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### FLORISTICS OF YELVERTON STATE FOREST

Yelverton Forest is an isolated block of State Forest, NW of Margaret River between Yallingup and Cowaramup. It is the only substantial block of uncleared land in this region. During November 1989, a brief survey was undertaken of the area to locate populations of *Johnsonia inconspicua* which was previously known only from its type locality (5 km south of Carbanup River). This population had subsequently been destroyed by the expanding tip and sand mine.

#### Vegetation

The majority of the reserve is open Jarrah/Marri forest, ranging from tall to low in height depending on site. Sandy areas support a low woodland of *Agonis flexuosa* and *Allocasuarina fraserana*, or rarely a heath of *Pericalymma ellipticum*. Creeklines are edged with *Banksia littoralis* and *Callistachys lanceolata* over tall sedges. Along the edge of the railroad reserve a low dune supports a low open woodland of *Banksia* (*B. attenuata*/*B. illicifolia*) and *Allocasuarina fraserana*. This merges into the Jarrah/Marri woodland upslope. Opposite Poole Farm is a poorly drained flat dominated by *Homalospermum firmum* shrubland and to the north is a creekline with a low woodland of Bullich (*Eucalyptus megacarpa*).

#### Flora

Three hundred and eighty five species of vascular plant have been recorded from Yelverton Forest (10 are naturalized aliens). The majority of weeds are found in and around rubbish dumped along a track near the eastern boundary on Carter Rd and opposite Poole Farm. Efforts should be made to remove this rubbish and to clearly signpost these areas to ensure this practice ceases.

The flora is listed under families arranged alphabetically. Significant species are marked #. These include a population of *Caesia micrantha* which matches a undescribed species known only from Kalbarri to the Moore River. The largest known populations of *Johnsonia inconspicua* found along the railroad reserve on the eastern side of Yelverton Forest (in the *Banksia* low woodland). The populations of *Thysanotus glaucus* are the southernmost recorded and the only significant stands recorded in a reserve.

The *Actinotus* species recorded from the swamp opposite Poole Farm is the second known population of this species, previously known from north of Walpole. The record of *Platysace haplosciadia* (is either this or a new species) represents a range extension from Esperance.

Under Haemodoraceae the record of *Phlebocarya filifolia* represents the southernmost population (previous records Eneabba to Jandakot).

The record of *Gonocarpus simplex* (Haloragaceae) is the northernmost record, other collections are from Albany to Pemberton.

The record of *Logania* aff. *serpyllifolia* appears to be a previously unrecognized species. The herbarium contains two records of this taxon from the Busselton-Augusta area.

*Acacia inops* is a very restricted species, collections are known only from Yallingup and Margaret River. This is the only known record from CALM land.

*Calothamnus pallidiflorus* a species common on the Whicher Range, but with scattered records on the Blackwood Plateau towards Margaret River is here at the western margin of its range. This population is a significant range extension.

Two *Pultenaea* species (*P. drummondii* and *P. pinifolia*) recorded, are both Busselton-Augusta endemics. While both are well represented on CALM lands on the Blackwood Plateau, both are probably at the western limits of their ranges at Yelverton.

*Persoonia saccata* is here at the southernmost limit of its range, as is *Opercularia echinocephala* (previously recorded as a Perth region endemic in the Perth Regional Flora, extending from Midland to Yarloop).

The *Tripterooccus* sp. may prove to be the species previously considered confined to the Scott Plains. This species has been sent to Adelaide for expert identification.

Given the very preliminary nature of these findings (note the large number of unidentified species) the flora contains a number of remarkable species. Further study will almost certainly increase this number.

The current listing of Yelverton as State Forest, given its isolated nature, small size and location as the major area containing *Johnsonia inconspicua* is somewhat anomalous. The Department should consider re-classifying this region as a nature reserve during the current review of land classification.

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TABLE 1

FLORISTICS - Families are arranged alphabetically

Superscript \* = introduced

# = significant record

Postscript S = swamp

J = Jarrah woodland

B = Banksia woodland

D = Disturbed areas

J/B = Occurs both in Jarrah and Banksia woodland

FERNS

Schizaea dichotoma	S
Lindsaea linearis	J
Pteridium esculentum	J
Selaginella gracillima	S

GYMNOSPERMS

Podocarpus drouyiana	J
Macrozamia riedleii	J/B

FLOWERING PLANTS

AMARANTHACEAE

Ptilotus stirlingii	J
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ANTHERICACEAE

Agrostocrinum scabrum	J
Chaemascilla corymbosa	J
Burchardia umbellata	J/B
B. multiflora	S
#Caesia ?micrantha	J
C. occidentalis	J
Johnsonia acaulis	B
#J. inconspicua	B
Laxmannia ramosa	B/S
#Thysanotus glaucus	B
T. manglesianus	J/B
T. patersonii	J/B
T. multiflorus	J
T. triandrus	J
T. sp. 1	B
T. sp. 2	J
T. sp. 3	J
T. sp. 4	J
T. sp. 5	S
Tricoryne elatior	J/B
T. humilis	J

APIACEAE

Actinotus omnifertilis	B
#A. sp.	S
Hydrocotyle pilifera	J
Homaloseiadium homalocopum	J
Pentapeltis peltigera	J
#Platysace haplosciadia	B
P. ?compressa	J
P. tenuissima	J
Trachymene pilosa	J
Xanthosia candida	J
X. ciliata	J
X. huegelii	J/B

ASTERACEAE

Angianthus sp.	S
Asteridea sp.	B
Brachycome iberiidifolia	B
Craspedia pleiocephala	
*Hypochoeris glabra	J/B/D
Ixiolaena viscosa	J/B
Lagenifera huegelii	J
Millotia tenuifolia	B
Olearia ?ciliaris	J
O. sp.	S
Pithocarpa sp.	J
Quinetia urvilleai	J
Siloxerus humifusus	J
Senecio sp.	J
Trichocline scapigera	J
*Ursinia anthemoides	B
Waitzia citrina	B

CAMPANULACEAE

*Wahlenbergia capensis	B/D
W. gracilentata	J/B/Creek

CASUARINACEAE

Allocasuarina fraseriana	J/B
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CENTROLEPIDACEAE

Aphelia cyperoides	J/B
Centrolepis aristata	J/B
C. drummondiana	B/Creek
C. pilosa	B

CRASSULACEAE

Crassula colorata	J/B
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CYPERACEAE

Baumea sp.	S
Carex sp.	Creek
Carex sp.	S
Cyathochaeta avenacea	J/Bullich
*Cyperus tenellus	S/B
Isolepis sp.	S
Lepidosperma tetraquetrum	S/Creek
L. sp.	J
L. sp.	J
Lyginia ?tenax	J
L. barbata	B
Gahnia deusta	S
G. decomposita	Creek
Schoenus curvifolius	B
S. subflavus	J/B
S. sp. 1	J/B

S. sp. 2	B
S. sp. 3	Bullich

DASYPOGONACEAE

Dasyogon bromeliifolius	J/B
D. hookeri	J
Kingia australis	J
Lomandra caespitosa	J/B
L. hermaphrodita	J/B
L. integra	J
L. micrantha	J
L. pauciflora	Creek
L. sonderi	B
L. sericea	J
L. purpurea	J

DILLENACEAE

Hibbertia amplexicaulis	J
H. hypericoides	J
H. ?perfoliata	Creek
H. sp. 1	B
H. sp. 2.	J

DROSERACEAE

Drosera erythrorhiza	J
D. glanduligera	J
D. leucoblasta	B
D. macrantha	B
D. menziesii	J
D. pallida	J
D. pulchella	S
D. stolonifera	S
D. sp. 1	S
D. sp. 2	S

EPACRIDACEAE

Andersonia caerulea	J
A. sp. 1	J
A. sp. 2	B
A. sp. 3	S
Astroloma ciliatum	J
A. pallidum	J
Conostephium pendulum	B
Leucopogon australis	J
L. conostephioides	B
L. verticillatus	J
L. sp. 1	J
L. sp. 2	J
L. sp. 3	B
L. sp. 4	B
L. sp. 5	J/B
Lysinema ciliatum	B
Sphenotoma gracile	J

Hypocalymma angustifolium	J
H. cordifolium	S
H. ericifolium	S
H. strictum	Bullich
Melaleuca acerosa	B
M. incana	B/Creek
M. ?scabra	B
M. thymoides	B
Pericalymma ellipticum	S

#### ORCHIDACEAE

Acianthus reniformis	S
Corybas sp.	Creek
Diuris longifolia	J
Caladenia cairnsiana	B
C. flava	J
C. marginata	J
C. patersonii	B
C. sp.	S
C. sp.	J
Drakea sp. 1	B
D. sp. 2	J
Elythranthera brunonis	J/B
E. emarginata	J
Lyperanthus nigricans	J
L. serratus	J
Microtis atrata	S
Pterostylis barbata	J
P. nana	J/Creek
P. recurva	J
P. vittata	J/B
Thelymitra cornicina	J
T. fuscolutea	S
T. crinita	J
T. mucida	S
T. pauciflora	J
T. sp.	J

#### CROBANCHACEAE

Orobanche minor	J/B
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#### PAPILLIONACEAE

Aotus ?ericoides	S
Bossiaea aquifolium	J
B. linophyllum	J
B. ornata	J
B. rufa	B
Burtonia conferta	J
B. sp.	J
Chorizema rhombeum	J
C. illicifolium	J
Daviesia cordata	J
D. inflata	J
D. horrida	J
D. sp.	J



Gompholobium aristatum	B
G. knightianum	J
G. marginatum	J
G. polymorphum	J
G. sp. 1	J/B
G. sp. 2	Agonis/J
Hovea chorizemifolia	J
H. ellipticum	J
H. trisperma	J
Isotropis cueniformis	B
Jacksonia furcellata	B
J. ?sternbergiana	B
Mirbelia dilatata	J
Oxylobium lanceolatum	Creek
*Podalyria sericea	D/J
#Pultenaea drummondii	J
#P. pinifolia	Creek
P. reticulata	B
Sphaerolobium macranthum	J
S. linophyllum	B/S
S. medium	J
S. sp.	S/Bullich

#### PITTOSPORACEAE

Billardiera candida	Bullich/S
B. sp.	J
Cheiranthra	Bullich
Poronaya fraseri	J
Solllya heterophylla	J/S

#### POACEAE

Amphipogon amphipogonoides	B
A. turbinatus	J
*Anthoxanthum odoratum	J
Danthonia caespitosa	J
Microlaena stipoides	J
Stipa compressa	B
S. semibarbata	J
Tetrrahena laevis	J

#### POLYGALACEAE

Comesperma virgatum	S
C. volubile	J

#### POLYGONACEAE

*Rumex acetosella	D
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#### PROTEACEAE

Adenanthos barbigerus	J
A. obovatus	J
A. meisneri	B
Banksia attenuata	B
B. grandis	J/B

B. illicifolia	B
B. littoralis	S
Conospermum capitatum	J
C. longifolia	B
Dryandra bipinnatifida	J
D. nivea	J
Grevillea brevicuspis	J
G. quercifolia	J
Hakea amplexicaulis	J
H. lissocarpa	J
H. lasianthoides	J
H. ruscifolia	J
Isopogon sphaerocephalus	J
Personia elliptica	J
P. longifolia	J
#P. saccata	B
Petrophile diversifolia	J
P. linearis	B
Stirlingia tenuifolia	B
Synaphaea sp.	J
Xylomelon occidentale	J/B
RANUNCULACEAE	
Clematis pubescens	Creek
RESTIACEAE	
Anarthria prolifera	J
A. laevis	S
Leptocarpus canus	S
L. sp.	J
L. sp.	B
Loxocarya cinerea	J
L. fascicularis	J
?Pseudoloxocarya sp.	S
Restio sp.	B
RHAMNACEAE	
Trymalium floribundum	Creek
T. ledifolium	J
RUBIACEAE	
Galium aparium	J/Creek
*G. divaricatum	D
Opercularia apiciflora	J
#O. echinocephala	J
O. hispidula	J
O. spermacoce	J
RUTACEAE	
Boronia crenulata	J
B. graciliceps	S/Creek
B. ramosa	B
B. spathulata	S

B. sp. 1	B
B. sp. 2	S
Eriostemon spicatus	J
SANTALACEAE	
Leptomeria cunninghamii	J
L. squarrulosa	J
SOLANACEAE	
*Solanum nigrum	D
STACKHOUSIACEAE	
Stackhousia huegelii	B/J
Tripterococcus brunonis	J
#T. sp.	Bullich
STERCULIACEAE	
Thomasia discolor	J
T. pauciflora	S
T. sp.	Creek
STYLIDIACEAE	
Levehookia pusilla	J
L. stipitata	J/B
L. sp.	S
Stylidium bulbiferum	J
S. adnatum	J
S. aff. brunonianum	B
S. calcaratum	J
S. breviscapum	Bullich
S. ?diversifolium	J
S. guttatum	S
S. ?luteum	Bullich
S. junceum	J
S. maitlandianum	J
S. piliferum	B
s. repens	B
S. schoenoides	J
S. sp.	S
THYMELEACEAE	
Pimelea suaveolens	J
P. sulphurea	S
P. sylvestris	Creek
P. sp. 1	J
P. sp. 2	S
P. sp. 3	J
TREMANDRACEAE	
Platytheca galioides	J/B
Tetratheca setigera	J

Tremandra diffusa  
T. stelligera

S  
Creek

VIOLACEAE

Hybanthus cymulosus

J

XANTHORRHOEACEAE

Xanthorrhoea gracilis  
X. preissii

J  
J/B