

A Survey of Roadside Conservation Values in the Shire of Augusta-Margaret River and Roadside Management Guidelines



Populations of Declared Rare Flora such as *Darwinia ferricola*, pictured above, can be found along roadsides in the Shire of Augusta-Margaret River.

Photos – S. D. Hopper, WA Herbarium

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Roadside Conservation Committee



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1.0 INTRODUCTION

The Shire of Augusta-Margaret River is located 290 km south of Perth in Western Australia's Blackwood Region. The major agricultural pursuits and industries in the area are timber, viticulture, dairy, beef, sheep, horticulture and fishing. Tourism is also an important industry, with the area's spectacular natural resources, such as the Leeuwin lighthouse; Boranup forest; Flinders Bay; Ellensbrook homestead; Canebreak; Scott River National Park; Cowaramup Bay; Calgardup (Redgate); Kilcarnup; Leeuwin Naturaliste National Park; heritage walk trails and beaches. The Shire records approximately 1.5 million visitors annually, with 500,000 visiting the Augusta Margaret River Tourism Association.

The Shire of Augusta-Margaret River covers an area of 2,370 square kms, of which 998 square kms (42%) is State forest and National Park, and supports a population of approximately 10,500 people. The area experiences a mediterranean climate with an average annual rainfall of 1195 mm. Seasonal temperatures are characterised by warm summers, with maxima averaging from the mid to high twenties, and mild winters, with maxima in the mid teens. Mean daily maximum and minimum temperatures and rainfall statistics are shown below.

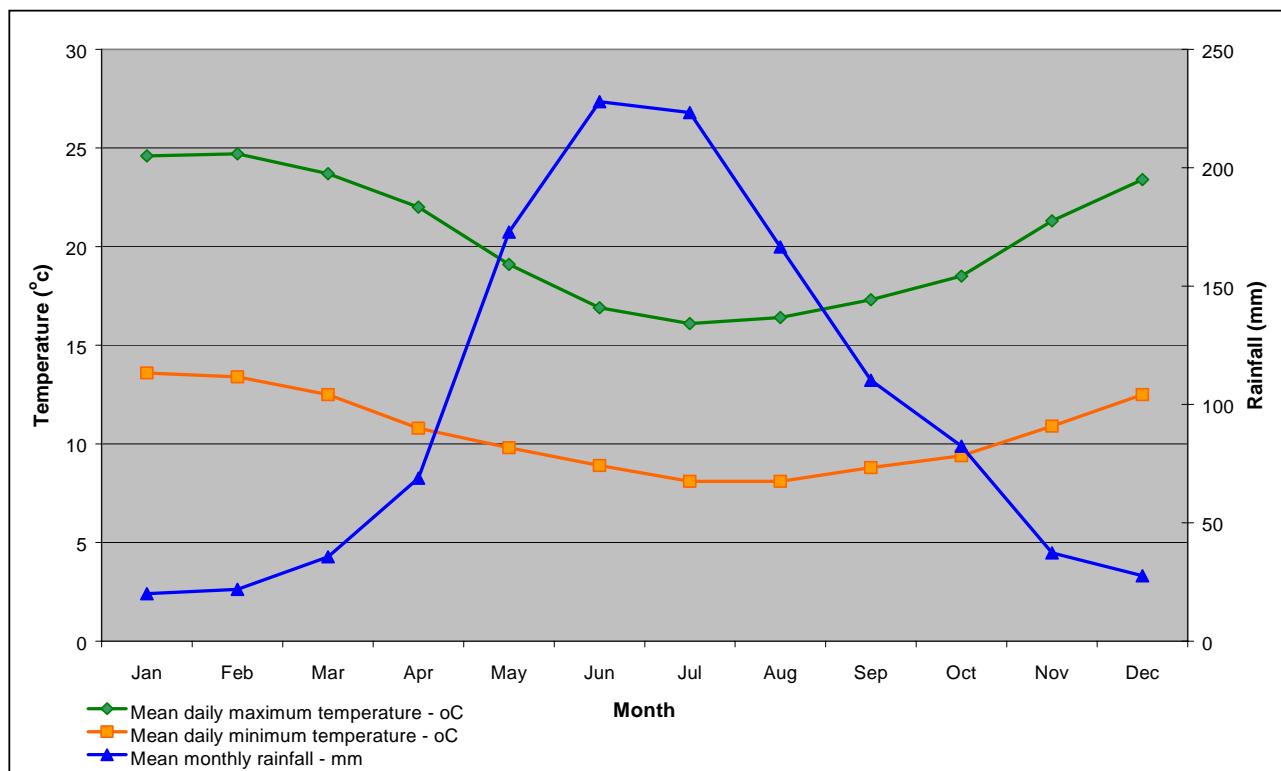


Figure 1 – Mean daily maximum and minimum temperature (°C) and rainfall (mm) in the Shire of Augusta-Margaret River, based on climate averages from the Karridale weather station 009560.

1.1 Flora and Fauna

The WA herbarium records more than 1300 different species of plants from the Shire of Augusta-Margaret River (see Appendix 4) and these include: 44 *Acacia* spp, 23 *Boronia* spp, 36 *Caladenia* spp, 22 *Drosera* spp, 30 *Hibbertia* spp, 30 *Leucopogon* spp, 18 *Pimelea* spp, and 49 *Stylidium* spp. There are 75 populations of declared rare flora (DRF) that occur within roadsides in the Shire, see section 4.2.

Threatened and priority fauna observed in the Shire of Augusta-Margaret River, based on information from the Department of Conservation and Land Management, indicates that 18 species have been recorded or sighted throughout the Shire.

These include:

- Kawaniphila pachomai (*Kawaniphila pachomai*)
- Black Bittern (*Ixobrychus flavicollis australis*)
- Hooded Plover (*Charadrius rubricollis*)
- Malleefowl (*Leipoa ocellata*)
- Crested Shrike-tit (*Falcunculus frontatus leucogaster*)
- Baudin's Black-Cockatoo (*Calyptorhynchus baudinii*)
- Forest Red-tailed Black-Cockatoo (*Calyptorhynchus banksii naso*)
- Water-rat (Rakali) (*Hydromys chrysogaster*)
- Western False Pipistrelle (*Falsistrellus mackenziei*)
- Black-stripe Minnow (*Galaxiella nigrostriata*)
- Chuditch (*Dasyurus geoffroii*)
- Brush-tailed Phascogale (*Phascogale tapoatafa*)
- Western Brush Wallaby (*Macropus irma*)
- Quenda (*Isoodon obesulus fusciventer*)
- Cape Leeuwin Freshwater Snail (*Austroassiminea lethra*)
- White-bellied Frog (*Geocrinia alba*)
- Orange-bellied Frog (*Geocrinia vitellina*)
- Carpet Python (*Morelia spilota imbricata*)



Water Rat

(Photo by the Department of Conservation and Land Management)



Red-tailed Black Cockatoo

(Photo by Bert and Babs Wells)

1.2 Remnant Vegetation Cover

The Shire of Augusta-Margaret River retains 71.7% of its original native vegetation, and these are located in a variety of tenures, from nature and crown reserves to privately owned bushland. Smaller, more isolated patches of remnant vegetation exist in the more heavily cleared areas such as Cowaramup East, Rosa Brook, Margaret River, Witchcliffe, and Augusta, resulting in a matrix of man-made and natural landscapes. Flora and fauna living in these isolated remnants require connectivity throughout the landscape to find nesting sites, food, shelter and to breed. As a consequence, the presence of native vegetation in transport corridors is of vital importance. The presence of bush corridors to connect these areas is paramount to the survival of our native flora and fauna. A comparison of remnant vegetation in Augusta-Margaret River and with surrounding Shires can be seen in Table 1.

Shire	Percentage of Vegetation Cover Remaining
Augusta-Margaret River	71.7%
Busselton	44.5%
Nannup	94.0%
Bridgetown-Greenbushes	67.9%
Donnybrook-Balingup	72.0%

Table 1. Remnant vegetation remaining in the Shire of Augusta-Margaret River and surrounding Shires.

The 33 broad vegetation associations known from the Shire of Augusta-Margaret River, noted in Table 2, provide an indication of the assemblages of native vegetation present prior to European settlement. It should be noted that these assemblages are indicative of the Shire per se and not specifically representative of roadside remnants.

National Objectives and Targets for Biodiversity Conservation 2001-2005 (Environment Australia, 2001) stated that vegetation associations represented by less than 30% remnant vegetation cover are considered ecologically endangered and in need of protection and restoration wherever they are located. There are 7 vegetation associations below or near the 30% target of vegetation coverage in the Shire of Augusta-Margaret River, see Table 2. National targets for biodiversity conservation (2001-2005) state the need to have protection measures in place for those vegetation associations that are below 30%. Vegetation associations with between 10-30% are considered vulnerable, between 30-50% are considered depleted (of the pre 1750 extent).

Vegetation Association	Description	% Remaining
1	Tall forest; karri (<i>Eucalyptus diversicolor</i>)	66.2
2	Tall Woodland; tuart (<i>E. gomphocephala</i>)	60.5
3	Medium forest; jarrah - marri	72.1
14	Low forest; jarrah	76.1
22	Low woodland; <i>Agonis flexuosa</i>	65.8
23	Low woodland; jarrah-banksia	67.2
27	Low woodland; paperbark (<i>Melaleuca sp.</i>)	66.1
37	Shrublands; tea-tree thicket	55.9
51	Sedgeland; reed swamps, occasionally with heath	51.7
949	Low woodland; banksia	82.6
965	Medium woodland; jarrah & marri	4.7
973	Low forest; paperbark (<i>Melaleuca rhaphiophylla</i>)	30.9
975	Low woodland; jarrah	76.3
990	Low forest; peppermint (<i>Agonis flexuosa</i>)	60.8
1000	Mosaic; Medium forest; jarrah-marri / Low woodland; banksia / Low	24.6
1002	Medium open woodland; jarrah	95.3
1008	Medium open woodland; marri	18.0
1009	Medium woodland; marri & river gum	30.4
1030	Low woodland; <i>Banksia attenuata</i> & <i>B. menziesii</i>	63.6
1034	Medium woodland; marri, wandoo & powderbark	60.8
1103	Shrublands; Acacia & lamarchea thicket	100.0
1104	Mosaic; Shrublands; scrub-heath / Shrublands; <i>Acacia rostellifera</i> & <i>Melaleuca</i>	96.1
1108	Shrublands; <i>Acacia decipiens</i>	66.6
1109	Shrublands; peppermint scrub, <i>Agonis flexuosa</i>	69.7
1132	Medium forest; marri	80.5
1136	Medium woodland; marri with some jarrah, wandoo, river gum and	8.8
1137	Shrublands; <i>Melaleuca incana</i>, <i>Hakea tuberculata</i>, <i>Viminaria juncea</i> scrub	27.9
1138	Low forest; jarrah & marri	62.6
1144	Tall forest; karri & marri (<i>Corymbus calophylla</i>)	69.7
1180	Shrublands; <i>Calothamnus quadrifidis</i> & <i>Hakea triflora</i> (Cape Naturaliste)	74.7
1181	Medium woodland; jarrah & <i>Eucalyptus haematoxylon</i> (Whicher Range)	45.3
1183	Medium woodland; <i>Eucalyptus rudis</i> & blackbutt with some bullrich, jarrah &	88.0
1185	Medium woodland; jarrah, marri & blackbutt	93.8

Table 2. Vegetation associations in the Shire of Augusta-Margaret River, and the percentage of original extent remaining throughout WA (Shepherd, Beeston and Hopkins, 2001).

2.0 VALUES OF ROADSIDES

Since the settlement of Western Australia by Europeans, large areas of native vegetation in the south west of the state have been cleared for agriculture, roads, settlements, and other development. The fragmentation of the more or less continuous expanse of native vegetation communities by clearing has resulted in the isolation of plant and animal populations which have become severely disadvantaged by becoming isolated within a mosaic of man-made biogeographical islands of small native vegetation remnants. These are typically unreliable for sustaining wildlife due to food shortages, disease and reduced genetic diversity caused by a diminishing gene pool. Nevertheless, the presence of native vegetation along roadsides can often assist in alleviating this isolation effect by providing connectivity between bush remnants, thereby facilitating the movement of biota across the landscape.

Remnant vegetation includes more than just trees, comprising a diverse mix of trees, shrubs and ground covers (creepers, grasses and herbs) which when intact provide valuable food and shelter for local biodiversity. Existing native vegetation generally requires less maintenance if left undisturbed.



Remnants in transport corridors are also valuable because they:

- are often the only remaining example of original vegetation within extensively cleared areas;
- are easier to maintain and generally less fire prone than introduced vegetation;
- provide habitat for many native species of plants, mammals, reptiles, amphibians and invertebrates;
- provide wildlife corridors linking other areas of native vegetation;
- often contain rare and endangered plants and animals. Currently, roadside plants represent more than 80 per cent of the known populations of 40 of the declared rare species, and three of these are known only to exist in roadside populations;
- provide the basis for our important wildflower tourism industry. The aesthetic appeal of well-maintained roadsides should not be overlooked, and they have the potential to improve local tourism and provide a sense of place;

Remnant vegetation includes more than just trees.

- often contain sites of historic or cultural significance;
- provide windbreaks and stock shelter areas for adjoining farmland by helping to stabilise temperature and reduce evaporation.
- assist with erosion and salinity control, and not only in the land adjoining the road reserve per se;
- are generally far less of a fire threat than annual weeds;
- provide a benchmark for the study of soil change throughout the advancement of agriculture;
- are a vital source of local seed for revegetation projects in the absence of other alternatives;
- provide a valuable source of seed for regeneration projects. This is especially pertinent to shrub species, as clearing and grazing beneath farm trees often removes this layer;

Approval of the local shire and a CALM permit are required prior to collection.

In a time of rapid change, where the demands placed on the natural resources are numerous, it is vital that there is a coordinated management of lands across all tenures and boundaries to ensure the sustainability and integrity of the natural biota ecosystem processes, agricultural lands and service infrastructure.



Roadsides are the vital link and a priceless community asset.

3.0 LEGISLATION

Uncertainty often exists in the minds of many with regard to the 'ownership', control and management of 'the roadside'. This problem is also exacerbated by the multitude of legislative reference to activities within a transport corridor.

The Department of Conservation and Land Management (DCLM) has the legislative responsibility to manage and protect all native flora and fauna in Western Australia. It is important to note that all flora and fauna is protected under provisions of the *Wildlife Conservation Act 1950* and cannot be taken unless it is taken in a lawful manner. In addition to the general provisions relating to protected flora under the *Wildlife Conservation Act*, special protection is afforded to flora that is declared as rare or threatened under section 23F of the *Wildlife Conservation Act*.

The legislation pertaining to the management of road reserves is complex and includes those listed below.

State legislation:

- *Aboriginal Heritage Act 1972*
- *Agriculture and Related Resources Protection Act 1976*
- *Bush Fires Act 1954*
- *Conservation and Land Management Act 1984*
- *Environmental Protection Act 1986*
- *Heritage of WA Act 1990*
- *Land Act 1933*
- *Local Government Act 1995*
- *Main Roads Act 1930*
- *Mining Act 1978*
- *Soil and Land Conservation Act 1945*
- *State Energy Commission Supply Act 1979*
- *Water Authority Act 1987*
- *Wildlife Conservation Act 1950-1979*

Commonwealth legislation:

- *Environment Protection and Biodiversity Conservation Act 1999*

It is recommended that a cautionary approach be taken when working within roadsides, and that the relevant authority be contacted if there is any doubt about the management or protection of heritage or conservation values present in the roadsides.

The Environmental Protection Amendment Bill 2002 is currently before parliament and it is envisaged that this will require greater adherence to legislative requirements before native vegetation is cleared. This legislation will provide for two types of permits which will provide for permission to clear native vegetation, however they will have certain conditions attached to them. One of these will be to prepare, implement and adhere to a roadside or specific tenure management plan. Before any native vegetation clearing is undertaken it is incumbent on the project manager or land manager to ensure that the proposed clearing is being carried out under the terms and conditions of the pending legislation, as there are transitional provisions within it, which are retrospective from 26th June 2002.

4.0 ROADSIDE CONSERVATION IN THE SHIRE OF AUGUSTA-MARGARET RIVER

4.1 Collection of native plant material from roadsides

The Shire of Augusta-Margaret River does not generally allow the collection of wildflowers or seed from native plants within road reserves. Exceptions may be granted for special cases, and for particular species. Under the *Wildlife Conservation Act* the Department of Conservation and Land Management may issue a licence following Shire approval.

Collecting seed from a roadside may be the only option in cases where there are no other sources of seed for revegetation, although, it has the potential to impact negatively on the roadside flora. Collection of native plant material from roadsides:

- further depletes the already scarce resource,
- can detract from the integrity of the roadside,
- reduces the amount of seed available for natural regeneration,
- reduces the ability of the area to regenerate after disturbances such as fire, and
- threatens roadside plant communities with the potential introduction and spread of two major threats – *Phytophthora* dieback and weeds.

4.2 Declared Rare Flora (DRF)

Declared Rare Flora (DRF) refers to species, or populations of native plants that are of great significance and should be treated with special care when road and utility service, construction or maintenance is undertaken. Populations of DRF along roadsides are designated Special Environmental Areas (SEA's) and are marked out by yellow stakes

with an identification plate welded on.

See figures 10 and 11.

It is the responsibility of the road manager to ensure these markers are installed, and guides for this are outlined in 'Guidelines for Managing SEA's in transport corridors', available from the Roadside Conservation Committee.

DRF sites in the Shire of Augusta-Margaret River need to be checked for the presence of appropriate markers,



Meziella trifida

Photos R. Davis & G.J Keighry

and their locations be made known to all involved in the management and planning of works within the roadside environment.

As of June 2003, the Shire of Augusta-Margaret River had 75 populations of DRF species on roadsides, with 65 of these sites vested in the Shire. Species of DRF in the Shire of Augusta-Margaret River include:

- Acacia inops
- Acacia subracemosa
- Adenanthes detmoldii
- Amperea micrantha
- Anthotium junciforme
- Banksia meisneri subsp. ascendens
- Boronia exilis
- Bossiaea disticha
- Caladenia excelsa
- Chordifex isomorphus
- Conospermum paniculatum
- Conospermum quadripetalum
- Darwinia ferricola

- Drakaea micrantha
- Dryandra nivea subsp. uliginosa
- Grevillea brachystylis subsp. australis
- Grevillea manglesioides subsp. ferricola
- Grevillea papillosa
- Hakea tuberculata
- Isopogon formosus subsp. dasylepis
- Jansonia formosa
- Lambertia orbifolia subsp. Scott River Plains
- Lepyrodia heleocharoides
- Meziella trifida
- Synaphea nexosa
- Thomasia laxiflora
- Verticordia lehmannii
- Verticordia plumosa var. vassensis



Grevillea brachystylis subsp. Australis
Photos by J.A. Cochrane, A.D. Crawford, S.D Hopper (Florabase)



Drynadra nivea subsp. uliginosa
Photo J.A. Cochrane & M. Pieroni (Florabase)



Adenanthes detmoldii
Photo- S.D. Hopper (Florabase)

For more information regarding DRF it is advisable to contact the Flora Officer for the Blackwood District (08) 9752 5510. If roadworks are to be carried out near DRF sites, or the yellow stakes have been disturbed, it is advisable to contact DCLM at least one week in advance.

4.3 High Conservation Value Roadsides as Flora Roads

A flora road is one which has special conservation value because of the vegetation contained within the road reserve. The managing authority may decide to declare a Flora Road based on the results of the survey of roadside conservation value. Roadsides determined as having high conservation value in the Shire of Augusta-Margaret River include:

- Miamup Road
- Cowaramup Bay Road
- Clews Road
- Fiftyone Road
- Ellenbrook Road
- Fisher Road
- Governor Broome Road
- Sebbes Road
- Bessell Road
- Caves Road
- Greenhill Road
- Schroeder Road
- Stockdill Road
- Rosa Glen Road
- Rosa Brook Road
- Redgate Road
- West Calgadup Road
- Boodjinup Road
- Cusack Road
- Sunshine Avenue
- Osmongton Road
- Courtney Road
- Bullant Drive
- Low Road
- Milyeanup Coast Road
- McLeod Creek Road
- Darch Road
- Brittain Road

(Not a complete list, consult the 2003 Roadside Conservation Value Map)

These, and other roads may be investigated further to see if they warrant a declaration as a Flora Road. This has a twofold effect of drawing the attention of tourists to the high conservation value roadside and it also alerts all that work in the roadside environment that the marked section of roadside requires due care to protect the values present.

Roads known to have already been declared as Flora Roads, or wildflower drives, in the Augusta-Margaret River Shire include Sebbes Rd, Carters Rd, Twenty-four Rd, Scott River Rd, Governor Broome Rd, and Fifty-two Rd.

In order to plan roadworks so that important areas of roadside vegetation are not disturbed, road managers should know of these areas. It is suggested that the Shire establish a *Register of Roads Important for Conservation* (see section 7.4).



Tourism

Attractive roadside drives are an important drawcard in this, the "Wildflower State".

Declared Flora Roads will, by their very nature, be attractive to tourists and would often be suitable as part of a tourist drive network.

Consideration should be given to:

- Promoting the road by means of a small brochure or booklet,
- Showing all Flora Roads on a map of the region or State,
- Using specially designed signs to delineate the Flora Road section (contact the RCC).



Roadsides are one of the most accessible places for tourists to view wildflowers.



Management

Management objectives should involve disturbing the roadside flora as little as possible, consistent with the provision of a safe and efficient roadway. The management of Flora Roads should aim to:

- Minimise disturbance,
- Control weeds,
- Encourage natural regeneration.

The techniques referred to in Section 7.0 of this report can be used to minimise disturbance to roadside vegetation. Most importantly, staff should be instructed and supervised so that incremental widening does not occur at every pass of the grader. Environmental assessments (pre-construction check-lists) should be completed prior to any upgrading work, to assist with planning for flora preservation. Fire management should be undertaken in such a way so as to take into account the ecological needs of the flora. Where rehabilitation is contemplated, local native species should always be used.

4.4 Weeds

Weeds are plants that are growing outside their natural range and competing with native plants for nutrients, space, water and light. Weeds often invade roadsides and interfere with the growth and survival of native plants. The effect of weed infestations on native plant populations is severe, and causes flow on effects for native fauna. Once native plants begin to diminish, due to heavy competition, native fauna suffers due to reduced availability of habitat and food. Once weeds become established in an area, they become a long-term management issue, costing many dollars to control or eradicate. The WA Herbarium records 212 weed species in the Shire of Augusta-Margaret River, see Appendix 4

Weed invasion along roadsides is an important issue in the Shire of Augusta-Margaret River. The Augusta Margaret River Shire undertakes a yearly weed eradication and re-planting program that targets road reserves. The Roadside Conservation Value map and weed overlays will assist the Shire in coordinating strategic weed control projects, with the highest priority to protect and preserve the high conservation value roadsides, and working towards rehabilitating those with a lower conservation value. The Augusta-Margaret River Shire is working towards the establishment of a Weed Action Group, which through community participation and feedback, will work towards a better system of weed control. The shire has held workshops on the release of the bridal creeper rust fungus, which has been spread throughout the shire, and local greencorp teams are working on weed eradication programs.

Various weeds were recorded and mapped along roadsides in the Shire of Augusta-Margaret River, as part of the roadside survey, see Figure 9. The roadside locations of some of the nominated weed species can be observed in the weed overlays provided with the Roadside Conservation Value map (2003).

Roadside populations of the following 7 nominated weeds can be seen on the overlays accompanying the RCV map:

- Gladioli (*Gladiolus spp.*),
- Freesia (*Freesia hybrid*),
- Dock (*Rumex spp.*)
- Watsonia (*Watsonia spp.*),
- Victorian tea tree (*Leptospermum laevigatum*),

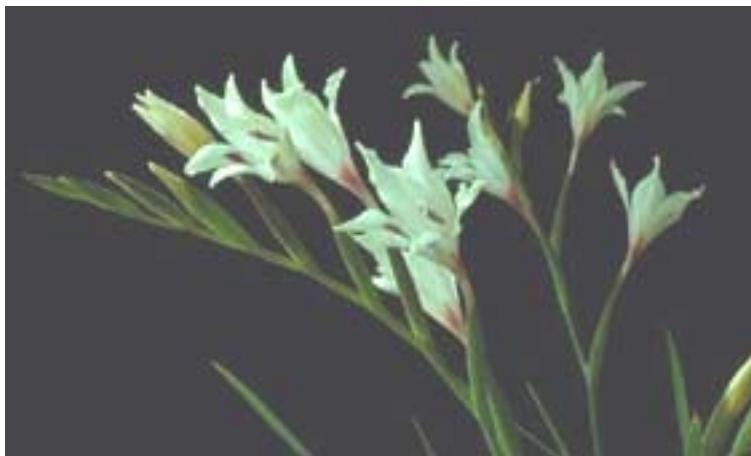


Victorian Tea Tree

Photos C. Hortin

- Arum lily (*Zantedeschia aethiopica*),
- Bridal creeper (*Asparagus asparagoides*),

The general category of “grassy weeds” and “other weeds” are also shown on clear overlays, incorporating a number of different weed species.



Long-tubed painted lady, *Gladiolus angustus*

Photo Western Weeds, 1997

The WA Herbarium recorded two species of Gladioli in the Shire of Augusta-Margaret River, *Gladiolus angustus* and *Gladiolus cardinalis*.



Bridal Creeper, *Asparagus asparagoides*

Photo by K. Jackson



Arum Lily, *Zantedeschia aethiopica*

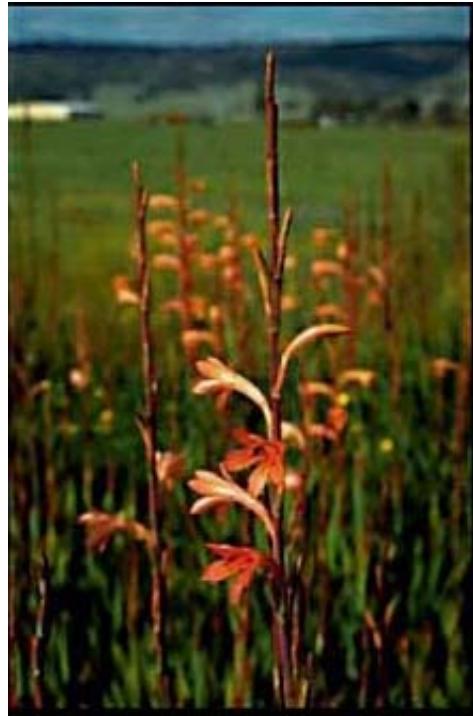
Photos by R.Knox, K. Dean, R. Randall & Anon.

The WA Herbarium recorded six species of Watsonia in the Shire of Augusta-Margaret River. Three of these, *Watsonia borbonica*, *Watsonia meriana* var. *bulbillifera*, and *Watsonia versfeldii* are pictured below.



Watsonia borbonica

Photo by S.J.Patrick



Watsonia meriana* var. *bulbillifera

Photo by R. Randall



Watsonia versfeldii

Photo by J.P.Pigott

4.5 Phytophthora Dieback

The *Phytophthora* species dieback is made up of several types of introduced fungi. About one third of native plants in Western Australia's south-west are susceptible, including species of Banksia, Hakea, Eucalyptus, Melaleuca, Verticordia, Acacia and Grevillea.

The *Phytophthora* fungus infects the roots and inhibits the uptake of water and nutrients, eventually causing death. It is more widespread and severe in the higher rainfall zone and waterlogged sites. The Shire of Augusta-Margaret River is a known *Phytophthora* dieback risk area, particularly in forested, multiple use areas.

Phytophthora spreads by the movement of spores in water, or by the spread of infected soil. The spores can be introduced to uninfected areas by human activities, particularly through the soil carried on vehicle tyres or footwear.

Human activities, such as routine maintenance or construction, have the potential to spread *Phytophthora* fungi. Currently, there is no practical method of eradicating *Phytophthora* once it is established in an area.



Impact of *Phytophthora* Dieback

Photo Dieback Working Group

The Dieback Working Group has published a booklet, *Managing Phytophthora Dieback in Bushland: A guide for Landholders and Community Conservation Groups*, that provides detailed information on minimising the risk of introducing or spreading *Phytophthora*.

5.0 ASSESSMENT PROCESS

5.1 Methods

The methods to assess and calculate the conservation value of the roadside reserves are described in *Assessing Roadsides: A guide for Rating Conservation Value* (Jackson, 2002). The process involves scoring a set of pre-selected attributes, which, when combined, represent a roadside's conservation status. A list of these attributes is presented on a standard survey sheet, see Appendix 2. This provides both a convenient and uniform method of scoring.

Ideally, the survey is undertaken by a group of local volunteers, who, aided by their knowledge of the area, are able to provide an accurate and cost effective method of data collection. Community participation also ensures a sense of ownership of the end product, which increases the likelihood of its acceptance and use by the local community and road managers (Lamont and Blyth, 1995).

The majority (556.2 km) of the Shire of Augusta-Margaret River's 911.5 km of roadsides were assessed for their conservation status and mapped. Fieldwork was carried out throughout the months of June, August, October, November and December in 2001, April, September, October and November in 2002, and April 2003.

The enthusiastic efforts of the volunteer surveyors, and project coordinator Merryn Delaney ensured that this project was successfully completed.

5.2 Quantifying Conservation Values

The following attributes were used to produce a quantitative measure of conservation value:

- native vegetation on roadside;
- extent of native vegetation along roadside;
- number of native species;
- weed infestation;
- value as a biological corridor; and
- predominant adjoining land use.

Each of these attributes was given a score ranging from 0 to 2 points. Their combined scores provided a conservation score ranging from 0 to 12. The conservation values, in the form of conservation status categories, are represented by the following colour codes

Conservation Value	Conservation Status	Colour Code
9 – 12	High	Dark Green
7 – 8	Medium High	Light Green
5 – 6	Medium Low	Dark Yellow
0 – 4	Low	Light Yellow

Table 3: Colour codes used to depict the conservation status of roadsides.

The following attributes were also noted but did not contribute to the conservation value score:

- width of road reserve;
- width of vegetated roadside;
- presence of utilities/disturbances;
- dominant native species;
- dominant weed species;
- fauna observed;
- general comments.

It is felt that the recording of these attributes will provide a community database that would provide information useful in many spheres, such as local government and community interest groups.

5.3 Mapping Conservation Values

A computer generated map (using a Geographic Information System, or GIS), depicting the conservation status of the roadside vegetation and the width of the road reserves within the Shire of Augusta-Margaret River was produced at a scale of 1:100,000. The data used to produce both the map and the following figures and tables are presented in Appendix 3.

Data obtained from the Department of Conservation and Land Management, Main Roads WA and the Department of Agriculture was used in the base map, and depicts the location of remnant vegetation on both the Crown estate and privately owned land.

The roadside conservation values map initially provides an inventory of the *status quo* of the condition of the roadside vegetation. This is important as the quality of roadside vegetation has far reaching implications for sustaining biodiversity, tourism and Landcare values.

Moreover the data and map can be incorporated as a management and planning tool for managing the roadsides *per se*, as it enables the condition of roadside vegetation to be easily assessed. This information can then be used to identify environmentally sensitive

areas, high conservation roadsides or strategically important areas, and thus ensure their conservation. Conversely, it enables degraded areas to be identified as areas important for strategic rehabilitation or in need of specific management techniques and weed control programs.

The map can also be used as a reference to overlay transparencies of other information relevant to roadside conservation. This enables the roadside vegetation to be assessed in the context of its importance to the shire's overall conservation network. Other overlays, such as the degree of weed infestation, or the location of environmentally sensitive areas or future planned developments, could also be produced as an aid to roadside management.



Weed control along a roadside

Photo MRWA

As well as providing a road reserve planning and management tool, the roadside conservation value map can also be used for:

- Regional or district fire management plans;
- Tourist routes, i.e. roads depicted as high conservation value would provide visitors to the district with an insight to the flora of the district;
- Landcare and/or Bushcare projects would be able to incorporate the information from this survey into 'whole of' landscape projects.



The survey data and map can be used in developing regional or district fire management plans

6.0 SURVEY DATA RESULTS

A summary of the general roadside conditions in the Shire of Augusta-Margaret River is presented in Table 4. The survey data has been combined to provide the total kilometres, and percentages, of roadside occupied by each of the conservation status categories and the attributes used to calculate the conservation values. As roadsides occur on both sides of the road, roadside distances (km) are equal to *twice* the actual distance of road travelled.

<u>Summary Information: Shire of Augusta-Margaret River</u>								
Length of roadsides surveyed: 1112.4 km								
<u>Conservation Status</u>	total km	%	<u>Native Vegetation on Roadsides</u>	total km	%	<u>Weed Infestation</u>	total km	%
High (9-12)	523.1	47.0	2-3 vegetation layers	893.0	80.3	Light	426.4	38.3
Med-High (7-8)	285.1	25.6	1 vegetation layer	173.2	15.6	Medium	468.3	42.1
Med-Low (5-6)	157.5	14.2	0 vegetation layers	46.1	4.1	Heavy	217.6	19.6
Low (0-4)	146.7	13.2	Total	1112.4	100.0	Total	1112.4	100.0
Total	1112.4	100.0						
<u>Conservation Values</u>	total km	%	<u>Extent of Native Vegetation</u>	total km	%	<u>Value as a Biological Corridor</u>	total km	%
0	0.6	0.1	Over 80%	371.3	33.4	High	568.8	51.1
1	23.0	2.1	20% to 80%	578.7	52.0	Medium	361.1	32.5
2	21.3	1.9	Less than 20%	162.4	14.6	Low	182.5	16.4
3	46.3	4.2	Total	1112.4	100.0	Total	1112.4	100.0
4	55.5	5.0						
5	59.3	5.3	<u>Number of Different Native Species</u>			<u>Predominant Adjoining Landuse</u>	total km	%
6	98.3	8.8	total km			total km	total km	%
7	113.7	10.2	Over 20	649.4	58.4	Cleared	69.2	6.2
8	171.4	15.4	6 to 19	272.8	24.5	Drain	0.0	0.0
9	250.7	22.5	0 to 5	190.2	17.1	Urban/Industrial	19.3	1.7
10	204.8	18.4	Total	1112.4	100.0	Other	9.2	0.8
11	58.0	5.2						
12	9.5	0.9	<u>Width of Vegetated Roadside</u>			Plantation	43.9	3.9
Total	1112.4	100.0	1 to 5 m	962.5	86.5	Railway	2.4	0.2
			5 to 20 m	98.9	8.9	Scattered	649.9	58.4
			over 20 m	50.9	4.6	Uncleared	318.5	28.6
			Total	1112.4	100.0	Total	1112.4	100.0
Data was collected in the Augusta-Margaret River Shire throughout 2001, 2002 and 2003								

Table 4: Summary of the roadside conditions in the Shire of Augusta-Margaret River.

Roadside sections of high conservation value covered 47.0% of the length of roadsides surveyed (523.1 km). Medium-high conservation value roadsides accounted for 25.6% of the total surveyed (285.1 km), medium-low conservation roadside covered 14.2% of the total surveyed (157.5 km). Areas of low conservation value occupied 13.2% of the roadsides surveyed (146.7 km), Table 4, Figure 2.

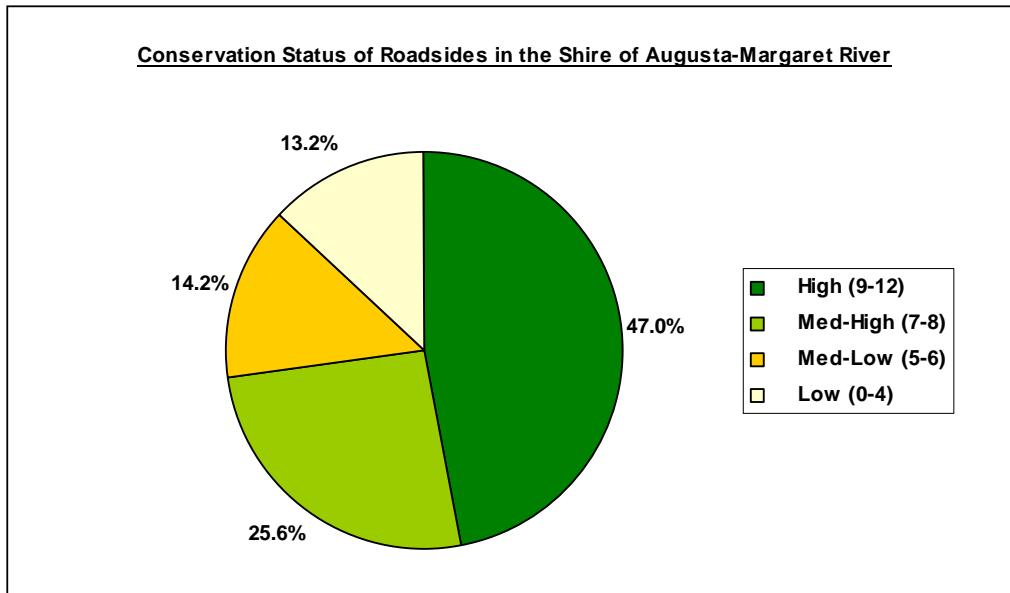


Figure 2 – Conservation status of roadsides in the Shire of Augusta-Margaret River.

The number of native vegetation layers present, either the tree, shrub or ground layers determines the ‘native vegetation on roadside’ value. Sections with two to three layers of native vegetation covered 80.3% of the roadside (893.0 km). 15.6% had only one layer (173.2 km) and 4.1% had no layers of native vegetation (46.1 km), Table 4, Figure 3.

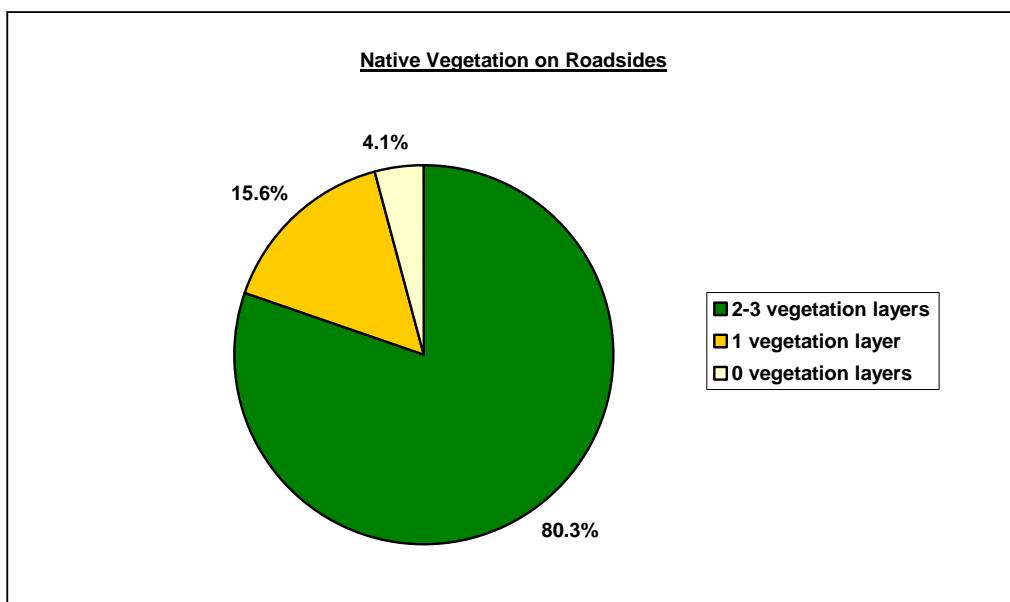


Figure 3– Native vegetation on roadsides.

Roadside vegetation with extensive cover, i.e. greater than 80%, occurred along 33.4% of the length of road surveyed (371.3 km). Survey sections with 20% to 80% vegetation cover accounted for 52.0% of the roadsides (578.7 km). The remaining 14.6% had less than 20% native vegetation (162.4 km), and therefore, a low 'extent of native vegetation' value, see Table 4, Figure 4.

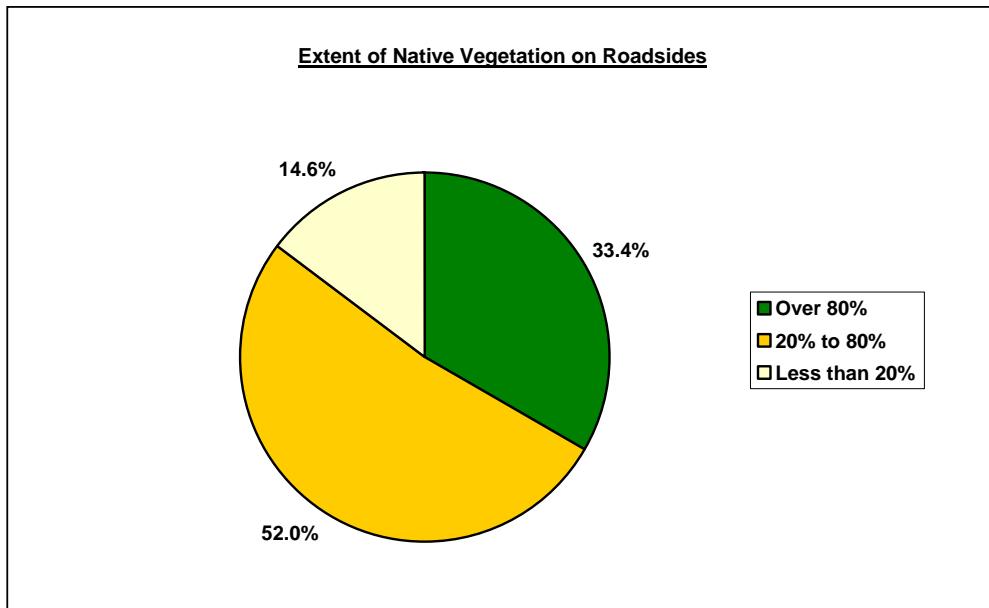


Figure 4 – Extent of native vegetation.

The 'number of native species' score provided a measure of the diversity of the roadside vegetation. Survey sections with more than 20 plant species spanned 649.4 km (58.4%) of the roadside. Roadside sections with 6 to 19 plant species accounted for 272.8 km (24.5%) of the roadside. The remaining 190.2 kms (17.1%) contained less than 5 plant species, see Table 4, Figure 5.

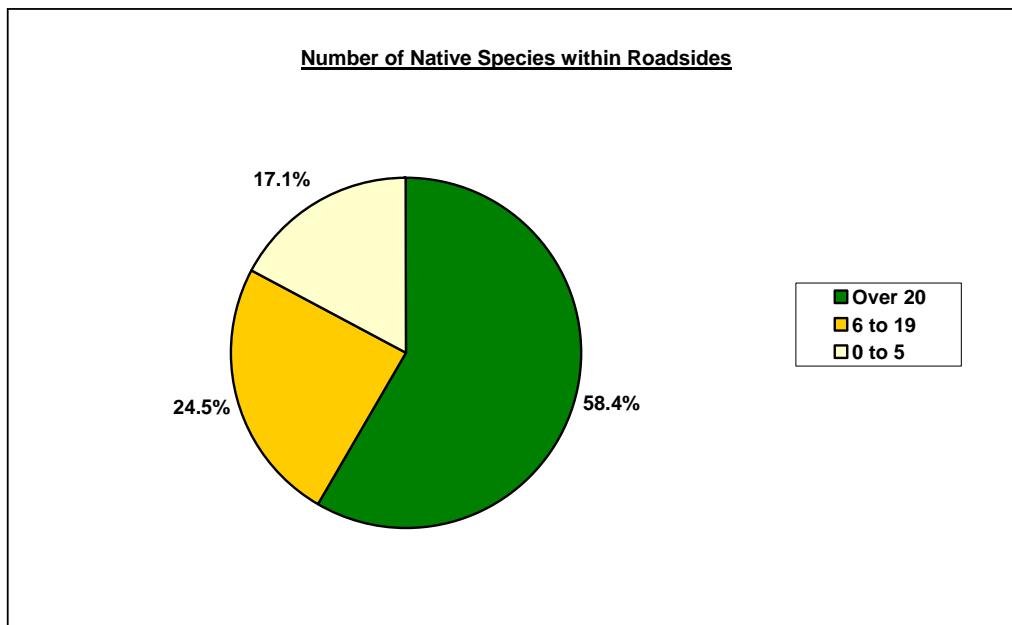


Figure 5 – Number of native species.

Roadsides determined to have high value as biological corridors (as determined by the roadside surveyors) were present along 51.1% (568.8 km) of the roadside, medium value made up 32.5% (361.1 km), and roadsides with low value as a biological corridor occurred along 16.4% (182.5 km) of the roadsides surveyed, see Table 4, Figure 6.

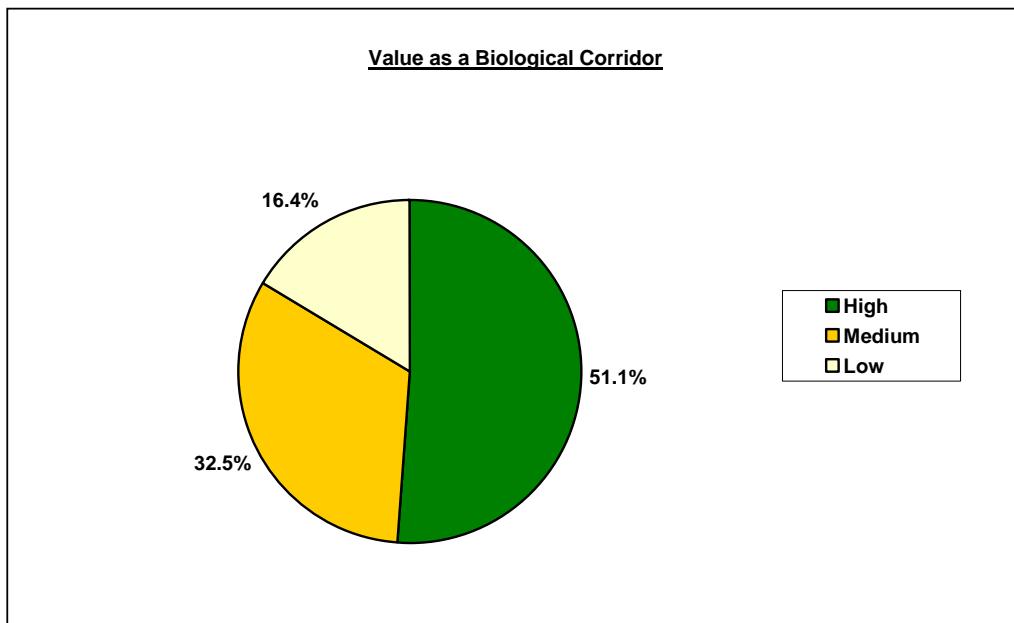


Figure 6 – Value as a biological corridor.

Light levels of weed infestation were observed on 38.3% (426.4 km) of the roadsides surveyed, medium level weed infestation occurred on 42.1% (468.3 km) of the roadsides and 19.6% (217.6 km) were heavily infested with weeds, see Table 4, Figure 7.

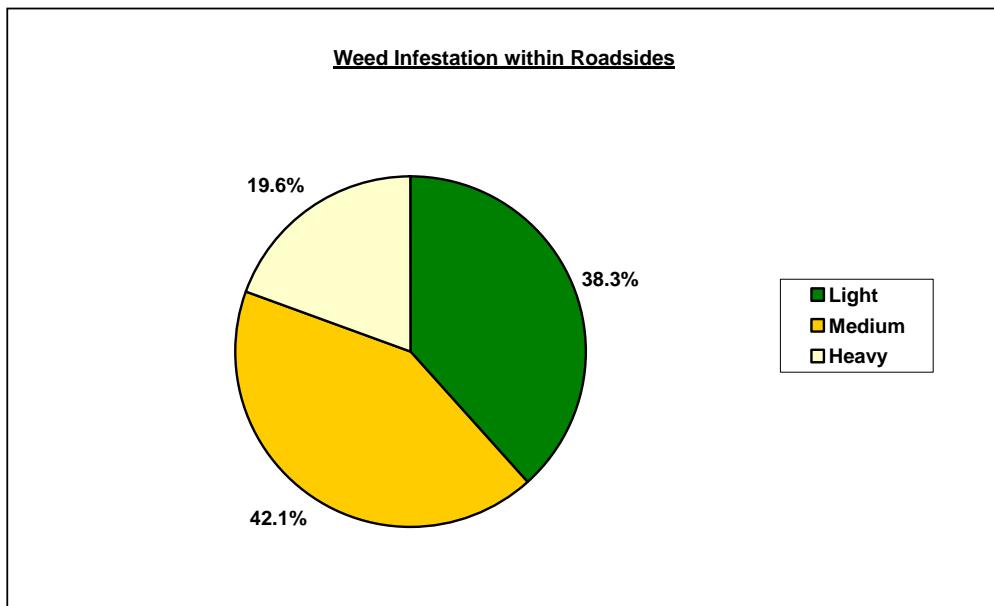


Figure 7 – Weed infestation. Light weed infestation = weeds less than 20% of total plants. Medium weed infestation = weeds 20 to 80% of the total plants. Heavy infestation = weeds more than 80% of the total plants.

A scattered distribution of native vegetation was present on 58.4% of the land adjoining roadsides, whilst 6.2% of roadsides surveyed were adjoined by land that had been completely cleared for agriculture. 28.6% of the roadsides surveyed were bordered by land that was uncleared native vegetation. Plantations adjoined 3.9%, urban/industrial landuses adjoined 1.7%, and railway reserves adjoined 0.2% of the roadsides surveyed, see Table 4, Figure 8.

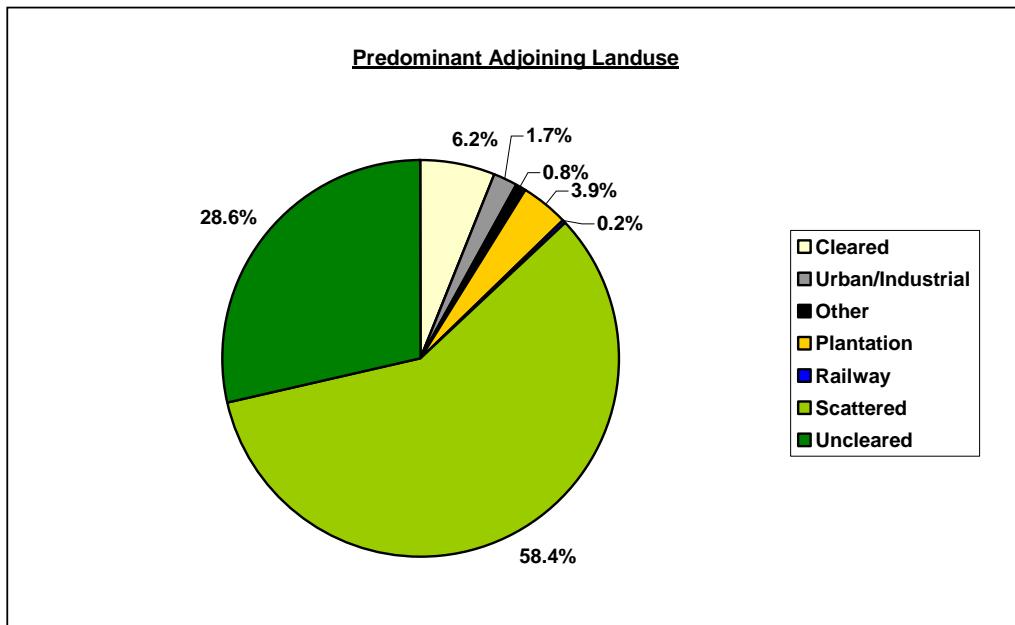


Figure 8 – Predominant adjoining land use.

Roadside populations of the following nominated weeds are indicated on clear overlays accompanying the 2003 RCV map:

- Arum Lily;
- Watsonia;
- Bridal Creeper;
- Victorian Tea Tree;
- Gladioli;
- Freesia;
- Dock;
- Grassy Weeds; and
- Other Weeds.

The occurrence of these, and other nominated weed species along roadsides in the Shire of Augusta-Margaret River can be seen in Figure 9.

The general category of 'Grassy Weeds' encompassed a number of species, and was the most highly recorded category, occurring along 713.9 km of roadsides. Of the 16 nominated weeds surveyed throughout 2001-2003, Watsonia was present along 247.3 kms of the roadsides surveyed, whilst Gladiolus was recorded along 163.3 kms of roadside. Freesia was the next most commonly recorded weed, occurring along 60.0 kms, Cape Weed was present along 57.7 kms, Bridal Creeper 44.0 kms, Dock 42.9 kms,

Arum Lily 24.2 kms, Cape Tulip 17.9 kms, Victorian Tea Tree 17 kms, Vetch 14.3 km, Three Corner Garlic 10.2 km, Cotula 10.1 km and Wild Radish 6.4 kms. Blackberry and Lupins were not observed. Weeds other than those nominated, represented by the 'Other weeds' category covered 146.5 kms of the total roads surveyed, see Figure 9.

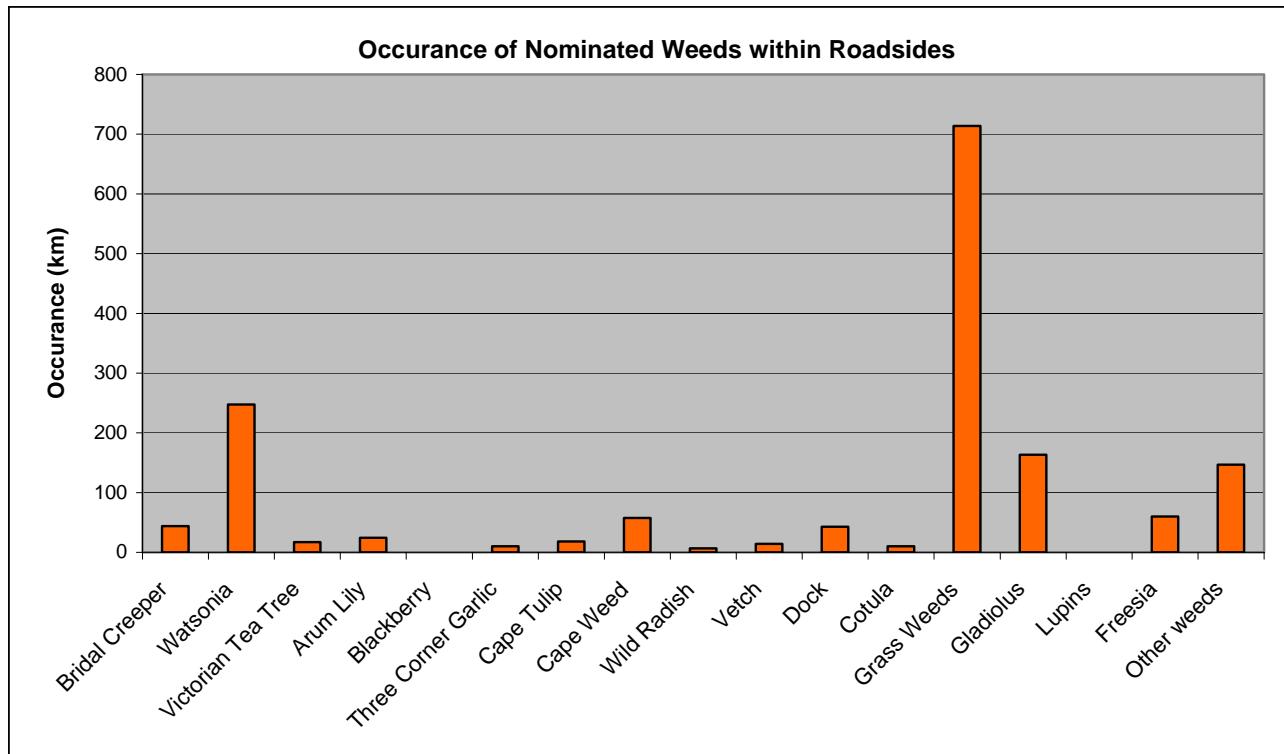


Figure 9 – Occurrence of nominated weeds along roadsides in the Shire of Augusta-Margaret River

7.0 MANAGEMENT TECHNIQUES

The primary aim of road management is the creation and maintenance of a safe, efficient road system. However, the following management procedures are recommended and should be adopted. The following section provides management recommendations that will assist in retaining and enhancing roadside conservation value. These guidelines are taken from the Roadside Conservation Committee's *Roadside Manual* and the *Roadside Handbook*.

The Executive Officer of the Roadside Conservation Committee is also available to assist on all roadside conservation matters, and can be contacted on (08) 9334 0423.

High Conservation Value Roadsides		
Management Goal		Maintain and enhance the native plant communities.
Management Guidelines		Minimal disturbance to existing vegetation. Disturbance leads to weed invasion, which downgrades the conservation value, and increases the fire threat.

Medium Conservation Value Roadsides		
Management Goal		Maintain native vegetation wherever possible, and encourage its regeneration.
Management Guidelines		Minimise disturbance to existing vegetation.

Low Conservation Value Roadsides		
Management Goal		Retain remnant trees and shrubs and encourage their regeneration. Encourage revegetation projects using indigenous plants.
Management Guidelines		Minimise soil disturbance to reduce weed invasion. Encourage revegetation projects by adjacent landholders.

Minimal disturbance can be achieved by:

- Adopting a road design that occupies the minimum space;
- Diverting the line of a table drain to avoid disturbing valuable flora;
- Pruning branches, rather than removing the whole tree or shrub;
- Not dumping spoil on areas of native flora;
- Observing dieback control measures as required;
- Apply the Fire Threat Assessment (Roadside Manual) before burning roadside vegetation;
- Use methods other than fuel reduction burns to reduce fire threat; if roadside burning must be undertaken, incorporate it into a district fire management program;
- Encourage adjacent landholders to set back fences to allow roadside vegetation to proliferate;
- Encourage adjacent landholders to plant windbreaks or farm tree lots adjacent to roadside vegetation to create a denser windbreak or shelterbelt;
- Encourage revegetation projects by adjacent landholders.

7.1 Code of Practice

A Code of Practice has been developed through collaboration with Main Roads Western Australia, the Western Australian Local Government Association and the Roadside Conservation Committee. It is anticipated that this document will be accepted as an industry standard for all working or interested in roadside conservation. This document provides defined parameters for all roadside management works and also provides the local community with an overview of management practices that will ensure the sustainability of native roadside vegetation. Please contact the Roadside Conservation Committee on 9334 0423 for further information.

7.2 Tree Roads

Tree roads are defined as those roadsides with a sufficient density of mature trees to create an attractive tunnel effect. Besides the aesthetic benefits, these areas also provide valuable habitat for birds and other arboreal fauna. Since mature trees are slow growing and hard to replace, care should be taken to conserve these avenues wherever possible. The following points should be considered when working on tree roads:

- prune offending branches rather than remove the whole tree;
- cut branches off close to limb or tree trunk;
- divert line of table drain to avoid disturbing tree roots;
- import fill to build up formation, rather than using side-borrow from roadside;
- when using herbicide for weed control on the roadside do not use a soil residual type, such as Simazine or Atrazine. Eucalypts are especially sensitive to these;

- encourage the adjoining landholders to plant shelter belts on their property that will complement the roadside vegetation.

7.3 Special Environment Areas

A Special Environmental Area is a section of roadside, which has such significance that it requires special protection. Reasons for establishing Special Environmental Areas can include:

- Protection of rare or threatened species of native plants;
- Protection of sites that have other high conservation, scientific or aesthetic values;
- Protection of Aboriginal or European cultural sites.

Special Environmental Areas can be delineated by the use of site markers. See Figures 9 and 10 for design and placement of SEA markers. Workers who come across a 'Special Environmental Area' marker in the field should not disturb the area between the markers unless specifically instructed. If in doubt, the Supervisor, Shire Engineer or CEO should be contacted.

Western Power and West Net rail also have systems for marking sites near power or rail lines. Examples of these are seen in the figure below.

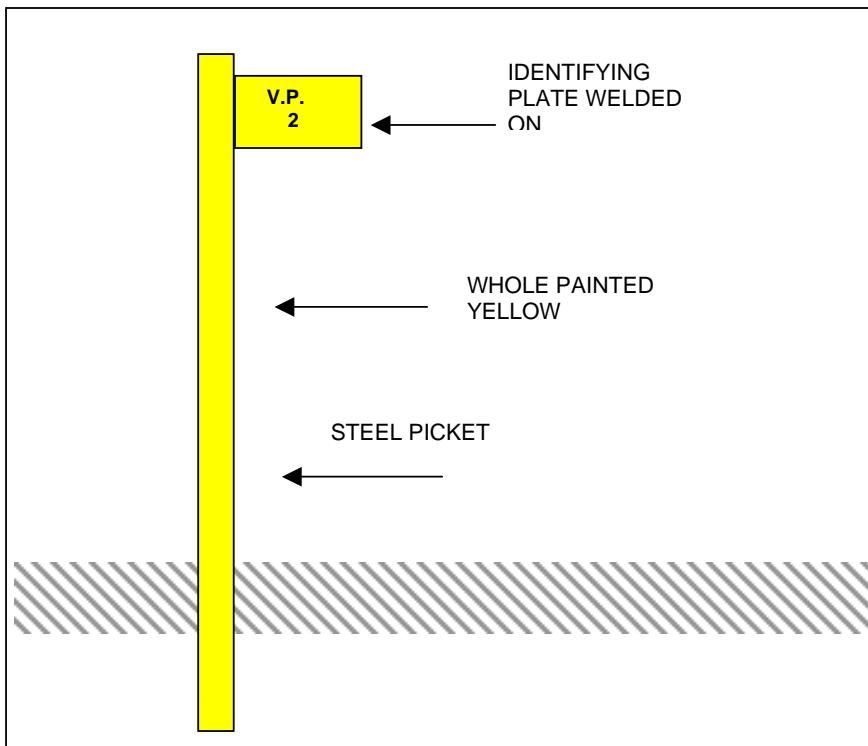


Figure 10 - Special Environmental Area site marker.

7.4 Special Environmental Area Register

To ensure that knowledge of rare flora and other sites does not get lost due, perhaps, to staff changes, a Local Authority should establish a Special Environmental Area Register. This should outline any special treatment, which the site should receive, and be consulted prior to any work being initiated in the area.

The Special Environmental Area Register should be consulted by the appropriate person prior to starting work on any particular road, to ensure that inadvertent damage does not occur. All Special Environment Area sites should be marked on the Shire map, which records Roadside Conservation Value

Local Government is encouraged to permanently mark Special Environmental Areas to prevent inadvertent damage to the rare flora or other values being protected. Markers of a uniform shape and colour will make recognition easier for other authorities using road reserves.

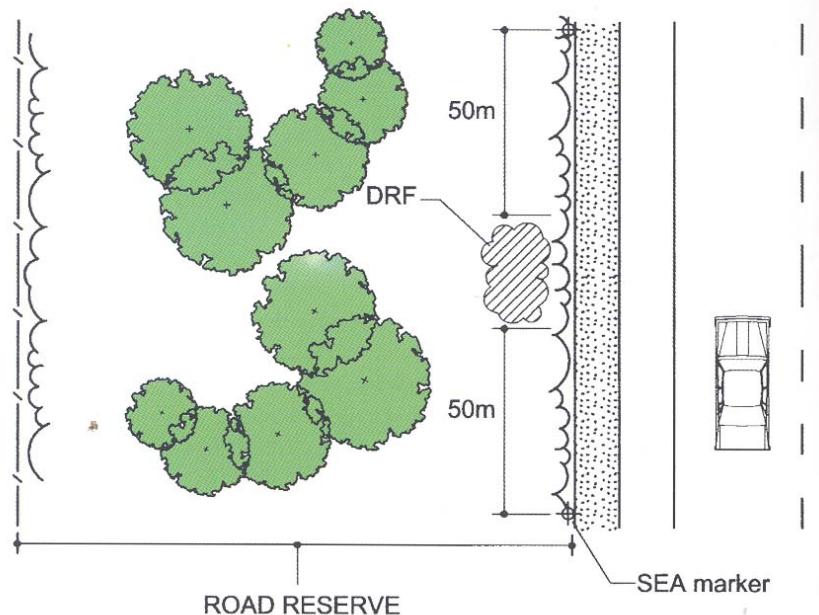


Figure 11 - Marking Special Environment Area (SEA) sites in the field. In this case, a declared rare flora (DRF) site has been marked.

When notified of a population needing marking, the Local Authority should contact the appropriate Department of Conservation and Land Management Regional or District office for assistance to ensure the exact site location and correct positioning of marker posts.

8.0 ROADSIDE PLANNING, STRATEGIES AND ACTION PLANS

8.1 Planning

The RCC is able to provide good models of Roadside Management Plans and encourages all shires to adopt this practice of planning for roadside conservation. The following actions greatly enhance likelihood of a plan that changes behaviour and results in on-ground actions:

- Community support encourage ongoing community involvement and commitment by establishing a local Roadside Advisory Committee or working group within the Shire Environmental Committee;
- Contract specifications maintain roadside values by developing environmental specifications for inclusion in all tender documents or work practices;
- Community education use of innovative and pertinent material can increase community understanding of roadside values;
- Training promote local roadside planning initiatives and gain acceptance and understanding by involving shire staff, contractors, utility provider staff and the community in workshops, seminars or training days. The Roadside Conservation Committee can provide this training.

Training develops recognition and understanding of roadside values and highlights best work practices. Workshops are developed to ensure that local issues and environments are dealt with and they include site visits to high conservation remnants, current projects and works.

The objective of all roadside management planning should be to:

- **Protect**
 - native vegetation
 - rare or threatened flora or fauna
 - cultural and heritage values
 - community assets from fire
- **Maintain**
 - safe function of the road
 - native vegetation communities
 - fauna habitats and corridors
 - visual amenity and landscape qualities
 - water quality
- **Minimise**
 - land degradation
 - spread of weeds and vermin
 - spread of soil borne pathogens
 - risk and impact of fire
 - disturbance during installation and maintenance of service assets
- **Enhance**
 - indigenous vegetation communities
 - fauna habitats and corridors

8.2 Strategies

The development of a strategy enables potentially competing uses to coexist and ensures that roadsides are managed in a coordinated approach. When producing regional strategies the RCC suggests that:

- Organisational support from local government is essential from the outset;
- Strategies should take no longer than 12 months to produce (including a period for community comment);
- Communities need to be provided with background information to make formal decisions.

Management strategies should be produced to address local issues, rather than be to a standard format. Issues can be categorised as:

➤ **Functional**

- Fire prevention
- Installation and maintenance of services
- Road construction and maintenance
- Stockpile and dumpsite management
- Vegetation removal
- Vehicle and machinery activity
- Water supply catchments

➤ **Cultural and Recreational**

- Cultural and heritage values
- Horse riding
- Visual amenity and landscape values
- Wayside stops

➤ **Landcare**

- Apiculture
- Insect Pests
- Pest animals
- Ploughing, cultivating or grading
- Revegetation and site rehabilitation
- Weeds

➤ **Conservation**

- Protecting and conserving remnant native vegetation
- Rare, threatened or significant flora and fauna
- Regeneration of native plant communities
- Roadside marking of special environmental areas
- Unused road reserves
- Wetlands
- Wildlife habitat
- Wildlife corridors

8.3 Roadside Action Plans

A Roadside Action Plan is prepared for an individual road and contains a works program that will enable conservation values and other road uses to be managed compatibly.

Roadside Action Plans are based on the guidelines that are produced as part of the roadside strategy.

The RCC suggests that Roadside Action Plans be:

- short term documents (to be reviewed within 2 years);
- prepared on a need basis;
- prepared after consultation with major stakeholders;
- a maximum of 2 pages per road;
- names a person or agency responsible for implementing the management recommendations.



Roadside Action Plans may, for example, aim to eradicate invasive weeds such as Tagasaste from roadsides. Weed overlays may be helpful in identifying strategic locations.

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- Shepherd, D. P., Beeston, G.R. and Hopkins, A. J. M. (2001). Native Vegetation in Western Australia. Technical Report 249. Department of Agriculture, Western Australia, South Perth

Appendix

1

APPENDIX 1

Definitions of Remnant Vegetation Types, Beeston et al (1993).

Vegetation classed as "**remnant vegetation**" has one or more of the following characteristics:

- * Most closely reflects the natural state of vegetation for a given area.
- * Has an intact understorey (if forest or woodland).
- * Has minimal disturbance by agents of human activity.

Vegetation classed as "**modified vegetation**" has one or more of the following characteristics:

- * Degraded understorey (i.e. reduction in the number of native species, includes weeds).
- * Obvious human disturbance, i.e. clearing, mining, grazing, weeds.
- * Affected by salt.
- * Narrow corridors of vegetation (usually along roads and railway lines or windbreaks), which are more likely to be affected by edge effects.

Vegetation classed as "**scattered vegetation**" has:

- * No understorey
- * Parkland cleared i.e. scattered single trees.
- * No significant signs or chance of regeneration.

Appendix

2

APPENDIX 2

Standard Survey Sheet

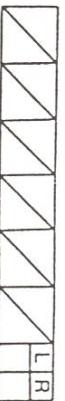
		SURVEY TO DETERMINE THE CONSERVATION VALUE OF A ROAD		Roadside Conservation Committee © 1990 No 92 CO 94.635
Date _____	Observer(s) _____			
Road Name _____	Nearest named place _____	No. OF DIFFERENT NATIVE SPECIES	UTILITIES/DISTURBANCES	
Shire _____	Direction of travel _____	0-5	Disturbances continuous	<input type="checkbox"/>
Section no. _____	starting point _____	6-19	Disturbances Isolated	<input type="checkbox"/>
odometer reading _____	ending point _____	Over 20	Disturbances absent	<input type="checkbox"/>
odometer reading _____	length of section _____	Dominant species (if known)	Type	
WIDTH OF ROAD RESERVE _____		WEEDS		
Side of the road	Left Right	Few weeds (under 20% total plants)	<input type="checkbox"/>	
Width of Vegetated roadside	1-5m	Half weeds (20-80% total)	<input type="checkbox"/>	<input checked="" type="checkbox"/> 2
5-20m	over 20m	Mostly weeds (over 80% total)	<input type="checkbox"/>	<input checked="" type="checkbox"/>
		Ground layer totally weeds	<input type="checkbox"/>	
		Dominant weeds (if known)	<input type="checkbox"/>	
		Reasons _____		
NATIVE VEGETATION ON ROADSIDE		VALUE AS A BIOLOGICAL CORRIDOR		
tree layer	<input type="checkbox"/>	Connects uncleared areas	<input type="checkbox"/>	
shrub layer	<input type="checkbox"/>	Flowering shrubs for nectar-feeding animals	<input type="checkbox"/>	<input checked="" type="checkbox"/> 1 } max
ground layer	<input type="checkbox"/>	Large trees with hollows for birds nests	<input type="checkbox"/>	<input checked="" type="checkbox"/> 2 }
		Hollow logs	<input type="checkbox"/>	
		FAUNA OBSERVED		
		Reasons _____		
RARE FLORA		GENERAL COMMENTS		
Rare flora known to be present		Name _____		
		GENERAL COMMENTS		
EXTENT OF NATIVE VEGETATION ALONG LENGTH OF ROADSIDE		PREDOMINANT ADJOINING LAND USE		
Less than 20%		Agricultural crop or pasture: <ul style="list-style-type: none"> • completely cleared • scattered trees/shrubs Uncleared land		
20-80%		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Over 80%		<input type="checkbox"/>	<input checked="" type="checkbox"/> 2 }	<input type="checkbox"/>
		Plantation of non-native trees	<input type="checkbox"/>	<input type="checkbox"/>
		Urban or Industrial	<input type="checkbox"/>	<input type="checkbox"/>
		Railway Reserve parallel to road	<input type="checkbox"/>	<input type="checkbox"/>
		Drain Reserve parallel to road	<input type="checkbox"/>	<input checked="" type="checkbox"/> 1 }
		Other	<input type="checkbox"/>	<input type="checkbox"/>
				
		9.	5.	0.
		7.	8.	

Fig. 4. Example of the survey sheet developed to assess conservation value of roadsides in Western Australia. Scores given to each attribute are indicated.

Appendix

3

Shire # and Road #	Section #	Length of section (km)	Road Name	Road Reserve Width (m)	Native Vegetation		Extent of Vegetation		Number of Native Plant Species		Weeds		Value as a Biological Corridor		Adjoining Landuse		Conservation Value (0-12)	
					Left	Right	Left	Right	Left	Right	Left	Right	Left	Right	Left	Right	Left	Right
2010001	1	1.32	MIAMUP RD		2	2	2	2	2	2	2	2	2	2	2	2	12	12
2010001	2	4.90	MIAMUP RD		1	1	0	0	1	1	0	0	0	0	0	2	2	4
2010002	1	6.53	TREETON RD	20	1	1	1	1	1	1	1	1	1	1	1	1	6	6
2010002	2	3.80	TREETON RD	20	2	2	0	1	0	0	1	2	0	1	1	1	4	7
2010003	1	0.50	COWARAMUP BAY RD		1	1	0	0	0	0	0	0	0	0	0	1	1	2
2010003	2	0.20	COWARAMUP BAY RD		2	2	1	0	1	1	2	1	1	0	0	1	7	5
2010003	3	2.30	COWARAMUP BAY RD		2	2	2	2	2	2	2	2	2	2	2	1	1	11
2010003	4	1.00	COWARAMUP BAY RD		2	2	1	1	0	0	1	1	1	1	0	1	1	6
2010003	5	1.60	COWARAMUP BAY RD		2	2	0	0	0	0	1	1	0	0	1	1	4	4
2010003	6	1.40	COWARAMUP BAY RD		2	2	1	1	0	0	2	2	2	2	1	1	1	8
2010003	7	1.20	COWARAMUP BAY RD		2	2	2	2	2	2	2	2	2	2	0	0	10	10
2010003	8	1.20	COWARAMUP BAY RD		2	2	2	2	2	2	2	2	2	2	0	0	1	10
2010003	9	1.10	COWARAMUP BAY RD		2	2	2	2	2	2	2	2	2	2	0	0	10	10
2010004	1	0.70	FIFTYONE RD		2	2	1	1	2	2	2	1	0	0	1	1	8	7
2010004	2	0.50	FIFTYONE RD		2	2	2	2	2	2	2	2	2	2	1	1	11	11
2010004	3	0.90	FIFTYONE RD		2	2	1	1	1	2	1	2	1	1	1	1	7	9
2010004	4	0.90	FIFTYONE RD		2	2	2	2	2	2	2	2	2	2	2	1	1	11
2010004	5	1.40	FIFTYONE RD		2	2	2	2	2	2	2	2	2	2	2	1	1	11
2010007	1	1.20	ELLENBROOK RD		2	2	2	2	2	2	2	2	2	2	2	1	1	11
2010007	2	1.10	ELLENBROOK RD		2	2	2	2	2	1	1	1	2	2	1	1	10	9
2010007	3	0.90	ELLENBROOK RD		2	2	1	1	1	1	1	1	1	2	2	1	1	8
2010007	4	0.90	ELLENBROOK RD		2	2	2	2	2	2	2	2	2	2	2	1	1	11
2010007	5	1.10	ELLENBROOK RD		2	2	2	2	2	2	1	1	2	2	0	1	9	10
2010007	6	0.70	ELLENBROOK RD		2	2	1	1	2	2	1	1	2	2	1	1	9	9
2010007	7	1.00	ELLENBROOK RD		2	2	2	1	2	2	1	1	2	2	1	1	10	9
2010008	1	9.36	WIRRING RD	20	1	2	1	1	1	1	1	1	1	2	1	1	6	8
2010009	1	0.80	OSMINGTON RD	20	2	2	2	2	1	1	2	2	2	2	0	0	9	9
2010009	2	5.50	OSMINGTON RD	20	1	1	1	0	0	0	1	1	0	2	0	0	3	5
2010009	3	5.55	OSMINGTON RD	20	0	2	0	1	0	1	0	2	0	1	1	1	1	8
2010009	4	2.50	OSMINGTON RD	20	1	2	0	0	0	0	0	0	0	1	1	1	2	4
2010009	5	5.92	OSMINGTON RD	20	2	2	1	1	0	0	1	1	1	2	1	1	6	7
2010012	1	0.90	GREENHILL RD		2	2	2	2	2	2	2	2	2	2	0	0	10	10

2010012	2	0.73	GREENHILL RD		2	2	2	2	2	2	2	2	2	2	0	0	10	10	
2010012	3	2.70	GREENHILL RD		2	2	2	2	2	2	2	2	2	2	0	0	10	10	
2010013	1	0.90	BUSHBY RD		2	2	1	1	2	2	1	1	1	1	1	1	8	8	
2010013	2	1.22	BUSHBY RD		2	2	1	1	2	2	1	1	1	1	1	1	8	8	
2010013	3	0.30	BUSHBY RD		2	2	2	2	2	2	2	2	1	1	0	0	9	9	
2010016	1	0.40	STOCKDILL RD		2	2	2	2	2	2	2	2	2	1	0	0	10	9	
2010016	2	0.70	STOCKDILL RD		2	2	2	2	2	2	2	2	0	1	1	1	9	10	
2010016	3	0.60	STOCKDILL RD		2	2	2	2	2	2	2	2	2	1	1	1	11	10	
2010016	4	0.70	STOCKDILL RD		2	2	1	2	1	2	2	2	1	1	1	1	8	10	
2010016	5	0.37	STOCKDILL RD		2	2	2	2	2	2	2	2	1	1	1	1	10	10	
2010017	1	0.60	CHALLIS RD		1	1	0	0	0	0	0	0	0	0	1	1	2	2	
2010017	2	0.40	CHALLIS RD		2	1	1	1	1	1	1	1	0	1	1	1	6	6	
2010018	1	0.70	VAN SITTART RD		2	2	1	1	1	1	2	2	2	2	1	1	9	9	
2010018	2	0.20	VAN SITTART RD		2	2	1	1	1	1	2	2	2	2	1	0	9	8	
2010018	3	0.20	VAN SITTART RD		2	2	1	1	1	1	2	2	2	2	1	0	9	8	
2010018	4	0.73	VAN SITTART RD		2	2	0	0	0	0	1	1	1	1	1	1	5	5	
2010019	1	1.35	FISHER RD		2	2	2	2	2	2	2	2	2	2	1	1	11	11	
2010019	2	0.55	FISHER RD		2	2	2	2	2	2	2	2	2	1	1	0	0	9	9
2010019	3	0.80	FISHER RD		2	2	1	1	2	2	2	2	1	1	1	1	9	8	
2010019	4	0.75	FISHER RD		2	2	1	1	2	2	0	0	1	1	1	1	7	7	
2010019	5	1.05	FISHER RD		1	1	1	1	1	1	1	1	1	1	1	1	6	6	
2010019	6	0.80	FISHER RD		2	2	1	2	2	2	2	2	2	2	1	1	10	11	
2010019	7	2.62	FISHER RD		2	2	2	2	2	2	2	2	2	2	0	0	10	10	
2010020	1	3.70	GLENARTY RD		2	2	1	2	1	1	2	2	2	2	1	1	9	10	
2010020	2	1.10	GLENARTY RD		1	1	1	1	1	1	2	2	2	2	1	0	8	7	
2010020	3	0.80	GLENARTY RD		2	1	1	0	1	0	2	1	2	1	1	1	9	4	
2010020	4	0.30	GLENARTY RD		2	2	1	1	0	0	2	2	2	2	1	0	8	7	
2010020	5	0.50	GLENARTY RD		1	1	1	1	0	0	1	1	0	0	1	1	4	4	
2010020	6	0.10	GLENARTY RD		2	0	2	0	2	0	2	0	0	0	0	1	8	1	
2010021	1	3.77	WILSON RD		2	2	0	0	0	0	1	1	1	1	1	1	5	5	
2010021	2	0.30	WILSON RD		2	2	1	1	1	1	2	2	1	2	1	0	8	8	
2010022	1	3.00	TWENTYFOUR RD		2	2	0	0	0	0	1	1	2	2	1	1	6	6	
2010022	2	0.80	TWENTYFOUR RD		2	1	1	0	1	0	2	1	2	1	0	0	8	3	
2010022	3	0.60	TWENTYFOUR RD		2	2	1	1	1	1	2	2	2	1	0	0	8	7	
2010022	4	2.01	TWENTYFOUR RD		1	2	0	1	0	0	1	2	1	2	2	2	5	9	
2010023	1	0.20	COURTNEY RD		2	1	0	0	0	0	0	0	0	0	1	1	3	2	

2010023	2	1.00	COURTNEY RD		2	2	1	1	2	2	1	1	2	2	1	1	9	9	
2010023	3	0.40	COURTNEY RD		2	2	1	1	1	1	0	0	2	2	1	1	7	7	
2010023	4	2.70	COURTNEY RD		2	2	1	1	2	2	1	1	2	2	1	1	9	9	
2010023	5	0.40	COURTNEY RD		2	2	1	1	1	1	0	0	2	2	1	1	7	7	
2010024	1	1.10	SCOTT RIVER RD	20	2	2	1	1	2	2	2	2	1	1	0	0	8	8	
2010024	2	1.00	SCOTT RIVER RD	20	2	2	0	0	0	1	0	0	0	0	1	2	3	5	
2010024	3	1.80	SCOTT RIVER RD	20	2	2	2	2	2	2	2	2	2	2	1	0	11	10	
2010024	4	6.00	SCOTT RIVER RD	20	2	2	2	2	2	2	2	2	1	1	0	0	9	9	
2010024	5	2.00	SCOTT RIVER RD	20	2	2	1	1	2	2	1	1	1	1	2	2	9	9	
2010028	1	0.40	SCHROEDER RD		2	2	2	2	2	2	2	2	2	2	0	0	10	10	
2010028	2	0.50	SCHROEDER RD		2	2	2	2	2	2	2	2	1	2	2	0	1	10	10
2010028	3	1.70	SCHROEDER RD		2	2	2	2	2	2	1	1	2	2	1	2	10	11	
2010028	4	0.50	SCHROEDER RD		2	2	2	2	2	2	1	1	2	2	0	1	9	10	
2010028	5	2.60	SCHROEDER RD		2	2	2	2	2	2	1	1	1	1	0	0	8	8	
2010029	1	0.80	WRIGHT RD		1	1	0	0	1	0	0	0	2	0	2	2	6	3	
2010029	2	0.70	WRIGHT RD		2	0	1	0	1	0	0	0	2	0	2	2	8	2	
2010029	3	1.30	WRIGHT RD		2	2	1	1	1	1	0	0	2	2	1	1	7	7	
2010029	4	0.60	WRIGHT RD		0	0	0	0	0	0	0	0	1	1	2	2	3	3	
2010029	5	0.90	WRIGHT RD		2	2	1	1	2	2	1	1	2	1	1	2	9	9	
2010029	6	0.50	WRIGHT RD		0	2	1	1	2	2	1	2	2	2	1	1	7	10	
2010029	7	1.30	WRIGHT RD		2	2	2	1	2	2	2	1	2	2	0	1	10	9	
2010029	8	0.30	WRIGHT RD		2	2	1	1	1	1	1	1	2	2	1	2	8	9	
2010029	9	1.00	WRIGHT RD		2	2	1	1	1	1	0	0	2	2	1	2	7	8	
2010030	1	0.60	WARNER GLEN RD		2	2	2	1	2	1	2	2	1	1	0	2	9	9	
2010030	2	7.30	WARNER GLEN RD		1	2	0	1	1	1	1	1	0	0	1	1	4	6	
2010030	3	3.70	WARNER GLEN RD		2	2	2	2	2	2	1	1	1	1	0	0	8	8	
2010030	4	1.60	WARNER GLEN RD		2	2	1	1	1	1	1	1	0	0	1	1	6	6	
2010030	5	0.20	WARNER GLEN RD		1	1	0	0	0	0	0	0	0	0	1	1	2	2	
2010030	6	0.60	WARNER GLEN RD		1	1	0	0	0	0	0	0	0	0	1	1	2	2	
2010030	7	3.30	WARNER GLEN RD		2	2	2	2	2	2	2	2	1	1	0	0	9	9	
2010030	8	0.90	WARNER GLEN RD		1	1	0	0	1	1	2	2	0	0	1	1	5	5	
2010030	9	1.14	WARNER GLEN RD		1	1	0	0	1	0	1	0	0	0	1	1	4	2	
2010031	1	0.70	CASTLE RD		2	2	1	1	2	2	1	1	2	2	1	1	9	9	
2010031	2	0.40	CASTLE RD		2	2	2	2	2	2	2	2	2	2	0	1	10	11	
2010031	3	0.60	CASTLE RD		2	2	1	1	2	2	1	1	2	2	1	1	9	9	
2010031	4	0.40	CASTLE RD		2	2	1	2	1	2	1	1	1	2	1	0	7	9	

2010031	5	0.60	CASTLE RD		2	1	1	1	1	1	0	0	2	1	1	1	7	5	
2010031	6	0.48	CASTLE RD		2	2	1	1	2	2	1	1	2	2	2	2	10	10	
2010033	1	0.50	GOVERNOR BROOME RD		2	2	2	2	2	2	2	2	2	2	2	1	1	11	11
2010033	2	0.40	GOVERNOR BROOME RD		2	2	2	2	2	2	2	2	1	1	1	1	10	10	
2010033	3	0.70	GOVERNOR BROOME RD		2	2	2	2	2	2	2	2	2	2	1	1	11	11	
2010033	4	0.30	GOVERNOR BROOME RD		1	1	1	1	2	2	1	1	1	1	1	1	7	7	
2010033	5	1.00	GOVERNOR BROOME RD		2	2	2	2	2	2	2	2	1	1	1	1	10	10	
2010035	1	0.95	MILLARS RD		1	1	0	0	0	0	0	0	0	0	2	2	3	3	
2010037	1	0.40	FOREST GROVE RD		1	1	1	1	1	1	1	1	0	0	1	1	5	5	
2010037	2	0.30	FOREST GROVE RD		2	1	1	0	0	0	1	0	0	0	1	1	5	2	
2010037	3	1.90	FOREST GROVE RD		2	2	1	1	1	1	1	1	1	0	1	1	7	6	
2010037	4	0.60	FOREST GROVE RD		2	2	1	1	2	2	1	1	2	2	1	1	9	9	
2010037	5	0.70	FOREST GROVE RD		2	2	0	0	2	2	1	1	2	2	1	1	8	8	
2010037	6	1.10	FOREST GROVE RD		2	2	0	0	2	2	2	2	2	2	1	1	9	9	
2010037	7	1.70	FOREST GROVE RD		2	2	2	2	2	2	2	2	2	2	0	0	10	10	
2010038	1	0.30	SEBBES RD		2	2	1	1	2	2	1	1	1	1	1	1	8	8	
2010038	2	2.20	SEBBES RD		2	2	2	2	2	2	2	2	1	1	0	1	9	10	
2010038	3	1.70	SEBBES RD		2	2	2	2	2	2	2	2	2	2	1	1	11	11	
2010039	1	1.15	ROCKY RD		2	2	1	1	0	0	1	1	1	1	1	1	6	6	
2010039	2	5.50	ROCKY RD		2	2	1	1	2	2	1	1	2	2	1	1	9	9	
2010040	1	1.66	BROOKS RD		2	2	1	1	2	2	1	1	1	1	1	1	8	8	
2010040	2	2.70	BROOKS RD		2	2	2	1	2	2	2	1	2	2	0	1	10	9	
2010041	1	1.40	NOAKES RD		2	2	2	2	2	2	2	2	2	2	0	0	10	10	
2010041	2	1.80	NOAKES RD		2	2	1	1	1	1	0	0	0	0	1	1	5	5	
2010042	1	1.65	DAVIS RD	20	2	2	1	1	2	2	1	1	1	2	1	1	8	9	
2010042	2	7.37	DAVIS RD		2	2	1	1	2	2	1	1	2	2	1	1	9	9	
2010043	1	1.48	LEISHAM RD		2	2	1	1	2	2	2	2	2	2	1	0	10	9	
2010044	1	1.50	ROSA GLEN RD		2	2	2	2	2	2	2	2	2	2	0	0	10	10	
2010044	2	5.70	ROSA GLEN RD		2	2	1	1	2	2	1	1	2	2	1	1	9	9	
2010044	3	1.80	ROSA GLEN RD		1	1	0	0	0	0	0	0	0	0	1	1	2	2	
2010044	4	3.60	ROSA GLEN RD		2	2	1	1	1	1	0	0	2	2	1	1	7	7	
2010044	5	2.37	ROSA GLEN RD		2	2	2	2	2	2	2	2	2	2	0	0	10	10	
2010045	1	2.40	ROSA BROOK RD		1	1	1	1	1	1	0	0	2	1	1	1	6	5	
2010045	2	4.90	ROSA BROOK RD		2	2	2	2	2	2	2	2	2	2	0	0	10	10	
2010045	3	2.50	ROSA BROOK RD	40	2	2	1	1	2	2	1	1	1	1	0	0	7	7	
2010045	4	1.70	ROSA BROOK RD		0	2	0	1	0	1	0	1	0	2	1	1	1	8	

2010057	2	0.30	REDGATE RD		2	2	1	1	2	2	2	1	2	1	0	1	9	8	
2010057	3	1.00	REDGATE RD		2	2	1	1	2	2	2	2	2	2	1	1	10	10	
2010057	4	0.20	REDGATE RD		2	2	1	1	2	2	2	2	2	2	1	1	10	10	
2010057	5	1.10	REDGATE RD		2	2	2	2	2	2	2	2	2	2	1	0	11	10	
2010057	6	1.30	REDGATE RD		1	1	1	1	1	1	0	0	1	1	1	1	5	5	
2010057	7	0.80	REDGATE RD		2	2	1	1	1	1	0	0	2	2	1	1	7	7	
2010057	8	1.00	REDGATE RD		2	1	1	1	2	2	1	1	2	2	0	1	8	8	
2010057	9	0.30	REDGATE RD		2	2	1	1	1	1	2	2	1	1	1	1	8	8	
2010057	10	0.70	REDGATE RD		2	2	2	2	2	2	2	2	2	2	1	0	11	10	
2010060	1	0.30	HILLVIEW RD		1	1	0	0	1	1	1	1	1	1	1	1	5	5	
2010060	2	0.80	HILLVIEW RD		2	2	1	1	1	1	1	1	1	1	2	1	1	7	8
2010060	3	0.70	HILLVIEW RD		2	2	2	1	2	2	1	1	2	2	0	1	9	9	
2010060	4	3.70	HILLVIEW RD		2	2	2	2	2	2	2	2	1	1	0	0	9	9	
2010061	1	1.10	SCOTT RD		2	2	2	2	2	2	2	2	2	2	1	1	11	11	
2010062	1	1.40	BULLANT DR		2	2	2	2	2	2	2	2	1	1	0	0	9	9	
2010062	2	0.70	BULLANT DR		2	2	1	1	2	2	1	1	0	0	1	1	7	7	
2010062	3	0.40	BULLANT DR		2	2	1	1	2	2	2	2	1	1	1	1	9	9	
2010062	4	0.40	BULLANT DR		1	2	0	1	1	2	1	2	0	0	1	1	4	8	
2010062	5	1.00	BULLANT DR		1	2	0	1	1	2	1	2	0	1	1	1	4	9	
2010067	1	2.50	CLEWS RD		2	2	2	2	2	2	2	2	2	2	2	2	12	12	
2010069	1	2.50	BURNSIDE RD		2	2	1	1	2	2	0	0	2	2	1	1	8	8	
2010069	2	2.80	BURNSIDE RD		1	1	1	1	1	1	0	0	2	1	1	1	6	5	
2010069	3	3.06	BURNSIDE RD	20	1	2	0	0	1	2	0	0	0	2	1	1	3	7	
2010069	4	0.80	BURNSIDE RD		2	2	1	1	2	2	2	1	1	0	0	1	8	7	
2010073	1	0.90	KEVILL RD		2	2	1	1	2	2	1	1	2	2	0	0	8	8	
2010073	2	2.00	KEVILL RD		2	2	1	1	2	2	0	1	1	1	1	1	7	8	
2010073	3	2.31	KEVILL RD		2	2	1	1	1	1	1	1	1	1	1	1	7	7	
2010076	1	5.90	BRAMLEY RIVER RD	20	2	2	1	1	1	1	2	2	1	2	1	0	8	8	
2010076	2	1.90	BRAMLEY RIVER RD		0	0	0	0	0	0	0	0	0	0	2	1	2	1	
2010076	3	2.20	BRAMLEY RIVER RD	20	2	2	2	1	1	1	2	2	2	2	0	1	9	9	
2010076	4	1.55	BRAMLEY RIVER RD	20	2	1	0	0	0	0	1	0	0	0	1	1	4	2	
2010078	1	2.62	BELL RD	20	1	2	1	1	0	0	1	1	0	2	1	1	4	7	
2010081	1	3.62	OLDFIELD RD	20	2	2	2	2	1	1	2	2	1	1	1	1	9	9	
2010082	1	3.10	HOLBEN RD	20	2	2	1	1	0	0	1	1	1	1	1	1	6	6	
2010082	2	0.70	HOLBEN RD	20	2	0	2	0	1	0	2	0	2	0	0	1	9	1	
2010082	3	1.10	HOLBEN RD	20	0	0	0	0	0	0	0	0	0	0	1	1	1	1	

2010082	4	2.33	HOLBEN RD	20	2	2	1	1	1	0	1	1	1	1	0	1	1	7	5
2010083	1	2.50	JINDONG TREETON RD	20	1	1	1	1	1	1	1	1	1	1	1	1	1	6	6
2010083	2	1.60	JINDONG TREETON RD	20	2	2	0	0	0	0	0	0	0	1	1	1	1	4	4
2010083	3	2.30	JINDONG TREETON RD	20	2	2	1	1	0	1	1	1	1	1	1	1	1	6	7
2010083	4	3.75	JINDONG TREETON RD	20	2	2	1	1	1	1	1	1	1	1	1	0	1	6	7
2010084	1	4.12	CROZIER RD	20	2	2	1	1	2	2	1	1	2	2	1	1	9	9	
2010086	1	3.65	MANEAR RD		2	2	1	1	2	2	1	0	1	2	0	1	7	8	
2010086	2	5.30	MANEAR RD	20	2	2	1	1	2	2	1	1	2	2	1	1	9	9	
2010087	1	1.80	ARTHUR RD	20	2	2	1	1	2	2	1	1	2	2			8	8	
2010087	2	1.77	ARTHUR RD		2	2	1	1	1	1	0	0	1	1	1	1	6	6	
2010089	1	2.50	BARRETT RD	20	2	2	1	1	1	1	0	0	2	2			6	6	
2010091	1	6.00	DENNIS RD		2	2	2	2	2	2	2	2	1	1	0	1	9	10	
2010091	2	3.56	DENNIS RD		1	1	2	2	2	2	2	2	1	1	1	1	9	9	
2010096	1	0.20	MILYEANUP COAST RD		2	2	2	2	2	2	2	2	1	1	0	1	9	10	
2010096	2	1.20	MILYEANUP COAST RD		2	2	2	2	2	2	2	2	1	1	1	0	10	9	
2010110	1	1.10	WALCLIFFE RD		2	2	1	1	2	2	1	1	1	1	0	0	7	7	
2010110	2	1.75	WALCLIFFE RD	60	2	1	1	1	2	1	1	1	2	2	1	1	9	7	
2010110	3	2.00	WALCLIFFE RD		2	2	1	1	2	2	1	0	1	1	1	1	8	7	
2010113	1	0.80	MANN RD		2	2	1	1	2	2	1	1	2	2	2	2	10	10	
2010116	1	2.40	CARTERS RD		2	2	1	2	2	2	1	2	2	2	0	0	8	10	
2010116	2	1.96	CARTERS RD		2	2	1	1	2	2	1	1	1	1	1	1	8	8	
2010116	3	1.50	CARTERS RD		2	2	0	1	1	2	0	1	1	1	1	1	5	8	
2010120	1	1.40	RAILWAY TCE		2	2	0	0	1	1	1	0	0	0	0	1	4	4	
2010120	2	0.69	RAILWAY TCE		0	1	2	2	0	0	0	0	0	0	0	0	2	3	
2010120	3	1.00	RAILWAY TCE		2	2	1	1	2	2	1	1	1	1	0	1	7	8	
2010122	1	0.30	BOODJINUP RD		2	1	2	1	2	1	2	1	2	0	0	2	10	6	
2010122	2	0.60	BOODJINUP RD		0	0	0	0	0	0	1	1	0	0	0	0	1	1	
2010122	3	1.00	BOODJINUP RD		2	2	2	2	2	2	2	2	2	2	0	0	10	10	
2010122	4	0.80	BOODJINUP RD		1	1	1	1	1	1	1	1	0	0	2	2	6	6	
2010122	5	0.70	BOODJINUP RD		2	2	1	1	2	1	2	2	2	1	1	2	10	9	
2010122	6	0.20	BOODJINUP RD		2	1	2	0	2	0	2	1	2	0	0	1	10	3	
2010122	7	1.00	BOODJINUP RD		1	2	0	2	0	2	0	2	0	2	2	2	3	12	
2010122	8	1.50	BOODJINUP RD		2	2	1	1	2	2	1	1	2	2	1	0	9	8	
2010122	9	1.40	BOODJINUP RD		2	2	1	1	2	2	1	2	2	1	1	0	9	8	
2010166	1	0.58	JACKSON RD	20	2	0	1	0	2	0	1	0	2	0	0	1	8	1	
2010167	1	1.54	PERICLES RD	20	2	2	2	1	2	2	1	1	2	1	0	1	9	8	

2010363	1	1.24	ILLAWARRA AVE		2	2	1	1	1	1	1	1	1	1	1	1	1	7	7
2010363	2	1.24	ILLAWARRA AVE		2	2	1	1	2	2	1	1	1	1	0	0	7	7	
2010364	1	0.30	HEREFORD PL		1	1	0	0	0	0	0	0	1	1	1	1	3	3	
2010367	1	0.70	DEVON DR		1	1	1	1	1	2	1	1	1	2	1	1	6	8	
2010380	1	0.48	RANGNOW PL		2	2	1	2	2	2	2	2	0	0	0	0	7	8	
2010381	1	0.25	LOARING PL		2	2	2	2	2	2	2	2	1	1	0	0	9	9	
2010382	1	0.34	BAKERS CL		0	0	0	0	0	0	0	0	0	0	2	2	2	2	
2010382	2	0.34	BAKERS CL		2	2	2	2	2	2	2	2	2	0	0	0	10	10	
2010394	1	11.30	CANE BRAKE RD	20	2	2	2	1	1	2	2	2	2	1	1	10	10		
2010419	1	1.23	JANE RD		1	1	0	0	1	1	0	0	1	1	1	1	4	4	
2010436	1	0.66	WEST BAY CREEK RD		2	2	1	1	2	2	1	1	2	2	0	0	8	8	
2010478	1	3.68	CALGARDUP RD		2	2	1	1	2	2	0	0	1	2	1	1	7	8	
2010479	1	0.30	PRATT RD		1	2	0	2	0	2	1	2	0	1	1	1	3	10	
2010479	2	1.30	PRATT RD		2	2	2	2	2	2	2	2	2	1	1	1	11	11	
2010479	3	0.52	PRATT RD		2	2	2	2	2	2	2	2	2	0	1	1	10	11	
2010483	1	0.62	CULHANE RD		1	1	0	0	0	0	0	0	0	0	1	1	2	2	
2010484	1	0.20	ZANI RD		1	1	0	0	0	0	0	0	0	0	1	1	2	2	
2010487	1	7.39	STUART RD	20	0	0	0	0	0	0	2	2	0	0	1	1	3	3	
2010496	1	1.36	CHALLIS RD	20	2	2	1	1	2	2	1	1	2	2	0	0	8	8	
2010538	1	2.75	NILSSON RD		2	2	1	1	2	2	1	1	2	2	1	1	9	9	
2010570	1	0.70	BECK RD		0	2	0	2	0	2	0	2	0	2	2	0	2	10	
2010573	1	1.65	BRITTAINE RD		2	2	2	2	2	2	2	2	1	1	0	0	9	9	
2010578	1	0.40	POOLE RD		2	2	2	2	2	2	2	2	2	2	1	1	11	11	
2010578	2	0.86	POOLE RD		2	2	2	2	2	2	2	2	2	1	2	1	1	10	11
2010707	1	0.47	FRESHWATER DRV STH		2	2	2	2	2	2	2	2	2	2	0	0	10	10	
2010709	1	1.97	HORSEFORD RD		2	0	1	1	1	1	1	1	1	1	0	1	6	5	
H043	1	3.74	BUSSELL HWY		2	2	1	1	2	2	1	1	1	1	0	0	7	7	
H043	2	2.99	BUSSELL HWY		2	2	2	2	2	2	2	2	2	2	1	1	11	11	
H043	3	2.70	BUSSELL HWY		1	1	1	1	0	0	1	1	0	0	1	1	4	4	
H043	4	0.50	BUSSELL HWY		1	1	1	1	1	1	1	1	0	0	1	1	5	5	
H043	5	0.60	BUSSELL HWY		2	2	1	1	2	2	2	2	1	1	0	0	8	8	
H043	6	0.60	BUSSELL HWY		1	2	0	1	0	1	0	1	0	0	2	1	3	6	
H043	7	0.70	BUSSELL HWY		2	1	1	1	2	1	1	1	1	0	1	1	7	6	
H043	8	0.50	BUSSELL HWY		1	1	1	1	1	1	0	0	1	1	0	0	4	4	
H043	9	1.10	BUSSELL HWY		2	1	1	1	1	1	0	0	1	1	1	1	6	5	
H043	10	0.28	BUSSELL HWY		1	1	0	0	0	1	0	0	0	1	1	1	2	3	

H043	11	0.22	BUSSELL HWY		2	1	1	1	1	1	2	1	0	0	1	1	7	5	
M027	1	1.35	BROCKMAN HWY		2	2	2	2	2	2	2	2	2	2	0	0	10	10	
M027	2	0.50	BROCKMAN HWY		1	0	1	0	1	0	2	1	0	0	0	2	5	3	
M027	3	2.30	BROCKMAN HWY		1	1	0	0	0	0	1	1	0	0	1	1	3	3	
M027	4	1.30	BROCKMAN HWY		1	2	0	1	0	0	1	1	0	1	1	0	3	5	
M027	5	0.40	BROCKMAN HWY		1	1	0	0	0	0	1	1	0	0	1	1	3	3	
M027	6	0.90	BROCKMAN HWY		2	2	2	2	1	1	2	2	2	2	0	0	9	9	
M027	7	1.20	BROCKMAN HWY		1	1	0	0	0	0	1	1	1	0	1	1	4	3	
M027	8	0.30	BROCKMAN HWY		1	0	0	0	0	0	2	0	1	0	1	1	5	1	
M027	9	0.40	BROCKMAN HWY		1	0	0	0	0	0	0	0	0	0	1	1	2	1	
M027	10	0.30	BROCKMAN HWY		1	0	0	0	0	0	1	1	0	0	1	1	3	2	
M027	11	0.70	BROCKMAN HWY		2	1	1	0	0	0	2	1	0	0	1	1	6	3	
M027	12	0.30	BROCKMAN HWY		2	1	1	0	1	0	2	2	0	1	1	0	7	4	
M043	1	3.43	CAVES RD		2	2	2	2	2	2	2	2	2	2	0	0	10	10	
M043	2	2.10	CAVES RD		2	2	2	2	2	2	2	2	2	2	1	1	11	11	
M043	3	2.98	CAVES RD		2	2	1	1	2	2	1	1	2	2	1	1	9	9	
M043	4	1.87	CAVES RD		2	2	1	1	2	2	1	1	2	2	1	1	9	9	
M043	5	1.40	CAVES RD		2	2	1	1	2	2	1	1	1	1	0	1	7	8	
M043	6	3.30	CAVES RD		2	2	1	1	2	2	2	2	2	2	1	1	10	10	
M043	7	18.00	CAVES RD		2	2	2	2	2	2	2	2	2	2	0	0	10	10	
M043	8	1.00	CAVES RD		2	2	2	2	2	2	1	1	2	2	0	0	9	9	
M043	9	3.10	CAVES RD		2	2	2	2	2	2	2	2	2	1	1	0	0	9	9
M043	10	1.50	CAVES RD		2	2	2	2	2	2	2	2	0	0	0	0	8	8	
M043	11	2.40	CAVES RD		2	2	2	2	2	2	2	2	2	2	0	0	10	10	
M043	12	1.50	CAVES RD		2	2	1	1	2	2	2	2	0	0	1	1	8	8	
M043	13	0.60	CAVES RD		1	1	0	0	1	1	1	1	0	0	1	1	4	4	
M043	14	11.04	CAVES RD		2	2	2	2	2	2	1	1	1	1	0	0	8	8	

Appendix

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APPENDIX 4

Native Plant species in the Shire of Augusta-Margaret River

<i>Acacia alata</i>	<i>Adenanthes barbiger</i> subsp. <i>intermedius</i> ms
<i>Acacia alata</i> var. <i>alata</i>	<i>Adenanthes detmoldii</i> P4
<i>Acacia appianata</i>	<i>Adenanthes meisneri</i>
<i>Acacia assimilis</i> subsp. <i>assimilis</i>	<i>Adenanthes obovatus</i>
<i>Acacia browniana</i>	<i>Adenanthes x pamela</i> P4
<i>Acacia browniana</i> var. ? <i>obscura</i>	<i>Adiantum aethiopicum</i>
<i>Acacia browniana</i> var. <i>browniana</i>	<i>Agonis flexuosa</i>
<i>Acacia browniana</i> var. <i>obscura</i>	<i>Agonis flexuosa</i> var. <i>flexuosa</i>
<i>Acacia cochlearis</i>	<i>Agonis juniperina</i>
<i>Acacia cyclops</i>	<i>Agonis linearifolia</i>
<i>Acacia divergens</i>	<i>Agonis parviceps</i>
<i>Acacia extensa</i>	<i>Agonis</i> sp. Coarse Agonis (J.R.Wheeler 2939)
<i>Acacia flagelliformis</i> P4	<i>Agonis</i> sp. coarse tea-tree (J.R.Wheeler 2939)
<i>Acacia gilbertii</i>	<i>Agonis</i> sp. Lake Jasper (B.Hammersley 567)
<i>Acacia hastulata</i>	<i>Agonis spathulata</i>
<i>Acacia huegelii</i>	<i>Agrostis avenacea</i>
<i>Acacia inops</i> P3	<i>Agrostis plebeia</i>
<i>Acacia lateriticola</i>	<i>Agrostocrinum scabrum</i>
<i>Acacia lateriticola</i> glabrous variant (B.R.Mas P3)	<i>Aira cupaniana</i>
<i>Acacia littorea</i>	<i>Alexgeorgea ganopoda</i> P2
<i>Acacia mooreana</i> P2	* <i>Allium triquetrum</i>
<i>Acacia myrtifolia</i>	* <i>Allium vineale</i>
<i>Acacia nervosa</i>	<i>Allocasuarina fraseriana</i>
<i>Acacia obovata</i>	<i>Allocasuarina humilis</i>
<i>Acacia pentadenia</i>	* <i>Alternanthera nodiflora</i>
<i>Acacia preissiana</i>	<i>Alyogyne huegelii</i>
<i>Acacia pulchella</i>	* <i>Amaryllis belladonna</i>
<i>Acacia pulchella</i> var. <i>glaberrima</i>	* <i>Ammi majus</i>
<i>Acacia pulchella</i> var. <i>goadbyi</i>	* <i>Ammophila arenaria</i>
<i>Acacia pulchella</i> var. <i>pulchella</i>	<i>Amperea ericoides</i>
<i>Acacia saligna</i>	<i>Amperea protensa</i> P2
<i>Acacia scalpelliformis</i>	<i>Amperea simulans</i>
<i>Acacia semitrullata</i> P3	<i>Amperea volubilis</i>
<i>Acacia stenoptera</i>	<i>Amphibolis griffithii</i>
<i>Acacia subracemosa</i> P2	<i>Amphipogon amhipogonoides</i>
<i>Acacia tayloriana</i>	<i>Amphipogon debilis</i>
<i>Acacia tayloriana</i> P4	<i>Amphipogon debilis</i> var. <i>fallax</i>
<i>Acacia tetragonocarpa</i>	<i>Amphipogon laguroides</i>
<i>Acacia tetragonophylla</i>	<i>Amphipogon turbinatus</i>
<i>Acacia uliginosa</i>	* <i>Anagallis arvensis</i>
<i>Acacia urophylla</i>	* <i>Anagallis arvensis</i> var. "unsorted"
<i>Acacia varia</i>	<i>Anarthria gracilis</i>
<i>Acacia varia</i> var. <i>varia</i>	<i>Anarthria laevis</i>
<i>Acacia willdenowiana</i>	<i>Anarthria prolifera</i>
<i>Acanthocarpus preissii</i>	<i>Anarthria scabra</i>
* <i>Acetosella vulgaris</i>	<i>Andersonia</i> aff. <i>caerulea</i>
<i>Acidonia microcarpa</i>	<i>Andersonia auriculata</i> P2
<i>Acrotriche cordata</i>	<i>Andersonia barbata</i>
<i>Actinodium cunninghamii</i>	<i>Andersonia caerulea</i>
<i>Actinostrobus acuminatus</i>	<i>Andersonia heterophylla</i>
<i>Actinotus glomeratus</i>	<i>Andersonia involucrata</i>
<i>Actinotus laxus</i> ms	<i>Andersonia latiflora</i>
<i>Actinotus omnifertilis</i>	<i>Andersonia longifolia</i> P3
<i>Actinotus</i> sp. Walpole (J.R.Wheeler 3786) P3	<i>Andersonia micrantha</i>
<i>Actites megalocarpa</i>	<i>Andersonia</i> sp. Ironstone (B.J.Keighery & N.Gibson Pl)
<i>Adenanthes barbiger</i> subsp. <i>barbiger</i> ms	

<i>Andersonia sprengelioides</i>	<i>Baumea articulata</i>
<i>Angianthus preissianus</i>	<i>Baumea juncea</i>
<i>Anigozanthos flavidus</i>	<i>Baumea preissii subsp. laxa ms</i>
<i>Anigozanthos manglesii</i>	<i>Baumea preissii subsp. preissii ms</i>
<i>Anigozanthos manglesii manglesii</i>	<i>Baumea riparia</i>
<i>Anigozanthos manglesii subsp. manglesii</i>	<i>Baumea rubiginosa</i>
<i>Anigozanthos viridis</i>	<i>Baumea vaginalis</i>
<i>Anigozanthos viridis subsp. viridis</i>	<i>Baxteria australis</i>
<i>Anogramma leptophylla</i>	<i>Beaufortia sparsa</i>
<i>Anthocercis littorea</i>	* <i>Berkheya rigida</i>
<i>Anthotium junciforme P4</i>	* <i>Berula erecta</i>
<i>Anthoxanthum odoratum</i>	<i>Billardiera candida</i>
<i>Aotus carinata P4</i>	<i>Billardiera drummondiana var. collina</i>
<i>Aotus cordifolia P3</i>	<i>Billardiera floribunda</i>
<i>Aotus gracillima</i>	<i>Billardiera laxiflora</i>
<i>Aotus intermedia</i>	<i>Billardiera parviflora</i>
<i>Aotus sp. Scott River(K.F.Kenneally 2371)</i>	<i>Billardiera parviflora var. parviflora</i>
<i>Aphelia cyperoides</i>	<i>Billardiera variifolia</i>
<i>Aphelia drummondii</i>	<i>Blennospora sp.Ruabon(B.J.Keighery & N.Gibson 20)</i>
<i>Apium annum</i>	<i>Bolboschoenus caldwellii</i>
<i>Apium prostratum var. filiforme</i>	<i>Boronia alata</i>
<i>Apium prostratum var. prostratum</i>	<i>Boronia anceps P3</i>
* <i>Arctotheca calendula</i>	<i>Boronia crenulata</i>
* <i>Arctotheca populifolia</i>	<i>Boronia crenulata subsp. pubescens</i>
* <i>Asparagus asparagoides</i>	<i>Boronia crenulata subsp. pubescens ms</i>
<i>Asplenium trichomanes</i>	<i>Boronia crenulata subsp. viminea ms</i>
<i>Astartea fascicularis</i>	<i>Boronia crenulata var. crenulata</i>
<i>Astartea sp.Brixton Rd(G.J.Keighery 5389)</i>	<i>Boronia defoliata</i>
<i>Astartea sp.Gingalup(N.Gibson & M.Lyons 119)</i>	<i>Boronia denticulata</i>
<i>Astartea sp.Scott River(D.Backshall 88233) P4</i>	<i>Boronia dichotoma</i>
<i>Astartea sp.wing tips(M.E.Trudgen 12044)</i>	<i>Boronia exilis ms R</i>
* <i>Aster subulatus</i>	<i>Boronia fastigiata subsp. tenuior</i>
<i>Asteridea pulverulenta</i>	<i>Boronia fastigiata subsp. tenuior ms</i>
<i>Asterolasia pallida subsp. pallida</i>	<i>Boronia gracilipes</i>
<i>Asterolasia squamuligera</i>	<i>Boronia juncea</i>
<i>Astroloma ciliatum</i>	<i>Boronia juncea subsp. micrantha ms</i>
<i>Astroloma drummondii</i>	<i>Boronia juncea subsp. minima</i>
<i>Astroloma pallidum</i>	<i>Boronia juncea subsp. minima ms</i>
<i>Astroloma sp.Nannup(R.D.Royce 3978) P4</i>	<i>Boronia megastigma</i>
<i>Atriplex hypoleuca</i>	<i>Boronia molloyae</i>
<i>Austrodanthonia acerosa</i>	<i>Boronia spathulata</i>
<i>Austrodanthonia pilosa</i>	<i>Boronia stricta</i>
<i>Austrostipa compressa</i>	<i>Boronia tetragona P3</i>
<i>Austrostipa flavescens</i>	<i>Borya constricta</i>
<i>Austrostipa semibarbata</i>	<i>Bossiaea aquifolium subsp. aquifolium</i>
* <i>Avellinia michelii</i>	<i>Bossiaea aquifolium subsp. laidlawiana</i>
* <i>Axonopus affinis</i>	<i>Bossiaea disticha P3</i>
<i>Babiana angustifolia</i>	<i>Bossiaea linophylla</i>
<i>Banksia chamaephyton P4</i>	<i>Bossiaea ornata</i>
<i>Banksia grandis</i>	<i>Bossiaea praetermissa</i>
<i>Banksia ilicifolia</i>	<i>Bossiaea pulchella</i>
<i>Banksia incana</i>	<i>Bossiaea rufa</i>
<i>Banksia littoralis</i>	<i>Brachyloma preissii</i>
<i>Banksia meisneri subsp. ascendens P4</i>	<i>Brachyscome iberidifolia</i>
<i>Banksia meisneri subsp. meisneri</i>	<i>Brachysema modestum R</i>
<i>Banksia occidentalis</i>	* <i>Briza maxima</i>
<i>Banksia occidentalis subsp. occidentalis</i>	* <i>Briza minor</i>
<i>Banksia seminuda</i>	* <i>Bromus diandrus</i>
* <i>Bartsia trixago</i>	<i>Burchardia congesta</i>
<i>Baumea acuta</i>	<i>Burchardia multiflora</i>
<i>Baumea arthrophylla</i>	<i>Caesia micrantha</i>
	<i>Caesia occidentalis</i>

Caesia parviflora
 * *Cakile maritima*
Caladenia abbreviata ms P2
Caladenia applanata subsp. *applanata* ms
Caladenia arrecta ms P4
Caladenia attingens subsp. *attingens* ms
Caladenia bicalliata
Caladenia brownii ms
Caladenia cairnsiana
Caladenia chapmani ms
Caladenia citrina ms
Caladenia corynephora
Caladenia excelsa ms R
Caladenia ferruginea
Caladenia flava
Caladenia flava subsp. *flava* ms
Caladenia flava subsp. *sylvestris* ms
Caladenia gardneri ms
Caladenia georgei ms
Caladenia heberleana ms
Caladenia hirta subsp. *hirta* ms
Caladenia huegelii R
Caladenia infundibularis
Caladenia latifolia
Caladenia lodgeana ms
Caladenia longicauda subsp. *merrittii* ms
Caladenia longiclavata
Caladenia macrostylis
Caladenia magniclavata
Caladenia marginata
Caladenia nana
Caladenia nana subsp. *nana* ms
Caladenia nana subsp. *unita* ms
Caladenia paludosa ms
Caladenia pholcoidea ms
Caladenia reptans subsp. *reptans* ms
Caladenia rhomboidiformis
Caladenia serotina ms
Calandrinia corrigooides
Callistachys lanceolata
Callistemon glaucus
Calothamnus lateralis
Calothamnus lehmannii
Calothamnus pallidifolius P3
Calothamnus sanguineus
Calothamnus schaueri
Calothamnus sp. Scott River(R.D.Royce 84)
 P2
Calycopeplus oligandrus
Calystegia soldanella
Calytrix flavescens
Calytrix tenuiramea
Calytrix tetragona
 * *Cardamine hirsuta*
Carex appressa
Carex inversa
Carex preissii
Carpobrotus virescens
Cassytha flava
Cassytha glabella
Cassytha micrantha
Cassytha pomiformis
Cassytha racemosa
Cassytha racemosa forma *pilosa*
Cassytha racemosa forma *racemosa*
 * *Centaurium erythraea*
 * *Centaurium tenuiflorum*
Centella asiatica
Centipeda cunninghamii
Centrolepis aristata
Centrolepis drummondiana
Centrolepis fascicularis
Centrolepis polygyna
Cephalotus follicularis
 * *Cerastium glomeratum*
Chaetanthus leptocarpoides
Chaetanthus tenellus
Chamaescilla corymbosa
Chamaescilla corymbosa var. *corymbosa*
Chamaescilla spiralis
Chamaelaucium erythrochlorum ms P4
Cheilanthes austrotenuifolia
Cheilanthes sieberi subsp. *sieberi*
Cheiranthera preissiana subsp. "unsorted"
Cheiranthera preissiana var. *planifolia*
 * *Chenopodium glaucum*
 * *Chenopodium murale*
 * *Chenopodium pumilio*
Chordifex amblycoleus ms
Chordifex gracilior ms P3
Chordifex isomorphus ms P2
Chordifex jacksonii ms P1
Chorilaena quercifolia
Chorizandra cymbalaria
Chorizandra enodis
Chorizandra multiarticulata P3
Chorizema cordatum
Chorizema diversifolium
Chorizema glycinifolium
Chorizema ilicifolium
Chorizema nanum
Chorizema reticulatum P3
Chorizema rhombeum
Chorizema spathulatum
 * *Chrysanthemum segetum*
 * *Cicendia filiformis*
 * *Cirsium vulgare*
Clematis pubescens
Comesperma calymega
Comesperma ciliatum
Comesperma confertum
Comesperma flavum
Comesperma nudiusculum
Comesperma virgatum
Conospermum acerosum subsp. *acerosum*
Conospermum caeruleum
Conospermum caeruleum subsp. *caeruleum*
Conospermum caeruleum subsp. *debile*
Conospermum caeruleum subsp. *marginatum*
Conospermum caeruleum subsp. *marginatum*
 ms
Conospermum caeruleum subsp. *spathulatum*
Conospermum capitatum
Conospermum capitatum subsp. *capitatum*
Conospermum capitatum subsp. *glabratum*
Conospermum crassinervium

Conospermum flexuosum
Conospermum flexuosum subsp. *laevigatum*
Conospermum paniculatum P3
Conospermum quadripetalum P2
Conospermum stoechadis
Conospermum teretifolium
Conostephium pendulum
Conostylis aculeata
Conostylis aculeata subsp. *aculeata*
Conostylis aculeata subsp. *preissii*
Conostylis candicans
Conostylis candicans subsp. *calcicola*
Conostylis juncea
Conostylis laxiflora
Conostylis serrulata
Conostylis setigera
Conostylis setigera subsp. *setigera*
* *Conyza albida*
* *Conyza parva*
* *Coronopus didymus*
* *Corriola litoralis*
Corybas recurvus
Corymbia calophylla
Corymbia haematoxylon
Corynotheca micrantha
Cosmelia rubra
* *Cotula australis*
* *Cotula coronopifolia*
* *Cotula turbinata*
Craspedia variabilis
Crassula colorata var. *acuminata*
Crassula colorata var. *colorata*
Crassula glomerata
Crassula sieberiana subsp. *tetramera*
Crassula thunbergiana subsp. *thunbergiana*
* *Crepis capillaris*
* *Crotalaria agatiflora* subsp. *agatiflora*
Cryptandra arbutiflora var. *arbutiflora*
Cryptandra arbutiflora var. *tubulosa*
Cryptostylis ovata
* *Cuscuta epithymum*
Cyanicula deformis ms
Cyanicula sericea ms
Cyathochaeta avenacea
Cyathochaeta clandestina
Cyathochaeta equitans
Cyathochaeta stipoides P3
Cyathochaeta teretifolia P3
* *Cynosurus echinatus*
* *Cyperus congestus*
* *Cyperus eragrostis*
Cyperus gymnocaulos
* *Cyperus laevigatus*
* *Cyperus tenellus*
Cyrtostylis huegelii
Cyrtostylis robusta
Cytogonium leptocarpoides ms
* *Dactylis glomerata*
Dampiera alata
Dampiera hederacea
Dampiera heteroptera P3
Dampiera leptoclada
Dampiera linearis
Dampiera trigona
Danthonia caespitosa
Darwinia citriodora
Darwinia ferricola ms R
Darwinia oederoides
Darwinia sp. Williamson(G.J.Keighery
12717) R
Darwinia vestita
Dasygordon bromeliifolius
Dasygordon hookeri
* *Datura stramonium*
Daucus glochidiatus
Daviesia angulata
Daviesia cordata
Daviesia costata
Daviesia decurrens
Daviesia flexuosa
Daviesia horrida
Daviesia inflata
Daviesia longifolia
Daviesia obovata P2
Daviesia preissii
Daviesia rhombifolia
Desmazeria rigida
Desmocladus castaneus ms
Desmocladus fasciculatus ms
Desmocladus flexuosus
Desmocladus flexuosus ms
Deyeuxia quadrisetata
Dianella brevicaulis
Dianella revoluta
Diaspasis filifolia
Dichelachne crinita
Dichondra repens
Dichopogon preissii
* *Digitaria sanguinalis*
Dillwynia uncinata
Dillwynia uncinata var. Capel(R.D.Royce
4853)
Diplolaena dampieri
Diplopogon setaceus
* *Diplotaxis muralis*
* *Dipogon lignosus*
* *Dischisma arenarium*
Diuris laevis
Diuris longifolia
Diuris magnifica
Dodonaea ceratocarpa
Dodonaea viscosa
Dodonaea viscosa subsp. *angustissima*
Drakaea glyptodon
Drakaea livida
Drakaea micrantha ms R
Drakaea thynniphila
Drosanthemum candens
Drosera bulbosa
Drosera enodes
Drosera erythrorhiza
Drosera erythrorhiza subsp. *collina*
Drosera erythrorhiza subsp. *erythrorhiza*
Drosera gigantea subsp. *geniculata*
Drosera glanduligera
Drosera hamiltonii

<i>Drosera huegelii</i>	<i>Eucalyptus megacarpa</i>
<i>Drosera macrantha</i> subsp. <i>macrantha</i>	<i>Eucalyptus patens</i>
<i>Drosera menziesii</i>	<i>Eucalyptus rудis</i> subsp. <i>cratyantha</i> P4
<i>Drosera menziesii</i> subsp. <i>menziesii</i>	<i>Euchilopsis linearis</i>
<i>Drosera menziesii</i> subsp. <i>penicillaris</i>	<i>Euchiton gymnocephalus</i> P3
<i>Drosera modesta</i>	<i>Euchiton sphaericus</i>
<i>Drosera myriantha</i>	* <i>Euphorbia helioscopia</i>
<i>Drosera neesii</i> subsp. <i>neesii</i>	* <i>Euphorbia peplus</i>
<i>Drosera pallida</i>	<i>Euphrasia scabra</i> P2
<i>Drosera platypoda</i>	<i>Eutaxia densifolia</i>
<i>Drosera platystigma</i>	<i>Eutaxia epacridoides</i>
<i>Drosera pulchella</i>	<i>Eutaxia obovata</i>
<i>Drosera stelliflora</i>	<i>Eutaxia virgata</i>
<i>Drosera stolonifera</i> subsp. <i>stolonifera</i>	<i>Evandra aristata</i>
<i>Dryandra armata</i>	<i>Evandra pauciflora</i>
<i>Dryandra bipinnatifida</i> subsp. <i>bipinnatifida</i>	<i>Exocarpos odoratus</i>
<i>Dryandra formosa</i>	<i>Exocarpos sparteus</i>
<i>Dryandra lindleyana</i> subsp. <i>sylvestris</i>	* <i>Falllopia convolvulus</i>
<i>Dryandra lindleyana</i> var. <i>lindleyana</i>	* <i>Ferraria crispa</i> subsp. <i>crispa</i>
<i>Dryandra mimica</i> R	* <i>Festuca arundinacea</i>
<i>Dryandra nivea</i> subsp. <i>uliginosa</i> R	* <i>Ficus carica</i>
<i>Dryandra sessilis</i> var. <i>cordata</i> P2	<i>Fimbristylis velata</i>
<i>Dryandra squarrosa</i> subsp. <i>argillacea</i> R	* <i>Foeniculum vulgare</i>
<i>Dryandra squarrosa</i> subsp. <i>squarrosa</i>	<i>Franklandia fucifolia</i>
<i>Dysphania glomulifera</i> subsp. <i>glomulifera</i>	<i>Franklandia triaristata</i> P4
* <i>Echinochloa crusgalli</i>	* <i>Freesia hybrid</i>
<i>Echinopogon ovatus</i>	* <i>Fumaria bastardii</i>
* <i>Echium plantagineum</i>	* <i>Fumaria capreolata</i>
* <i>Ehrharta erecta</i>	* <i>Fumaria muralis</i>
* <i>Ehrharta villosa</i>	<i>Gahnia decomposita</i>
<i>Elythranthera brunonis</i>	<i>Gahnia lanigera</i>
<i>Elythranthera emarginata</i>	<i>Gahnia trifida</i>
<i>Empodium gracillimum</i>	* <i>Galium divaricatum</i>
<i>Epiblema grandiflorum</i> var. <i>grandiflorum</i>	<i>Galium migrans</i> P3
ms	* <i>Galium murale</i>
<i>Epilobium billardierianum</i>	<i>Gastrolobium bilobum</i>
<i>Epilobium billardierianum</i> subsp. <i>billardierianum</i>	<i>Gastrolobium forrestii</i>
<i>Epilobium billardierianum</i> subsp. <i>intermedium</i>	* <i>Gazania linearis</i>
<i>Epilobium hirtigerum</i>	* <i>Genista linifolia</i>
<i>Eragrostis brownii</i>	<i>Genista monspessulana</i>
<i>Eremosyne pectinata</i>	* <i>Geranium dissectum</i>
<i>Erigeron karvinskianus</i>	<i>Geranium solanderi</i>
<i>Eriochilus dilatatus</i>	* <i>Gladiolus angustus</i>
<i>Eriochilus dilatatus</i> subsp. <i>dilatatus</i> ms	* <i>Gladiolus cardinalis</i>
<i>Eriochilus dilatatus</i> subsp. <i>magnus</i> ms	<i>Glischrocaryon aureum</i> var. <i>angustifolium</i>
<i>Eriochilus dilatatus</i> subsp. <i>multiflorus</i>	<i>Glyceria australis</i>
ms	<i>Glyceria declinata</i>
<i>Eriochilus helonomos</i> ms	<i>Gnaphalium indutum</i>
<i>Eriochilus scaber</i> subsp. <i>scaber</i> ms	<i>Gompholobium amplexicaule</i>
<i>Eriostemon spicatus</i>	<i>Gompholobium capitatum</i>
* <i>Erodium cicutarium</i>	<i>Gompholobium confertum</i>
<i>Eryngium pinnatifidum</i>	<i>Gompholobium knightianum</i>
* <i>Eschscholzia californica</i>	<i>Gompholobium marginatum</i>
<i>Eucalyptus calcicola</i> P4	<i>Gompholobium ovatum</i>
<i>Eucalyptus cornuta</i>	<i>Gompholobium polymorphum</i>
<i>Eucalyptus decipiens</i> subsp. <i>chalara</i>	<i>Gompholobium preissii</i>
<i>Eucalyptus diversicolor</i>	<i>Gompholobium scabrum</i>
<i>Eucalyptus marginata</i>	<i>Gompholobium tomentosum</i>
<i>Eucalyptus marginata</i> subsp. <i>marginata</i>	<i>Gompholobium venustum</i>
<i>Eucalyptus marginata</i> x <i>megacarpa</i> P4	<i>Gompholobium villosum</i>
	<i>Gonocarpus benthamii</i>
	<i>Gonocarpus benthamii</i> subsp. <i>benthamii</i> ms
	<i>Gonocarpus diffusus</i>

Gonocarpus hexandrus subsp. "unsorted"	Hardenbergia comptoniana
Gonocarpus hexandrus subsp. integrifolius	* Hedypnois rhagadioloides
Gonocarpus hexandrus subsp. serratus	Helichrysum macranthum
Gonocarpus paniculatus	* Heliophila pusilla
Gonocarpus pithyoides	Hemarthria uncinata var. uncinata
Gonocarpus pusillus P3	Hemiandra glabra
Goodenia caerulea	Hemiandra pungens
Goodenia claytoniacea	Hemigenia obovata P1
Goodenia eatoniana	Hemigenia rigida
Goodenia filiformis	Hemigenia sp.Albany(G.J.Keighery 8712)
Goodenia incana	Hibbertia acerosa
Goodenia leptoclada	Hibbertia amplexicaulis
Goodenia pulchella	Hibbertia aurea
Goodenia pusilla	Hibbertia commutata
Grammatotheca bergiana	Hibbertia cuneiformis
Gratiola peruviana	Hibbertia cunninghamii
Gratiola pubescens	Hibbertia ferruginea
Grevillea agrifolia	Hibbertia furfuracea
Grevillea brachystylis	Hibbertia furfuracea
Grevillea brachystylis subsp. australis	Hibbertia glomerata
P2	Hibbertia gracilipes
Grevillea bronwenae	Hibbertia grossulariifolia
Grevillea centristigma	Hibbertia huegelii
Grevillea cirsiifolia P4	Hibbertia hypericoides
Grevillea diversifolia	Hibbertia inconspicua
Grevillea manglesioides	Hibbertia lasiopus
Grevillea papillosa P3	Hibbertia pachyrrhiza
Grevillea pulchella	Hibbertia perfoliata
Grevillea pulchella subsp. ascendens	Hibbertia pilosa
Grevillea pulchella subsp. ascendens ms	Hibbertia quadricolor
Grevillea pulchella subsp. pulchella	Hibbertia racemosa
Grevillea quercifolia	Hibbertia recurvifolia
Grevillea shuttleworthiana subsp.	Hibbertia rhadinopoda
canarina P2	Hibbertia serrata
Grevillea sp.Scott River(G.J.Keighery 4070) P1	Hibbertia sp.Darling Range(R.D.Royce 5741)
Grevillea trifida	Hibbertia sp.hairy sepals(J.R.Wheeler 2464)
Gymnoschoenus anceps	Hibbertia sp.rigid bracts(J.R.Wheeler 3220)
Haemodorum discolor	Hibbertia spicata
Haemodorum laxum	Hibbertia stellaris
Haemodorum paniculatum	Hibbertia vaginata
Haemodorum simplex	Hirschfeldia incana
Haemodorum sparsiflorum	Hodgsoniola junciformis
Haemodorum spicatum	* Holcus lanatus
Hakea amplexicaulis	* Holcus setiger
Hakea ceratophylla	Homalosciadium homalocarpum
Hakea cyclocarpa	Homalospermum firmum
Hakea cygna subsp. cygna	* Homeria flaccida
Hakea falcata	* Hordeum glaucum
Hakea lasiantha	Hornungia procumbens
Hakea lasianthoides	Hovea chorizemifolia
Hakea linearis	Hovea elliptica
Hakea lissocarpa	Hovea pungens
Hakea oleifolia	Hovea stricta
Hakea prostrata	Hovea trisperma
Hakea ruscifolia	Hyalosperma cotula
Hakea sulcata	Hyalosperma pusillum
Hakea trifurcata	Hyalosperma simplex subsp. simplex
Hakea tuberculata P2	Hybanthus debilissimus
Hakea varia	Hybanthus volubilis P2
Haloragis brownii	Hydatella dioica R
Haloragis digyna	
Halosarcia lepidosperma	

<i>Hydrocotyle alata</i>	<i>Juncus holoschoenus</i>
<i>Hydrocotyle blepharocarpa</i>	<i>Juncus kraussii</i>
<i>Hydrocotyle callicarpa</i>	<i>Juncus kraussii</i> subsp. <i>australiensis</i>
<i>Hydrocotyle diantha</i>	* <i>Juncus microcephalus</i>
<i>Hydrocotyle hirta</i>	<i>Juncus pallidus</i>
<i>Hydrocotyle hispidula</i>	<i>Juncus pauciflorus</i>
<i>Hydrocotyle pilifera</i>	<i>Juncus planifolius</i>
<i>Hydrocotyle pilifera</i> var. <i>glabrata</i>	<i>Juncus subsecundus</i>
<i>Hydrocotyle pilifera</i> var. <i>pilifera</i>	* <i>Juncus usitatus</i>
<i>Hydrocotyle plebeya</i>	<i>Kennedia carinata</i>
<i>Hydrocotyle tetragonocarpa</i>	<i>Kennedia coccinea</i>
* <i>Hyparrhenia hirta</i>	<i>Kennedia macrophylla</i> R
* <i>Hypericum perforatum</i>	<i>Kingia australis</i>
<i>Hypericum perforatum</i> var. "unsorted"	<i>Kunzea ciliata</i>
<i>Hypericum perforatum</i> var. <i>angustifolium</i>	<i>Kunzea glabrescens</i>
<i>Hypocalymma angustifolium</i>	<i>Kunzea micrantha</i>
<i>Hypocalymma cordifolium</i>	<i>Kunzea micrantha</i> subsp. <i>micrantha</i>
<i>Hypocalymma ericifolium</i>	<i>Kunzea recurva</i>
<i>Hypocalymma robustum</i>	<i>Kunzea rostrata</i>
<i>Hypocalymma scariosum</i>	<i>Kunzea spathulata</i> ms
<i>Hypocalymma</i> sp. Scott River (A.S. George 11773) P4	<i>Kunzea sulphurea</i>
<i>Hypocalymma strictum</i>	<i>Labichea lanceolata</i>
* <i>Hypochaeris glabra</i>	<i>Labichea punctata</i>
* <i>Hypochaeris radicata</i>	<i>Lachnostachys albicans</i>
<i>Hypolaena caespitosa</i> ms	<i>Lagenifera huegelii</i>
<i>Hypolaena exsulca</i>	* <i>Lagurus ovatus</i>
<i>Hypolaena fastigiata</i>	<i>Lambertia orbifolia</i> R
<i>Hypolaena pubescens</i>	<i>Lambertia rariflora</i> subsp. <i>rariflora</i> P4
<i>Hypolaena viridis</i> ms	<i>Lasiopetalum floribundum</i>
<i>Hypoxis glabella</i> var. <i>glabella</i>	<i>Lathyrus tingitanus</i>
<i>Hypoxis occidentalis</i>	<i>Latrobea diosmifolia</i>
<i>Hypoxis occidentalis</i> var. <i>quadriloba</i>	<i>Latrobea tenella</i>
* <i>Iris germanica</i>	<i>Latrobea tenella</i> var. <i>tenella</i>
<i>Isolepis cernua</i>	<i>Laxmannia jamesii</i> R
<i>Isolepis cyperoides</i>	<i>Laxmannia sessiliflora</i>
* <i>Isolepis marginata</i>	<i>Laxmannia sessiliflora</i> subsp. <i>australis</i>
<i>Isolepis nodosa</i>	<i>Laxmannia squarrosa</i>
* <i>Isolepis prolifera</i>	<i>Lechenaultia biloba</i>
<i>Isolepis setiformis</i>	<i>Lechenaultia expansa</i>
<i>Isopogon attenuatus</i>	* <i>Leontodon saxatilis</i>
<i>Isopogon axillaris</i>	<i>Lepidium rotundum</i>
<i>Isopogon formosus</i> subsp. <i>dasytropis</i> P3	<i>Lepidosperma angustatum</i>
<i>Isopogon sphaerocephalus</i>	<i>Lepidosperma effusum</i>
<i>Isotoma hypocrateriformis</i>	<i>Lepidosperma gladiatum</i>
<i>Isotoma scapigera</i>	<i>Lepidosperma gracile</i>
<i>Isotropis cuneifolia</i>	<i>Lepidosperma leptostachyum</i>
* <i>Ixia paniculata</i>	<i>Lepidosperma leptostachyum</i>
<i>Ixiolaena viscosa</i>	<i>Lepidosperma longitudinale</i>
<i>Jacksonia aff. horrida</i>	<i>Lepidosperma pubisquamatum</i>
<i>Jacksonia furcellata</i>	<i>Lepidosperma resinorum</i>
<i>Jacksonia horrida</i>	<i>Lepidosperma squamatum</i>
<i>Jacksonia sparsa</i> ms P3	<i>Lepidosperma tenue</i>
<i>Jansonia formosa</i> P3	<i>Lepidosperma tetraquetrum</i>
<i>Johnsonia acaulis</i>	<i>Lepidosperma tuberculatum</i>
<i>Johnsonia inconspicua</i> P1	<i>Lepidosperma viscidum</i>
<i>Johnsonia lupulina</i>	<i>Lepilaena cylindrocarpa</i>
<i>Juncus amabilis</i>	<i>Leptinella drummondii</i> P2
<i>Juncus aridicola</i>	<i>Leptocarpus crebriculmis</i> ms
* <i>Juncus articulatus</i>	<i>Leptocarpus diffusus</i> ms
* <i>Juncus bufonius</i>	<i>Leptocarpus elegans</i> ms
<i>Juncus caespiticius</i>	<i>Leptocarpus ramosissimus</i> ms
* <i>Juncus capitatus</i>	<i>Leptocarpus roycei</i> ms
	<i>Leptocarpus scariosus</i>

<i>Leptocarpus tenax</i>	<i>Lobelia alata</i> var. <i>alata</i>
<i>Leptocarpus tephrinus</i> ms	<i>Lobelia gibbosa</i>
<i>Leptoceras menziesii</i>	<i>Lobelia heterophylla</i>
<i>Leptomeria cunninghamii</i>	<i>Lobelia rhombifolia</i>
<i>Leptomeria dielsiana</i> R	<i>Lobelia tenuior</i>
<i>Leptomeria ellytes</i> ms	* <i>Lobularia maritima</i>
<i>Leptomeria furtiva</i> ms P2	<i>Logania campanulata</i>
<i>Leptomeria lehmannii</i>	<i>Logania glabra</i> ms
<i>Leptomeria pauciflora</i>	<i>Logania serpyllifolia</i>
<i>Leptomeria scrobiculata</i>	<i>Logania serpyllifolia</i> subsp. <i>angustifolia</i>
<i>Leptomeria squarrulosa</i>	<i>Logania serpyllifolia</i> subsp.
<i>Leptorhynchos scaber</i>	<i>serpyllifolia</i>
* <i>Leptospermum laevigatum</i>	<i>Logania spermacocea</i>
<i>Lepyrodia aff. riparia</i> ms	<i>Logania vaginalis</i>
<i>Lepyrodia drummondiana</i>	* <i>Lolium multiflorum</i>
<i>Lepyrodia glauca</i>	* <i>Lolium temulentum</i>
<i>Lepyrodia heleocharoides</i> P3	<i>Lomandra caespitosa</i>
<i>Lepyrodia hermaphrodita</i>	<i>Lomandra drummondii</i>
<i>Lepyrodia macra</i>	<i>Lomandra hermaphrodita</i>
<i>Lepyrodia muirii</i>	<i>Lomandra integra</i>
<i>Lepyrodia porterae</i> ms	<i>Lomandra micrantha</i> subsp. <i>micrantha</i>
<i>Leucanthemum maximum</i>	<i>Lomandra nigricans</i>
<i>Leucophyta brownii</i>	<i>Lomandra nutans</i>
<i>Leucopogon aff. pendulus</i>	<i>Lomandra pauciflora</i>
<i>Leucopogon aff. propinquus</i>	<i>Lomandra preissii</i>
<i>Leucopogon alternifolius</i>	<i>Lomandra purpurea</i>
<i>Leucopogon assimilis</i>	<i>Lomandra sericea</i>
<i>Leucopogon atherolepis</i>	<i>Lomandra sonderi</i>
<i>Leucopogon australis</i>	<i>Lomandra suaveolens</i>
<i>Leucopogon capitellatus</i>	* <i>Lotus angustissimus</i>
<i>Leucopogon cinereus</i>	* <i>Lotus suaveolens</i>
<i>Leucopogon conostephioides</i>	* <i>Lotus uliginosus</i>
<i>Leucopogon cordatus</i>	<i>Loxocarya cinerea</i>
<i>Leucopogon distans</i>	<i>Loxocarya flexuosa</i>
<i>Leucopogon distans</i> subsp. <i>contractus</i>	<i>Loxocarya magna</i> P3
<i>Leucopogon distans</i> subsp. <i>contractus</i> ms	<i>Loxocarya</i> sp. Rosa Brook (R.D.Royce 2465)
<i>Leucopogon distans</i> subsp. <i>distans</i> ms	<i>Luzula meridionalis</i>
<i>Leucopogon elatior</i>	<i>Lyginia barbata</i>
<i>Leucopogon elegans</i>	<i>Lyperanthus serratus</i>
<i>Leucopogon gilbertii</i>	<i>Lysinema ciliatum</i>
<i>Leucopogon glabellus</i>	<i>Lysinema ciliatum forma</i>
<i>Leucopogon hirsutus</i>	<i>Lysinema conspicuum</i>
<i>Leucopogon obovatus</i>	* <i>Lythrum hyssopifolia</i>
<i>Leucopogon parviflorus</i>	<i>Macrozamia riedlei</i>
<i>Leucopogon pendulus</i>	<i>Marianthus candidus</i>
<i>Leucopogon propinquus</i>	* <i>Medicago arabica</i>
<i>Leucopogon racemosus</i>	* <i>Medicago polymorpha</i>
<i>Leucopogon reflexus</i>	<i>Meeboldina coangustata</i> ms
<i>Leucopogon revolutus</i>	<i>Meeboldina crebriculmis</i> ms
<i>Leucopogon</i> sp. Windy Harbour (A.Strid 21460)	<i>Meeboldina denmarkica</i>
<i>Leucopogon tenuicaulis</i> ms	<i>Meeboldina roycei</i> ms
<i>Leucopogon unilateralis</i>	<i>Meeboldina scariosa</i> ms
<i>Leucopogon verticillatus</i>	<i>Meeboldina tephrina</i> ms
<i>Levenhookia dubia</i>	<i>Meeboldina thysanantha</i> ms P3
<i>Levenhookia pauciflora</i>	<i>Melaleuca acerosa</i>
<i>Levenhookia preissii</i>	<i>Melaleuca basicepsala</i> P4
<i>Levenhookia pusilla</i>	<i>Melaleuca cordata</i>
* <i>Limonium sinuatum</i>	<i>Melaleuca cuticularis</i>
<i>Lindsaea linearis</i>	<i>Melaleuca densa</i>
<i>Linum marginale</i>	<i>Melaleuca huegelii</i> subsp. <i>huegelii</i>
* <i>Linum trigynum</i>	<i>Melaleuca incana</i>
<i>Lobelia alata</i>	<i>Melaleuca incana</i> subsp. <i>Gingilup</i> (N.Gibson & M.Lyons 593) P2

<i>Melaleuca incana</i> subsp. <i>incana</i>	<i>Opercularia vaginata</i>
<i>Melaleuca lanceolata</i> subsp. "unsorted"	<i>Opercularia volubilis</i>
<i>Melaleuca lateritia</i>	* <i>Ornithopus pinnatus</i>
<i>Melaleuca pauciflora</i>	* <i>Orobanche minor</i>
<i>Melaleuca preissiana</i>	<i>Orthrosanthus laxus</i>
<i>Melaleuca raphiophylla</i>	<i>Orthrosanthus laxus</i> var. <i>laxus</i>
<i>Melaleuca ringens</i> P2	<i>Orthrosanthus polystachyus</i>
<i>Melaleuca thymoides</i>	* <i>Ottelia ovalifolia</i> subsp. <i>ovalifolia</i>
<i>Melaleuca viminea</i>	* <i>Oxalis corniculata</i>
<i>Melaleuca viminea</i> subsp. <i>viminea</i>	* <i>Oxalis glabra</i>
<i>Melanostachya ustulata</i> ms	* <i>Oxalis incarnata</i>
<i>Melilotus indicus</i>	* <i>Oxalis purpurea</i>
<i>Mentha pulegium</i>	<i>Oxylobium lineare</i>
* <i>Mentha spicata</i>	<i>Ozothamnus cordatus</i>
* <i>Mentha suaveolens</i>	<i>Ozothamnus ramosus</i>
* <i>Mercurialis annua</i>	<i>Paraserianthes lophantha</i> subsp. <i>lophantha</i>
<i>Mesomelaena graciliceps</i>	* <i>Parentucellia latifolia</i>
<i>Mesomelaena preissii</i>	* <i>Parietaria debilis</i>
<i>Mesomelaena tetragona</i>	* <i>Paspalum dilatatum</i>
<i>Meziella trifida</i> R	* <i>Paspalum vaginatum</i>
<i>Microtis alba</i>	* <i>Passiflora filiformis</i>
<i>Microtis atrata</i>	<i>Patersonia babianoides</i>
<i>Microtis brownii</i>	<i>Patersonia limbata</i>
<i>Microtis media</i>	<i>Patersonia occidentalis</i>
<i>Microtis media</i> subsp. <i>densiflora</i>	<i>Patersonia</i> sp. Swamp Form(N.Gibson & M.Lyons 544)
<i>Microtis media</i> subsp. <i>eremicola</i>	<i>Patersonia umbrosa</i>
<i>Microtis media</i> subsp. <i>media</i>	<i>Patersonia umbrosa</i> var. "unsorted"
<i>Millotia myosotidifolia</i>	<i>Patersonia umbrosa</i> var. <i>xanthina</i>
<i>Millotia tenuifolia</i> var. <i>tenuifolia</i>	* <i>Pelargonium alchemilloides</i>
<i>Mirbelia dilatata</i>	<i>Pelargonium australe</i>
* <i>Modiola caroliniana</i>	* <i>Pelargonium capitatum</i>
* <i>Monadenia bracteata</i>	<i>Pelargonium littorale</i>
* <i>Monopsis debilis</i>	<i>Pelargonium littorale</i> subsp. <i>littorale</i>
<i>Monotaxis grandiflora</i>	* <i>Pennisetum clandestinum</i>
<i>Monotaxis occidentalis</i>	* <i>Pennisetum macrourum</i>
* <i>Muehlenbeckia adpressa</i>	<i>Pentapeltis peltigera</i>
<i>Myoporum oppositifolium</i>	<i>Pentapeltis silvatica</i>
<i>Myosotis discolor</i>	* <i>Pentzia suffruticosa</i>
* <i>Myriophyllum aquaticum</i>	<i>Pericalymma crassipes</i>
<i>Myriophyllum crispatum</i>	<i>Pericalymma ellipticum</i>
<i>Myriophyllum salsuginineum</i>	<i>Pericalymma ellipticum</i> var. <i>ellipticum</i> ms
* <i>Narcissus pseudonarcissus</i>	<i>Pericalymma megaphyllum</i> ms
<i>Needhamiella pumilio</i>	<i>Pericalymma spongiosa</i> ms
<i>Nemcia capitata</i>	<i>Persicaria decipiens</i>
<i>Nemcia lehmannii</i> X	<i>Persicaria hydropiper</i>
<i>Nemcia retusa</i>	<i>Persicaria prostrata</i>
<i>Neurachne alopecuroidea</i>	<i>Persoonia elliptica</i>
* <i>Nicandra physalodes</i>	<i>Persoonia graminea</i>
<i>Notodanthonia caespitosa</i>	<i>Persoonia longifolia</i>
<i>Notodanthonia occidentalis</i>	<i>Persoonia saccata</i>
<i>Nuytsia floribunda</i>	<i>Petrophile acicularis</i>
* <i>Nymphaea odorata</i>	<i>Petrophile diversifolia</i>
* <i>Oenothera stricta</i> subsp. <i>stricta</i>	<i>Petrophile linearis</i>
<i>Olax benthamiana</i>	<i>Petrophile serruriae</i>
<i>Olearia axillaris</i>	<i>Petrophile squamata</i>
<i>Olearia cassiniae</i>	<i>Petrophile squamata</i> subsp. <i>pluridissecta</i> ms
<i>Olearia elaeophila</i>	<i>Petrophile squamata</i> subsp. <i>squamata</i>
<i>Olearia muricata</i>	<i>Phebalium anceps</i>
<i>Olearia paucidentata</i>	<i>Philydrella pygmaea</i>
<i>Olearia rufa</i>	<i>Philydrella pygmaea</i> subsp. <i>minima</i> Pl
<i>Opercularia apiciflora</i>	<i>Phlebocarya ciliata</i>
<i>Opercularia echinocephala</i>	
<i>Opercularia hispida</i>	

<i>Phlebocarya filifolia</i>	<i>Prasophyllum hians</i>
* <i>Phleum arenarium</i>	<i>Prasophyllum macrostachyum</i>
<i>Phyllangium divergens</i>	<i>Prasophyllum parvifolium</i>
<i>Phyllangium paradoxum</i> ms	<i>Prasophyllum plumiforme</i>
<i>Phyllanthus calycinus</i>	<i>Prasophyllum regium</i>
<i>Phylloglossum drummondii</i>	<i>Prasophyllum triangulare</i>
* <i>Physalis peruviana</i>	* <i>Prunella vulgaris</i>
<i>Physopsis spicata</i>	* <i>Pseudognaphalium luteo-album</i>
<i>Picris angustifolia</i> subsp. <i>angustifolia</i>	* <i>Psoralea pinnata</i>
<i>Pilotyles hamiltonii</i>	<i>Pteridium esculentum</i>
<i>Pimelea angustifolia</i>	<i>Pteris vittata</i>
<i>Pimelea argentea</i>	<i>Pterochaeta paniculata</i>
<i>Pimelea ciliata</i> subsp. <i>ciliata</i>	<i>Pterostylis aff. nana</i>
<i>Pimelea ciliata</i> subsp. <i>longituba</i>	<i>Pterostylis barbata</i>
<i>Pimelea clavata</i>	<i>Pterostylis pyramidalis</i>
<i>Pimelea ferruginea</i>	<i>Pterostylis recurva</i>
<i>Pimelea hispida</i>	<i>Pterostylis rogersii</i>
<i>Pimelea imbricata</i>	<i>Pterostylis turfosa</i> P1
<i>Pimelea imbricata</i> var. <i>piligera</i>	<i>Pterostylis vittata</i>
<i>Pimelea lanata</i>	<i>Ptilotus drummondii</i> var. <i>drummondii</i>
<i>Pimelea longiflora</i> subsp. <i>longiflora</i>	<i>Ptilotus manglesii</i>
<i>Pimelea preissii</i>	<i>Ptilotus sericostachys</i> subsp.
<i>Pimelea rosea</i> subsp. <i>rosea</i>	<i>sericostachys</i>
<i>Pimelea spectabilis</i>	<i>Ptilotus stirlingii</i>
<i>Pimelea suaveolens</i>	<i>Pultenaea drummondii</i>
<i>Pimelea suaveolens</i> subsp. <i>suaveolens</i>	<i>Pultenaea ericifolia</i>
<i>Pimelea sylvestris</i>	<i>Pultenaea ochreata</i>
<i>Pimelea tinctoria</i>	<i>Pultenaea pinifolia</i> P3
* <i>Pinus pinaster</i>	<i>Pultenaea radiata</i> P3
<i>Pithocarpa pulchella</i>	<i>Pultenaea reticulata</i>
<i>Pithocarpa pulchella</i> var. <i>melanostigma</i> ms	<i>Pultenaea skinneri</i> P4
<i>Pityrodia bartlingii</i>	<i>Pultenaea verruculosa</i> var. <i>verruculosa</i>
* <i>Plantago lanceolata</i>	<i>Pyrorchis forrestii</i>
* <i>Plantago major</i>	<i>Pyrorchis nigricans</i>
<i>Platychorda appanata</i> ms	<i>Quinetia urvillei</i>
<i>Platysace compressa</i>	<i>Ranunculus colonorum</i>
<i>Platysace filiformis</i>	<i>Ranunculus muricatus</i>
<i>Platysace haplosciadea</i>	<i>Ranunculus sessiliflorus</i> var. <i>sessiliflorus</i>
<i>Platysace pendula</i>	<i>Reedia spathacea</i> P4
<i>Platysace tenuissima</i>	<i>Restio amblycoleus</i>
<i>Platysace xerophila</i>	<i>Restio applanatus</i>
<i>Platytheca galiooides</i>	<i>Restio isomorphus</i> P2
<i>Poa drummondiana</i>	<i>Restio megalotheca</i>
<i>Poa homomalla</i>	<i>Restio ustulatus</i>
<i>Poa poiformis</i>	<i>Rhagodia baccata</i>
<i>Poa porphyroclados</i>	<i>Rhagodia baccata</i> subsp. <i>baccata</i>
<i>Poa serpentum</i>	<i>Rhodanthe citrina</i>
* <i>Podalyria sericea</i>	<i>Ricinocarpos glaucus</i>
<i>Podocarpus drouynianus</i>	* <i>Romulea rosea</i> var. <i>australis</i>
<i>Podolepis gracilis</i>	* <i>Rorippa nasturtium-aquaticum</i>
<i>Podolepis lessonii</i>	* <i>Rostraria pumila</i>
<i>Podotheca angustifolia</i>	* <i>Rubus aff. selmeri</i>
<i>Podotheca chrysantha</i>	* <i>Rubus discolor</i>
* <i>Polygala myrtifolia</i>	* <i>Rubus ulmifolius</i>
<i>Polypogon tenellus</i>	<i>Rulingia corylifolia</i>
<i>Poranthera huegelii</i>	<i>Rulingia grandiflora</i>
<i>Poranthera microphylla</i>	* <i>Rumex brownii</i>
<i>Potamogeton drummondii</i>	* <i>Rumex conglomeratus</i>
<i>Potamogeton pectinatus</i>	* <i>Rumex x muretii</i>
<i>Praecoxanthus aphyllus</i> ms	* <i>Rumex xschulzei</i>
<i>Prasophyllum brownii</i>	<i>Ruppia megacarpa</i>
<i>Prasophyllum calcicola</i> ms	<i>Samolus junceus</i>
<i>Prasophyllum elatum</i>	

<i>Samolus repens</i>	* <i>Solanum nigrum</i>
<i>Samolus repens</i> var. <i>repens</i>	<i>Solanum symonii</i>
* <i>Samolus valerandi</i>	<i>Sollya heterophylla</i>
<i>Sarcocornia blackiana</i>	* <i>Sonchus asper</i> subsp. <i>glaucescens</i>
<i>Scaevola anchusifolia</i>	* <i>Sonchus oleraceus</i>
<i>Scaevola calliptera</i>	<i>Sowerbaea laxiflora</i>
<i>Scaevola crassifolia</i>	* <i>Sparaxis bulbifera</i>
<i>Scaevola glandulifera</i>	<i>Sphaerolobium drummondii</i>
<i>Scaevola globulifera</i>	<i>Sphaerolobium fornicatum</i>
<i>Scaevola microphylla</i>	<i>Sphaerolobium grandiflorum</i>
<i>Scaevola nitida</i>	<i>Sphaerolobium linophyllum</i>
<i>Scaevola striata</i>	<i>Sphaerolobium macranthum</i>
<i>Scaevola striata</i> var. <i>striata</i>	<i>Sphaerolobium macranthum</i> var. "unsorted"
<i>Schizaea fistulosa</i>	<i>Sphaerolobium medium</i>
<i>Schoenolaena juncea</i>	<i>Sphaerolobium nudiflorum</i>
<i>Schoenolaena juncea</i>	<i>Sphaerolobium racemulosum</i>
<i>Schoenoplectus validus</i>	<i>Sphaerolobium scabriuscum</i>
<i>Schoenus asperocarpus</i>	<i>Sphaerolobium vimineum</i>
<i>Schoenus bifidus</i>	* <i>Sphaeropteris cooperi</i>
<i>Schoenus breviculmis</i>	<i>Sphenotoma capitatum</i>
<i>Schoenus brevisetis</i>	<i>Sphenotoma gracile</i>
<i>Schoenus cruentus</i>	<i>Sphenotoma parviflorum</i> P3
<i>Schoenus curvifolius</i>	<i>Sphenotoma squarrosum</i>
<i>Schoenus discifer</i>	<i>Sporadanthus rivularis</i> ms P3
<i>Schoenus efoliatus</i>	<i>Sporadanthus strictus</i> ms
<i>Schoenus elegans</i>	* <i>Sporobolus indicus</i> var. <i>capensis</i>
<i>Schoenus grandiflorus</i>	<i>Sporobolus virginicus</i>
<i>Schoenus indutus</i> P1	<i>Spyridium globulosum</i>
<i>Schoenus laevigatus</i>	<i>Stachystemon vermicularis</i>
<i>Schoenus loliaceus</i> P2	<i>Stackhousia monogyna</i>
<i>Schoenus nitens</i>	<i>Stackhousia pubescens</i>
<i>Schoenus pleiostemoneus</i>	<i>Stellaria media</i>
<i>Schoenus</i> sp.A3 Ciliate Sheaths(K.R.Newbey 9402	<i>Stenanthesum humile</i>
<i>Schoenus</i> sp.G Broad Sheath(K.L.Wilson 2633)	<i>Stenopetalum robustum</i>
<i>Schoenus subbarbatus</i>	<i>Stenotalis ramosissima</i>
<i>Schoenus subbulbosus</i>	* <i>Stenotaphrum secundatum</i>
<i>Schoenus subflavus</i>	<i>Stipa flavescentes</i>
<i>Schoenus subflavus</i> subsp. <i>subflavus</i>	<i>Stirlingia latifolia</i>
<i>Schoenus sublateralis</i>	<i>Stirlingia seselifolia</i>
<i>Schoenus sublaxus</i>	<i>Stirlingia simplex</i>
<i>Schoenus tenellus</i>	<i>Strangea stenocarpoides</i>
<i>Schoenus variicellae</i>	<i>Stylium adnatum</i>
<i>Selaginella gracillima</i>	<i>Stylium adnatum</i> var. <i>abbreviatum</i>
* <i>Senecio diaschides</i>	<i>Stylium aff. bulbiferum</i>
<i>Senecio elegans</i>	<i>Stylium aff. spathulatum</i>
<i>Senecio glomeratus</i>	<i>Stylium amoenum</i>
<i>Senecio hispidulus</i>	<i>Stylium amoenum</i> var. "unsorted"
<i>Senecio hispidulus</i> var. <i>hispidulus</i>	<i>Stylium barleei</i> P3
* <i>Senecio laetus</i>	<i>Stylium breviscapum</i>
* <i>Senecio laetus</i> subsp. <i>maritimus</i>	<i>Stylium breviscapum</i> var. <i>breviscapum</i>
<i>Senecio ramosissimus</i>	<i>Stylium brunonianum</i>
* <i>Sherardia arvensis</i>	<i>Stylium brunonianum</i> subsp. <i>minor</i>
<i>Sida hookeriana</i>	<i>Stylium bulbiferum</i>
* <i>Sigesbeckia orientalis</i>	<i>Stylium caespitosum</i>
* <i>Silene gallica</i> var. <i>gallica</i>	<i>Stylium calcaratum</i>
* <i>Silene gallica</i> var. <i>quinquevulnera</i>	<i>Stylium ciliatum</i>
* <i>Silene nocturna</i>	<i>Stylium corymbosum</i>
* <i>Silene vulgaris</i>	<i>Stylium crassifolium</i>
<i>Siloxerus filifolius</i>	<i>Stylium despectum</i>
<i>Siloxerus humifusus</i>	<i>Stylium diversifolium</i>
* <i>Solanum linnaeanum</i>	<i>Stylium ecorne</i>
	<i>Stylium falcatum</i>
	<i>Stylium fasciculatum</i>

<i>Stylium glaucum</i>	<i>Thomasia grandiflora</i>
<i>Stylium glaucum</i> subsp. <i>angustifolium</i>	<i>Thomasia heterophylla</i> ms
<i>Stylium guttatum</i>	<i>Thomasia laxiflora</i> P1
<i>Stylium inundatum</i>	<i>Thomasia macrocarpa</i>
<i>Stylium junceum</i>	<i>Thomasia paniculata</i>
<i>Stylium junceum</i> subsp. <i>brevius</i>	<i>Thomasia pauciflora</i>
<i>Stylium laciniatum</i>	<i>Thomasia</i> sp. Big Brook(M.Koch 2373)
<i>Stylium leeuwinense</i> ms P3	<i>Thomasia triloba</i> P1
<i>Stylium lineatum</i>	<i>Thomasia triphylla</i>
<i>Stylium lowrieana</i>	<i>Threlkeldia diffusa</i>
<i>Stylium luteum</i>	<i>Thryptomene saxicola</i>
<i>Stylium luteum</i> subsp. <i>glaucifolium</i>	<i>Thysanotus arbuscula</i>
<i>Stylium mimeticum</i> P3	<i>Thysanotus arenarius</i>
<i>Stylium piliferum</i>	<i>Thysanotus dichotomus</i>
<i>Stylium plantagineum</i> P4	<i>Thysanotus formosus</i> P1
<i>Stylium preissii</i>	<i>Thysanotus glaucus</i> P4
<i>Stylium pulchellum</i>	<i>Thysanotus gracilis</i>
<i>Stylium repens</i>	<i>Thysanotus manglesianus</i>
<i>Stylium rhynchocarpum</i>	<i>Thysanotus multiflorus</i>
<i>Stylium rupestre</i>	<i>Thysanotus patersonii</i>
<i>Stylium scandens</i>	<i>Thysanotus pauciflorus</i>
<i>Stylium schoenoides</i>	<i>Thysanotus pseudojunceus</i>
<i>Stylium spathulatum</i>	<i>Thysanotus sparteus</i>
<i>Stylium squamosotuberosum</i>	<i>Thysanotus tenellus</i>
<i>Stylium striatum</i>	<i>Thysanotus thyrsoideus</i>
<i>Stylium uniflorum</i>	<i>Thysanotus triandrus</i>
<i>Stylium violaceum</i>	* <i>Tolpis barbata</i>
<i>Stypandra glauca</i>	* <i>Trachyandra divaricata</i>
<i>Styphelia tenuiflora</i>	<i>Trachymene coerulea</i>
<i>Suaeda australis</i>	<i>Trachymene coerulea</i> var. <i>coerulea</i>
<i>Synaphea favosa</i>	<i>Trachymene pilosa</i>
<i>Synaphea gracillima</i>	<i>Tremandra diffusa</i>
<i>Synaphea macrophylla</i> P1	<i>Tremandra stelligera</i>
<i>Synaphea nexosa</i> P1	<i>Tremulina cracens</i> ms
<i>Synaphea otostigma</i> P1	<i>Tremulina tremula</i> ms
<i>Synaphea petiolaris</i>	<i>Tribonanthes australis</i>
<i>Synaphea petiolaris</i> subsp. <i>triloba</i>	<i>Trichocline spathulata</i>
<i>Synaphea whicherensis</i> P3	<i>Tricoryne elatior</i>
* <i>Taraxacum officinale</i>	<i>Tricoryne humilis</i>
<i>Taraxis glaucescens</i> ms	<i>Tricostularia neesii</i>
<i>Taraxis grossa</i>	<i>Tricostularia neesii</i> var. <i>elatior</i>
<i>Taraxis grossa</i> ms	<i>Tricostularia neesii</i> var. <i>neesii</i>
<i>Templetonia retusa</i>	* <i>Trifolium campestre</i> var. <i>campestre</i>
<i>Tetraria capillaris</i>	* <i>Trifolium cernuum</i>
<i>Tetraria octandra</i>	* <i>Trifolium dubium</i>
<i>Tetraorrhena laevis</i>	* <i>Trifolium incarnatum</i>
<i>Tetratheca fasciculata</i> X	* <i>Trifolium incarnatum</i> var. <i>incarnatum</i>
<i>Tetratheca filiformis</i>	* <i>Trifolium ligusticum</i>
<i>Tetratheca hirsuta</i>	* <i>Trifolium resupinatum</i> var. <i>resupinatum</i>
<i>Tetratheca setigera</i>	* <i>Trifolium subterraneum</i>
<i>Thalassodendron pachyrhizum</i>	<i>Triglochin centrocarpum</i>
<i>Thelymitra aff. holmesii</i>	<i>Triglochin huegelii</i>
<i>Thelymitra aff. macrophylla</i>	<i>Triglochin lineare</i>
<i>Thelymitra antennifera</i>	<i>Triglochin striatum</i>
<i>Thelymitra benthamiana</i>	<i>Triglochin trichophorum</i>
<i>Thelymitra canaliculata</i>	<i>Tripterococcus brachylobus</i> ms
<i>Thelymitra cornicina</i>	<i>Tripterococcus brunonis</i>
<i>Thelymitra crinita</i>	<i>Trithuria submersa</i>
<i>Thelymitra cucullata</i>	* <i>Tritonia crocata</i>
<i>Thelymitra flexuosa</i>	* <i>Tritonia lineata</i>
<i>Thelymitra fuscolutea</i>	<i>Trymalium floribundum</i>
<i>Thelymitra nuda</i>	<i>Trymalium floribundum</i> subsp. <i>trifidum</i>
<i>Thelymitra pauciflora</i>	<i>Trymalium ledifolium</i> var. <i>rosmarinifolium</i>

* <i>Typha domingensis</i>	<i>Xyris inaequalis</i>
<i>Tyrbastes glaucescens</i> ms P4	<i>Xyris lacera</i>
* <i>Ulex europaeus</i>	<i>Xyris lanata</i>
* <i>Ursinia anthemoides</i>	<i>Xyris laxiflora</i>
* <i>Ursinia speciosa</i>	<i>Xyris maxima</i>
<i>Utricularia benthamii</i>	<i>Xyris roycei</i>
<i>Utricularia menziesii</i>	* <i>Zantedeschia aethiopica</i>
<i>Utricularia multifida</i>	
<i>Utricularia paulineae</i>	
<i>Utricularia simplex</i>	
<i>Utricularia tenella</i>	
<i>Utricularia violacea</i>	
* <i>Vallisneria americana</i>	
<i>Velleia macrophylla</i>	
<i>Velleia trinervis</i>	
* <i>Vellereophyton dealbatum</i>	
* <i>Verbascum virgatum</i>	
<i>Veronica arvensis</i>	
<i>Veronica distans</i>	
<i>Veronica plebeia</i>	
<i>Verticordia lehmannii</i> P4	
<i>Verticordia plumosa</i> var. <i>brachiphylla</i>	
<i>Verticordia plumosa</i> var. <i>plumosa</i>	
* <i>Vicia sativa</i>	
* <i>Vicia sativa</i> subsp. <i>nigra</i>	
* <i>Vicia sativa</i> subsp. <i>sativa</i>	
<i>Villarsia albiflora</i>	
<i>Villarsia capitata</i>	
<i>Villarsia lasiosperma</i>	
<i>Villarsia latifolia</i>	
<i>Villarsia parnassifolia</i>	
<i>Viminaria juncea</i>	
* <i>Vinca major</i>	
* <i>Viola odorata</i>	
* <i>Vulpia membranacea</i>	
* <i>Wahlenbergia capensis</i>	
<i>Wahlenbergia gracilenta</i>	
<i>Wahlenbergia multicaulis</i>	
<i>Wahlenbergia preissii</i>	
<i>Waitzia suaveolens</i>	
<i>Waitzia suaveolens</i> var. <i>suaveolens</i>	
* <i>Watsonia borbonica</i>	
* <i>Watsonia borbonica</i> subsp. <i>ardernei</i>	
* <i>Watsonia meriana</i>	
* <i>Watsonia versfeldii</i>	
* <i>Watsonia wordsworthiana</i>	
<i>Wurmbea dioica</i>	
<i>Wurmbea dioica</i> subsp. <i>alba</i>	
<i>Wurmbea monantha</i>	
<i>Xanthorrhoea brunonis</i>	
<i>Xanthorrhoea brunonis</i> subsp. <i>brunonis</i>	
<i>Xanthorrhoea brunonis</i> subsp. <i>semibarbata</i>	
<i>Xanthorrhoea gracilis</i>	
<i>Xanthorrhoea preissii</i>	
<i>Xanthosia atkinsoniana</i>	
<i>Xanthosia candida</i>	
<i>Xanthosia huegelii</i>	
<i>Xanthosia huegelii</i> subsp.	
southern(G.J.Keighery 2165)	
<i>Xanthosia pusilla</i>	
<i>Xylomelum angustifolium</i>	
<i>Xylomelum occidentale</i>	
<i>Xyris gracillima</i>	