VEGETATION SURVEY OF DRYANDRA FOREST

Prepared for: Department of Conservation and Land Management
Western Australia

By: Anne Coates
Consultant Botanist

January 1993

TABLE OF CONTENTS

1.0 INTRODUCTION 1

1.1 Geology and Soils 1

2.0 METHOD 4

3.0 VEGETATION SURVEY 6

3.1 Previous Surveys 6

3.2 Present Survey 7

4.0 FLORA OF DRYANDRA FOREST 35

4.1 Species of Interest 36

5.0 ACKNOWLEDGMENTS 39

6.0 REFERENCES 40

APPENDIX 1 - PLANT SPECIES LIST FOR DRYANDRA FOREST 41

APPENDIX 2 - MUIR VEGETATION DESCRIPTIONS 61

1.0 INTRODUCTION

Dryandra State Forest covers an area of approximately 23 500 hectares and is spread over 24 blocks some of which are separated by cleared farmland. The largest contiguous area (central blocks) is 12 192 hectares, the other 8 outlying areas range in size from 87 hectares to 3 913 hectares. Approximately 8 000 hectares of the forest area has been converted to Mallet *(Eucalyptus astringens)* plantations. The blocks are scattered within an area situated north and north west of Narrogin with the nearest block ~11 kilometres and the most distant block ~40 kilometres from the townsite.

The region experiences a typical Mediterranean climate with mild wet winters and warm to hot, dry summers with the blocks lying between the 500 mm and 600 mm isohyets for mean annual rainfall. The area has a low relief ranging from 240-440 metres above sea level.

A management plan for Dryandra (including Highbury State Forest No. 52) is currently being produced. The aim of this project is to prepare a vegetation map of the natural bushland areas and also to prepare a comprehensive species list for Dryandra Forest which will include past collections and incorporate new recordings made during the present survey.

1.1 Geology and Soils

The area of Dryandra Forest is part of the Western Shield. The landform units covering the area are described by McArthur *et al* (1977). The major units include the Norrine and Noombling units. The Norrine unit is a lateritic landform covering areas dominated by duricrust, gravels and sand. The laterite residuals are usually small and bounded by small escarpments. This unit usually occupies upper landscape positions but occasionally extends, as a spur, from the interfluve to the lower slopes. The Noombling unit is an erosional landform covering areas stripped of lateritic materials. The slopes are long and gentle and rock outcrops are common.

McArthur *et al* (1977) include the Biberkine unit in their description of the Dryandra region. This unit is a depositional landform which includes areas of alluvial valley fill and consists of the valley floors of major tributary streams. The unit mainly covers areas adjacent to the Forest blocks and areas on the periphery of the State Forest.

Figure 1 shows the relationship between the landforms and soils of the Dryandra regions and Table 1 summarises soil data from McArthur *et al* (1977).

Figure 1: Relief diagram and section of landscapes in the Dryandra area (from McArthur *et al* 1977)

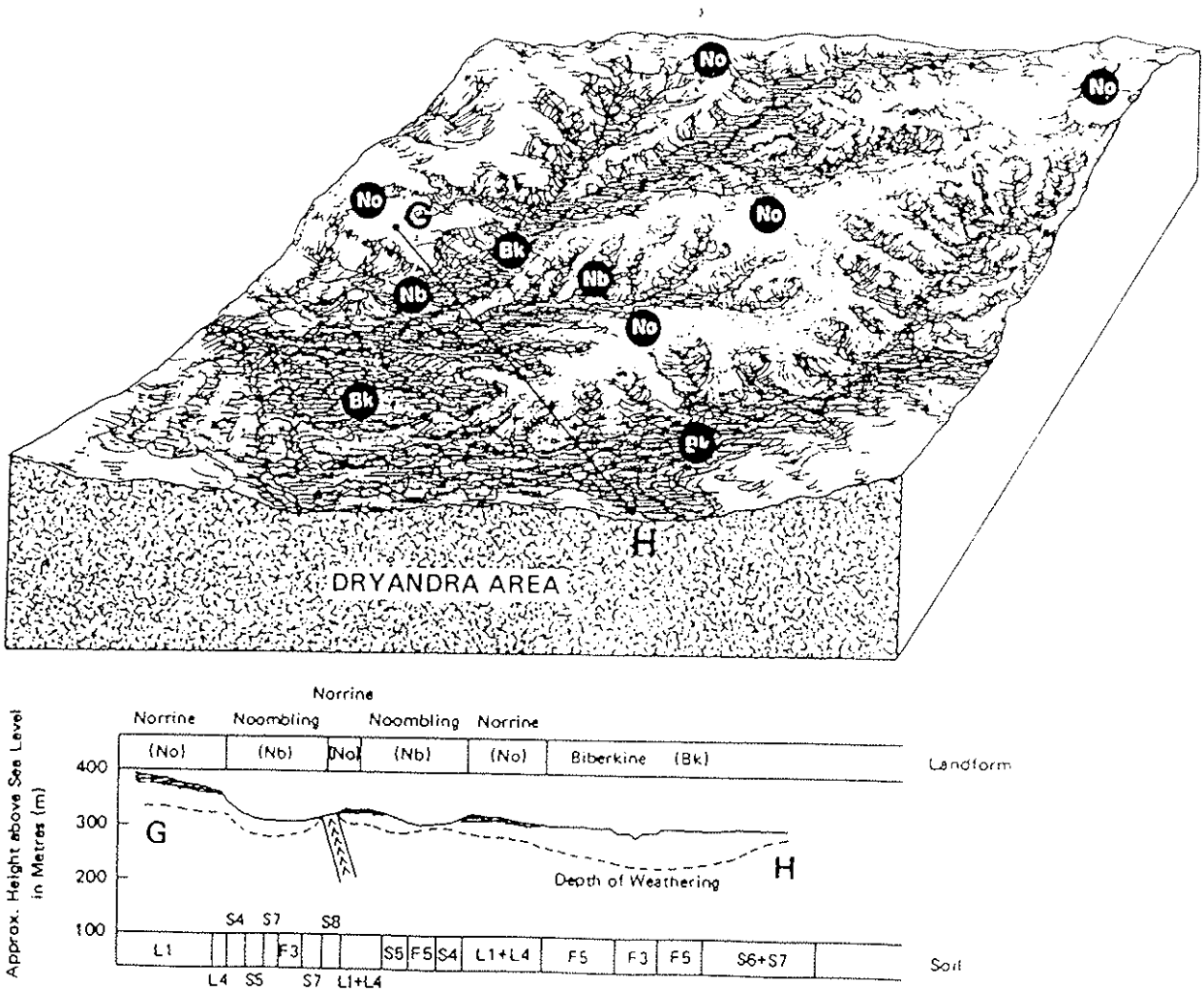


Table 1 Landform units and their associated soils for the Dryandra region as described in McArthur *et al* (1977)

Landform Unit	Description	Soils
Norrine	lateritic landform	1. yellow earthy sand, often with gravel, lower horizon may be cemented into sheets and boulders. 2. duricrust - fringe around top of residuals 3. dissected areas between residuals - sand or sandy loam, often gravelly, and overlying mottled or pallid zone clay.
Noombling	erosional landform	1. shallow and stony soils in association with rock outcrops. 2. on lower slopes - red earths or yellow duplex soils 3. in association with laterite residuals - yellow earths on slopes below escarpments, gravelly detritus on steep pediments extending from base of escarpment, gravelly duplex soils on small rises and duplex soils ± gravel on gently sloping pediments.
Biberkine	depositional landform	1. upper terrace has a yellow duplex soil 2. undifferentiated alluvium.

2.0 METHOD

The ground survey of the vegetation of Dryandra State Forest was carried out during June and July 1992 covering a period of 15 days.

General vegetation divisions were noted using colour aerial photography at a scale of 1:12 500. Areas of interest thus delineated were examined in the field and the vegetation and soils at selected sites described. Because of time limitations some areas were not covered in detail in the ground survey and mapping was carried out by extrapolation of known vegetation associations using the aerial photographs.

Vegetation association descriptions were based on the classification system devised by Muir (1977) which was specifically designed for describing wheatbelt vegetation (Table 2).

Voucher specimens of plant species were collected for new species not previously recorded for the forest area or where some uncertainty existed with regard to species identification needed for vegetation descriptions. Flora survey work was greatly restricted by time limitations and lack of flowering material.

The voucher specimens were identified using keys and by comparison with specimens at the WA Herbarium. Experts involved in revising past genera were consulted wherever possible to ensure accuracy with identification.

TABLE 2 - MUIR SYSTEM OF VEGETATION CLASSIFICATION

LIFE FORM/HEIGHT CLASS	CANOPY COVER			
	DENSE 70 - 100%	MID DENSE 30 - 70%	SPARSE 10 - 30%	VERY SPARSE 2 - 10%
T Trees > 30 metres M Trees 15 - 30 metres LA Trees 5 - 15 metres LB Trees < 5 metres	Dense Tall Forest Dense Forest Dense Low Forest A Dense Low Forest B	Tall Forest Forest Low Forest A Low Forest B	Tall Woodland Woodland Low Woodland A Low Woodland B	Open Tall Woodland Open Woodland Open Low Woodland A Open Low Woodland B
KT Mallee tree form KS Mallee shrub form	Dense Tree Mallee Dense Shrub Mallee	Tree Mallee Shrub Mallee	Open Tree Mallee Open Shrub Mallee	Very Open Tree Mallee Very Open Shrub Mallee
S Shrubs > 2 metres SA Shrubs 1.5 - 2.0 metres SB Shrubs 1.0 - 1.5 metres SC Shrubs 0.5 - 1.0 metres SD Shrubs 0.0 - 0.5 metres	Dense Thicket Dense Heath A Dense Heath B Dense Low Heath C Dense Low Heath D	Thicket Heath A Heath B Low Heath C Low Heath D	Scrub Low Scrub A Low Scrub B Dwarf Scrub C Dwarf Scrub D	Open Scrub Open Low Scrub A Open Low Scrub B Open Dwarf Scrub C Open Dwarf Scrub D
P Mat plants H Hummock Grass GT Bunch grass > 0.5 metres GL Bunch grass < 0.5 metres J Herbaceous spp.	Dense Mat Plants Dense Hummock Grass Dense Tall Grass Dense Low Grass Dense Herbs	Mat Plants Mid Dense Hummock Grass Tall Grass Low Grass Herbs	Open Mat Plants Hummock Grass Open Tall Grass Open Low Grass Open Herbs	Very Open Mat Plants Open Hummock Grass Very Open Tall Grass Very Open Low Grass Very Open Herbs
VT Sedges > 0.5 metres VL Sedges < 0.5 metres	Dense Tall Sedges Dense Low Sedges	Tall Sedges Low Sedges	Open Tall Sedges Open Low Sedges	Very Open Tall Sedges Very Open Low Sedges
X Ferns, Mosses, Liverwort	Dense Ferns Dense Mosses	Ferns Mosses	Open Ferns Open Mosses	Very Open Ferns Very Open Mosses

3.0 VEGETATION SURVEY

3.1 Previous Surveys

Dryandra Forest is situated in the Narrogin and Dryandra Vegetation Systems which are subdivisions of the Darling Botanical District, Dale sub district (Darling Range) and the Avon Botanical District. The Avon Botanical District in general covers the area known as the wheatbelt and lies east of the Darling Range, approximately east of the 500 mm isohyet. The eastern limit of *Eucalyptus calophylla* is taken as marking its boundary into the Darling District.

Beard (1979) describes the basic catena in the Dryandra system (Darling Botanical District) as comprising:

a) the communities of granite outcrops;
b) woodland of powderbark wandoo *(Eucalyptus accedens)* and brown mallet *(Eucalyptus astringens)* on laterite plateaux replacing the Jarrah of the Darling Range;
c) woodland of wandoo and powderbark on upper slopes with a gravel wash below the breakaways;
d) marri and wandoo on middle slopes;
e) York gum on the lowest slopes close to major drainage channels; and
f) river gum lining creeks and at time scattered on slopes.

The Narrogin System is a lower-rainfall equivalent of the Dryandra System and lies further to the east. Both *Eucalyptus marginata* and *Eucalyptus calophylla* have largely dropped out distinguishing the Narrogin system as a separate system belonging to the Avon District (Beard 1980). Outliers of *Eucalyptus calophylla* which regularly associates with *Eucalyptus wandoo* in the Dryandra System, occur occasionally in the wandoo.

Dryandra Forest is situated within the Pinjarra and Corrigin grid squares mapped by Beard (1979) and Beard (1980) at a scale of 1:250 000. From this work it can be noted that the map units covering the blocks include mallet, powderbark and wandoo woodland. The Forests Department compiled Mallet Classification Maps at a scale of 1:25 000 in May 1980 from the interpretation of aerial photography dated November 1978. The mallet areas were classified as mallet, sparse mallet, wandoo and other species, and very open.

3.2 Present Survey

A general catena or sequence is described for vegetation changes from the lateritic plateau remnants to valley soils. The landscape is dissected and changes occur rapidly over short distances forming the intricate mosaic typical of wheatbelt vegetation.

The vegetation was primarily divided into formations based on the definitions provided by Muir (1977) including tree communities (Low Woodlands, Woodlands, Low Forests), kwongan (Shrubland and Heath) and Lithic Complex (Granite). The communities were further divided into species associations within these groupings. Table 3 presents the vegetation associations mapped during the present survey and Muir descriptions for the vegetation found at selected sites marked on the maps are presented in Appendix 2.

Vegetation descriptions of each association mapped in the present survey are detailed in the following pages. Considerable variation in understorey structure and species composition were encountered during the survey partly due to past disturbances including control burns. The vegetation descriptions only provide a sample of the variation noted during fieldwork.

3.3 Vegetation Maps

Stereo pairs of colour aerial photography at a scale of 1:12 500 were used for mapping the vegetation of Dryandra Forest. The photographs provided a base for the vegetation maps and approximate boundaries of best fit for the Forest area. These forest boundaries have not been corrected from the Department of Land Administration lithographs and are only approximate due to variation between aerial photographs related to topographical changes.

The style of mapping and the symbols used on the maps are based on the Tutanning and Boyagin Rock Nature Reserve vegetation maps. Symbols in brackets represent occasional species or associations covering areas too small to map.

Boundaries between the *Eucalyptus accedens* and *Eucalyptus wandoo* woodlands are uncertain due to difficulties in delineating these areas on the aerial photography and in the field. On the lateritic plateaux the change from woodland to kwongan is gradual as the associations tend to intergrade. It was therefore not always possible to map these areas separately.

The changes in the understorey of woodland areas on the lateritic plateaux were not discernible from the aerial photographs and therefore boundaries could not be drawn. Symbols mark the type of understorey at the location indicated on the map only. In general tall kwongan (Kd) forms an understorey on the duricrust (usually at the fringe of the residuals) with *Dryandra squarrosa, Dryandra sessilis* and Low Heath (K) forming lower strata in deeper sands and gravel in central areas.

The genus *Dryandra* is at present under revision and recent information (M Pieroni *pers comm.*) indicates that *Dryandra carduacea* recorded for Dryandra Forest is now believed to be *Dryandra squarrosa*. Areas of *Dryandra carduacea* marked on the vegetation maps should therefore be recorded as areas of *Dryandra squarrosa*.

Due to time restrictions the Mallet Plantations were not included in the present survey. The vegetation maps cover areas of natural bushland occurring in Dryandra Forest except for Davies Block. Montague Block was mapped from aerial photograph interpretation and was not checked in the field.

The mallet plantations will now need to be surveyed as valuable conservation areas have been noted within the boundaries including a wetland and kwongan (Keighery and Marchant *pers comm.*). Rare vegetation associations may also occur within the plantations where mallet is sparse or absent.

Table 3 Vegetation Associations of Dryandra Forest

VEGETATION ASSOCIATION	MAP UNIT	LANDSCAPE POSITION	SOIL TYPE	COMMENTS
Eucalyptus accedens (powderbark wandoo) Woodland	Ea	steep to gentle upper slopes below the lateritic plateaux and small gravelly rises in mid slope position	sand or sandy loam and gravelly duplex soils	covers extensive areas
Eucalyptus astringens (brown mallet) Forest	M	naturally occurring on steep slopes adjoining breakaways or escarpments	clayey soils with laterite	commonly occurring but covering small areas in the natural bushland
Eucalyptus calophylla (marri) Woodland	Ec	lower and mid slopes	grey sandy soils	covering small areas only. *Eucalyptus marginata* occasional
Eucalyptus loxophleba (York gum) Woodland	El	Lower slopes often in association with granite or drainage lines	loam soils over clay	only four small areas found during the survey. This association is more common on adjacent valley soils, although extensive areas have now been cleared.

Lateritic plateau Woodlands *Eucalyptus accedens, Eucalyptus calophylla, Eucalyptus marginata* occasionally *Eucalyptus wandoo.* Either species dominant or co-dominant over short distances.	E a c m w	lateritic plateaux remnants usually bounded by escarpments, spurs to lower slopes	duricrust, sand and sandy loam ± gravel in depressions, shallow gravelly soils over ironstone	Kd understorey on duricrust - usually fringe around tops of residuals. Kdc, Kds and K understorey on deeper sands and gravelly soils generally on interior parts of plateau
Eucalyptus wandoo (white gum, wandoo) Woodland	Ew	mid to lower slopes, occasionally sandier upper slopes, low lying areas and drainage lines	sand to sandy loam ± gravel over clay	extensive throughout the forest area
Eucalyptus wandoo (whitegum)/*Allocasuarina huegeliana* (rock sheoak) Forest	EwC	mid and lower slopes	sandy soils	commonly occurring but covering only small areas
Allocasuarina huegeliana (rock sheoak) Low Forest	C	slopes below the lateritic plateaux	sandy soils in association with granite outcrops or pavement	relatively common but not extensive in the area surveyed
Acacia acuminata (jam) Low Forest	A	lower slopes, low lying areas often associated with granite or drainage lines	loam soils sometimes in association with granite	occasionally forms a sparse understorey in Ew (EwA) or a sparse to mid-dense understorey in El. The association is occasional and covers only small areas
Short kwongan (diverse mixed shrubland <2 metres)	K	occasionally on the lateritic plateau usually on slopes below. Sometimes associated with granite rock	shallow gravelly soils, deeper sands and gravels, gravelly duplex soils	commonly occurring but covering only small areas. Shrub Mallee (Ke) form an upper stratum in some areas
Dryandra and *Petrophile* Shrubland (Tall kwongan) >2 metres when mature	Kd	duricrust, usually forming a fringe around the tops of lateritic residuals	shallow gravelly soils over ironstone	covers only small areas of the Forest and merges with lateritic plateau woodlands
Lithic complex - granite		slopes below the lateritic plateau	rock surface and associated soils	small outcrops are relatively common. No large outcrops encountered in survey area

WOODLAND FORMATIONS

Ea *Eucalyptus accedens* (powderbark wandoo) Woodland

Diagnosis Low Woodland A (Woodland/Low Forest A) over *Gastrolobium* Low Scrub A/Heath B/Open Dwarf Scrub C in places over Open Dwarf Scrub D/Dwarf Scrub D

Sites Smith 9, Smith 13, Harris 2, Dryandra 3

Description

Stratum 1 Low Woodland A of *Eucalyptus accedens,* occasionally Low Forest A or Woodland (to 18 metres). Trees of *Eucalyptus wandoo* are usually present as scattered individuals.

Stratum 2 In some areas *Gastrolobium* shrubs to 2 metres form a patchy and discontinuous stratum. Low Scrub A, Open Low Scrub B, Heath B and Open Dwarf Scrub C were recorded at different sites. *Gastrolobium microcarpum* was the most commonly occurring species with *Gastrolobium trilobum* recorded on Harris, Palmer and Turner blocks. *Gastrolobium calycinus* and *Gastrolobium parviflorum* were occasional. Other stratum 2 species to 1.5 metres in height include *Hypocalymma angustifolium, Dryandra proteoides, Macrozamia riedlei* and *Xanthorrhoea drummondii.*

Stratum 3 Mixed plant species form a lower stratum of Open Dwarf Scrub D to Dwarf Scrub D in some areas. Stratum 3 species include *Dianella revoluta, Hibbertia* species, *Acacia lasiocarpa, Acacia pulchella, Astroloma* species, *Bossiaea eriocarpa, Lomandra mucronata, Chamaexeros serra* and *Trymalium ledifolium.* Plant species may be present only as scattered individuals in places.

Photograph 1: ***Eucalyptus accedens*** **(powderbark wandoo) Woodland on Smith Block.**

Photograph 2: ***Eucalyptus accedens*** **Woodland with an understorey of** ***Gastrolobium trilobum*** **and** ***Gastrolobium parviflorum*** **on Palmer Block.**

M ***Eucalyptus astringens*** **(brown mallet) Low Forest**

Diagnosis Low Forest A (Low Woodland A).
Regeneration - Low Forest B/Dense Low Forest B.

Sites Smith 5, Penny 4, Penny 6, Candy 2.

Description

Stratum 1 Low Forest A occasionally to Low Woodland A (8 to 12 metres) of *Eucalyptus astringens.* Scattered trees of *Eucalyptus accedens* may be present. Low Forest B/Dense Low Forest B in areas regenerating after fire.

Lower Stratum No understorey is usually present with shrubs occurring as scattered individuals. Species recorded include *Gastrolobium parviflorum, Gastrolobium trilobum, Bossiaea eriocarpa* and *Daviesia* species.

Photograph 3: ***Eucalyptus astringens*** **regenerating on Penny block.**

Photograph 4: ***Eucalyptus astringens*** **(brown mallet) Low Forest on Penny block.**

Ec ***Eucalyptus calophylla*** **(marri) Woodland**

Diagnosis Low Woodland A/Woodland over Scrub (Thicket) over Dwarf Scrub D.

Sites Peter 13, Smith 10, Dryandra 4, Harris 1, Candy 5

Description

Stratum 1 Low Woodland A, occasionally to Woodland or Open Low Woodland A, of *Eucalyptus calophylla* 5 to 16 metres in height. Scattered trees of *Eucalyptus accedens, Eucalyptus wandoo* and occasionally *Eucalyptus marginata* may be present.

Stratum 2 Scrub, occasionally Thicket, forms a patchy stratum at most localities. Characteristic species include *Dryandra sessilis, Hakea trifurcata, Hakea prostrata, Nuytsia floribunda* and *Jacksonia sternbergiana.*

Stratum 3 Open Low Scrub A to Low Scrub B or Heath over short distances. Stratum 3 occurs only occasionally with shrubs to 2 metres commonly present as scattered individuals only. Stratum 3 species include *Leptospermum erubescens, Conospermum stoechadis, Adenanthos cygnorum, Hakea incrassata, Gastrolobium calycinus, Gastrolobium parviflorum, Gastrolobium microcarpum* and *Hypocalymma angustifolium.*

Stratum 4 Dwarf Scrub D occasionally to Low Heath D. Stratum 4 species include *Astroloma* species, *Hibbertia* species, *Bossiaea eriocarpa, Caustis dioica, Petrophile macrostachya, Leucopogon* species, *Loxocarya* species, *Borya sphaerocephala, Calytrix* species and *Lomandra* species.

Photograph 5: ***Eucalyptus calophylla*** **Woodland on Candy Block with an understorey of** ***Dryandra sessilis*****.**

El ***Eucalyptus loxophleba*** **(York gum) Woodland**

Diagnosis Low Forest A/Low Woodland A over *Acacia acuminata* Open Low Woodland B to Low Forest B in places over Open Low Sedges/Open Dwarf Scrub D in places.

Sites Peter 12, Skelton 2, Smith 14, Penny 7

Description

Stratum 1 Low Forest A to Low Woodland A of *Eucalyptus loxophleba* to 12 metres. Scattered trees of *Eucalyptus wandoo* and occasionally *Allocasuarina huegeliana* may be present.

Stratum 2 Open Low Woodland B to Low Forest B of *Acacia acuminata* forms a patchy stratum in most areas.

Stratum 3 Scattered shrubs and sedges form Open Dwarf Scrub D/Open Low Sedges in some areas. Annuals present in the spring. Stratum 3 species include *Astroloma epacridis, Loxocarya aspera, Hibbertia* species, *Stypandra glauca, Acacia lasiocarpa* and *Lepidosperma* species.

Photograph 6: ***Eucalyptus loxophleba*** **Woodland with** ***Acacia acuminata*** **(jam).**

E Lateritic Plateau Woodlands

Ea	*Eucalyptus accedens,*	**Ec**	*Eucalyptus calophylla*
Em	*Eucalyptus marginata,*	**Ew**	*Eucalyptus wandoo*

1. Ekd Tall Kwongan understorey. *Dryandra nobilis,* ± *Dryandra stuposa,* ± *Dryandra squarrosa* prominent

Diagnosis Low Woodland A/Open Low Woodland A over Scrub/Thicket (Dense Heath A) over variable lower strata.

Sites Skelton 10, Dryandra 1, Dryandra 2, Penny 5

Description

Stratum 1 Low Woodland A to Open Low Woodland A, occasionally Woodland to 18 metres, of *Eucalyptus accedens, Eucalyptus marginata, Eucalyptus calophylla* or occasionally *Eucalyptus wandoo.* Each species may be dominant over short distances, co-dominant, present as scattered individuals or absent in some areas.

Stratum 2 Usually Scrub to Thicket with *Dryandra nobilis* prominent and *Dryandra squarrosa* and/or *Dryandra stuposa* prominent in some areas. Shrubs are over 2 metres when mature. Heath A or Heath B occasionally to Dense Heath A (site Penny 5) in areas more recently burnt. Other characteristic species include *Adenanthos cygnorum, Isopogon dubius, Petrophile divaricata* and *Petrophile heterophylla.*

Stratum 3 Dwarf Scrub C/Open Dwarf Scrub C to Low Heath C where Stratum 2 is more open. Characteristic species include *Allocasuarina humilis, Banksia sphaerocarpa, Beaufortia incana, Dryandra armata, Gastrolobium microcarpum, Gastrolobium bilobum, Grevillea hookeriana, Hakea ruscifolia, Styphelia tenuiflora* and *Jacksonia floribunda.*

Stratum 4 Dwarf Scrub D to Open Dwarf Scrub D in some areas. Stratum 4 species recorded include *Bossiaea eriocarpa, Grevillea tenuiflora, Darwinia dryandrensis* (ms), *Astroloma epacridis, Lepidosperma* species and *Chamaexeros serra.*

Photograph 7: *Eucalyptus accedens* and *Eucalyptus calophylla* over Tall Heath with *Dryandra nobilis* prominent on Penny Block (EacKd)

Photograph 8: *Eucalyptus marginata* with occasional *Eucalyptus accedens* over an understorey of Tall Heath on Bald Rock Block (Em(a)Kd)

2. EKdc *Dryandra (carduacea) squarrosa* understorey

Diagnosis Open Low Woodland A/Low Woodland A over Scrub/Thicket to Low Scrub B/Heath B over variable lower strata.

Sites Peters 3, Skelton 8, Skelton 9, A25 1

Description

Stratum 1 Open Low Woodland A/Low Woodland A, occasionally to Woodland, of *Eucalyptus accedens, Eucalyptus calophylla, Eucalyptus marginata* or occasionally *Eucalyptus wandoo.* Each species may be dominant, co-dominant, present as scattered individuals or absent in some areas.

Stratum 2 Scrub/Thicket to Low Scrub B/Heath B with *Dryandra (carduacea) squarrosa* prominent. *Dryandra nobilis* may be occasional. Other Stratum 2 species include *Petrophile heterophylla, Hakea ruscifolia, Hakea trifurcata, Leptospermum erubescens, Dryandra sessilis, Acacia celastrifolia, Melaleuca ?scabra, Allocasuarina humilis* and *Isopogon dubius.*

Stratum 3 Open Dwarf Scrub C/Dwarf Scrub C to Dwarf Scrub D of mixed plant species in most areas. Stratum 3 species include *Chamaexeros serra, Bossiaea eriocarpa, Grevillea tenuiflora, Synaphea* species, *Dryandra armata, Lomandra mucronata, Petrophile serruriae, Hibbertia exasperata, Acacia pulchella, Astroloma* species, *Leucopogon* species, *Hovea chorizemifolia* and *Grevillea leptobotrya.*

Photograph 9: *Eucalyptus marginata* with occasional *Eucalyptus accedens* over an understorey of *Dryandra squarrosa*. (Em(a)Kdc) on A25 Block.

3. EKds *Dryandra sessilis* understorey

Diagnosis Low Woodland A/Open Low Woodland A over Scrub over variable lower strata.

Sites Skelton 6, Miles 4

Description

Stratum 1 Low Woodland A/Open Low Woodland A of *Eucalyptus calophylla* with *Eucalyptus accedens* or occasionally *Eucalyptus wandoo* or *Eucalyptus marginata.*

Stratum 2 Scrub of *Dryandra sessilis* to 4 metres in places forming a patchy and discontinuous stratum.

Stratum 3 Low Scrub B to Low Heath C in some areas. Stratum 3 species include *Gastrolobium microcarpum, Xanthorrhoea drummondii, Banksia sphaerocarpa, Gastrolobium bilobum, Styphelia tenuiflora, Hypocalymma angustifolium, Petrophile serruriae* and *Hakea lissocarpha.*

Stratum 4 Dwarf Scrub D in most areas with Open Low Sedges occasional. Stratum 4 species include *Hibbertia* species, *Astroloma epacridis, Dryandra bipinnatifida, Bossiaea eriocarpa, Chamaexeros serra, Grevillea tenuiflora, Lomandra mucronata, Dryandra armata, Synaphea* species and *Hovea chorizemifolia.*

Photograph 10: *Eucalyptus accedens* and *Eucalyptus calophylla* with an understorey of *Dryandra sessilis* on Dryandra block.

4. EK Low Heath understorey

Diagnosis Low Woodland A (Woodland)/Open Low Woodland A over Heath C/Dwarf Scrub C over Low Heath D/Dwarf Scrub D.

Sites Peters 2, Peters 7, Skelton 1, Skelton 11, Smith 6

Description

Stratum 1 Low Woodland A/Open Low Woodland A, occasionally to Woodland (10 to 18 metres), of *Eucalyptus accedens, Eucalyptus calophylla, Eucalyptus marginata* or occasionally *Eucalyptus wandoo.* Each species may be dominant, co-dominant, present as scattered individuals or absent in some areas.

Stratum 2 Scattered clumps of shrub mallee may form Very Open Shrub Mallee in some areas. *Eucalyptus drummondii* is characteristic with *Eucalyptus falcata* and *Eucalyptus plauricaulis* also recorded. In some areas scattered shrubs form Scrub/Open Scrub to Open Low Scrub A. Shrub species include *Petrophile heterophylla, Hakea trifurcata, Dryandra sessilis, Hakea prostrata, Xanthorrhoea drummondii, Santalum murrayanum, Hakea ruscifolia, Petrophile ericifolia, Isopogon dubius, Melaleuca ?scabra* and *Dryandra stuposa.*

Stratum 3 In most areas Heath C/Dwarf Scrub C, occasionally Heath B, forms a lower stratum. Characteristic species include *Leptospermum erubescens, Adenanthos cygnorum, Styphelia tenuiflora, Petrophile serruriae, Dryandra armata, Daviesia* species, *Hakea incrassata, Petrophile circinata, Grevillea hookeriana, Petrophile ericifolia, Allocasuarina humilis, Banksia sphaerocarpa* and *Conospermum stoechadis.*

Stratum 4

Open Dwarf Scrub D to Low Heath D in some areas. Stratum 4 species include *Bossiaea eriocarpa, Leucopogon* species, *Lomandra mucronata, Astroloma* species, *Dryandra nivea, Persoonia striata, Acacia stenoptera, Darwinia dryandrensis* (ms), *Acacia pulchella, Synaphea* species, *Petrophile brevifolia, Grevillea tenuifolia, Hibbertia* species, *Nemcia carinata, Lysinema ciliatum, Grevillea leptobotrya, Calothamnus sanguineus* and *Chamaexeros serra.*

Photograph 11: *Eucalyptus marginata* (jarrah) with an understorey of Tall Kwongan (back) and Short Kwongan (front) on Bald Rock Block.

Ew ***Eucalyptus wandoo*** **(white gum, wandoo) Woodland**

Diagnosis Low Woodland A (Open Low Woodland A, Woodland, Low Forest A) over *Acacia acuminata* Open Low Woodland B/Low Woodland B occasionally, over *Gastrolobium* Open Low Scrub A/Heath A to Open Dwarf Scrub C in places over Very Open Dwarf Scrub D to Low Heath D (Low Sedges/Open Low Sedges).

Sites Peters 5, Peters 9, Peters 10, Miles 1, Miles 2, Smith 1, Smith 11, Candy 1, Candy 3, Harris 5.

Description

Stratum 1 Low Woodland A, occasionally Woodland, Open Low Woodland A or Low Forest A, of *Eucalyptus wandoo. Eucalyptus accedens, Eucalyptus calophylla, Allocasuarina huegeliana* or *Acacia acuminata* may be present as scattered individuals in some areas.

Stratum 2 Occasionally scattered trees of *Acacia acuminata* form Open Low Woodland B to Low Woodland B (EwA).

Stratum 3 Open Low Scrub A/Heath A to Open Dwarf Scrub C/Heath C of *Gastrolobium* species forms a patchy discontinuous stratum in many areas. *Gastrolobium microcarpum* is the most commonly occurring species with *Gastrolobium parviflorum* and *Gastrolobium calycinus* also recorded. Other shrub species 1.0 to 2.0 metres in height, occurring as scattered individuals in some areas include *Hypocalymma angustifolium, Hakea prostrata, Leptospermum erubescens, Xanthorrhoea drummondii,* and *Santalum murrayanum.*

Stratum 4 Low Heath D/Low Heath C covers small areas on gravel soils at a few localities. In most areas a patchy stratum of Open Low Sedges/Dwarf Scrub D/*Borya* Herbs (Open Herbs) is present. Annuals are present in the spring. Stratum 4 species include *Dryandra armata, Gastrolobium bilobum, Dampiera* species, *Baeckea* species, *Dryandra nivea, Hakea incrassata, Isopogon teretifolius, Astroloma* species, *Hibbertia* species, *Loxocarya aspera, Calothamnus quadrifidus, Nemcia hookeri, Dryandra fraseri, Bossiaea eriocarpa, Lepidosperma* species, *Acacia pulchella, Acacia lasiocarpa* and *Dianella revoluta.*

Photograph 12: ***Eucalyptus wandoo*** **with an understorey of** ***Gastrolobium microcarpum*** **on Smith Block.**

Photograph 13: ***Eucalyptus wandoo*** **Woodland with scattered trees of** ***Acacia acuminata*** **(jam) on Smith Block.**

Photograph 14: *Eucalyptus wandoo* Woodland with an understorey of Low Heath on gravel soils on A25 Block.

EwC *Eucalyptus wandoo* (white gum)/*Allocasuarina huegeliana* (rock sheoak) Low Forest

Diagnosis Low Forest A or Low Woodland A over Low Forest B over variable lower strata.

Sites Skelton 4, Candy 4

Description

Stratum 1 Low Forest A of *Eucalyptus wandoo* (8 to 15 metres) and *Allocasuarina huegeliana* (5 to 10 metres) forming Low Woodland A *(Eucalyptus wandoo)* over Low Forest B of *Allocasuarina huegeliana* (to 5 metres) occasionally. Scattered trees of *Acacia acuminata* and *Eucalyptus calophylla* may be present.

Stratum 2

Shrubs are present as scattered individuals in most areas forming *Gastrolobium* Low Scrub B (patchy) occasionally. *Borya* Herbs/Open Herbs may be present in some areas. Lower stratum species include *Gastrolobium microcarpum, Gastrolobium parviflorum, Gastrolobium calycinus, Dianella revoluta, Stypandra glauca, Hypocalymma angustifolium, Hibbertia* species, *Loxocarya aspera, Astroloma* species. Annuals are present in the spring.

Photograph 15: *Eucalyptus wandoo* (white gum)/*Allocasuarina huegeliana* (rock sheoak) Forest on Candy Block.

C *Allocasuarina huegeliana* (rock sheoak) Low Forest

Diagnosis Low Forest A (Dense Low Forest A) over variable understorey.

Sites Peters 4, Skelton 3, Smith 2, Bald Rock 1, Turner 1.

Description

Stratum 1 Low Forest A, Dense Low Forest A in some areas adjacent to granite, of *Allocasuarina huegeliana* (4 to 10 metres). Low Forest B/Dense Low Forest B in areas regenerating after fire. Scattered trees of *Eucalyptus wandoo, Acacia acuminata* and occasionally *Eucalyptus loxophleba* may be present. *Eucalyptus rudis* was recorded on Skelton block.

Lower Stratum A lower stratum is usually absent with shrubs present as scattered individuals. Tall Sedges of *Lepidosperma* species often occur adjacent to granite rock. Open Low Sedges and Low Scrub B/Open Low Scrub B were also recorded. Lower stratum species include *Borya* species, *Loxocarya aspera, Melaleuca radula, Hypocalymma angustifolium, Gastrolobium microcarpum, Gastrolobium parviflorum, Hakea petiolaris, Hibbertia* species, *Cheilanthes austrotenuifolia* and *Stypandra glauca.* Annuals are present in the spring.

Photograph 16: *Allocasuarina huegeliana* (rock sheoak) adjacent to granite on Bald Rock Block.

A ***Acacia acuminata*** **(jam) Low Forest**

Diagnosis Low Forest A/Low Forest B.

Sites Miles 3, Smith 4, Smith 12, Smith 15, Bullock 1

Description

Stratum 1 Low Forest A to Low Forest B of *Acacia acuminata* (3 to 7 metres). Scattered trees of *Allocasuarina huegeliana* and *Eucalyptus wandoo* may be present.

Lower Stratum No discernible understorey, shrubs are usually present as scattered individuals only. Very Open Low Sedges to Low Sedges occur in some areas. Plant species recorded include *Gastrolobium microcarpum, Patersonia* species, *Santalum spicatum, Dianella revoluta, Cheilanthes austrotenuifolia* and *Hibbertia* species. Annuals are present in the spring.

Photograph 17: ***Acacia acuminata*** **(jam) Low Forest on Smith Block.**

KWONGAN FORMATIONS

K Short Kwongan

Diagnosis Very Open Shrub Mallee in some areas over Open Scrub to Open Low Scrub B in some areas over Heath B/Low Heath C (Low Heath D) over Dwarf Scrub D in places.

Sites Peters 8, Skelton 5, Smith 3, Smith 8, Lol Gray 1, Penny 1, Penny 2, Harris 4, Bald Rock 2, Candy 6

Description

Stratum 1 Scattered clumps of Shrub Mallee form Very Open Shrub Mallee (Ke) in some areas. Mallee species recorded include *Eucalyptus drummondii, Eucalyptus falcata, Eucalyptus incrassata, Eucalyptus latens* and *Eucalyptus pluricaulis.* Scattered trees of *Eucalyptus wandoo, Eucalyptus calophylla* and *Allocasuarina huegeliana* may also be present.

Stratum 2 Open Scrub to Open Low Scrub B in some areas. Stratum 2 species include *Petrophile ericifolia, Petrophile heterophylla, Grevillea hookeriana, Xanthorrhoea drummondii, Petrophile divaricata, Melaleuca radula, Hakea undulata, Melaleuca ?scabra* and *Santalum murrayanum.*

Stratum 3 Low Heath C to Heath B, occasionally Low Heath D, of mixed plant species including *Calothamnus quadrifidus* (prominent near granite), *Hakea gilbertii, Gastrolobium spinosum, Allocasuarina humilis, Hakea trifurcata, Isopogon teretifolium, Leucopogon* species, *Petrophile brevifolia, Daviesia* species, *Petrophile serruriae, Allocasuarina thyoides, Melaleuca pungens, Hakea lehmanniana, Acacia flexuosa* (near granite), *Allocasuarina microstachya, Gastrolobium bilobum, Gastrolobium microcarpum, Dryandra armata, Hakea incrassata, Isopogon dubius, Leptospermum erubescens, Petrophile squamata, Beaufortia bracteosa, Dryandra drummondii, Banksia sphaerocarpa, Calothamnus planifolius, Beaufortia incana* and *Lambertia ilicifolia.*

Stratum 4

Open Dwarf Scrub D/Dwarf Scrub D to Dwarf Scrub C forms a lower stratum in some areas. Stratum 4 species include *Caustis dioica, Synaphea* species, *Andersonia* species, *Nemcia carinata, Petrophile circinata, Leucopogon* species, *Astroloma* species, *Dryandra fraseri, Baeckea* species, *Borya* species, *Dryandra nivea* and *Chamaexeros serra.*

Photograph 18: Short Kwongan on Penny Block.

Kd ***Dryandra* and *Petrophile* Shrubland (Tall Kwongan)**

Diagnosis Very Open Shrub Mallee in some areas over Thicket/Heath A over variable lower strata.

Sites Peters 6, Peters 11, Skelton 7, Smith 7, Penny 3, Harris 3, Palmer 1

Description

Stratum 1 Scattered clumps of Shrub Mallee may be present forming Very Open Shrub Mallee in some areas. Mallee species include *Eucalyptus drummondii, Eucalyptus falcata* and *Eucalyptus plauricaulis.* Scattered trees of *Eucalyptus accedens* and *Eucalyptus calophylla* may also occur.

Stratum 2 Thicket to Heath A (Dense Heath A), occasionally Scrub, to 3 metres in places. *Dryandra nobilis* is usually prominent but *Dryandra stuposa* may be prominent with *Dryandra (carduacea) squarrosa* also commonly occurring in some areas.

Other Stratum 2 species include *Dryandra sessilis, Dryandra cynaroides, Dryandra* aff. *seneciifolia, Petrophile heterophylla, Styphelia tenuiflora, Adenanthos cygnorum, Melaleuca ?scabra, Hakea ruscifolia, Petrophile divaricata, Isopogon dubius, Lambertia ilicifolia, Petrophile ericifolia, Beaufortia incana* and *Allocasuarina humilis.*

Stratum 3 Open Dwarf Scrub C/Dwarf Scrub C to Open Dwarf Scrub D/Dwarf Scrub D in most areas to Low Heath C where the upper strata are more open. Lower stratum species include *Hakea gilbertii, Beaufortia bracteosa, Hovea trisperma, Daviesia* species, *Melaleuca pungens, Hakea incrassata, Hibbertia* species, *Petrophile serruriae, Banksia sphaerocarpa, Astroloma epacridis, Grevillea tenuiflora, Grevillea hookeriana, Persoonia quinquenervis, Dampiera* species and *Conospermum amoenum.*

Photograph 19: Tall Kwongan with *Dryandra nobilis, Dryandra stuposa* and *Eucalyptus drummondii* on Bald Rock block.

Photograph 20: Tall Kwongan with *Dryandra stuposa* prominent on Palmer Block.

LITHIC COMPLEX - GRANITE

Sites Peters 1, Skelton 12, Bald Rock 1

Description

Rock Surface

Shallow Soil Dense Herbs to Open Herbs of *Borya* species form a mat on flat areas on shallow soils where the rock is sub surface. Mosses and lichens cover areas of bare rock.

Rock Crevices

Shallow Soil Scattered shrubs growing in shallow soils in rock crevices include *Dodonaea viscosa, Melaleuca radula* and *Thryptomene australis* with *Cheilanthes austrotenuifolia* and *Stypandra glauca* also characteristic.

Deeper Soil-border of Rock Outcrops A strip of *Lepidosperma* Tall Sedges forming an understorey in the *Allocasuarina huegeliana* Low Forest bordering the outcrops. Scattered *Acacia acuminata* and *Hakea petiolaris* occur in places and *Eucalyptus rudis* was recorded at site Skelton 12.

4.0 FLORA OF DRYANDRA FOREST

A total of 853 plant species are recorded in Appendix 1 as occurring in the area of Dryandra Forest, including 7 species of fungi, 4 species of fern, 3 gymnosperms and 839 angiosperms. Seventy of the species recorded are exotic or introduced. Manuscript names (ms) have been included to help differentiate between undescribed species within a particular genus. Identifications with the generic name followed by "?" are uncertain due to a lack of flowering or fruiting material or to confusion in the current taxonomy of the group concerned. Affinity or "aff." is used in relation to undescribed species which are very similar to named species yet different enough to be kept as separate taxa. The nomenclature follows that of Green (1985) and Supplement 7 (Nov. 1988 unpublished) unless otherwise specified below.

Eucalyptus phaenophylla and *Eucalyptus plauricaulis* (Brooker and Hopper 1991)
Verticordia eriocephala and *Verticordia tumida* (George 1991)
New combinations and new taxa in *Gastrolobium, Nemcia, Gompholobium* and *Burtonia* (Crisp and Weston 1987)
Orchidaceae - new combinations and new taxa (Hoffman and Brown 1992)
Gnephosis pusilla (Short 1987)
Hyalospermum cotula, Hyalospermum demissum (Wilson 1989)
Goodenia convexa, Goodenia helmsii (Carolin 1990)

The Plant Species List (Appendix 1) is the combination of a "Dryandra Flora Checklist" compiled by Ms Sue Patrick from records and recent identifications recorded at the Western Australian Herbarium and "A vascular plant list for Dryandra State Forest" compiled by Dr Greg Keighery and Mr David Rose. Only 7 species were added to the list from collections made during the present survey.

The families with the largest representatives of genera and species are listed below:

Family	No. of Species	No. of Genera	No. of Exotics
Myrtaceae (Eucalyptus, bottlebrushes etc)	72	16	0
Asteraceae (daisies)	71	38	13
Proteaceae (Banksia, Dryandra etc)	70	11	0
Papilionaceae (pea flowers)	68	17	4
Orchidaceae (orchids)	63	19	1
Mimosaceae (wattles)	33	1	2
Poaceae (grasses)	32	22	16
Anthericaceae (lilies)	29	10	0
Cyperaceae (sedges)	25	9	1

The families Myrtaceae, Asteraceae, Papilionaceae and Proteaceae were the most strongly represented in the flora of Dryandra Forest. Of the monocotyledons, members of the families Orchidaceae, Poaceae, Anthericaceae and Cyperaceae are the most common.

4.1 Species of Interest

Plant species of interest recorded for Dryandra Forest are listed in Table 4. These species have been classified by the Department of Conservation and Land Management into categories which reflect their conservation status. These categories are listed below. A gazetted rare plant, *Caladenia integra* and 17 priority species are recorded in Table 4.

CONSERVATION CODES

R: Declared Rare Flora - Extant Taxa

Taxa which have been adequately searched for and are deemed to be in the wild either rare, in danger of extinction, or otherwise in need of special protection, and have been gazetted as such.

X: Declared Rare Flora - Presumed Extinct Flora

Taxa which have not been collected, or otherwise verified, over the past 50 years despite thorough searching, or of which known wild populations have been destroyed more recently, and have been gazetted as such.

1: Priority One - Poorly Known Taxa

Taxa which are known from one or a few (generally <5) populations, which are under threat either due to small population size, or being on lands under immediate threat, eg. road verges, urban areas, farmland, active mineral leases, etc., or the plants are under threat, eg. from disease, grazing by feral animals, etc. May include taxa with threatened populations on protected lands. Such taxa are under consideration for declaration as 'rare flora', but are in urgent need of further survey.

2: Priority Two - Poorly Known Taxa

Taxa which are known from one or a few (generally <5) populations, at least some of which are not believed to be under immediate threat (ie. not currently endangered). Such taxa are under consideration for declaration as 'rare flora', but are in urgent need of further survey.

3: Priority Three - Poorly Known Taxa

Taxa which are known from several populations, at least some of which are not believed to be under immediate threat (ie. not currently endangered). Such taxa are under consideration for declaration as 'rare flora' but are in need of further survey.

4: Priority Four - Rare Taxa

Taxa which are considered to have been adequately surveyed and which whilst being rare (in Australia), are not currently threatened by any identifiable factors. These taxa require monitoring every 5-10 years.

TABLE 4: DRYANDRA STATE FOREST - RARE AND PRIORITY FLORA
(28 October 1992 - Priority Flora List)

SPECIES	CODE	COLLECTED BY	DISTRIBUTION (CALM PRIORITY FLORA LIST)
Acacia deflexa	2	Rose	Toolibin, Bendering, Dryandra Forest - Montague Block
Acacia semitrullata	3	Keighery	Yallingup, Donnybrook, Harvey, Yarloop
Andersonia bifida	2	Rose	Dryandra
Caladenia integra	R	Rose	York-Kendenup
Darwinia thymoides ssp. nov	4	Keighery	St. Ronans Nature Reserve, Dryandra
Darwinia sp. *dryandra* (aff. *vestita*), *dryandrensis* (ms)	4	Alford and Keighery 64	Dryandra
Dryandra cynaroides	2	Rose	Brookton, Williams, Dumbleyung
Dryandra subpinnatifida	3	Rose and Keighery	Dryandra, Birdwhistle, Kojonup, Broomehill
Dryandra aff. *hewardiana* (ASG sp. 1)	2	K S Beard 8140	Woodanilling to Katanning
Eucalyptus latens	4	Rose	North Bannister, York, Kulin, Dryandra, Highbury
Grevillea crowleyi (ms)	1	Rose	Darkan
Hemigenia ?platyphylla	4	Rose	Mt. Bakewell
Hibbertia montana	4	Rose	Mt. Bakewell, Bodakine Hills, Boyagin Rock, Dryandra
Nemcia stipularis	4	Rose	Brookton, Boyagin, Dryandra, Highbury
Persoonia hakeiformis	2	Rose	Mogumber, Grass Patch, Dryandra
Rinzia crassifolia	3	Rose	Watheroo, Darling Range, Meckering, York
Schoenus aff. *clandestinus*	2	Keighery/Alford	St. Ronans Nature Reserve, Mokine Nature Reserve
Thysanotus tenuis	3	Rose	Northam, Wagin

5.0 ACKNOWLEDGMENTS

Thanks are given to the following people:

Dr G Keighery and Ms S Patrick for making available their plant species lists for Dryandra Forest and their assistance with the compilation of Appendix 1.

The curator of the Western Australian Herbarium for permission to consult the collection.

Mrs B Kennington for her excellent word-processing, arranging and checking.

6.0 REFERENCES

Beard, J S (1979) "The Vegetation of the Pinjarra Area, WA" Map and Explanatory Memoir. 1:250 000 series Vegmap Publications, Perth

Beard, J S (1980) "The Vegetation of the Corrigin Area, WA" Map and Explanatory Memoir. 1:250 000 series Vegmap Publications, Perth

Brooker, M I H and Hopper, S D (1991) "A taxonomic revision of the *Eucalyptus wandoo, Eucalyptus redunca* and allied species (*Eucalyptus* series Levispermae Maiden-Myrtaceae) in WA". Nuytsia Vol 8(1)

Carolin, R (199) "Nomenclatural notes and new taxa in the genus *Goodenia* (Goodeniaceae). Telopea Vol 3(4)

Crisp, M D and Weston, P H (1987) "Cladistics and Legume systematics with an analysis of the Bossiaceae, Brongniartieae and Mirbelieae." In Advances in Legume Systematics Part 3 Edited by C H Stirton. Royal Bot. Gardens, Kew

George, A S (1991) "New Taxa, combinations and typifications in *Verticordia* (Myrtaceae: Chamelaucieae). Nuytsia Vol 7(3)

Green, J W (1985) "Census of the Vascular Plants of WA." Department of Agriculture, Perth

Hoffmann, N and Brown, A (1992) "Orchids of South-West Australia" 2nd Edition, University of WA Press

McArthur, W M., Churchward, H M and Hick, P T (1977) "Landforms and Soils of the Murray River Catchment Area of Western Australia." CSIRO Aust. Div. Land Resour. Mgmt. Ser. No. 3, 1-23

Muir, B G (1977) "Vegetation and Habitat of Bendering Reserve" Part 2 of Biological Survey of the Western Australian Wheatbelt. Rec. West. Aust. Mus. Suppl. No. 3

Short, R S (1987) "Notes on *Gnephosis* Cass. (Compositeae:Inuleae:Gnaphaliinae)." Muelleria Vol 6(5)

Wilson, P G (1989) "A Revision of the genus *Hyalospermum* (Asteraceae:Inuleae:Gnaphaliinae)." Nuytsia Vol 7(1)

APPENDIX 1
PLANT SPECIES LIST FOR DRYANDRA FOREST

*	Introduced species
R	recorded by David Rose
K	recorded by Greg Keighery
B	recorded by both David Rose and Greg Keighery
C	recorded by Anne Coates

FUNGI

Amanita murina	A.Saar 6.74
Amanita sp.	A.Saar 29.7.78
Boletus caesareus	A.Saar 29.7.78
Clavaria sp.	A.Saar 29.7.78
Cortinarius sp.	A.Saar 29.7.78
Polyporus sp.	A.Saar 1974
Phaeogyroporus portentosus	anon

FERNS

LYCOPODIACEAE

Phylloglossum drummondii	K

OPHIOGLOSSACEAE

Ophioglossum lusitanicum	K

ADIANTACEAE

Cheilanthes austrotenuifolia	B

ASPLENIACEAE

Pleurosorus rutifolius	K

GYMNOSPERMS

ZAMIACEAE

Macrozamia riedlei	B

PINACEAE

* Pinus pinaster	B

CUPRESSACEAE

Callitris roei	Currie n.d.

MONOCOTYLEDONS

ALLIACEAE

*	Allium triquetrum	K

AMARYLLIDACEAE

*	Narcissus tazetta	K

ANTHERICACEAE

	Agrostocrinum scabrum	B
	Arthropodium capillipes	K
	Arthropodium curvipes	K
	Arthropodium preissii	R
	Arthropodium sp.A	K 1983
	Borya constricta	K
	Borya laciniata	K
	Borya scirpoidea	B
	Borya sphaerocephala	R
	Borya sp.	M.G.Corrick 8410 12.10.82
	Caesia alfordii (ms).	R
	Caesia micrantha	B
	Chamaescilla corymbosa	R
	Chamaescilla corymbosa var. corymbosa	K 83
	Chamaescilla spiralis	B
	Corynotheca micrantha	K
	Laxmannia grandiflora subsp. grandiflora	R
	Laxmannia omnifertilis	K
	Laxmannia ramosa	K
	Laxmannia squarrosa	B
	Sowerbaea laxiflora	B
	Thysanotus asper	K
	Thysanotus manglesianus	R
	Thysanotus multiflorus	R
	Thysanotus patersonii	B
	Thysanotus sparteus	R
	Thysanotus tenellus	R
	Thysanotus tenuis	R P3
	Thysanotus thyrsoideus	R
	Tricoryne elatior	B

ARACEAE

*	Zantedeschia aethiopica	K

ASPARAGACEAE

*	Myrsiphyllum asparagoides	K

ASPHODELACEAE

	Bulbine semibarbata	K

CENTROLEPIDACEAE

	Aphelia brizula	K	
	Aphelia cyperoides	K	
	Aphelia nutans	K	
	Centrolepis aristata	K	
	Centrolepis drummondiana	K	
	Centrolepis ?inconspicua	K	
	Centrolepis glabra	K	
	Centrolepis pilosa	K	
	Centrolepis polygyna	K	

COLCHICACEAE

	Burchardia multiflora	R	
	Burchardia umbellata	K	
	Wurmbea dioica	B	
	Wurmbea tenella	K	

CYPERACEAE

	Carex inversa	K	
	Caustis dioica	K	
	Chorizandra enodis	B	
*	Cyperus tenellus	K	
	Gahnia ancistrophylla	K	
	Gahnia drummondii	K	
	Isolepis cyperoides	K	
	Isolepis marginata	K	
	Isolepis oldfieldiana	K	
	Isolepis stellata	K	
	Lepidosperma ?angustatum	K	
	Lepidosperma longitudinale	K	
	Lepidosperma ?scabrum	K	
	Lepidosperma viscidum	K	
	Lepidosperma sp.	B	
	Mesomelaena preissii	R	
	Mesomelaena stygia	R	
	Schoenus brevisetis	K	
	Schoenus aff. clandestinus	K	P2
	Schoenus curvifolius	K	
	Schoenus globifer	K	
	Schoenus nanus	K	
	Schoenus odontocarpus	K	
	Schoenus subbulbosus	K	
	Schoenus tenellus		

DASYPOGONACEAE

	Chamaexeros serra	B	
	Lomandra collina	K	
	Lomandra effusa	K	
	Lomandra micrantha	K	
	Lomandra mucronata	K	
	Lomandra purpurea	K	

HAEMODORACEAE

Anigozanthos bicolor ssp. exstans	K
Anigozanthos humilis subsp. humilis	R
Conostylis aculeata ssp. bromelioidesK	
Conostylis petrophiloides	R
Conostylis serrulata	K
Conostylis setigera	R
Haemodorum discolor	R
Haemodorum simplex	R
Haemodorum sparsiflorum	K
Haemodorum spicatum	K
Tribonanthes longipetala	R
Tribonanthes violacea	K

HYDATELLACEAE

Trithuria bibracteata	K
Trithuria submersa	K

HYPOXIDACEAE

Hypoxis glabella	K
Hypoxis occidentalis	K

IRIDACEAE

*	Chasmanthe floribunda	K
*	Freesia leichtlinii	K
*	Gynandriris setifolia	K
*	Homeria flaccida	K
	Orthrosanthus laxus	B
	Patersonia juncea	B
	Patersonia occidentalis	B
*	Romulea rosea	K

JUNCACEAE

	Juncus bufonius	K
*	Juncus capitatus	K
	Juncus ?pauciflorus	K
	Juncus pallidus	K
	Luzula meridionalis	

JUNCAGINACEAE

Triglochin calcitrapa	K
Triglochin centrocarpa	K
Triglochin procera	K

ORCHIDACEAE

Burnettia nigricans	B
Caladenia cairnsiana	K
Caladenia denticulata	B
Caladenia dimidia	A.S.George 11054 29.9.71
Caladenia discoidea	R
Caladenia falcata	B
Caladenia filifera	K

	Caladenia flava	B	
	Caladenia footeana	K	
	Caladenia hirta subsp. rosea	K	
	Caladenia integra	R	R
	Caladenia latifolia	B	
	Caladenia longicauda subsp. longicauda	B	
	Caladenia longicauda subsp. eminens	B	
	Caladenia longiclavata	B	
	Caladenia macrostylis	R	
	Caladenia marginata	K	
	Caladenia ?nana	k	
	Caladenia reptans	R	
	Caladenia saccharata	B	
	Caladenia uliginosa subsp. candicans	R	
	Caladenia uliginosa subsp. uliginosa	R	
	Caladenia varians subsp. talbotii	R	
	Caladenia xantha	B	
	Calochilus robertsonii	R	
	Calochilus aff. robertsonii	R	
	Cyanicula deformis	B	
	Cyanicula gemmata	R	
	Cyanicula sericea	R	
	Cyrtostylis huegelii	B	
	Diuris aff. corymbosa	B	
	Diuris laxiflora	R	
	Diuris setacea	R	
	Drakaea sp.	K	
	Drakonorchis barbarossa	R	
	Elythranthera brunonis	B	
	Elythranthera emarginata	R	
	Eriochilus dilatatus	B	
	Leporella fimbriata	B	
	Leptoceras menziesii	R	
	Lyperanthus serratus	R	
	Microtis alba	K	
	Microtis media	K	
*	Monadenia bracteata	R	
	Paracaleana nigrita	R	
	Prasophyllum cyphochilum	R	
	Prasophyllum ringens	K	
	Prasophyllum sargentii	R	
	Pterostylis aspera	R	
	Pterostylis barbata	B	
	Pterostylis aff. nana	B	
	Pterostylis recurva	B	
	Pterostylis aff. rufa	R	
	Pterostylis sargentii	R	
	Pterostylis sanguinea	B	
	Spiculaea ciliata	B	
	Thelymitra azurea	B	
	Thelymitra antennifera	B	
	Thelymitra benthamiana	R	
	Thelymitra canaliculata	K	
	Thelymitra crinita	R	
	Thelymitra macrophylla	R	
	Thelymitra pauciflora	K	
	Thelymitra spiralis	K	
	Thelymitra villosa	R	

PHILYDRACEAE

	Philydrella pygmaea	B

PHORMIACEAE

	Dianella revoluta var. revoluta	K
	Dianella revoluta var. divaricata	R
	Dianella revoluta var. breviculmis	K
	Stypandra glauca	R

POACEAE

	Agrostis avenacea	K
*	Aira cupaniana	K
	Amphibromus neesii	K
	Amphipogon strictus	K
	Amphipogon turbinatus	K
	Aristida ?contorta	K
*	Avena barbata	K
*	Avena fatua	A
*	Avena sativa	K
*	Briza maxima	K
*	Briza minor	K
*	Bromus diandrus	K
	Cymbopogon obtectus	K
*	Cynodon dactylon	K
	Danthonia caespitosa	K
	Danthonia setacea	K
*	Digitaria sanguinalis	K
*	Ehrbarta longiflora	K
*	Hordeum leporinum	K
*	Lolium multiflorum	K
	Neurachne alopecuroidea	B
*	Pentaschistis airoides	K
*	Periballia minuta	K 83
*	Poa annua	K
	Poa drummondiana	K
	Poa ?serpentum	K
	Stipa compressa	K
	Stipa elegantissima	K
	Stipa macalpinei	K
	Stipa trichophylla	K
	Themeda australis	K
*	Vulpia myuros	K

RESTIONACEAE

	Harperia lateriflora	K
	Hypolaena exsulca	K
	Lepidobolus chaetocephalus	K
	Lepidobolus preissianus	R
	Lepyrodia sp.	B
	Loxocarya aspera (ms)	K
	Loxocarya fasciculata	K
	Loxocarya flexuosa	K
	Lyginia barbata	K
	Restio megalotheca	K
	Restio sphacelatus	K

Restio sp.221	R

XANTHORRHOEACEAE

Xanthorrhoea drummondii	B
Xanthorrhoea preissii	R

ZANNICHELLIACEAE

Lepilaena australis	

DICOTYLEDONS

AMARANTHACEAE

Ptilotus declinatus	B
Ptilotus drummondii	K
Ptilotus humilis var. humilis	R
Ptilotus manglesii	R
Ptilotus polystachyus	R
Ptilotus stirlingii	R

APIACEAE

Daucus glochidiatus	K
Eryngium pinnatifidum	R
Homalosciadium homalocarpum	K
Hydrocotyle alata	K
Hydrocotyle callicarpa	K
Hydrocotyle diantha	K
Hydrocotyle pilifera var. glabrata	
Hydrocotyle rugulosa	
Trachymene cyanopetala	B
Trachymene ornata	B
Trachymene pilosa	B
Xanthosia atkinsoniana ssp. nov.	B
Xanthosia candida	K
Xanthosia ciliata	K
Xanthosia huegelii	K

ASTERACEAE

	Actinobole uliginosum	K
	Angianthus tomentosus	K
*	Arctotheca calendula	K
	Asteridea nivea	R
	Blennospora drummondii	K
	Brachycome ?glandulosa	K
	Brachycome iberidifolia	R
	Brachycome perpusilla	K
	Brachycome pusilla	K
	Brachycome sp. D.Rose 211	R
	Calocephalus angianthoides	K
*	Carduus pycnocephalus	K
*	Centaurea melitensis	B
	Ceratogyne obionoides	K
	Chrysocephalum aff. semipapposum	R
*	Cirsium vulgare	K
	Cotula australis	K

*	Cotula bipinnata	K
	Cotula coronopifolia	K
	Cotula cotuloides	K
	Cotula drummondii	K
	Craspedia pleiocephala	R
	Craspedia sp.A D.Rose 148	R
*	Dittrichia graveolens	K
	Gnaphalium sphaericum	K
	Gnephosis drummondii	N.T.Burbidge 7892 22.12.71
	Gnephosis pusilla	K
	Helichrysum leucopsideum	B
	Helichrysum lindleyi	R
	Helichrysum obtusifolium	R
	Helichrysum semipapposum	K
	Helipterum corymbosum	K
	Helipterum laeve	K
	Helipterum pygmaeum	K
	Helipterum manglesii	B
	Helipterum niveum	B
	Hyalospermum cotula	B
	Hyalospermum demissum	K
*	Hypochaeris glabra	K
	Lagenifera huegelii	B
	Millotia tenuifolia	S.Paust 15.9.71
	Millotia sp.	K
	Myriocephalus isoetes	K
	Myriocephalus rhizocephalus	R
	Olearia elaeophila	K
	Olearia muricata	K
	Olearia rudis	K
*	Osteospermum clandestinum	K
	Pithocarpa pulchella	K
	Podolepis canescens	R
	Podolepis gracilis	R
	Podolepis lessonii	R
	Podotheca angustifolia	R
	Podotheca gnaphalioides	K
*	Pseudognaphalium luteo-album	K
	Quinetia urvillei	K
	Rutidosis multiflorus	K
	Senecio glossanthus	K
	Senecio hispidulus	K
	Senecio quadridentatus	K
	Siloxerus humifusus	K
*	Sonchus asper	K
*	Sonchus oleraceus	K
	Trichocline spathulata	R
*	Ursinia anthemoides	K
*	Vellereophyton dealbatum	K
	Waitzia acuminata	R
	Waitzia aurea	R
	Waitzia citrina	R
	Waitzia paniculata	R
	Waitzia suaveolens	K

BORAGINACEAE

Halgania preissiana	R

	BRASSICACEAE		
*	Brassica tournefortii	K	
	Lepidium rotundum	K	
	CAESALPINIACEAE		
	Labichea lanceolata	K	
	CAMPANULACEAE		
	Wahlenbergia preissii	B	
	CARYOPHYLLACEAE		
*	Cerastium glomeratum	K	
*	Moenchia erecta	K	
*	Silene gallica var. gallica	K	
*	Petrorhagia prolifera	K	
	CASUARINACEAE		
	Allocasuarina campestris	R	
	Allocasuarina huegeliana	B	
	Allocasuarina humilis	B	
	Allocasuarina microstachya	R	
	Allocasuarina thuyoides	R	
	CHENOPODIACEAE		
*	Chenopodium album	K	
	CHLOANTHACEAE		
	Chloanthes coccinea	R	
	Dicrastylis reticulata	K	
	CLUSIACEAE		
	Hypericum gramineum	K	
	CRASSULACEAE		
	Crassula colorata	K	
	Crassula decumbens	K	
	Crassula exserta	K	
	Crassula pedicellosa	K	
*	Crassula natans	K	
	DILLENIACEAE		
	Hibbertia acerosa	B	
	Hibbertia commutata	R	
	Hibbertia ?commutata	B	
	Hibbertia enervia	B	
	Hibbertia exasperata	R	
	Hibbertia ?hypericoides	B	
	Hibbertia microphylla	R	
	Hibbertia montana	R	P4

	Hibbertia polystachya	R	
DROSERACEAE			
	Drosera bulbosa	K	
	Drosera gigantea	A	
	Drosera glanduligera	B	
	Drosera leucoblasta	B	
	Drosera macrantha	B	
	Drosera menziesii subsp. menziesii	R	
	Drosera platystigma	R	
	Drosera pycnoblasta	K	
	Drosera stolonifera	K	
	Drosera subhirtella subsp. subhirtella	R	
EPACRIDACEAE			
	Andersonia bifida	R	P2
	Andersonia caerulea	B	
	Andersonia lehmanniana subsp. pubescens	K	
	Andersonia parvifolia	K	
	Astroloma ciliatum	K	
	Astroloma compactum	R	
	Astroloma drummondii	R	
	Astroloma epacridis	B	
	Astroloma pallidum	B	
	Astroloma serratifolium	K	
	Astroloma serratifolium var. placidum	R	
	Astroloma sp.	K	1987
	Leucopogon assimilis	K	
	Leucopogon conostephioides	K	
	Leucopogon cuneifolius	K	
	Leucopogon dielsianus	B	
	Leucopogon fimbriatus	B	
	Leucopogon nutans	R	
	Leucopogon obtusatus	K	
	Leucopogon oxycedrus	R	
	Leucopogon pendulus	K	
	Leucopogon polymorphus	R	
	Leucopogon sprengelioides	K	
	Leucopogon sp.D.Rose 028	R	
	Leucopogon sp.D.Rose 328	R	
	Leucopogon sp.D.Rose 601	R	
	Leucopogon sp.	K	
	Lysinema ciliatum	B	
	Styphelia tenuiflora	B	
EUPHORBIACEAE			
	Beyeria lechenaultii	K	
	Beyeria sp.	R	
*	Euphorbia peplus	K	
	Monotaxis grandiflora	K	
	Phyllanthus calycinus	B	
	Poranthera ericoides	R	

GENTIANACEAE

*	Centaurium erythraea	B
*	Cicendia filiformis	K
	Sebaea ovata	K

GERANIACEAE

*	Erodium cicutarium	K
	Erodium cygnorum	K
	Pelargonium havlasae	K

GOODENIACEAE

Anthotium humile	B
Anthotium sp.	R
Dampiera coronata	K
Dampiera eriocephala	B
Dampiera lavandulacea	K
Dampiera lindleyi	K
Dampiera lindleyi var. angusta	R
Dampiera linearis	K
Dampiera loranthifolia	R
Dampiera obliqua	R
Dampiera oligophylla ssp. juncea	K
Dampiera preissii	R
Dampiera sacculata	B
Dampiera wellsiana	K
Goodenia affinis	K
Goodenia berardiana	K
Goodenia caerulea	B
Goodenia convexa	K
Goodenia filiformis	K
Goodenia helmsii	K
Goodenia incana	B
Goodenia pinifolia	K
Goodenia scapigera	B
Goodenia watsonii	R
Lechenaultia biloba	B
Lechenaultia formosa	B
Lechenaultia tubiflora	K
Scaevola fasciculata	R
Scaevola platyphylla	R
Scaevola? paludosa	K
Scaevola phlebopetala	K
Scaevola restiacea	K
Velleia cycnopotamica	K
Velleia trinervis	B
Verreauxia reinwardtii	K

GYROSTEMONACEAE

Gyrostemon subnudus	R

HALORAGACEAE

Glischrocaryon aureum	K
Glischrocaryon roei	R
Glischrocaryon flavescens	R

	Gonocarpus cordiger	R	
	Gonocarpus nodulosus	K	
	LAMIACEAE		
	Hemiandra incana	R	
	Hemiandra pungens	R	
	Hemigenia drummondii	R	
	Hemigenia ?platyphylla	R	P4
	Hemigenia pritzelii	R	
	Hemigenia ramosissima	R	
	Hemigenia sericea	R	
	Hemigenia ?sericea	B	
	?Hemigenia sp.D.Rose 434	R	
	Microcorys barbata	R	
	Microcorys capitata	R	
	Microcorys aff. exserta	R	
	Microcorys lenticularis	R	
	Microcorys aff. loganiacea	R	
	Microcorys sp. D.Rose 325	R	
*	Stachys arvensis	K	
	LAURACEAE		
	Cassytha flava	K	
	Cassytha glabella	B	
	Cassytha racemosa	R	
	LENTIBULARIACEAE		
	Utricularia multifida	R	
	Utricularia tenella	K	
	LINACEAE		
	Linum marginale	K	
	LOBELIACEAE		
	Isotoma hypocrateriformis	B	
	Isotoma scapigera	R	
	Lobelia gibbosa	K	
	Lobelia heterophylla	K	
	Lobelia rarifolia	R	
	Lobelia rhombifolia	R	
	Lobelia rhytidosperma	R	
	LOGANIACEAE		
	Logania campanulata	R	
	Logania tortuosa	R	
	Logania sp.	R	
	Mitrasacme paradoxa	K	
	LORANTHACEAE		
	Amyema miquelii	B	
	Amyema preissii	K	
	Nuytsia floribunda	B	

LYTHRACEAE

*	Lythrum hyssopifolia	K	

MIMOSACEAE

	Acacia acuminata	B	
	Acacia alata	R	
	Acacia browniana var. intermedia	K.Atkins 12.12.88	
	Acacia celastrifolia	B	
	Acacia chrysocephala	B	
*	Acacia dealbata	K	
	Acacia deflexa	R	P2
	Acacia dentifera	R	
	Acacia drummondii subsp. candolleana	K	
	Acacia drummondii subsp. drummondii	R	
	Acacia gilbertii	R	
	Acacia huegelii	K	
	Acacia insolita subsp. insolita	R	
	Acacia lateriticola	R	
	Acacia lasiocarpa	B	
	Acacia lasiocarpa var. sedifolia	R	
	Acacia leptospermoides subsp.leptospermoides	R	
	Acacia microbotrya	K	
	Acacia multispicata	R	
	Acacia pulchella var. glaberrima	R	
	Acacia pulchella var. glaberrima (small leaf variant)	B	
	Acacia pulchella	B	
*	Acacia pycnantha	K	
	Acacia rigida (ms).	G.S.Durell 11.5.89	
	Acacia saligna	B	
	Acacia semitrullata	K	P3
	Acacia sphacelata subsp. sphacelata	K	
	Acacia squamata	R	
	Acacia stenoptera	R	
	Acacia subflexuosa subsp. subflexuosa	R	
	Acacia willdenowiana	R	
	Acacia sp. (aff. willdenowiana)	J.M.Brown 228	12.9.85
	Acacia sp. D.Rose 551	R	
	Acacia sp. D.Rose 593	R	
	Acacia sp. D.Rose 264	R	
	Acacia sp. G.Keighery 9316	K	
	Acacia sp. G.Keighery 9277	K	

MOLLUGINACEAE

	Macarthuria sp. aff. apetala	R	

MYRTACEAE

	Baeckea camphorosmae	R	
	Baeckea crispiflora	B	
	Baeckea preissiana	R	
	Beaufortia bracteosa	K	
	Beaufortia incana	R	
	Beaufortia micrantha var. puberula	R	
	Callistemon phoeniceus	K	
	Calothamnus planifolius	R	
	Calothamnus preissii	R	

Calothamnus quadrifidus	B	
Calothamnus sanguineus	R	
Calytrix angulata	R	
Calytrix flavescens	K	
Calytrix leschenaultii	R	
Calytrix simplex subsp. suboppositifolia	R	
Chamelaucium croxfordii (ms)	R	P1
Darwinia thymoides subsp. nov.(Alford & Keighery 64)	K	P4
Darwinia sp. 11 'dryandrensis' (aff. vestita)	B	P4
Eremaea pauciflora	B	
Eucalyptus accedens	B	
Eucalyptus accedens x incrassata	I.Brooker 9955 1988	
Eucalyptus albida	K	
Eucalyptus anceps	R	
Eucalyptus astringens	R	
Eucalyptus calophylla	B	
Eucalyptus drummondii	B	
Eucalyptus falcata	R	
Eucalyptus gardneri	R	
Eucalyptus hebetifolia (ms).	I.Brooker 9366 27.6.86	
Eucalyptus incrassata	R	
Eucalyptus latens		P4
Eucalyptus aff. latens	I.Brooker 9364 27.6.86	
Eucalyptus loxophleba	R	
Eucalyptus marginata	B	
Eucalyptus patens	A.R.Main sn. 5.12.56	
Eucalyptus phaenophylla	K	
Eucalyptus phaenophylla x wandoo	K	
Eucalyptus pluricaulis	C	
Eucalyptus pluricaulis subsp. pluricaulis (ms) I.Brooker 9372 27.6.86		
Eucalyptus rudis	R	
Eucalyptus subangusta x wandoo	K	
Eucalyptus uncinata	I.Brooker 9368 27.6.86	
Eucalyptus wandoo	R	
Hypocalymma angustifolium	B	
Kunzea micrantha	R	
Kunzea micromera	R	
Kunzea preissiana	R	
Kunzea ?recurva	K	
Kunzea aff. montana	K	
Leptospermum erubescens	B	
Leptospermum spinescens	B	
Melaleuca acuminata	R	
Melaleuca cardiophylla	R	
Melaleuca haplantha	C	
Melaleuca incana	R	
Melaleuca platycalyx	K	
Melaleuca radula	R	
Melaleuca scabra	B	
Melaleuca seriata	R	
Melaleuca seriata/ scabra group	R	
Melaleuca subtrigona	K	
Melaleuca uncinata	B	
Melaleuca sp.	R	
Regelia inops	K	
Rinzia crassifolia	R	P3
Rinzia fumana	K	
Rinzia sp.	K	

Verticordia acerosa	R
Verticordia densiflora	R
Verticordia eriocephala	C
Verticordia huegelii	R
Verticordia insignis	R
Verticordia pennigera	R
Verticordia serrata	R
Verticordia tumida subsp. therogana	R
Verticordia sp. Rose 592	

OLACACEAE

Olax benthamiana	B

OROBANCHACEAE

* Orobanche minor	B

OXALIDACEAE

Oxalis perennans	K
* Oxalis pes-caprae	K
* Oxalis purpurea	K

PAPILIONACEAE

Bossiaea eriocarpa	B
Bossiaea peduncularis	R
Bossiaea spinescens	K
Chorizema aciculare	B
Chorizema dicksonii	R
Daviesia angulata	K
Daviesia cardiophylla	K
Daviesia cordata	R
Daviesia costata	R
Daviesia decurrens	B
Daviesia flexuosa	R
Daviesia hakeoides	B
Daviesia cf. incrassata	R
Daviesia longifolia	R
Daviesia nudiflora	K
Daviesia rhombifolia	B
Daviesia ?triflora	K
Daviesia trigonophylla	K
Daviesia sp. D.Rose 071	R
Dillwynia sp. D.Rose 152	B
Eutaxia sp. D.Rose 382	R
Gastrolobium bilobum	K
Gastrolobium calycinum	B
Gastrolobium microcarpum	R
Gastrolobium parviflorum	K
Gastrolobium spathulatum	R
Gastrolobium spinosum	B
Gastrolobium trilobum	R
Gastrolobium ?villosum	K
Gompholobium confertum	R
Gompholobium burtonioides	R
Gompholobium knightianum	R
Gompholobium marginatum	B

	Gompholobium preissii	R	
	Gompholobium scabrum	B	
	Gompholobium tomentosum	B	
	Gompholobium venustum	R	
	Goodia lotifolia	B	
	Hovea chorizemifolia	B	
	Hovea trisperma	B	
	Isotropis cuneifolia	B	
	Isotropis drummondii	R	
	Jacksonia alata	R	
	Jacksonia condensata	K	
	Jacksonia floribunda	R	
	Jacksonia furcellata	K	
	Jacksonia racemosa	R	
	Jacksonia restioides	R	
	Jacksonia sternbergiana	R	
	Jacksonia sp.'Boyagin, Foreman 1068'	E.C.Nelson ANU 16908 10.11.72	
	Jacksonia sp. (Rose 412)	R	
	Kennedia coccinea	R	
	Kennedia prostrata	B	
*	Medicago polymorpha	K	
	Mirbelia dilatata	B	
	Mirbelia floribunda	R	
	Mirbelia spinosa	R	
	Nemcia capitata	R	
	Nemcia carinata	K	
	Nemcia hookeri	R	
	Nemcia obovata	R	
	Nemcia stipularis	R	P4
	Nemcia sp.	R	
	Sphaerolobium medium	K	
	Sphaerolobium sp.	R	
*	Trifolium campestre	K	
*	Trifolium glomeratum	K	
*	Trifolium subterraneum	K	

PITTOSPORACEAE

Billardiera bicolor	R	
Billardiera coriacea	R	
Billardiera erubescens	R	
Billardiera variifolia	R	
Billardiera sp. D.Rose 397 aff. drummondiana	B	
Cheiranthera filifolia	K	
Sollya heterophylla	R	

PLANTAGINACEAE

Plantago debilis

POLYGALACEAE

Comesperma calymega	R	
Comesperma scoparium	R	
Comesperma virgatum	R	
Comesperma volubile	R	

POLYGONACEAE

	Muehlenbeckia adpressa	B
	Polygonum prostratum	R

PORTULACACEAE

	Calandrinia calyptrata	K
	Calandrinia granulifera	K

PRIMULACEAE

*	Anagallis arvensis	K

PROTEACEAE

	Adenanthos cygnorum	B
	Banksia grandis	R
	Banksia sphaerocarpa	B
	Banksia sphaerocarpa var. sphaerocarpa	K
	Conospermum amoenum subsp. cuneatum	B
	Conospermum distichum	B
	Conospermum filifolium subsp. filifolium (ms)	K 83
	Conospermum floribundum	B
	Conospermum incurvum	K
	Conospermum stoechadis	C
	Dryandra arctotidis	C
	Dryandra armata	B
	Dryandra bipinnatifida	B
	Dryandra cynaroides	R P2
	Dryandra drummondii	B
	Dryandra erythrocephala	K
	Dryandra aff. hewardiana (A.S.G. sp. 1)	J.Beard 8140 18.10.77 P2
	Dryandra ?ferruginea	K
	Dryandra fraseri	B
	Dryandra nivea	B
	Dryandra aff. nivea ASG sp. 28	B
	Dryandra nobilis	B
	Dryandra proteoides	B
	Dryandra aff. seneciifolia ASG sp. 4	
	Dryandra sessilis	B
	Dryandra squarrosa	R
	Dryandra stuposa	B
	Dryandra subpinnatifida	B P3
	Grevillea acerosa	R
	Grevillea bipinnatifida	C
	Grevillea crowleyi (ms)	R P1
	Grevillea hookeriana	R
	Grevillea integrifolia subsp. integrifolia	R
	Grevillea leptobotrya	R
	Grevillea pulchella	K
	Grevillea tenuiflora	B
	Hakea baxteri	B
	Hakea erinacea	R
	Hakea gilbertii	R
	Hakea incrassata	B
	Hakea lehmanniana	K
	Hakea lissocarpha	B
	Hakea prostrata	B

Hakea ruscifolia	R	
Hakea trifurcata	B	
Hakea undulata	B	
Hakea sp. D.Rose 594	R	
Isopogon divergens	K	
Isopogon dubius	B	
Isopogon teretifolius	R	
Isopogon sp.	K	
Lambertia ilicifolia	R	
Persoonia elliptica	R	
Persoonia hakeiformis	R	P2
Persoonia quinquenervis	C	
Persoonia striata	R	
Persoonia trinervis	R	
Petrophile brevifolia	R	
Petrophile circinata	R	
Petrophile divaricata	B	
Petrophile ericifolia	B	
Petrophile heterophylla	B	
Petrophile longifolia	B	
Petrophile macrostachya	K	
Petrophile media	R	
Petrophile seminuda	D.B.Foreman 1105 20.11.85	
Petrophile serruriae	B	
Petrophile striata	R	
Petrophile squamata	B	
Synaphea cuneata (ms).	K	
Synaphea petiolaris	B	

RAFFLESIACEAE

Pilostyles hamiltonii	K	

RHAMNACEAE

Cryptandra arbutiflora	K	
Cryptandra glabriflora	K	
Cryptandra pungens	B	
Cryptandra sp. D.Rose 065	B	
Cryptandra sp. D.Rose 541	R	
Cryptandra sp. 8	R	
Cryptandra sp.	K	
Spyridium tridentatum	R	
Trymalium angustifolium	K	
Trymalium ledifolium var. ledifolium	R	
Trymalium ledifolium var. rosmarinifolium	K	
Trymalium myrtillus	K	
Trymalium wichurae	R	

RUBIACEAE

*	Galium divaricatum	K	
*	Galium murale	K	
	Opercularia apiciflora	R	
	Opercularia vaginata	B	

RUTACEAE

Asterolasia pallida	B	

Asterolasia squamuligera	B
Boronia busselliana	R
Boronia capitata subsp. clavata	B
Boronia crenulata	K
Boronia cymosa	K
Boronia purdieana	R
Boronia ramosa subsp. anethifolia	R
Boronia scabra	R
Boronia sp.	K 1983
Diplolaena microcephala	K
Eriostemon spicatus	K

SANTALACEAE

Choretrum glomeratum	K
Exocarpos sparteus	K
Leptomeria lehmannii	K
Leptomeria pauciflora	R
Leptomeria spinosa	R
Santalum acuminatum	B
Santalum murrayanum	B
Santalum spicatum	B

SAPINDACEAE

Dodonaea concinna	K
Dodonaea bursariifolia	R
Dodonaea humifusa	R
Dodonaea pinifolia	R
Dodonaea viscosa subsp. spathulata	R

SCROPHULARIACEAE

*	Bellardia trixago	R
	Glossostigma drummondii	K
	Gratiola peruviana	K
	Limnosella australis	K
*	Parentucellia latifolia	K
*	Parentucellia viscosa	K
*	Veronica arvensis	K

SOLANACEAE

*	Solanum nigrum	K

STACKHOUSIACEAE

Stackhousia monogyna	B
Stackhousia scoparia	R
Tripterococcus brunonis	K

STERCULIACEAE

Lasiopetalum floribundum	K
Lasiopetalum microcardium	R
Thomasia foliosa	B
Thomasia macrocalyx	R

STYLIDIACEAE

Levenhookia dubia	K
Levenhookia leptantha	K
Levenhookia pusilla	R
Levenhookia stipitata	B
Stylidium adpressum	R
Stylidium affine	K
Stylidium amoenum	R
Stylidium breviscapum	B
Stylidium brunonianum	R
Stylidium bulbiferum	R
Stylidium calcaratum	B
Stylidium caricifolium subsp. caricifolium	R
Stylidium ciliatum	
Stylidium ecorne	R
Stylidium emarginatum subsp. emarginatum	R
Stylidium falcatum	R
Stylidium hirsutum	R
Stylidium hispidum	K
Stylidium inundatum	R
Stylidium leptophyllum	R
Stylidium lineatum	R
Stylidium petiolare	R
Stylidium piliferum	B
Stylidium pycnostachyum	R
Stylidium repens var. repens	R
Stylidium repens var. sacculatum	R
Stylidium roseo-alatum	R
Stylidium schoenoides	R
Stylidium squamellosum	R
Stylidium uniflorum	R

THYMELAEACEAE

Pimelea argentea	K
Pimelea ciliata	R
Pimelea imbricata	B
Pimelea spectabilis	R
Pimelea suaveolens	R
Pimelea sulphurea	K
Pimelea sylvestris	R
Pimelea sp. Rose 326	R

TREMANDRACEAE

Platytheca galioides	R
Tetratheca hispidissima	R
Tetratheca setigera	R
Tetratheca virgata	R

URTICACEAE

Parietaria debilis	K

VIOLACEAE

Hybanthus floribundus subsp. floribundus	R

APPENDIX 2
MUIR VEGETATION DESCRIPTIONS

Eucalyptus accedens (powder bark wandoo) Woodland

Smith 9 Low Woodland A over Dwarf Scrub D (Low Heath D)

Smith 13 Low Woodland A over *Gastrolobium microcarpum* Open Low Scrub B over Dwarf Scrub D (Low Heath D in places)

Harris 2 Low Woodland A over *Gastrolobium trilobum* Heath B

Dryandra 3 Low Forest A/Low Woodland A over *Gastrolobium microcarpum* Heath B

Eucalyptus astringens (brown mallet) Low Forest

Smith 5 Low Forest A

Penny 4 regeneration - Low Forest B/Dense Low Forest B over *Gastrolobium parviflorum* Heath B

Penny 6 Low Forest A

Candy 2 Low Woodland A

Eucalyptuss calophylla (marri) Woodland

Peters 13 Low Woodland A (Woodland) over Scrub/Thicket patchy over Dwarf Scrub D (scattered *Eucalyptus accedens)*

Smith 10 Low Woodland A (Woodland) over Scrub over Open Low Scrub A over Dwarf Scrub D

Dryandra 4 Low woodland A/Woodland over Scrub (Thicket) patchy over Low Scrub B over Dwarf Scrub D (area of *Leptospermum erubescens* Heath A)

Harris 1 Low Woodland A over Scrub over *Gastrolobium parviflorum* Low Scrub B over Dwarf Scrub D

Candy 5 Low Woodland A over Scrub over Dwarf Scrub D/Low Heath D (patchy)

Eucalyptus loxophleba (York gum) Woodland

Peters 12 Low Forest A over *Acacia acuminata* Open Low Woodland B/Low Woodland B in places.

Skelton 2 Low Woodland A over *Acacia acuminata* Low Forest B

Smith 14 Low Forest A (Low Woodland A) over *Acacia acuminata* Low Forest B/Low Woodland B patchy

Penny 7 Low Woodland A (scattered *Eucalyptus wandoo)* over Open Low Scrub A over Open Dwarf Scrub D (area of *Loxocarya* Open Low Sedges)

Lateritic Plateau Woodlands

1. Tall Kwongan understorey

Skelton 10 Open Low Woodland A [Ea(m)] over Thicket (3m) patchy over Dwarf Scrub D

Dryandra 1 Open Low Woodland A [Eac] over Thicket over Dwarf Scrub C

Dryandra 2 Low Woodland A [Em(a)] over Scrub/Thicket over Dwarf Scrub C

Penny 5 Low Woodland A/Open Low Woodland A (patchy) [Ea] over Heath A to Dense Heath A in places.

2. *Dryandra squarrosa* understorey

Peters 3 Open Low Woodland A [Eamw] over Thicket (Scrub) over Open Dwarf Scrub C

Skelton 8 Low Woodland A [Em(ac)] over Low Scrub B over Dwarf Scrub D

Skelton 9 Low Woodland A [Em(a)] over Open Scrub/Scrub over Low Scrub B over Dwarf Scrub C

A25 1 Low Woodland A [Ea(aw)] over Heath A over Dwarf Scrub D in places.

3. *Dryandra sessilis* understorey

Skelton 6 Low Woodland A [Ec(aw)] over Scrub over Low Heath C

Miles 4 Low Woodland A [Eacw] over Scrub over Dwarf Scrub D/Open Low Sedges

4. Low Heath understorey

Peters 2 Open Low Woodland A [Ecm] over Heath C over Open Dwarf Scrub D

Peters 7 Woodland [Eam] over Open Low Scrub A (small areas of Heath A) over Low Heath C over Dwarf Scrub D (patchy)

Skelton 1 Open Low Woodland A [Eacw] over Low Heath C over Dwarf Scrub D in places (scattered shrub mallee)

Skelton 11 Open Low Woodland A [Ecw] over Open Low Scrub A over Low Heath C/Low Heath D (patch Shrub Mallee)

Smith 6 Open Low Woodland A over Open Scrub/Scrub patchy over Heath B over Dwarf Scrub C over Dwarf Scrub D in places

***Eucalyptus wandoo* (white gum, wandoo) Woodland**

Peters 5 Low Woodland A (Low Forest A) over Open Dwarf Scrub C over Open Dwarf Scrub D/Open Low Sedges (scattered *Acacia acuminata* and *Eucalyptus calophylla)*

Peters 9 Low Woodland A over *Gastrolobium microcarpum* Dwarf Scrub C to Low Scrub B over Dwarf Scrub D/Open Low Sedges (scattered *Acacia acuminata* and *Allocasuarina huegeliana)*

Peter 10 Low Forest A

Miles 1 Low Woodland A over Open Low Scrub A over Low Heath D

Miles 2 Low Woodland A over *Gastrolobium microcarpum* Heath A over Open Dwarf Scrub C

Smith 1 Low Woodland A (Open Low Woodland A) to Woodland over *Acacia acuminata* Open Low Woodland B over Open Low Sedges (*Borya* Herbs in places)

Smith 11 Low Woodland A over *Acacia acuminata* Low Woodland B

Candy 1 Woodland over *Gastrolobium calycinus* Open Low Scrub C over Low Heath D (scattered *Allocasuarina huegeliana*)

Candy 3 Low Woodland A over *Acacia acuminata* Open Low Woodland B over Open Dwarf Scrub D/Open Low Sedges in places

Harris 5 Low Woodland A over *Gastrolobium parviflorum* Low Scrub A (patchy) over Dwarf Scrub D in places

***Eucalyptus wandoo* (white gum)/*Allocasuarina huegeliana* (rock sheoak) Low Forest**

Skelton 4 Low Forest A (*Eucalyptus wandoo* to 14 metres, *Allocasuarina huegeliana* to 6 metres) over *Gastrolobium microcarpum* Heath B in places (scattered *Acacia acuminata* and *Eucalyptus calophylla)*

Candy 4 Low Woodland A *(Eucalyptus wandoo)* over Low Forest A/Low Forest B *(Allocasuarina huegeliana)* (scattered *Acacia acuminata)*

***Allocasuarina huegeliana* (rock sheoak) Low Forest**

Peters 4 Low Forest A (Dense Low Forest A at edge)
Next to granite rock - *Lepidosperma ?longitudinale*

Skelton 3 Low Forest A *(Allocasuarina huegeliana* and *Acacia acuminata)* (scattered *Eucalyptus loxophleba)*

Smith 2 Low Forest A (Dense Low Forest A in places) (scattered *Eucalyptus wandoo)*

Bald Rock 1 Low Forest A
edge next to granite rock - *Lepidosperma* Tall Sedges
(scattered *Eucalyptus calophylla, Eucalyptus wandoo)*

Turner 1 Low Forest A over Open Low Scrub B (patch of *Lepidosperma* Tall Sedges) (scattered *Eucalyptus wandoo)*

Acacia acuminata (jam) Low Forest

Miles 3	Low Forest A (scattered *Allocasuarina huegeliana, Eucalyptus wandoo)* over Very Open Low Sedges
Smith 4	Low Forest A (scattered *Allocasuarina huegeliana, Eucalyptus wandoo,* mixed shrub species)
Smith 12	Low Forest B (scattered *Eucalyptus wandoo)* (patch of *Loxocarya* Open Low Sedges)
Smith 15	Low Forest B (scattered *Eucalyptus wandoo, Allocasuarina huegeliana)*
Bullock 1	Low Forest A over *Loxocarya* Open Low Sedges in places

Short Kwongan

Peters 8	Low Heath C occasionally to Low Heath D (Shrub Mallee scattered overall)
Skelton 5	Very Open Shrub Mallee over Open Low Scrub A over Low Heath C (patchy)
Smith 3	Very Open Shrub Mallee (patchy) over Open Low Scrub A over Low Heath C
Smith 8	Heath B over Dwarf Scrub C
Lol Gray 1	Open Low Scrub B over Low Heath C over Dwarf Scrub D
Penny 1	Very Open Shrub Mallee over Heath B over Dwarf Scrub D
Penny 2	Open Shrub Mallee over Heath C over Dwarf Scrub D (scattered *Eucalyptus wandoo)*
Harris 4	Open Shrub Mallee over Low Heath C/Low Heath D
Bald Rock 2	Very Open Shrub Mallee over Heath B over Open Dwarf Scrub D to Dwarf Scrub D in places
Candy 6	Open Shrub Mallee over Low Heath C over Open Dwarf Scrub D

Tall Kwongan

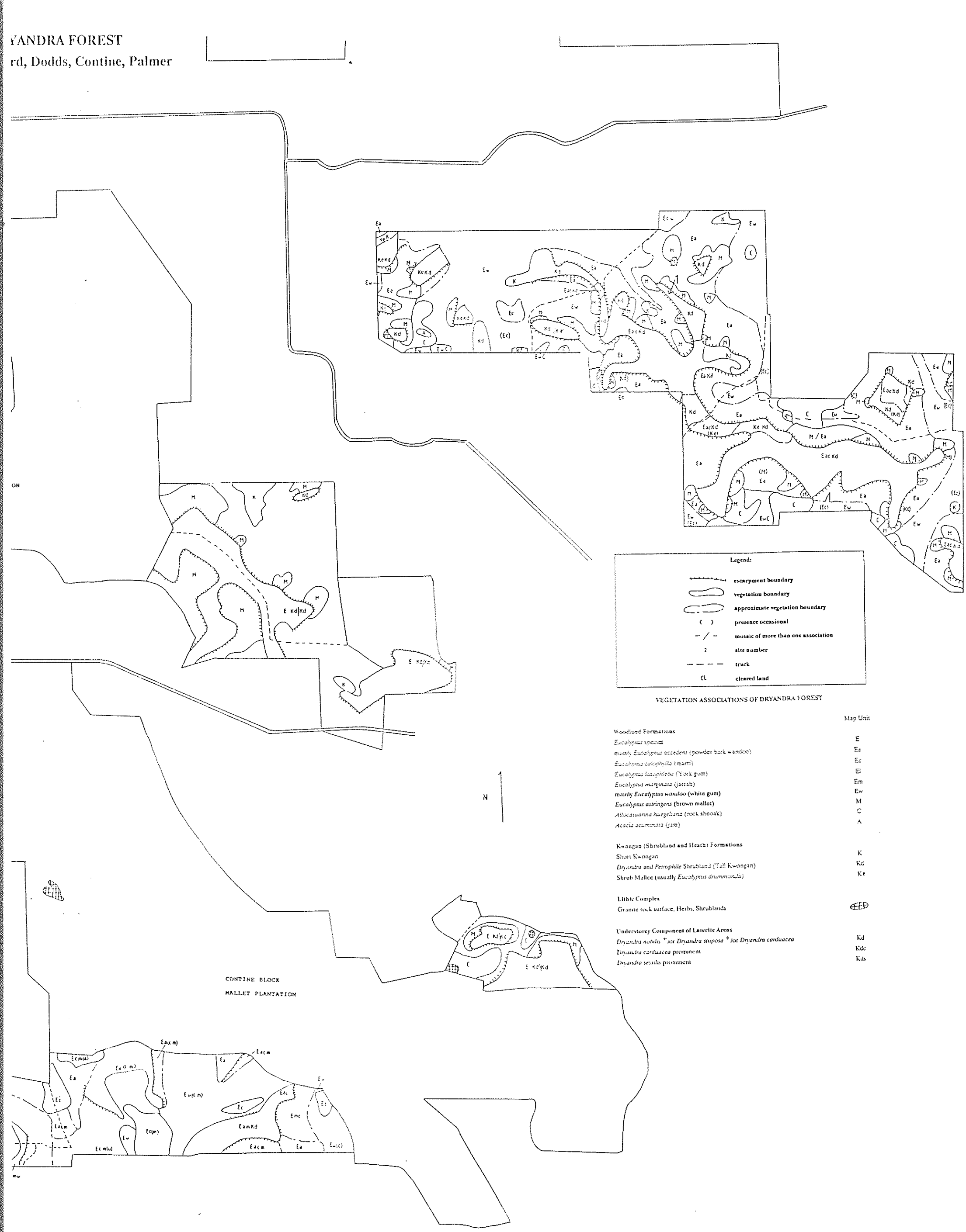
Peters 6	Very Open Shrub Mallee over Heath A over Dwarf Scrub C/Dwarf Scrub D (scattered *Eucalyptus accedens* and *Eucalyptus calophylla)*
Peters 11	Thicket (Scrub in places) over Low Heath C over Open Dwarf Scrub D
Skelton 7	Heath A over Open Dwarf Scrub C
Smith 7	Thicket over Dwarf Scrub C in places (scattered shrub mallee)
Penny 3	Heath A occasionally to Dense Heath A over Open Dwarf Scrub D in places
Harris 3	Thicket (edge) to Heath A over Open Dwarf Scrub C (scattered shrub mallee in patches)
Palmer 1	Heath A over Open Dwarf Scrub C

VEGETATION OF

Blocks - Stokes, Br

YANDRA FOREST

rd, Dodds, Contine, Palmer



Legend:

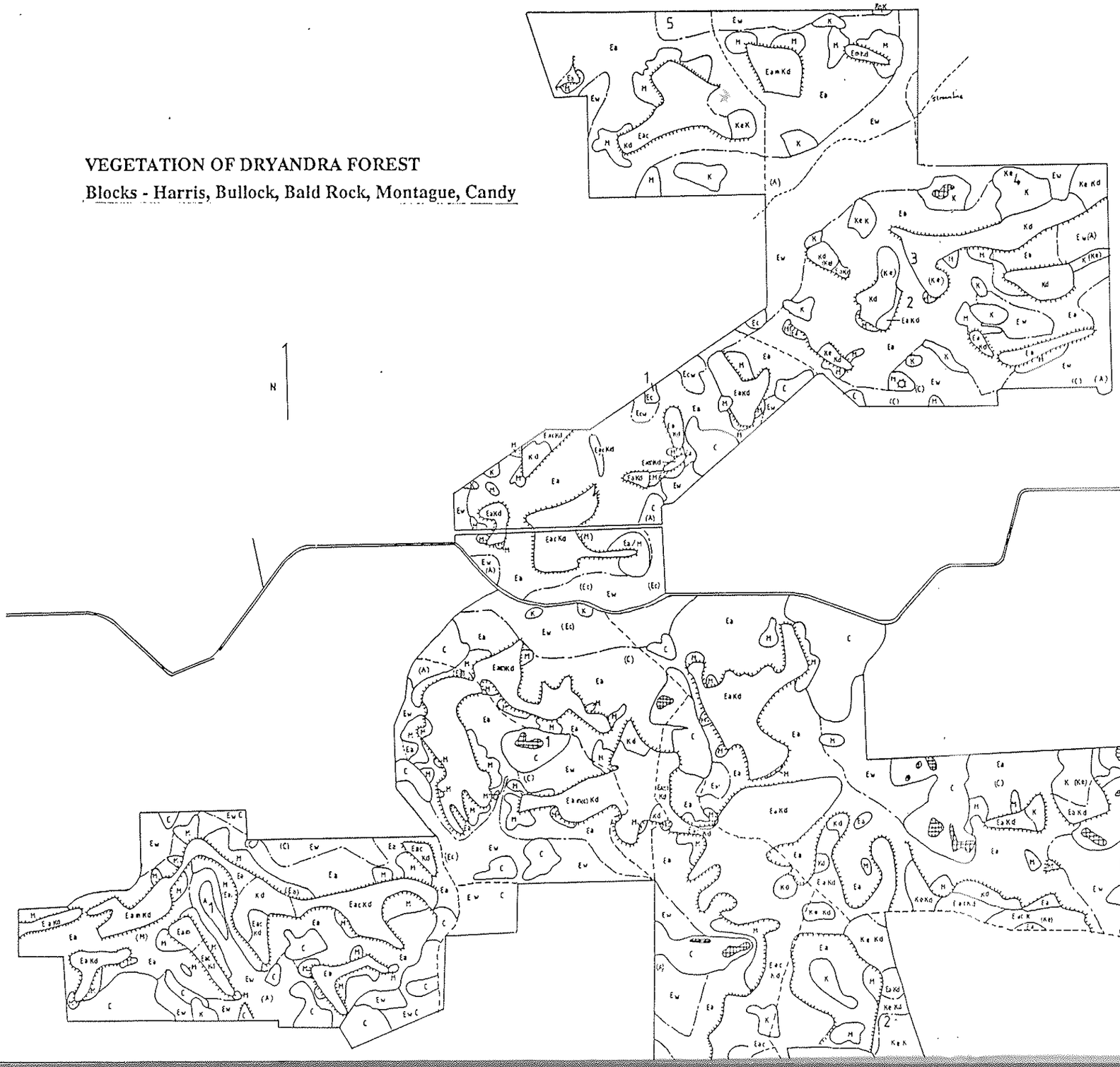
- escarpment boundary
- vegetation boundary
- approximate vegetation boundary
- ( ) presence occasional
- — / — mosaic of more than one association
- 2 site number
- — — — track
- CL cleared land

VEGETATION ASSOCIATIONS OF DRYANDRA FOREST

	Map Unit
Woodland Formations	
Eucalyptus species	E
mainly *Eucalyptus accedens* (powder bark wandoo)	Ea
Eucalyptus calophylla (marri)	Ec
Eucalyptus laeliphloia (York gum)	El
Eucalyptus marginata (jarrah)	Em
mainly *Eucalyptus wandoo* (white gum)	Ew
Eucalyptus astringens (brown mallet)	M
Allocasuarina huegeliana (rock sheoak)	C
Acacia acuminata (jam)	A
Kwongan (Shrubland and Heath) Formations	
Short Kwongan	K
Dryandra and *Petrophile* Shrubland (Tall Kwongan)	Kd
Shrub Mallee (usually *Eucalyptus drummondii*)	Ke
Lithic Complex	
Granite rock surface, Herbs, Shrublands	
Understorey Component of Laterite Areas	
Dryandra nobilis + *or Dryandra stuposa* + *or Dryandra carduacea*	Kd
Dryandra carduacea prominent	Kdc
Dryandra sessilis prominent	Kds

VEGETATION OF DRYANDRA FOREST

Blocks - Harris, Bullock, Bald Rock, Montague, Candy

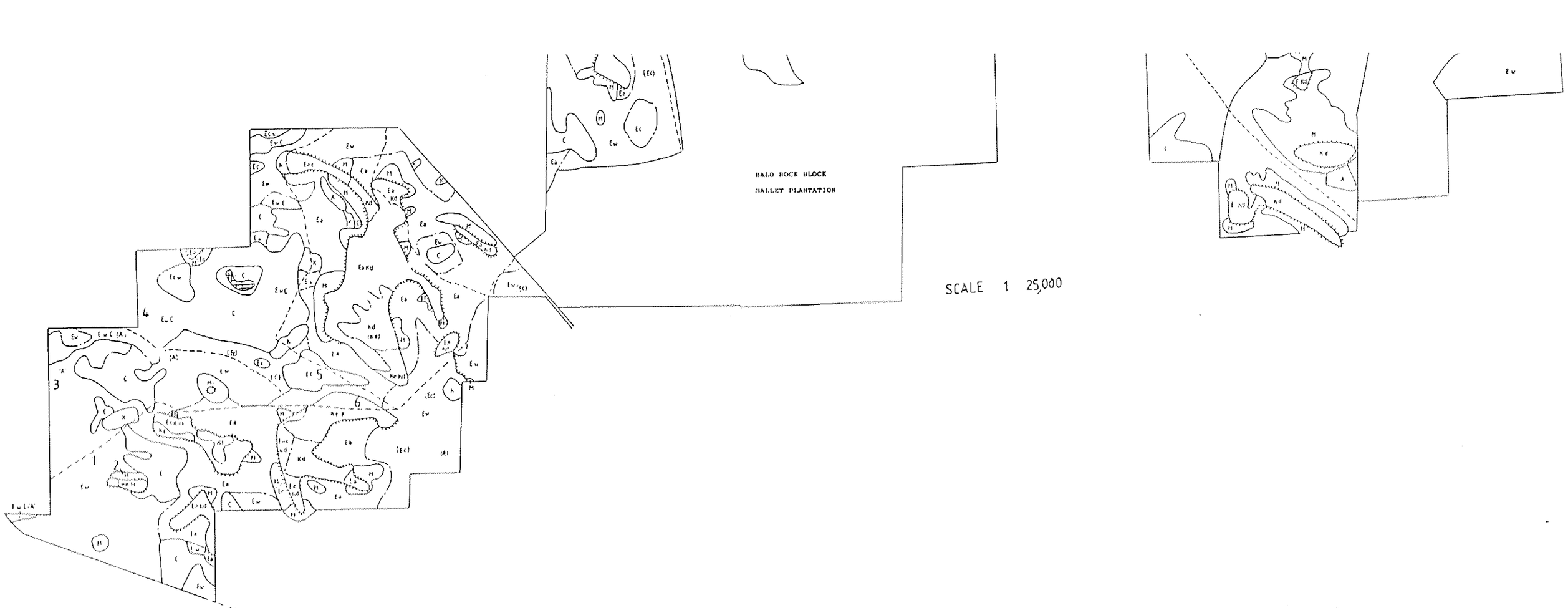


Legend:

- escarpment boundary
- vegetation boundary
- approximate vegetation boundary
- ( ) presence occasional
- – / – mosaic of more than one association
- 2 site number
- — — — — track
- CL cleared land

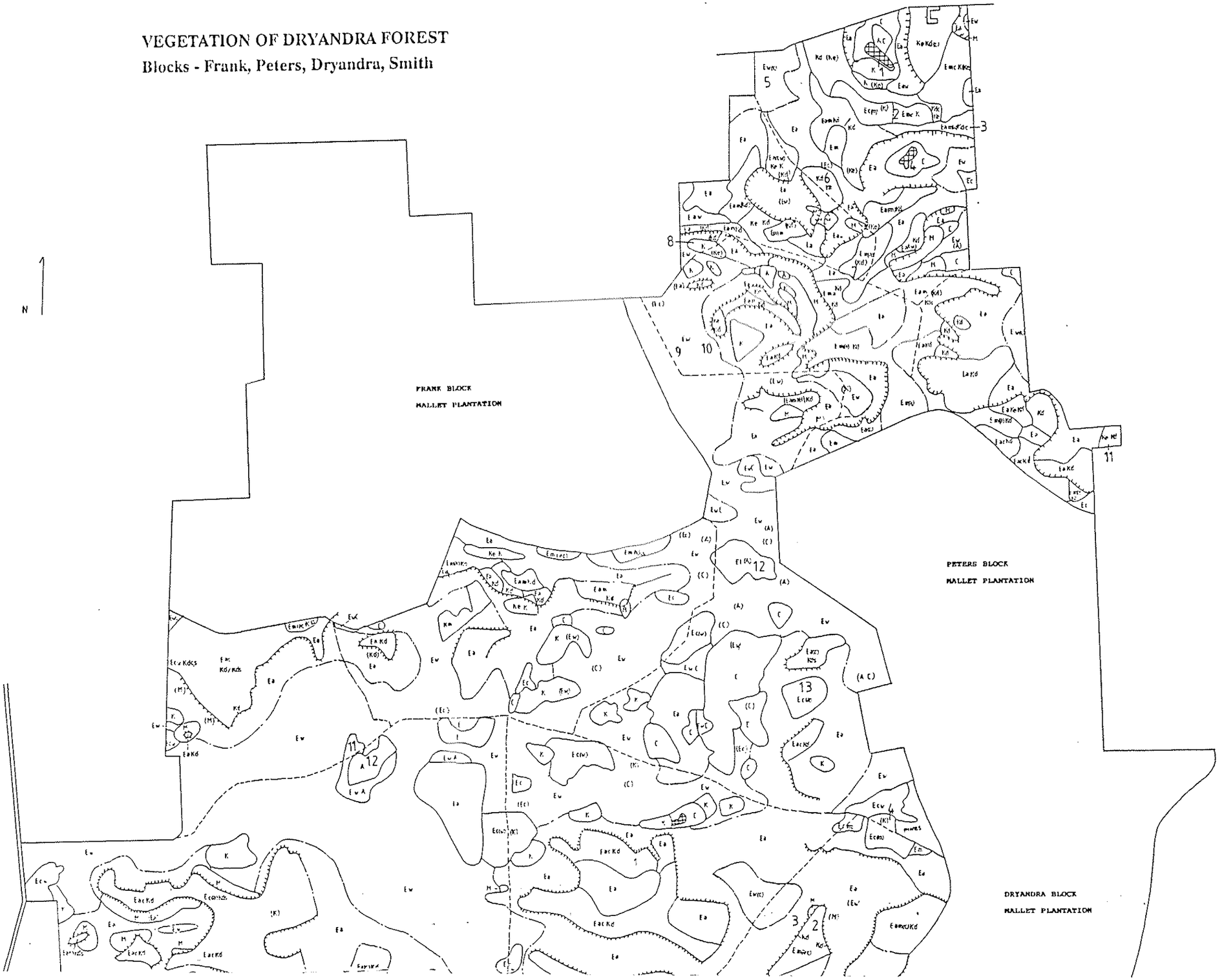
VEGETATION ASSOCIATIONS OF DRYANDRA FOREST

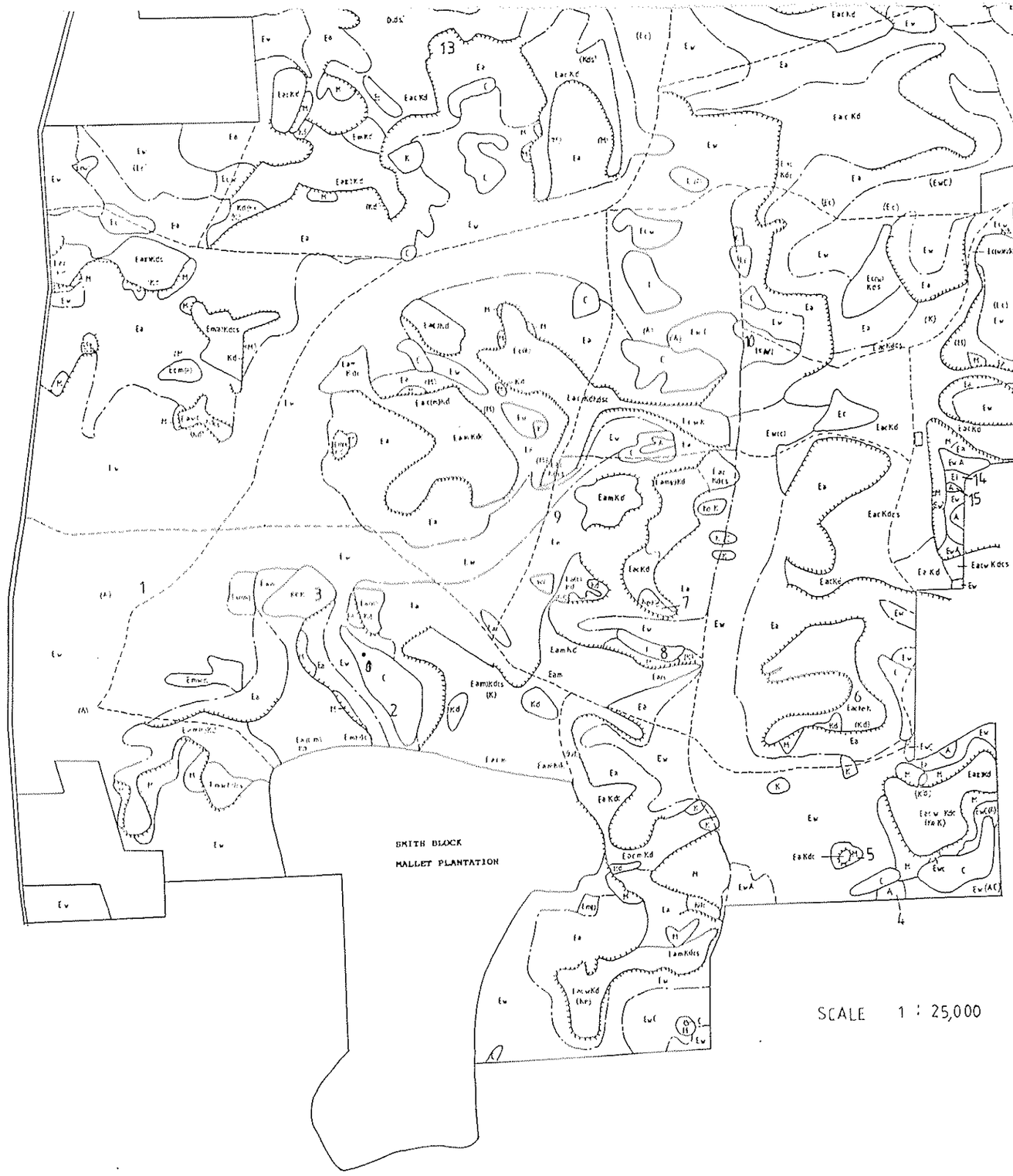
	Map Unit
Woodland Formations	
Eucalyptus species	E
mainly *Eucalyptus accedens* (powder bark wandoo)	Ea
Eucalyptus calophylla (marri)	Ec
Eucalyptus lissophleba (York gum)	El
Eucalyptus marginata (jarrah)	Em
mainly *Eucalyptus wandoo* (white gum)	Ew
Eucalyptus astringens (brown mallet)	M
Allocasuarina huegeliana (rock sheoak)	C
Acacia acuminata (jam)	A
Kwongan (Shrubland and Heath) Formations	
Short Kwongan	K
Dryandra and *Petrophile* Shrubland (Tall Kwongan)	Kd
Shrub Mallee (usually *Eucalyptus drummondii*)	Ke
Lithic Complex	
Granite rock surface, Herbs, Shrublands	
Understorey Component of Laterite Areas	
Dryandra nobilis + *Dryandra nervosa* + *Dryandra carduacea*	Kd
Dryandra carduacea prominent	Kdc
Dryandra sessilis prominent	Kds


BALD ROCK BLOCK
BALLET PLANTATION
SCALE 1 25,000

VEGETATION OF DRYANDRA FOREST

Blocks - Frank, Peters, Dryandra, Smith





Legend:

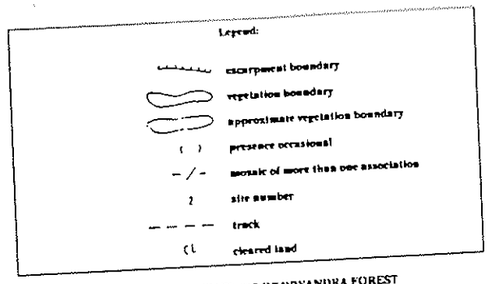
- escarpment boundary
- vegetation boundary
- approximate vegetation boundary
- ( ) presence occasional
- — / — mosaic of more than one association
- 2 site number
- track
- CL cleared land

VEGETATION ASSOCIATIONS OF DRYANDRA FOREST

	Map Unit
Woodland Formations	
Eucalyptus species	E
mainly *Eucalyptus accedens* (powder bark wandoo)	Ea
Eucalyptus calophylla (marri)	Ec
Eucalyptus loxophleba (York gum)	El
Eucalyptus marginata (jarrah)	Em
mainly *Eucalyptus wandoo* (white gum)	Ew
Eucalyptus astringens (brown mallet)	M
Allocasuarina huegeliana (rock sheoak)	C
Acacia acuminata (jam)	A
Kwongan (Shrubland and Heath) Formations	
Short Kwongan	K
Dryandra and *Petrophile* Shrubland (Tall Kwongan)	Kd
Shrub Mallee (usually *Eucalyptus drummondii*)	Ke
Lithic Complex	(L)
Granite rock surface. Herbs, Shrublands	
Understorey Component of Laterite Areas	
Dryandra nobilis + *lot Dryandra stuposa* + *lot Dryandra cordiacea*	Kd
Dryandra cordiacea prominent	Kdc
Dryandra sessilis prominent	Kds

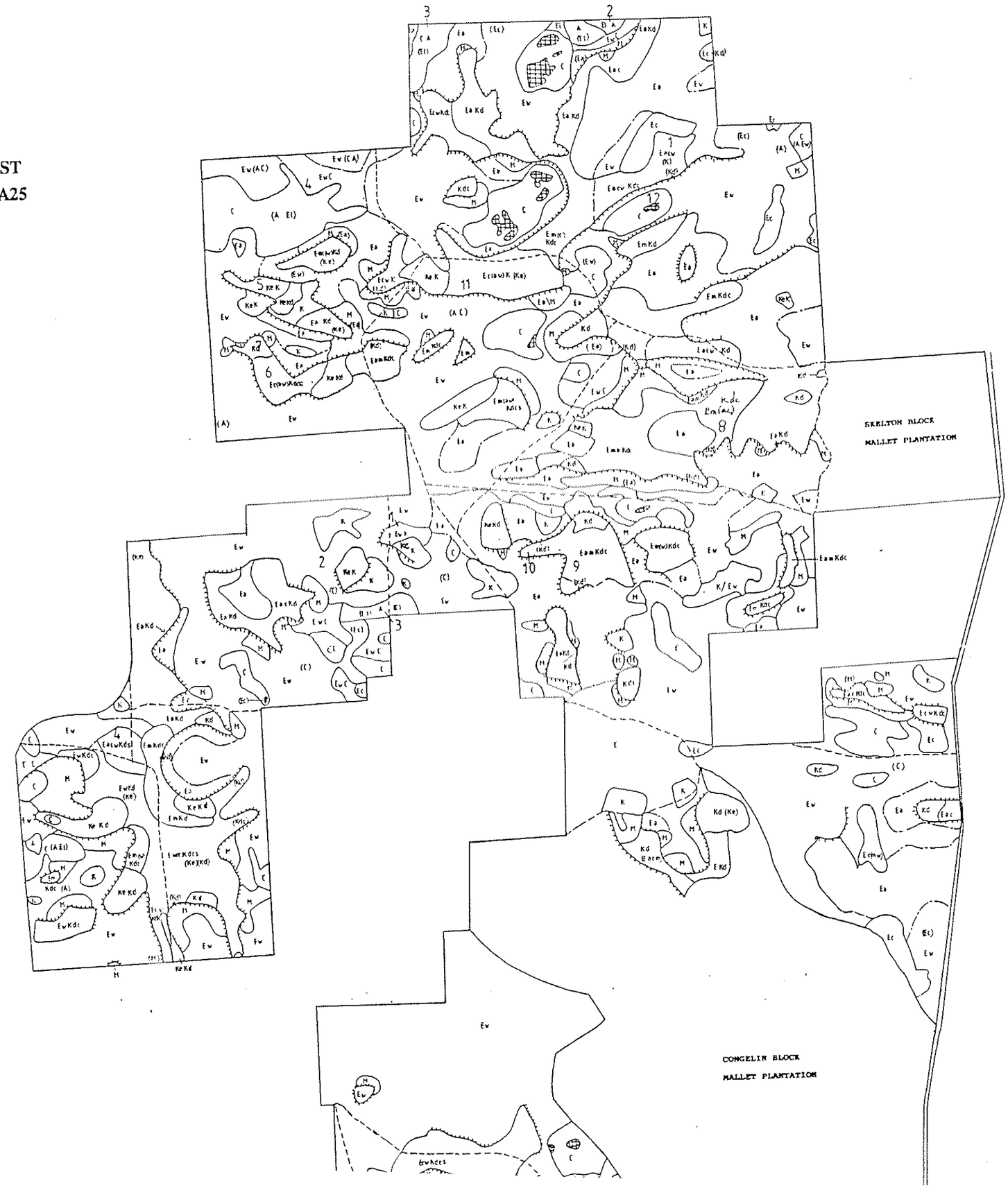
VEGETATION OF DRYANDRA FOREST

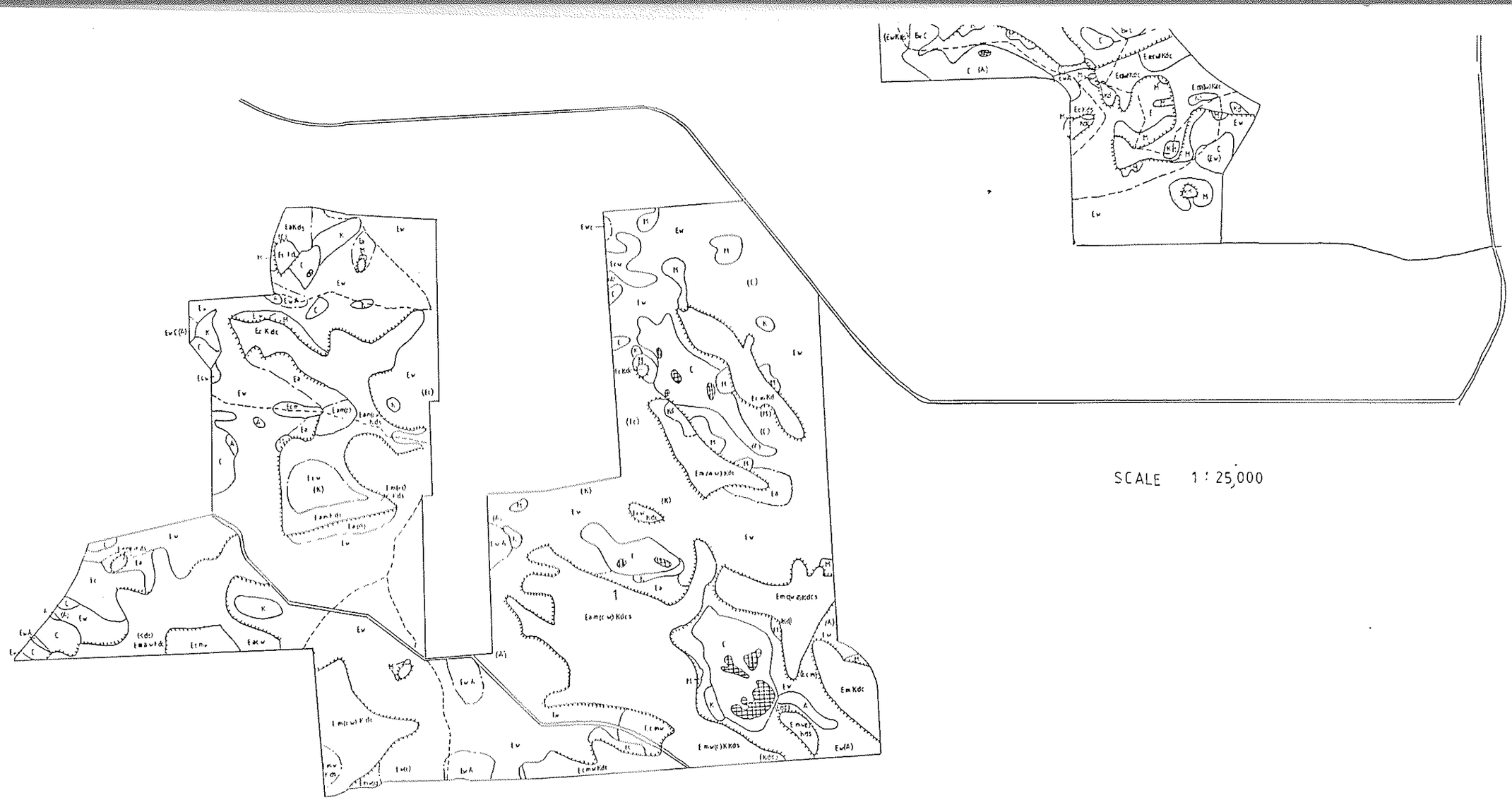
Blocks - Skelton, Miles, Congelin, A24, A25



VEGETATION ASSOCIATIONS OF DRYANDRA FOREST

	Map Unit
Woodland Formations	E
Eucalyptus species	Ea
mainly *Eucalyptus accedens* (powdel bark wandoo)	Ec
Eucalyptus eriophylla (marri)	El
Eucalyptus lucophleba (York gum)	Em
Eucalyptus marginata (jarrah)	Ew
mainly *Eucalyptus wandoo* (white gum)	M
Eucalyptus astringens (brown mallet)	C
Allocasuarina huegeliana (rock sheoak)	A
Acacia acuminata (jam)	
Kwongan (Shrubland and Heath) Formations	K
Short Kwongan	Kd
Dryandra and *Petrophile* Shrubland (Tall Kwongan)	Ke
Shrub Mallee (usually *Eucalyptus drummondii*)	
Lithic Complex	
Granite rock surface, Herbs, Shrublands	
Understorey Component of Laterite Areas	Kd
Dryandra nobilis + *Dryandra sessilis* + *Dryandra carduacea*	Kdc
Dryandra carduacea prominent	Kds
Dryandra sessilis prominent	

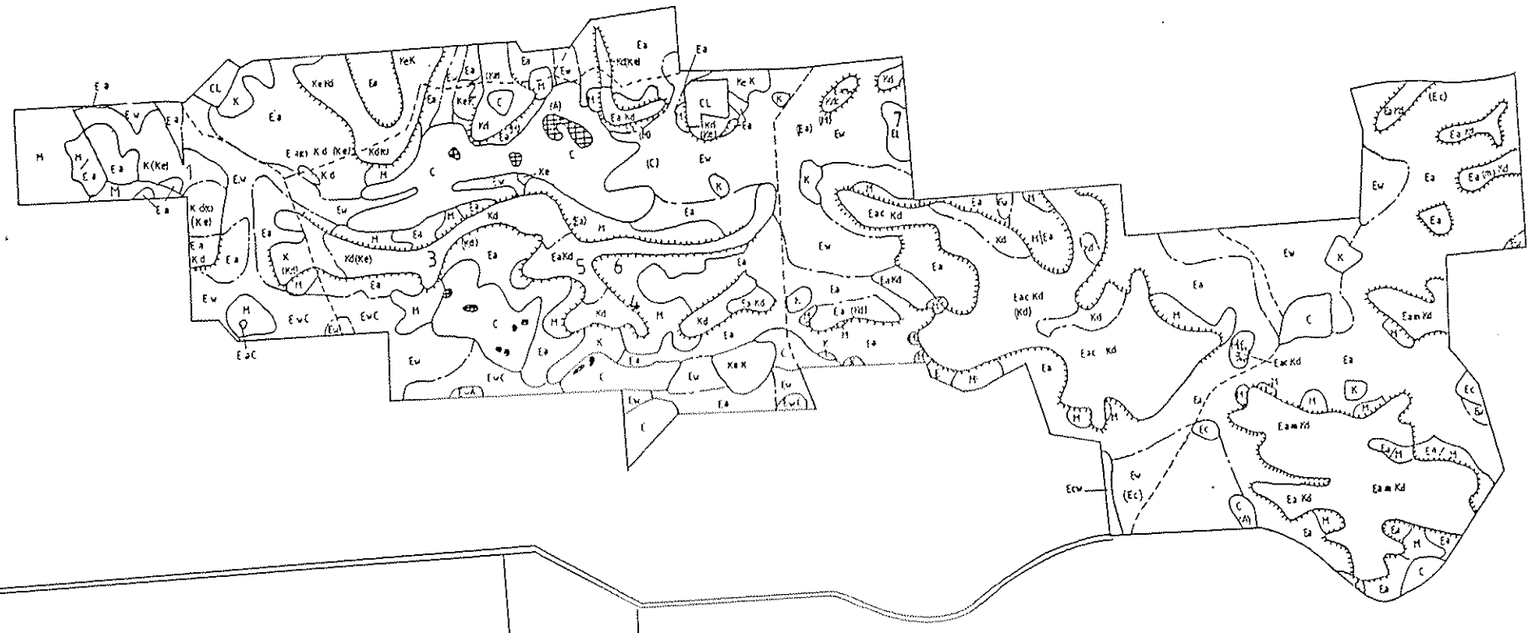


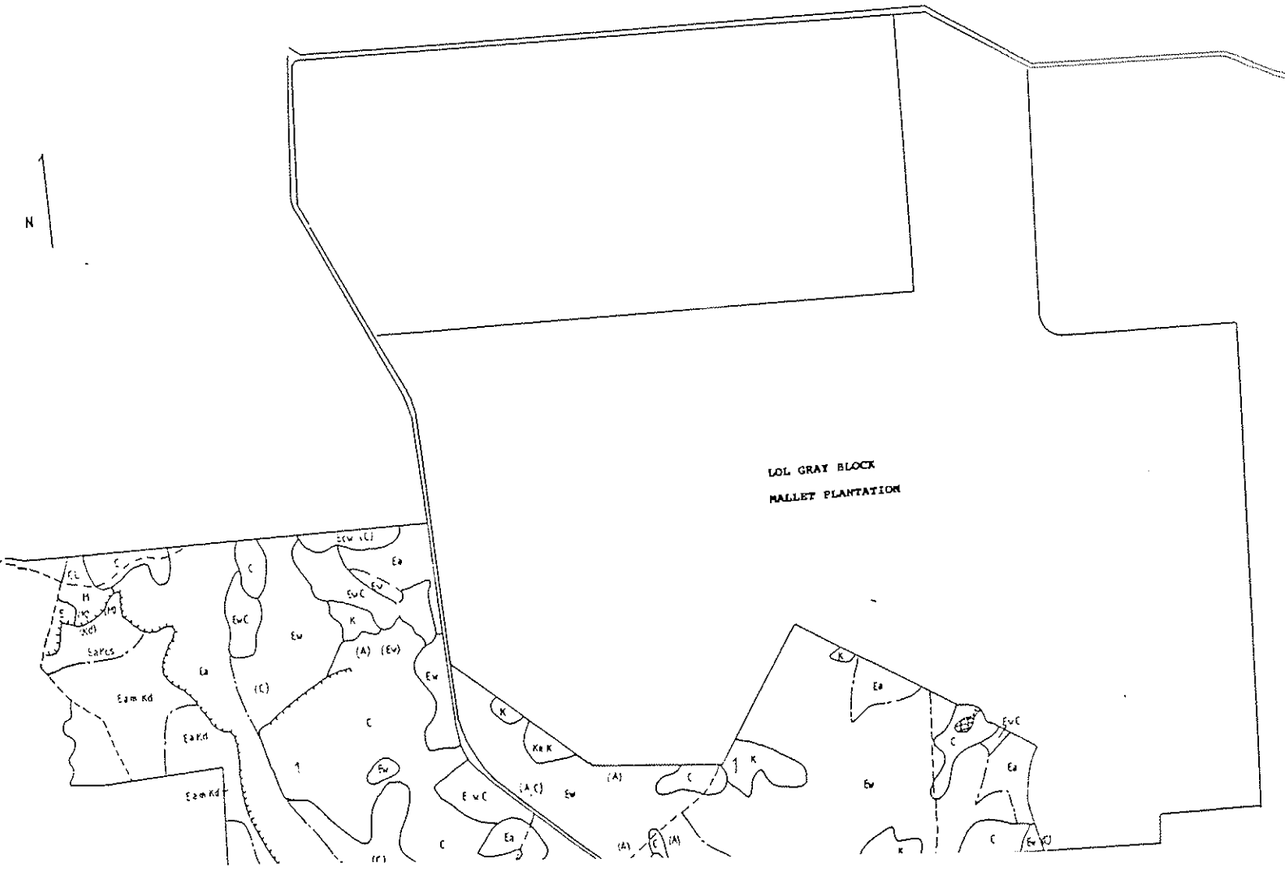


SCALE 1 : 25,000

VEGETATION OF DRYANDRA FOREST

Blocks - Turner, Lol Gray, South, Penny





Legend

- escarpment boundary
- vegetation boundary
- approximate vegetation boundary
- ( ) presence occasional
- - / - mosaic of more than one association
- 2 site number
- track
- CL cleared land

VEGETATION ASSOCIATIONS OF DRYANDRA FOREST

	Map Unit
Woodland Formations	E
Eucalyptus species	Ea
mainly *Eucalyptus accedens* (powder bark wandoo)	Ec
Eucalyptus calophylla (marri)	El
Eucalyptus loxophleba (York gum)	Em
Eucalyptus marginata (jarrah)	Ew
mainly *Eucalyptus wandoo* (white gum)	M
Eucalyptus astringens (brown mallet)	C
Allocasuarina huegeliana (rock sheoak)	A
Acacia acuminata (jam)	

Kwongan (Shrubland and Heath) [illegible] K

Short Kwongan Kd

Dryandra and *Petrophile* Shrubland (Tall Kwongan) Ke

Shrub Mallee (usually *Eucalyptus drummondii*)

Lithic Complex

Granite rock surface. Herbs, Shrublands

Understorey Component of Laterite Areas Kd

Dryandra nobilis + *Dryandra stuposa* + *Dryandra carduacea* Kdc

Dryandra carduacea prominent Kda

Dryandra sessilis prominent

SCALE 1 : 25,000

TURNER BLOCK

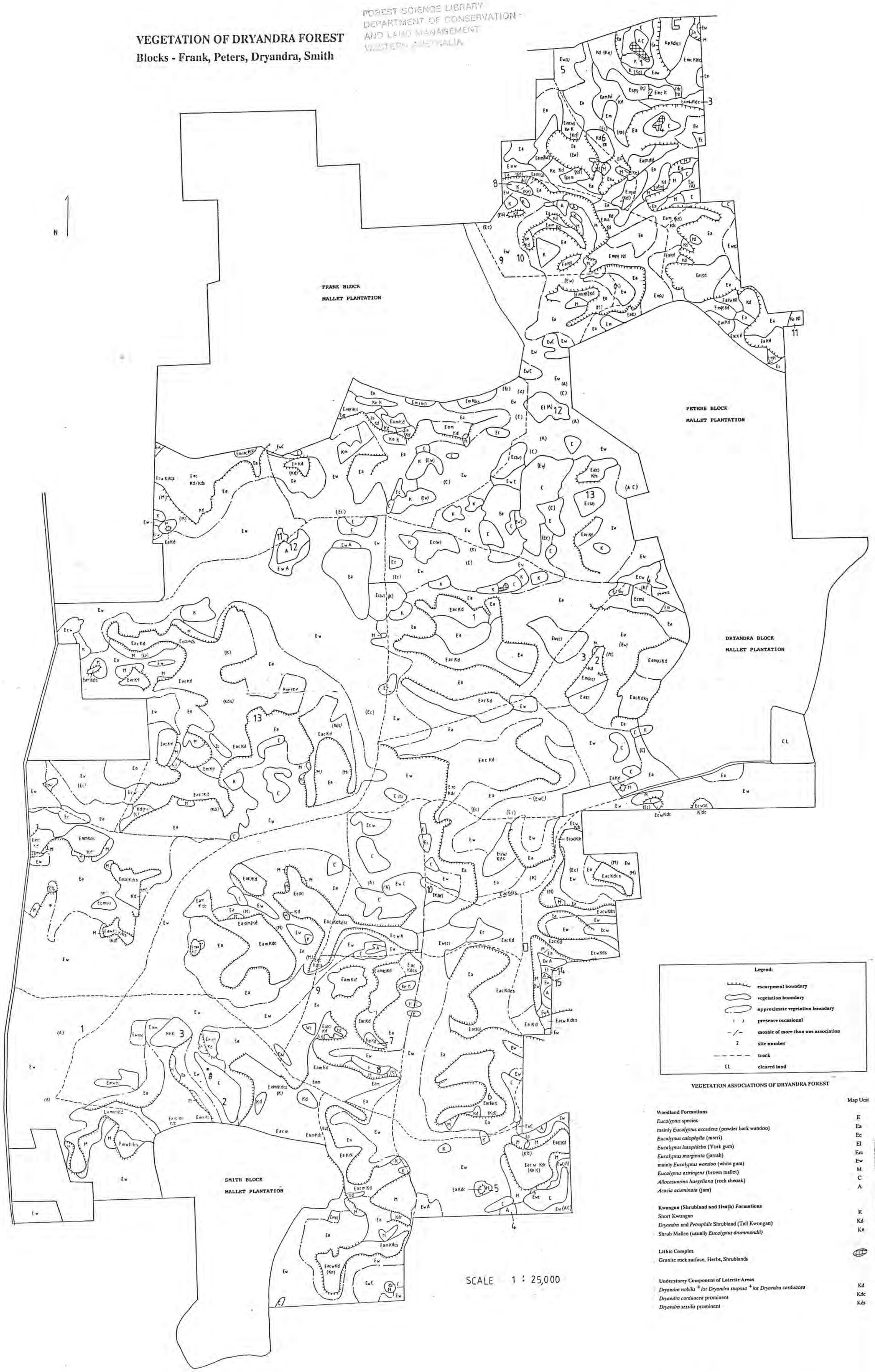
MALLET PLANTATION

SOUTH BLOCK

MALLET PLANTATION

VEGETATION OF DRYANDRA FOREST

Blocks - Frank, Peters, Dryandra, Smith



Legend:

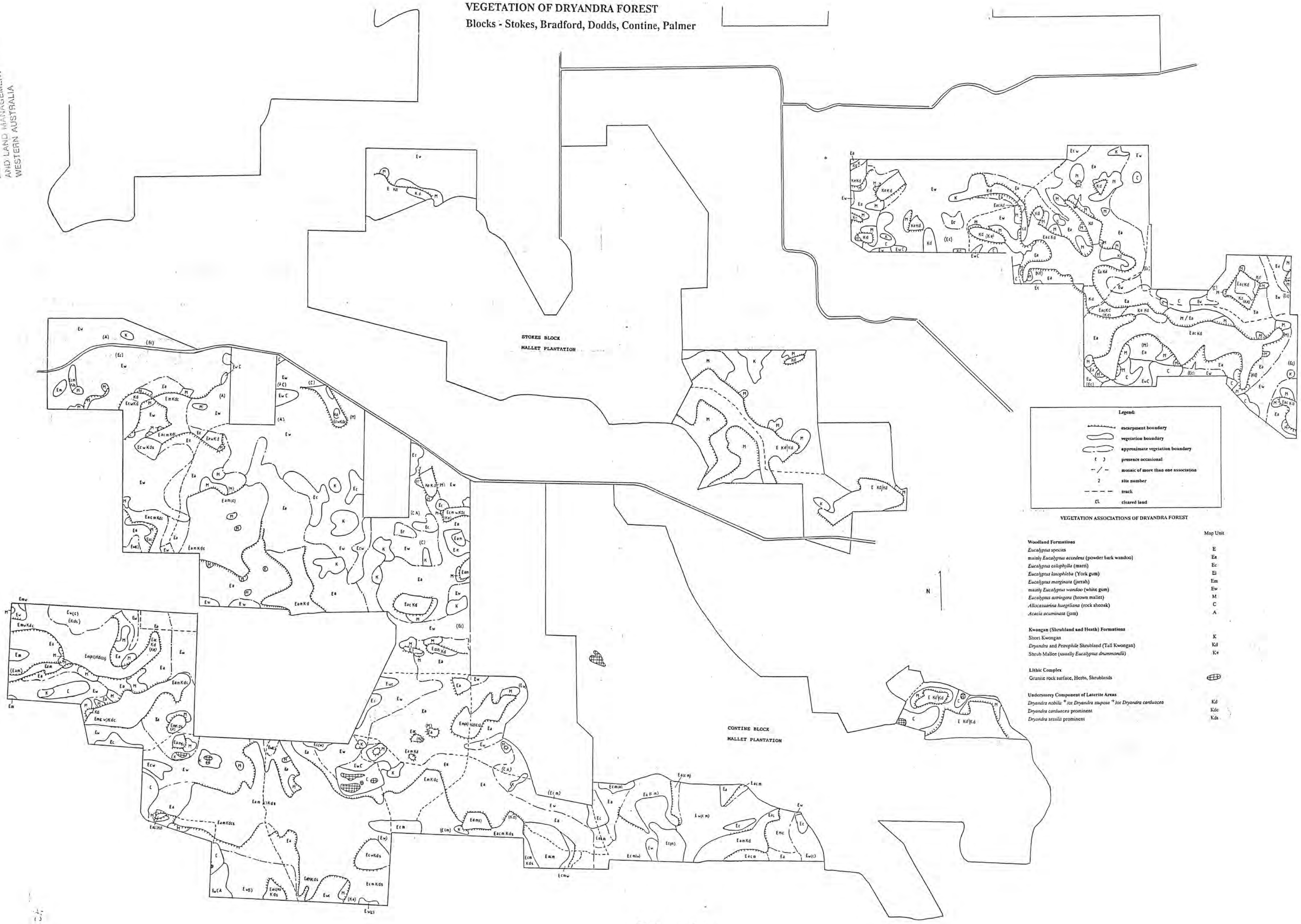
- escarpment boundary
- vegetation boundary
- approximate vegetation boundary
- presence occasional
- mosaic of more than one association
- 2 site number
- track
- CL cleared land

VEGETATION ASSOCIATIONS OF DRYANDRA FOREST

	Map Unit
Woodland Formations	
Eucalyptus species	E
mainly *Eucalyptus accedens* (powder bark wandoo)	Ea
Eucalyptus calophylla (marri)	Ec
Eucalyptus laeophleba (York gum)	El
Eucalyptus marginata (jarrah)	Em
mainly *Eucalyptus wandoo* (white gum)	Ew
Eucalyptus astringens (brown mallet)	M
Allocasuarina huegeliana (rock sheoak)	C
Acacia acuminata (jam)	A
Kwongan (Shrubland and Heath) Formations	
Short Kwongan	K
Dryandra and *Petrophile* Shrubland (Tall Kwongan)	Kd
Shrub Mallee (usually *Eucalyptus drummondii*)	Ke
Lithic Complex	
Granite rock surface, Herbs, Shrublands	
Understorey Component of Laterite Areas	
Dryandra nobilis + *lot Dryandra stuposa* + *lot Dryandra carduacea*	Kd
Dryandra carduacea prominent	Kdc
Dryandra sessilis prominent	Kds

VEGETATION OF DRYANDRA FOREST

Blocks - Stokes, Bradford, Dodds, Contine, Palmer



Legend:

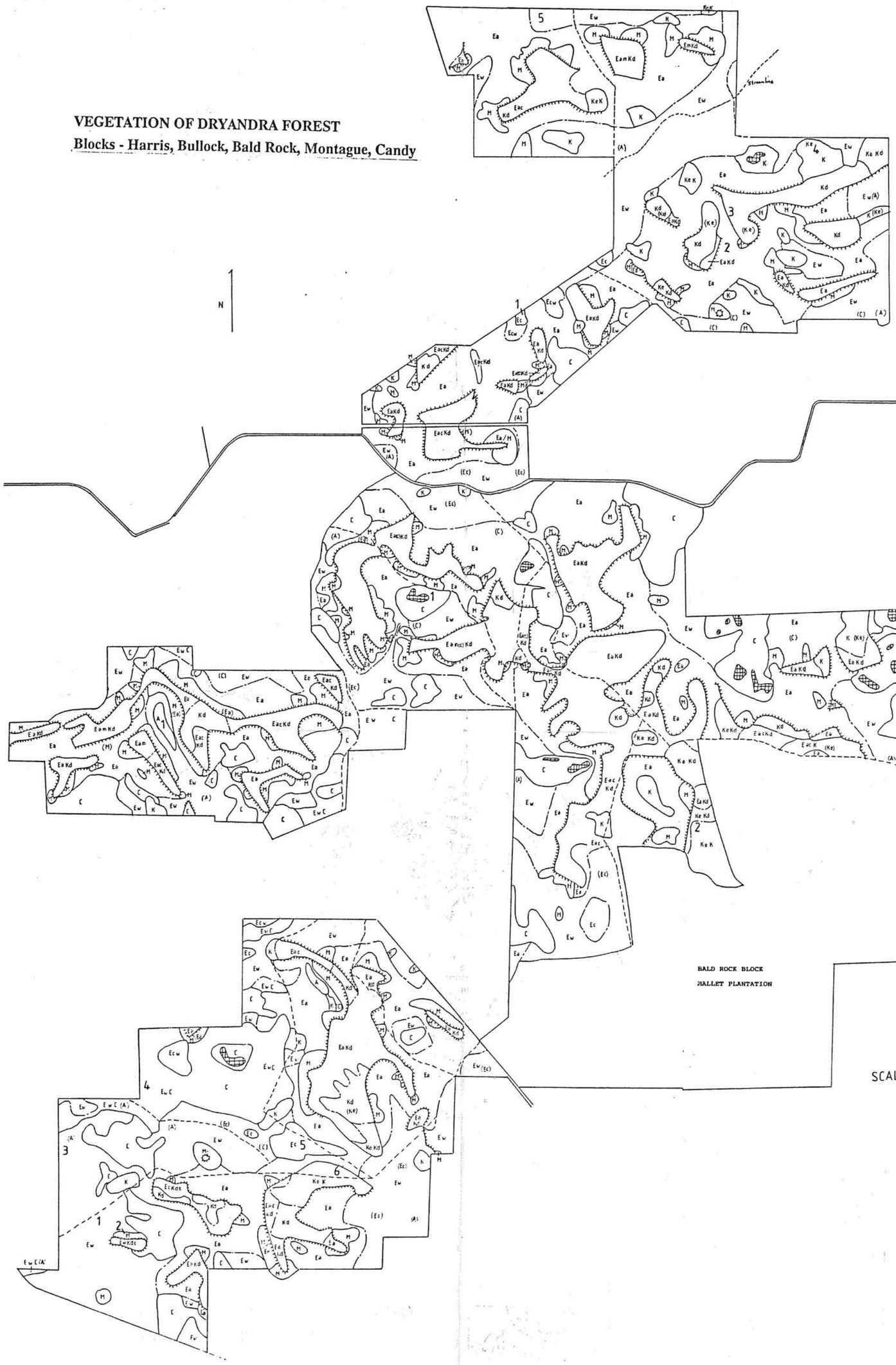
- escarpment boundary
- vegetation boundary
- approximate vegetation boundary
- ( ) presence occasional
- –/– mosaic of more than one association
- 2 site number
- track
- cl. cleared land

VEGETATION ASSOCIATIONS OF DRYANDRA FOREST

	Map Unit
Woodland Formations	
Eucalyptus species	E
mainly *Eucalyptus accedens* (powder bark wandoo)	Ea
Eucalyptus calophylla (marri)	Ec
Eucalyptus laeophleba (York gum)	El
Eucalyptus marginata (jarrah)	Em
mainly *Eucalyptus wandoo* (white gum)	Ew
Eucalyptus astringens (brown mallet)	M
Allocasuarina huegeliana (rock sheoak)	C
Acacia acuminata (jam)	A
Kwongan (Shrubland and Heath) Formations	
Short Kwongan	K
Dryandra and *Petrophile* Shrubland (Tall Kwongan)	Kd
Shrub Mallee (usually *Eucalyptus drummondii*)	Ke
Lithic Complex	
Granite rock surface, Herbs, Shrublands	⊕
Understorey Component of Laterite Areas	
Dryandra nobilis + *or Dryandra stuposa* + *or Dryandra carduacea*	Kd
Dryandra carduacea prominent	Kdc
Dryandra sessilis prominent	Kds

VEGETATION OF DRYANDRA FOREST

Blocks - Harris, Bullock, Bald Rock, Montague, Candy



Legend:

- escarpment boundary
- vegetation boundary
- approximate vegetation boundary
- ( ) presence occasional
- – / – mosaic of more than one association
- 2 site number
- track
- CL cleared land

VEGETATION ASSOCIATIONS OF DRYANDRA FOREST

	Map Unit
Woodland Formations	
Eucalyptus species	E
mainly *Eucalyptus accedens* (powder bark wandoo)	Ea
Eucalyptus calophylla (marri)	Ec
Eucalyptus laxophleba (York gum)	El
Eucalyptus marginata (jarrah)	Em
mainly *Eucalyptus wandoo* (white gum)	Ew
Eucalyptus astringens (brown mallet)	M
Allocasuarina huegeliana (rock sheoak)	C
Acacia acuminata (jam)	A
Kwongan (Shrubland and Heath) Formations	
Short Kwongan	K
Dryandra and *Petrophile* Shrubland (Tall Kwongan)	Kd
Shrub Mallee (usually *Eucalyptus drummondii*)	Ke
Lithic Complex	
Granite rock surface, Herbs, Shrublands	⊕
Understorey Component of Laterite Areas	
Dryandra nobilis + /or *Dryandra stuposa* + /or *Dryandra carduacea*	Kd
Dryandra carduacea prominent	Kdc
Dryandra sessilis prominent	Kds

VEGETATION OF DRYANDRA FOREST

Blocks - Skelton, Miles, Congelin, A24, A25

N

SKELTON BLOCK
MALLET PLANTATION

CONGELIN BLOCK
MALLET PLANTATION

Legend:

- escarpment boundary
- vegetation boundary
- approximate vegetation boundary
- ( ) presence occasional
- -/- mosaic of more than one association
- 2 site number
- track
- CL cleared land

VEGETATION ASSOCIATIONS OF DRYANDRA FOREST

	Map Unit
Woodland Formations	
Eucalyptus species	E
mainly *Eucalyptus accedens* (powder bark wandoo)	Ea
Eucalyptus calophylla (marri)	Ec
Eucalyptus laxophleba (York gum)	El
Eucalyptus marginata (jarrah)	Em
mainly *Eucalyptus wandoo* (white gum)	Ew
Eucalyptus astringens (brown mallet)	M
Allocasuarina huegeliana (rock sheoak)	C
Acacia acuminata (jam)	A
Kwongan (Shrubland and Heath) Formations	K
Short Kwongan	Kd
Dryandra and *Petrophile* Shrubland (Tall Kwongan)	Ke
Shrub Mallee (usually *Eucalyptus drummondii*)	
Lithic Complex	
Granite rock surface, Herbs, Shrublands	
Understorey Component of Laterite Areas	Kd
Dryandra nobilis + /or *Dryandra sulcata* + /or *Dryandra carduacea*	Kdc
Dryandra carduacea prominent	Kds
Dryandra sessilis prominent	

SCALE 1 : 25,000

VEGETATION OF DRYANDRA FOREST

Blocks - Turner, Lol Gray, South, Penny

N

LOL GRAY BLOCK
MALLET PLANTATION

TURNER BLOCK
MALLET PLANTATION

SOUTH BLOCK
MALLET PLANTATION

Legend:

- escarpment boundary
- vegetation boundary
- approximate vegetation boundary
- ( ) presence occasional
- - / - mosaic of more than one association
- 2 site number
- track
- CL cleared land

VEGETATION ASSOCIATIONS OF DRYANDRA FOREST

	Map Unit
Woodland Formations	
Eucalyptus species	E
mainly *Eucalyptus accedens* (powder bark wandoo)	Ea
Eucalyptus calophylla (marri)	Ec
Eucalyptus loxophleba (York gum)	El
Eucalyptus marginata (jarrah)	Em
mainly *Eucalyptus wandoo* (white gum)	Ew
Eucalyptus astringens (brown mallet)	M
Allocasuarina huegeliana (rock sheoak)	C
Acacia acuminata (jam)	A
Kwongan (Shrubland and Heath) Formations	
Short Kwongan	K
Dryandra and *Petrophile* Shrubland (Tall Kwongan)	Kd
Shrub Mallee (usually *Eucalyptus drummondii*)	Ke
Lithic Complex	
Granite rock surface, Herbs, Shrublands	
Understorey Component of Laterite Areas	
Dryandra nobilis + *or Dryandra stuposa* + *or Dryandra carduacea*	Kd
Dryandra carduacea prominent	Kdc
Dryandra sessilis prominent	Kds

SCALE 1 : 25,000