



PLANTS OF CAPE ARID NATIONAL PARK AND NUYSLAND NATURE RESERVE — A NEW AUSTRALIAN BIODIVERSITY HOTSPOT

Greg and Bronwen Keighery
2024

PLANTS OF CAPE ARID NATIONAL PARK AND NUYTSLAND NATURE RESERVE — A NEW AUSTRALIAN BIODIVERSITY HOTSPOT

GREG KEIGHERY and BRONWEN KEIGHERY

Greg Keighery—Wildflower Society of WA (Inc), Research Associate, Western Australian Herbarium, Department of Biodiversity, Conservation and Attractions, Locked Bag 104, Bentley Delivery Centre, Western Australia, 6983.

Bronwen Keighery—Wildflower Society of WA (Inc), Research Associate, Western Australian Herbarium, Agonis Botanical Consultants, 224 Hamersley Road, Subiaco, 6008.

Corresponding author: greg.keighery@icloud.com

© Greg and Bronwen Keighery. Parts of this publication can be used for educational purposes. For further information contact the author.

Design: Bronwen Keighery
Photos: Bronwen Keighery unless noted otherwise.

Cover: Mt Ragged. Photo Jiri Lochman

A Wildflower Society of WA (Inc.) Publication
December 2024

ISBN 978-0-9943057-2-5

Contents

SUMMARY	2
PART 1: LOCATION, LANDFORMS AND VEGETATION	2
Introduction	2
The Study Area—Cape Arid National Park and Nuytsland Nature Reserve	3
General Location and Landforms	4
Vegetation of Cape Arid and Nuytsland	10
Natural Regions	10
Vegetation Systems—Natural Region	12
Esperance System—Esperance Plains 01	12
Fanny's Cove System—Esperance Plains 01	13
Culver System—Mallee 01	13
Roe Plain—Hampton	14
Cooper System—Mallee 01	14
Russell Range System—Mallee 01	15
Nanambinia System—Coolgardie 01 and Mallee 01	
Vegetation Units	16
Extent of Vegetation Systems and Types	16
Floristics	16
PART 2: FLORA	18
Information Sources	18
Total Flora	18
Flora and Plant Communities	18
Family Diversity	19
Genus Diversity	20
Conservation Status of the Flora.	20
Weeds	21
PART 3: BIOGEOGRAPHICAL SIGNIFICANCE	22
Plant Community Richness	22
Species Richness	22
Biotic Changeover	23
Disjunct populations	24
Centre of Endemism	26
PART 4: A NATIONAL BIODIVERSITY HOTSPOT	29
APPENDIX 1: FLORA LIST	30
ACKNOWLEDGEMENTS	89
REFERENCES	90

SUMMARY

Cape Arid National Park has a flora of 1466 vascular plant taxa. When the flora of the adjoining Nuytsland Nature Reserve (747) is included it brings the total to 1613 taxa. This combined area contains at least 928 taxa at their eastern range margins (57% of the known flora), 20 highly disjunct populations and a centre of endemism (14 taxa) on the Russell Range. Based on the vascular flora alone this area deserves recognition as a National Biodiversity Hotspot (number 16 in Australia).

PART 1: LOCATION, LANDFORMS AND VEGETATION

Introduction

During the 1980's the then Department of Conservation and Land Management and the Western Australian Museum undertook a series of biological surveys stretching from Cape Arid National Park and the entire Nullarbor (Figures 1, 2 & 3). These Western Australian Nullarbor sites and sites from the South Australian Biological Survey Group were largely published as part of the Nullarbor Survey (McKenzie and Robinson 1987).

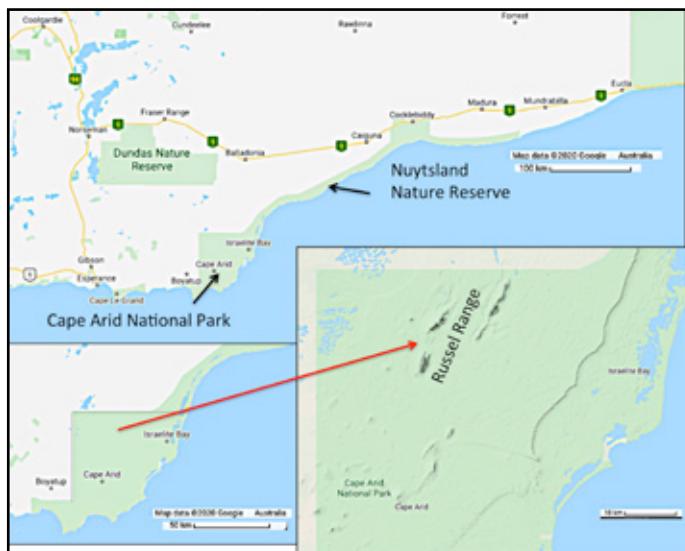


Figure 1: Locations of Dundas and Nuytsland Nature Reserves and Cape Arid National Park. Red arrow top map indicates the extent of the Nullarbor in Western and South Australia.

Subsequent surveys were undertaken from near Eucla, Eucla National Park (area around Eucla, Figure 1), Eyre, Toolinna Cove and Israelite Bay in Nuytsland Nature Reserve (McKenzie, et al. 1989, Figure 3, 4, 5). Areas of Cape Arid were surveyed in 1985 as part of a plan for combating Dieback Disease (Brandis et al. 1985). A report on the Eucla National Park has been published (Keighery 2010) and it is not included in this study)

A general biological survey from 1986-1988 of Cape Arid National Park led by A.H.

Burbidge was undertaken for the proposed management plan for Cape Arid National Park.

These surveys have generally not been published, but were archived as data sets when identifications were completed. These data were used to inform management in the reserves and this study.

The Study Area— Cape Arid National Park and Nuytsland Nature Reserve

Cape Arid National Park (hereafter Cape Arid) and Nuytsland Nature Reserve (hereafter Nuytsland) are very large conservation reserves located on the coast east of Esperance (Figures 1 & 2). Records of vascular plant data present in these reserves have been updated by the authors during a series of visits over the past twenty years. These were presented in summary for the management plan of Esperance Coastal Reserves (DPaW, 2016). The data are presented here in more detail to illustrate the very high conservation and biodiversity significance of these two large reserves. Nomenclature follows Florabase, unless noted (Western Australian Herbarium, 1998–last accessed December 2023).

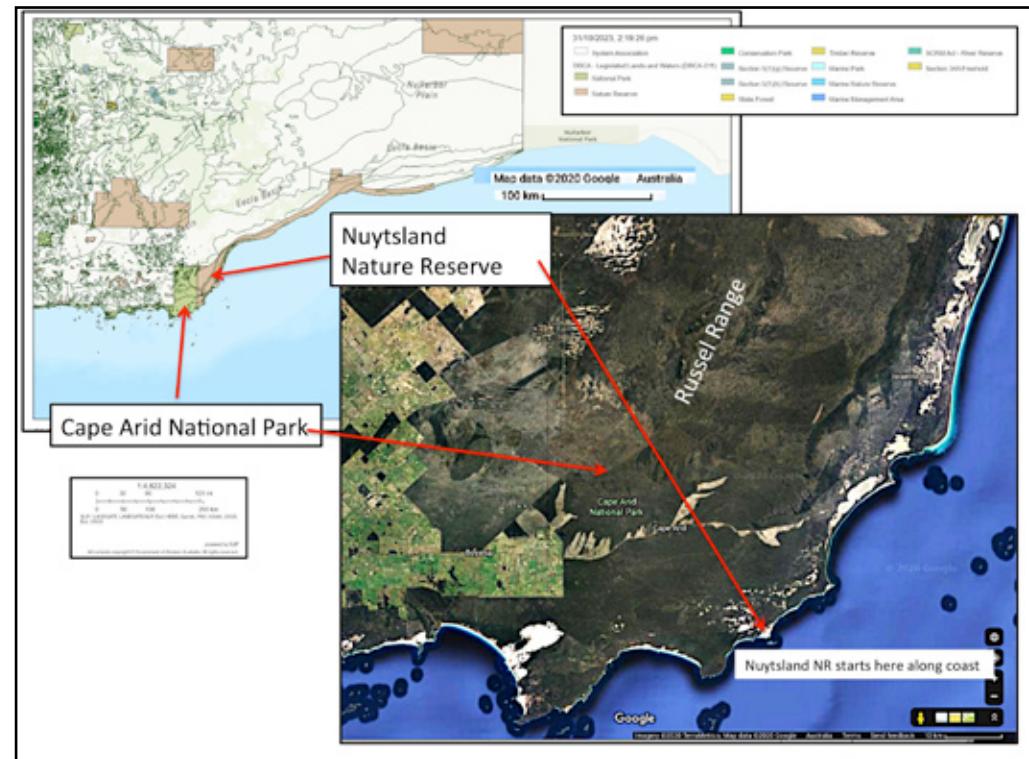


Figure 2: Locations of Dundas and Nuytsland Nature Reserves and Cape Arid National Park and remnant native vegetation in the area of Cape Arid National Park.

Cape Arid (Figures 1 to 5) is the last very large conservation reserve in the South Coast Region to have its vascular flora fully documented. The floras of the Stirling Ranges (Keighery, 1993) and Fitzgerald River National Parks (Aplin and Newbey 1979) having been completed many years before.

Dundas Nature Reserve on the northern margin of the Region has had a general biological survey undertaken as part of the Eastern Goldfields survey (Hall & McKenzie, 1993), but the flora remains to be fully documented.

While preparing this report it became apparent that the biodiversity and biogeographical significance of the Cape Arid area has not been recognised either at a national or international level. Part 1 and Part 2 present the flora information and related statistics. To maintain the flow of the text the annotated flora list is at the end of the document (Appendix 1, pages 30 to 89). Part 3 uses this information to outline how the diversity and distribution of flora of this region shows that the region deserves national and international recognition as a biodiversity hotspot. Part 4 describes the features of this biodiversity hotspot.

General Location and Landforms

The two reserves occupy an elongated section of the southern Western Australian coastline and hinterland (Figures 1 to 5). While the moderating effect of the ocean means that the entire study area has a Mediterranean climate, it varies through:

- Warm Mediterranean near the coast, where annual rainfall exceeds 600 mm;
- Dry Warm Mediterranean inland; and
- Desert Mediterranean further inland where annual rainfall is less than 250 mm.

As a consequence of their size—Nuytsland at 62,530 ha, and Cape Arid at 279,400 ha, and geographical extent, the combined reserves cover many biogeographic, geomorphic and vegetation units.

Vegetation information is available at 1: 250,000 and smaller scales, ranging through biogeographic units, land systems, natural regions, vegetation systems and vegetation units (Figure 5).

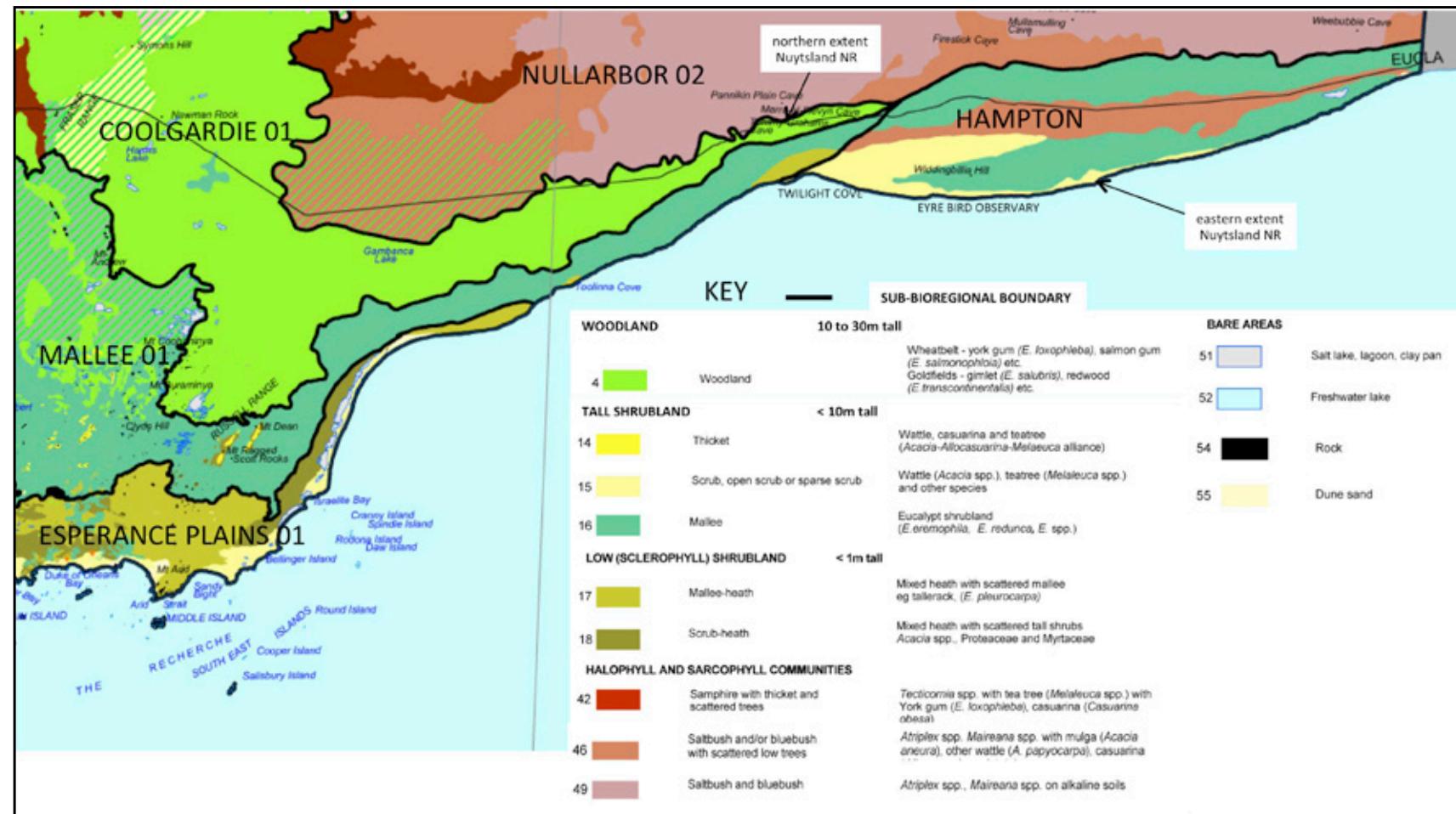


Figure 3: Bioregions, sub-bioregions and vegetation of the study area and adjacent areas. Part of the map found in Beard, JS, Beeston Gr, Harvey JM, Shepherd DP (2013) the vegetation of Western Australia at the 1: 3 000 000 scale Explanatory Memoir Second Edition. In: *Conservation Science of Western Australia–Vol 9*.

There are four sub-biogeographic regions in the study area (Figure 3), these are the:

- Esperance Plains 01 (both reserves);
- Mallee 01 (both reserves);
- Coolgardie 01 (margins both reserves); and
- Hampton (Nuytsland only).

The Nullarbor 02 is north of the study area and beyond the boundaries of this study.

Since these are sub-biogeographic regions are largely equivalent to, and have recently replaced Beard's Botanical Regions (1975), both are referenced when describing the broad vegetation units.

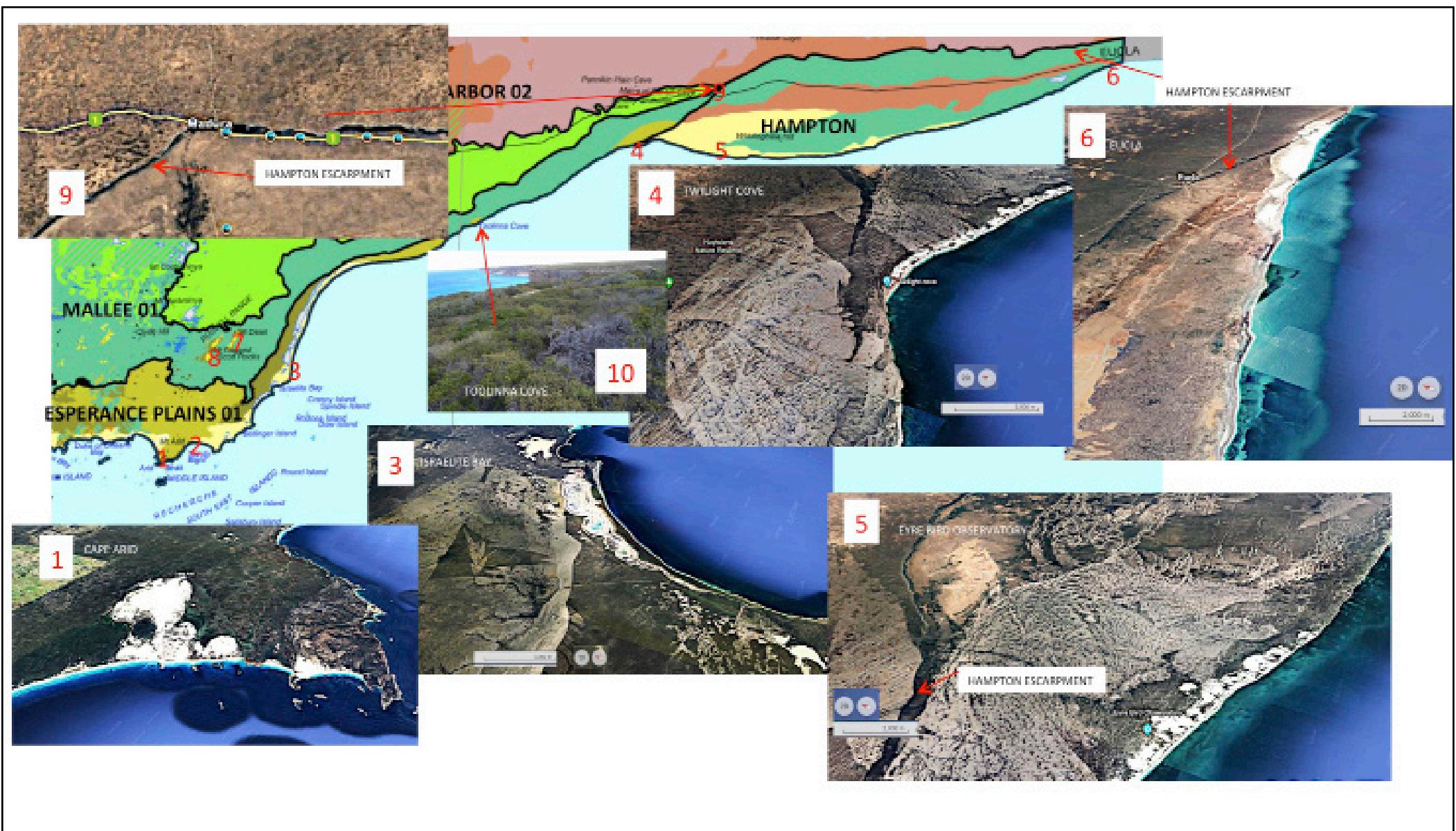


Figure 4 : Major landforms and locations in the study area—units in blue are in this figure, others in Figure 5.

1) Cape Arid area—dominated by granite of Cape Arid and Mt Arid. **2) Weamajumbuk Wetland** see Fig 5. **3) Israelite Bay**—the flat Israelite Plain with its string of coastal salt lakes typifies this part of the Esperance Plains. **4) Twilight Cove**—this patch of sand is dominated by mallee and scrub-heath. **5) Eye Bird Observatory**—located on the Roe Plains, the Hampton Escarpment defines the area of the Roe Plains. **6) Eucla**—Eucla is near the eastern end of the Hampton Escarpment and is outside the study area, there is a relatively small reserve in WA at Eucla that connects to a large South Australian reserve. **7) East Russel Range** see Fig 5. **8) Mount Ragged** see Fig 5. **9) Hampton Escarpment at Madura** (outside the study area) **10) Toolinna Cove**. Photos Google Earth December 2023.

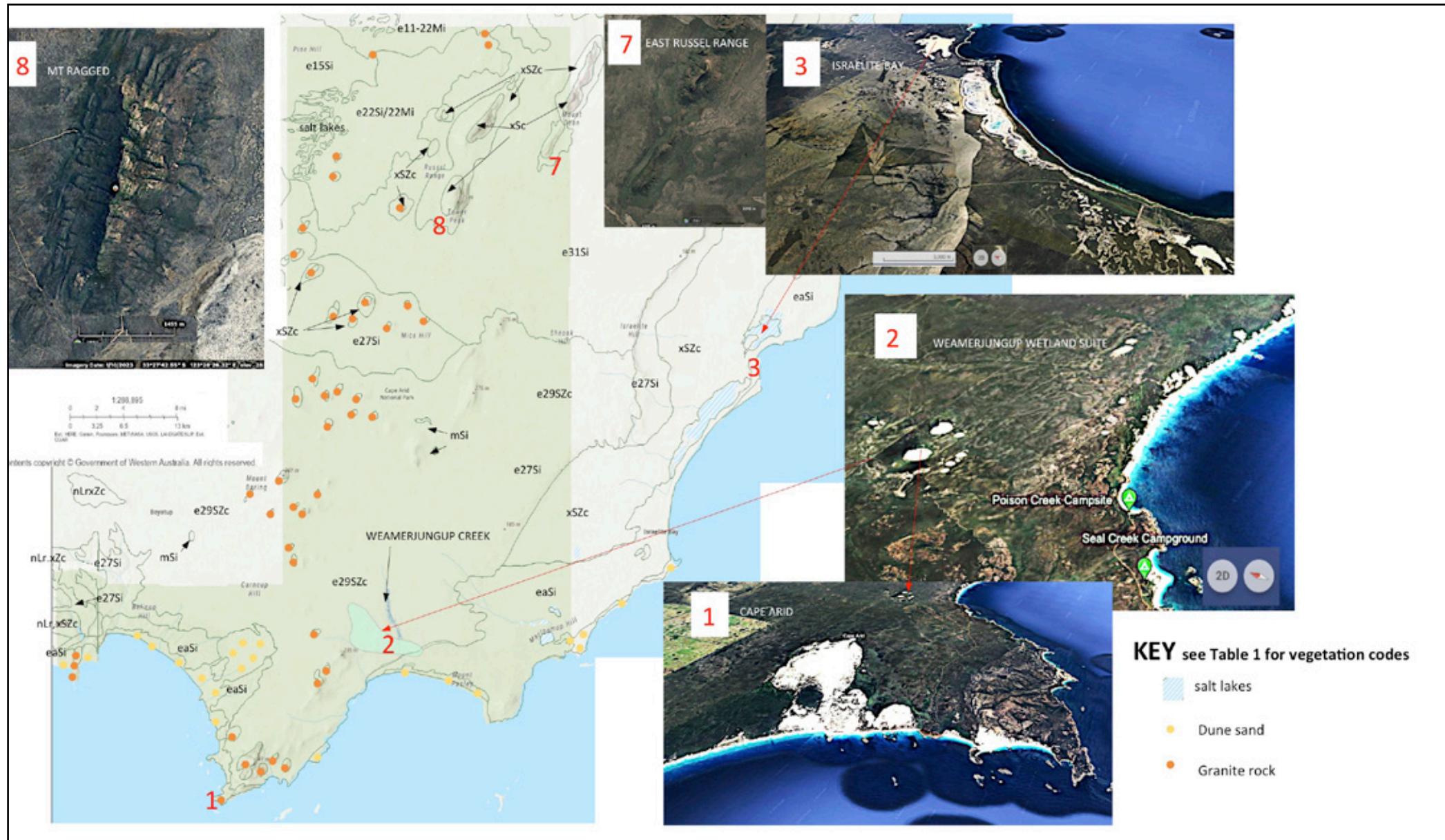


Figure 5: Major landforms, locations and mapped vegetation in Cape Arid/southern Nuytsland—units in blue are in this figure, others in Figure 4 and Table 1 lists vegetation codes.

1) **Cape Arid area**—dominated by granite of Cape Arid and Mt Arid. 2) **Weamerjunguk Wetland**—this area has a core area of Conservation Category wetland (DBCA-18). 3) **Israelite Bay**—the flat Israelite Plain with its string of coastal salt lakes typifies this part of the Esperance Plains. 4) **Twilight Cove** see Fig 4. 5) **Eyre Bird Observatory** see Fig 4. 6) **Eucla** see Fig 4. 7) **East Russel Range**—these quartzite hills support rare plant communities and species. 8) **Mount Ragged**—the tallest peak in the Russel Range. 10) **Toolinna Cove** see Fig 4. Photos Google Earth December 2023.

Vegetation of Cape Arid and Nuytsland

Natural Regions

Five major geomorphic based land systems are present in the study area region (Table 1, after Beard et al. 2013, page 10). These large scale (above a scale of 1:250, 000) units are based largely on geomorphology, climate and soils and were established for land use maps. They are used by Beard (1975) normally at an intermediate scale below his Botanical Regions, now biogeographic regions (Figures 3, 4, 5 and Table 1). At this scale some are almost equivalent, such as the Esperance Plains.

Table 1: Summary of Bioregions and Beard System and vegetation types in and adjacent to the study area.

- Column 1: IBRA sub-bioregions/Beard Systems
IBRA CODES—COOL=Coolgardie 01, MAL=Mallee 01, ESP=Esperance Plains 01, HAM=Hampton, NULL=NULLarbor
- Column 2: Vegetation with mapped codes from Figure 5 in brackets below.
Beards's codes Species codes—e=eucalypt followed by the species code number/s see Column 4 (for example *E. oleosa* (e22 in Figure 5), a=Wattle/Acacia; Structure code—capital letter and lower case letter
- Column 3: Summary vegetation structure (Beard)
- Column 4: Description of vegetation structure and key plant species

IBRA/Beard System	Veg Type (Beard code)	Vegetation Structure	FLORA Bold summary followed by edited detail
COOL: Nanambinia - Coolgardie	4/482 (e11-22Mi)	Woodland other	Sclerophyll woodland <i>E. flocktoniae</i> (e11 in Figure 5), <i>E. oleosa</i> (e22 in Figure 5) Wheatbelt; York gum (<i>Eucalyptus loxophleba</i>), salmon gum (<i>E. salmonophloia</i> , e8 in Figure 5) etc. Goldfields gimlet (<i>E. salubris</i>), redwood (<i>E. oleosa</i>) etc.
MAL: Nanambinia - Mallee	16/515 (e29SZc)	Mallee	Mallee heath <i>E. incrassata</i> (e29 in Figure 5). Eucalypt shrubland <i>Eucalyptus eremophila</i> (e15 in Figure 5), <i>E. redunda</i> complex (e25 in Figure 5), <i>E. spp.</i>
MAL: Nanambinia - Mallee	16/515 (e30Si)	Mallee	Blue mallee <i>E. socialis</i> (e30 in Figure 5). Eucalypt shrubland <i>Eucalyptus eremophila</i> (e15 in Figure 5), <i>E. redunda</i> complex (e27 in Figure 5), <i>E. spp.</i>
MAL: Nanambinia - Mallee	16/516	Mallee	Mixed mallee <i>E. redunda</i> (e27 in Figure 5) and <i>E. uncinata</i> . Eucalypt shrubland <i>Eucalyptus eremophila</i> , <i>E. redunda</i> complex, <i>E. spp</i>
MAL: Cooper	16/514 (e31Si)	Mallee	White mallee <i>E. cooperiana</i> (e31 in Figure 5). Eucalypt shrubland <i>Eucalyptus eremophila</i> , <i>E. redunda</i> complex, <i>E. spp.</i>
MAL: Cooper	16/516V (e27Si)	Mallee	Eucalypt shrubland <i>Eucalyptus eremophila</i> (e15 in Figure 5), <i>E. redunda</i> complex (e27 in Figure 5), <i>E. spp</i>
MAL: Cooper	16/924 (e11/22Mi)	Woodland	Woodland on Nullabor limestone <i>E. oleosa</i> (e22 in Figure 5)- <i>flocktoniae</i> (e11 in Figure 5). Eucalypt shrubland <i>Eucalyptus eremophila</i> , <i>E. redunda</i> complex, <i>E. spp.</i>
MAL: Cooper	16/519 (e15Si)	Mallee	Mixed mallee <i>E. eremophila</i> (e15 in Figure 5)- <i>oleosa</i> (e11 in Figure 5)
MAL: Cooper	14/510 (xSc)	Thicket	Mixed thicket Wattle, casuarina and teatree acacia-allocasuarina-melaleuca alliance.
MAL: Culver	17/479	Mallee-heath	Mixed heath with scattered mallee. For example tallerack <i>Eucalyptus pleurocarpa</i> (was <i>E. tetragona</i> , e26 in Figure 5).
MAL: Culver	18/48	Scrub-heath	Scrub heath Mixed Proteaceae Myrtaceae. Mixed heath with scattered tall shrubs <i>Acacia</i> spp., PROTEACEAE and MYRTACEAE.

IBRA/Beard System	Veg Type (Beard code)	Vegetation Structure	FLORA Bold summary followed by edited detail
MAL: Cooper	18/4,048 (xSZc)	Scrub-heath	Scrub heath Mixed Proteaceae Myrtaceae. Mixed heath with scattered tall shrubs <i>Acacia</i> spp., PROTEACEAE and MYRTACEAE.
MALL: Culver	55/129	Dune Sand	
MAL: Russell Range	18/4,048 (xSZc)	Scrub-heath	Scrub heath Mixed Proteaceae Myrtaceae. Mixed heath with scattered tall shrubs <i>Acacia</i> spp., PROTEACEAE and MYRTACEAE.
MAL: Russell Range	14/510 (xSc)	Thicket	Mixed thicket on Russell Range <i>Calothamnus</i> - <i>Banksia</i> (<i>Dryandra</i>) community Wattle, casuarina and teatree acacia-allocasuarina-melaleuca alliance
ESP: Esperance Plains	15 (mSi)	Scrub, open scrub or sparse scrub	Teatree scrub. <i>Melaleuca cuticularis</i> , Wattle, teatree & other species <i>Acacia</i> spp. <i>Melaleuca</i> spp.
ESP: Esperance Plains	18 (nLr.SZc)	Scrub-heath	Heath with scattered trees. Mixed heath with scattered tall shrubs <i>Acacia</i> spp., PROTEACEAE and MYRTACEAE.
ESP: Fanny Cove	15 (eaSi)	Scrub, open scrub or sparse scrub	Coastal scrub on drift sand <i>E. angulosa</i> - <i>Acacia</i> species association. Coastal scrub on drift sand <i>E. angulosa</i> - <i>Acacia</i> species association
ESP: Fanny Cove	51	Salt lake, lagoon, clay pan	
ESP: Fanny Cove	18 (xSZc)	Scrub-heath	Scrub heath Mixed Proteaceae Myrtaceae. Mixed heath with scattered tall shrubs <i>Acacia</i> spp., PROTEACEAE and MYRTACEAE.
ESP: Fanny Cove	55 (Yellow dot)	Dune sand	
ESP: Fanny Cove	15 (eaSi)	Scrub, open scrub or sparse scrub	Coastal dune scrub <i>E. angulosa</i> , <i>Acacia cyclops</i> & spp. Wattle (a in Figure 5), teatree & other species <i>Acacia</i> spp. <i>Melaleuca</i> spp.
ESP: Fanny Cove	16 (e27Si)	Mallee	Mixed mallee <i>E. redunda</i> complex (e27, Figure 5) and <i>E. uncinata</i> . Eucalypt shrubland <i>Eucalyptus eremophila</i> , <i>E. redunda</i> complex, <i>E. spp</i>
HAM: Roe Plain	15/42 (eaSi)	Scrub, open scrub or sparse scrub	Wattle, teatree & other species <i>Acacia</i> spp. <i>Melaleuca</i> spp
HAM: Hampton Tableland	16/515	Mallee	Mixed mallee <i>E. redunda</i> complex (e27, Figure 5) and <i>E. uncinata</i> . Eucalypt shrubland <i>Eucalyptus eremophila</i> , <i>E. redunda</i> , <i>E. spp</i>
HAM: Roe Plain	16/1515	Mallee	Mixed mallee <i>E. redunda</i> complex (e27, Figure 5) and <i>E. uncinata</i> . Eucalypt shrubland <i>Eucalyptus eremophila</i> , <i>E. redunda</i> , <i>E. spp</i>
HAM: Roe Plain	46/122	Saltbush and/or bluebush with scattered low trees	Mulga, other wattle, casuarina <i>Atriplex</i> spp. <i>Maireana</i> spp. With <i>Acacia aneura</i> , <i>A. papyrocarpa</i> , <i>Allocasuarina cristata</i> .
HAM: Roe Plain	49/460	Saltbush and bluebush	<i>Atriplex</i> spp. <i>Maireana</i> spp. communities on alkaline soils.
HAM: Roe Plain	51/125	Salt lake, lagoon, clay pan	
HAM: Roe Plain	55/129	Dune sand	
NULL: Bunda Plain	49/460	Saltbush and bluebush	<i>Atriplex</i> spp. <i>Maireana</i> spp. communities on alkaline soils.
NULL: Bunda Plateau	46/122	Saltbush and/or bluebush with scattered low trees	Mulga, other wattle, casuarina <i>Atriplex</i> spp. <i>Maireana</i> spp. With <i>Acacia aneura</i> , <i>A. papyrocarpa</i> , <i>Allocasuarina cristata</i> .

Vegetation Systems

The plant communities of the area and reserves have been mapped at the small scales of 1:250,000 (Beard, 1973) and 1,000,000 (Beard, 1975 & 1981). Below these scales Beard has combined the 16 major vegetation types mapped into vegetation systems which have similar soils, climate and vegetation types.

From west to east these are the—Esperance, Cooper, Russell Range, Fanny’s Cove, Culver, and Nanambinia systems. The Roe Plains were part of the Nullabor but were separated as the Hampton bioregion when the bioregions were defined. All of these systems are only present in large scale conservation areas in the study area. The Culver, Fanny’s Cove and Russell Range Systems are only protected in these reserves. A brief description of each of these vegetation systems at the 1:250,000 scale follows.



Photo 1: Esperance Plains in Cape Arid. *Banksia (Dryandra) falcata* is emergent from the heath. Marie Lochman.

Esperance System—*Esperance Plains 01* (Photo 1 and Figures 3, 4 & 5)

The Esperance Plains are tertiary sediments with emergent granite and metamorphosed sandstone hills mantled with sands and laterite (Photo 1).

The most common vegetation is Scrub Heath dominated by *Banksia speciosa* and *Lambertia inermis* on deeper sands, with Mallee Shrublands of *Eucalyptus pleurocarpa* and *E. angulosa* often with patches of *Banksia* on shallow sands over ironstone. Largely in near coastal areas of above 600 mm annual rainfall is Heath with scattered emergent *Nuytsia* that extends marginally into the western side of Cape Arid. Scattered through this system are numerous: fresh water wetlands and small rivers that have an over-storey of *Eucalyptus occidentalis* (Yate) or *Melaleuca preissiana*; and granite domes, the largest being Mount Arid. The Yate, and *Melaleuca* forest and woodlands and Granite Rocks are at their eastern margins in Cape Arid.

Fanny’s Cove System—

Esperance Plains 01 (Photo 2, Figures 3, 4 & 5)

This coastal system is the largest system in the study area and is mapped mostly on deep quaternary sands. This system is dominated by scrub, Mallee scrub, coastal scrub, scrub heath, saline shrublands around salt lakes, and succulent shrublands around estuaries. On the eastern margin is the Wylie Escarpment dominated by mallee, which is the southern end of the Nullarbor Cliffs, which range from 100 metres high in the north to sea level near Cape Paisley. Wetlands in this system may be dominated by *Banksia occidentalis* and thickets of *Eucalyptus platypus* occur between coastal dunes. The large saline lakes on the Israelite Coastal Plain apparently differ in floristics from those of the Cooper System in Cape Arid. The Israelite Plain and most of the Mardabilla Plain are within this system.



Photo 2: *Banksia occidentalis* in a wet shrubland



Photo 3: A dune on the cliffs above Twilight Cove.

Culver System—

Mallee 01 (Photo 3, Figures 3, 4 & 5)

A continuation of the Fanny’s Cove System, it comprises four disjunct series of sand-hills on the cliffs of the Bight. Point Culver and Toolinna Cove have an open Mallee of *Eucalyptus angulosa/E. cooperana/E. diversifolia* over abundant Proteaceae especially *Banksia epica*, *Banksia media* and *Adenanthera Forrestii*. The other two sandhills are 30 km SW Point Dover and at Twilight Cove with similar Eucalypts but lack most Proteaceae.



Photo 4: Greg Keighery on the Hampton Escarpment looking over the Roe Plains, August 2017. Vegetation is recovering from a large fire in the summer of 2016. The dunes at Eyre can be seen on the horizon

Roe Plain—Hampton (originally part of the Nullabor. Photo 4,5 Figures 3, 4 & 5)

The Roe Plains are mantled by deep Pleistocene siliceous sands and are dominated by *Eucalyptus* and *Melaleuca* species. The Hampton Escarpment defines the boundary between the Nullarbor and the Roe Plains.

Cooper System —Mallee 01 (Photo 6, Figures 3, 4 & 5)

This system lies in the northern section of Cape Arid, and within this is the Russell Range System (below). The Cooper is the southern margin of the Nullarbor Plain, composed of limestone with *Eucalyptus cooperana* mallee.



Photo 6: *Banksia (Dryandra) falcata* emerging from lower the dense shrub, herb and sedge understorey. Marie Lochman.

Russell Range System— Mallee 01 (Photo 7, Figures 3, 4 & 5)

The Russel Range is essentially quartzite hills ranging up to 592 metres at Mount Ragged. Lower slopes are dominated by *Banksia* dominated heaths (scrub heath in Beard), with the upper a unique thicket vegetation. Both of these are confined to Cape Arid.

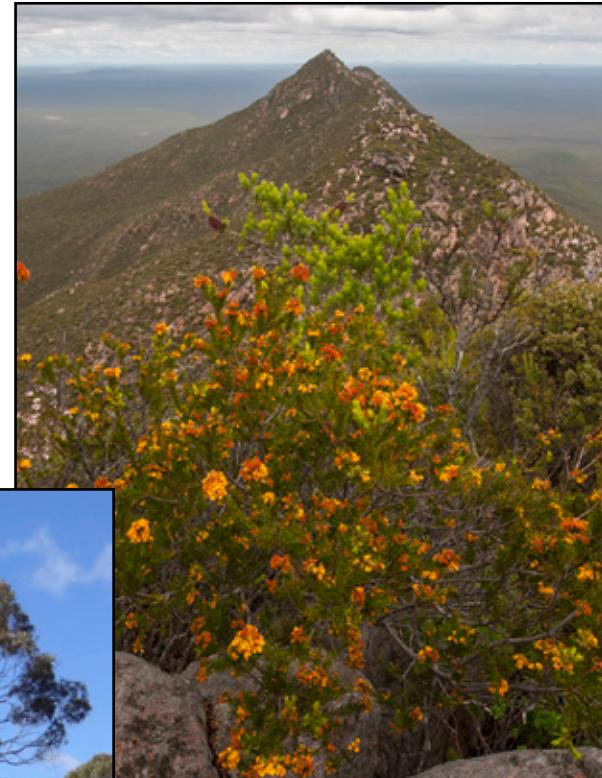


Photo 7: Mt Ragged with a *Dillwynia pungens* shrub in the foreground. Jiri Lochman

Nanambinia System— Coolgardie 01 and Mallee 01 (Photo 8, Figures 3, 4 & 5)



Photo 8: *Eucalyptus oleosa* woodlands.

Nanambinia System, another portion of the southern margin of the Nullarbor Plain. Vegetation is again largely *Eucalyptus oleosa* woodlands (Photo 8) with scattered emergent granite outcrops, ranging down to low open heaths of *Melaleuca* and low mixed shrubs along the edges of the Nullarbor Cliffs. A similar vegetation type in structure occurs in South Australia on the Nullarbor Cliffs (Oppermann, 1999 & Parsons, 1979). A floristic comparison between these occurrences would prove very illuminating, as data is available for both States. This vegetation system is largely in pastoral lands and extends into Nuytsland Nature Reserve.



Photo 9: A *Banksia speciosa* dominated Scrub Heath, Esperance Plains. Marie Lochman

Floristics

Detailed floristic studies of the entire study area have not been undertaken and many plant communities present are still poorly documented. The data that has been collected has not been analysed in a regional context, except for the areas of Nuytsland adjacent to the Nullarbor, which were detailed in Keighery et al. (1987). This study showed that the Roe Plains with siliceous sands dominated by *Eucalyptus* and *Melaleuca* species were highly differentiated from the calcareous shrublands and Mallee woodlands of the Nullarbor Plain. These studies were central to determining that the Roe Plains are a separate Biogeographic Region from the Nullarbor.

At a more detailed level, the *Melaleuca lanceolata* woodlands

Vegetation Units

Extent of Vegetation Systems and Types

As outlined above Beard combined in 16 major vegetation types (Table 1, Photo 9 example *Banksia* Scrub Heath) mapped into vegetation systems which have similar soils, climate and vegetation types (Figure 3 and Table 1, Beard, 1975 & 1981). The Culver and Russell Range Systems of Beard (1973) are entirely confined to these reserves. Of the vegetation types mapped at a 1:250,000 scale Cape Arid and the adjacent areas of Nuytsland: seven or 43% types are entirely confined to the Parks; 14 or 87% of the 16 are confined to the south coast of Western Australia and terminate in the study area. Even at this large scale the biogeographic significance of the area is immediately obvious.



Photo 10: *Melaleuca lanceolata* tree at the base of the Hampton Escarpment.



Photo 11: *Melaleuca lanceolata* woodlands understorey.

at the base of the Hampton Escarpment are currently greatly threatened by the apparent increase in fire frequency occurring on the Roe Plains (Photos 10, 11). These woodlands were proposed by the federal Department of Environment as part of a nationally threatened community stretching from Victoria to Tamala Station in Western Australia. Preliminary analysis of available floristic data showed the Roe Plain woodlands were distinctive from all others in Western Australia.

The study by Barrett (1996)

of the ranges of the south coast (Stirlings, Fitzgerald and Russell Range) has demonstrated that these are floristically very different from each other.

The isolated sand patch at Toolinna Cove dominated by *Banksia epica* (Photos 12 & 13), although relatively species poor averaging 13 species per 100 square metres was shown by unpublished floristic data of the senior author to be very different from the Mallee shrublands of the Roe Plains and those around Israelite Bay.

There are many communities that would be recognised at larger scale mapping. The considerable diversity of land systems, vegetation systems, vegetation communities (both structural and floristic) at large to small scales are of national significance.



Photo 13 &14: *Banksia epica* grows as a mallee on the Toolinna Cove (Fig 4) sands (13); and a cone with many follicles (14).

PART 2: FLORA

Information Sources

All known sight and herbarium records were checked to compile the list. There are some old herbarium records which are placed in Cape Arid National Park which are not verified, e.g. *Acacia bracteolata*—a collection labelled ‘Mount Ragged to Queen Victoria Spring’ is given the latitude and longitude of Mount Ragged, which is very disjunct from the known range of this species. These older unverified collections are not included in the checklist.

Total Flora

Cape Arid and Nuytsland (Figures 1 to 5) have a combined vascular flora of over 1612 taxa. Cape Arid containing 1466 taxa and Nuytsland with 747 (Appendix 1, page 30 to 89). In the case of Cape Arid this is estimated to be 85-90% of the flora of Cape Arid. With further survey a further 150-200 species would be recorded.

Nuytsland is a long narrow remote reserve with relatively poor access and there is little doubt that the known flora will substantially increase with more effort, probably by 300-400 species. Most of these could be expected in the southern portion and are probably already recorded for Cape Arid.

Flora and Plant Communities

As the study area is so large, and contains so many different vegetation systems/types a series of major landscape/soils/vegetation units were identified for the listing the flora. These relate to the Beard vegetation types but are not mapped. At this scale, there are 15 major landscape/soils/vegetation units (Table 2) and one unit for the disturbed areas (roadsides, gravel/sand pits, old settlements, camping grounds etc). This grouping defines the flora of these units. These are useful to help explain the causes of the features of the vascular flora that we are discussing in this paper. These are in Column 5 in Appendix 1 and also listed in Table 2, numbered from 1 to 16. Units 15 and 16 are mostly weeds (15) or show no clear pattern (16).

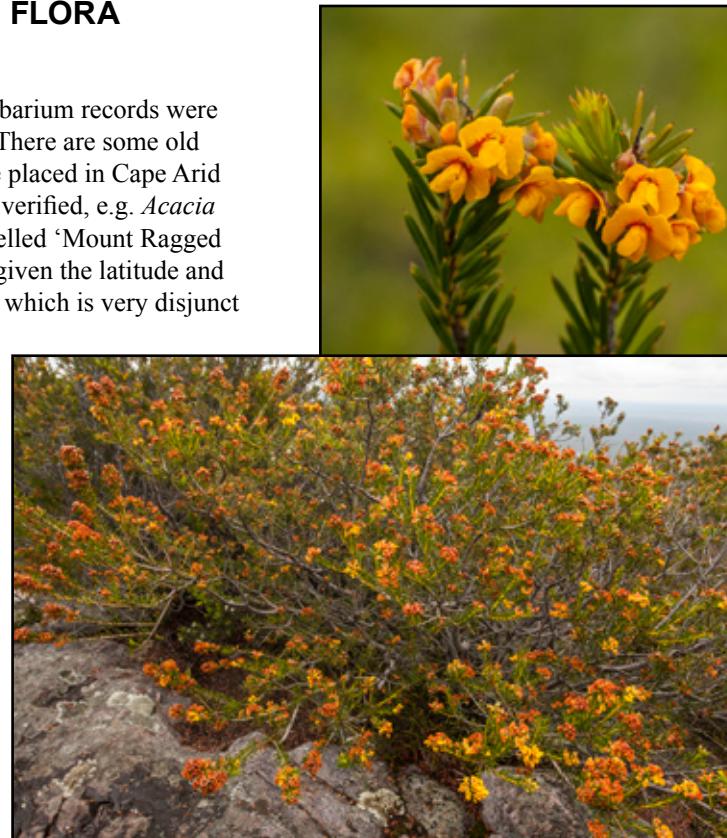


Photo 14 & 15: *Dillwynia pungens* flowers above and shrub below. Fabaceae is the largest family in the study area. This species ends its range to the east in Cape Arid. Jiri Lochman.

Table 2: Flora is listed in 15 major habitats (landscape/soils/vegetation units).

Unit number	Description	Relationship to bioregional boundaries
1.	Coastal sands and dune	Coastal in Esperance Plains, Mallee, Hampton
2.	Estuarine	Coastal saline wetlands in Esperance Plains
3.	Saline lakes/gypsum claypans	Saline wetlands in Esperance Plains, Mallee
4.	Mallee	Esperance Plains, Mallee
5.	Calcareous plains and clays	Mallee
6.	<i>Banksia</i> woodland	Esperance Plains
7.	Lateritic Heath	Esperance Plains
8.	Sandstone/quartzite Heath	Russel Range in Mallee
9.	Granite	Western and coastal areas Cape Arid in Esperance Plains, Mallee
10.	Eucalypt woodlands	Mallee, Nullarbor (edges)
11.	Sandy soils	Patches throughout, mainly in Esperance Plain and Hampton
12.	Fresh claypans	Fresh water perched wetlands Cape Arid in Esperance Plains
13.	Riverine/fresh water swamps	Fresh water channel wetlands and groundwater basin wetlands in Esperance Plains
14.	Shallow limestone	Cliffs in Hampton and Mallee
15.	Disturbed sites	Patches throughout,
16.	Miscellaneous soils/landform	Patches throughout,

Family Diversity

The major families in Cape Arid and Nuytsland after on the basis of the number of taxa are: Myrtaceae 168; Fabaceae 162 (11 weeds); Asteraceae 123 (23 weeds), Orchidaceae 99; Proteaceae 91; Poaceae 76 (34 weeds); Cyperaceae 76 (1 weed); Ericaceae 57, Chenopodiaceae 47 (1 weed); and Goodeniaceae 42. Some smaller families are the Rutaceae 27, Asparagaceae 24 (1 weed) and Stylidiaceae (24).

Even at this level these major components of the flora demonstrate the major trends of the area. The largest families reflect the dominant plant families of the South West Botanical Province (Southwest): shrub taxa from the Ericaceae, Fabaceae, Myrtaceae, Proteaceae, and Rutaceae; Some smaller families are perennial long-lived herbs from the Cyperaceae, Asparagaceae, Orchidaceae and Stylidiaceae. These families are species diverse in higher rainfall areas of the Southwest.

The large numbers of taxa in the families Asteraceae, Chenopodiaceae, Fabaceae, Goodeniaceae and Poaceae also reflect the major families of the semi-arid Coolgardie Bioregion and the adjacent arid Nullarbor (Keighery et al., 1987). Many of these taxa found from these families are annuals or short-lived perennials, few are long lived shrubs (Keighery et al. 1987).

Genus Diversity

The largest genera present in the parks are: *Eucalyptus* 59; *Acacia* 53; *Melaleuca* 39; *Hakea* 25; *Caladenia* 24; *Leucopogon* 23; *Goodenia* 22; *Pterostylis* 21; *Stylium* 20 and *Daviesia* 13. This diversity reflects the diversity of their families, as discussed above.

Conservation Status of the Flora.

The reserves contain 38 conservation state listed taxa, of which 34 are priority flora (2 Priority 1, 21 Priority 2, 28 Priority 3 and 10 Priority 4). Priority taxa are essentially these are species which are restricted in range, or lack adequate conservation data to indicate if they should be listed as threatened or not. These are reviewed regularly and continually updated on Florabase (Western Australian Herbarium, 1998-). The number of priority taxa and the large number of poorly known species (41) yet to be named indicates the poor knowledge of much of the area's flora.



Photos 16 & 17: *Grevillea pauciflora* subsp. *saxatilis* is endemic to the Russel Range. Plant above and opening flowers left. Marie Lochman.

Four species in the study area are legally protected as Threatened Flora-

Anigozanthos bicolor subsp. *minor*, *Boronia clavata* subsp. *grandiflora*, *Eremophila denticulata* subsp. *trisulcata* and *Myoporum velutinum*. Threatened Flora are updated annually.

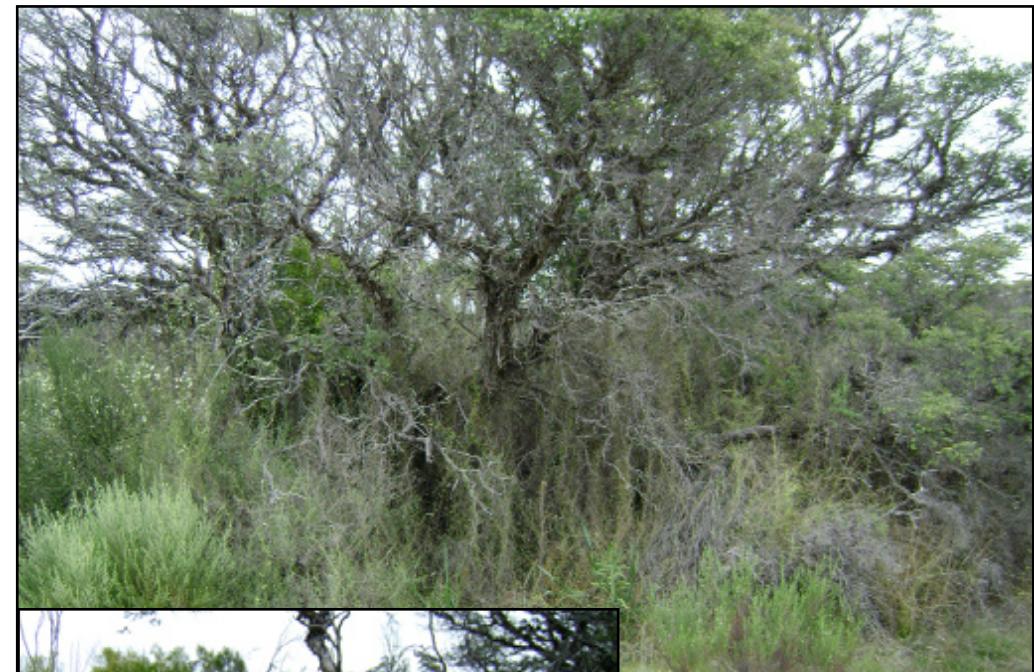
Phytophthora Dieback disease is recorded and is spreading in the study area (Brandis et al. 1985). Given the very large number of *Phytophthora* susceptible species (including many priority flora) and communities present in the southern portion of the study area there is an urgent need for further study to determine the best adaptive management for the area. Climate change and increasing fire frequencies are additional major risks to the species and communities.



Weeds

The combined reserves have 149 species of naturalised plants recorded within their boundaries. These are mostly from disturbed areas (Table 1, Column 7, unit 15). Many of these species are localised around old settlements such as Israelite Bay, Eyre and Thomas River Homestead. Examples include *Agave americana*, *Oxalis bowiei*, and *Conium maculatum*. It is doubtful that these weeds will ever pose a major threat to these parks.

There are several serious weeds well established in both parks including *Asparagus asparagoides* and *Freesia* hybrids. The weeds of the eastern portion of Nuytsland Nature Reserve are also the major weeds of the Nullarbor (Keighery, 2010).



Photos 18, 19 & 20: *Asparagus asparagoides* around an abandoned homestead (18 above, 19 left) and alongside a water point (20, below).



PART 3: BIOGEOGRAPHICAL SIGNIFICANCE

Plant Community Richness

The study area contains many vegetation types. As noted previously, several of these, are confined to the parks or are only conserved in the parks. Numerous vegetation types end their mapped extent in the southern portion of the study area. There are at least two federally listed threatened ecological communities present—Samphire marshlands and Proteaceae dominated heathlands (Department of Climate Change Environment Energy and Water, 2023, b). Preliminary examination of available floristic data suggests that numerous localised floristic community types are present in the Parks (see Barrett, 1996).

Species Richness

Cape Arid contains 1471 taxa of vascular plants (Part 2 and Appendix 1). Despite being at the lower end of the rainfall zones of the Esperance Sandplain Bioregion this is a substantial vascular flora. The vascular flora is comparable to other large national parks of south Western Australia (Table 3).

Table 3: Vascular Flora of other major National Parks of Southwest

Column 1 National Parks

Column 2 Total taxa (natives and weeds)

Column 3 Endemic taxa (approximate)

Column 4 Source, mostly G. Keighery unpublished data

Column 5 Published taxa records (all updated in Column 2)

Note—Kalbarri and Mount Lesueur additional lands have been purchased and these numbers will increase, the Waychinicup survey is in progress, and Fitzgerald figures based Florabase for the expanded area 329, 000 hectares compared to 250,000 hectares used in Aplin & Newbey (1979)

National Park	Total Taxa	Endemic taxa	Source	Published taxa records
Kalbarri	1271		Keighery	1080, Keighery et. al., 2000
Mount Lesueur	1171	27	Keighery	
Leeuwin-Naturaliste	1029	6	Keighery et al., 2011	
Stirling Ranges	1578	87	Keighery	1500, Keighery 1993
Waychinicup	1347	5	Keighery	
Fitzgerald	1748	75	Keighery	1107, Aplin & Newbey 1979
Cape Arid/Nuytsland	1467	26	Keighery & Keighery	

The Stirling Range (1578 taxa) and Fitzgerald River National Parks (1748 taxa) are in the same biogeographic region ((Department of Climate Change, Energy, Environment & Water, 2023, a). Currently available quadrat data also shows that the Kwongan shrublands of these parks are slightly more shrub rich, having more species packed into a unit area. This probably reflects their higher rainfall.

Based on current data, it appears that Cape Arid National Park is substantially richer than Kalbarri (Table 3), and perhaps Mount Lesueur of the northern sandplains (although note the current Lesueur National Park is substantially smaller than all other major Southwest conservation areas). The northern sandplains are generally listed as a major biodiversity node for the Kwongan. This appears equally true for Cape Arid. Thus, it is a park of considerable species diversity and easily ranks as a major biodiversity centre.



Photos 21 & 22: *Hakea pandanicarpa* subsp. *pandanicarpa* in Cape Arid. This species extends into Nuytsland and is here at eastern extent. Jiri Lochman.

Biotic Changeover

The parks have a very large number of range ends within their boundaries: 593 in Cape Arid and another 335 recorded in the adjacent portion of Nuytsland. Totalling 928 taxa, which is approximately 57% of the known vascular flora of the study area. Virtually all of these records are of Southwest species at the eastern margin of their ranges (Appendix 1).

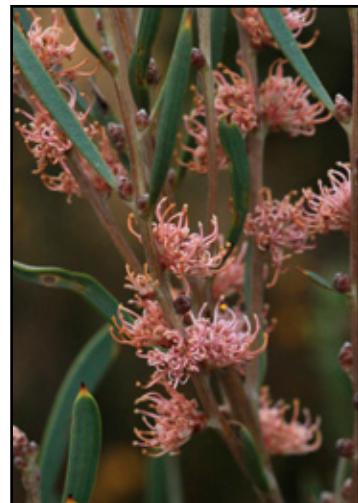
Of these 1131 taxa, there is a concentration in the landscape/soils/vegetation units used in Table 1, Column 7: 2 Estuarine; 6 Banksia woodlands, 7 Lateritic heaths, 8 Sandstone/quartzite heaths, 9 Granite, 11 Sandy soils, 12 Freshwater clay-pans; and 13 Riverine. These are all at their eastern extent in the study area.

This is a very large number and percentage of total flora compared to other areas for which this change over is recognised as a feature. For example:

- Kalbarri National Park with 304 of 1271 taxa or 25% of the recorded flora (Keighery unpub. data); and

- Shark Bay World Heritage Area with 145 of 673 taxa or 30% of the recorded flora (Keighery 1990).

In both of the areas these Southwest species are at their northern range margins. These regions have the number of range ends, that is biotic turn over, as a major feature of their biodiversity values. The species change over in the Shark Bay area is one of the World Heritage values of the region (Gibson et al. 2000). The study area contains the largest biotic change-over of vascular plants recorded in the Southwest.



Photos 23: *Hakea erecta*.
Michael Morcombe.

Disjunct populations

Another major feature of Cape Arid is the number of disjunctions present (Tables 4 & 5).

There are 20 taxa have populations in Cape Arid that are disjunct from Albany to Cape Arid or Esperance. This is probably caused by the lack of large granite surfaces east of Albany until Cape Le Grande.

Another major disjunction of 27 taxa is from the Fitzgerald area to Mount Ragged (Table 5). As in the previous examples this is due to a disjunction in similar habitats, the metamorphosed sandstone ranges of the Barrens and Russell Ranges. The only other known area with a significant number of west-east disjunctions is the Whicher Scarp (SE of Busselton) with six large distance disjunctions from the Albany area recorded as a feature of the flora (Keighery et al., 2008).

Such a large number of wide area disjunctions are potentially a unique feature of the area.

Table 4: Minor disjunct populations of 24 vascular plants within the Ravensthorpe/Bremer Bay-Esperance area (25 with original species in *Leptomeria axillaris*).

TAXON	DISJUNCTION (BETWEEN NAMED PLACES)
<i>Acacia biflora</i>	Bremer Bay – Esperance
<i>Acacia empiloclada</i>	Ravensthorpe - Cape Arid
<i>Acacia pinguiculosa</i> subsp. <i>pinguiculosa</i>	Ravensthorpe-Cape Arid
<i>Acacia</i> sp. Cape Arid (AS Weston 8164)	Ravensthorpe - Mt Ragged
<i>Adenanthes oreophilus</i>	Fitzgerald -Mt Ragged
<i>Anigozanthos gabriellae</i>	Stirling Range - Cape Arid
<i>Banksia armata</i> subsp. <i>ignicida</i>	Cape Riche - Esperance-Cape Arid
<i>Banksia falcata</i>	Bremer Bay - Cape Arid
<i>Billardiera speciosa</i>	Hopetoun - Esperance-Cape Arid
<i>Boronia penicillata</i>	Fitzgerald - Cape Arid
<i>Caladenia marginata</i>	Cape Riche – Esperance
<i>Cyanicula sericea</i>	Bremer Bay - Cape Arid
<i>Desmocladus austrinus</i>	Bremer Bay - Cape Arid
<i>Dodonaea hexandra</i>	Hopetoun - Cape Arid
<i>Eucalyptus lehmannii</i> subsp. <i>lehmannii</i> (Photo 26)	Bremer Bay – Esperance
<i>Gompholobium venustum</i> (Photo 24, below)	Hopetoun - Cape Arid
<i>Hemiphora exserta</i>	Fitzgerald -cape Arid
<i>Labichea lanceolata</i> ssubsp. <i>lanceolata</i>	Collie - Mount Ragged
<i>Leptomeria axillaris</i>	Fitzgerald - Cape Le Grande - Cape Arid (previously 2 species, <i>L. axillaris</i> Cape Le Grande - Cape Arid and <i>L. obovata</i> Fitzgerald -Cape Riche)
<i>Lepyrodia hermaphrodita</i>	Esperance - Cape Arid (Thomas River)
<i>Olearia revoluta</i>	Kalbarri/Morawa (Cape Riche) - Point Malcolm
<i>Poa porphyroclados</i>	Bremer Bay - Cape Arid
<i>Poranthera huegelii</i>	Bremer Bay – Esperance
<i>Microlaena stipoides</i>	Bremer Bay - Cape Arid
<i>Taxandria conspicua</i> subsp. <i>abrupta</i>	Fitzgerald - Mt Ragged
<i>Thryptomene saxicola</i>	Bremer Bay – Esperance





Photo 25: *Darwinia* sp. Mt Ragged.
Marie Lochman

Centre of Endemism

Three centres of vascular plant endemism (Table 5) can be recognised in the study area.

The Russell Range, which includes Mount Ragged, the most accessible peak, with 14 endemics. These metamorphosed sandstones are a similar age and geology to the peaks of the Fitzgerald River and the Stirling Ranges, which also house a series of local endemics.

Table 5: The three centres of endemic vascular plants

- Column 1– Nullarbor Cliffs–Toolinna Sandpatch (6 taxa): An elongated area from Eyre to Toolinna on the western portion of the Baxter Cliffs (within the Nuytsland NR, Figure 4), with six endemics documented. Most of these are recently collected and described.
- Column 2–‘Cape Arid’ (6 taxa): The general area of Cape Arid National Park/Nuytsland Nature Reserve contains at least six endemics. These are from a range of habitats and geomorphologies.
- Column 3–Russell Range (14 taxa, within Cape Arid NP)

Nullarbor Cliffs - Toolinna Sandpatch (Figure 4)	‘Cape Arid’	Russell Range (Figure 5)
<i>Adenantheros eyrei</i>	<i>Caesia viscida</i>	<i>Banksia prolata</i> var. <i>archeos</i> , Mt Ragged
<i>Anemocarpa calcicola</i>	<i>Darwinia</i> sp. Mt Baring	<i>Beaufortia raggedensis</i> , Mt Ragged
<i>Banksia epica</i>	<i>Kennedia beckxiana</i>	<i>Beyeria simplex</i> , Mt Ragged
<i>Eriochilus dilatatus</i> subsp. <i>orientalis</i>	<i>Leucopogon bossiaeae</i>	<i>Darwinia</i> sp., Mt Ragged (Photo 26)
<i>Opercularia loganioides</i> (Photo 28)	? <i>Myriocephalus biflorus</i>	<i>Daviesia grossa</i> , Mt Ragged
<i>Stenopetalum saxitale</i> (Photo 29)	<i>Myriophyllum</i> sp. Mt Arid (Sweetman 6767)	<i>Eucalyptus quadrans</i> , Mt Ragged
		<i>Gastrolobium pycnostachyum</i> , Mt Ragged, Diamonds, Mt Esmond (Photos 30, 31)
		<i>Gastrolobium tergiversum</i> , Mt Ragged
		<i>Grevillea pauciflora</i> subsp. <i>saxatilis</i> , Russell Range (Photo page 20)
		<i>Hakea scoparia</i> subsp. <i>trycherica</i> , Mt Ragged
		<i>Lepidosperma</i> sp., Mt Ragged
		<i>Melaleuca pentagona</i> var. <i>raggedensis</i> , Russell Range
		<i>Chorilaena rufidis</i> subsp. <i>linearis</i> , Mt Ragged
		<i>Scaevola brookeana</i> , Mt Ragged



Photo 26 (above): Toolinna Sandpatch.



Photo 27 (left): *Opercularia loganioides* plant.



Photo 28 (left): *Stenopetalum saxitale* plant.

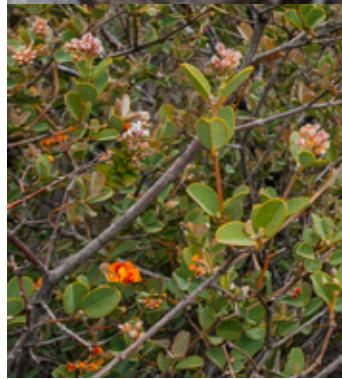


Photo 29 (below): *Gastrolobium pycnostachyum* plant. Marie Lochman.



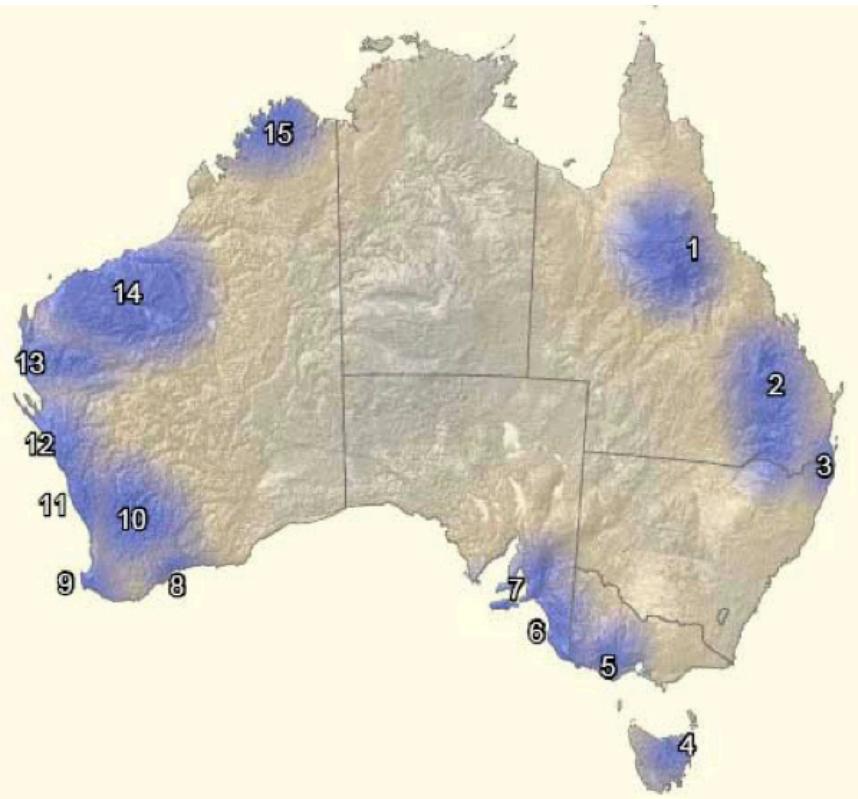


Figure 6: Australia's 15 National Biodiversity Hotspots

- 1. Einasleigh and Desert Uplands (Queensland)
- 2. Brigalow North and South (Queensland and New South Wales)
- 3. Border Ranges North and South (Queensland and New South Wales)
- 4. Midlands of Tasmania
- 5. Victorian Volcanic Plain
- 6. South Australia's South-East/ Victoria's South-West
- 7. Mt Lofty/Kangaroo Island (South Australia)
- 8. Fitzgerald River Ravensthorpe (Western Australia)
- 9. Busselton Augusta (Western Australia)
- 10. Central and Eastern Avon Wheatbelt (Western Australia)
- 11. Mount Lesueur-Eneabba (Western Australia)
- 12. Geraldton to Shark Bay sand plains (Western Australia)
- 13. Carnarvon Basin (Western Australia)
- 14. Hamersley-Pilbara (Western Australia)
- 15. North Kimberley (Western Australia)
- **16. Cape Arid National Park and adjacent Nuytsland Nature Reserve (Western Australia)**



PART 4: A NATIONAL BIODIVERSITY HOTSPOT

The entire Southwest of Western Australia is an internationally recognised biodiversity hotspot

The Australian Government has compiled a national biodiversity hotspot list (Figure 6 after Figure 3, Department of Agriculture, Water and Environment, 2003). These areas have been defined in a variety of ways (Brundrett et al., 2003 and Hammer et al., 2018). However both authors found that the Western Australian list is in need of systematic revision. Essentially those listed are defined either/or as centres of plant and/or animal diversity, endemism, possessing refugial areas or demonstrating evolutionary events (disjunct species, local centres of endemism and/or local distinct forms).

The listing advice states that these areas should support natural ecosystems that are largely intact, with a high diversity of local endemics and with a high level of threat. This includes land clearing, salinity, disease, feral animals and fire. The Cape Arid/southern Nuytsland area fits the majority of these threats (disease, weeds, fire, feral animals, climate change).

The Cape Arid/Nuytsland area supports a diverse range of natural ecosystems even at very large scales. More detailed floristic studies will confirm and uncover a wide range of localised vegetation units confined to the area. No doubt completion/publication of the vertebrate faunal surveys that have been undertaken will support this call. Cape Arid is the remaining stronghold of the Ground Parrot, a critically endangered endemic bird threatened by feral animals, fire and climate change. A brief check of the Western Australian Museum invertebrate data suggests that numerous short-range endemics are located in the Parks and a targeted faunal survey would be very useful in supporting this nomination.

Based on the outstanding richness of the vascular flora (most endemic to the Southwest), the very large numbers of species at their range ends and the nodes of local endemic species alongside the threats the Cape Arid/Nuytsland area easily meets the criteria and should be recognised as a national biodiversity hotspot on the vascular flora.

Currently there is sufficient flora and vegetation features for another “hotspot”, number 16 in Australia, in the area of Cape Arid National Park and the adjacent Nuytsland Nature Reserve. A case could be made to extend the area to include all of the Nuytsland Nature Reserve to include the endemics of the Nullarbor Cliffs and the Toolinna sandpatch.





APPENDIX 1: FLORA LIST

A photo bar leads each even page. The bar contains 4 images (numbered from 1 to 4 from left to right) that are found on each spread. The name of the plant depicted is annotated with the relevant number, that is 1 to 4, PHOTO 1 is *Carpobrotus modestus*.

Key to columns

- Column 1 Scientific names in Families in alpha order, followed by scientific names
- Column 2/3 Codes: + = present; E, W or S = type range end; e = endemic
- Column 2 Cape Arid National Park:
- Column 3 Nuytsland Nature Reserve, range end E or W
- Column 4 Conservation Code
- Column 5 Habitat (major landform/soil)

1. Coastal sands and dune	5. Calcareous plains and clays	9. Granite	13. Riverine/fresh water swamps
2. Estuarine	6. Banksia woodland	10. Eucalypt woodlands	14. Shallow limestone
3. Saline lakes/gypsum claypans	7. Lateritic Heath	11. Sandy soils	15. Disturbed sites
4. Mallee	8. Sandstone/quartzite Heath	12. Fresh claypans	16. Miscellaneous soils/landform

Scientific name	Arid	Nuyts	Cons Code	Habitat
Adiantaceae				
<i>Annogramma leptophylla</i>	+			14
Agavaceae				
* <i>Agave americanum</i>		+		11
Aizoaceae				
* <i>Carpobrotus aequilaterus</i>	+	+		1
<i>Carpobrotus modestus</i> (PHOTO 1)	+	+		4
<i>Carpobrotus virescens</i>	+	+		1
* <i>Cleretrum papulosum</i>	+	+		4

Scientific name	Arid	Nuyts	Cons Code	Habitat
<i>Dysphma crassifolium</i> subsp. <i>clavellatum</i>	+	+		1, 3
<i>Gunniopsis calcarea</i> (PHOTO 2)	+	+		4
<i>Gunniopsis glabra</i>	E			4, 5
<i>Gunniopsis quadrifida</i>	+	+		4
* <i>Mesembryanthemum crystallinum</i>	+	+		1, 2
* <i>Mesembryanthemum nodiflorum</i>	+	+		4
<i>Tetragonia implexicoma</i> (PHOTO 3)	+	+		1
<i>Tetragonia diptera</i>	+	+		3
<i>Tetragonia tetragonoides</i>	+	+		9
Alliaceae				
* <i>Nothoscordum gracile</i>	+			15
Alismataceae				
<i>Damasonium minus</i>	+			9
Amaranthaceae				
<i>Alternanthera denticulata</i> var. <i>denticulata</i>	+			13
* <i>Amaranthus albus</i>	+			13
<i>Ptilotus drummondii</i> var. <i>drummondii</i>	+	E		9
<i>Ptilotus humilis</i> (PHOTO 4)	+	+		9, 13
<i>Ptilotus stirlingii</i> subsp. <i>australis</i>	E			4
<i>Ptilotus obovatus</i>		+		4
<i>Ptilotus seminudus</i>	+			9, 13
<i>Ptilotus spathulatus</i>		+		10
<i>Ptilotus symonii</i>	?E			10
Anarthriaceae				
<i>Anarthria gracilis</i> (PHOTO 5)	+			11
<i>Anarthria humilis</i>	+	E		7, 9, 11
<i>Anarthria laevis</i>	+	E		11, 13
<i>Anarthria prolifera</i>	+	E		1, 11
<i>Anarthria scabra</i>	E			11
<i>Lyginia imberbis</i>	+	E		11



Scientific name	Arid	Nuyts	Cons Code	Habitat
Apiaceae				
<i>Actinotus glomeratus</i>	E			7
<i>Apium annuum</i>	+	+		2
<i>Apium prostratum</i>	E			2
* <i>Bupleurum semicompositum</i>	+	+		5,10
<i>Centella asiatica</i>	+			2
* <i>Conium maculatum</i>	+			13
<i>Daucus glochidiatus</i>	+	+		16
<i>Platysace compressa</i> (PHOTO 1)	+	E		1, 9
<i>Platysace effusa</i>	+	E		11, 7
<i>Platysace haplosciadia</i>	E			9
<i>Platysace trachymenioides</i>	+	+		7
<i>Xanthosia collina</i>	E			7
<i>Xanthosia huegelii</i>	+	E		16
<i>Xanthosia tasmanica</i>	+	+		16
Apocynaceae				
<i>Alyxia buxifolia</i> (PHOTO 2)	+	+		1,14
Araceae				
<i>Lemna disperma</i>	+			13
Aralaceae				
<i>Hydrocotyle alata</i>	E			9
<i>Hydrocotyle callicarpa</i>	+	+		16
<i>Hydrocotyle tuberculata</i> (was "decipiens" (GK 463))	E			9
<i>Hydrocotyle diantha</i>	+	+		16
<i>Hydrocotyle hispidula</i>	E			9

Scientific name	Arid	Nuyts	Cons Code	Habitat
<i>Hydrocotyle medicaginoides</i>	+	+		3
<i>Hydrocotyle intertexta</i>	+	+		16
<i>Hydrocotyle rugulosa</i>	E			9
<i>Trachymene anisocarpa</i> var. <i>trichocarpa</i>	E			9
<i>Trachymene cyanopetala</i>	+	+		9
<i>Trachymene ornata</i>	+	+		4
<i>Trachymene pilosa</i> (PHOTO 3)	+	+		16
Asparagaceae				
* <i>Asparagus asparagoides</i> (PHOTO page 21)	+			13
<i>Chamaescilla corymbosa</i> var. <i>corymbosa</i>	E			9
<i>Laxmannia brachyphylla</i>	E			7,11
<i>Laxmannia minor</i>	E			9
<i>Laxmannia omnifertilis</i>	E			7
<i>Laxmannia ramosa</i> subsp. <i>deflexa</i>	E			9
<i>Laxmannia paleacea</i>	E			7
<i>Lomandra collina</i>	+	+		4,7
<i>Lomandra effusa</i>	+	+		4,10
<i>Lomandra hastilis</i>	+	+		7
<i>Lomandra mucronata</i>	E			4
<i>Lomandra micrantha</i> subsp. <i>teretifolia</i>	+			7
<i>Lomandra nigricans</i>	+	+		7
<i>Lomandra rigida</i>	E			9
<i>Thysanotus baueri</i>		+		4
<i>Thysanotus brachyantherus</i>	?E			9,13
<i>Thysanotus dichotomus</i>	E			7
<i>Thysanotus manglesianus</i> (PHOTO 4)	+	+		9
<i>Thysanotus nudicaulis</i>	E			4
<i>Thysanotus parviflorus</i>	E			9
<i>Thysanotus patersonii</i>	+	+		16
<i>Thysanotus pauciflorus</i>	E			9
<i>Thysanotus sparteus</i>	E			4
<i>Thysanotus triandrus</i>	+	+		4,9



Scientific name	Arid	Nuyts	Cons Code	Habitat
Asphodelaceae				
* <i>Asphodelus fistulosus</i>	+	+		15
<i>Bulbine semibarbata</i>	+	+		9
Aspleniaceae				
<i>Asplenium aethiopicum</i> (PHOTO 1)	+			9
<i>Asplenium flabellifolium</i>	+			9
<i>Asplenium trichomanes</i>	+	+		9,14
<i>Pleurozorus rutifolius</i>	+	+		9,14
Asteraceae				
<i>Actinobole uliginosa</i>	+			16
<i>Actites megalocarpus</i>	+	+		1
<i>Amenocarpa calcicola</i>		e		14
<i>Angianthus conocephalus</i>	+			14
<i>Angianthus cunninghamii</i>	+	+		1
<i>Angianthus preissianus</i>	+	+		2,9
<i>Angianthus pygmaeus</i>	E			9
* <i>Arctotheca calendula</i>	+	+		16
* <i>Arctotheca populifolia</i>	+	+		1
<i>Argentipallium niveum</i>	+	+		4
<i>Argentipallium tephrodes</i>	E			9
<i>Asteridea archeri</i>	E			9
<i>Asteridea asterooides</i> (PHOTO 2)	E			7
<i>Asteridea athrixioides</i>	+	E		4
<i>Asteridea nivea</i>	+	+		16
<i>Balladonia multiceps</i>	+			9
<i>Blennospora drummondii</i>	+	+		5

Scientific name	Arid	Nuyts	Cons Code	Habitat
<i>Brachyscome ciliaris</i>	+	+		16
<i>Brachyscome eyerensis</i>	E			9
<i>Brachyscome gonocarpa</i>	E			9
<i>Brachyscome iberidiifolia</i>	+	+		9
<i>Brachyscome linearloba</i>		+		14
<i>Brachyscome perpusilla</i>	E			9
<i>Calotis hispidula</i>	+	+		4,10
* <i>Carduus pycnocephalus</i>	+			9,15
* <i>Carthamus lanatus</i>	+			10,15
* <i>Centaurea melitensis</i>	+	+		9,15
<i>Centipedia crateriformis</i> subsp. <i>compacta</i>	+			13
* <i>Carthamus lanatus</i>	+			15
<i>Ceratogyne obionoides</i>	+			10
<i>Chthonocephalus pseudoevax</i>	+			12
<i>Chthonocephalus multiceps</i>	S		2	9
* <i>Cirsium vulgare</i>	+	+		9,15
<i>Cotula australis</i>	+			9
* <i>Cotula bipinnata</i>	+			9,15
<i>Cotula coronopifolia</i>	+			2,13
<i>Cotula cotuloides</i>	+	+		2
<i>Cratystylis conocephala</i>		+		4,5
* <i>Dittrichia graveolens</i>	+	+		5,15
<i>Elachanthus pusillus</i>		+		5,9
<i>Eremophyllum tenellum</i>		+		4
* <i>Erigeron bonariensis</i>	+	+		13
* <i>Erigeron sumatrensis</i>	+			13
<i>Euchiton sphaericus</i>	+	+		16
<i>Gnaphalium indutum</i>	+	+		16
<i>Gnephosis drummondii</i>	+			9,13
<i>Gnephosis tenuissima</i>	+			9
<i>Helichrysum leucopsidum</i> (PHOTO 3)	+	+		4,10
<i>Hyalochlamys globifera</i>	+			9
<i>Hyalosperma demissum</i> (PHOTO 4)	E			16
* <i>Hypochaeris glabra</i>	+	+		16



Scientific name	Arid	Nuyts	Cons Code	Habitat
<i>Isoetopsis graminifolia</i>	+	+		4,10
<i>Ixiolaena viscosa</i>	+	+		1,13
* <i>Lactuca serriola</i>	+			15
<i>Lagenophora huegelii</i> (PHOTO 1)	E			6
* <i>Leontodon saxatilis</i>	+			11
<i>Leptorhynchos scaber</i>	+	E		1, 11
<i>Leucophyta brownii</i>	+			1
<i>Millotia major</i>	+			3.9
<i>Millotia tenuifolia</i> var. <i>tenuifolia</i>	E			7,9,11
<i>Minuria cunninghamii</i>		+		5
<i>Minuria leptophylla</i>		E		4,5
* <i>Monoculus monstrosus</i>	+			10,15
<i>Myriocephalus biflorus</i>	e		2	12
<i>Myriocephalus occidentalis</i> (PHOTO 2)	E			9,12
<i>Myriocephalus oldfieldii</i>	E			9
<i>Olearia ciliata</i>	E			1, 8
<i>Olearia axillaris</i>	+	+		1,8
<i>Olearia dampieri</i> subsp. <i>eremicola</i>	+	+		10
<i>Olearia exiguifolia</i>	+	+		4,10, 11
<i>Olearia laciniifolia</i>	E			4,5
<i>Olearia lepidophylla</i>	+	+		4
<i>Olearia muelleri</i>	+	+		4,5,10
<i>Olearia muricata</i>	E			7,9
<i>Olearia picridifolia</i>	W	E		4,5
<i>Olearia ramosissima</i>		+		4,5
<i>Olearia revoluta</i>	E			11
* <i>Oligocarpus calendulaceus</i>		+		5
<i>Ozothamnus blackallii</i>	+			5
<i>Ozothamnus lepidophyllus</i>	E			3

Scientific name	Arid	Nuyts	Cons Code	Habitat
<i>Picris angustifolius</i> subsp. <i>angustifolius</i> (PHOTO 3)	E			9
<i>Podolepis rugata</i> (was <i>canescens</i>)	+	+		
<i>Podotheca angustifolia</i>	+	+		6,7,9,14
<i>Pogonolepis muelleriana</i>	+			5
<i>Pogonolepis stricta</i>	E			2
<i>Pseudognaphalium luteo-album</i>	+	+		16
<i>Pterochaeta paniculata</i>	E			6
<i>Quinetia urvillei</i>	E			9,11
* <i>Reichardia tingitana</i>		+		1,6
<i>Rhodanthe citrina</i>	E			4,9,10
<i>Rhodanthe cholorocephala</i> subsp. <i>rosea</i>		+		10
<i>Rhodanthe floribunda</i>		+		5
<i>Rhodanthe nullarborensis</i>		+		5
<i>Rhodanthe manglesii</i>	+			9
<i>Rhodanthe pygmaea</i>	+	+		4,9,10
<i>Rhodanthe spicata</i>	+			9
<i>Siemssenia capillaris</i> (was <i>Podolepis</i>)	+			4,10
<i>Senecio glossanthus</i>	+	+		4,9,10
<i>Senecio lacustrinus</i>	+	+		5,9, 11,14
<i>Senecio multicaulis</i> subsp. <i>multicaulis</i>	E			6,9
<i>Senecio picridoides</i>	E			9
<i>Senecio pinnatifolius</i> var. <i>pinnatifolius</i>	+	+		4,9, 10
<i>Senecio pinnatifolius</i> var. <i>maritimus</i>	+	+		1,2,6
<i>Senecio quadridentatus</i>	+	E		6,11
<i>Senecio spanomerus</i>		+		14
<i>Siloxerus filifolius</i>	E			9,13
<i>Siloxerus humifusus</i> (PHOTO 4)	E			6,11
<i>Siloxerus multiflorus</i>	+			9
* <i>Soliva sessilis</i>	+			15
* <i>Sonchus asper</i>	+			13
<i>Sonchus hydrophilus</i>	+			2
* <i>Sonchus oleraceus</i>	+	+		16
<i>Triptilodiscus pygmaeus</i>	E			9
* <i>Urospermum picroides</i>	+	+		11



Scientific name	Arid	Nuyts	Cons Code	Habitat
* <i>Ursinia anthemoides</i>	+			6
* <i>Vellereophyton dealbatum</i>	+			2,13
<i>Vittadinia australasica</i>	+			4,9
<i>Vittadinia dissecta</i>	+	+		5,12
<i>Vittadinia gracilis</i>	+	+		10
<i>Vittadinia nullarborensis</i>		+		4,5
<i>Waitzia acuminata</i>	+			9,10,
<i>Waitzia suaveolens</i> var. <i>suaveolens</i>	+	+		8,10
<i>Waitzia suaveolens</i> var. <i>flava</i>	+			4,10
Boraginaceae				
<i>Cynoglossum australe</i> (PHOTO 1)	+			11
* <i>Echium plantagineum</i>	+			15
<i>Halgnania anagalloides</i> var. <i>southern</i> (AE Orchard 1 609)	+			4,6
<i>Halgnania andromedifolia</i>	+	+		4,6
<i>Halgnania cyanea</i> var. <i>cyanea</i>	E			5,11
<i>Halgnania integrifolia</i>	E			9
<i>Halgnania lavandulacea</i>	+	E		4
<i>Halgnania sericifolia</i>	+			11
<i>Heliotropium asperimum</i>	+	+		14
<i>Heliotropium curassavicum</i>	+	+		2
<i>Myosotis australis</i> subsp. <i>australis</i>	+			11
<i>Omphalolappula concava</i>		+		14
<i>Plagiobotrys australasicus</i>	E			9
Boryaceae				
<i>Borya constricta</i> (PHOTO 2)	+	E		9
<i>Borya nitida</i>	E			9

Scientific name	Arid	Nuyts	Cons Code	Habitat
Brassicaceae				
* <i>Brassica tournefortii</i>	+	+		11
* <i>Cakile maritima</i>	+	+		1
* <i>Carrichtera annua</i>		+		5
* <i>Diplotaxis muralis</i>	+			15
* <i>Helophilus pusilla</i>	+			11
* <i>Hornungia procumbens</i>	+			1,14
* <i>Lepidium africanum</i>	+			15
* <i>Lepidium pseudoruderale</i>		+		14
<i>Lepidium rotundum</i>	+	+		3,5,9, 10
<i>Menkea australis</i> (PHOTO 3)		+		5,14
<i>Microlepидium pilulosum</i>	+	+		5,14
<i>Phlegmatospermum eremaeum</i>		+		5
* <i>Raphanus raphanistrum</i>	+	+		15
* <i>Sisymbrium erysimoides</i>		+		11
* <i>Sisymbrium irio</i>		+		11
* <i>Sisymbrium orientale</i>	+	+		11,14
<i>Stenopetalum lineare</i> var. <i>lineare</i>		+		14
<i>Stenopetalum saxatile</i> (PHOTO page 27)	e			14
Campanulaceae				
<i>Isotoma scapigera</i>	+			9,12
<i>Lobelia anceps</i>	+	+		1,2
<i>Lobelia archeri</i>	E			6
<i>Lobelia cleistogamoides</i>	E			9
<i>Lobelia gibbosa</i>	E			11
<i>Lobelia heterophylla</i> subsp. <i>heterophylla</i> (PHOTO 4)	+			10,13
<i>Lobelia rariflora</i>	+			11
<i>Lobelia rhombifolia</i>	E			11
* <i>Monopsis debilis</i>	+			13
* <i>Wahlenbergia capensis</i>	+			11
<i>Wahlenbergia cappilaris</i>	+	+		9,11
<i>Wahlenbergia gracilenta</i>	+	+		9,11
<i>Wahlenbergia preissii</i>	+			9



Scientific name	Arid	Nuyts	Cons Code	Habitat
Caryophyllaceae				
* <i>Cerastium glomeratum</i>	+	+		9,11,15
* <i>Corrigiola litoralis</i>	+			2
* <i>Petrorhagia dubia</i>	+			11,15
* <i>Polycarpon tetraphyllum</i>	+			15
* <i>Sagina apetala</i>	+	+		2
* <i>Sagina maritima</i>	+	+		2
* <i>Silene gallica</i> var. <i>gallica</i>	+			9,15
* <i>Silene gallica</i> var. <i>quiquevulnera</i>	+			15
* <i>Silene nocturna</i>	+	+		11
* <i>Spergula diandra</i>	+	+		15
* <i>Spergula rubra</i>	+			2
<i>Stellaria filiformis</i>	+			10,12
* <i>Stellaria pallida</i>	+			15
Casuarinaceae				
<i>Allocasuarina acuraria</i>	E			11
<i>Allocasuarina campestris</i>	E			11
<i>Allocasuarina helmsii</i>	+	+		11
<i>Allocasuarina huegeliana</i>	+	E		9
<i>Allocasuarina humilis</i>	+	E		11
<i>Allocasuarina lehmanniana</i> subsp. <i>ecarinata</i>	+	E		5
<i>Allocasuarina microstachya</i>	E			9
<i>Allocasuarina scleroclada</i>	+	E		9,14
<i>Allocasuarina thuyoides</i>	+	E		11
<i>Allocasuarina trichodon</i> (PHOTO 1)	E			9
Celastraceae				

Scientific name	Arid	Nuyts	Cons Code	Habitat
<i>Stackhousia pubescens</i>	+	E		9, 11
<i>Stackhousia</i> sp. Thick Sepals (AE Orchard 1547)	+	E		11
<i>Stackhousia scoparia</i>	+	E		
<i>Tripterococcus brunonis</i> (PHOTO 2)	+	E		11
Centrolepidaceae				
<i>Aphelia brizula</i>	E			9
<i>Aphelia nutans</i> (PHOTO 3)	E			9
<i>Aphelia</i> sp. Albany (B. Briggs 596)	E			13
<i>Centrolepis aristata</i>	E			9,12
<i>Centrolepis drummondiana</i>	E			11
<i>Centrolepis cephaloformis</i> subsp. <i>cephaloformis</i>	+	+		5,9
<i>Centrolepis glabra</i>	E			12
<i>Centrolepis humillima</i>	+	E		3,5
<i>Centrolepis pilosa</i>	+	E		11
<i>Centrolepis polygyna</i>	+	+		5,12
<i>Centrolepis strigosa</i> subsp. <i>strigosa</i>	E			9
Chenopodiaceae				
<i>Atriplex acutibractea</i> subsp. <i>acutibractea</i>	+	+		4,5
<i>Atriplex acutibractea</i> subsp. <i>karoniensis</i>		+		4,5
<i>Atriplex cinerea</i>	+	+		1,3,5
<i>Atriplex exilifolia</i>		+		3,5
<i>Atriplex isatidea</i>	+	+		1
<i>Atriplex lindleyi</i> subsp. <i>inflata</i> (PHOTO 4)	E			4,5
<i>Atriplex nummularia</i> subsp. <i>spathulata</i>		+		1
<i>Atriplex paludosa</i> subsp. <i>cordata</i>	+	+		14
* <i>Atriplex prostrata</i>	+			2
<i>Atriplex vesicaria</i>		+		1
* <i>Chenopodium album</i>	+			15
<i>Chenopodium curvispicatum</i>		+		14
<i>Chenopodium desertorum</i> subsp. <i>desertorum</i>		+		11
* <i>Chenopodium murale</i>	+			15
<i>Dysphania cristatum</i>	+			9



Scientific name	Arid	Nuyts	Cons Code	Habitat
<i>Dysphania melanocarpum</i> forma <i>melanocarpum</i>		+		5
<i>Enchytraea tomentosa</i> var. <i>tomentosa</i>	+	+		16
<i>Eriochiton sclerolaenoides</i>		+		5,11
<i>Maireana erioclada</i>		+		5
<i>Maireana lobiflora</i>		+		5,14
<i>Maireana oppositifolia</i>	+	+		4,5
<i>Maireana radiata</i>		+		4,5
<i>Maireana sedifolia</i>		+		4,5
<i>Maireana trichoptera</i> (PHOTO 1)		+		14
<i>Maireana turbinata</i>		+		5,14
<i>Rhagodia baccata</i> (PHOTO 2)	E			9
<i>Rhagodia crassifolia</i>	+	+		1,3,14
<i>Rhagodia preissii</i> subsp. <i>preissii</i>	+	+		1,2,5,14
<i>Rhagodia ulicina</i>		+		14
<i>Salicornia blackiana</i> (was <i>Sarcocornia</i>)	+	+		1,2,3
<i>Salicornia quinqueflora</i> (was <i>Sarcocornia</i>)	+			2
<i>Salsola australis</i>	+	+		1
<i>Sclerolaena brevifolia</i>	+	+		4,5,14
<i>Sclerolaena diacantha</i>		+		5
<i>Sclerolaena obliquicuspis</i>		+		5,14
<i>Sclerolaena patenticuspis</i>		+		5,14
<i>Sclerolaena uniflora</i>		+		1,5,14
<i>Sueada australis</i>	+	+		9
<i>Tecticornia disarticulata</i>		+		11,14
<i>Tecticornia halocnemoides</i>	+	+		2,5,14
<i>Tecticornia indica</i> subsp. <i>bidens</i>	+	+		2,3
<i>Tecticornia lepidosperma</i>		+		3,5
<i>Tecticornia moniliformis</i>		?E		3,5

Scientific name	Arid	Nuyts	Cons Code	Habitat
<i>Tecticornia pergranulata</i> subsp. <i>pergranulata</i>	E			2
<i>Tecticornia pterygosperma</i> subsp. <i>ptyrgosperma</i>	+	+		5,14
<i>Tecticornia syncarpa</i>	+	E		1,2,3
<i>Threlkeldia diffusa</i>	+	+		1,2,3
Colchicaceae				
<i>Wurmbea cernua</i>	E			9
<i>Wurmbea sinora</i>	+	+		3,14
<i>Wurmbea tenella</i>	+	+		9,14
Convolvulaceae				
<i>Convolvulus angustissimus</i> subsp. <i>angustissimus</i>		+		5,14
<i>Convolvulus remotus</i>	+	+		5,7, 14
* <i>Cuscuta planifolia</i> (was <i>Epithymum</i>)	+			1
<i>Dichondra repens</i>	+	+		1,9, 14
<i>Wilsonia backhousei</i>	+			1
<i>Wilsonia humilis</i> (PHOTO 3)		+		3,14
<i>Wilsonia rotundifolia</i>	+			9
Crassulaceae				
* <i>Crassula alata</i>	+			15
<i>Crassula closiana</i>	E			1,9, 13
<i>Crassula colligata</i> subsp. <i>lamprosperma</i>	+	+		16
<i>Crassula colorata</i> var. <i>acuminata</i>	+			11
<i>Crassula colorata</i> var. <i>colorata</i> (PHOTO 4)	+			9
* <i>Crassula decumbens</i>	+			15
<i>Crassula exserta</i>	+	+		16
<i>Crassula extrorsa</i>	+			9,11
* <i>Crassula natans</i> var. <i>minus</i>	+			9
<i>Crassula tetramera</i>	+			8
Cupressaceae				
<i>Callitris canescens</i>	E			11
<i>Callitris drummondii</i>	E			5



Scientific name	Arid	Nuyts	Cons Code	Habitat
<i>Callitris preissii</i>	+	+		16
<i>Callitris roei</i>	E			5
Cyperaceae				
<i>Ammothryon grandiflorus</i> (was <i>Schoenus</i>)	+			1,6
<i>Carex inversa</i>	E			13
<i>Carex thecata</i>	E			11,14
<i>Caustis dioica</i>	E			6,7
<i>Chorizandra enodis</i>	E			12
<i>Cyathochaeta equitans</i>	E			6
* <i>Cyperus tenellus</i>	+			9
<i>Eleocharis acuta</i>	E			13
<i>Eleocharis pusilla</i>	+			9
<i>Ficinia marginata</i> (was <i>Isolepis</i>)	+			11
<i>Ficinia nodosa</i>	+	+		1
<i>Gahnia ancistrophylla</i>	+	E		9,11
<i>Gahnia aristata</i>	E			9,14
<i>Gahnia decomposita</i> (PHOTO 1)	E			13
<i>Gahnia deusta</i>		E		1,11
<i>Gahnia</i> sp. South West (Wilson & Frank 9266)	+	E		1,11,14
<i>Gahnia</i> sp. L (K. Newbey 7888)	E			11,14
<i>Gahnia trifida</i>	+	E		3,13
<i>Isolepis australiensis</i>	+			13
<i>Isolepis cernua</i> var. <i>cernua</i>	+	E		2,9,13
<i>Isolepis congrua</i>	E			9
<i>Isolepis cyperoides</i>	E			13
<i>Isolepis producta</i>	E			9
<i>Isolepis stellata</i>	E			11,13

Scientific name	Arid	Nuyts	Cons Code	Habitat
<i>Lepidosperma carphoides</i>	+	E		13
<i>Lepidosperma drummondii</i>	+	E		9,11
<i>Lepidosperma fairallianum</i>	E			9
<i>Lepidosperma fimbriatum</i>	E			7
<i>Lepidosperma gladiatum</i> (PHOTO 2)	+	+		1
<i>Lepidosperma gracile</i>	E			9
<i>Lepidosperma leptostachyum</i>	E			7,13
<i>Lepidosperma resinosum</i>	E			9
<i>Lepidosperma rigidulum</i>	E			4,9
<i>Lepidosperma sanguioletum</i>	+	?E		11
<i>Lepidosperma squamatum</i>	E			4,6,7
<i>Lepidosperma tenue</i>	E			4,6,7
<i>Lepidosperma</i> sp. Mount Burdett (Burgman 3287)	E			8
<i>Lepidosperma</i> sp. Saltbush Hill (K. Newbey 4118)	E			6,7
<i>Lepidosperma</i> sp. Z (PG Wilson 10177)	E			4
<i>Lepidosperma</i> sp. Mount Ragged (K. Newbey 1858)	e			8
<i>Merelotia microcarpa</i> (was <i>Tetraria</i>)	E			8
<i>Madaerina acuta</i> (was <i>Baumea</i>)	E			13
<i>Madaerina arthrophylla</i> (was <i>Baumea</i>)	+			13
<i>Madaerina juncea</i> (was <i>Baumea</i>)	+	E		3,13
<i>Madaerina preissii</i> (was <i>Baumea</i>)	E			13
<i>Mesomelaena graciliceps</i>	E			6
<i>Mesomelaena stygia</i> subsp. <i>stygia</i> (PHOTO 3)	+	E		11
<i>Mesomelaena tetragona</i> (PHOTO 4)	E			6,13
<i>Netrostylis</i> sp. Mount Madden (Turley 40/87, was <i>Tetraetria</i>)	+	E		11, 14
<i>Schoenus benthamii</i>	E			9,12
<i>Schoenus brevisetis</i>	E			6
<i>Schoenus caespiticulus</i>	+	E		11
<i>Schoenus curvifolius</i>	+			6
<i>Schoenus golbifer</i>	+			11
<i>Schoenus humilis</i>	+			11,12
<i>Schoenus laevigatus</i>	E			9



Scientific name	Arid	Nuyts	Cons Code	Habitat
<i>Schoenus lanatus</i>	+	E		1,14
<i>Schoenus nanus</i>	E			8,9
<i>Schoenus nitens</i>	+	E		2
<i>Schoenus obtusifolius</i>	E			6,7
<i>Schoenus odontocarpus</i>	E			6,7
<i>Schoenus pleiostemoneus</i>	E			6,7,14
<i>Schoenus plumosus</i>	E			13
<i>Schoenus racemosus</i>	+	+		5,8
<i>Schoenus sculptus</i>	E			9
<i>Schoenus sesquispiculus</i>	E			
<i>Schoenus subbarbatus</i>	E			6,7
<i>Schoenus subfascicularis</i>	E			11
<i>Schoenus subflavus</i> subsp. <i>subflavus</i>	E			7,11
<i>Schoenus subflavus</i> subsp. <i>hispid culms</i> (K.Newbey 8278)	+	E		7,11
<i>Schoenus subflavus</i> subsp. <i>long leaves</i> (K.Wilson 2 865)	E			7,9
<i>Schoenus submicrostachyus</i>	E			13
<i>Schoenus</i> sp. <i>Broad Sheath</i> (K.Newbey 2633)	E			7,9
<i>Trichostularia aphylla</i>	E			11
<i>Trichostularia compressa</i>	E			7
<i>Trichostularia newbeyi</i> (was sp. <i>Hopetoun</i> (Bennett 646))	E			11
Dasypogonaceae				
<i>Calectasia jubilaea</i>	E			7

Scientific name	Arid	Nuyts	Cons Code	Habitat
Dennstaedtiaceae				
<i>Pteridium esculentum</i> (PHOTO 1)	+			13
Dilleniaceae				
<i>Hibbertia acerosa</i> (PHOTO 2)	E			7
<i>Hibbertia andrewsiana</i>	E			7
<i>Hibbertia cueniformis</i> (PHOTO 3)	E			1
<i>Hibbertia graciliceps</i>	+	E		9,11
<i>Hibbertia hamata</i>	E			4,9
<i>Hibbertia inclusa</i>	E			7,12
<i>Hibbertia psilocarpa</i>	E			9
<i>Hibberia pungens</i>	+	+		4,5, 11
<i>Hibbertia racemosa</i>	+	E		6,7
<i>Hibbertia lineata</i> (was <i>recurvifolia</i>)	E			4
<i>Hibbertia rostellata</i>	+	E		11
<i>Hibbertia rupicola</i>	E			16
<i>Hibbertia ulicifolia</i>	E			4
<i>Hibbertia verrucosa</i>	E			5
Droseraceae				
<i>Drosera australis</i>	+	E		16??
<i>Drosera drummondii</i> (was <i>menziesii</i> subsp. <i>penicillaris</i>)	+	E		11
<i>Drosera glanduligera</i>	E			16
<i>Drosera huegelii</i>	E			6,7
<i>Drosera intricata</i>	E			7,9
<i>Drosera leucoblasta</i>	+			10
<i>Drosera menziesii</i> (was subsp. <i>menziesii</i>) (PHOTO 4)	E			6,9
<i>Drosera moorei</i>	E			9
<i>Drosera neesii</i> subsp. <i>neesii</i>	E			9
<i>Drosera ramellosa</i>	+			3
<i>Drosera scirpoidea</i>	E			8
<i>Drosera</i> sp branched styles (S Coffee 193) (was <i>macrantha</i> subsp. <i>macrantha</i>)	+	E		16
<i>Drosera subhirtella</i>	E			9



Scientific name	Arid	Nuyts	Cons Code	Habitat
<i>Drosera trichocaulis</i> (was <i>paleacea</i>)	E			7,11
<i>Drosera zonaria</i>	E			6
<i>Drosera trichocaulis</i> (was <i>paleacea</i>)	E			7,11
Ericaceae (Epacridaceae)				
<i>Acrotriche cordata</i>	+	+		1,14
<i>Acrotriche</i> sp. Israelite Bay (Hislop/Hort 2630)	+	+		5
<i>Acrotriche patula</i>		+		14
<i>Acrotriche ramiflora</i>	+	+		14
<i>Andersonia caerulea</i>	E			11
<i>Andersonia micrantha</i>	E			6,7
<i>Andersonia macranthera</i>	+	E		11
<i>Andersonia parvifolia</i> (PHOTO 1)	+	E		6,9
<i>Andersonia sprengeloides</i>	+	E		11
<i>Andersonia</i> sp. Kulin (J. Powell 2588)	+	E		11
<i>Brachyloma geissoloma</i> subsp. <i>geissoloma</i>	+	E		16
<i>Brachyloma geissoloma</i> subsp. <i>ovatum</i>	E			16
<i>Brachyloma mogan</i>	E			7
<i>Conostephium drummondii</i>	+	E		11
<i>Conostephium papillosum</i>	+	E		11
<i>Dielsiodoxa oligarrhenoides</i>	+	E		7
<i>Dielsiodoxa propullans</i>	E			11
<i>Leucopogon apiculatus</i>	E			7
<i>Leucopogon assimilis</i>	E			6,7,11
<i>Leucopogon bossiaeae</i>		e	2	11
<i>Leucopogon carinatus</i>	E			7
<i>Leucopogon compactus</i>	E		4	11
<i>Leucopogon fimbriatus</i>	E			11

Scientific name	Arid	Nuyts	Cons Code	Habitat
<i>Leucopogon interruptus</i>	E			9
<i>Leucopogon obtusatus</i>	E			7
<i>Leucopogon multiflorus</i>	E			1,9
<i>Leucopogon oppositifolius</i>	E			9
<i>Leucopogon obovatus</i> subsp. <i>obovatus</i>	+	E		1,9
<i>Leucopogon obovatus</i> subsp. <i>revolutus</i>	E			9
<i>Leucopogon remotus</i>	+	E		9
<i>Leucopogon parviflorus</i>	E			1
<i>Leucopogon rigidus</i>	E			9
<i>Leucopogon rotundifolius</i>	E			11
<i>Leucopogon woodsi</i>	E			7
<i>Leucopogon</i> sp. Cape arid (Paxman 50)	+		2	6,8, 11
<i>Leucopogon</i> sp. Coujinup (Burgmann 1085)	+	E		7,11
<i>Leucopogon</i> sp. Kau Rock (Burgmann 1126)	+	E		9,11
<i>Leucopogon</i> sp. Mt Heywood (M Burgman 1211) (was <i>brevicuspis</i>)	+	E		11
<i>Leucopogon</i> sp. Newdegate (Hislop 3585)	E			11
<i>Leucopogon</i> sp. Israelite Bay (GF Craig 2558)	+	E		
<i>Lissanthe pleurandroides</i>	E			11
<i>Lissanthe rubicunda</i>	E			11
<i>Lysinema cilatum</i> (PHOTO 2)	E			9
<i>Lysinema pentapeltum</i>	+	E		11
<i>Needhamiella pumilio</i> (PHOTO 3)	+	+		11
<i>Oligarrhena micrantha</i> (PHOTO 4)	+	E		13
<i>Styphelia breviflora</i> (was <i>Leucopogon</i>)	E			11
<i>Styphelia discolor</i> (was <i>Astrolooma ciliatum</i>)	E			8,9
<i>Styphelia epacridis</i> (was <i>Astrolooma</i>)	+	E		16
<i>Styphelia compacta</i>	E			6
<i>Styphelia crassifolia</i> (was <i>Leucopogon</i>)	E			11
<i>Styphelia cuneifolia</i> (was <i>Leucopogon</i>)	+	E		7,8,9
<i>Styphelia exserta</i>	+	E		14
<i>Styphelia hainesii</i>	+	+		11,14
<i>Styphelia intertexta</i>	E			11,14
<i>Styphelia prostrata</i>	E			7
<i>Styphelia tecta</i> (was <i>Astrolooma tectum</i>)	E			11



Scientific name	Arid	Nuyts	Cons Code	Habitat
Euphorbiaceae				
<i>Adriana quadripartita</i>	+	+		11
<i>Beyeria latifolia</i>	E			9
<i>Beyeria lechenaultii</i>	+	+		5,14
<i>Beyeria simplex</i>	e			8
<i>Beyeria sulcata</i>	+			10
<i>Beyeria viscosa</i>	E			1
<i>Euphorbia drummondii</i>	+	+		11,15
* <i>Euphorbia maculata</i>	+			1,15
<i>Euphorbia multifaria</i>		+		5
* <i>Euphorbia paralias</i>	+	+		1
* <i>Euphorbia peplus</i>	+			13,15
<i>Euphorbia verrucitesta</i>		+		5
<i>Monotaxis paxii</i>	+	E		11
<i>Ricinocarpus megalocarpus</i>	E			9
* <i>Ricinus communis</i>	+	+		13,15
<i>Stachystemon brachyphyllus</i>	E			3,11
<i>Stachystemon brevifolius</i>	E			8,11
<i>Stachystemon polyandrus</i>	E			11
<i>Stachystemon vinosus</i>	E			9
<i>Stachystemon virgatus</i>	E			11
Fabaceae				
<i>Acacia aemula</i> subsp. <i>aemula</i>	E			9
<i>Acacia anceps</i>	+	+		1,14
<i>Acacia biflora</i>	E			9
<i>Acacia bracteolata</i>	+	E		10
<i>Acacia campyloclada</i>	E			10

Scientific name	Arid	Nuyts	Cons Code	Habitat
<i>Acacia carnulosa</i>	+			4,9
<i>Acacia cochlearis</i>	+	+		1,2
<i>Acacia coniniana</i>	+	E		9
<i>Acacia crassiuscula</i>	E			3,9
<i>Acacia crassuloides</i>	E			10
<i>Acacia crispula</i>	E			1,9
<i>Acacia cupularis</i>	+	+		4,5
<i>Acacia cyclops</i> (PHOTO 1)	+	+		1,11
<i>Acacia delphina</i>	E			4
<i>Acacia dempsteri</i>	+			3,9
<i>Acacia diaphana</i>	+			5
<i>Acacia empiloclada</i>	E			3
<i>Acacia erinacia</i> (PHOTO 2)	+	+		5,10
<i>Acacia euthyphylla</i>	E			5
<i>Acacia evenulosa</i>	+			1
<i>Acacia excentrica</i>	+	+		1
<i>Acacia glaucoptera</i>	+	E		5
<i>Acacia gonophylla</i>	+	E		1,2,3
<i>Acacia hakeoides</i>	+	+		5
<i>Acacia lachnophylla</i>	+			5
<i>Acacia lasiocalyx</i> (PHOTO 3)	E			9
<i>Acacia latipes</i> subsp. <i>latipes</i>	E			8,9
<i>Acacia merrallii</i>	+	+		4,5, 10
<i>Acacia mutabilis</i> subsp. <i>angustifolia</i>	+	+		5
<i>Acacia mutabilis</i> subsp. <i>mutabilis</i>	+	E		3,14
<i>Acacia myrtifolia</i> (PHOTO 4)	+	E		9
<i>Acacia nigricans</i>	+	E		1,9
<i>Acacia nitidula</i>	E			9
<i>Acacia nivea</i>	E			3,9
<i>Acacia oswaldii</i>		+		5
<i>Acacia pachyphylla</i>	+	E		16
<i>Acacia papyrocarpa</i>		+		5
<i>Acacia pravifolia</i>	+	+		8
<i>Acacia pinguisculosa</i>	+	E		9



Scientific name	Arid	Nuyts	Cons Code	Habitat
<i>Acacia pritzeliana</i>	E			4,9
<i>Acacia pulchella</i> var. <i>goadbeyi</i>	E			6,7
<i>Acacia resinosa</i>	+			4
<i>Acacia robiniae</i>	E			9
<i>Acacia rostellifera</i>	+	E		1
<i>Acacia saligna</i> subsp. <i>wheatbelt</i> (Maslin 8602) (was <i>pruinescens</i>)	E			9
<i>Acacia sorophylla</i>	E			10
<i>Acacia subcaerulea</i>	+	E		9,11
<i>Acacia sulcata</i> subsp. <i>platyphylla</i>	+	+		4,9, 14
<i>Acacia triptycha</i>	+	E		4,9, 14
<i>Acacia varia</i> var <i>parviflora</i>	E			4,9
<i>Acacia verricum</i>	+	E		9,14
<i>Acacia</i> sp. P176 (Maslin 5831)	E			9
<i>Acacia</i> sp. Cape Arid (Weston 8164)	e			8
<i>Aotus</i> sp. Esperance (P.G. Wilson 7904)	E			11
<i>Bossiaea dentata</i> (PHOTO 1)	E			8,9, 13
<i>Bossiaea leptacantha</i>	+	+		3,11
<i>Bossiaea praetissima</i>	E			9
<i>Bossiaea preissii</i>	+	E		11,14
<i>Bossiaea simulata</i>	+		2	3
<i>Bossiaea walkeri</i> (PHOTO 2)	+	+		3,9, 14
<i>Callistachys lanceolata</i> (south coast variant)	E			13
<i>Chorizema aciculare</i>	+	E		11
<i>Chorizema illicifolium</i>	E			9
<i>Chorizema nervosum</i>	+	E		8
<i>Chorizema obtusifolium</i>	+	E		7,11
<i>Daviesia apiculata</i>	+	E		4,11

Scientific name	Arid	Nuyts	Cons Code	Habitat
<i>Daviesia aphylla</i> (was <i>benthamii</i> subsp. <i>acanthoclonia</i>)	+	+		5,10
<i>Daviesia argillacea</i>	E			5
<i>Daviesia dilatata</i>	E			7,11
<i>Daviesia divaricata</i> (PHOTO 3)	E			7
<i>Daviesia grossa</i>	e			8
<i>Daviesia incrassata</i> subsp. <i>incrassata</i>	E		1	7
<i>Daviesia incrassata</i> subsp. <i>reversifolia</i>		E		
<i>Daviesia inflata</i>		E		4,5
<i>Daviesia lancifolia</i>	E			8
<i>Daviesia major</i>	+	E		6,7
<i>Daviesia retrorsa</i>	+	+		11,14
<i>Daviesia teteretifolia</i>	+	E		11
<i>Dillwynia acerosa</i>	+			5
<i>Dillwynia</i> sp. mallee (Archer 1709959) (was <i>divaricata</i>)	E			4,7
<i>Dillwynia pungens</i> (PHOTO pages 14, 19)	E			8,9
<i>Dillwynia uncinta</i>	+	E		3,4
* <i>Dipogon lignosus</i>		+		15
<i>Eutaxia empetrifolia</i>	E			7
<i>Eutaxia inuncta</i>	E			7,9
<i>Eutaxia lutea</i>	E			7,11
<i>Eutaxia major</i>	E			9
<i>Eutaxia myrtifolia</i>	E			9
<i>Eutaxia parvifolia</i>	E			9
<i>Gastrolobium discolor</i>	+			9
<i>Gastrolobium bilobum</i>	E			9
<i>Gastrolobium latifolium</i>	E			9
<i>Gastrolobium muscaceum</i>	+	E		11
<i>Gastrolobium parviflorum</i> (PHOTO 4)	+	+		16
<i>Gastrolobium pycnostachyum</i> (PHOTO page 27)	e			8
<i>Gastrolobium tergiversum</i>	e			8
<i>Glycine peratosa</i>	+			9
<i>Glycine rubiginosa</i>		+		5
<i>Gompholobium baxteri</i>	+	E		11



Scientific name	Arid	Nuyts	Cons Code	Habitat
<i>Gompholobium confertum</i> (PHOTO 1)	E			7,11,13
<i>Gompholobium cyaninum</i>	E			7,11
<i>Gompholobium knightianum</i> (PHOTO 2)	+	E		11
<i>Gompholobium marginatum</i>	E			7
<i>Gompholobium polymorphum</i>	E			7,9
<i>Gompholobium scabrum</i>	+	E		11,13
<i>Gompholobium venustum</i> (PHOTO page 25)	E			8,9
<i>Gompholobium viscidulum</i>	E			7
<i>Goodia medicaginea</i>	E			9
<i>Hovea pungens</i>	E			7
<i>Hovea trisperma</i>	E			6
<i>Indigofera australis</i>	+			9
<i>Isotropis cuneifolia</i>	+	E		7,9,13
<i>Isotropis drummondii</i>	+			9
<i>Jacksonia capitata</i>	+	E		11
<i>Jacksonia condensata</i>	+	E		7,11
<i>Jacksonia spinosa</i>	E			1,7,11
<i>Jacksonia venosa</i>	+	E		11
<i>Jacksonia viscosa</i>	E			7,9,11
<i>Kennedia beckxiana</i>	e			8
<i>Kennedia coccinea</i> subsp. <i>esotera</i>	+	E		4,10
<i>Kennedia nigricans</i>	E			1,9
<i>Kennedia prostrata</i> (PHOTO 3)	E			6,9
<i>Labichea lanceolata</i> subsp. <i>lanceolata</i>	E			9
<i>Labichea lanceolata</i> subsp. <i>brevifolia</i>	+	E		4
* <i>Lotus angustissimus</i>	+			15
<i>Lotus cruentus</i>		+		5
* <i>Medicago minima</i>	+	+		13,15
* <i>Medicago polymorpha</i>	+	+		15

Scientific name	Arid	Nuyts	Cons Code	Habitat
* <i>Melilotus indicus</i>	+			15
<i>Mirbelia granitica</i>	+			9
<i>Mirbelia microphylla</i>	+			9,10
* <i>Ornithopus compressus</i>	+			9,15
<i>Paraserianthes lophantha</i> subsp. <i>lopantha</i>	+			9
<i>Pultenaea elachista</i>	+	+		5,14
<i>Pultenaea ericifolia</i>	E			7,9
<i>Pultenaea heterochila</i>	+	+		11,14
<i>Pultenaea indira</i> subsp. <i>indira</i>	E			11
<i>Pultenaea purpurea</i>	+			3,4,9
<i>Pultenaea rotundifolia</i>	E			9
<i>Pultenaea spinulosa</i>	E			11
<i>Pultenaea strobilifera</i>	E			9,11
<i>Pultenaea verruculosa</i>	E			11
<i>Senna artemisioides</i> subsp. <i>filifolia</i>	+	+		16
<i>Senna artemisioides</i> subsp. <i>artemisioides</i>		+		5
<i>Senna artemisioides</i> subsp. <i>coriacea</i>		+		11
<i>Senna glutinosa</i> subsp. <i>chatelainiana</i>	+			9
<i>Senna</i> sp. Pallinup River (J.W. Green 4847)	+	+		5,14
<i>Sphaerolobium daviesioides</i>	+	+		7,9, 11
<i>Sphaerolobium drummondii</i> (PHOTO 4)	E			7
<i>Sphaerolobium linophyllum</i>	E			6
<i>Swainsona affinis</i>		+		5
<i>Swainsona campestris</i>		+		5
<i>Swainsona colutoides</i>	+			4,5
<i>Templetonia battii</i>	+			3,10
<i>Templetonia retusa</i>	+	+		1,14
<i>Templetonia rossii</i>	+	E		11,14
* <i>Trifolium angustifolium</i>	+			9
* <i>Trifolium arvense</i>	+			15
* <i>Trifolium campestre</i> var. <i>campestre</i>	+	+		13
* <i>Trifolium glomeratum</i>	+			15
* <i>Trifolium subterraneum</i>	+			15
<i>Viminaria juncea</i>	+			13



Scientific name	Arid	Nuyts	Cons Code	Habitat
Frankeniaceae				
<i>Frankenia densa</i>	+	+		5,14
<i>Frankenia desertorum</i>	+			5
<i>Frankenia interioris</i>		+		5
<i>Frankenia sessilis</i>	+			12
<i>Frankenia tetrapetala</i>	+			2
Gentianaceae				
* <i>Centaurium erythraea</i>	+	+		14,15
* <i>Centaurium teniflorum</i>	+			1
<i>Schenkia australis</i>	+	+		16
<i>Sebea ovata</i>	E			9,12
Geraniaceae				
* <i>Erodium botrys</i>	+			9
* <i>Erodium cicutarium</i>	+	+		4,5, 15
<i>Erodium carolinianum</i>		+		5
<i>Erodium crinitum</i>	+			9
<i>Erodium cygnorum</i> subsp. <i>cygnorum</i>	+			9,10
<i>Geranium retrosum</i>	E			9
<i>Geranium solanderi</i>	E			6,7
<i>Pelargonium australe</i>	E			9
* <i>Pelargonium capitatum</i>	+			1,15
<i>Pelargonium drummondii</i>	+	E		1,9
<i>Pelargonium littorale</i> (PHOTO 1)	+	E		1,2,4
Goodeniaceae				
<i>Anthotium humile</i>	E			12

Scientific name	Arid	Nuyts	Cons Code	Habitat
<i>Coopernookia polygalacea</i> (PHOTO2)	E			4
<i>Coopernookia strophiolata</i>	+	+		11,14
<i>Dampiera fasciculata</i>	E			11
<i>Dampiera lavandulacea</i>	+	E		16
<i>Dampiera loranthifolia</i>	E			11
<i>Dampiera parvifolia</i>	+	E		11
<i>Dampiera sacculata</i>	+	E		7
<i>Goodenia arguta</i> (was <i>Velleia</i>)	+	+		11,14
<i>Goodenia affinis</i>	+	E		5,11
<i>Goodenia berardiana</i>	+			9
<i>Goodenia concinna</i>	+	+		5,9, 11
<i>Goodenia cycnopotamica</i> (was <i>Velleia</i>)	+			9
<i>Goodenia decurvisa</i>	+	+		9,11
<i>Goodenia exigua</i>	E			3
<i>Goodenia incana</i> (PHOTO 3)	E			4,5,11
<i>Goodenia krauseana</i>	+			9
<i>Goodenia laevis</i> subsp. <i>laevis</i>	+		3	4
<i>Goodenia micrantha</i>	E			9,12
<i>Goodenia pinnatifida</i>	+	+		9,14
<i>Goodenia pterigosperma</i>	+	E		7,11
<i>Goodenia quadrilocularis</i>	E			9
<i>Goodenia pulchella</i> subsp. <i>wheatbelt</i> (Hutt & Sage 795)	E			9
<i>Goodenia quasilibera</i>	+			3
<i>Goodenia scapigera</i> subsp. <i>scapigera</i>	+	E		16
<i>Goodenia trinervis</i> (was <i>Velleia</i>)	E			6,9, 12
<i>Goodenia varia</i>		+	2	14
<i>Goodenia viscida</i>		+	2	9,12
<i>Lechenaultia formosa</i> (PHOTO 4)	+	E		11
<i>Lechenaultia papillata</i>	E			8
<i>Lechenaultia tubiflora</i>	E			11
<i>Scaevola archeriana</i>	E			11
<i>Scaevola argentea</i>	+			3
<i>Scaevola brookeana</i>	e			8
<i>Scaevola bursariifolia</i>	+	E		5,11



Scientific name	Arid	Nuyts	Cons Code	Habitat
<i>Scaevola crassifolia</i> (PHOTO 1)	+	E		1
<i>Scaevola cueniformis</i>	+	E		7,11
<i>Scaevola globulifera</i>	E			9,11
<i>Scaevola myrtifolia</i>	+	+		5,11,14
<i>Scaevola spinescens</i>	+	+		16
<i>Scaevola</i> sp. Mt Ragged (M Goods GG004)	e			5
<i>Scaevola thesoides</i> subsp. <i>filiifolia</i>	+	E		11
Gyrostemonaceae				
<i>Cypselocarpus haloragooides</i>	E			6,11
<i>Gyrostemon racemigera</i>	+			4,5
<i>Gyrostemon sheathii</i>	+	E		1
Haemodoraceae				
<i>Anigozanthos bicolor</i> subsp. <i>minor</i>	E		T	11
<i>Anigozanthos rufus</i> (PHOTO 2)	+	E		11
<i>Conostylis bealiana</i>	E			7
<i>Conostylis phathyrantha</i>	+	E		11,13
<i>Conostylis seorsiflora</i> subsp. <i>seorsiflora</i>	E			7,11
<i>Conostylis setigera</i> subsp. <i>setigera</i>	E			7,11
<i>Haemodorum discolor</i>	E			11
<i>Haemodorum brevisepalum</i>	E			11
<i>Haemodorum spicata</i>	E			11
<i>Tribonanthes violacea</i> (PHOTO 3)	E			9
Haloragaceae				
<i>Glischrocaryon angustifolium</i>	+	E		11
<i>Glischrocaryon aureum</i>	+	+		9,11
<i>Glischrocaryon flavescentia</i>	+	+		5,9, 14

Scientific name	Arid	Nuyts	Cons Code	Habitat
<i>Gonocarpus nodulosus</i>	E			9
<i>Gonocarpus pycnostachyus</i>	E			7
<i>Gonocarpus scordioides</i>	E			4,9
<i>Haloragis acutangula</i>	+			1,2
<i>Haloragis digyna</i>	E			1,14
<i>Haloragis dura</i>	+			5,14
<i>Haloragis hamata</i>	+			5,14
<i>Haloragodendron racemosum</i>	+			9
<i>Mriophyllum balladonense</i>	+			9
<i>Mriophyllum petraeum</i>	E		4	9
<i>Myriophyllum</i> sp. Mt. Arid (Sweetman 6767)	e			9
<i>Mriophyllum tillaeoides</i>	E			9,13
Hemerocallidaceae				
<i>Agrostocrinum scabrum</i> subsp. <i>scabrum</i>	E			7,9
<i>Caesia occidentalis</i>	E			13
<i>Caesia viscosa</i>	e			6,7
<i>Chaemaescilla corymbosa</i>	E			11
<i>Corynotheca panda</i>	+	E		11
<i>Dianella brevicaulis</i>	+	E		5,14
<i>Dianella revoluta</i> var. <i>divaricata</i>	+	+		5,11
<i>Johnsonia acaulis</i> (PHOTO 4)	E			11
<i>Stawellia gymnocephala</i>	E			11
<i>Stypandra glauca</i>	+	+		9,14
<i>Tricoryne elatior</i>	+	+		11
<i>Tricoryne eyereana</i>	+	E		7,11
<i>Tricoryne tenella</i>	+	+		11,14
Hydatellaceae				
<i>Trithuria bibracteata</i>	E			12
<i>Trithuria austensis</i>	E			9



Scientific name	Arid	Nuyts	Cons Code	Habitat
Hydrocharitaceae				
<i>Ottelia ovalifolia</i> subsp. <i>ovalifolia</i> (PHOTO 1)	+			9
Hypericaceae				
<i>Hypericum gramineum</i>	+			9
<i>Hypericum japonicum</i>	+			9
Hypoxidaceae				
<i>Pauridia glabella</i> var. <i>glabella</i>	+	+		9,14
<i>Pauridia occidentalis</i>	+	E		14
<i>Pauridia vaginata</i> var. <i>vaginata</i>	E			9
Iridaceae				
* <i>Freesia hybrid</i>	+	+		15
* <i>Moraea setifolia</i> (PHOTO 2)	+			3,4
<i>Orthrosanthus multiflorus</i>	+	+		11,13
<i>Patersonia juncea</i>	+	E		4
<i>Patersonia lanata</i> var. <i>lanata</i>	+	E		7,11
<i>Patersonia occidentalis</i> var. <i>occidentalis</i> (PHOTO 3)	+	E		6,11
<i>Patersonia maxwellii</i>	+	E		11,13
* <i>Romulea rosea</i> var. <i>australis</i>	+			15
* <i>Romulea rosea</i> var. <i>rosea</i>	+			9
Isoetaceae				
<i>Isoetes australis</i>	+			9
<i>Isoetes muelleri</i>	+			9

Scientific name	Arid	Nuyts	Cons Code	Habitat
Juncaceae				
<i>Juncus bufonius</i>	+	+		9,13
* <i>Juncus capitatus</i>	+			9
<i>Juncus kraussii</i> subsp. <i>australiensis</i>	+	+		1,2
<i>Juncus pallidus</i>	+			13
Juncaginaceae				
<i>Cynogeton lineare</i>	+			13
<i>Cynogeton</i> sp. Condungup (R. Davies 10877)	E			9
<i>Triglochin centrocarpa</i>				
<i>Triglochin isingiana</i>	+	+		16
<i>Triglochin longicarpa</i> (PHOTO 4)	+			9
<i>Triglochin minutissima</i>	+	+		3,13
<i>Triglochin mucronata</i>	+			3,12,13
<i>Triglochin nana</i>	+	+		5,12,14
<i>Triglochin</i> sp. A (G. Keighery 2477)	+			3,9, 12
<i>Triglochin striata</i>	+			2,13
<i>Triglochin trichophora</i>	+			14
Lamiaceae				
<i>Hemigenia teretiuscula</i>	E			11
<i>Hemiphora exserta</i>	E			11
<i>Mentha satureioides</i>	+			9
<i>Microcorys barbata</i>	+	E		11
<i>Microcorys glabra</i>	E			4,7,11
<i>Microcorys purpurea</i>	E			9
<i>Microcorys subcanescens</i>	+	E		4,11
<i>Microcorys virgata</i>	E			7,11
<i>Prostanthera baxteri</i>	E			7,9,11
<i>Prostanthera serpyllifolia</i> subsp. <i>microphylla</i>	+			7,9,11
<i>Tercium</i> sp. Balladonia (Newbey 7380)		+		5
* <i>Salvia verbenaca</i>	+	+		5,14
* <i>Stachys arvensis</i>	+			15
<i>Westringia dampieri</i>	+	+		1,5



Scientific name	Arid	Nuyts	Cons Code	Habitat
<i>Westringia rigida</i> (PHOTO 1)	+	+		14
Lauraceae				
<i>Cassytha glabella</i> forma <i>casuarina</i>	E			1
<i>Cassytha glabella</i> forma <i>dispar</i>	+	+		1,4,7,11
<i>Cassytha melantha</i>	+	+		4
<i>Cassytha pomiformis</i>	+	E		7,11
<i>Cassytha racemosa</i> var. <i>racemosa</i>	+			6,10
<i>Cassytha racemosa</i> var. <i>pilosa</i>	+	E		6,10
Lentibulariaceae				
<i>Utricularia inaequalis</i>	E			13
<i>Utricularia menziesii</i> (PHOTO 2)	E			9,13
<i>Utricularia tenella</i>	E			9
Linaceae				
<i>Linum marginale</i>	+	E		5,11
Loganiaceae				
<i>Logania buxifolia</i> (PHOTO 3)	+	E		9,11,14
<i>Logania fasciculata</i>	E			11,14
<i>Logania micrantha</i>	E			11,14
<i>Logania stenophylla</i>	+	+		4,11,14
<i>Logania vaginalis</i>	E			1,9
<i>Orianthera callosa</i>	E			11
<i>Orianthera campanulata</i>	+	E		16
<i>Orianthera seryllifolia</i> subsp. <i>angustifolia</i>	E			9,11
<i>Phyllangium divergens</i>	+	E		9,11

Scientific name	Arid	Nuyts	Cons Code	Habitat
<i>Phyllangium paradoxum</i>	E			11,13
<i>Phyllangium sulcatum</i>	E			9
Loranthaceae				
<i>Amyema melaleucae</i>	+	+		4
<i>Amyema miquelii</i>	+	+		10
<i>Nuytsia floribunda</i>	+	E		11
Lythraceae				
* <i>Lythrum hyssopifolium</i>	+			13
Macarthuriaceae				
<i>Macarthuria apetala</i>	E			11
Malvaceae				
<i>Alogyne hakeifolia</i> (PHOTO 4)	+	+		5,14
<i>Alyogyne</i> sp. South Coast (AS George 289)	E			4
<i>Androcalva crispa</i>	E			9
<i>Androcalva cuneata</i>	E			4
<i>Commersonia crauropylla</i>	+			4,9
<i>Commersonia corniculata</i>	E			9
<i>Commersonia parviflorum</i>	E			11
<i>Guichenotia ledifolia</i>	+	E		5,14
<i>Lasiopetalum compactum</i>	+	E		7,9
<i>Lasiopetalum discolor</i>	+	E		1,11,14
<i>Lasiopetalum indutum</i>	+	E		11
<i>Lasiopetalum maxwellii</i>	E		2	9
<i>Lasiopetalum quinquenervum</i>	E			9
<i>Lasiopetalum rosmarinifolium</i>	+	E		11
<i>Lasiopetalum</i> sp. Mt. Ragged (THE Aplin 4349)	+	E		9,11
<i>Lawrenzia glomerata</i>		+		11
<i>Lawrenzia spicata</i>	+	+		2,3
<i>Lawrenzia squamata</i>	+	+		3,14
* <i>Malva parviflora</i>	+			13



Scientific name	Arid	Nuyts	Cons Code	Habitat
<i>Malva weimanniana</i>	+	+		9,14
<i>Radyera farragei</i>		+		11
<i>Sida hookeriana</i>	E			4,9
<i>Thomasia angustifolia</i>	+	E		9,11
<i>Thomasia cognata</i>	E			14
<i>Thomasia macrocalyx</i>	+	E		11
<i>Thomasia microphylla</i>	E			7
<i>Thomasia petalocalyx</i>	+	+		7,9,11
Marsileaceae				
<i>Marsilea drummondii</i>	+			9
Menyanthaceae				
<i>Ornduffia parnassifolia</i>	E			9,12
Montiaceae				
<i>Calandrinia brevipedata</i>	+	+		11
<i>Calandrinia calyptrata</i>	E			9,11
<i>Calandrinia corrigioloides</i>	+	E		11
<i>Calandrinia eremaea</i> (PHOTO 1)	+	+		3
<i>Calandrinia granulifera</i>	+	E		7,11
<i>Calandrinia</i> sp. Gypsum (Obems & Hancock F010/14)	+			12
<i>Calandrinia</i> sp. Kenwick (Keighery 10905)	E			9,12
* <i>Portulaca oleracea</i>	+	+		15
Myrtaceae				
<i>Agonis baxteri</i>	+	E		11,13
<i>Apectospermum spinescens</i>	+	E		4,7,11

Scientific name	Arid	Nuyts	Cons Code	Habitat
<i>Astartea asteroiodes</i>	E			13
<i>Astartea eobalta</i>	E		2	9
<i>Astus tetragonus</i>	+	E		9
<i>Austus wittweri</i>	+	E		8,14
<i>Austrobaeckea fasciculifolia</i>	E			9,11
<i>Austrobaeckea latens</i>	E			7,11
<i>Austrobaeckea uncinella</i>	+	E		11,13
<i>Baeckea crassifolia</i>	+			
<i>Baeckea latens</i>	E			8,11
<i>Baeckea</i> sp. Esperance (A Gunness 2435)	+	E		11
<i>Beaufortia empetrifolia</i>	+	E		11
<i>Beaufortia micrantha</i>	+			7
<i>Beaufortia raggadensis</i>	e		2	8
<i>Beaufortia schaueri</i> (PHOTO 2)	+	E		7
<i>Callistemon phoenicus</i>	+			9,11
<i>Calothamnus gracilis</i>	+	E		11
<i>Calothamnus quadrifidus</i> subsp. <i>quadrifidus</i>	+	E		16
<i>Calothamnus villosus</i>	E			8,9
<i>Calytrix decandra</i>	+	E		9,11
<i>Calytrix depressa</i>	+			7
<i>Calytrix hirta</i>	E			9
<i>Calytrix leschenaultii</i>	+	E		7,11
<i>Calytrix tetragona</i> (PHOTO 3)	+	+		11,14
<i>Chamelaucium axillare</i>	+	E		11
<i>Chamelaucium cilatum</i>	+	E		16
<i>Chamelaucium megalopetalum</i>	+	E		7,11
<i>Conothamnus aureus</i>	+	E		7
<i>Cyathostemon ambiguus</i>	+	E		7,11
<i>Cyathostemon blackettii</i>	+	E		11
<i>Darwinia diosmoides</i>	+	E		5,9
<i>Darwinia vestita</i> (PHOTO 4)	+	E		7,11
<i>Darwinia</i> sp. Mount Baring (Newbey 9775)	e			9
<i>Darwinia</i> sp. Mount Ragged (S. Barrett 663) (PHOTO page 26)	e		2	8
<i>Ericomyrtus serpyllifolia</i>	+			9



Scientific name	Arid	Nuyts	Cons Code	Habitat
<i>Eucalyptus angulosa</i>	+	+		11
<i>Eucalyptus angustissima</i>	+	E		3
<i>Eucalyptus annettae</i>	+	E		11,14
<i>Eucalyptus aspratilis</i>	+			9
<i>Eucalyptus brachycalyx</i>	+	+		5,11
<i>Eucalyptus calcarea</i>		+		14
<i>Eucalyptus conglobata</i> subsp. <i>conglobata</i>	+	+		5,14
<i>Eucalyptus connexa</i>	+	E		5,10
<i>Eucalyptus cooperiana</i>	+	E		14
<i>Eucalyptus cornuta</i> (PHOTO 1)	E			9
<i>Eucalyptus discreta</i>	+	E		5,14
<i>Eucalyptus diversifolia</i> subsp. <i>hesperia</i>		W		11,14
<i>Eucalyptus doratoxylon</i>	E			5,9
<i>Eucalyptus eremophila</i>	+	E		16
<i>Eucalyptus extensa</i>	E			4
<i>Eucalyptus extrica</i>	+	E		14
<i>Eucalyptus flocktoniae</i> subsp. <i>flocktoniae</i>	+	+		5,11,14
<i>Eucalyptus flocktoniae</i> subsp. <i>hebes</i>	+	E		5,14
<i>Eucalyptus fraseri</i> subsp. <i>fraseri</i>	+			9,10
<i>Eucalyptus fraseri</i> subsp. <i>melanobasis</i>	+			10
<i>Eucalyptus gracilis</i>	+	+		5,11,14
<i>Eucalyptus incrassata</i>	+	+		1,11
<i>Eucalyptus laevis</i>		E		14
<i>Eucalyptus lehmanii</i> subsp. <i>lehmanii</i>	E			7,8,9
<i>Eucalyptus lehmanii</i> subsp. <i>parallela</i>	E			9
<i>Eucalyptus leptocalyx</i> subsp. <i>leptocalyx</i>	+	E		7
<i>Eucalyptus leptocalyx</i> subsp. <i>petiolaris</i>		E		11
<i>Eucalyptus ligulata</i> subsp. <i>ligulata</i>	E		4	9

Scientific name	Arid	Nuyts	Cons Code	Habitat
<i>Eucalyptus littorea</i>	+	E	2	3
<i>Eucalyptus luculenta</i>	+	E	2	4,5,9
<i>Eucalyptus melanoxylon</i> (PHOTO 2)		+		5
<i>Eucalyptus micranthera</i>	+	E		7,11
<i>Eucalyptus noactites</i>	E			13
<i>Eucalyptus occidentalis</i>	E			13
<i>Eucalyptus oleosa</i> subsp. <i>ampliata</i>	+	+		5,14
<i>Eucalyptus oleosa</i> subsp. <i>cylindroidea</i>	+			5,14
<i>Eucalyptus optima</i>	E			5
<i>Eucalyptus ovularis</i>	+			5
<i>Eucalyptus phenax</i>	+	E		5,11
<i>Eucalyptus platycorys</i>	+			11
<i>Eucalyptus quadrans</i>	e			3,5
<i>Eucalyptus redunda</i>	E			4,7
<i>Eucalyptus rigidula</i>		E		11
<i>Eucalyptus rugosa</i>	+	+		5,14
<i>Eucalyptus scyphocalyx</i>	+	E		11
<i>Eucalyptus semiglobosa</i>	+	E	3	11,14
<i>Eucalyptus sporadica</i>	E			13
<i>Eucalyptus sweetmaniana</i>	E		2	7
<i>Eucalyptus tenera</i>	+			5,7,11
<i>Eucalyptus terebra</i>	+			5
<i>Eucalyptus tetraptera</i> (PHOTO 3)	E			7,9,11
<i>Eucalyptus tumida</i>	+	E		5,11
<i>Eucalyptus uncinata</i>	+	E		1,11
<i>Eucalyptus urna</i>	+	E		5
<i>Eucalyptus utilis</i>	+	E		2,11
<i>Eucalyptus valens</i>	+	E		5
<i>Eucalyptus varia</i> subsp. <i>varia</i>	E			11,13
<i>Eucalyptus x erythrandra</i>	E			8,9
<i>Eucalyptus yalatensis</i> (PHOTO 4)		W		14
<i>Euromyrtus maidenii</i>		E		11,14
<i>Hypocalymma asperum</i>	E			11



Scientific name	Arid	Nuyts	Cons Code	Habitat
<i>Kunzea acuminata</i>	e			9
<i>Kunzea affinis</i>	+	E		9,13
<i>Kunzea baxteri</i>	+	E		9
<i>Kunzea preissiana</i>	E			7,11
<i>Leptospermopsis incana</i>	E			9
<i>Leptospermopsis maxwellii</i>	+	E		7,9,11
<i>Leptospermum oligandra</i>	E			7,9
<i>Leptospermopsis</i> sp. Peak Charles (Newbey 5243)	E			8,9
<i>Melaleuca acuminata</i> subsp. <i>acuminata</i>	E			5
<i>Melaleuca brevifolia</i>	+	E		3,4,5
<i>Melaleuca calcicola</i>	+	E		5,14
<i>Melaleuca calycina</i>	E			7,13
<i>Melaleuca cincinnata</i>	+	E		4,5
<i>Melaleuca cuticularis</i> (PHOTO 1)	+	E		2
<i>Melaleuca elliptica</i>	+	E		9,11,14
<i>Melaleuca fulgens</i> subsp. <i>fulgens</i>	E			9
<i>Melaleuca glaberrima</i>	E			7,9
<i>Melaleuca globifera</i>	E			9
<i>Melaleuca halmaturorum</i>		E		14
<i>Melaleuca incana</i> subsp. <i>tenella</i>	E			13
<i>Melaleuca lanceolata</i> (PHOTOS 2, page 18)	+	+		11,14
<i>Melaleuca microphylla</i>	E			9,13
<i>Melaleuca nesophila</i>	E			11
<i>Melaleuca pauperiflora</i> subsp. <i>pauperiflora</i>	+			5
<i>Melaleuca pentagona</i> var. <i>latifolia</i> (PHOTO 3)	+	E		7,11
<i>Melaleuca pentagona</i> var. <i>raggedensis</i>	e			8
<i>Melaleuca plumea</i>	E			3,11
<i>Melaleuca pulchella</i>	+	E		11

Scientific name	Arid	Nuyts	Cons Code	Habitat
<i>Melaleuca quadrifaria</i>	+	+		5
<i>Melaleuca rigidifolia</i>	E			8
<i>Melaleuca scabra</i>	+	E		7,11
<i>Melaleuca societatis</i>	E			4
<i>Melaleuca striata</i>	+	E		7,11
<i>Melaleuca strobophylla</i>		+		5
<i>Melaleuca rigidifolia</i>	E			8
<i>Melaleuca subalaris</i>	+			3,5
<i>Melaleuca suberosa</i>	+	E		11,14
<i>Melaleuca subfalcata</i>	E			7
<i>Melaleuca thapsina</i>	+			13
<i>Melaleuca thymoides</i>	+	E		11
<i>Melaleuca thyoides</i>	+	E		3
<i>Melaleuca tuberculata</i> var. <i>macrophylla</i>	E			11
<i>Melaleuca tuberculata</i> var. <i>tuberculata</i>	E			7
<i>Melaleuca uncinata</i>	E			3,7, 11
<i>Melaleuca undulata</i>	+	E		5,9
<i>Melaleuca viminea</i> subsp. <i>viminea</i> (PHOTO 4)	+	E		2,13
<i>Melaleuca viminea</i> subsp. <i>appressa</i>	E			9
<i>Micromyrtus elobata</i> subsp. <i>elobata</i>	E			3,11
<i>Micromyrtus erichsenii</i>		E		11
<i>Micromyrtus imbricata</i>	+	E		9,11
<i>Oxymyrrhine gracilis</i>	+	E		9,11
<i>Phymatocarpus maxwellii</i>	+	E		11,13
<i>Regelia inops</i>	E			13
<i>Rinzia dimorphantha</i>	E			7
<i>Rinzia icosandra</i>	+	E		8,14
<i>Taxandria callistachys</i>	E			13
<i>Taxandria conspicua</i> subsp. <i>abrupta</i>	E			8
<i>Taxandria marginata</i>	E			7,9
<i>Taxandria spathulata</i>	+	E		16
<i>Tetrapora preissiana</i>	E			9
<i>Thryptomene australis</i> subsp. <i>brachyandra</i>	E			9
<i>Thryptomene saxicola</i>	E			9



Scientific name	Arid	Nuyts	Cons Code	Habitat
<i>Verticordia brownii</i>	E			11
<i>Verticordia eriocephala</i> (PHOTO 1)	+	E		7,11
<i>Verticordia inclusa</i>	E			7
<i>Verticordia minutiflora</i>	+	E		9
<i>Verticordia plumosa</i> var. <i>plumosa</i>	E			9
<i>Verticordia plumosa</i> var. <i>grandiflora</i>	E			9
<i>Verticordia sieberi</i> var. <i>sieberi</i>	+	E		11
<i>Verticordia verticordina</i>	E		3	9
<i>Verticordia vincella</i>	E			7,11
Nitrariaceae				
<i>Nitraria billardieri</i>	+	+		1,14
Olacaceae				
<i>Olax benthamiana</i> (PHOTO 2)	E			11,14
<i>Olax phyllanthi</i>	+	E		11
Onagraceae				
<i>Epilobium billardiereanum</i> subsp. <i>billardiereanum</i>	+			13
* <i>Oenothera stricta</i> subsp. <i>stricta</i>	+			15
Ophioglossaceae				
<i>Ophioglossum lusitanicum</i>	+			9
Orchidaceae				
<i>Caladenia arrecta</i>	E			7
<i>Caladenia attigens</i> subsp. <i>attigens</i>	E			9
<i>Caladenia attigens</i> subsp. <i>gracillima</i>	E			3

Scientific name	Arid	Nuyts	Cons Code	Habitat
<i>Caladenia bicallata</i> subsp. <i>cleistogama</i>	E			1
<i>Caladenia brevisura</i>	E			9
<i>Caladenia cairnsiana</i>	E			11
<i>Caladenia cruscula</i>	E			3
<i>Caladenia decora</i>	E			9,13
<i>Caladenia dimidia</i>	E			9
<i>Caladenia discoidea</i>	+	E		11
<i>Caladenia extans</i>	E			9,13
<i>Caladenia flava</i> subsp. <i>flava</i> (PHOTO 3)	E			7,11
<i>Caladenia graminifolia</i>	E			3
<i>Caladenia heberleana</i>	+	E		7,13
<i>Caladenia hirta</i> subsp. <i>rosea</i>	+	E		5,11
<i>Caladenia horistes</i>	E			9,13
<i>Caladenia latifolia</i> (PHOTO 4)	+	E		1,2,9
<i>Caladenia longicauda</i> subsp. <i>crassa</i>	E			11,13
<i>Caladenia longicauda</i> subsp. <i>rigidula</i>	E			9,11,13
<i>Caladenia marginata</i>	E			9
<i>Caladenia microchila</i>	+	E		11,14
<i>Caladenia pachychila</i>	E			9
<i>Caladenia sigmoidea</i>	+			9
<i>Caladenia vulgata</i>	E			7,11
<i>Calochilus pruiniosus</i>		E		11
<i>Corunastylis fuscoviridis</i>	+	+		11,14
<i>Cyanicula aperta</i>	+	E		3,11
<i>Cyanicula gemmata</i>	E			7
<i>Cyanicula sericea</i>	E			9
<i>Cyrtostylis robusta</i>	+	E		7,9
<i>Diuris brockmanii</i>	+	E		9,11,13
<i>Diuris concinna</i>	E			7
<i>Diuris dicrematum</i>	E			4
<i>Diuris laxiflora</i>	+	E		11,13
<i>Diuris littoralis</i>	+	E		11,14
<i>Diuris pulchella</i>	+			9



Scientific name	Arid	Nuyts	Cons Code	Habitat
<i>Diuris setacea</i> (PHOTO 1)	E			7
<i>Drakea glyptodon</i>	E			11,13
<i>Elythranthera brunonis</i> (PHOTO 2)	+	E		7,11
<i>Ericksonella saccharata</i>	+	E		7,11
<i>Eriochilus dilatatus</i> subsp. <i>dilatatus</i>	+	E		11
<i>Eriochilus dilatatus</i> subsp. <i>orientalis</i>		e		11
<i>Eriochilus dilatatus</i> subsp. <i>undulatus</i>	E			9
<i>Eriochilus pulchellus</i>	E			9
<i>Eriochilus scaber</i> subsp. <i>scaber</i>	E			9,11,13
<i>Leporella fimbriata</i>	E			7,11
<i>Leptoceras menziesii</i>	E			9
<i>Lyperanthus serratus</i>	E			6
<i>Microtis alba</i>	E			9,13
<i>Microtis atrata</i>	E			13
<i>Microtis cupularis</i>	E			9
<i>Microtis eremicola</i>	+	+		11,13
<i>Microtis media</i> subsp. <i>media</i>	E			9,13
<i>Microtis orbicularis</i>	E			13
<i>Paracaleana dsijuncta</i>	E			11,13
<i>Paracaleana parvula</i>	E			11
<i>Pheladenia deformis</i>	+	E		16
<i>Praecoxanthus aphyllus</i>	E			11
<i>Prasophyllum calcicola</i>	E			1,14
<i>Prasophyllum cucullata</i>	E			7,11
<i>Prasophyllum gracile</i>	E			9
<i>Prasophyllum odoratissimum</i>		E		11
<i>Prasophyllum parvifolium</i>	E			16
<i>Prasophyllum plumiforme</i>	E			11

Scientific name	Arid	Nuyts	Cons Code	Habitat
<i>Prasophyllum sargentii</i>	+	E		11,13
<i>Prasophyllum</i> sp.early (Brockman 1626)	E			9
<i>Pterostylis allantoidea</i>	E			9
<i>Pterostylis arbuscular</i>	+	+		11,14
<i>Pterostylis brevichila</i>	+	E		9,11
<i>Pterostylis dilatata</i>	+	E		6
<i>Pterostylis ectypha</i>	E			11
<i>Pterostylis faceta</i>	E			9,13
<i>Pterostylis lortensis</i>	E			7,9
<i>Pterostylis meridionalis</i> (was sp. Cape Arid)	E			13
<i>Pterostylis mutica</i>	+	+		4,5, 11
<i>Pterostylis parva</i>		E		14
<i>Pterostylis perculta</i>	E			12,13
<i>Pterostylis pyramidalis</i>	E			13
<i>Pterostylis recurva</i> (PHOTO 3)	E			6,11
<i>Pterostylis rogersii</i>	E			11,14
<i>Pterostylis roensis</i>	+			9
<i>Pterostylis sanguinea</i>	E			8,11
<i>Pterostylis sargentii</i>	+			9
<i>Pterostylis scabra</i>	+			9
<i>Pterostylis setulosa</i>	E			9
<i>Pterostylis timothyi</i>	E			11
<i>Pterostylis vittata</i>	+	E		11
<i>Pyrorchis nigricans</i> (PHOTO 4)	+	E		11
<i>Thelymitra antennifera</i>	+	E		9,13
<i>Thelymitra campanulata</i>	+	E		1,11
<i>Thelymitra flexuosa</i>	E			9,13
<i>Thelymitra granitora</i>	E			9
<i>Thelymitra macrophylla</i>	E			11
<i>Thelymitra occidentalis</i>	+	E		5,11,14
<i>Thelymitra petrophila</i>	+	+		9,14
<i>Thelymitra speciosa</i>	E			5,9
<i>Thelymitra spiralis</i>	E			9,13



Scientific name	Arid	Nuyts	Cons Code	Habitat
<i>Thelymitra villosa</i>	E			9,13
Orobanchaceae				
<i>Euphrasia collina</i> subsp. <i>tetragona</i>	E			1,14
<i>Orobanche cernua</i> var. <i>australiana</i>	+	+		9
* <i>Orobanche minor</i>	+	+		16
* <i>Parentucellia latifolia</i>	+	+		9,11
* <i>Parentucellia viscosa</i>	+			13
Oxalidaceae				
* <i>Oxalis bowiei</i>		+		15
<i>Oxalis exilis</i>	+	+		5,10
<i>Oxalis perennans</i> (PHOTO 1)	+	+		5,14
* <i>Oxalis pes-caprae</i>		+		15
Papaveraceae				
* <i>Argemone ochroleuca</i> subsp. <i>ochroleuca</i>		+		5,14
* <i>Fumaria capreolata</i>	+			15
* <i>Fumaria bastardii</i>	+			13
Philydraceae				
<i>Philydrella pygmaea</i> subsp. <i>pygmaea</i>	E			9
Phyllanthaceae				
<i>Lysiandra calycina</i>	+	E		11,14
<i>Lysiandra scaber</i>	+	E		11
<i>Poranthera huegelii</i>	+	E		11
<i>Poranthera microphylla</i>	+	+		11

Scientific name	Arid	Nuyts	Cons Code	Habitat
<i>Poranthera triandra</i>	+	+		11,14
Phrymaceae				
<i>Glossostigma drummondii</i>	+			9
Pittosporaceae				
<i>Bentlya diminuta</i>	E			5
<i>Billardiera bicolor</i> (PHOTO 2)	+	+		16
<i>Billardiera coriacea</i>	E	+		5
<i>Billardiera fusiformis</i> (PHOTO 3)	+	E		7,11
<i>Billardiera speciosa</i>	E			1,14
<i>Cheiranthera filifolia</i>	E			4,5
<i>Pittosporum angustifolium</i>		+		5,14
Plantaginaceae				
<i>Gratiola pedunculata</i>	+			9
<i>Gratiola pubescens</i>	+			13
* <i>Plantago coronopus</i> subsp. <i>commutata</i>	+			15
<i>Plantago cunninghamii</i>		+		14
<i>Plantago debilis</i>	+	+		9,11
<i>Plantago exilis</i>	E			9
<i>Plantago hispida</i> (PHOTO 4)	+	+		11
Poaceae				
* <i>Aira cupaniana</i>	+	+		9,15
* <i>Aira elegantissima</i>	+			13
<i>Amphibromus nervosus</i>	E			9,12
<i>Amphipogon avenaceus</i>	E			9
<i>Amphipogon strictus</i>	+	E		7
<i>Anthosachne scabra</i>	E			9
* <i>Anthoxanthum odoratum</i>	+			13,15
<i>Aristida contorta</i>		+		5
<i>Austrostipa acrociliata</i>	+	+		5,11
<i>Austrostipa dongicola</i>		+		14



Scientific name	Arid	Nuyts	Cons Code	Habitat
<i>Austrostipa drummondii</i>	+	+		11
<i>Austrostipa elegantissima</i> (PHOTO 1)	+	+		1,3, 11
<i>Austrostipa eremophila</i>		+		14
<i>Austrostipa exilis</i>		+		14
<i>Austrostipa flavescens</i>	+	E		1,11,14
<i>Austrostipa hemipogon</i> (PHOTO 2)	+	E		7,11
<i>Austrostipa juncifolia</i> (PHOTO 3)	E			3
<i>Austrostipa macalpinei</i>	E			11
<i>Austrostipa mundulla</i>		+		11,13
<i>Austrostipa nitida</i>		+		14
<i>Austrostipa nullarborensis</i>		+		14
<i>Austrostipa scabra</i>		+		11
<i>Austrostipa trichophylla</i>	+	+		1,5, 11
<i>Austrostipa variabilis</i>	+			4
<i>Austrostipa velutina</i>		+		14
* <i>Avellina michelii</i>	+			13,15
* <i>Avena barbata</i>	+	+		
* <i>Briza maxima</i>	+			13
* <i>Briza minor</i>	+			13
<i>Bromus arenarius</i>		+		1
* <i>Bromus diandrus</i>		+		1,15
* <i>Bromus hordeaceus</i>	+			5
* <i>Bromus madritense</i>	+			15
* <i>Bromus rubens</i>		+		5
* <i>Cenchrus echinatus</i>		+		15
<i>Chloris pumilio</i>	+	+		16
<i>Chloris truncata</i>		+		5
<i>Cymbopogon obtectus</i>	+			9

Scientific name	Arid	Nuyts	Cons Code	Habitat
* <i>Cynodon dactylon</i>	+	+		15
* <i>Digitaria sanguinalis</i>	+			13
* <i>Ehrharta brevifolia</i> var. <i>cuspidata</i>		+		11
* <i>Ehrharta calycina</i>		+		5,11
* <i>Ehrharta longiflora</i>	+	+		11
* <i>Eragrostis curvula</i>	+	+		15
* <i>Hordeum glaucum</i>	+	+		15
* <i>Hordeum leporinum</i>	+			15
* <i>Hordeum marinum</i>	+			2
<i>Lachnagrostis filiformis</i>	+	+		13,14
* <i>Lagurus ovatus</i>	+	+		1,11
* <i>Lolium perenne</i>	+			13
* <i>Lolium rigidum</i>	+	+		13,15
<i>Microlaena stipoides</i>	E			7,11
<i>Neurachne alopecuroidea</i> (PHOTO 4)	+	E		11,14
* <i>Panicum capillare</i>	+			9
* <i>Paraphlois incurva</i>	+	+		2,3
* <i>Pentameris airoides</i> subsp. <i>airoides</i>	+			12,15
* <i>Poa annua</i>	+	+		5,13
<i>Poa drummondiana</i>	+	+		14
<i>Poa poiformis</i> var. <i>poiformis</i>	+	E		1,11
<i>Poa porphyroclados</i>	E			11
* <i>Polypogon monspeliensis</i>	+			2
<i>Polypogon tenellus</i>	+			12
<i>Puccinellia stricta</i>	+	+		3
* <i>Rostraria cristata</i>		+		11,14
* <i>Rostraria pumila</i>		+		11,14
<i>Rytidosperma caespitosum</i>	+	+		16
<i>Rytidosperma setaceum</i>	+	+		11,14
* <i>Schismus barbatus</i>		+		5,14
<i>Spinifex hirsurus</i>	+	+		1
<i>Sporobolus virginicus</i>	+	+		1
* <i>Stenotaphrum secundatum</i>		+		15
<i>Themeda triandrus</i>	+			4



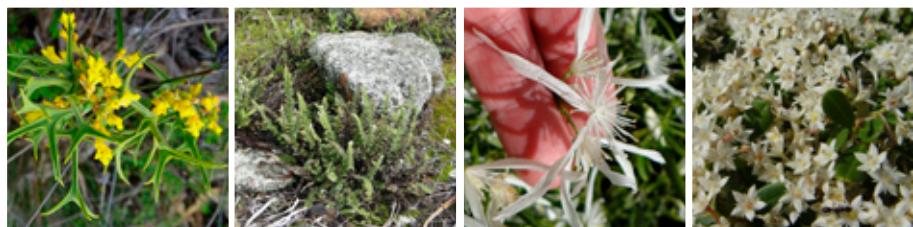
Scientific name	Arid	Nuyts	Cons Code	Habitat
<i>Triodia irritans</i>		+		14
<i>Triodia scariosa</i>		+		5,14
<i>Tripogonella loliiformis</i>	+			9
* <i>Vulpia myuros</i>	+			9,11
Polygalaceae				
<i>Comesperma acerosum</i>	E			11
<i>Comesperma calcicola</i>	E			3
<i>Comesperma calymega</i>	E			6,11
<i>Comesperma ciliatum</i>	E			9,11
<i>Comesperma confertum</i>	E			4,7
<i>Comesperma drummondii</i>	E			7
<i>Comesperma flavum</i> (PHOTO 1)	E			13
<i>Comesperma integrerrimum</i>	+	E		5,14
<i>Comesperma polygaloides</i>	E			12
<i>Comesperma spinosum</i>	+	E		16
<i>Comesperma virgatum</i>	E			7,11
<i>Comesperma volubile</i>	+	+		16
Polygonaceae				
<i>Duma florulenta</i>	+			12
<i>Muehlenbeckia adpressa</i>	+	+		11
<i>Persicaria prostrata</i>	E			9
* <i>Rumex acetosella</i>	+			13
* <i>Rumex crispus</i>	+			13
* <i>Rumex hypogaeus</i>	+			15

Scientific name	Arid	Nuyts	Cons Code	Habitat
Potamogetonaceae				
<i>Althenia australis</i>	+			9
<i>Althenia cylindrocarpa</i>	+			9
<i>Althenia preissii</i>	+			2
<i>Potamogeton drummondii</i>	E			9
Primulaceae				
* <i>Lysimachia arvensis</i>	+	+		9,11,15
<i>Samolus junceus</i>	+	+		2
<i>Samolus repens</i> var. <i>repens</i>	+	+		2
Proteaceae				
<i>Adenantheros cuneatus</i> (PHOTO 2)	+	E		6,11
<i>Adenantheros dobsonii</i>	+	E		7
<i>Adenantheros eyeri</i>		e	T	11
<i>Adenantheros forrestii</i> (PHOTO 3)		E		11
<i>Adenantheros oreophilus</i>	E			8
<i>Adenantheros sericea</i> subsp. <i>sphalma</i>	E			9
<i>Banksia alliacea</i>	E			7
<i>Banksia armata</i> var. <i>armata</i>	E			7
<i>Banksia armata</i> var. <i>ignicida</i>	E			7
<i>Banksia epica</i> (PHOTO pages 17, 27)	e	2		11
<i>Banksia falcata</i> (PHOTO pages 11, 14)	E			7
<i>Banksia media</i> (PHOTO 4)	+	E		6,7,11
<i>Banksia nivea</i> subsp. <i>nivea</i>	E			16
<i>Banksia nutans</i> var. <i>nutans</i>	+	E		1,11
<i>Banksia obovata</i>	+	E		11
<i>Banksia obtusa</i>	+	E		1,11
<i>Banksia occidentalis</i> (PHOTO page 14)	E			13
<i>Banksia petiolaris</i>	+	E		11
<i>Banksia pilostylis</i>	E			11
<i>Banksia prolata</i> var. <i>archeos</i>	e	2		8
<i>Banksia prolata</i> subsp. <i>prolata</i>	E	3		9
<i>Banksia pulchella</i>	+	E		1,11



Scientific name	Arid	Nuyts	Cons Code	Habitat
<i>Banksia repens</i>	+	E		7,11
<i>Banksia speciosa</i> (PHOTO page 15)	+	E		1,11
<i>Banksia tenuis</i> var. <i>tenuis</i>	E			7,11
<i>Conospermum distichum</i>	+	E		7,9, 11
<i>Conospermum leianthum</i> subsp. <i>leianthum</i>	E			11
<i>Conospermum leianthum</i> subsp. <i>orientale</i>	+	E		11
<i>Conospermum teretifolium</i>	+	E		7,11
<i>Franklandia fucifolia</i>	+	E		11
<i>Grevillea baxteri</i>	+	E		11
<i>Grevillea coccinea</i> subsp. <i>coccinea</i>	E			7
<i>Grevillea concinna</i> subsp. <i>lehmanii</i>	E			7,9, 11
<i>Grevillea huegelii</i>	+	+		3,5
<i>Grevillea nudiflora</i> (PHOTO 1)	E			7,8
<i>Grevillea oligantha</i>	+	E		7,11,14
<i>Grevillea pauciflora</i> subsp. <i>psilophylla</i>	+	E		11
<i>Grevillea pauciflora</i> subsp. <i>saxatilis</i> (PHOTO page 20)	e			8
<i>Grevillea pectinata</i>	E			5
<i>Grevillea plurijuga</i> subsp. <i>plurijuga</i>	+	E		3,11,14
<i>Grevillea sparsiflora</i>	+	E		11,14
<i>Grevillea tripartita</i> subsp. <i>macrostylis</i>		E		11
<i>Hakea adnata</i>	E			3,11
<i>Hakea bicornata</i>	E			4,11
<i>Hakea cinerea</i>	+	E		11
<i>Hakea clavata</i>	+	E		1,9
<i>Hakea commutata</i>	E			9
<i>Hakea corymbosa</i>	+	E		7,11
<i>Hakea cygnus</i> subsp. <i>cygnus</i>	E			11
<i>Hakea denticulata</i>	E			7

Scientific name	Arid	Nuyts	Cons Code	Habitat
<i>Hakea drupacea</i>	+	E		8,9, 11
<i>Hakea erecta</i> (PHOTO page 24)	E			8
<i>Hakea francisiana</i>	+			11
<i>Hakea florida</i>	E			13
<i>Hakea laurina</i> (PHOTO 2)	E			9
<i>Hakea lissocarpa</i>	E			7,11,14
<i>Hakea marginata</i>	E			9,13
<i>Hakea nitida</i>	+	+		11
<i>Hakea obliqua</i> subsp. <i>obliqua</i>	+	E		7,11
<i>Hakea pandanicarpa</i> subsp. <i>pandanicarpa</i> (PHOTO page 23)	+	E		16
<i>Hakea prostrata</i>	E			11
<i>Hakea pycnoneura</i>	E			8
<i>Hakea ruscifolia</i>	E			7
<i>Hakea scoparia</i> subsp. <i>trycherica</i>	e		2	8
<i>Hakea trifurcata</i>	E			7
<i>Hakea tuberculata</i>	E			9
<i>Hakea varia</i>	E			13
<i>Isopogon alicornis</i>	E		3	4,8
<i>Isopogon</i> sp. Fitzgerald River (Forman 813)	E			11
<i>Isopogon formosus</i> subsp. <i>formosus</i>	E			7,0
<i>Isopogon heterophyllus</i>	E			11
<i>Isopogon polycephalus</i>	+	E		7,11
<i>Isopogon trilobus</i> (PHOTO 3)	+	E		16
<i>Lambertia inermis</i>	E			7
<i>Persoonia cymbifolia</i>	E		3	11
<i>Persoonia spathulata</i>	E		2	11
<i>Persoonia teretifolia</i>	+	E		4,7, 11
<i>Petrophile fastigata</i>	+	E		7,11
<i>Petrophile phylloides</i>	+	E		7,11
<i>Petrophile squamata</i>	+	E		7,8, 11
<i>Petrophile teretifolia</i>	+	E		7,11
<i>Stirlingia anethifolia</i>	+	E		11
<i>Stirlingia tenuifolia</i> (PHOTO 4)	+	E		11,13
<i>Synaphea divaricata</i>	E			8,11



Scientific name	Arid	Nuyts	Cons Code	Habitat
<i>Synaphea favosa</i>	E			11
<i>Synaphea interioris</i>		E		11
<i>Synaphea media</i>	E			9
<i>Synaphea oligantha</i>	+	E		11,14
<i>Synaphea petiolaris</i> subsp. <i>petiolaris</i>	E			7,9, 11
<i>Synaphea spinulosa</i> subsp. <i>spinulosa</i> (PHOTO 1)	E			7
<i>Synaphea spinulosa</i> subsp. <i>major</i>	+	E		11
<i>Synaphea</i> sp. Southern Ranges (Kern 17378)	E			7
Pteridaceae				
<i>Cheilanthes distans</i> (PHOTO 2)	+	E		9
<i>Cheilanthes austrotenuifolia</i>	+	E		9
<i>Cheilanthes sieberi</i> subsp. <i>sieberi</i>	+			9
Ranunculaceae				
<i>Clematis linearifolia</i> (PHOTO 3)	+	E		11
<i>Clematis pubescens</i>	+	E		16
<i>Ranunculus pumilio</i> var. <i>pumilio</i>	+			9,13
<i>Ranunculus sessiliflorus</i> var. <i>sessiliflorus</i>	+			13
Restionaceae				
<i>Chordifex crispatus</i>	+	E		11
<i>Chordifex laxus</i>	E			13
<i>Chordifex sphacelatus</i>	+	E		11
<i>Desmocladus austrinus</i>	E			7,8
<i>Desmocladus lateriflorus</i>	+			4
<i>Desmocladus myriocladus</i>		E		11,14
<i>Desmocladus parthenicus</i>	+	+		11

Scientific name	Arid	Nuyts	Cons Code	Habitat
<i>Hypolaena exsulca</i>	E			11
<i>Hypolaena fastigiata</i>	E			13
<i>Lepidobolus chaetacephalus</i>	E			7
<i>Leptocarpus crebriculmis</i>	E			13
<i>Lepyrodia hermaphrodita</i>	E			13
<i>Lepyrodia macra</i>	E			13
<i>Loxocarya cinerea</i>	E			7,9
<i>Loxocarya striata</i>	E			7,13
Rhamnaceae				
<i>Cryptandra myriantha</i>	E			7,11
<i>Cryptandra nutans</i>	+	E		11
<i>Cryptandra pungens</i>	+	E		7,9, 11,14
<i>Cryptandra recurva</i>		E		11
<i>Pomaderris brevifolia</i>	E			5
<i>Pomaderris forrestiana</i>		+		11,14
<i>Pomaderris myrtilloides</i> (PHOTO 4)	+	+		11,14
<i>Pomaderris paniculosa</i>	E			9
<i>Pomaderris rotundifolia</i>	+	E		11,14
<i>Spyridium cordatum</i>	E			5
<i>Spyridium globulosum</i>	+	+		1,11
<i>Spyridium marjoranifolium</i>	E			1,11
<i>Spyridium microcephalum</i>	+	+		1,11,14
<i>Spyridium mucronatum</i> subsp. <i>multiflorum</i>	E		2	5
<i>Spyridium polycephalum</i>	+	E		11,14
<i>Spyridium tricolor</i>	+	+		5,11,14
<i>Stenantherum notiale</i> subsp. <i>notiale</i>	+	E		11
<i>Trymalium myrtillus</i> subsp. <i>myrtillus</i>	+			9
<i>Trymalium spatulatum</i>	E			9
Rubiaceae				
<i>Galium leptogonium</i>	+	+		5,14
* <i>Galium murale</i>	+			2
<i>Opercularia acolyantha</i>	E			5,11



Scientific name	Arid	Nuyts	Cons Code	Habitat
<i>Opercularia apiciflora</i>	E			9,13
<i>Opercularia hirsuta</i>	E		2	9
<i>Opercularia hispidula</i>	E			11
<i>Opercularia loganioides</i> (PHOTO page 27)	e			11,14
<i>Opercularia vaginata</i>	E			16
Ruppiaceae				
<i>Ruppia megacarpa</i>	+			2
Rutaceae				
<i>Boronia alata</i> (PHOTO 1)	E			1,11,14
<i>Boronia albiflora</i>	E			11
<i>Boronia clavata</i> subsp. <i>grandiflora</i>	E		T	9,13
<i>Boronia coriacea</i>	e		2	5,14
<i>Boronia crassifolia</i>	+	E		11,14
<i>Boronia denticulata</i>	E			13
<i>Boronia inornata</i> subsp. <i>inornata</i>	E			4,5
<i>Boronia inornata</i> subsp. <i>leptophylla</i>	+			4,5,7
<i>Cyanothamnus penicillatus</i>	E			7
<i>Boronia scabra</i> subsp. <i>attenuata</i>	E		3	9
<i>Boronia spathulata</i> (PHOTO 2)	E			11,13
<i>Boronia tetrandra</i>	+	E		1,9, 11,14
<i>Chorilaena euphemiae</i>	E			9,11
<i>Chorilaena rудis</i> subsp. <i>rudis</i>	E			14
<i>Chorilaena rудis</i> subsp. <i>amblolocarpus</i>	E			7
<i>Chorilaena rудis</i> subsp. <i>linearis</i>	e		4	8
<i>Cyanothamnus baeckeacea</i> subsp. <i>baeckeacea</i>	+	E		5,7, 14
<i>Cyanothamnus coerulescens</i> subsp. <i>coerulescens</i>	E			7,11

Scientific name	Arid	Nuyts	Cons Code	Habitat
<i>Cyanothamnus inconspicua</i>	+	E		16
<i>Diplolaena microcephala</i>	+			9
<i>Geijera linearifolia</i>	+	+		3,5, 10
<i>Nematolepis phebaloides</i> (PHOTO 3)	+	E		4,5, 14
<i>Phebalium multiflora</i> subsp. <i>multiflora</i>	+	+		5,11,14
<i>Phebalium multiflora</i> subsp. <i>baccharoides</i>	+	+		4,5, 14
<i>Phebalium pauciflora</i> subsp. <i>pauciflora</i>	+	+		5,14
<i>Philotheca fitzgeraldii</i>	+	+		11
<i>Philotheca nodiflora</i> subsp. <i>lasiocalyx</i>	+			11,13
Santalaceae				
<i>Choretrum chrysanthum</i>	+			
<i>Choretrum glomeratum</i>	E			
<i>Exocarpus aphyllus</i>	+	+		
<i>Exocarpus capnodiooides</i>	+	E		1,5,14
<i>Exocarpus sparteus</i>	+	+		
<i>Leptomeria axillaris</i>	E			
<i>Leptomeria lehmanii</i>	E			
<i>Leptomeria pachyclada</i>	+	+		5,14
<i>Leptomeria pauciflora</i>	E			
<i>Santalum acuminatum</i>	+	+		
<i>Santalum murryanum</i>	+			
<i>Santalum spicatum</i>			+	5
Sapindaceae				
<i>Dodonaea ambylophylla</i>	+	+		
<i>Dodonaea bursariifolia</i> (PHOTO 4)			+	11,14
<i>Dodonaea caespitosa</i>	+	E		4,5, 11
<i>Dodonaea ceratocarpa</i>	+	E		9,11,14
<i>Dodonaea hexandra</i>	+		1	8
<i>Dodonaea lobulata</i>	+	+		4,5, 10
<i>Dodonaea pinifolia</i>	E			8,9, 11
<i>Dodonaea stenozyga</i>	+	+		9,11
<i>Dodonaea viscosa</i> subsp. <i>angustissima</i>		+		5,11



Scientific name	Arid	Nuyts	Cons Code	Habitat
Scrophulariaceae				
* <i>Dischisma arenarium</i>	+	+		15
* <i>Dischisma capitatum</i>	+			15
<i>Eremophila alternifolia</i>	+	+		4,5, 10
<i>Eremophila decipiens</i> subsp. <i>decipiens</i> (PHOTO 1)	+	+		3,4,5
<i>Eremophila dempsteri</i>	+	+		3,5
<i>Eremophila deserti</i> (PHOTO 2)	+	+		3,4,5
<i>Eremophila denticulata</i> subsp. <i>trisulcata</i>	E		T	4,5, 11,14
<i>Eremophila dichroantha</i>	E			4,5, 11
<i>Eremophila glabra</i> subsp. <i>albicans</i>	+	+		5,11,14
<i>Eremophila glabra</i> subsp. <i>Junana</i> (G. Craig 2636)	E			4,5, 10
<i>Eremophila psilocalyx</i>	+			5,14
<i>Eremophila scoparia</i>	+	+		5,10,14
<i>Eremophila weldii</i>		+		5,14
<i>Limnosella australis</i>	+			9
<i>Myoporum insulare</i>	+	+		1,11
<i>Myoporum tetrandrum</i>	E			1,2, 11
<i>Myoporum platycarpum</i>	+	+		4,5, 14
<i>Myoporum velutinum</i>	+	E	T	9,13
Solanaceae				
<i>Anthocercis genistoides</i>	E			9
<i>Anthocercis littorea</i>	+	E		1,11,14
<i>Anthocercis viscosa</i> subsp. <i>caudata</i>	E			9
<i>Duboisia hopwoodii</i>		+		11
* <i>Lycium ferocissimum</i>		+		5,11
* <i>Nicotiana glauca</i>	+	+		13,15
<i>Nicotiana godspeedii</i>		+		14

Scientific name	Arid	Nuyts	Cons Code	Habitat
<i>Nicotiana occidentalis</i> subsp. <i>hesperis</i>		+		11
<i>Solanum hoplopetalum</i>		+		15
* <i>Solanum laciniatum</i>	+			15
* <i>Solanum nigrum</i>	+	+		14,15
<i>Solanum plicatile</i>	+	+		11
<i>Solanum symonii</i>	+	+		1,11,13
Stylidiaceae				
<i>Levenhookia dubia</i>	E			9
<i>Levenhookia pauciflora</i>	+	E		11
<i>Levenhookia pusilla</i>	E			9,11
<i>Levenhookia stipitata</i> (PHOTO 3)	E			9,11
<i>Styliodium adnatum</i>	+	E		9,11
<i>Styliodium androsaceum</i>	E			6,7, 11
<i>Styliodium breviscapum</i>	E			7,9, 11
<i>Styliodium calcaratum</i>	E			13
<i>Styliodium corymbosum</i> var. <i>corymbosum</i>	E			13
<i>Styliodium crassifolium</i>	E			13
<i>Styliodium despectum</i>	E			13
<i>Styliodium ecorne</i>	E			9
<i>Styliodium glandulosum</i>	E			9
<i>Styliodium macranthum</i>	+	E		6,11
<i>Styliodium perpusillum</i>	E			9,13
<i>Styliodium piliferum</i>	E			6,7, 11
<i>Styliodium pilosum</i>	+	E		1,6, 11
<i>Styliodium preissii</i>	+	E		1.4, 11,13
<i>Styliodium pygmaeum</i>	E			9
<i>Styliodium repens</i>	+	E		11
<i>Styliodium rupestre</i>	E			9
<i>Styliodium schoenoides</i> (PHOTO 4)	E			6
<i>Styliodium turleyae</i>	+	E		11,13
<i>Styliodium</i> sp. Mount Bayley (Wedge&Wilkins 1986)	+			9



Scientific name	Arid	Nuyts	Cons Code	Habitat
Thymelaeaceae				
<i>Pimelea angustifolia</i>	+	E		11,14
<i>Pimelea argentea</i> (PHOTO 1)	E			9
<i>Pimelea brachyphylla</i>	+	E		7,9, 11
<i>Pimelea brevifolia</i> subsp. <i>brevifolia</i>	+	E		7,9, 11
<i>Pimelea clavata</i>	E			9
<i>Pimelea cracens</i>	+	E		11,13
<i>Pimelea drummondii</i>	+	E		1,9, 11
<i>Pimelea erecta</i>	E			11
<i>Pimelea ferruginea</i>	+	E		1,11,14
<i>Pimelea hispida</i>		E		13
<i>Pimelea imbricata</i> var. <i>piligera</i>	E			9
<i>Pimelea micrantha</i>	+	E		5
<i>Pimelea pendens</i>	E			9
<i>Pimelea spiculigera</i> var. <i>spiculigera</i>	+	+		11
<i>Pimelea spiculigera</i> var. <i>thesioides</i>	+			9
Urticaceae				
<i>Parietaria cardiostegia</i>		+		1,14
<i>Parietaria debilis</i>	+	+		14
* <i>Urtica urens</i>		+		14,15
Violaceae				
<i>Pigea floribundus</i> subsp. <i>floribundus</i> (PHOTO2)	E			7,9
Xanthorrhoeaceae				
<i>Xanthorrhoea platyphylla</i> (PHOTO 3)	E			7,11

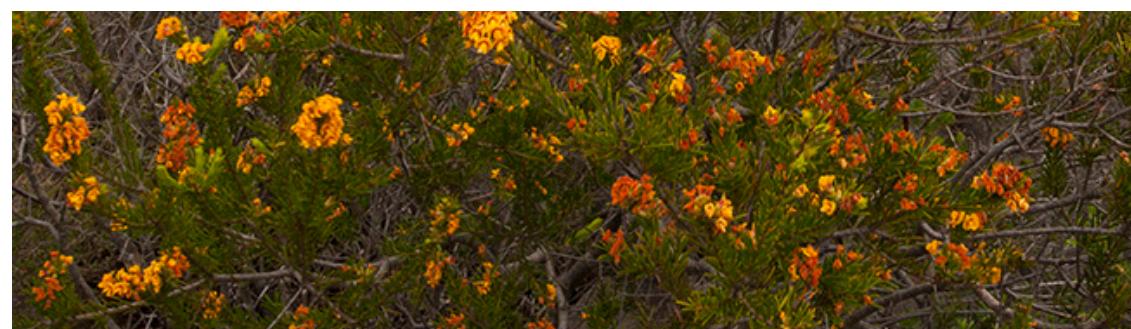
Scientific name	Arid	Nuyts	Cons Code	Habitat
Zamiaceae				
<i>Macrozamia dyeri</i> (PHOTO 4)	E			9
Zygophyllaceae				
* <i>Tribulus terrestris</i>	+			15
<i>Roepera apiculata</i>		+		5
<i>Roepera aurantiaca</i>		+		5,14
<i>Roepera angustifolia</i>		+		11
<i>Roepera billardieri</i>	+	+		1,11
<i>Roepera glauca</i>	+	+		5,14
<i>Roepera similis</i>	+	+		11

ACKNOWLEDGEMENTS

We would like to dedicate this paper to all members both professional and volunteer of the biological survey teams of the Department of Conservation and Land Management and the Western Australian Museum for knowledge sharing, companionship, assistance in the field, and with data collection/collation over many occasionally arduous field and lab seasons. Especially to Jeni Alford, Alan Burbidge, John Dell, Richard How, Norm McKenzie and Jim Rolfe. Funding for aspects of these studies were provided by a series of State and Federal grants.

All of the Cape Arid photos are from Marie and Jiri Lochman, thank you for loaning these for this publication. These were offered after a presentation by Greg to the Perth Branch of the Wildflower Society of WA. Greg used images borrowed from the web for the presentation.

Geoff Corrck from the Wildflower Society of WA (Inc) kindly proof read a copy of the document at the first proof stage, however any errors remain with the authors. The Society is thanked for accepting the study as a Society publication.



REFERENCES

- APLIN, T.E.H. and NEWBEY, K.R. 1979. The flora of Fitzgerald River National Park, Western Australia. *Kingia* 1: 155-193.
- BARRETT, S. 1996. Biological Survey of Mountains of southern Western Australia: Report. Department of Conservation and Land Management, Albany.
- BEARD, J.S. 1973. The Vegetation of the Esperance and Malcolm areas, Western Australia, map and explanatory memoir, 1: 250,000 series. Vegmap Publications, Applecross.
- BEARD, J.S. 1975. Nullarbor. Western Australian 1:1,000,000 vegetation series. University of Western Australia Press, Nedlands.
- BEARD, J.S. 1981. Swan. Western Australian 1:1,000,000 vegetation series. University of Western Australia Press, Nedlands.
- BRANDIS, A., HILL, T., KEIGHERY, G.J. and TIPPETT, J. 1985. Dieback in Cape Arid National Park and other areas of concern. Department of Conservation and Land Management, Perth, 59 pp.
- BRUNDRETT, M, KEIGHERY, G.J. and BARRETT, R. 2007. Biodiversity Hotspots in Western Australia- what, where and why. Abstracts, MEDICOS (International Conference of Mediterranean Ecosystems Conference) Perth, p. 50-51.
- DEPARTMENT OF AGRICULTURE, WATER and ENVIRONMENT 2003. Australia's 15 National Biodiversity Hotspots. (<https://www.environment.gov.au/home/topics/Biodiversity/Biodiversity%20Conservation/Biodiversity%20hotspots>, accessed 20-April-2020).
- DEPARTMENT OF CLIMATE CHANGE, ENERGY, the ENVIRONMENT and WATER 2023,a. Australia's Biogeographic Regions (IBRA). ([https://www.dccew.gov.au/home/environment/biodiversity/land/national%20reserve%20system/science,%20maps%20and%20data/Australia's%20Bioregions%20\(IBRA\)](https://www.dccew.gov.au/home/environment/biodiversity/land/national%20reserve%20system/science,%20maps%20and%20data/Australia's%20Bioregions%20(IBRA)), accessed 20-August-2023).
- DEPARTMENT OF CLIMATE CHANGE, ENERGY, the ENVIRONMENT and WATER 2023,b. Threatened Species and Ecological Communities. (<https://www.dccew.gov.au/home/environment/biodiversity/Threatened%20Species%20and%20Ecological%20Communities>, accessed 20-August-2023).
- DBCA-18 (DEPARTMENT OF BIODIVERSITY, CONSERVATION AND ATTRACTIONS data layer from data WA). Environment: South Coast Significant Wetlands: Weamerjunguk Wetland (Unique Feature ID BA22600405, Suite ID SB2)
- DEPARTMENT OF PARKS AND WILDLIFE, 2016. Esperance and Recherche Parks and Reserves: Management Plan. Department of Environment and Conservation, Perth.
- GIBSON, N., BURBIDGE, A.H., KEIGHERY, G.J. and LYONS, M.N. 2000. The temperate to arid transition of the vegetation of the Irwin - Carnarvon phytogeographic boundary. *Records Western Australian Museum Supplement* 61: 155-173.
- HALL, N.J. and MCKENZIE, N.L. (eds.)1993. The biological survey of the eastern Goldfields of Western Australia; Part 9 Norseman – Balladonia. *Records of the Western Australian Museum Supplement* 42.
- HAMMER, T., MACINTYRE, P., BRUNDRETT, M. and KEIGHERY, G.J. 2018. Combining Approaches to Identifying Biodiversity Hotspots in Western Australia. *Symposium of Royal Society of Western Australia: Landscapes, Seascapes and Biota*, p. 49.
- KEIGHERY, G.J. 1993. Flora List and synopsis of the flora of the Stirling Range National Park. Appendix: Mountains of Mystery: A Natural History of the Stirling Range, 52 pp. Department of Conservation and Land Management, Como.
- KEIGHERY, G.J. 1990. Vegetation and Flora of Shark Bay, Western Australia. In Research in Shark Bay, Eds. P.F. Berry, S.D. Bradshaw and B.R. Wilson. Pp 61-88. Western Australian Museum, Perth.
- KEIGHERY, G.J. 2010, a. Vascular Flora of Eucla National Park. *Western Australian Naturalist* 27: 150-159.
- KEIGHERY, G.J. 2010, b. Weeds of the Nullarbor. *Western Australian Naturalist* 27: 160-167.
- KEIGHERY, G.J., GIBSON, N., LYONS, M.N. and BURBIDGE, A.H. 2000. Flora and vegetation of the southern Carnarvon Basin. *Records Western Australian Museum Supplement* 61: 77-154.
- KEIGHERY, B.J., KEIGHERY, G.J., WEBB, A., LONGMAN, V.M., GRIFFIN, E.A. 2008. A floristic survey of the Whicher Scarp. Department of Environment and Conservation, Perth. 272 p.
- KEIGHERY, G.J., LYONS, M.N., GIBSON, N., and KEIGHERY, B.J. 2011. Vascular Flora of Leeuwin-Naturaliste National Park. *Conservation Science West. Australia*. 8: 31-60.
- KEIGHERY, G.J., ROBINSON, A.C. and DOWLING, B.H. 1987. Vegetation in A Biological Survey of the Nullarbor Region, South and Western Australia in 1984. Department of Environment and Planning. Adelaide. Eds McKenzie, N.M. and Robinson, A.C. pp. 39-101.
- MCKENZIE, N.M. and ROBINSON, A.C. (Editors), 1987. A Biological Survey of the Nullarbor Region, South and Western Australia in 1984. Department of Environment and Planning. Adelaide.
- MCKENZIE, N.M., BELBIN, L., MARGULES, C.R. and KEIGHERY, G.J. 1989. Selecting representative reserve systems in remote areas: a case study in the Nullarbor region, Australia. *Biological Conservation* 50: 230-261.
- NELSON, E.C., 1975. Disjunct plant distributions on the south-western Nullarbor Plain, Western Australia. *Journ. Proc. Royal Soc. West. Aust.* 58: 105-117.
- OPPERMANN, A. 1999. A Biological Survey of the South Australian Coastal Dune and Clifftop Vegetation, 1996-1998. Environmental Protection Agency, Dept. Environment, Heritage and Aboriginal Affairs, Adelaide.
- PARSONS, R.F., 1970. Mallee vegetation of the southern Nullarbor and Roe Plains, Australia. *Trans. Royal Society S. Aust.* 94: 227-242.
- WESTERN AUSTRALIAN HERBARIUM 1998-. FloraBase—The Western Australian Flora. Department of Environment and Conservation. <http://florabase.dec.wa.gov.au> (accessed 20 April 2020).

