

## **TOOTANELUP NATURE RESERVE; FLORA AND VEGETATION**

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August 2013

### **SUMMARY**

A total of 376 native taxa and 50 weeds were recorded from Tootanellup Nature Reserve. This included six priority taxa: *Eryngium muirii* (P2), *Amblysperma minor* (*Trichocline* sp Treeton (Bk & NG 564)-P2), *Schoenus natans* (P4), *Tribonanthes* sp Lake Muir (GK & NG 2134) (p3), *Hemigenia microphylla* (P3) and *Ornduffia submersa* (P3).

The reserve contains a series of clay flats and claypans typical of those recorded in the Lake Muir Reserves. A potentially new form of Ferricrete community dominated by *Melaleuca cuticularis* was also recorded.

### **Introduction**

Tootanellup Nature Reserve is located SE of Frankland and approximately 6 km NE of Rocky Gully. The reserve was surveyed over two days in November 2011 with the assistance of Jannine Liddelow of Frankland District as part of the pre controlled burn plans for this reserve and Randall Road Reserve.

### **Biological Values**

#### **Flora**

A total of 376 native taxa and 50 weeds were recorded from the reserve (Table 1). This number could be expected to increase with further survey in other seasons. The diversity of soils and wetlands present in the reserve are reflected in the rich diversity of native species recorded. It is expected that we recorded 80% of the expected flora.

This included six priority taxa: *Eryngium muirii* (P2), *Amblysperma minor* (*Trichocline* sp Treeton (Bk & NG 564)-P2), *Schoenus natans* (P4), *Tribonanthes* sp Lake Muir (GK & NG 2134) (p3), *Hemigenia microphylla* (P3) and *Ornduffia submersa* (P3).

#### **Vegetation Descriptions**

The Reserve has a diverse array of vegetation communities, with four eucalypt woodlands

1. Jarrah-Marri open woodland on sand

2. Jarrah-Marri forest to woodland on laterite

3. Yate tall open woodland

4. Wandoor woodland

The other major vegetation community are the wetlands. These were combined under Wetland Mosaic; comprising

a: Wet heath dominated by *Melaleuca lateritia*

b: *Melaleuca preissiana* and *Melaleuca rhamphophylla* woodlands,

c: heath on clay flats (Over rich dense herbs and sedges) and

d: *Melaleuca cuticularis* low open woodland over wet heath.

e: *Melaleuca cuticularis* low open woodland over *Melaleuca spathulata/M. spp* heath

Vegetation types a, c and d contain clay pan pools with aquatic herbs, grasses and sedges. These communities were sampled using permanently marked 100m<sup>2</sup> quadrats with the data being held at Frankland District. The flora of the wetland mosaic is similar to that recorded in the Byenup-Muir Reserves (Gibson and Keighery, 2000).

Vegetation type e occurs on massive ironstone, and appears to be an intact example of a community previously recorded in Kululinup Nature Reserve in the Lake Muir Recovery Catchment, however, here the examples were severely affected by sheet flooding and salinity. This ironstone community is probably a new form of ironstone community, most of which are listed as threatened at State and federal level (Three Springs Ferricretes, GinGin Ironstones, Busselton Ironstones, Scott River Ironstones).

There are similar communities north east of Frankland towards Kojonup (Appendix 1). It would be preferable to burn the reserve either when the wetland communities were dry or too damp to carry a hot fire.

## References

Gibson, N., and Keighery, G.J. (2000). Flora and Vegetation of the Byenup – Muir reserve system, south west Western Australia. CALMScience 3: 323-402.

## Appendix 1: Kojonup to Frankland Road Quadrat Description

### **Quadrat FRANK01**

**2 Km. N. intersection with Homebush entrance, 3.6 km. n. of Boyup Brook to Cranbrook Road,  
Kojonup to Frankland Road**

**GPS location (GDA94):**

**Date Sampled:** 19/07/2012

**Site description:** Poorly drained gently sloping to east wet flat. Black-greyloamy sand over ironstone.  
Litter 90% cover; 10% bare ground.

**Vegetation condition:** Excellent-Very Good.

**Vegetation Description:** *Melaleuca preissiana* low open Woodland, over *Allocasuarina lehmanniana*,  
*Melaleuca viminea* and *Kunzea recurva* tall shrubland over *Hakea varia*, *Isopogon buxifolius*  
*Xanthorrhoea?brevistylis* Open Heath, over *Borya scirpoidea* Hermland, and *Anarthria laevis* and  
*Harperia lateriflora* Very Open Sedgeland.

### **Taxa in quadrat**

**Trees:** *Melaleuca preissiana*

**Shrubs:** *Acacia saligna*, *Acacia stenoptera*, *Acacia* sp, *Allocasuarina lehmanniana*, *Astartea* sp Lake  
Muir, *Hakea sulcata*, *Hakea varia*, *Hibbertia stejllaris*, *Hypocalymma angustifolium*, *Isopogon*  
*buxifolius*, *Kunzea recurva*, *Leptomeria pauciflora*, *Melaleuca viminea*, *Viminaria juncea*,  
*Verticordia densiflora*, *Xanthorrhoea? brevistylis*

**Grasses:** *Neurachne alopecuroidea*

**Herbs:** *Arthropodium capillipes*, *Borya scirpoidea*, *Burchardia multiflora*, *Caesia micrantha*,  
*Chaemascilla versicolor*, *Craspedia variabilis*, *Dampiera alata*, *Drosera tubaestylis*,  
\**Hypochaeris glabra*, *Lagenophora huegelii*, *Patersonia occidentale* var *occidentale*,  
*Prasophyllum parviflorum*, *Ptilotus manglesii*, \**Sonchus oleraceus*, *Stylium spathulatum*

**Sedges:** *Anarthria laevis*, *Harperia lateriflora*, *Lepidosperma terete*, *Lepidosperma squamatum*,  
*Mesomelaena tetragona*, *Schoenus rigens*, *Tetraria capillaris*

### **Taxa adjacent to quadrat**

**Trees:** *Mellauca cuticularis*, *Eucalyptus occidentalis*, *Banksia littoralis*

**Shrubs:** *Callitris pyramidalis*

Table 1: Tootanellup Nature Reserve Flora List

**Habitat Code:** 1: Yate Flats, 2 - Disturbed, 3 – Jarrah Woodlands, 4 –Claypans, 5 – Wetland mosaic, 6 – Wandoo woodlands.

* Naturalised/ Scientific name						
	1	2	3	4	5	6
ADIANTACEAE						
Cheilanthes austrotenuifolia	+					
AMARANTHACEAE						
Amaranthus nodiflora					+	
Ptilotus manglesii				+		
ANTHERICACAE						
Arthropodium capillipes	+		+			
Arthropodium preissii				+	+	
Borya laciniata						+
Borya scirpoidea						+
Borya sphaerocephala						+
Caesia micrantha			+			
Caesia occidentalis	+				+	
Chamaescilla corymbosa var corymbosa	+		+			
Chamaescilla spiralis						+
Johnsonia lupulina			+			
Laxmannia minor	+					+
Agrostocrinum hirsutum			+			
Sowerbaea laxiflora	+		+			+
Thysanotus manglesianus			+			+
Thysanotus patersonii						+
Thysanotus tenellus					+	+
Tricoryne elatior					+	
Tricoryne humilis			+		+	
APIACEAE						
Centella cordifolia						+
Daucus glochidiatus	+					+
Homalosciadium homalocarpum			+			+
Hydrocotyle alata					+	+
Hydrocotyle pilifera					+	+
Hydrocotyle diantha			+		+	
Eryngium muirii ms				+		
Eryngium pinnatifidum subsp. minor ms				+		+
Schoenolaena tenuior				+		

Trachymene pilosa			+			
Xanthosia candida			+			+
Xanthosia huegelii			+			
ASPHODELEACEAE						
Bulbine semibarbata						+
Asteraceae						
Amblyserperma minor						+
* Arctotheca calendula	+	+	+			
Angianthus preissianus	+					+
Asteridea nivea						+
Blennospora drummondii						+
Brachyscome pusilla/iberidifolia			+			
* Carduus pycnocephalus			+			
* Conyza sumatrensis			+		+	
* Cotula bipinnata			+			+
Cotula coronopifolia			+		+	
* Cotula turbinata			+			
* Dittrichia graveolens			+			+
Gnephosis tenuissima						+
Euchiton gymnocephalus						+
Euchiton collinus						+
Hyalosperma simplex					+	+
* Hypochaeris glabra	+	+	+		+	+
Lagenifera huegelii	+		+			
Millotia tenuifolia			+			+
Olearia paudentata			+			
Podolepis gracilis						+
Podotheca angustifolia						+
* Helichrysum luteo-album			+			
Quinetia urvillei						+
Rhodanthe citrina			+			
Rhodanthe pyrethrum						+
Siloxerus humifusus						+
Siloxerus multiflorus						+
* Sonchus oleraceus			+			+
* Vellereophyton dealbatum			+			+
BRASSICACEAE						
Lepidium rotundum						+
CAMPANULACEAE						
Wahlenbergia multicaulis						+
Wahlenbergia preissii			+		+	
CARYOPHYLLACEAE						
* Cerastium glomeratum			+			+
* Petrorhagia velutina			+			

* <i>Spergula rubra</i>							+	
CASUARINACEAE								
<i>Allocasuarina huegeliana</i>								+
<i>Allocasuarina humilis</i>						+		+
<i>Allocasuarina lehmanniana</i>								+
CENTROLEPIDACEAE								
<i>Aphelia cyperoides</i>	+			+	+		+	
<i>Brizula drummondii</i>	+			+	+			
<i>Brizula nutans</i>					+			
<i>Centrolepis aristata</i>	+		+		+		+	
<i>Centrolepis drummondii</i>			+					
<i>Centrolepis glabra</i>						+		
<i>Centrolepis pilosa</i>				+				+
<i>Centrolepis polygyna</i>						+		
COLCHICACEAE								
<i>Burchardia congesta</i>					+			+
<i>Burchardia monantha</i>								+
<i>Burchardia multiflora</i>								+
<i>Wurmbea dioica</i> subsp. Claypan (GK )								+
CHENOPODIACEAE								
* <i>Atriplex prostrata</i>					+			
CRASSULACEAE								
<i>Crassula colorata</i> var. <i>colorata</i>				+	+	+	+	
<i>Crassula exserta</i>								+
* <i>Crassula natans</i> subsp. <i>minus</i>							+	
<i>Crassula pedicellosa</i>	+						+	
<i>Crassula peduncularis</i>								+
CUPRESSACEAE								
<i>Callitris pyramidalis</i>								+
CUSCUTACEAE								
* <i>Cuscuta epithymum</i>								+
CYPERACEAE							+	+
<i>Baumea juncea</i>							+	
<i>Baumea rubiginosa</i>						+		+
<i>Chorizandra enodis</i>						+		+
<i>Cyathochaeta avenacea</i>							+	+
* <i>Cyperus tenellus</i>				+	+			
<i>Gahnia ancistrophylla</i>								+
<i>Gahnia trifida</i>								+
<i>Isolepis cernua</i> var <i>setiformis</i>								+
<i>Isolepis cernua</i> var <i>cernua</i>						+		

Isolepis fluitans			+ +		
* Isolepis marginata			+ +		
Isolepis ?producta				+ +	
Lepidosperma angustatum			+ +		
Lepidosperma longitudinale	+			+ +	
Lepidosperma ?tenuue	+	+			
Lepidosperma sp 1				+ +	
Lepidosperma sp 2				+ +	
Mesomelaena stygia			+ +		
Mesomelaena tetragona				+ +	
Schoenus bifidus				+ +	
Schoenus natans				+ +	
Schoenus elegans				+ +	
Schoenus plumosus					+ +
Schoenus subflavus			+ +		
Schoenus tenellus				+ +	
Schoenus subbulbosus			+ +		
Schoenus sp.				+ +	
Tetraria capillaris					+ +
Tetraria octandra			+ +		
DASYPOGONACEAE					
Chamexeros serra					+ +
Dasypogon bromeliifolius			+ +		
Lomandra caespitosa	+	+	+ +		
Lomandra collina			+ +		
Lomandra micrantha			+ +		
Lomandra nigricans			+ +		
Lomandra purpurea			+ +	+ +	
Lomandra sonderi			+ +		
Lomandra suaevoleolens			+ +		
DILLENIACEAE					
Hibbertia ?commutata			+ +		
Hibbertia cunninghamii			+ +		
Hibbertia racemosa			+ +		
Hibbertia stellaris				+ +	
Hibbertia subvaginata			+ +		
DROSERACEAE					
Drosera erythrorhiza	+	+	+ +		
Drosera gigantea				+ +	
Drosera glanduligera				+ +	
Drosera macrantha			+ +		
Drosera menziesii subsp. menziesii				+ +	
Drosera rostulata				+ +	
EPACRIDACEAE					
Andersonia caerulea			+ +		

Astroloma baxteri							+
Astroloma ciliatum							+
Astroloma pallidum			+				
Leucopogon australis			+				
Leucopogon capitellatus			+	+			
Leucopogon conostephoides			+	+			
Leucopogon parviflorus			+	+			
Leucopogon ?pendulus			+				
Lysinema pentapetalum			+				
Leucopogon verticillatus			+				
Sphentoma capitatum						+	
<b>EUPHORBIACEAE</b>							
Poranthera microphylla					+	+	
<b>GENTIANACEAE</b>							
* Centaurium erythraea					+		
* Cicendea filiformis						+	
<b>GERANIACEAE</b>							
Geranium solanderi						+	
<b>GOODENIACEAE</b>							
Anthotium humile						+	
Dampiera alata							+
Dampiera linearis				+	+		
Dampiera teres				+			+
Goodenia caerulea				+			+
Goodenia mimuloides						+	
Goodenia micrantha						+	+
Goodenia pulchella							+
Lechenaultia formosa							+
Scaevola phlebopetala					+		
Velleia trinervis						+	+
						+	+
<b>HAEMODORACEAE</b>							
Anigozanthos bicolor							+
Conostylis aculeata					+		
Conostylis laxiflora				+	+	+	
Conostylis setigera							+
Haemodorum laxum				+		+	
Haemodorum simplex						+	
Haemodorum sparsiflorum						+	+
Tribonanthes longipetala							+
Tribonanthes australis						+	
Tribonanthes sp. Lake Muir						+	
<b>HALORAGACEAE</b>							
Glischrocaryon aureum						+	

HYDATELLACEAE					
<i>Trithuria bibracteata</i>				+	
<i>Trithuria submersa</i>				+	
HYPOXIDACEAE					
<i>Hypoxis occidentalis</i>					+
IRIDACEAE					
<i>Patersonia juncea</i>					+
<i>Patersonia occidentalis</i>				+	
* <i>Romulea rosea</i> var <i>rosea</i>			+		+
* <i>Romulea rosea</i> var <i>australis</i>			+	+	+
ISOETACEAE					
<i>Isoetes drummondii</i>					+
JUNCACEAE					
* <i>Juncus articulatus</i>			+		+
* <i>Juncus bufonius</i>					+
* <i>Juncus capitatus</i>			+	+	+
<i>Juncus radula</i>				+	
<i>Juncus pallida</i>					+
<i>Luzula meridionalis</i>				+	
JUNCAGINACEAE					
<i>Triglochin lineare</i>					+
<i>Triglochin nana</i>				+	
LAMIACEAE					
<i>Hemigenia microphylla</i>					+
* <i>Mentha pulegium</i>			+		
LAURACEAE					
<i>Cassytha racemosa</i>				+	+
LENTIBULARIACEAE					
<i>Polypompholyx multifida</i>			+	+	+
<i>Polypomphylx tenella</i>			+	+	+
<i>Utricularia menziesii</i>				+	
LINDSAEACEAE					
<i>Lindsaea linearis</i>			+	+	
LOBELIACEAE				+	
<i>Lobelia gibbosa</i>					
* <i>Monopsis simplex</i>					+
LOGANIACEAE					

<i>Logania campanulata</i>			+		
<i>Logania serpyllifolia</i>			+		
<i>Phyllangium paradoxum</i>	+		+		+
<b>LORANTHACEAE</b>					
<i>Ameyema miquelii</i>	+				
<i>Nuytsia floribunda</i>			+		
<b>LYTHRACEAE</b>					
* <i>Lythrum hyssopifolium</i>		+	+		
<b>MALVACEAE</b>					
			+	+	
<b>MENYANTHACEAE</b>					
<i>Ornduffia albiflora</i>				+	
<i>Ornduffia submersa</i>				+	
<b>MIMOSACEAE</b>					
<i>Acacia alata</i>			+		+
<i>Acacia cyclops</i>		+			
<i>Acacia extensa</i>					+
<i>Acacia huegelii</i>			+		
<i>Acacia incurva</i>	+			+	+
<i>Acacia nervosa</i>	+		+	+	+
<i>Acacia pulchella</i> var <i>glaberrima</i>	+			+	+
<i>Acacia saligna</i>	+			+	
<i>Acacia stenoptera</i>			+		+
<b>MYRTACEAE</b>					
<i>Actinodium cunninghamii</i>					+
<i>Astartea pink weeping</i>				+	+
<i>Astartea small white</i>					+
<i>Calothamnus lateralis</i>					+
<i>Calothamnus sanguineus</i>			+		+
<i>Calothamnus schaueri</i>					+
<i>Calytrix flavescens</i>			+		
<i>Darwinia vestita</i>					+
<i>Eucalyptus calophylla</i>			+		
<i>Eucalyptus decipiens</i>					+
<i>Eucalyptus occidentalis</i>	+				+
<i>Eucalyptus rufa</i>					+
<i>Eucalyptus wandoo</i>					+
<i>Eucalyptus marginata</i> subsp. <i>marginata</i>			+		
<i>Hypocalymma angustifolium</i>				+	+
<i>Kunzea micrantha</i>				+	+
<i>Kunzea ?recurva</i>				+	
<i>Melaleuca cuticularis</i>				+	+
<i>Melaleuca carrii</i>			+		

Melaleuca lateritia				+	+	
Melaleuca lateriflora subsp. lateriflora					+	
Melaleuca raphiophylla					+	+
Melaleuca leptoclada					+	+
Melaleuca seriata					+	+
Melaleuca spathulata					+	+
Melaleuca thymoides			+			
Melaleuca viminea					+	+
Pericalymma ellipticum					+	+
Taxandria juniperina	+				+	
Verticordia densiflora			+			+
Verticordia plumosa						+
OLACACEAE						
Olax benthamiana				+		
ONAGRACEAE						
Epilobium billarierianum						+
Orchidaceae						
Caladenia flava		+	+			+
Caladenia latifolia			+			
Caladenia longicauda		+	+			+
Caladenia nana subsp. nana						+
Caladenia reptans						+
Caladenia marginata		+				+
Cyanicula gemmata						+
Cryptostylis robusta						+
Diuris corymbosa			+			+
Diuris laxiflora	+					
Elythranthera brunonis		+	+	+	+	+
Elythranthera emarginata		+		+	+	+
Eriochilus dilatatus			+	+		
Leptoceras menziesii			+			
Leporella fimbriata			+			+
Lyperanthus serratus			+			
Microtis atrata					+	
Microtis media			+	+	+	+
Microtis orbifolia					+	
* Monadenia bracteata						+
Prasophyllum sp						+
Prasophyllum fimbria						+
Prasophyllum parvifolium				+		
Pterostylis aff. nana	+				+	+
Pterostylis barbata	+					
Pterostylis recurva			+	+	+	+
Pterostylis vittata			+	+	+	+
Pyrorchis nigricans						+
Thelymitra crinita			+			+

<i>Thelymitra flexuosa</i>			+			+
<i>Thelymitra vulgaris</i>	+				+	
Orobanchaceae						
* <i>Orobanche minor</i>					+	+
Papilionaceae						
<i>Bossiaea eriocarpa</i>			+			
<i>Bossiaea linophylla</i>			+			+
<i>Bossiaea ornata</i>			+			+
<i>Bossiaea praetissima</i>					+	
<i>Chorizema ?aciculare</i>						+
<i>Daviesia cordata</i>						+
<i>Daviesia incrassata</i>						
<i>Daviesia preissii</i>					+	+
<i>Eutaxia virgata</i>						+
<i>Gastrolobium ?melanopetalum</i>					+	
<i>Gastrolobium praemorsum</i>						+
<i>Gompholobium capitatum</i>			+			
<i>Gompholobium knightianum</i>			+			+
<i>Gompholobium marginatum</i>			+			+
<i>Gompholobium polymorphum</i>					+	
<i>Gompholobium ovatum</i>			+			
<i>Gompholobium preissii</i>	+		+	+	+	+
<i>Gompholobium scabrum</i>					+	
<i>Gompholobium tomentosum</i>			+			
<i>Hovea chorizemifolia</i>			+			+
<i>Hovea trisperma</i> subsp. <i>trisperma</i>			+			
<i>Isotropis cuneifolia</i>			+			+
<i>Kennedia coccinea</i>						
<i>Kennedia prostrata</i>			+			
* <i>Lotus angustissimus</i>	+	+				+
* <i>Lotus suaveolens</i>	+				+	
* <i>Ornithopus compressus</i>	+				+	
* <i>Ornithopus sativus</i>	+					+
<i>Pultenaea ericifolia</i>						+
<i>Pultenaea reticulata</i>						
<i>Sphaerolobium medium</i>			+			
* <i>Trifolium campestre</i>						+
* <i>Trifolium dubium</i>	+		+			
<i>Viminaria juncea</i>				+	+	
Philydraceae						
<i>Philydrella pygmaea</i>						+
Phormiaceae						
<i>Dianella brevicaulis</i>					+	+
<i>Dianella revoluta</i> var. <i>revoluta</i>			+		+	+
<i>Stypandra glauca</i>						+

Pittosporaceae					
<i>Billardiera fusiformis</i>			+		+
<i>Marianthus candidus</i>			+		+
<i>Marianthus tenuis</i>			+		
<i>Pronaya fraseri</i>					+
Poaceae					
* <i>Aira cupaniana</i>		+	+	+	+
<i>Amphipogon debilis</i>			+		
<i>Amphipogon turbinatus</i>					+
<i>Rytidosperma occidentalis</i>			+		+
<i>Rytidosperma setacea</i>					+
<i>Austrostipa compressa</i>			+		+
<i>Austrostipa pycnostachya</i>			+	+	+
<i>Austrostipa teretifolia</i>					+
* <i>Briza maxima</i>		+			+
* <i>Briza minor</i>		+	+		+
<i>Deyeuxia quadrisetata</i>					+
<i>Dichelachne crinita</i>			+		+
* <i>Holcus lanatus</i>		+			+
<i>Lachnagrostis filiformis</i>					+
* <i>Lolium rigidum</i>		+			+
<i>Microlaena stipoides</i>					+
<i>Neurachne alopecuroidea</i>		+	+		+
* <i>Poa annua</i>					+
<i>Poa drummondiana</i>		+			+
<i>Tetrarrhena laevis</i>					+
* <i>Vulpia myuros</i>					+
		+			+
Polygalaceae					
<i>Comesperma calymega</i>					+
<i>Comesperma ciliatum</i>					+
<i>Comesperma flavum</i>					+
<i>Comesperma virgatum</i>					+
Polygonaceae					
* <i>Acetosella vulgaris</i>					+
* <i>Rumex conglomeratus</i>					+
<i>Muehlenbeckia adpressa</i>					+
Primulaceae					
* <i>Anagallis arvensis var. arvensis</i>					+
* <i>Anagallis arvensis var. caerulea</i>					+
<i>Samolus junceus</i>					+
Proteaceae					
<i>Banksia grandis</i>					+
<i>Banksia littoralis</i>					+

Conospermum capitatum			+	+	
Dryandra armata					+
Dryandra bipinnatifida			+		
Dryandra lindleyana			+		+
Grevillea brownii					+
Hakea lissocarpha			+		+
Hakea prostrata			+		+
Hakea ruscifolia			+	+	+
Hakea sulcata			+	+	
Hakea varia				+	+
Persoonia longifolia			+		
Petrophile media			+		
Petrophile squamata					+
Petrophile serruriae					+
Synaphea floribunda			+		
Synaphea gracillima					+
Synaphea petiolaris			+		+
Ranunculaceae					
Clematis pubescens	+				+
Restionaceae					
Anarthria laevis					+
Anarthria prolifera					+
Desmocladus fasciculatus			+	+	+
Harperia lateriflora					
Hypolaena exsulca			+		
Leptocarpus tenax					
Lepyrodia muirii				+	+
Loxocarya cinerea			+		
Lyginia barbata			+		
Meeboldina canus				+	
Meeboldina co-angustata				+	
Meeboldina scariosa				+	
Tremulina tremula				+	
Rubiaceae					
* Galium murale					+
Opercularia apiciflora			+	+	
Opercularia hispidula			+		
Opercularia vaginata	+	+	+	+	+
Rutaceae					
Boronia ramosa subsp. anethifolia					+
Boronia spathulata					+
Santalaceae					
Leptomeria cunninghamii	+			+	
Santalum acuminatum					+

Scrophulariaceae						
<i>Gratiola pubscens</i>					+	
* <i>Parentucellia latifolia</i>						+
* <i>Parentucellia viscosa</i>						+
Selaginellaceae						
<i>Selaginella gracillima</i>						+
Solanaceae						
* <i>Solanum nigrum</i>				+		+
Stackhousiaceae						
<i>Stackhousia pubescens</i>					+	+
<i>Tripteroecoccus brunonis</i>						+
Styliadiaceae						
<i>Levenhookia pusilla</i>					+	+
<i>Levenhookia stipitata</i>					+	+
<i>Styliodium assimile</i>						+
<i>Styliodium brunonianum</i>						+
<i>Styliodium androsaceum</i>				+		+
<i>Styliodium carnosum</i>						+
<i>Styliodium crassifolium</i>						+
<i>Styliodium ecorne</i>						+
<i>Styliodium emarginatum</i>						+
<i>Styliodium guttatum</i>						+
<i>Styliodium innundatum</i>						+
<i>Styliodium lepidum</i>						+
<i>Styliodium perpusillum</i>						
<i>Styliodium petiolare</i>					+	+
<i>Styliodium pulchellum</i>						+
<i>Styliodium repens</i> var. <i>repens</i>				+		
<i>Styliodium schoenoides</i>				+		
<i>Styliodium spathulatum</i>						+
Thymelaeaceae						
<i>Pimelea angustifolia</i>						+
<i>Pimelea ciliatum</i>					+	
<i>Pimelea suaveolens</i> subsp. <i>suaveolens</i>				+		+
Tremandraceae						
<i>Platytheca galiooides</i>						+
<i>Tetratheca setigera</i>					+	+
Violaceae						
<i>Hybanthus floribundus</i> subsp. <i>floribundus</i>				+		+
Xanthorrhoeaceae						

<i>Xanthorrhoea gracilis</i>					+	+
<i>Xanthorrhoea preissii</i>			+			+
<i>Zamiaceae</i>						
<i>Macrozamia fraseri</i>			+			+