

AVON-MORTLOCK DISTRICT THREATENED FLORA AND COMMUNITIES MANAGEMENT PROGRAM

Annual Report 2008

For the Avon-Mortlock District Threatened Flora and Communities Recovery
Team

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Image 1: *Pityrodia scabra* recruitment from 2007 burn.

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*Avon-Mortlock District Threatened Flora and Communities Management Program
2008 Annual Report*

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1. THREATENED FLORA AND COMMUNITIES RECOVERY TEAM

1.1 Roles and Responsibilities

The role of the Avon-Mortlock District Threatened Flora and Communities Recovery Team is to coordinate the implementation of relevant Interim Recovery Plans (IRP's) for threatened flora and Wildlife Management Program's for threatened and priority Flora. Implementation is largely conducted by Conservation Officers from the Department of Environment and Conservations Avon Mortlock District.

1.2 Members

Table one below lists the members of the Avon Mortlock District Threatened Flora and Communities Recovery Team in 2008. The participation of Recovery Team Members has been paramount in achieving the goals of the Avon-Mortlock District Threatened Flora Management Program. It has enabled greater flow of information between government and non government agencies, community groups and concerned individuals; facilitating more effective use of resources and resulting in positive outcomes for threatened flora in the district.

| Name | Organisation |
|--|--|
| Alan Kietzmann | District Manager, DEC Avon-Mortlock |
| Amanda Fairs | Project Officer, DEC Species and Communities branch |
| Andrew Brown | Threatened Flora Coordinator, DEC Species and Communities branch |
| Andrew Crawford | DEC Threatened Flora Seed Centre |
| Brett Beecham | Regional Ecologist DEC Narrogin |
| Bruce Eldridge | WestNet Rail |
| Cicely Howell | York River Conservation Society |
| David Jolliffe (Chair) | District Nature Conservation Officer DEC Avon Mortlock |
| Fred Hort | DEC Volunteer |
| Gillian Stack | Conservation Officer DEC, Kensington |
| Helena Mills | WWF Australia Project Officer, Northam |
| Ian Smith | Wongan Ballidu Bush Care Group / DEC casual employee |
| Joel Collins | Conservation Officer, DEC Avon-Mortlock |
| John Stevens | WestNet Rail |
| Joy Fleay | York Wildflower Society |
| Leonie Monks | DEC, Science Division |
| Lorraine Duffy (resigned March 2008) | Conservation Officer (ACC), DEC Avon-Mortlock |
| Lyn Phillips | Wongan Ballidu Bush Care Group / DEC casual employee |
| Margaret Redfern (commenced November 2008) | Conservation Officer DEC Avon Mortlock |
| Mick Davis | Ecologist DEC Kensington |
| Melanie Smith | Senior Botanist DEC Kensington |
| Mike Griffiths | WWF Australia Project Officer, Northam |
| Nigel Rowe | Main Roads |
| Paul Tholen (resigned April 2008) | District Nature Conservation Officer, DEC Avon-Mortlock |
| Peter Smyth | WestNet Rail |
| Phil Lewis | WWF Australia Project Officer, Northam |
| Robert Boase | Community member (Dowerin) |
| Rob Waller | Water Corporation |
| Sonya Thomas | Wongan Ballidu Bush Care Group / DEC casual employee |
| Kezia Pontifex | Goomalling/Dowerin Community Landcare Officer |
| Wendy Chow | Threatened Ecological Communities Conservation Officer, Species and Communities branch DEC |

Table 1: 2008 Avon-Mortlock District Rare Flora and Communities Recovery Team Members

1.3 Recovery Team Meetings

The Avon-Mortlock Threatened Flora and Communities Recovery Team held 1 meeting during 2008.

The meeting was held on 26 August 2008 at Northam and had an attendance of 22 members. Presentations were delivered by DEC project officers from the District and Species and Communities Branch, community members, WWF, and Main Roads.

2. FUNDING

2.1 Avon Catchment Council Funding 'Back from the Edge' Project

The Avon Catchment Council (ACC) has provided Commonwealth funding to the DEC Wheatbelt Region to implement a range of conservation projects through-out the Avon Basin. This funding has been allocated since October 2005, with funding committed for the 2008-2009 financial year.

Threatened species and communities have received funding through the project 'Back from the Edge: Saving Native Species and Communities Most at Risk'. The aim of this project is to develop a strategic approach to threatened species and community management and to carry out urgent recovery actions.

3. SPECIES AND COMMUNITIES BRANCH – INTERIM RECOVERY PLANS

3.1 IRP's approved by District/Region and Director NC

- *Acacia pharangites*
- *Banksia cuneata*
- *Cyphanthera odgersii* subsp. *occidentalis*
- *Daviesia cunderdin*
- *Frankenia conferta*
- *Gastrolobium glaucum*
- *Haloragis platycarpa*

4. AVON-MORTLOCK DISTRICT THREATENED FLORA MANAGEMENT PROGRAM

4.1 Avon-Mortlock Threatened Flora Schedule

| DRF | Number of Taxa |
|--------------|----------------|
| CR | 26 |
| EN | 24 |
| VU | 20 |
| Total | 70 |
| Priority | |
| 1 | 50 |
| 2 | 62 |
| 3 | 125 |
| 4 | 61 |
| Total | 298 |

Table 2: Threatened Flora in the Avon-Mortlock District (Refer to Appendix 1)

4.2 Avon-Mortlock District Flora List - Changes 2008

Additions to list:

Arthropodium sp Yenyening (P 1)
Hypocalymma puniceum subsp. Cadoux (P1)
Grevillea endlicheriana subsp. Wongan Hills (P2)
Bossiaea atrata (P3)
Bossiaea concinna (P3)
Cryptandra beverlyensis (P3)
Daviesia smithiorum (P2)
Gompholobium wonganense ms (P3)

Deletions from list:

Pityrodia sp Dalwallinu (*Pityrodia bartlingii*) – formally P1

Changes in conservation rankings:

Calothamnus accedens (DRF to P4)
Goodenia arthrotricha (P2 to DRF)
Phebalium drummondii (P1 to P3)

Additions to list due to range extensions:

Acacia cochlocarpa subsp *cochlocarpa* (DRF)
Jacksonia pungens (DRF)
Hakea chromatropa (P1)
Millotia tenuifolia var. *laevis* (P2)
Frankenia drummondii (P3)

5. IMPLIMENTATION OF RECOVERY ACTIONS

5.1 Critically Endangered

Acacia cochlocarpa subsp. *cochlocarpa*

- Installed markers at new population – Goomalling.

Acacia cochlocarpa subsp. *velutinosa*

- 2 new populations surveyed in Dowerin.

Acacia subflexuosa subsp. *capillata*

- Planting of translocation at Charles Gardner NR, 22 seedlings. Set-up reticulation system. Liaised with Shire of Tammin for water carting.
- Seed collection from population 1.

Acacia vassalii

- 3 new populations surveyed in Dowerin.
- Liaised with developer in Wongan Hills regarding application to take for population 6E.

Acacia volubilis

- Maintenance at translocation site (water, weed control and collection of plant measurement data).
- Liaised with Shire of Cunderdin Works Supervisor regarding populations along Harris Back road. Plants were marked to allow shire to re-gravel the road without causing damage to the plants.

Cyphanthera odgersii subsp. *occidentalis*

- Monitored 2007 recruitment burn, no seedlings recorded.

Daviesia cunderdin

- Maintenance at translocation site (water, weed control and collection of plant measurement data).
- Weed control at population 1.

Daviesia euphorbioides

- Rabbit control at Hindmarsh NR (translocation), 1080 oats.
- Monitored 2007 recruitment burns. 29 seedlings at Wongan Hills.
- Liaised with Shire of Goomalling works supervisor regarding population on Goomalling-Calingiri Rd (population 12). Application to take 1 dead plant. Soil surface will be graded to stimulate any soil-stored seed.
- Removed old fencing from recruitment burn sites at population 5.
- Re-stocked 10 seedlings at translocation site – Hindmarsh NR.
- Maintenance at translocation site (water, weed control and collection of plant measurement data).
- Weed control at population 7, Thornett road.
- Seed collection from Dowerin Rare Flora Garden.

Gastrolobium glaucum

- 2 new population surveyed in the Shire of Wongan-Ballidu.
- Liaised with Shire of Wongan-Ballidu regarding population on Craig Rd and associated road works.

Gastrolobium hamulosum

- Liaised with Shire of Wongan-Ballidu regarding population on Craig Rd and associated road works.

Grevillea dryandroides subsp. *dryandroides*

- Translocation planted at Ballidu, 103 seedlings planted. Fencing and irrigation installed.

Guichenotia seorsiflora

- Collected specimen for District herbarium.

Jacksonia pungens

- Surveyed population 12B, property of T. Reynolds. Delivered notification letter.

Lysiosepalum abollatum

- Early stages of translocation proposal. Site selection and proposal draft in conjunction with Science Division.

Pityrodia axillaris

- 1 new population surveyed in the Shire of Dalwallinu.

Pityrodia scabra

- 4 recruitments burns at subpopulation 1B and population 14 on 20 May 2008 with rabbit proof netting erected. Monitoring of sites conducted during the year with a total of 34 seedlings surviving from 2007 burns. Recruitment of 23 seedlings recorded from 2008 burns.

5.2 Endangered

Acacia ataxiphylla subsp. *magna*

- 1 new population surveyed in the Shire of Quairading.

Acacia pygmaea

- Monitoring of populations in Wongan Hills.

Daviesia dielsii

- 1 new population surveyed in the Shire of Moora (near Dalwallinu Shire boundary).

Eremophila resinosa

- 1 new population surveyed in the Shire of Koorda.

Glyceria drummondii

- Monitored population at Beverley.

Jacksonia quairading

- 1 new population surveyed in Quairading.

Melaleuca sciotostyla

- 2 new populations surveyed in Dowerin and Tammin.

Philotheca wonganensis

- 1 new population surveyed in Wongan Hills.

Stylidium coroniforme subsp. *coroniforme*

- 1 new population surveyed on private property at Wongan Hills.

Verticordia hughanii

- Rabbit control at Hindmarsh NR, 1080 oats.

5.3 Vulnerable

Acacia aphylla

- 2 recruitment burns and fencing of 2 populations at Northam Firing Range in conjunction with Department of Defence.
- Monitoring of recruitment burns with over 200 seedlings initially recorded.

Acacia caesariata

- Monitored populations at Bungulla North NR and adjoining road verge.

Banksia serratuloides subsp. *serratuloides*

- Monitored population 8, Great Northern Highway. Liaised with Main Roads regarding population and road upgrade works in area.

Calectasia pignattiana

- Monitored population at Quairading.

Eleocharis keigheryi

- Monitoring population at Beverley.

Frankenia conferta

- 2 new populations surveyed in the Shire of Dalwallinu. Liaised with landholder regarding 1 new population.
- Monitored population at Cowcowing Lakes.

Grevillea dryandroides subsp. *hirsuta*

- Rabbit control at Hindmarsh NR, 1080 oats.
- Collected seed at Cadoux populations.
- Liaised with Shire of Wongan-Ballidu Works Supervisor regarding Cadoux population at proposed road works.

Lechenaultia laricina

- Survey of subpopulation 2a, b and translocation (November 07) and population 8 (December 07).
- RF markers replaced at subpopulation 2b.
- Liaison with York shire council regarding relocation of spoon drain to reduce threat to verge plants.
- Specimens collected for District and Perth herbarium.

Microcorys eremophiloides

- 1 new population surveyed on private property in Wongan Hills.

5.4 Priority One*Acacia* sp. Manmanning

- 2 new populations surveyed in Dowerin.

Acacia trinalis

- 1 new population surveyed in Goomalling.

Eucalyptus subangusta subsp. *virescens*

- Surveyed 1 new population in the Shire of Dowerin.

Guichenotia glandulosa

- 1 new population surveyed in Dowerin.

5.5 Priority Two*Acacia drewiana* subsp. *minor*

- 1 new population surveyed in Wongan-Ballidu.

Acacia dura

- 1 new population surveyed in Wongan Hills.

Daviesia smithiorum

- 2 new populations surveyed in Dowerin.

Grevillea endlicheriana subsp. Wongan Hills

- 1 new population surveyed in Wongan-Ballidu.

Millotia tenuifolia var. *laevis*

- 1 new population surveyed in Goomalling.

5.6 Priority Three*Acacia campylophylla*

- 1 new population surveyed in Dowerin.

Bossiaea atrata

- 1 new population surveyed in Dowerin.

Boronia ericifolia

- 1 new population surveyed in Wongan Hills.

Cryptandra dielsii

- 1 new population surveyed in Dowerin.

Hopkinsia anoectocolea

- 1 new population surveyed in Tammin.

Lepidobolus densus

- 1 new population surveyed in Goomalling.

Leucopogon sp. Bungulla

- 4 new populations surveyed in Dowerin and Wongan Hills.

Melaleuca sclerophylla

- 1 new population surveyed in Dowerin.

Phebalium brachycalyx

- 1 population surveyed in Wongan Hills.

Phebalium drummondii

- 4 new populations surveyed in Dowerin.

5.7 Priority Four

Daviesia oxylobium

- 2 new populations surveyed in Tammin.

Loxocarya albipes

- 1 populations surveyed in Wongan Hills.

6. TRANSLOCATIONS

Acacia subflexuosa subsp. *capillata*

- Planting of translocation at Charles Gardner NR, 22 seedlings. Set-up reticulation system. Liaised with Shire of Tammin for water carting.

Acacia volubilis and *Daviesia cunderdin*

- Maintenance at translocation site (water, weed control and collection of plant measurement data).

Daviesia euphorbioides

- Re-stocked 10 seedlings at translocation site – Hindmarsh NR.
- Maintenance at translocation site (water, weed control and collection of plant measurement data).

Grevillea dryandroides subsp. *dryandroides*

- Translocation planted at Ballidu, 103 seedlings planted. Fencing and irrigation installed.

7. INDUCED RECRUITMENT PRESCRIBED BURNS

Acacia aphylla

- 2 recruitment burns and fencing of 2 populations at Northam Firing Range in conjunction with Department of Defence.

Cyphanthera odgersii subsp. *occidentalis*

- Monitored 2007 recruitment burn, no seedlings recorded.

Daviesia euphorbioides

- Monitored 2007 recruitment burns. 29 seedlings at Wongan Hills.

Pityrodia scabra

- 4 recruitments burns at subpopulation 1B and population 14 on 20 May 2008 with rabbit proof netting erected. Monitoring of sites conducted during the year with a total of 34 seedlings surviving from 2007 burns. Recruitment of 23 seedlings recorded from 2008 burns.

8. APPLICATION TO TAKE RARE FLORA

The following species have had applications to take completed in 2008:

Acacia aphylla

- Approval to take dead plants at Northam Firing Range for recruitment burn – DEC internal operations.

Acacia vassalii

- Liaised with developer in Wongan Hills regarding application to take for population 6E.

Pityrodia scabra

- Approval to take dead plants at Cowcowing and Koorda for recruitment burn – DEC internal operations.

9. EDUCATION AND PUBLICITY

The following activities have taken place in order to increase community awareness of threatened flora within the Avon Mortlock district:

- Rare flora training conducted at the Shire of Goomalling.

- Production of book 'Threatened Flora of the Western Central Wheatbelt', to be launched by June 2009.
- Rare flora and Back from the Edge project display at the 2008 Dowerin Field Days. Threatened flora and fauna posters, brochure and postcards on display.
- 3 issues of the Avon Mortlock 'Rarity' newsletter produced and distributed to Recovery team members and shires.
- Contribution of rare flora information and photos for the 2008 Community Landcare Calender.
- 2 articles in WATSCU newsletter on threatened flora management in the district

10. DISTRICT THREATENED FLORA HERBARIUM

Currently 747 specimens have been formally processed at the Perth herbarium with duplicates at Avon Mortlock District and Wongan Hills regional herbariums.

11. THREATENED ECOLOGICAL COMMUNITIES

Banksia prionotes and *Xylomelum angustifolium* low woodlands on transported yellow sands

- Nominated as Vulnerable, currently P1 11 occurrences
- March 2008 installation of monitoring bores
- June 2008 fencing of occurrences (Joel Collins)
- Nov 2008 survey of known and possible new occurrences

Avon Pools

- Invertebrate and water quality survey of the deep pools of the Avon and Dale Rivers surveyed twice a year.
- Threatened Ecological Community to be described and nominated

Mortlock Flats

- Nominated as Endangered currently P1, 7 Occurrences
- Spring Vegetation survey of occurrences along the Mortlock Flats and improve mapping
- Continue hydrological monitoring

12. CONCLUSION

The increase in flora conservation staff in the Region has meant that the Conservation Officers have been able to implement a much larger number of recovery actions for a wide range of DRF and Priority flora species in the Avon-Mortlock district.

The DEC Avon-Mortlock district recovery team members would like to thank all the agencies, local community members and other DEC staff who have contributed to the implementation of recovery actions within the DEC Avon-Mortlock District throughout 2008.

Appendix 1: Threatened Flora List Avon-Mortlock 2008

| Critically Endangered |
|--|
| <i>Acacia cochlocarpa</i> subsp. <i>cochlocarpa</i> |
| <i>Acacia cochlocarpa</i> subsp. <i>velutinos</i> |
| <i>Acacia pharangites</i> |
| <i>Acacia subflexuosa</i> subsp. <i>capillata</i> |
| <i>Acacia vassalii</i> |
| <i>Acacia volubilis</i> |
| <i>Caladenia drakeoides</i> |
| <i>Cyphanthera odgersii</i> subsp. <i>occidentalis</i> |
| <i>Darwinia carnea</i> |
| <i>Daviesia cunderdin</i> |
| <i>Daviesia euphorbioides</i> |
| <i>Eremophila pinnatifida</i> |
| <i>Gastrolobium glaucum</i> |
| <i>Gastrolobium hamulosum</i> |
| <i>Grevillea dryandroides</i> subsp. <i>dryandroides</i> |
| <i>Grevillea pythara</i> |
| <i>Guichenotia seorsiflora</i> ms |
| <i>Gyrostemon reticulatus</i> |
| <i>Haloragis platycarpa</i> |
| <i>Hemiandra rutilans</i> |
| <i>Jacksonia pungens</i> |
| <i>Lysiosepalum abollatum</i> ms |
| <i>Pityrodia axillaris</i> |
| <i>Pityrodia scabra</i> |
| <i>Thomasia</i> sp. Green Hill (Paust 1322) |
| <i>Verticordia staminosa</i> subsp. <i>staminosa</i> |

| Endangered Taxa |
|--|
| <i>Acacia ataxiphylla</i> subsp. <i>magna</i> |
| <i>Acacia chapmanii</i> subsp. <i>australis</i> |
| <i>Acacia pygmaea</i> |
| <i>Banksia cuneata</i> |
| <i>Conospermum densiflorum</i> subsp. <i>unicephalatum</i> |
| <i>Conostylis wonganensis</i> |
| <i>Darwinia acerosa</i> |
| <i>Daviesia dielsii</i> |
| <i>Eremophila resinosa</i> |
| <i>Eremophila viscida</i> |
| <i>Eucalyptus pruiniramis</i> |
| <i>Frankenia parvula</i> |
| <i>Goodenia arthrotricha</i> |
| <i>Glyceria drummondii</i> |
| <i>Grevillea bracteosa</i> subsp. <i>bracteosa</i> |
| <i>Grevillea christineae</i> |
| <i>Hakea aculeata</i> |
| <i>Jacksonia quairading</i> ms |
| <i>Melaleuca sciotostyla</i> |
| <i>Philotheca wonganensis</i> |
| <i>Ptilotus fasciculatus</i> |
| <i>Spirogardnera rubescens</i> |
| <i>Stylidium coroniforme</i> subsp. <i>coroniforme</i> |
| <i>Verticordia hughanii</i> |

| |
|--|
| Vulnerable Taxa |
| <i>Acacia aphylla</i> |
| <i>Acacia brachypoda</i> |
| <i>Acacia denticulosa</i> |
| <i>Allocasuarina fibrosa</i> |
| <i>Banksia mimica</i> |
| <i>Banksia serratuloides</i> subsp. <i>serratuloides</i> |
| <i>Calectasia pignattiana</i> |
| <i>Eleocharis keigheryi</i> |
| <i>Eremophila ternifolia</i> |
| <i>Eremophila vernicosa</i> |
| <i>Eucalyptus recta</i> |
| <i>Eucalyptus synandra</i> |
| <i>Frankenia conferta</i> |
| <i>Grevillea dryandroides</i> subsp. <i>hirsuta</i> |
| <i>Lechenaultia laricina</i> |
| <i>Microcorys eremophiloides</i> |
| <i>Rhagodia acicularis</i> |
| <i>Roycea pycnophylloides</i> |
| <i>Thomasia glabripetala</i> |
| <i>Thomasia montana</i> |

Priority Flora

Priority One Taxa

| | | | |
|-----------------------|--|--------|---------------------|
| <i>Acacia</i> | <i>inceana</i> | subsp. | <i>latifolia</i> |
| <i>Acacia</i> | <i>nigripilosa</i> | subsp. | <i>latifolia</i> |
| <i>Acacia</i> | sp. Goodlands (B.R. Maslin 7761) | | |
| <i>Acacia</i> | sp. Kalannie North (B.R. Maslin 7702) | | |
| <i>Acacia</i> | sp. Kalannie North East (BR Maslin 7519) [aff. <i>rigens</i>] | | |
| <i>Acacia</i> | sp. Manmanning (B.R. Maslin 7711) | | |
| <i>Acacia</i> | sp. Petrudor Rocks (B.R. Maslin 7714) | | |
| <i>Acacia</i> | <i>stanleyi</i> | | |
| <i>Acacia</i> | <i>torticarpa</i> | | |
| <i>Acacia</i> | <i>trinalis</i> | | |
| <i>Arthropodium</i> | sp. Yenyening Lakes (G.J Keighery & N. Gibson) | | |
| <i>Baeckea</i> | sp. Beringbooding (AR Main 11/9/1957) | | |
| <i>Baeckea</i> | sp. Koorda (W.E. Blackall 3371) | | |
| <i>Baeckea</i> | sp. Younegin Hill (A.S. George 15772) | | |
| <i>Baeckea</i> | Upper Swan (Miss M Eaton s.n. 1888) | | |
| <i>Caladenia</i> | <i>x ornata</i> | | |
| <i>Calandrinia</i> | sp. Piawaning (A.C. Beauglehole 12257) | | |
| <i>Conospermum</i> | <i>galeatum</i> | | |
| <i>Conostylis</i> | <i>caricina</i> | subsp. | <i>elachys</i> |
| <i>Dampiera</i> | <i>glabrescens</i> | | |
| <i>Darwinia</i> | sp. Wyalgima Hill (L.W. Sage, J.P. Pigott & E.B. Pigott LW) | | |
| <i>Eremophila</i> | <i>glabra</i> | subsp. | <i>chlorella</i> |
| <i>Eucalyptus</i> | <i>subangusta</i> | subsp. | <i>virescens</i> |
| <i>Frankenia</i> | <i>bracteata</i> | | |
| <i>Gastrolobium</i> | <i>rotundifolium</i> | | |
| <i>Gnephosis</i> | <i>setifera</i> | | |
| <i>Grevillea</i> | <i>minutiflora</i> | | |
| <i>Grevillea</i> | <i>pinifolia</i> | | |
| <i>Guichenotia</i> | <i>glandulosa</i> | | |
| <i>Hakea</i> | <i>chromatropa</i> | | |
| <i>Hydrocotyle</i> | <i>corynophora</i> | | |
| <i>Hypocalymma</i> | <i>puniceum</i> | subsp. | Cadoux |
| <i>Lechenaultia</i> | <i>magnifica</i> | | |
| <i>Melaleuca</i> | <i>barlowii</i> | | |
| <i>Melaleuca</i> | <i>grieveana</i> | | |
| <i>Melaleuca</i> | <i>manglesii</i> | | |
| <i>Micromyrtus</i> | <i>redita</i> | | |
| <i>Paraparmelia</i> | <i>sargentii</i> | | |
| <i>Philothea</i> | <i>nutans</i> | | |
| <i>Ptilotus</i> | <i>stirlingii</i> | var. | <i>pumilus</i> |
| <i>Scaevola</i> | <i>tortuosa</i> | | |
| <i>Schoenus</i> | <i>pennisetis</i> | | |
| <i>Scholtzia</i> | <i>eatoniana</i> | | |
| <i>Senecio</i> | <i>gilbertii</i> | | |
| <i>Stylidium</i> | <i>coroniforme</i> | subsp. | <i>amblyphyllum</i> |
| <i>Synaphea</i> | <i>panhesya</i> | | |
| <i>Thomasia</i> | sp. New Norcia (Cayser s.n. Nov. 1918) | | |
| <i>Urodon</i> | sp. Narkal (B.H. Smith 1440) | | |
| <i>Verticordia</i> | <i>roei</i> | subsp. | <i>meiogona</i> |
| <i>Xanthoparmelia</i> | <i>subimitatrix</i> | | |

| Priority Two Taxa | | | |
|---------------------|--|--------|--------------------|
| <i>Acacia</i> | <i>arcuatis</i> | | |
| <i>Acacia</i> | <i>browniana</i> | var. | <i>glaucescens</i> |
| <i>Acacia</i> | <i>congesta</i> | subsp. | <i>wonganensis</i> |
| <i>Acacia</i> | <i>drewiana</i> | subsp. | <i>minor</i> |
| <i>Acacia</i> | <i>dura</i> | | |
| <i>Acacia</i> | <i>lirellata</i> | subsp. | <i>compressa</i> |
| <i>Acacia</i> | <i>sclerophylla</i> | var. | <i>pilosa</i> |
| <i>Acacia</i> | <i>subrigida</i> | | |
| <i>Acacia</i> | <i>synoria</i> | | |
| <i>Acacia</i> | <i>vittata</i> | | |
| <i>Aluta</i> | <i>aspera</i> | subsp. | <i>localis</i> |
| <i>Amperea</i> | <i>micrantha</i> | | |
| <i>Andersonia</i> | <i>carinata</i> | | |
| <i>Baeckea</i> | sp. Calingiri (F. Hort 1710) | | |
| <i>Banksia</i> | <i>dallanneyi</i> | subsp. | <i>agricola</i> |
| <i>Banksia</i> | <i>splendida</i> | subsp. | <i>splendida</i> |
| <i>Boronia</i> | <i>ericifolia</i> | | |
| <i>Calandrinia</i> | <i>kalanniensis</i> | | |
| <i>Calytrix</i> | <i>oncophylla</i> | | |
| <i>Calytrix</i> | <i>parvivallis</i> | | |
| <i>Calytrix</i> | sp. Jingaring | | |
| <i>Chamelaucium</i> | <i>croxfordiae</i> | | |
| <i>Comesperma</i> | <i>griffinii</i> | | |
| <i>Cyanicula</i> | <i>ixioides</i> | subsp. | <i>candida</i> |
| <i>Darwinia</i> | sp. Westdale (F. Hort 864) | | |
| <i>Daviesia</i> | <i>smithiorum</i> | | |
| <i>Eremophila</i> | <i>sargentii</i> | | |
| <i>Fitzwillia</i> | <i>axilliflora</i> | | |
| <i>Gastrolobium</i> | <i>wonganense</i> | | |
| <i>Grevillea</i> | <i>endlicheriana</i> | subsp. | Wongan Hills |
| <i>Grevillea</i> | <i>kenneallyi</i> | | |
| <i>Grevillea</i> | <i>nana</i> | subsp. | <i>abbreviata</i> |
| <i>Grevillea</i> | <i>rosieri</i> | | |
| <i>Hyalosperma</i> | <i>stoveae</i> | | |
| <i>Jacksonia</i> | <i>rubra</i> | | |
| <i>Lasiopetalum</i> | sp. Northam (F. Hort 1196) | | |
| <i>Lechenaultia</i> | <i>hortii</i> | | |
| <i>Lepidium</i> | <i>genistoides</i> | | |
| <i>Leucopogon</i> | <i>amplectens</i> | | |
| <i>Leucopogon</i> | <i>cymbiformis</i> | | |
| <i>Leucopogon</i> | sp. Bungulla (R.D. Royce 3435) | | |
| <i>Leucopogon</i> | sp. Flynn (F. Hort, J. Hort & A. Lowrie 859) | | |
| <i>Melaleuca</i> | <i>oldfieldii</i> | | |
| <i>Microcorys</i> | <i>lenticularis</i> | | |
| <i>Millotia</i> | <i>pilosa</i> | | |
| <i>Millotia</i> | <i>tenuifolia</i> | var. | <i>laevis</i> |
| <i>Opercularia</i> | <i>rubroides</i> | | |
| <i>Petrophile</i> | <i>clavata</i> | | |
| <i>Podotheca</i> | <i>pritzelii</i> | | |
| <i>Schoenus</i> | <i>capillifolius</i> | | |
| <i>Schoenus</i> | <i>griffinianus</i> | | |
| <i>Scholtzia</i> | sp. Gunyidi (J.D. Briggs 1721) | | |

| | | | |
|---------------------|---|--|--|
| <i>Stenanthemum</i> | <i>grandiflorum</i> | | |
| <i>Stylidium</i> | <i>pseudosacculatum</i> | | |
| <i>Synaphea</i> | <i>boyaginensis</i> | | |
| <i>Synaphea</i> | <i>rangiferops</i> | | |
| <i>Synaphea</i> | <i>sparsiflora</i> | | |
| <i>Synaphea</i> | <i>tamminensis</i> | | |
| <i>Synaphea</i> | <i>tripartita</i> | | |
| <i>Trichocline</i> | sp. Treeton (B.J. Keighery & N. Gibson 564) | | |
| <i>Tricoryne</i> | sp. Wongan Hills (B.H. Smith 794) | | |
| <i>Verticordia</i> | <i>wonganensis</i> | | |

| Priority Three Taxa | | | |
|----------------------------|-----------------------|--------|--|
| <i>Acacia</i> | <i>anarthros</i> | | |
| <i>Acacia</i> | <i>ancistrophylla</i> | var. | <i>perarcuata</i> |
| <i>Acacia</i> | <i>campylophylla</i> | | |
| <i>Acacia</i> | <i>cummingiana</i> | | |
| <i>Acacia</i> | <i>cylindrica</i> | | |
| <i>Acacia</i> | <i>deflexa</i> | | |
| <i>Acacia</i> | <i>dissona</i> | var. | <i>indoloria</i> |
| <i>Acacia</i> | <i>drummondii</i> | subsp. | <i>affinis</i> |
| <i>Acacia</i> | <i>eremophila</i> | var. | <i>variabilis</i> |
| <i>Acacia</i> | <i>filifolia</i> | | |
| <i>Acacia</i> | <i>horridula</i> | | |
| <i>Acacia</i> | <i>inophloia</i> | | |
| <i>Acacia</i> | <i>insolita</i> | subsp. | <i>efoliolata</i> |
| <i>Acacia</i> | <i>isoneura</i> | subsp. | <i>nimia</i> |
| <i>Acacia</i> | <i>lirellata</i> | subsp. | <i>lirellata</i> |
| <i>Acacia</i> | <i>oncinophylla</i> | subsp. | <i>oncinophylla</i> |
| <i>Acacia</i> | <i>phaeocalyx</i> | | |
| <i>Acacia</i> | <i>pulchella</i> | var. | reflexa acuminate bracteole variant (R.J. Cummin |
| <i>Acacia</i> | <i>repanda</i> | | |
| <i>Acacia</i> | <i>ridleyana</i> | | |
| <i>Acacia</i> | <i>scalena</i> | | |
| <i>Acacia</i> | <i>undosa</i> | | |
| <i>Adenanthos</i> | <i>cygnorum</i> | subsp. | <i>chamaephyton</i> |
| <i>Allocasuarina</i> | <i>grevilleoides</i> | | |
| <i>Andersonia</i> | <i>saxatilis</i> | | |
| <i>Angianthus</i> | <i>micropodioides</i> | | |
| <i>Anigozanthos</i> | <i>bicolor</i> | subsp. | <i>exstans</i> |
| <i>Arnocrinum</i> | <i>drummondii</i> | | |
| <i>Austrostipa</i> | <i>blackii</i> | | |
| <i>Baeckea</i> | sp. Tammin | | |
| <i>Banksia</i> | <i>dallanneyi</i> | subsp. | <i>pollostata</i> |
| <i>Banksia</i> | <i>horrida</i> | | |
| <i>Banksia</i> | <i>kippistiana</i> | var. | <i>paenepeccata</i> |
| <i>Banksia</i> | <i>pteridifolia</i> | subsp. | <i>vernalis</i> |
| <i>Beaufortia</i> | <i>eriocephala</i> | | |
| <i>Blennospora</i> | <i>phlegmatocarpa</i> | | |
| <i>Boronia</i> | <i>penicillata</i> | | |
| <i>Bossiaea</i> | <i>atrata</i> | | |

| | | | |
|---------------------|--------------------------------|--------|----------------------|
| <i>Bossiaea</i> | <i>concinna</i> | | |
| <i>Brachyloma</i> | <i>mogin</i> | | |
| <i>Calytrix</i> | <i>nematoclada</i> | | |
| <i>Calytrix</i> | <i>plumulosa</i> | | |
| <i>Chamaescilla</i> | <i>gibsonii</i> | | |
| <i>Chamelaucium</i> | <i>conostigmum</i> | | |
| <i>Comesperma</i> | <i>acerosum</i> | | |
| <i>Conospermum</i> | <i>eatoniae</i> | | |
| <i>Conospermum</i> | <i>scaposum</i> | | |
| <i>Cryptandra</i> | <i>beverlyensis</i> | | |
| <i>Cryptandra</i> | <i>dielsii</i> | | |
| <i>Cryptandra</i> | <i>polyclada</i> | subsp. | <i>polyclada</i> |
| <i>Daviesia</i> | <i>debilior</i> | subsp. | <i>sinuans</i> |
| <i>Daviesia</i> | <i>epiphyllum</i> | | |
| <i>Daviesia</i> | <i>uncinata</i> | | |
| <i>Daviesia</i> | <i>uncinata</i> | | |
| <i>Dicrastylis</i> | <i>corymbosa</i> | | |
| <i>Dicrastylis</i> | <i>reticulata</i> | | |
| <i>Dicrastylis</i> | <i>velutina</i> | | |
| <i>Eucalyptus</i> | <i>macrocarpa x pyriformis</i> | | |
| <i>Eucalyptus</i> | <i>sargentii</i> | subsp. | <i>onesia</i> |
| <i>Eucalyptus</i> | <i>sargentii</i> | subsp. | <i>onesia</i> |
| <i>Eucalyptus</i> | <i>spathulata</i> | subsp. | <i>salina</i> |
| <i>Euryomyrtus</i> | <i>recurva</i> | | |
| <i>Frankenia</i> | <i>drummondii</i> | | |
| <i>Frankenia</i> | <i>glomerata</i> | | |
| <i>Gastrolobium</i> | <i>alternifolium</i> | | |
| <i>Gastrolobium</i> | <i>axillare</i> | | |
| <i>Gastrolobium</i> | <i>spectabile</i> | | |
| <i>Gompholobium</i> | <i>cinereum</i> | | |
| <i>Gompholobium</i> | <i>wonganense</i> | | |
| <i>Goodenia</i> | <i>perryi</i> | | |
| <i>Goodenia</i> | <i>trichophylla</i> | | |
| <i>Grevillea</i> | <i>asparagoides</i> | | |
| <i>Grevillea</i> | <i>candicans</i> | | |
| <i>Grevillea</i> | <i>eribotrya</i> | | |
| <i>Grevillea</i> | <i>florida</i> | | |
| <i>Grevillea</i> | <i>granulosa</i> | | |
| <i>Grevillea</i> | <i>haplantha</i> | subsp. | <i>recedens</i> |
| <i>Grevillea</i> | <i>manglesii</i> | subsp. | <i>dissectifolia</i> |
| <i>Grevillea</i> | <i>roycei</i> | | |
| <i>Grevillea</i> | <i>tenuiloba</i> | | |
| <i>Guichenotia</i> | <i>impudica</i> | | |
| <i>Guichenotia</i> | <i>tuberculata</i> | | |
| <i>Gunniopsis</i> | <i>rubra</i> | | |
| <i>Hemiandra</i> | <i>coccinea</i> | | |
| <i>Hibbertia</i> | <i>glomerata</i> | subsp. | <i>wandoo</i> |
| <i>Hopkinsia</i> | <i>anoectocolea</i> | | |
| <i>Lechenaultia</i> | sp. Kokardine (B.H. Smith 177) | | |
| <i>Lepidobolus</i> | <i>densus</i> | | |
| <i>Levenhookia</i> | <i>octomaculata</i> | | |
| <i>Melaleuca</i> | <i>sclerophylla</i> | | |

| | | | |
|-------------------------|-----------------------|--------|--------------------|
| <i>Microcorys</i> | <i>tenuifolia</i> | | |
| <i>Mimulus</i> | <i>repens</i> | | |
| <i>Monotoca</i> | <i>leucantha</i> | | |
| <i>Myriocephalus</i> | <i>appendiculatus</i> | | |
| <i>Persoonia</i> | <i>chapmaniana</i> | | |
| <i>Persoonia</i> | <i>pungens</i> | | |
| <i>Persoonia</i> | <i>rudis</i> | | |
| <i>Petrophile</i> | <i>biternata</i> | | |
| <i>Petrophile</i> | <i>plumosa</i> | | |
| <i>Phebalium</i> | <i>brachycalyx</i> | | |
| <i>Phebalium</i> | <i>drummondii</i> | | |
| <i>Phlegmatospermum</i> | <i>drummondii</i> | | |
| <i>Podotheca</i> | <i>uniseta</i> | | |
| <i>Prostanthera</i> | <i>nanophylla</i> | | |
| <i>Psammomoya</i> | <i>implexa</i> | | |
| <i>Sarcocornia</i> | <i>globosa</i> | | |
| <i>Schoenus</i> | <i>benthamii</i> | | |
| <i>Stylidium</i> | <i>cymiferum</i> | | |
| <i>Stylidium</i> | <i>longitubum</i> | | |
| <i>Stylidium</i> | <i>sacculatum</i> | | |
| <i>Synaphea</i> | <i>constricta</i> | | |
| <i>Tetratheca</i> | <i>pilifera</i> | | |
| <i>Tetratheca</i> | <i>retrorsa</i> | | |
| <i>Tetratheca</i> | <i>similis</i> | | |
| <i>Thomasia</i> | <i>tenuivestita</i> | | |
| <i>Thysanotus</i> | <i>tenuis</i> | | |
| <i>Triglochin</i> | <i>stowardii</i> | | |
| <i>Urodon</i> | <i>capitatus</i> | | |
| <i>Verticordia</i> | <i>huegelii</i> | var. | <i>tridens</i> |
| <i>Verticordia</i> | <i>insignis</i> | subsp. | <i>eomagis</i> |
| <i>Verticordia</i> | <i>muelleriana</i> | subsp. | <i>muelleriana</i> |
| <i>Verticordia</i> | <i>rutilastra</i> | | |
| <i>Verticordia</i> | <i>serrata</i> | var. | <i>linearis</i> |
| <i>Verticordia</i> | <i>venusta</i> | | |
| <i>Xanthoparmelia</i> | <i>hypoleiella</i> | | |

Priority Four Taxa

| | | | |
|---------------------|--------------------------------|--------|--------------------|
| <i>Acacia</i> | <i>alata</i> | var. | <i>platyptera</i> |
| <i>Acacia</i> | <i>botrydion</i> | | |
| <i>Acacia</i> | <i>cuneifolia</i> | | |
| <i>Acacia</i> | <i>semicircularis</i> | | |
| <i>Anigozanthos</i> | <i>humilis</i> | subsp. | <i>chrysanthus</i> |
| <i>Asterolasia</i> | <i>grandiflora</i> | | |
| <i>Astroloma</i> | sp. Cataby (E.A. Griffin 1022) | | |
| <i>Banksia</i> | <i>bella</i> | | |
| <i>Banksia</i> | <i>benthamiana</i> | | |
| <i>Banksia</i> | <i>chamaephyton</i> | | |
| <i>Banksia</i> | <i>comosa</i> | | |
| <i>Banksia</i> | <i>insulanemorecincta</i> | | |
| <i>Banksia</i> | <i>platycarpa</i> | | |
| <i>Banksia</i> | <i>shanklandiorum</i> | | |

| | | | |
|---------------------|--|--------|----------------------|
| <i>Banksia</i> | <i>wonganensis</i> | | |
| <i>Boronia</i> | <i>tenuis</i> | | |
| <i>Caladenia</i> | <i>cristata</i> | | |
| <i>Caladenia</i> | <i>integra</i> | | |
| <i>Calothamnus</i> | <i>accedens</i> | | |
| <i>Calothamnus</i> | <i>brevifolius</i> | | |
| <i>Calothamnus</i> | <i>pachystachyus</i> | | |
| <i>Calothamnus</i> | <i>rupestris</i> | | |
| <i>Calytrix</i> | <i>sylvana</i> | | |
| <i>Centrolepis</i> | <i>caespitosa</i> | | |
| <i>Chordifex</i> | <i>chaunocoleus</i> | | |
| <i>Cyanicula</i> | <i>ixioides</i> | subsp. | <i>ixioides</i> |
| <i>Darwinia</i> | sp. <i>Dryandra</i> (G.J. Keighery 9295) | | |
| <i>Darwinia</i> | <i>thymoides</i> | subsp. | <i>bella</i> |
| <i>Daviesia</i> | <i>oxylobium</i> | | |
| <i>Daviesia</i> | <i>purpurascens</i> | | |
| <i>Daviesia</i> | <i>spiralis</i> | | |
| <i>Diuris</i> | <i>recurva</i> | | |
| <i>Eremaea</i> | <i>blackwelliana</i> | | |
| <i>Eucalyptus</i> | <i>caesia</i> | subsp. | <i>caesia</i> |
| <i>Eucalyptus</i> | <i>exilis</i> | | |
| <i>Eucalyptus</i> | <i>latens</i> | | |
| <i>Eucalyptus</i> | <i>loxophleba</i> x <i>wandoo</i> | | |
| <i>Eucalyptus</i> | x <i>carnabyi</i> | | |
| <i>Gastrolobium</i> | <i>callistachys</i> | | |
| <i>Gonocarpus</i> | <i>intricatus</i> | | |
| <i>Grevillea</i> | <i>drummondii</i> | | |
| <i>Grevillea</i> | <i>pimeleoides</i> | | |
| <i>Hemiandra</i> | <i>hancocksiana</i> | | |
| <i>Hemigenia</i> | <i>conferta</i> | | |
| <i>Hemigenia</i> | <i>platyphylla</i> | | |
| <i>Hibbertia</i> | <i>miniata</i> | | |
| <i>Hibbertia</i> | <i>montana</i> | | |
| <i>Hydrocotyle</i> | <i>lemnoides</i> | | |
| <i>Lechenaultia</i> | <i>pulvinaris</i> | | |
| <i>Lepidium</i> | <i>pseudotasmanicum</i> | | |
| <i>Loxocarya</i> | <i>albipes</i> | | |
| <i>Microtis</i> | <i>media</i> | subsp. | <i>quadrata</i> |
| <i>Persoonia</i> | <i>sulcata</i> | | |
| <i>Regelia</i> | <i>megacephala</i> | | |
| <i>Rumex</i> | <i>drummondii</i> | | |
| <i>Schoenus</i> | <i>natans</i> | | |
| <i>Stachystemon</i> | <i>axillaris</i> | | |
| <i>Stenanthemum</i> | <i>tridentatum</i> | | |
| <i>Stylidium</i> | <i>diuroides</i> | subsp. | <i>paucifoliatum</i> |
| <i>Stylidium</i> | <i>hortiorum</i> | | |
| <i>Stylidium</i> | <i>scabridum</i> | | |