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DEPARTMENT OF NATURE & ENVIRONMENTAL CONSERVATION



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A PRELIMINARY REPORT ON THE VERTEBRATE FAUNA
OF
CAPE PROVINCIAL NATURE RESERVES
BY
C.T. STUART, N.G. PALMER, B.M. MUNNIK

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RESERVES

by

C.T. Stuart, N.G. Palmer and B.M. Munnik

(Also contributions by officers acknowledged in the text)

1. INTRODUCTION

The vertebrate fauna of the reserves falling under the jurisdiction of the Department of Nature and Environmental Conservation has received little attention in the past.

An attempt has been made in this report to compile lists and notes on the species known to occur in these reserves; information having been obtained from publications, reports and collections by the authors.

Two factors prompted the compilation of this report.

- (1) Successful management depends on an adequate knowledge of those species within the reserve one is attempting to manage. Past management was largely orientated towards the larger species e.g.: bontebok, often at the expense of the smaller, less obvious species.
- (2) The need to know what species are conserved in reserves in the Cape Province in order to be able to determine what steps must be taken to include species not protected in reserves (or what species require protection).

The importance of this survey does not lie in this report - there are a number of shortcomings - but in the continuous monitoring of faunal and floral changes on each reserve by the resident staff. Changes are continuously taking place and it is no good undertaking a basic survey and not following this up within a pre-determined time-period; e.g. bi-annually or annually as well as regular record keeping. This should become one of the main duties of an officer on every reserve - after all we should be more interested in the fauna and flora than in non-related activities.

This/...

This report has set out to:

- (a) document information on the vertebrate fauna of Provincial reserves.
- (b) and wherever possible to note their status and distribution within these reserves.

In all, there are 21 reserves falling directly under the control of this Department and of these 15 have been classified as nature reserves, 3 as species reserves, 1 as a fish breeding station, 1 as a waterfowl refuge and 1 as a wild flower garden. (Subcommittee for Botanical policy 1978).

The nature reserves are (should be) run as ecosystem reserves and the species reserves protect a single species, namely Cycad, Orothamnus and the Geometric tortoise.

The reserves are dealt with by region - West, South and East. There are no Provincial reserves in the Northern region. Most collected material will be housed in the John Ellerman Museum, Stellenbosch. J.C. Greig is particularly thanked for supplying information on reptiles and amphibians.

1.1 West Cape Region

De Hoop Nature Reserve (De Hoop, Windhoek, Dronkvlei and Potberg) 3420 AD; 3420 BC.

Description

The De Hoop complex is made up of four original properties, De Hoop, Windhoek and the larger portion of Dronkvlei are situated within 3420 AD and the remainder of Dronkvlei and Potberg in 3420 BC. Potberg is isolated from the rest of the complex by farm land.

The complex falls within Acock's (1953) - Macchia/Fynbos region, which Van der Merwe (1977) has described in some detail. Shifting sand dunes along the coast, sandveld, limestone dunes and the vlei are the main physical features. The area experiences largely winter rain (March to August) with a mean annual rainfall of 400 mm.

For/...

For the purpose of this report the complex has been divided into the following categories:

- (1) Shifting sand dunes (De Hoop)
- (2) De Hoop Vlei and Kloofs (De Hoop and Windhoek)
- (3) Open sand veld (De Hoop and Dronkvlei)
- (4) Limestone dunes (De Hoop, Windhoek and Dronkvlei)
- (5) Potberg.

In addition to publications, reports and casual records, two of the authors (C.T.S. and B.M.M.) undertook a survey of the complex in November/December 1977. The most comprehensive report to date is that by Van der Merwe (1976).

Mammals

The following have mentioned mammals occurring on De Hoop and Windhoek (Dronkvlei and Potberg are recent acquisitions), Anon (1961), Anon (1962), Anon (1972), Copley (1960), De Hoogh (1967), Herselman (1976 & 1977), Millar (1971), Schneekluth (197), Skead (1957), Visser (1958).

Species/...

Species	Common name	Known Distribution	Status	General
<u>INSECTIVORA</u>				
<u>Myosorex varius</u>	Forest shrew	Vlei area; kloofs.	Fairly common	Taken in break-back's
<u>Suncus etruscus</u>	Dwarf shrew	Buildings (vlei side)	Only one taken	Killed by cat
<u>Crocidura flavescens</u>	Red musk-shrew	Vlei area	Fairly common	Taken in break-backs
<u>Crocidura cyaneae</u>	Reddish-grey musk-shrew	Vlei area	Unknown	Taken in break-backs
<u>Chrysochloris (asiatica)</u> or <u>Amblysomus (hottentotus)</u> sp.	Golden mole	Shifting sand dunes; Vlei/area and open sand veld	Fairly common	Surface tunnels of one of the golden moles were observed but no specimens collected. Tunnels were noted just above the high water mark at Koppie Alleen
<u>CHIROPTERA</u>				
<u>Rhinolophus clivus</u>	Geoffroy's horseshoe bat			Due to movement the bat populations do not remain constant throughout the year
<u>Rhinolophus capensis</u>	Cape horseshoe bat	All have been collected in the Windhoek caves		

Species	Common name	Known Distribution	Status	General
<u>Myotis tricolor</u>	Cape hairy bat			
<u>Miniopterus schreibersi</u>	Schreibers long-fingered bat			
<u>Nycteris thebaica</u>	Egyptian slit- faced bat			
<u>PRIMATES</u> <u>Papio ursinus</u>	Chacma baboon	Potberg, limestone dunes, Vlei and kloofs	Common	Several troops are present on the complex
<u>CETACEA</u> <u>Balaenoptera borealis?</u>	Sei whale			Two whales thought to be this species were ob- served during November 1977, close in shore
<u>CARNIVORA</u> <u>Genetta tigrina</u>	Large spotted genet	Probably restric- ted to the vlei and kloof areas	Probably fairly common	One specimen taken in milkwood scrub on vlei edge (De Hoop). De Hoogh (1967) took two speci- mens at De Mond

Species	Common name	Known Distribution	Status	General
<u>Genetta genetta</u>	Small spotted genet	Expected to be widespread	As last species	This genet is known to be common in the Bredasdorp District
<u>Cynictis penicillata</u>	Yellow mongoose	Open sandveld; to a lesser extent limestone dunes	Fairly common	Several burrow systems are known on De Hoop and Dronkvlei
<u>Herpestes pulverulentus</u>	Cape grey mongoose	Throughout	Common	The most numerous carnivore. Specimens were collected.
<u>Atliax paludinosus</u>	Water mongoose	Vlei area and Kloofs; Potberg (lower)	Fairly common	
<u>Felis caracal</u>	Caracal	Probably throughout	Unknown	The caracal is a common predator in the coastal sandveld. Specimens have been taken on Melkamer adjacent to De Hoop.
<u>Felis libyca</u>	Wild cat	Sandveld; otherwise unknown		De Hoogh (1967) collected one specimen. Known to occur on surrounding farms. Anon (1957) states that they were present in "excessive numbers"

Species	Common name	Known Distribution	Status	General
<u>Aonyx capensis</u>	Clawless otter	Vlei area	Fluctuates depending on vlei level	Skead (1957) considered this otter to be common at that time. Anon (1958) stated that the farm foreman had killed <u>20 Aonyx</u> in two years on the vlei
<u>Mellivora capensis</u>	Honey badger	Shifting sand-dunes and sandveld	Uncommon (Rare?)	Tracks encountered. Specimens have been taken on surrounding farms
<u>Ictonyx striatus</u>	Striped polecat	Probably throughout		Road casualties have been noted in the area. One sight record at De Mond
<u>Vulpes chama</u>	Cape fox	Sandveld and limestone dunes	Uncommon	Sight records. One young animal killed by dogs on Dronkvlei (sandveld) - November 1977
<u>PINNIPEDIA</u> <u>Arctocephalus pusillus</u>	Cape fur-seal	Coast		Sight records off Koppie Alleen
<u>HYRACOIDEA</u> <u>Procavia capensis</u>	Cape dassie	Vlei area (limestone cliffs), Kloofs and Potberg	Very common	Particularly abundant along the limestone cliffs on De Hoop

Species	Common name	Known Distribution	Status	General
<u>PERISSODACTYLA</u> <u>Equus zebra</u>	Cape Mt. zebra	Limestone dunes	1977/1978 WINDHOEK - 0 1 0 3 DE HOOP - 0 2 0 6	Introduced from Oudtshoorn District and Cradock (Mt. Zebra National Park). One foal born during early 1978 making a total of 13.
<u>ARTIODACTYLA</u> <u>Taurotragus oryx</u>	Eland	Sandveld camps	June/1978	Introduced (De Hoop)
<u>Sylvicapra grimmia</u>	Common duiker	Sandveld, vlei area and limestone dunes, as well as Potberg	Fairly common	Endemic
<u>Redunca fulvorufula</u>	Mountain reedbuck	Sandveld/vlei edge	4	19 Mt. reedbuck were introduced in 1961. The remaining animals should be removed. (De Hoop). 7 came from Cradock
<u>Damaliscus dorcas</u>	Bontebok	Open sandveld and limestone dunes	1977/1978 0 18 0 46 J 24 (13 removed in June 1978). Present - 75	De Hoop and Windhoek. Introduced. In 1961 there were 22 bontebok present; in 1971 there were 50. Animals have been obtained from the Bontebok National park (early 1960's).

Species	Common name	Known Distribution	Status	General
<u>Antidorcas marsupialis</u>	Springbok	Open sandveld	1977/1978 22	Introduced. In 1961 there were 200 springbok on De Hoop. Animals have been obtained from Beaufort West and Strydenburg (1960). 1958 Stellenbosch, Kimberley, Prieska.
<u>Oreotragus oreotragus</u>	Klipspringer	Potberg and Windhoek	Unknown	Endemic
<u>Raphicerus campestris</u>	Steenbok	Open sandveld and shifting sand-dunes; limestone dunes	Fairly common	Most abundant on De Hoop and Dronkvlei. Seven individuals were counted between De Hoop and De Mond (November 1977) within 30 minutes. Endemic.
<u>Raphicerus melanotis</u>	Grysbok	Vlei area, kloofs and bushy areas of sandveld	Not as abundant as the steenbok	Have been observed on all four sections of the complex. Endemic.
<u>Pelea capreolus</u>	Grey rhebuck	Limestone dunes, sandveld (limited) and Potberg	Fairly common	A group of 5 was noted at De Mond. It is suspected that this group was introduced to the camp. Endemic.

Species	Common name	Known Distribution	Status	General
<p><u>LAGOMORPHA</u></p> <p><u>Lepus saxatilis</u></p> <p><u>Lepus capensis</u></p>	<p>Scrub hare</p> <p>Cape hare</p>	<p>Members of the <u>Lepus</u> group are numerous in the sandveld, shifting sand dunes and to a lesser extent in the limestone dunes</p>	<p>Common</p>	<p>De Hoogh (1967) collected both species on De Hoop. Specimens taken in the vicinity of the buildings at De Hoop were <u>L. saxatilis</u>, <u>L. capensis</u> and <u>L. saxatilis</u> have been taken as road kills in the area. Those animals in the shifting sanddunes are almost certainly <u>L. capensis</u> - judging by size and appearance</p>
<p><u>Pronolagus (rupestris?)</u></p>	<p>Red hare</p>	<p>Limestone dunes and Potberg</p>	<p>Fairly common - particularly on Potberg</p>	<p>No specimens taken. Sight records</p>
<p><u>RODENTIA</u></p> <p><u>Otomys irroratus</u></p>	<p>Vlei rat</p>	<p>Vlei area and kloofs leading from it</p>	<p>Fairly common</p>	<p>Judging from runways this species is most common in the northern half of the vlei. Anon (1972) states that <u>Otomys slogetti</u> was collected at Windhoek. This record is not included in this list. De Hoogh (1967) lists <u>Otomys saundersae</u> but not <u>irroratus</u>/...</p>

Species	Common name	Known Distribution	Status	General
				<u>irroratus</u> ; until specimens are obtained of the former the species is not included for the De Hoop complex.
<u>Tatera afra</u>	Cape greater gerbil	Open sandveld	Very common	Particularly abundant in the small game camps.
<u>Rhabdomys pumilio</u>	Striped mouse	Recorded from all habitats	Very common	Particularly abundant in the shifting sand-dunes (to just above the high water mark); vlei area
<u>Aethomys namaquensis</u>	Namaqua rock rat	Vlei edge, limestone dunes, Potberg	Very common	Utilise old stone walls extensively. Found together with <u>R. pumilio</u> , <u>Crocidura flavescens</u> and <u>Myosorex varius</u> .
<u>Mus minutoides</u>	Pygmy mouse	De Hoogh (1967) took specimens at Windhoek and De Hoop; habitat not specified. Anon (1972) took one specimen at Windhoek.	Unknown	No specimens collected recently.
<u>Mus musculus</u>	House mouse	Restricted to vicinity of buildings	Common	

Species	Common name	Known Distribution	Status	General
<u>Praomys (verreauxi?)</u> (awaiting final identification)	(Verreaux's rat)	Collected in Kloof at Windhoek	Unknown	De Hoogh (1967) and Anon (1972) collected specimens which they assigned to <u>P. natalensis</u> - zoogeographically this species presence seems unlikely
<u>Rattus rattus</u>	Black rat	Buildings at De Hoop	Probably common	No recent specimens. Collected by De Hoogh (1967)
<u>Hystrix africae-australis</u>	Cape porcupine	Throughout	Common	Much sign. One specimen trapped and released in sandveld at De Hoop
<u>Bathyergus suillus</u>	Cape dune mole-rat	Restricted to the sandveld in the vicinity of De Mond and the landward side of the shifting dunes	Common	During an intensive trapping campaign in the 1960's several thousand dune-moles were trapped and destroyed on De Hoop
<u>Cryptomys hottentotus</u>	Common mole-rat	Sandveld and vlei edge	Common	Mounds numerous; almost certainly all of this species. Material collected

NO LONGER/...

Species	Common name	Known Distribution	Status	General
<u>NO LONGER PRESENT</u> <u>Tragelaphus scriptus</u>	Bushbuck		No longer present (Died out)	10 bushbuck were introduced 1961 onto De Hoop
<u>Oryx gazella</u>	Gemsbok		No longer present	Introduced
<u>Connochaetes gnou</u>	Black wilde= beest		No longer present	Introduced. Removed
<u>Alcelaphus buselaphus</u>	Red hartebeest		No longer present	Introduced. Animals from Madibogo, N. Cape.

BIRDS/...

Birds

The Bird life of De Hoop and Windhoek has received considerable attention in recent years; Anon (1958), Anon (1959), Currie (1974), Siegfried et al (1968), Smit (1959), Uys et al (1967), Uys et al (1969), Winterbottom (1957), Winterbottom (1961).

M.H. Currie supplied lists for De Hoop and Potberg to be incorporated in this report. Lists were also compiled by one of the authors (CTS).

Extensive use has been made of the list compiled by Uys et al (1967). The nomenclature of Mclachlan and Liversidge (1978) has been followed here.

Depending on the species - vlei habitat indicates the open water as well as the vegetation fringing it.

Roberts Number	Species	Common name	Habitat (and status where known)	Recorded Breeding
STRUTHIONIDAE 1	<u>Struthio camelus</u>	Ostrich	5 (6/78) Game camp	Yes
PODICIPIDAE 4	<u>Podiceps cristatus</u>	Great crested grebe	Vlei Common	Yes
5	<u>Podiceps nigricollis</u>	Black-necked grebe	Vlei Common	Yes
6	<u>Tachybaptus ruficollis</u>	Dabchick	Vlei Common	Yes
PELECANIDAE 42	<u>Pelecanus onocrotalus</u>	White pelican	Vlei	-
SULIDAE 44	<u>Morus capensis</u>	Cape gannet	Coast	-
PHALACROCORACIDAE 47	<u>Phalacrocorax carbo</u>	White-breasted cormorant	Vlei Common	Yes
48	<u>Phalacrocorax capensis</u>	Cape cormorant	Coast	-
50	<u>Phalacrocorax africanus</u>	Reed cormorant	Vlei Common	Yes
ANHINGIDAE 52	<u>Anhinga rufa</u>	Darter	Vlei	Yes
ARDEIDAE 54	<u>Ardea cinerea</u>	Grey heron	Vlei, sandveld (occasional)	Yes
55	<u>Ardea melanocephala</u>	Black-headed heron	Sandveld	Yes
57	<u>Ardea purpurea</u>	Purple heron	Vlei	-
58	<u>Casmerodius albus</u>	Great white egret	Vlei	-
59	<u>Egretta garzetta</u>	Little egret	Vlei	Yes
60	<u>Egretta intermedia</u>	Yellow-billed egret	Vlei	Yes
61	<u>Bubulcus ibis</u>	Cattle egret	Vlei and sandveld	Yes
67	<u>Ixobrychus minutus</u>	Little bittern	Vlei. Two birds seen at Rietkloof - Nov. 1977. Rare.	-

Roberts Number	Species	Common name	Habitat (and status where known)	Recorded Breeding
69	<u>Nycticorax nycticorax</u>	Night heron	Vlei	Yes
SCOPIIDAE 72	<u>Scopus umbretta</u>	Hamerkop	Vlei	Yes
CICONIIDAE 79 80	<u>Ciconia nigra</u> <u>Ciconia ciconia</u>	Black stork White stork	Occasional Occasional	- -
THRESKIORNITHIDAE 81 83 84	<u>Threskiornis aethiopicus</u> <u>Plegadis falcinellus</u> <u>Hagedashia hagedash</u>	Sacred ibis Glossy ibis Hadedash	Vlei Vlei Rare Vlei Rare	On Melkka= mer - -
PLATALEIDAE 85	<u>Platalei alba</u>	African spoonbill	Vlei Occasional	-
PHOENICOPTERIDAE 86 87	<u>Phoenicopterus ruber</u> <u>Phoeniconaias minor</u>	Greater flamingo Lesser flamingo	Vlei Vlei	Bred on Reiners- kraal in 1960 & 1961 -

ANATIDAE/...

Roberts Number	Species	Common name	Habitat (and status where known)	Recorded Breeding
ANATIDAE				
88	<u>Plectropterus gambensis</u>	Spur-winged goose	Vlei	-
89	<u>Alopochen aegyptiaca</u>	Egyptian goose	Vlei Common	Yes
90	<u>Tadorna cana</u>	South African shelduck	Vlei	-
93	<u>Anas clypeata</u>	European shoveler	Vlei Rare only two records (Smit 1959)	
94	<u>Anas smithii</u>	Cape shoveler	Vlei	Yes
96	<u>Anas undulata</u>	Yellow-billed duck	Vlei Common	Yes
97	<u>Anas erythrorhynchos</u>	Red-billed teal	Vlei	-
98	<u>Anas capensis</u>	Cape teal	Vlei	Yes
101	<u>Dendrocygna bicolor</u>	Fulvous whistling duck	Vlei Rare (Currie pers. comm.)	-
102	<u>Netta erythrophthalma</u>	Red-eyed pochard	Vlei	-
103	<u>Oxyura punctata</u>	Maccoa duck	Vlei	-
SAGITTARIIDAE				
105	<u>Sagittarius serpentarius</u>	Secretary bird	Sandveld (Dronkvlei)	-
AEGYPIDAE				
106	<u>Gyps coprotheres</u>	Cape vulture	Rare	-
FALCONIDAE				
113	<u>Falco peregrinus</u>	Peregrine		-
114	<u>Falco biarmicus</u>	Lanner		-
115	<u>Falco subbuteo</u>	Hobby	One record (Smit 1959)	-
123	<u>Falco tinnunculus</u>	Rock kestrel	Limestone dunes and kloofs	Yes

AQUILIDAE/...

Roberts Number	Species	Common name	Habitat (and status where known)	Record Breeding
AQUILIDAE				
129	<u>Milvus aegyptius</u>	Yellow-billed kite		-
130	<u>Elanus caeruleus</u>	Black-shouldered kite	Sandveld	Yes
133	<u>Aquila verreauxi</u>	Black eagle	Limestone dunes	Yes
141	<u>Hieraetus spilogaster</u>	African hawk eagle	Rare	-
142	<u>Polemaetus bellicosus</u>	Martial eagle	Rare	-
149	<u>Haliaeetus vocifer</u>	Fish eagle	Vlei Several pairs	Yes
152	<u>Buteo rufofuscus</u>	Jackal buzzard	Throughout. Chiefly limestone dune area	-
154	<u>Buteo buteo</u>	Buzzard		
165	<u>Melierax canorus</u>	Chanting goshawk	Rare	-
167	<u>Circus ranivorus</u>	African marsh harrier		-
169	<u>Circus maurus</u>	Black harrier	Limestone dunes	-
171	<u>Polyboroides typus</u>	Gymnogene	Rare	-
172	<u>Pandion haliaetus</u>	Osprey	Vlei	
PHASIANIDAE				
176	<u>Francolinus africanus</u>	Grey-wing francolin	Sandveld and limestone dunes	-
181	<u>Francolinus capensis</u>	Cape francolin	Have been seen in all habitats	Yes
189	<u>Coturnix coturnix</u>	African quail	Limestone dunes; probably sandveld	-
NUMIDIDAE				
192	<u>Numida meleagris</u>	Crowned guinea-fowl	Largely restricted to the vicinity of the small game camps and the homestead	Yes

Roberts Number	Species	Common name	Habitat (and status where known)	Record Breeding
TURNICIDAE 194	<u>Turnix hottentotta</u>	Hottentot button-quail	Sandveld	Yes
RALLIDAE 203 210 212	<u>Limnocorax flavirostris</u> <u>Gallinula chloropus</u> <u>Fulica cristata</u>	Black crane Moorhen Red-knobbed coot	Vlei (Rietkloof) Vlei (Rietkloof) Vlei Very Common	- - Yes
GRUIDAE 216	<u>Anthropoides paradisea</u>	Blue crane	Sandveld Uncommon	Yes
OTIDAE 219 225	<u>Otis denhami</u> <u>Eupodotis afra</u>	Stanley bustard Black korhaan	Sandveld; limestone dunes Sandveld; limestone dunes	Yes Yes
JACANIDAE 228	<u>Actophilornis africanus</u>	African jacana	Vlei Rare	-
ROSTRATULIDAE 230	<u>Rostratula benghalensis</u>	Painted snipe	Vlei (Siegfried et al 1968)	-
HAEMATOPODIDAE 231	<u>Haematopus moquini</u>	Black oystercatcher	Coast Several pairs	Yes

ARENARIIDAE/...

Roberts Number	Species	Common name	Habitat (and status where known)	Recorded Breeding
ARENARIIDAE 232	<u>Arenaria interpres</u>	Turnstone	Coast	-
CHARADRIDAE 233	<u>Charadrius hiaticula</u>	Ringed plover		-
235	<u>Charadrius marginatus</u>	White-fronted sandplover	Coast	Yes
236	<u>Charadrius pallidus</u>	Chesnut-banded sand- plover	Coast	-
237	<u>Charadrius pecuarius</u>	Kittlitz's sandplover	Vlei	Yes
238	<u>Charadrius tricollaris</u>	Three-banded sandplover	Vlei Fairly common	Yes
241	<u>Pluvialis squatarola</u>	Grey plover	Rare	-
242	<u>Stephanibyx coronatus</u>	Crowned plover	Vlei Sandveld common	Yes
245	<u>Hoplopterus armatus</u>	Blacksmith plover	Vlei Sandveld	Yes
SCOLOPACIDAE 250	<u>Gallinago nigripennis</u>	Ethiopian snipe		-
251	<u>Calidris ferruginea</u>	Curlew sandpiper	Vlei and coast	-
253	<u>Calidris minuta</u>	Little stint	Coast	-
255	<u>Calidris alba</u>	Sanderling	Coast	-
256	<u>Philomachus pugnax</u>	Ruff	Vlei	-
258	<u>Tringa hypoleucos</u>	Common sandpiper	Vlei and coast	-
262	<u>Tringa stagnatilis</u>	Marsh sandpiper	Vlei	-
263	<u>Tringa nebularia</u>	Greenshank	Vlei	-
264	<u>Tringa glareola</u>	Wood sandpiper	Vlei	-
267	<u>Numenius arquata</u>	Curlew	Coast	-
268	<u>Numenius phaeopus</u>	Whimbrel		-

RECURVIROSTRIDAE/...

Roberts Number	Species	Common name	Habitat (and status where known)	Recorded Breeding
RECURVIROSTRIDAE 269 270	<u>Recurvirostra avosetta</u> <u>Himantopus himantopus</u>	Avocet Stilt	Vlei Uncommon Vlei	- Yes
BURHINIDAE 274 275	<u>Burhinus vermiculatus</u> <u>Burhinus capensis</u>	Water dikkop Dikkop	Vlei Vlei Sandveld	Yes Yes
LARIDAE 287 288 289	<u>Larus dominicanus</u> <u>Larus cirrocephalus</u> <u>Larus novaehollandiae</u>	S. black-backed gull Grey-headed gull Silver gull	Coast and vlei Vlei Occasional Coast and vlei	- Yes -
STERNIDAE 290 291 296 300 304 305	<u>Hydroprogne caspia</u> <u>Sterna hirundo</u> <u>Sterna sandvicensis</u> <u>Sterna balaenarum</u> <u>Chlidonias leucoptera</u> <u>Chlidonias hybrida</u>	Caspian tern Common tern Sandwich tern Damara tern White-winged black tern Whiskered tern	Coast and vlei Coast Coast) Recorded by Coast) Smit (1959) Vlei Vlei	- - - - - -
PTEROCLIDAE 307	<u>Pterocles namaqua</u>	Namaqua sandgrouse	Sandveld; limestone dunes	Yes

COLUMBIDAE/...

Roberts Number	Species	Common name	Habitat (and status where known)	Recorded Breeding
COLUMBIDAE 311	<u>Columba guinea</u>	Rock pigeon	Vlei; limestone dunes; Common	Yes
314	<u>Streptopelia semitorquata</u>	Red-eyed turtle dove	Vlei	Yes
316	<u>Streptopelia capicola</u>	Cape turtle dove	Throughout Common	Yes
317	<u>Stigmatopelia senegalensis</u>	Laughing dove	Throughout Common	Yes
318	<u>Oena capensis</u>	Namaqua dove	Sandveld; limestone dunes	Yes
CUCULIDAE 340	<u>Cuculus canorus</u>	Cuckoo	Rare	-
348	<u>Clamator jacobinus</u>	Jacobin cuckoo		-
351	<u>Chrysococcyx klaas</u>	Klaas's cuckoo		-
356	<u>Centropus superciliosus</u>	White-browed coucal	Vlei	-
TYTONIDAE 359	<u>Tyto alba</u>	Barn owl	Vlei and Sandveld	Yes
BUBONIDAE 368	<u>Bubo africanus</u>	Spotted eagle owl	Throughout. Several pairs.	Yes
CAPRIMULGIDAE 372	<u>Caprimulgus rufigena</u>	Rufous-cheeked nightjar	Largely on vlei and sandveld	Yes
373	<u>Caprimulgus pectoralis</u>	Fiery-necked nightjar		Yes

MICROPODIDAE/...

Roberts Number	Species	Common name	Habitat (and status where known)	Recorded Breeding
MICROPODIDAE				
380	<u>Apus barbatus</u>	Black swift		-
383	<u>Apus caffer</u>	White-rumped swift		-
385	<u>Apus affinis</u>	Little swift		-
386	<u>Apus melba</u>	Alpine swift		-
COLIIDAE				
390	<u>Colius striatus</u>	Speckled mousebird		Yes
391	<u>Colius colius</u>	White-backed mousebird	Melkkamer - sandveld/vlei	-
392	<u>Urocolius indicus</u>	Red-faced mousebird		Yes
ALCEDINIDAE				
394	<u>Ceryle rudis</u>	Pied kingfisher	Vlei	-
395	<u>Megaceryle maxima</u>	Giant kingfisher	Vlei	-
397	<u>Corythornis cristata</u>	Malachite kingfisher	Vlei	-
UPUPIDAE				
418	<u>Upupa africana</u>	African hoopoe	Vlei and sandveld. Fairly common	Yes
CAPITONIDAE				
432	<u>Tricholaema leucomelas</u>	Pied barbet	Vlei	Yes
INDICATORIDAE				
440	<u>Indicator indicator</u>	Greater honeyguide		-

PICIDAE/...

Roberts Number	Species	Common name	Habitat (and status where known)	Recorded Breeding
PICIDAE				
445	<u>Geocaloptes divaceus</u>	Ground woodpecker	Vlei. Westerly range limit of this species	Yes
448	<u>Campesthera notata</u>	Knysna woodpecker		Yes
450	<u>Dendropicos fuscescens</u>	Cardinal woodpecker	Vlei	Yes
452	<u>Mesopicos griseocephalus</u>	Olive woodpecker	Vlei	Yes
ALAUDIDAE				
461	<u>Certhiliauda albescens</u>	Karoo lark	Sandveld (on Melk-kamer)	-
463	<u>Calendula magnirostris</u>	Thick-billed lark	Sandveld	Yes
466	<u>Mirafra apiata</u>	Clapper lark	Sandveld	-
475	<u>Certhilauda curvirostris</u>	Long-billed lark	Sandveld	Yes
488	<u>Calandrella cinerea</u>	Red-capped lark	Sandveld	Yes
HIRUNDINIDAE				
493	<u>Hirundo rustica</u>	European swallow	Vlei and sandveld	-
495	<u>Hirundo albigularis</u>	White-throated swallow	Vlei	Yes
498	<u>Hirundo dimidiata</u>	Pearl-breasted swallow		Yes
502	<u>Cecropis cucullata</u>	Greater-striped swallow		Yes
506	<u>Ptynoprogne fuligula</u>	Rock martin	Common. Vlei and kloofs in limestone dunes	Yes
509	<u>Riparia paludicola</u>	African sand martin	Vlei	Yes
510	<u>Riparia cincta</u>	Banded sand martin	Rare	-
CAMPEPHAGIDAE				
513	<u>Campephaga phoenicea</u>	Black cuckoo-shrike	Rare	-

Roberts Number	Species	Common name	Habitat (and status where known)	Recorded Breeding
DICRURIDAE 517	<u>Dicrurus adsimilis</u>	Fork-tailed drongo	Vlei. Uncommon	-
ORIOOLIDAE 519	<u>Oriolus oriolus</u>	European golden oriole	Rare. Noted on Melkkamer (Uys <u>et al</u> 1969).	-
CORVIDAE 523 524	<u>Corvus capensis</u> <u>Corvultur albicollis</u>	Black crow White-necked raven	Sandveld Sandveld and lime=stone dunes	Yes Yes
PARIDAE 525	<u>Parus afer</u>	Grey tit		-
REMIZIDAE 531	<u>Anthoscopus minutus</u>	Cape penduline tit	Rare	-
PYCNONOTIDAE 543 551	<u>Pycnonotus capensis</u> <u>Andropadus importunus</u>	Cape bulbul Sombre bulbul	Sandveld and Vlei. Common. Vlei	Yes Yes

TURDIDAE/...

Roberts Number	Species	Common name	Habitat (and status where known)	Recorded Breeding
TURDIDAE				
553	<u>Turdus olivaceus</u>	Olive thrush	Vlei	-
560	<u>Monticola explorator</u>	Sentinel rock-thrush		-
568	<u>Oenanthe pileata</u>	Capped wheatear	Sandveld	-
570	<u>Cercomela familiaris</u>	Familiar chat	Sandveld and vlei	Yes
576	<u>Saxicola torquata</u>	Stone chat		-
581	<u>Cossypha caffra</u>	Cape robin	Sandveld and vlei	Yes
583	<u>Erythropgia coryphaeus</u>	Karoo scrub robin	Sandveld and lime= stone dunes	Yes
SYLVIIDAE				
599	<u>Phylloscopus trochilus</u>	Willow warbler	Only one record	-
604	<u>Calamocichla gracilirostris</u>	Cape reed warbler	Vlei	Yes
609	<u>Bradypterus baboeculus</u>	African sedge warbler	Vlei	-
618	<u>Sphenoeacus afer</u>	Grassbird	Sandveld	Yes
621	<u>Sylvietta rufescens</u>	Crombec	Sandveld	Yes
622	<u>Apalis thoracica</u>	Bar-throated apalis	Vlei	Yes
629	<u>Cisticola juncidis</u>	Fantail cisticola	Rare	-
631	<u>Cisticola textrix</u>	Cloud cisticola		-
638	<u>Cisticola subruficapilla</u>	Grey-backed cisticola		Yes
646	<u>Cisticola tinniens</u>	Le Vaillant's Cisticola		-
PRINIIDAE				
651	<u>Prinia maculosa</u>	Karoo prinia	Sandveld and vlei. Common	Yes

MUSCICAPIDAE/...

Roberts Number	Species	Common name	Habitat (and status where known)	Recorded Breeding
MUSCICAPIDAE				
654	<u>Muscicapa striata</u>	Spotted flycatcher		-
655	<u>Muscicapa adusta</u>	Dusky flycatcher		-
665	<u>Sigelus silens</u>	Fiscal flycatcher	Vlei	Yes
672	<u>Batis capensis</u>	Cape batis	Vlei	Yes
682	<u>Terpsiphone viridis</u>	Paradise flycatcher		-
MOTACILLIDAE				
686	<u>Motacilla capensis</u>	Cape wagtail	Vlei Common	Yes
692	<u>Anthus novaeseelandiae</u>	Richard's pipit		-
703	<u>Macronyx capensis</u>	Orange-throated long claw	Sandveld	-
LANIIDAE				
707	<u>Lanius collaris</u>	Fiscal	Sandveld, vlei and limestone dunes	Yes
708	<u>Lanius collurio</u>	Red-backed shrike	Recorded by Courtenoy Latimer (1957)	-
709	<u>Laniarius ferrugineus</u>	Boubou	Vlei	Yes
713	<u>Tchagra tchagra</u>	Tchagra	Vlei	Yes
722	<u>Telophorus zeylonus</u>	Bokmakierie	Sandveld, limestone dunes. Common	Yes
STURNIDAE				
733	<u>Sturnus vulgaris</u>	European starling	Sandveld and vlei. Common	Yes
735	<u>Creatophora cinerea</u>	Wattled starling	Sandveld	-
745	<u>Onychognathus morio</u>	Red-winged starling	Sandveld and limestone dunes. Common.	Yes
746	<u>Spreo bicolor</u>	Pied starling	Sandveld and vlei. Common.	Yes

Roberts Number	Species	Common name	Habitat (and status where known)	Recorded Breeding
PROMEROPIDAE 749	<u>Promerops cafer</u>	Cape sugarbird	Sandveld, limestone dunes	Yes
NECTARINIIDAE 751	<u>Nectarinia famosa</u>	Malachite sunbird	Sandveld; limestone dunes	Yes
753	<u>Anthobaphes violacea</u>	Orange-breasted sunbird	Limestone dunes	Yes
760	<u>Cinnyris chalybeus</u>	L. double-collared sunbird	Sandveld	Yes
ZOSTEROPIDAE 775	<u>Zosterops pallidus</u>	Cape white-eye		Yes
PLOCEIDAE 784	<u>Passer domesticus</u>	House sparrow	Vicinity of homestead at De Hoop	Yes
786	<u>Passer melanurus</u>	Cape sparrow	Sandveld, vlei. Common.	Yes
799	<u>Ploceus capensis</u>	Cape weaver	Vlei	Yes
808	<u>Euplectes orix</u>	Red bishop	Vlei	Yes
810	<u>Euplectes capensis</u>	Cape widow	Sandveld, limestone dunes	Yes
ESTRILDINAE 843	<u>Estrilda astrild</u>	Common waxbill		-
VIDUINAE 846	<u>Vidua macroura</u>	Pin-tailed whydah		-

Roberts Number	Species	Common Name	Habitat (and status where known)	Recorded Breeding
FRINGILLIDAE				
855	<u>Serinus totta</u>	Cape siskin		Yes
861	<u>Alario alario</u>	Blackhead canary		-
865	<u>Crithagra alboularis</u>	White-throated seed-eater	Vlei, Sandveld	Yes
866	<u>Crithagra flaviventris</u>	Yellow canary		-
867	<u>Poliospiza gularis</u>	Streaky-headed seed-eater		-
873	<u>Fringillaria capensis</u>	Cape bunting	Sandveld; lime= stone dunes	Yes

Birds recorded/...

Birds recorded on the Potberg; M.H. Currie

Roberts Number	Species	Common name	General
STRUTHIONIDAE 1	<u>Struthio camelus</u>	Ostrich	On reserve?
ARDEIDAE 61	<u>Bubulcus ibis</u>	Cattle egret	
AEGYPTIIDAE 106	<u>Gyps coprotheres</u>	Cape vulture	Breeding colony
FALCONIDAE 113 114 123	<u>Falco peregrinus</u> <u>Falco biarmicus</u> <u>Falco tinnunculus</u>	Peregrine Lanner Rock kestrel	Breeds Breeds (CTS)
AQUILIDAE 133 139 142 156 167 169 171	<u>Aquila verreauxi</u> <u>Hieraetus pennatus</u> <u>Polemaetus bellicosus</u> <u>Accipiter rufiventris</u> <u>Circus ranivorus</u> <u>Circus maurus</u> <u>Polyboroides typus</u>	Black eagle Booted eagle Martial eagle Red-breasted sparrow-hawk African marsh harrier Black harrier Gymnogone	Breeds Light phase
PHASIANIDAE 176 181	<u>Francolinus africanus</u> <u>Francolinus capensis</u>	Greywing francolin Cape francolin	Breeds (CTS)

NUMIDIDAE/...

Roberts Number	Species	Common name	General
NUMIDIDAE 192	<u>Numida meleagris</u>	Crowned guineafowl	
TURNICIDAE 194	<u>Turnix hottentotus</u>	Hottentot button-quail	
GRUIDAE 216	<u>Anthropoides paradisea</u>	Blue crane	
OTIDAE 219	<u>Otis denhami</u>	Stanley bustard	
COLUMBIDAE 311 316	<u>Columba guinea</u> <u>Streptopelia capicola</u>	Rock pigeon Cape turtle dove	
CAPRIMULGIDAE 373	<u>Caprimulgus pectoralis</u>	Fiery-necked nightjar	
MICROPODIDAE 380 386	<u>Apus barbatus</u> <u>Apus melba</u>	Black swift Alpine swift	Breeds (?)
UPUPIDAE 418	<u>Upupa africana</u>	African hoopoe	

Roberts No.	Species	Common Name	General
INDICATORIDAE 440	<u>Indicator indicator</u>	Greater honeyguide	
PICIDAE 445	<u>Geocolaptes olivaceus</u>	Ground woodpecker	
ALAUDIDAE 466	<u>Mirafra apiata</u>	Clapper lark	
HIRUNDINIDAE 506	<u>Ptynoprogne fuligula</u>	Rock martin	Breeds
DICRURIDAE 517	<u>Dicrurus adsimilis</u>	Fork-tailed drongo	
CORVIDAE 524	<u>Corvultur albicollis</u>	White-necked raven	
TIMALIIDAE 540	<u>Chaetops frenatus</u>	Rock-jumper	
PYCNONOTIDAE 543	<u>Pycnonotis capensis</u>	Cape bulbul	
TURDIDAE 559 570 581	<u>Monticola rupestris</u> <u>Cercomela familiaris</u> <u>Cossypha caffra</u>	Cape rock-thrush Familiar chat Cape robin	

Roberts Number	Species	Common name	General
PRINIIDAE 651	<u>Prinia maculosa</u>	Karoo prinia	
MUSCICAPIDAE 682	<u>Terpsiphone viridis</u>	Paradise flycatcher	
MOTACILLIDAE 692	<u>Anthus novaeseelandiae</u>	Richard's pipit	
LANIIDAE 707 709 722	<u>Lanius collaris</u> <u>Laniarius ferrugineus</u> <u>Telophorus zeylonus</u>	Fiscal Boubou Bokmakierie	Breeds (CTS)
STURNIDAE 745	<u>Onychognathus moria</u>	Red-winged starling	Breeds (CTS)
PROMEROPIIDAE 749	<u>Promerops cafer</u>	Cape sugarbird	Recorded breeding outside the reserve
NECTARINIIDAE 751 753 760	<u>Nectarinia famosa</u> <u>Anthobaphes violacea</u> <u>Cinnyris chalybeus</u>	Malachite sunbird Orange-breasted sunbird L. double-collared sunbird	

Roberts Number	Species	Common name	General
ZOSTEROPIDAE 775	<u>Zosterops pallidus</u>	Cape white-eye	
PLOCEIDAE 786 799 843	<u>Passer melanurus</u> <u>Ploceus capensis</u> <u>Estrilda astrild</u>	Cape sparrow Cape weaver Common waxbill	
FRINGILLIDAE 855 865 873	<u>Serinus totta</u> <u>Crithagra albogularis</u> <u>Fringillaria capensis</u>	Cape siskin White-throated seed-eater Cape bunting	

De Hoop complex - reptiles. Most species are probably to be found throughout the complex. Records from Anon (1958) and recent collections.

SNAKES/...

Species	Common name	General
SNAKES <u>COLUBRIDAE</u> <u>Lamprophis inornatus</u> <u>Pseudaspis cana</u> <u>Psammophylax rhombeatus</u> <u>Crotaphopeltis hotamboeia</u> <u>Dispholidus typus</u> <u>Psammophis crucifer</u> <u>Psammophis notostictus</u>	Olive house-snake Mole snake Rhombic skaapsteker Red-lipped snake Boomslang Cross-marked grass-snake Dapple-backed sand-snake	De Hoop Anon (1958) Thirty were released on De Hoop in 1958 from Robben Island to control the gerbils. It is not known if it occurred naturally (Anon 1958). Appears to be fairly common on both De Hoop and Windhoek. De Hoop Anon (1958). De Hoop, Windhoek, Dronkvlei. De Hoop Anon (1958) De Hoop
<u>ELAPIDAE</u> <u>Naja nivea</u>	Cape cobra	De Hoop, Windhoek, Dronkvlei
<u>VIPERIDAE</u> <u>Bitis arietans</u>	Puffadder	Throughout
LIZARDS <u>GEKKONIDAE</u> <u>Phyllodactylus porphyreus</u>	Marbled gecko	De Hoop

AGAMIDAE/...

Species	Common name	General
<u>AGAMIDAE</u> <u>Agama atra</u>	Rock agama	Throughout
<u>CHAMAELEONTIDAE</u> <u>Bradypodion pumilum</u>	Cape dwarf chameleon	Not collected recently.
<u>SCINCIDAE</u> <u>Mabuya homalocephala</u> <u>Mabuya sp.</u> <u>Acontias meleagris</u>	Cape speckled skink Golden sand-skink	A <u>Mabuya</u> , almost certainly this species is very numerous in the sandveld - particularly at De Mond and on the track to Koppie Alleen. Potberg.
<u>CORDYLIDAE</u> <u>Cordylus polyzonus</u> <u>Cordylus cordylus</u>	Girdled lizard Common Cape girdled lizard	Two specimens taken on Potberg. Specimens taken on De Hoop and Windhoek.
<u>TORTOISES</u> <u>Geochelone pardalis</u> <u>Chersina angulata</u> <u>Pelomedusa subrufa</u>	Mountain tortoise Angulate tortoise Water tortoise	Probably do not occur naturally. A juvenile collected on De Hoop. Very common on De Hoop and Dronkvlei De Hoop

Fish (Harrison, 1957 and recent collections).

Species	Common name	General
<u>ANABANTIDAE</u> <u>Sandelia capensis</u>	Cape kurper	The only indigenous fish known to occur.
<u>CICHLIDAE</u> <u>Serotherodon mossambica</u>	Tilapia (Bream)	Introduced. Widespread and apparently common in the Vlei.

Attempts have been made in the past to introduce bluegill sunfish, spotted bass, large-mouth bass and small-mouth bass to the Vlei and rainbow trout into Salt River. Fortunately none appear to have survived.

Amphibians

Annual Report 15 and recent collections.

Species	Common name	General
<u>PIPIDAE</u> <u>Xenopus laevis</u>	Common Platanna	Vlei
<u>BUFONIDAE</u> <u>Bufo angusticeps</u>	Sand toad	Recorded by J. Visser
<u>MICROHYLIDAE</u> <u>Breviceps rosei</u> <u>(vansoni)</u>	Roses's rain frog	Recorded by J. Visser

RANIDAE/...

Species	Common name	General
<u>RANIDAE</u> <u>Rana fuscigula</u> <u>Rana grayi</u> <u>Cacosternum</u> sp. (prob. <u>boettgeri</u> -)	Cape rana Gray's frog Dainty frog	Common De Hoop and Wind- hoek (vlei area); one specimen taken at edge of stream Potberg. Many heard calling in November at Windhoek

VROLIJKHEID/...