. "sp 1 - marandoo"

Genus

sp

Rhycharrhena

linearis

Sarcostemma

viminale

australe subps.

Convolvulaceae

Bonamia

rosea

Evolvulus

alsionoides

Ipomoea

muelleri

Porana

commixta

Boraginaceae

Halgania

sp. nov. "aff solanacea"

Heliotropium

aff. undulatum

Heliotropium

curassavicum

Heliotropium

heteranthum

Trichodesma

zeylanicum

Verbenaceae

Clerodendrum

floribundum

var.

angustifolium

FLORA LIST (cont.)

subsp.

occidentalis

Lamiaceae

Plectranthus Prostanthera intraterraneus

albiflora

Solanaceae

Datura Nicotiana leichhardtii benthamiana

occidentalis

Solanum Solanum Solanum

Nicotiana

? sturtianum diversiflorum

lasiophyllum

Solanum sp.

Scrophulariaceae

Mimulus Peplidium Stemodia gracilis sp. grossa

Acanthaceae

Dipteracanthus

sp.

Myoporaceae

Eremophila
Eremophila
Eremophila
Eremophila
Eremophila
Eremophila
Eremophila

"phyllopoda"
cuneifolia
exilifolia
forrestii
fraseri
latrobei
longifolia
sp

Rubiaceae

Eremophila

Canthium Canthium Oldenlandia latifolium lineare crouchiana

Cucurbitaceae

Cucumis

melo

Mukia

maderaspatana

Lobeliaceae

Lobelia

heterophylla

Goodeniaceae

Dampiera Goodenia candicans forrestii

Goodenia

scaevolina

subsp.

stobbisiana

Goodenia

sp.

Goodenia Goodenia stobbsiana tenuiloba

Scaevola

sp.

FLORA LIST (cont.)

Scaevola

spinescens

Stylidiaceae

Stylidium

alsinoides

Asteraceae

Actinobole oldfieldiana
Angianthus ? milnei
Angianthus milnei
Bidens bipinnata
Brachycome ciliocarpa
Calocephalus knappii

Calocephalus sp.

Calocephalus sp. "aromatic" {pilbara - deserts}

Calotis hispidula
Calotis plumulifera
Centipeda minima

Decazesia hecatocephala Gnephosis arachnoides brevifolia Gnephosis Helipterum forrestii Olearia xerophila Pluchea rubellifolra sphacelatum Pterocaulon Rhodanthe ? margarethae

Rhodanthe frenchii Rhodanthe maryonii Rhodanthe propinqua Rhodanthe stricta Schoenia ayersii Senecio glossanthus oleraceus Sonchus Streptoglossa adscendens Streptoglossa bubakii Streptoglossa cylindriceps

APPENDIX TWO

Barlee Range Nature Reserve

Mammal List

MAMMAL LIST

Tachyglossidae

Tachyglossus aculeatus

Short-beaked Echidna

Dasyurids

Ningaui sp. Planigale sp.

Dasykaluta rosamondae Sminthopsis longicaudata Ningaui timealeyi

Sminthopsis macroura

Little Red Antechinus

Long-tailed Dunnart Pilbara Ningaui

Stripe-faced Dunnart

Macropodidae

Petrogale sp.

Macropus robustus erubescens

Wallaroo

Emballonuridae

Taphozous sp.

Taphozous georgianus

Common Sheathtail-bat

Molossidae

Chaerophon jobensis

Nortern Mastiff-bat

Vespertilionidae

Eptesicus finlaysoni

Genus sp.

Chalinolobus gouldii

Gould's Wattled Bat

Muridae

Pseudomys sp.

Zyzomys argurus

Pseudomys delicatulus delicatulus

Mus musculus

Notomys alexis

Common Rock-rat

Delicate Mouse

House Mouse

Pseudomys chapmani

Pseudomys hermannsburgensis

Pebble-mound Mouse

Sandy Inland Mouse Spinifex Hopping-mouse

Leporidae

Oryctolagus cuniculus

Rabbit

Canidae

Canis familiaris dingo

Dingo

Felidae

Felis catus

Feral Cat

Equidae

Equus asinus

Donkey

Bovidae

Bof torus

European Beef Cattle

APPENDIX THREE

Barlee Range Nature Reserve

Bird List

BIRD LIST

Dromaiidae

Dromaius novaehollandiae

Emu

Podicipedidae

Tachybaptus novaehollandiae

Australian Grebe

Anhingidae

Anhinga melanogaster

Darter

Phalacrodoracidae

Phalacrocorax melanoleucos

Little Pied Cormorant

Ardeidae

Ardea novaehollandiae

Ardea pacifica

Pacific Heron

White-faced Heron

Nycticorax caledonicus

Rufous Night Heron

Anatidae

Anas gibberifrons

Anas superciliosa Chenonetta jubata Pacific Black Duck

Maned Duck

Grey Teal

Accipitridae

Accipeter fasciatus

Accipiter cirrhocephalus

Hieraaetus morphnoides

Aquila audax

Circus assimilis

Wedged-tailed Eagle

Brown Goshawk

Collared Sparrowhawk

Spotted Harrier

Little Eagle

Falconidae

Falco berigora

Falco cenchroides

Falco longipennis

Falco peregrinus

Australian Hobby

Australian Kestrel

Brown Falcon

Peregrine Falcon

Turnicidae

Turnix velox

Little Button-quail

Otididae

Ardeotis australis

Australian Bustard

Burhinidae

Burhinus grallarinus

Bush Thick-knee

Charadriidae

Charadrius melanops

Black-fronted Plover

Columbidae

Geopelia cuneata

Geopelia placida

Ocyphaps lophotes

Diamond Dove

Peaceful Dove

Crested Pigeon

BIRD LIST (cont.)

Petrophassa plumifera

Spinifex Pigeon

Phaps chalcoptera

Common Bronzewing

Cacatuidae

Cacatua roseicapilla

Galah

Cacatua sanguinea

Little Corella

Platycercidae

Barnardius zonarius

Port Lincoln Ringneck

Melopsittacus undulatus Neophema bourkii Budgerigar

Neophema elegans Nymphicus hollandicus Bourke's Parrot Elegant Parrot

Deembetus verius

Cockatiel

Psephotus varius

Mulga Parrot

Cuculidae

Chrysococcyx basalis

Horsfield's Bronze-cuckoo

Cuculus pallidus

Pallid Cuckoo

Strigidae

Ninox novaeseelandiae

Southern Boobook

Podargidae

Podargus strigoides

Tawny Frogmouth

Aegothelidae

Aegotheles cristatus

Australian Owlet-nightjar

Caprimulgidae

Caprimulgus guttatus

Spotted Nightjar

Alcedinidae

Dacelo leachii Halcyon pyrrhopygia

Blue-winged Kookaburra Red-backed Kingfisher

Sacred Kingfisher

Meropidae

Merops ornatus

Halcyon sancta

Rainbow Bee-Eater

Hirundinidae

Cecropis ariel
Cecropis nigricans

Fairy Martin

Tree Martin

Motacillidae

Anthus novaeseelandiae

Richard's Pipit

Campephagidae

Coracina novaehollandiae subpallida

Black-faced Cuckooshrike

Lalage sueurii

White-winged Triller

Muscicapidae

Colluricincla harmonica rufiventris

Grey Shrike-thrush

BIRD LIST (cont.)

Melanodryas cucullata Oreoica gutturalis Pachycepala rufiventris Petrocica goodenovii Rhipidura fuliginosa

Rhipidura leucophrys Orthonychidae

Cinclosoma cinnamomeum

Timaliidae

Pomatostomus superciliosus Pomatostomus temporalis rubeculus

Sylviidae

Acrocephalus stentoreus Cinclorhamphus mathewsi

Eremiornis carteri

Maluridae

Amytornis striatus Malurus lamberti assimilis Malurus leucopterus leuconotus

Stipiturus ruficeps

Acanthizidae

Acanthiza chrysorrhoa Acanthiza robustirostris

Acanthiza sp.

Acanthiza uropygialis

Gerygone fusca Sericornis brunneus

Smicrornis brevirostris

Neosittidae

Daphoenositta chrysoptera pileata

Meliphagidae

Acanthagenys rufogularis Certhionyx variegatus

Conopophila whitei

Lichenostomus keartlandi Lichenostomus penicillata Lichenostomus virescens

Lichmera indistincta Manorina flavigula

Hooded Robin

Crested Bellbird **Rufous Whistler**

Red-capped Robin

Grey Fantail Willie Wagtail

Cinnamon Quailthrush

White-browed Babbler

Grey-crowned Babbler

Clamorous Reed-Warbler

Rufous Songlark

Spinifexbird

Striated Grasswren

Variegated Fairy-wren White-winged Fairy-wren Rufous-crowned Emu-wren

Yellow-rumped Thornbill Slaty-backed Thornbill

Thornbill sp.

Chestnut-rumped Thornbill

Western Gerygone

Redthroat

Weebill

Varied Sittella

Spiny-cheeked Honeyeater

Pied Honeyeater **Grey Honeyeater**

Grey-headed Honeyeater

White-plumed Honeyeater

Singing Honeyeater **Brown Honeyeater** Yellow-throated Miner

BIRD LIST (cont.)

Phylidonyris albifrons

White-fronted Honeyeater

Ephthianuridae

Ephthianura tricolor

Crimson Chat

Dicaeidae

Dicaeum hirundinaceum

Mistletoebird

Pardalotidae

Pardalotus rubricatus

Red-browed Pardalote

Ploceidae

Emblema picta Poephila guttata Painted Firetail Zebra Finch

Paradisaeidae

Chlamydera maculata

Spotted Bowerbird

Grallinidae

Grallina cyanoleuca

Australian Magpie-lark

Black-faced Woodswallow

Artamidae

Artamus cinereus Artamus minor

Little Woodswallow Masked Woodswallow

Artamus personatus

Cracticidae

Cracticus nigrogularis Cracticus torqualtus

Gymnorhina tibicen

Pied Butcherbird **Grey Butcherbird**

Australian Magpie

Corvidae

Corvus sp.

Little Crow or Torresian Crow

Zosteropidae

Zosterops lutea

Yellow White-eye

Rallidae

Fulica atra

Eurasian Coot

APPENDIX FOUR

Barlee Range Nature Reserve

Reptile List

REPTILE LIST

Agamidae

Ctenophorus caudicinctus mensarum

Ctenophorus caudicinctus subsp.

Ctenophorus isolepis subsp.

Ctenophorus sp.

Gemmatophora longirostris

Pogona minor subsp.

Ctenophorus isolepis isolepis

Ctenophorus caudicinctus caudicinctus

Ctenophorus reticulatus

Military Dragon

Ring-tailed Dragon

Western Netted Dragon

Boidae

Morelia olivacea barroni

Olive Python

Elapidae

Vermicella sp.

Vermicella bertholdi

Furina ornata

Vermicella approximans

Jan's Banded Snake

Moon Snake

Northwestern Shovel-nosed Snake

Gekkonidae

Diplodactylus jeanae

Diplodactylus sp.

Diplodactylus stenodactylus

Diplodactylus strophurus

Gehyra sp.

Heteronotia binoei

Heteronotia spelea

Diplodactylus elderi

Gehyra punctata

Gehyra variegata

Bynoe's Gecko

Desert Cave Gecko

Jewelled Gecko

Spotted Dtella

Tree Dtella

Pygopodidae

Delma butleri

Delma pax

Lialis burtonis

Burton's Snake-lizard

Scincidae

Carlia munda

Cryptoblepharus plagiocephalus

Cryptoblepharus sp.

Ctenotus duricola

Ctenotus hanloni

Ctenotus pantherinus ocellifer

Ctenotus pantherinus subsp.

REPTILE (cont.)

Ctenotus rutilans

Ctenotus saxatilis

Ctenotus schomburgkii

Ctenotus sp.

Cycodomorphus branchialis

Lerista bipes

Lerista flammicauda

Lerista macropisthopus fusiciceps

Lerista muelleri

Lerista nichollsi

Lerista nichollsi petersoni

Menetia greyii

Menetia sp.

Morethia ruficauda exquisita

Morethia ruficauda ruficauda

Morethia ruficauda subsp.

Notoscincus ornatus subsp.

Notoscincus sp.

Omolepida branchialis

Omolepida sp.

Proablepharus reginae

Tiliqua multifasciata

Centralian Blue-tongued Lizard

Typhlopidae

Ramphotyphlops hamatus

Varanidae

Varanus eremius

Varanus panoptes rubidus

Varanus tristis tristis

Varanus gouldii

Varanus giganteus Varanus acanthurus Gould's Goanna or Sand Monitor

Perentie

Ridge-tailed Monitor

APPENDIX FIVE

Barlee Range Nature Reserve

Amphibian List

AMPHIBIAN LIST

Leptodactylidae

Neobatrachus sp.

Pseudophryne douglasi

Neobatrachus centralis

Trilling Frog

Hylidae

Cyclorana sp.

Litoria rubella

Desert Tree Frog

APPENDIX SIX

Budget Statement

NEGP Project N92/5

40 Per 10

WESTERN AUSTRALIAN HERITAGE COMMITTEE NATIONAL ESTATE GRANT PROGRAM (N92/5)

Project: BIOLOGICAL SURVEY OF THE BARLEE RANGE NATURE RESERVE

Expenditure statement

	\$
1993/94 (balance brought forward)	11 726
1994/95 (28/08/94)	
Materials & Equipment	<u>358</u>
Plant Hire & Vehicle Running	<u>422</u>

Total expenditure (28/08/94) \$ 12 506

P. Waterer A/Admin. Assistant 28/08/94