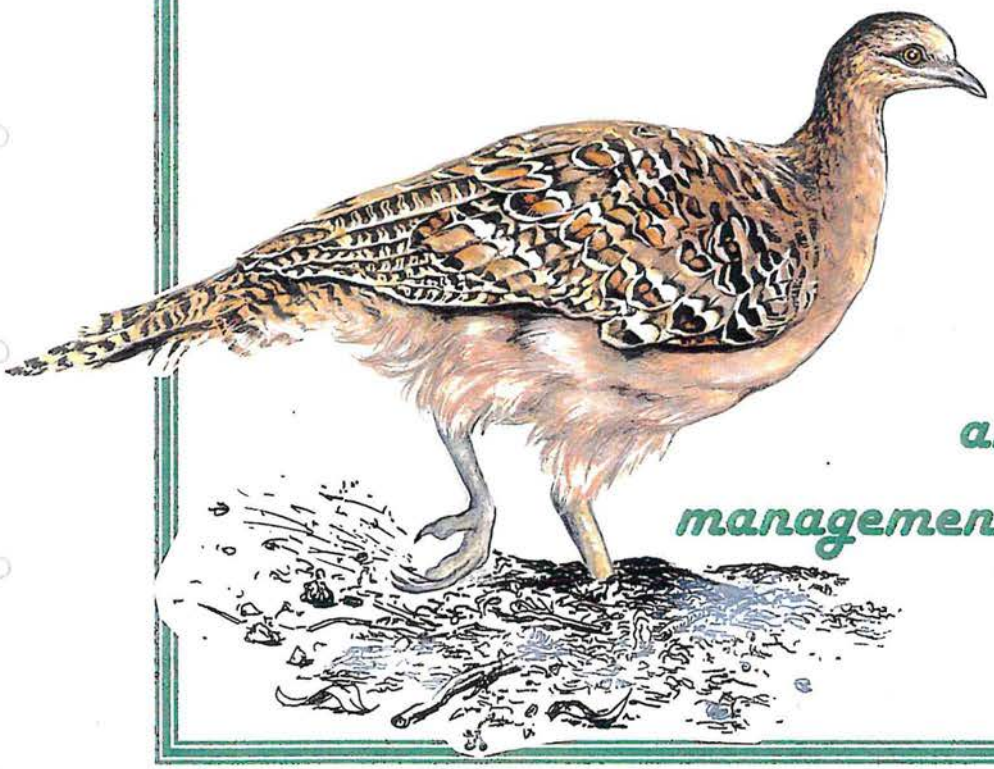
A survey of the roadside conservation values in the Shire of Gnowangerup and roadside management guidelines



June 1999 - Roadside Conservation Committee

2nd edition

CONTENTS

FIGURES

TABLES

APPENDICES

Introduction

The Shire of Gnowangerup covers an area of 5000 km² and supports a population of approximately 1700 people. The area experiences a mediterranean climate with a mean annual rainfall of 384.2 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 rainfalls are shown below.

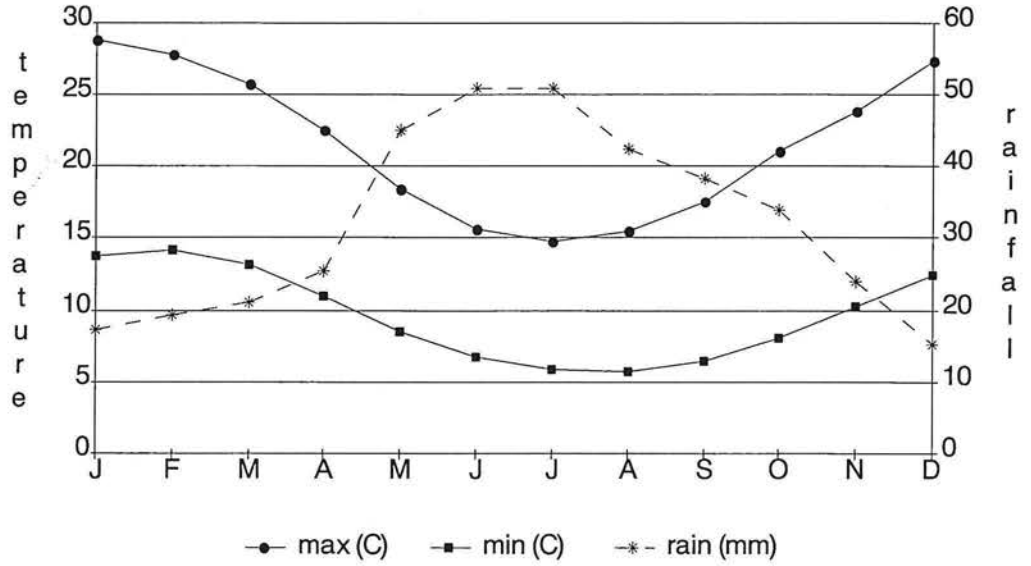


Figure 1. Mean daily maximum and minimum temperature (C) and rainfall (mm) in the Shire of Gnowangerup (measured at Ongerup).

Gnowangerup is located 354 km south east of Perth in Western Australia's south west land division. Typical of the region, the major agricultural pursuits are cereal crops, sheep and cattle. Tourism is also an important industry with the area's spectacular natural resources being a major attraction. Salient features of the area being the Stirling Ranges and the flora and fauna which abound in the area. Each year the Ongerup Wildflower Show provides visitors with easy access to some of the diverse range of unique local flora. Based on WA Herbarium records nearly 2000 species of plants have been recorded from the Shire of Gnowangarup. This includes more than 90 species of acacia, 26 species of boronia, 32 species of spider orchid and a staggering 128 species of eucalypt. By way of comparison, the United Kingdom supports a flora of approximately 2000 species. However, it is of concern to note that 110 species of exotic plants are also recorded within the shire.

Value 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 to make way for agriculture and other development ventures. The fragmentation of the more or less continuous tracts of native vegetation suites by clearing has resulted in the isolation of plant and animal populations and communities. Populations isolated and restricted to these man made biogeographical islands of small remnants are prone to food shortages, disease and reduced genetic diversity. However the presence of native vegetation along roadsides can often assist in alleviating this isolation effect by providing corridors between bush remnants, thereby facilitating the movement of biota across the landscape. Unfortunately

the protective mantle afforded by the native flora has been badly depleted with now only 5% (approximately 226km$^{2)}$ of the remnant vegetation remaining in the Shire of Gnowangerup. (Beeston et al, 1993).

Remnant native vegetation includes more than just trees. Trees, shrubs and ground covers (creepers, grasses and herbs) combine to provide valuable food and shelter for different types of wildlife. Existing native vegetation will require less maintenance if left undisturbed.

Trees are good - bush is better - native trees, shrubs and grasses on the roadside are valuable because they:

- often are the only remaining example of original vegetation within 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, 321 plant species are declared rare under the wildlife conservation act 1950-1979. Of these, more than 100 are known to be from roadside populations. In fact, 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. As well as creating a more favourable impression of an area, roadsides attract tourists who visit specifically to view wildflowers).
- often contain sites of historical or cultural significance;
- provide windbreaks and stock shelter areas for adjoining farmland; (This can help stabilise temperature and reduce evaporation, and thereby providing microhabitat more suitable to higher levels of productivity. Well conserved roadsides also assist with erosion and salinity control. In addition, native vegetation on roadsides is generally far less of a fire threat than annual weeds. Undisturbed roadsides provide a bench mark for the study of soil change during agricultural development).
- are a vital source of local seed for revegetation projects; (In lieu of other alternatives and cognisant of limitations; road reserves can also 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 world are many, it is vital that there is a coordinated management of lands across all tenures to ensure the sustainability and integrity of the natural biota and processes, agricultural lands and service infrastructure. It is somewhat ironic that the reserves established to cater for a transport system in a modern world are now an integral component of this coordinated management approach.

Roadsides are the vital link .....and a priceless community asset.

Legislation

Uncertainty often exists in the minds of many with regard to the 'ownership' control and management of the roadside per se. When a public road is created, a corridor of land is dedicated for a road, i.e. a road reserve. The road formation and its associated infrastructure are accommodated within the road reserve. The remaining area on each side of the road is called the road verge or roadside. It is in the control and management responsibilities of this area (and flora and fauna residing within it) that the uncertainty exists

Public roads other than main roads are dedicated under the **Local Government Act** (Part XII). Dedication places care and management of the road (street) in the relevant local government authority. However, under Section 286 of the **Local Government Act**, land in a road is the absolute property of the Crown, i.e. still Crown land.

Road reserves may be created in the following ways:

- by approval of a crown subdivisional plans, s.294a of the **local government act.**
- by approval of a freehold subdivisional plan, s.295 (5) of the **local government act.**
- by approval of a survey plan (crown or freehold), s.28 of the **town planning and development act.**
- by dedication of crown land (often following acquisition under the **public works act**), ss.287 and 288 of the **local government act.**
- by a local government undertaking work on a private street, s.296 of the **local government act.**

When a street is dedicated to a public use, it becomes Crown land under the **Land Act**, pursuant to s.286 of the **Local Government Act.** Care, control and management rest in the relevant local government (s.300 of the **Local Government Act**) unless the road is declared a highway, main road or secondary road under the **Main Roads Act.** In the latter case, care, control and management vests in the Commissioner of Main Roads (ss.15 and 26 of the **Main Roads Act**). Main Roads Western Australia, rather than DOLA, administers those roads placed under their management responsibility.

The **Local Government Act** appears to be written in an urban context, and does not refer specifically to the management of the roadside; rather it only refers to the road itself. It is therefore difficult to determine to what extent the Act places the care, control and management of the roadside with the local government authority in the case of dedicated roads. It is, however, suggested that where a local government authority is managing a road (reserve) that authority may undertake reasonable management of the roadside to facilitate the roadway, including making the road safe and convenient to use.

With the proclamation of the **Wildlife Conservation Act 1950** the responsibility for flora conservation, including the control of harvesting of protected flora, this includes seed, was given to the Minister of the Crown responsible for Fisheries and Wildlife and the Department of Fisheries and Wildlife. With the formation of the Department of Conservation and Land Management (CALM) in 1984 and the accompanying **Conservation and Land Management Act 1984** the conservation and management of all native wildlife passed to the Minister responsible for that Department and the Department itself. As a consequence CALM has the authority to exert controls.

Main Roads Western Australia manages Albany-Lake Grace Rd, Broomehill-Jerramungup Rd and Gnowangerup-Stirling Range Rd, and the Shire of Gnowangerup manages all other roads in this survey.

Assessment Process

Methods

The methods to assess and calculate the conservation value of the roadside reserves are described in Hussey (1991). 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).

Fieldwork was carried out from May 95 to November 98. The surveyors were:

Carolyn Faulkner, Kaye Vaux, Bronwyn Crouch, Beth Gaze, Steve Newbey, Fran Souness, Gary Souness, Lynda Strahan, Ross Strahan, Jenny Ireland, Judy Moir, Jean Brown, Sally Milne, Mary Milne, Beattie Stewart, Sue Oborne, Eunice Faulkner, Len Faulkner, Kath Fisher, Jan House, Susanne Dennings, Alan Dennings, Sandy Vaux, Annabelle Hinkley, Penny Moir, Jan Savage, Kelly O'Neill and Judy O'Neill.

The efforts of the Malleefowl Preservation Group, who completed the final stage coordination, and the enthusiastic efforts of the volunteer surveyors ensured that this project was successfully completed. It is now hoped that the data collected will be used by all sectors of the community who have an interest in the roadside environment.

Quantify Conservation Values

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

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

Each of these attributes was given a score ranging from 0 to 2 points. The combined scores provide 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 1: 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 weeds;
- 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 local government and community interest.

Mapping

A computer generated (GIS Arc Info) map, at a scale of 1:100 000, depicting the conservation status of the roadside vegetation and the width of the road reserves within the Shire of Gnowangerup was produced. The data used to produce both the map and the following figures and tables are presented in Appendix 3.

The roadside conservation values map initially provides an inventory of the status quo of the condition of the roadside vegetation. This is important as 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 fire management techniquesor regimes and weed control programmes.

The map can also be used as a reference to overlay transparencies of other information relevant to roadside conservation. Data obtained from CALM and the Agricultural Department can been used to produce an overlay map that depicts the location of remnant vegetation on both the Crown estate and privately owned land. This enables the roadside vegetation to be assessed in the context of its importance to the shire's overall conservation network. Other transparencies, 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.

As well as providing a road reserve planning and management tool, the survey data can also be used for:

- regional or district fire management plans;
- tourist routes - roads depicted as high conservation value would provide visitors to the district with an insight to the flora of the district;
- landcare/bushcare projects - would be able to incorporate the information from this survey into 'whole of' landscape projects.

Survey Data Results

A summary of the general roadside conditions in the Shire of Gnowangerup is presented in Table 2. The survey data have 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 (Table 2).

Conservation Status (km)			**Native Vegetation on Roadside (km)**			**Weed Infestation (km)**		
High (9-12)	490.0	21.3%	2 - 3 veg layers	1695.3	73.6%	Light (2)	556.9	24.2%
Med (7-8)	660.7	28.7%	1 veg layer	490.9	21.3%	Medium (1)	1129.3	49.0%
Med (5-6)	564.0	24.5%	0 veg layers	118.1	5.1%	Heavy (0)	618.0	26.8%
Low (0-4)	589.4	25.6%						
			Total	2304.2	100.0%	Total	2304.2	100.0%
Conservation Values (km)			**Extent of Native Vegetation (km)**			**Value as Biological Corridor (km)**		
0	45.0	2.0%	>80%, Good (2)	556.9	24.2%	High (2)	1208.4	52.4%
1	67.7	2.9%	20-80 % Med (1)	1129.3	49.0%	Medium (1)	739.5	32.1%
2	128.6	5.6%	<20% Low (0)	618.0	26.8%	Low (0)	356.3	15.5%
3	172.2	7.5%						
4	175.9	7.6%	Total	2304.2	100.0%	Total	2304.2	100.0%
5	269.5	11.7%						
6	294.6	12.8%	**Number of Native Species (km)**			**Adjoining Land Use (km)**		
7	355.5	15.4%						
8	305.3	13.2%	Over 20 (2)	586.7	25.5%	Cleared	239.3	10.4%
9	302.6	13.1%	6 - 19 (1)	1016.5	44.1%	Scattered	1840.0	79.9%
10	185.9	8.1%	0 - 5 (0)	701.0	30.4%	Uncleared	184.5	8.0%
11	1.5	0.1%				Other	40.5	1.8%
12	0.0	0.0%	Total	2304.2	100.0%	Urban	3.0	
						Railway	5.0	
Total	2304.2	100.0%				Drain	17.6	
						Plantation	14.9	
Period of survey: May 1995 to November 1998.						Total	2304.2	100.0%

Table 2: Summary of roadside conditions along roads in the Shire of Gnowangerup. As roadsides occur on both sides of the road, roadside distances (km) are equal to twice the actual distance of road travelled.

Roadside sections of high conservation value covered 490 km of roadside, 21.3% of the length of roadside surveyed. Medium-high conservation areas accounted for 660.7 km of roadside, 28.7% of the total surveyed. Medium-low conservation roadside covered 564 km, 24.5% of the total surveyed. Areas of low conservation occupied 589.4 km, 25.6% of the roadside surveyed (Table 2, Figure 2).

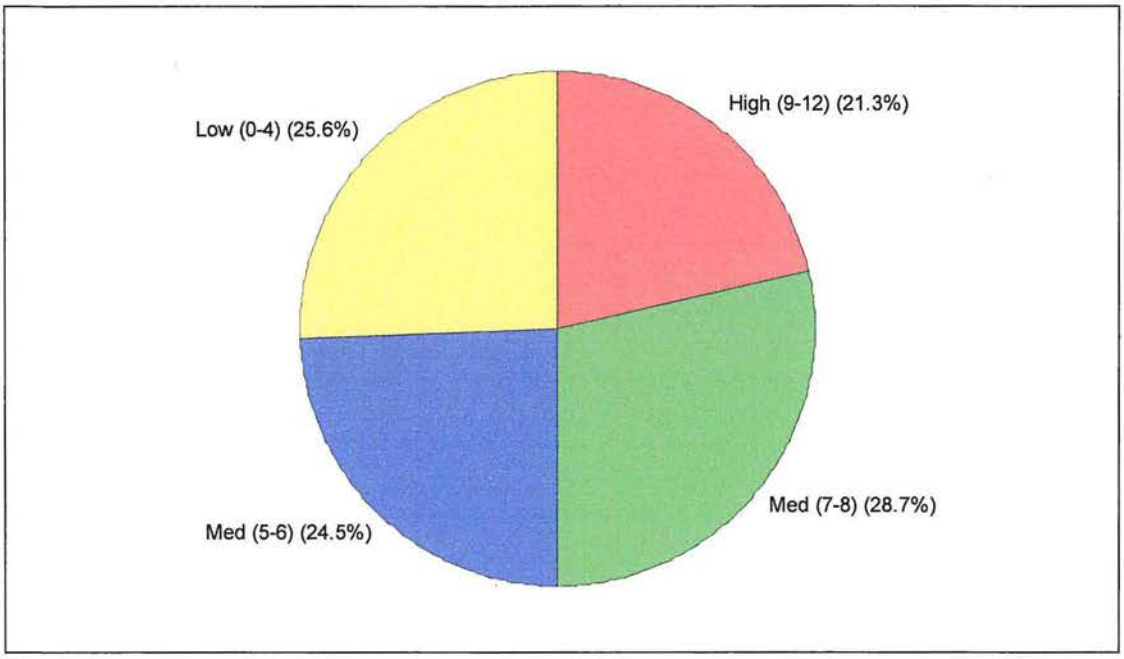


Figure 2: Conservation Status of roadsides in the Shire of Gnowangerup

The *Native Vegetation on Roadside* value is determined from the number of native vegetation layers from either the tree, shrub or ground layers. Sections with at least two layers of native vegetation covered 73.6% of the roadside, 21.3% had only one layer and 5.1% had no layers of native vegetation (Table 2, Figure 3).

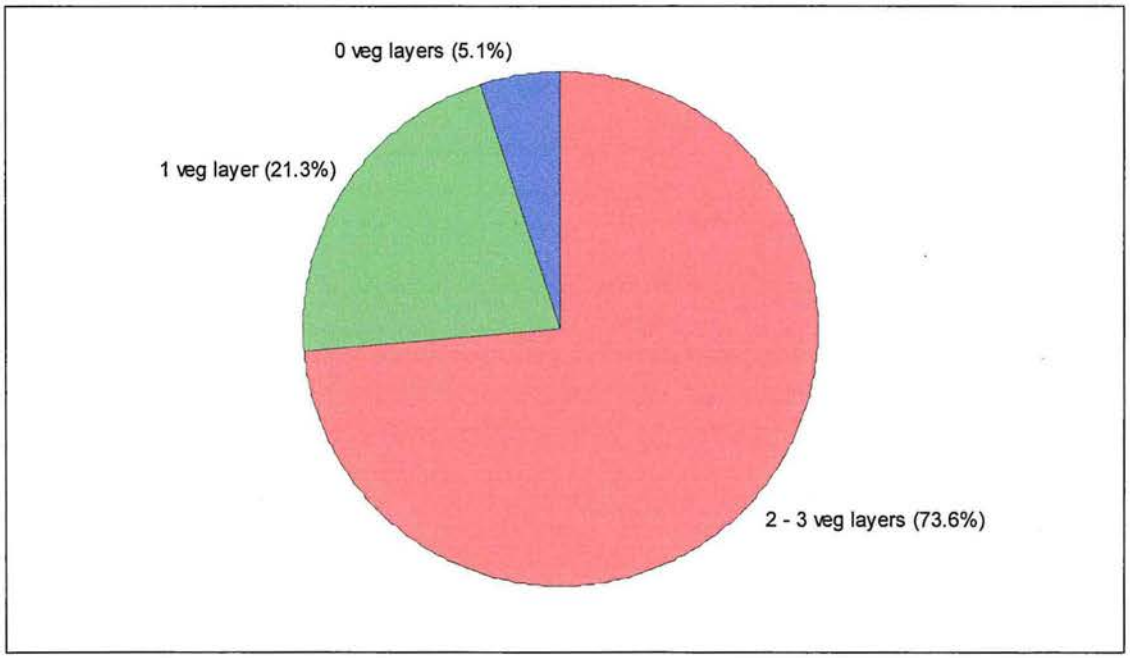


Figure 3: Native Vegetation on Roadside

Roadside vegetation with *Extent of Native Vegetation* value deemed as good, ie with native vegetation cover greater than 80% occurred along 24.2% of the length of roadside surveyed. Survey sections with 20 to 80% cover of native vegetation, accounted for 49% of the roadside. Whilst the remaining 26.8% had less than 20% native vegetation and, therefore, low *Extent of Native Vegetation* value (Table 2, Figure 4).

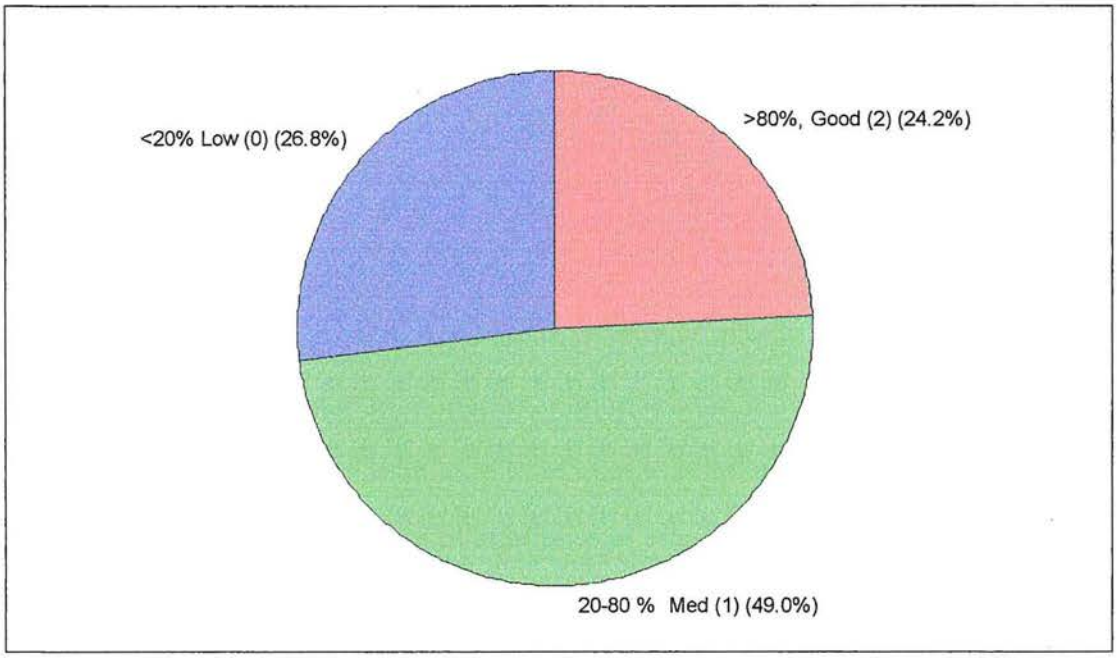


Figure 4: Extent of Native Vegetation

The *Number of Native Species* score provides a measure of the diversity of the vegetation. Survey sections with more than 20 plant species spanned 25.5% of the roadside. Roadside sections with 6 and 19 plant species accounted for 44.1% of the roadside. The remaining 30.4% of roadside had less than 6 plant species and, therefore, nil contribution to the conservation value scores (Table 2, Figure 5).

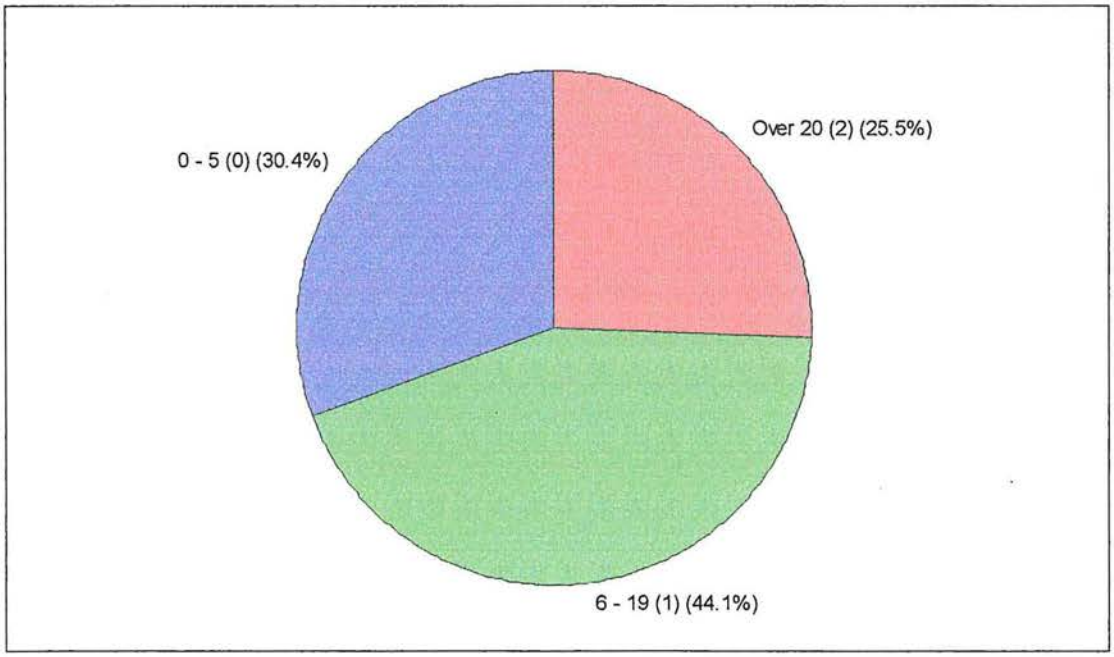


Figure 5: Number of Native Species

24.2% of the roadside surveyed was only lightly affected by weeds. Medium level weed infestation occurred on 49% of the roadside. Whilst 26.8% of the roadside was heavily affected by weeds (Table 2, Figure 6).

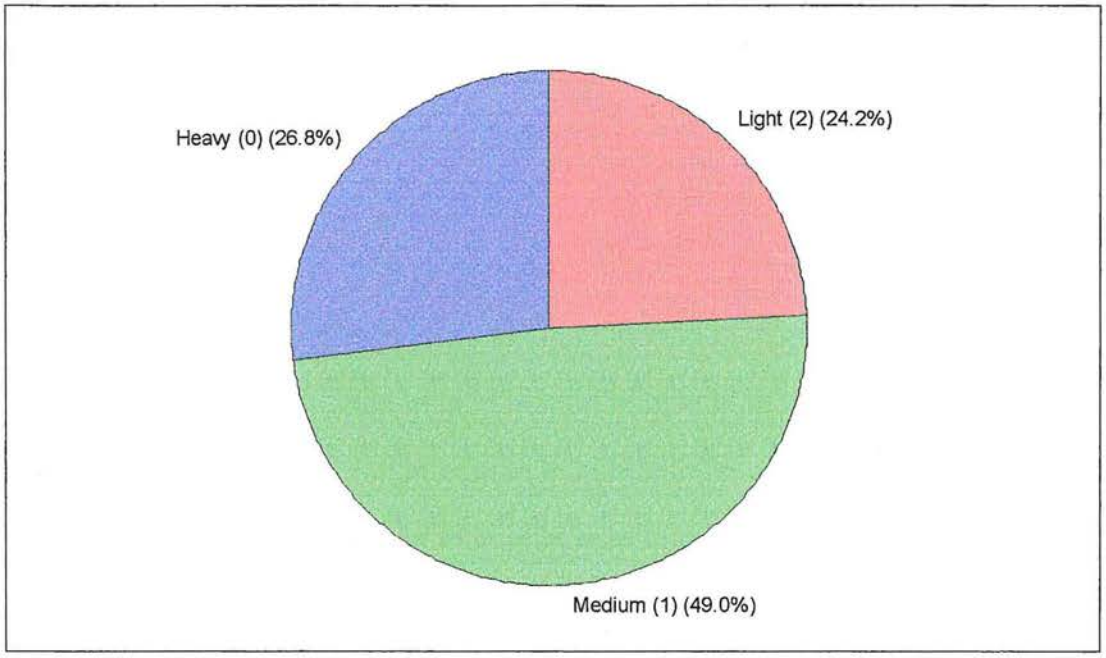


Figure 6: Weed Infestation. Light infestation = weeds less than 20% of ground layer. Medium infestation = weeds 20 to 80% of the ground layer. Heavy infestation = weeds more than 80% of the ground layer.

The *Value as a Biological Corridor* score is largely dependent upon the diversity of habitat and whether the corridor connects areas of uncleared land. High value biological corridor (as determined by the roadside surveyors) was present along 52.4% of the roadside, medium value along 32.1% of the roadside and low value corridor 15.5% (Table 2, Figure 7).

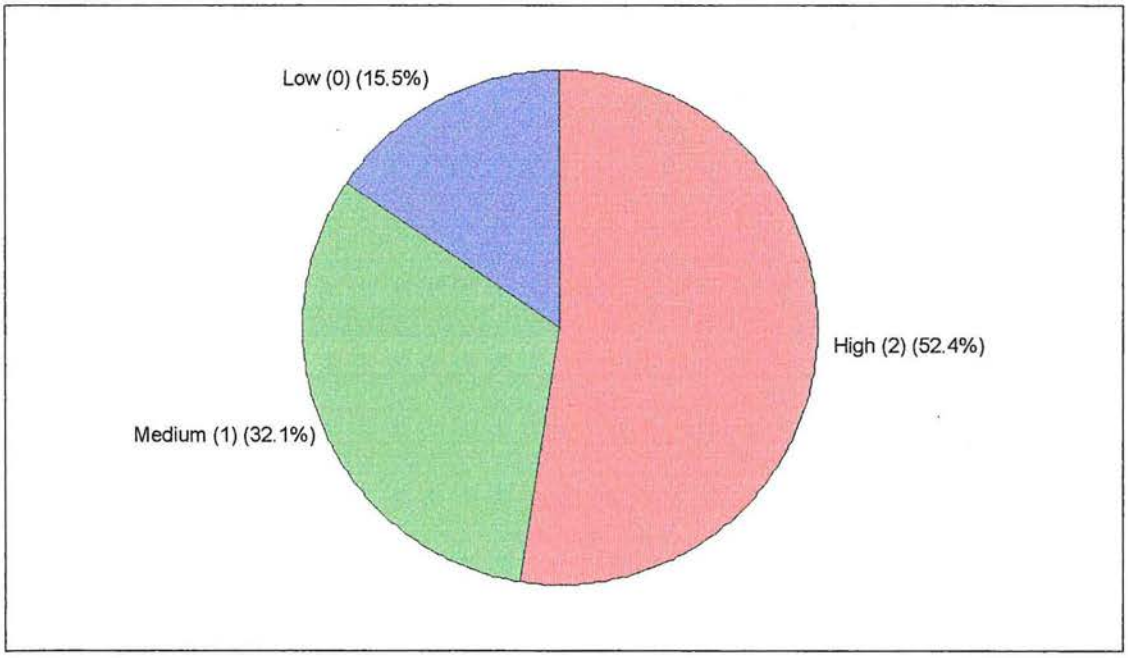


Figure 7: Value as Biological Corridor.

Most land adjoining the roadsides had at least some natural vegetation remaining. A scattered distribution of native vegetation was present on the land adjoining 79.9% of the roadside, whilst 8% of roadside was adjoined by land that had not been cleared. 10.4% of the roadside surveyed was adjoined by land that had been totally cleared of

its native vegetation. Plantations of non-native trees, railway reserve, drain reserve or urban development adjoined the remaining 1.8% of roadside (Table 2, Figure 8).

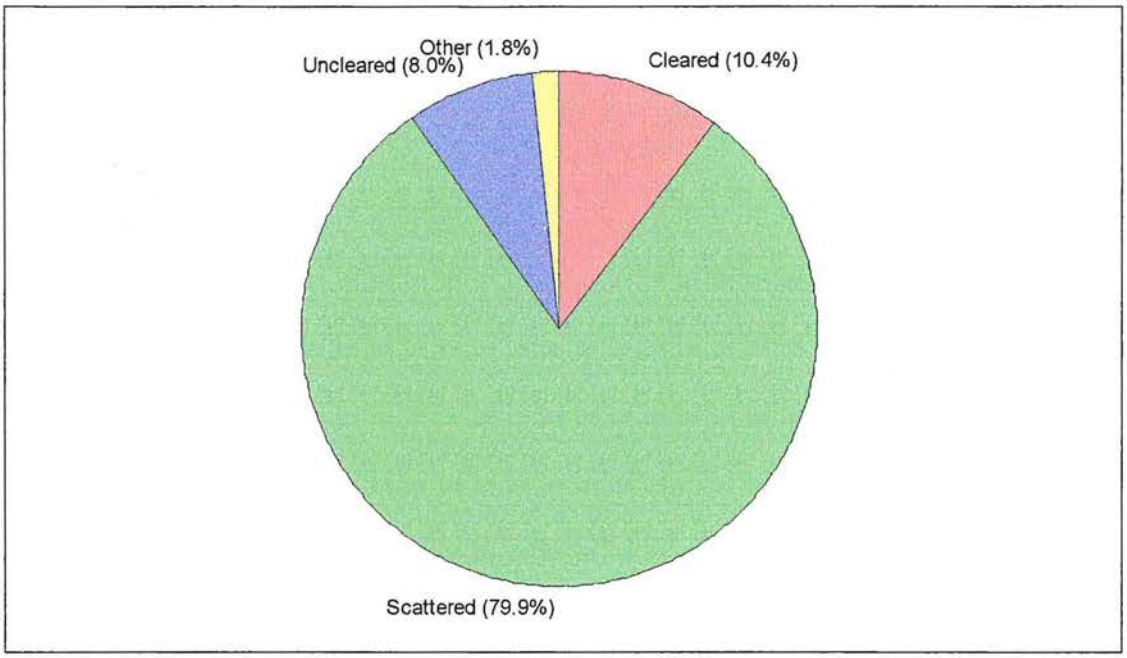


Figure 8: Adjoining Land Use.

Management Techniques

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 or 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. The primary aim of road management is the creation and maintenance of a safe, efficient road system. However, the following management procedures should be adopted.

HIGH CONSERVATION VALUE ROADSIDES

Management Goal — **Maintain and enhance the native plant communities.**

Management Guidelines — **Minimal disturbance to existing vegetation.**

because disturbance leads to weed invasion, which downgrades the conservation value, and increases the fire threat.

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;

SHIRE OF GNOWANGERUP
Roadside Conservation Value
August 1999

Scale:
0 2 4 6 8 10
kilometres

DATUM AMG ZONE 50

LEGEND

- Low (0-4)
- Medium Low (5-6)
- Medium High (7-8)
- High (9-12)
- Reserve Width of 60m
- Reserve Width of 40m
- Reserve Width of 20m
- No Reserve Information
- CALM Estates

SOURCE OF DATA

ROADS: Roads digitised from 1:50K cadastre supplied by DOLA.
REC: Source values supplied by Roadside Conservation Committee. Values are unverified. November 1998
CADASTRE: Supplied by DOLA. June 1998 (DCDB)
WATER: Sourced by DOLA, enhanced by CALM under the Data Acquisition Project.

CALM
Conservation and Land Management

Roadside Conservation Committee
Produced by Main Roads, Road Data Branch
in co-operation with Roadside Conservation Committee.

- apply the Fire Threat Assessment (Roadside Manual chapter 9) 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 wind or shelterbelt;
- encourage revegetation projects by adjacent landholders.

Medium Conservation Value Roadsides

Management Goal		**Maintain native vegetation wherever possible, and to encourage its regeneration.**
Management Guidelines		**Minimise disturbance to existing vegetation.** With the information available on weed infestation on roadsides within the Shire of Gnowangerup, consideration could be given to strategic roadside weed control programs.

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.

A draft Code of Practice is included in Appendix 4. This document is provided as the basis for developing a Shire of Gnowangerup Code of Practice for roadside conservation and Roadside Management Plans. Development of these documents will provide defined parameters for all roadside management works and also provide the local community with an overview of management practices that will ensure the sustainability of native roadside vegetation.

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 points following 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 Siomazine 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.

Flora Roads and Roads Important for Conservation

Flora Roads are significant sections of road having a special conservation value due to the vegetation growing on the road reserve. Signs are available to mark these roads as Flora Roads. This has a twofold effect of drawing the attention of tourist to the high conservation 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

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 Engineer or Environmental Officer establish a Register of Roads Important for Conservation. The following guidelines should be considered prior to establishing this registrar

- the roadside must contain a significant population of native vegetation, (introduced trees and grasses are not important for conservation.
- the native vegetation must be in as near to its natural condition as possible.
- in undisturbed vegetation several layers of plants occur, i.e. trees, shrubs and groundcovers (herbs or native grasses). if one or more of the expected layers are missing, the conservation value is reduced.
- the roadside may be the only remaining example of original vegetation within a cleared area. it thus assists in vegetation mapping and distribution studies, provides a benchmark for study of soil change during agricultural development, may provide a source of local seed for revegetation projects and acts as a wildlife habitat for the protection of fauna.
- rare or endangered plants may occur on the roadside.
- it may provide nest sites and refuges for native animals. dense vegetation provides habitat for avifauna and invertebrates.

Special Environmental 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 & 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 Westrail also have systems for marking sites near power or rail lines. Examples of these are seen in the figure below.

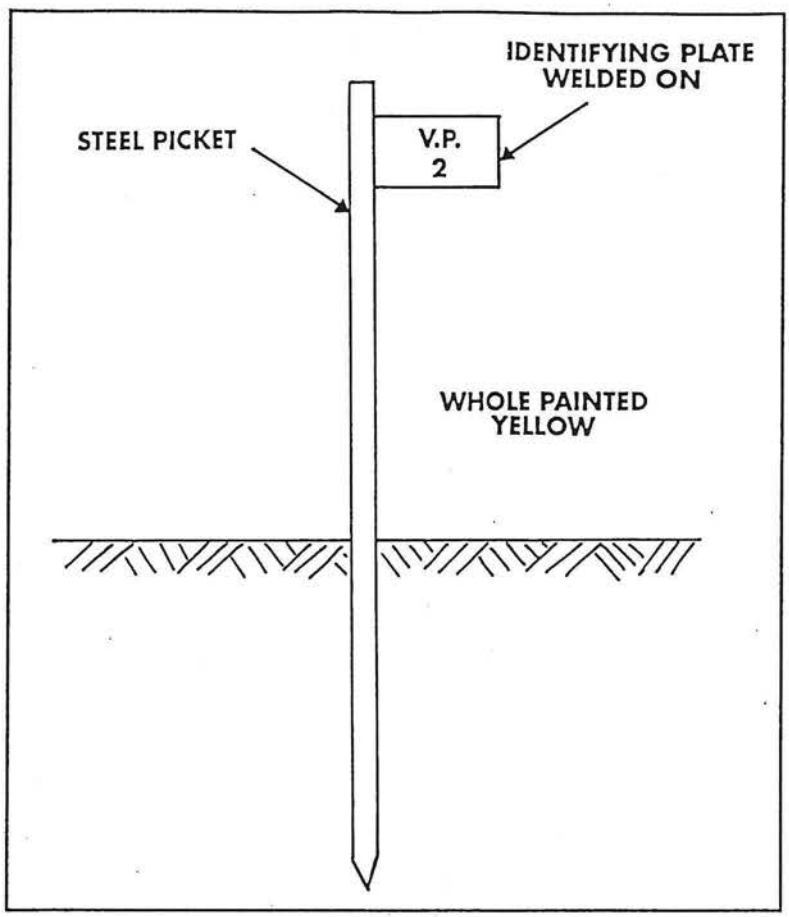


Figure 9. Shire Special Environmental Area site marker

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 in the area 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.

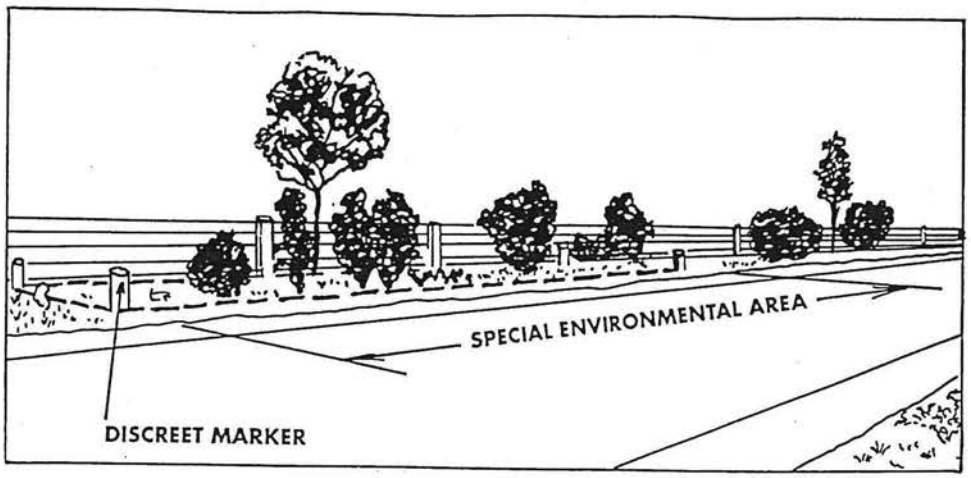


Figure 10. Marking sites in the field

When notified of a population needing marking, the Local Authority should contact the appropriate C.A.L.M. Regional or District office for assistance to ensure the exact site location and correct positioning of marker posts.

Roadside Management Strategies

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.

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

- **enhance**
  - indigenous vegetation communities
  - fauna habitats and corridors

- **maintain**
  - safe function of the road
  - natives 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

Strategies

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

- organisational support from local government is essential from the outset;
- strategies should take no longer that 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**

- Firewood collection and timber harvesting
- Fire prevention
- Installation and maintenance of services
- Road construction and road widening
- Road 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

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.

Weeds

WA Herbarium records indicate that a total of 110 species of weeds have been recorded from within the shire of Gnowangarup. However this should not be considered as a complete list as collectors often over look weed as legitimate botanical specimans.

List of exotic plants (weeds) recorded in the Shire of Gnowangerup

Acetosella vulgaris	sorrel, sheep's sorrel
Amaranthus albus	tumbleweed
Asparagus asparagoides	bridal creeper
Avena barbata	wild oats
Bartsia trixago	
Bracteantha bracteata	
Briza maxima	blowfly grass, quaking grass
Briza minor	shivery grass, lesser quaking grass
Bromus diandrus	brome grass, great brome
Bromus hordeaceus	soft brome grass
Bromus rubens	red brome grass
Bupleurum lancifolium	
Cakile maritima	sea rocket
Carduus pycnocephalus	slender thistle
Carduus tenuiflorus	sheep thistle
Carthamus lanatus	saffron thistle
Centaurea melitensis	maltese cockspur
Centaurium erythraea	common century
Centaurium tenuiflorum	slender centuary
Cerastium glomeratum	mouse-ear chickweed
Chenopodium album	fat hen
Chenopodium murale	green fat hen, nettle-leaved fat hen
Chenopodium pumilio	goosefoot
Cirsium vulgare	spear thistle
Conyza albida	tall fleabane
Cotula bipinnata	ferny cotula
Cotula turbinata	funnel weed
Crassula decumbens	
Crassula natans	
Cyperus tenellus	tiny flat-sedge
Dittrichia viscosa	
Ehrharta calycina	perennial veldt grass
Ehrharta longiflora	annual veldt grass
Emex australis	doublegee, spiny emex

Epilobium ciliatum	willowherb
Erodium botrys	corkscrews, long stoksbill
Euphorbia peplus	petty spurge
Fumaria muralis	wall fumitory
Galium murale	bedstraw
Gamochaeta falcata	cudweed
Gynandriris setifolia	thread iris
Hibiscus trionum	bladder ketmia
Homeria flaccida	one leaf cape tulip
Hordeum distichon	barley grass
Hordeum leporinum	barley grass
Hordeum marinum	salt barley grass
Juncus bufonius	toad rush
Juncus capitatus	
Juncus microcephalus	
Lactuca saligna	wild lettuce
Lamium amplexicaule	deadnettle
Lathyrus latifolius	
Lavatera arborea	tree mallow
Lepidium africanum	common peppercress
Limonium sinuatum	perrennial statice
Linum usitatissimum	flax
Lolium perenne	perennial ryegrass
Lolium temulentum	darnel
Lythrum hyssopifolia	lesser loosestrife
Medicago minima	small burr medic
Medicago scutellata	snail medic
Melilotus officinalis	ribbed meliot
Moluccella laevis	molluca balm
Monadenia bracteata	South African orchid
Monopsis debilis	
Ornithopus pinnatus	slender serradella
Orobanche minor	lesser broomrape
Osteospermum clandestinum	stinking Roger
Oxalis corniculata	yellow wood sorrel, creeping oxalis
Oxalis pes-caprae	soursob
Papaver hybridum	rough poppy
Parapholis incurva	coast barbgrass
Parentucellia latifolia	red bartsia, common bartsia
Pentaschistis airoides	false hair grass

Phalaris minor	esser canary grass
Phalaris paradoxa	paradoxa grass
Plantago coronopus subsp. Commutata	buckshorn plantain
Poa annua	winter grass
Polycarpon tetraphyllum	fourleaf allseed
Pseudognaphalium luteo-album	Jersey cudmore
Raphanus raphanistrum	wild radish
Romulea rosea	Guildford grass
Romulea rosea var. australis	" "
Romulea rosea var. communis	" "
Rostraria cristata	cats tail
Rumex brownii	swamp dock
Rumex crispus	curled dock
Sagina apetala	common pearlwort
Senecio diaschides	ragwort
Sisymbrium orientale	
Sonchus asper subsp. Glaucescens	prickly sow thistle
Sonchus oleraceus	sow thistle
Sorghum halepense	Johnson grass
Sorghum x almum	Columbus grass
Spergularia rubra	red sand spurrey
Spergularia salina	
Sporobolus indicus var. capensis	
Trifolium angustifolium var. angustifolium	narrowleaf clover
Trifolium arvense var. arvense	hare's foot clover
Trifolium campestre var. campestre	hop clover
Trifolium dubium	suckling clover
Trifolium hirtum	rose clover
Trifolium repens var. repens	white clover
Trifolium subterraneum	subterraneum clover
Trifolium tomentosum var. tomentosum	wooly clover
Ursinia anthemoides	ursinia
Vellereophyton dealbatum	white cudweed
Vicia benghalensis	purple vetch
Vulpia bromoides	squirrel's tail fescue
Vulpia myuros	silver grass, rat's tail fescue

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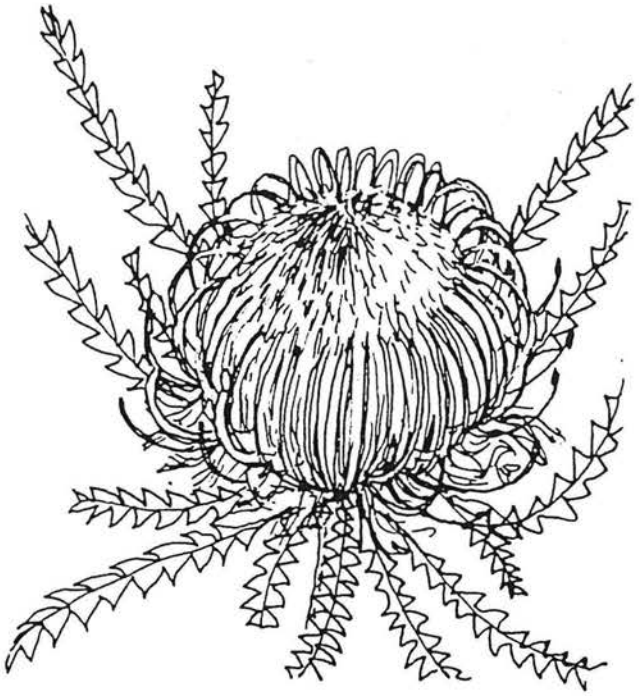

APPENDIX 1

Definitions of remnant vegetation types

Definitions of remnant vegetation types, Beeston et al (1993).

Vegetation classed as **"remnant vegetation"** has one or more of the following characteristics (Beeston et al., 1993):

* 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 (ie reduction in the number of native species, includes weeds).
* Obvious human disturbance-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 ie are scattered single trees.
* No significant signs or chance of regeneration.

APPENDIX 2

Standard Survey Sheet

(13)

SURVEY TO DETERMINE THE CONSERVATION VALUE OF A ROAD

Roadside Conservation Committee
C - PO Box 104 COMO WA 6152

ROADSIDE MANUAL

Date 11/2/96 Observer(s) B Stewart
Road Name Moores Dairy Rd
Nearest named place Crowaugup
Shire Gnowangerup
Direction of travel SW South
Section no. 9
starting point Treegard Rd Junction
odometer reading 1.6
ending point Jackitup Rd
odometer reading 4.9
length of section 3.3

WIDTH OF ROAD RESERVE

Side of the road	Left	Right
Width of Vegetated roadside		
1-5m	☑	☑
5-20m	☐	☐
over 20m	☐	☐

NATIVE VEGETATION ON ROADSIDE

tree layer	☑	☑
shrub layer	☑ 2	☑ 2
ground layer	☐	☐

RARE FLORA

Rare flora known to be present ☐ ☐
Name

EXTENT OF NATIVE VEGETATION ALONG LENGTH OF ROADSIDE

Less than 20%	☑	☑
20-80%	☐	☐
over 80%	☐	☐

No. OF DIFFERENT NATIVE SPECIES

0-5	☐	☐
6-19	☑ 1	☑ 1
Over 20	☐	☐

Dominant species (if Known) White Gums

WEEDS

Few weeds (under 20% total plants)	☑	☑
Half weeds (20-80% total)	☐	☐
Mostly weeds (over 80% total)	☐ 2	☐ 2
Ground layer totally weeds	☐	☐

Dominant weeds (if known) Wild Grass Rye Grass

VALUE AS A BIOLOGICAL CORRIDOR

Connects uncleared areas	☐	☐
Flowering shrubs for nectar-feeding animals	☐	☐ 2
Large trees with hollows for birds nests	☑ 2	☑
Hollow logs	☑	☑

FAUNA OBSERVED

PREDOMINANT ADJOINING LAND USE

Agricultural crop or pasture:-		
• completely cleared	☐	☐
• scattered trees/shrubs	☑ 1	☑ 1
Uncleared land	☐	☐
Plantation of non-native trees	☐	☐
Urban or Industrial	☐	☐
Railway Reserve parallel to road	☐	☐
Drain Reserve parallel to road	☐	☐

Other

UTILITIES/DISTURBANCES

Disturbances continuous	☐	☐
Disturbances Isolated	☑	☐
Disturbances absent	☐	☐

Type Gravel & Soil Dumps

CONSERVATION VALUE

High	☐	☐
Medium	☑	☑
Low	☐	☐

Reasons Tall Trees

LANDSCAPE VALUE

High	☐	☐
Medium	☑	☑
Low	☐	☐
Avenue of trees	☐	☐

Reasons Tall Trees

GENERAL COMMENTS

L	R
8	cc

APPENDIX 3

Raw data used to calculate the conservation values

Road Name	Section Number	Direction of travel	Start Point	End Point	Section Length	Cons. Value		Nat. Veg		Weeds		Extent. Veg		No. Sp.		Value. Corr		Land Use	
						L	R	L	R	L	R	L	R	L	R	L	R	L	R
AIRPORT RD	1	W	STRATHAVEN RD		2.9	9	2	2	1	2	0	2	2	2	0	1	0	U	U
AIRPORT RD	2	W		GNOWANGERUP TAMBELLUP RD	0.7	9	9	2	2	2	2	2	2	1	1	1	1	S	S
ALBANY-LAKE GRACE RD	1	N	SHIRE BOUNDARY		12.8	10	10	2	2	2	2	2	2	2	2	2	2	U	U
ALBANY-LAKE GRACE RD	2	N			1.0	6	4	2	1	2	1	0	0	0	0	2	2	U	U
ALBANY-LAKE GRACE RD	3	N		NIGHTWELL RD	27.5	5	5	2	2	0	0	0	0	0	0	2	2	S	S
ALBANY-LAKE GRACE RD	4	N	NIGHTWELL RD		1.5	10	8	2	2	2	2	2	2	2	1	2	1	U	U
ALBANY-LAKE GRACE RD	5	N			1.0	7	7	2	2	2	2	1	1	0	0	1	1	S	S
ALBANY-LAKE GRACE RD	6	N			0.4	9	9	2	2	2	2	1	1	2	2	2	2	U	U
ALBANY-LAKE GRACE RD	7	N			0.3	2	1	0	0	1	0	0	0	0	0	0	0	P	P
ALBANY-LAKE GRACE RD	8	N			4.8	8	8	2	2	1	1	1	1	1	1	2	2	S	S
ALBANY-LAKE GRACE RD	9	N			2.5	3	3	1	1	0	0	0	0	0	0	0	0	C	C
ALBANY-LAKE GRACE RD	10	N			0.9	3	3	1	1	0	0	0	0	0	0	0	0	C	C
ALBANY-LAKE GRACE RD	11	N			1.8	4	4	1	1	0	0	0	0	0	0	1	1	C	C
ALBANY-LAKE GRACE RD	12	N			1.2	5	4	2	2	0	0	1	1	0	0	1	1	S	S
ALBANY-LAKE GRACE RD	13	N			3.6	4	4	1	1	0	0	0	0	0	0	1	1	C	C
ALBANY-LAKE GRACE RD	14	N			3.2	11	7	2	2	2	1	1	1	2	0	2	2	C	C
ALBANY-LAKE GRACE RD	15	N			1.0	2	8	0	2	0	1	0	0	0	1	0	2	C	C
ALBANY-LAKE GRACE RD	16	N			3.0	10	10	2	2	2	2	2	2	2	2	1	1	S	S
ALBANY-LAKE GRACE RD	17	N			3.2	8	8	2	2	1	1	1	1	1	1	1	1	C	C
ALBANY-LAKE GRACE RD	18	N			3.0	11	11	2	2	2	2	1	1	2	2	2	2	C	C
ALBANY-LAKE GRACE RD	19	N		TIELINE RD	1.3	10	10	2	2	2	2	2	2	2	2	2	2	U	U
ARALUEN RD	1	E	BROOMEHILL-JERRAMUNGUP RD		2.3	2	2	1	1	0	0	0	0	0	0	0	0	S	S
ARALUEN RD	2	E		GATES	5.6	7	3	2	1	1	0	1	1	1	0	1	1	S	S
ARALUEN RD	3	E			0.4	8	8	2	2	1	1	1	1	1	1	2	2	S	S
ARALUEN RD	4	E			1.1	10	10	2	2	2	2	2	2	1	1	2	2	S	S
BLACK RD	1	N	BROOMEHILL-JERRAMUNGUP RD	HINKLEY RD	0.8	3	3	1	1	0	0	0	0	0	0	1	1	S	S
BLUFF KNOLL RD	1	S	CHESTER PASS RD	CAR PARK	8.0	10	10	2	2	2	2	2	2	2	2	2	2	U	U
BOXWOOD HILL ONGERUP RD	1	W	CRAKERUP RESERVE		3.6	11	11	2	2	2	2	2	2	2	2	2	2	S	S
BOXWOOD HILL ONGERUP RD	2	W			1.6	7	8	2	2	2	2	0	0	2	2	0	0	S	S
BOXWOOD HILL ONGERUP RD	3	N	OAKDALE & BOXWOOD RD		3.6	8	8	2	2	1	1	1	1	1	1	2	2	S	S
BOXWOOD HILL ONGERUP RD	4	N			0.5	12	12	2	2	2	2	2	2	2	2	2	2	C	C
BOXWOOD HILL ONGERUP RD	5	N		FARMGATE KENT LOC 1338	1.5	11	11	2	2	2	2	2	2	2	2	2	2	S	S
BOXWOOD HILL ONGERUP RD	6	N	FARMGATE KENT LOC 1338		5.0	11	11	2	2	2	2	2	2	2	2	2	2	S	S
BOXWOOD HILL ONGERUP RD	7	N	COWELLUP RD		2.0	11	11	2	2	2	2	2	2	2	2	2	2	S	S
BOXWOOD HILL ONGERUP RD	8	N	GRAVEL PIT	PINNACLE RD	2.0	8	9	2	2	2	2	0	0	1	1	2	2	S	S
BOXWOOD HILL ONGERUP RD	9	N	PINNACLE RD		1.9	10	10	2	2	2	2	1	1	2	2	2	2	S	S
BOXWOOD HILL ONGERUP RD	10	N			1.1	5	6	1	1	1	2	0	0	1	1	1	1	S	S
BOXWOOD HILL ONGERUP RD	11	N			0.5	8	8	2	2	2	2	1	1	1	1	1	1	S	S
BOXWOOD HILL ONGERUP RD	12	N			2.3	11	11	2	2	2	2	2	2	2	2	2	2	S	S
BOXWOOD HILL ONGERUP RD	13	N			1.8	8	8	2	2	1	1	1	1	1	1	2	2	S	S
BOXWOOD HILL ONGERUP RD	14	N	HOLDEN RD	END OF ONG GOLF COURSE	4.1	5	5	1	1	1	1	0	0	1	1	1	1	S	S
BREMER BAY RD	1	SE	CHESTER PASS RD		1.0	6	6	1	1	1	1	0	0	1	1	1	1	C	C
BREMER BAY RD	2	SE			10.0	9	9	2	2	1	1	1	1	2	2	1	1	C	C
BREMER BAY RD	3	SE			4.2	9	9	2	2	2	2	1	1	1	1	1	1	C	C
BREMER BAY RD	4	SE			11.3	7	8	1	2	1	1	1	1	1	1	1	1	C	C
BREMER BAY RD	5	SE			1.5	4	4	0	0	2	2	0	0	0	0	0	0	C	C
BREMER BAY RD	6	SE			1.6	8	5	0	0	1	2	2	2	2	1	2	1	S	S
BREMER BAY RD	7	SE			2.6	11	8	2	0	2	2	2	2	2	2	2	2	S	S
BREMER BAY RD	8	SE			6.0	11	11	2	2	2	2	2	2	2	2	2	2	S	S
BREMER BAY RD	9	SE		MONJEBUP RD	2.9	10	3	2	0	0	1	2	2	2	0	2	0	C	C
BRIDGEMAN RD	1	E	HART RD	FOSTERED RD	4.4	8	8	2	2	1	1	1	1	1	1	2	2	S	S
BROOMEHILL-JERRAMUNGUP RD	1	E	SHIRE BOUNDARY		0.6	9	3	2	1	2	0	1	1	2	0	2	1	U	U
BROOMEHILL-JERRAMUNGUP RD	2	E			1.7	3	3	1	1	0	0	0	0	0	0	1	1	P	P
BROOMEHILL-JERRAMUNGUP RD	3	E			1.8	4	3	1	1	0	0	0	0	0	0	2	1	S	S

Road Name	Section Number	Direction of travel	Start Point	End Point	Section Length	Cons. Value L	Cons. Value R	Nat. Veg L	Nat. Veg R	Weeds L	Weeds R	Extent. Veg L	Extent. Veg R	No. Sp. L	No. Sp. R	Value. Corr L	Value. Corr R	Land Use L	Land Use R
BROOMEHILL-JERRAMUNGUP RD	4	E			6.2	4	4	1	1	0	0	0	0	0	0	2	2	S	S
BROOMEHILL-JERRAMUNGUP RD	5	E		STUTLEY ST	0.5	9	2	2	1	2	0	1	1	1	0	2	0	S	S
BROOMEHILL-JERRAMUNGUP RD	6	E	STUTLEY ST		0.5	3	3	1	1	1	1	0	0	0	0	0	0	S	S
BROOMEHILL-JERRAMUNGUP RD	7	E			1.1	3	3	0	0	2	2	0	0	0	0	0	0	I	I
BROOMEHILL-JERRAMUNGUP RD	8	E			1.0	5	5	1	1	2	2	0	0	0	0	1	1	P	P
BROOMEHILL-JERRAMUNGUP RD	9	E			0.3	5	2	1	1	2	0	0	0	0	0	1	0	I	I
BROOMEHILL-JERRAMUNGUP RD	10	E			0.3	3	2	1	1	0	0	0	0	0	0	1	0	S	S
BROOMEHILL-JERRAMUNGUP RD	11	E			4.7	4	4	2	2	0	0	0	0	0	0	1	1	S	S
BROOMEHILL-JERRAMUNGUP RD	12	E			4.1	8	3	2	2	1	0	1	1	1	0	2	0	S	S
BROOMEHILL-JERRAMUNGUP RD	13	E			1.0	5	6	2	2	1	1	0	0	0	0	1	2	S	S
BROOMEHILL-JERRAMUNGUP RD	14	E			0.7	2	8	1	2	1	2	0	0	0	2	0	1	U	U
BROOMEHILL-JERRAMUNGUP RD	15	E			5.4	7	6	2	2	1	1	1	1	0	0	2	1	S	S
BROOMEHILL-JERRAMUNGUP RD	16	E		SHEPHERDSON RD	0.8	8	1	2	0	1	0	1	1	1	0	2	0	S	S
BROOMEHILL-JERRAMUNGUP RD	17	E	SHEPHERDSON RD		1.6	11	11	2	2	2	2	2	2	2	2	2	2	S	S
BROOMEHILL-JERRAMUNGUP RD	18	E			0.7	10	11	2	2	2	2	2	2	2	2	2	2	U	U
BROOMEHILL-JERRAMUNGUP RD	19	E			1.2	2	7	0	1	0	0	0	0	0	2	1	2	S	S
BROOMEHILL-JERRAMUNGUP RD	20	E			0.3	4	10	1	2	1	2	1	1	0	2	1	2	U	U
BROOMEHILL-JERRAMUNGUP RD	21	E			0.4	3	9	1	2	0	1	0	0	0	2	1	2	S	S
BROOMEHILL-JERRAMUNGUP RD	22	E		ALBANY-LAKE GRACE RD	7.4	2	2	1	1	0	0	0	0	0	0	0	0	S	S
BROOMEHILL-JERRAMUNGUP RD	23	E	M1 TURNOFF TO BORDEN	M1 TURNOFF	5.9	5	5	2	2	1	1	0	0	0	0	1	1	S	S
BROOMEHILL-JERRAMUNGUP RD	24	E	ALBANY-LAKE GRACE	CREEK	0.8	4	3	1	1	0	0	0	0	0	0	1	0	C	C
BROOMEHILL-JERRAMUNGUP RD	25	E	CREEK		3.5	9	9	2	2	1	1	1	1	1	1	2	2	C	C
BROOMEHILL-JERRAMUNGUP RD	26	E			0.6	9	8	2	2	1	1	2	2	1	1	2	2	S	S
BROOMEHILL-JERRAMUNGUP RD	27	E			9.9	4	3	1	1	0	0	0	0	0	0	2	1	S	S
BROOMEHILL-JERRAMUNGUP RD	28	E		RUBBISH DUMP SIGN	1.5	7	7	2	2	1	1	1	1	0	0	2	2	S	S
BROOMEHILL-JERRAMUNGUP RD	29	E	RUBBISH DUMP SIGN		1.9	8	11	2	2	1	2	1	1	1	2	2	2	S	S
BROOMEHILL-JERRAMUNGUP RD	30	E		ONGERUP TOWN	0.7	7	7	2	2	1	1	1	1	1	1	2	2	U	U
BROOMEHILL-JERRAMUNGUP RD	31	E	ONGERUP TOWN	ONGERUP PINGRUP RD	0.5	7	7	2	2	1	1	1	1	1	1	2	2	U	U
BROOMEHILL-JERRAMUNGUP RD	32	E	ONGERUP PINGRUP RD	MAGNERS RD	2.3	4	3	1	1	0	0	0	0	0	0	1	0	C	C
BROOMEHILL-JERRAMUNGUP RD	33	E	MAGNERS RD		0.3	8	8	2	2	2	2	1	1	1	1	2	2	U	U
BROOMEHILL-JERRAMUNGUP RD	34	E			1.9	9	9	2	2	2	2	1	1	1	1	2	2	S	S
BROOMEHILL-JERRAMUNGUP RD	35	E			0.8	6	6	2	2	1	1	1	1	1	1	1	1	U	U
BROOMEHILL-JERRAMUNGUP RD	36	E			1.5	10	10	2	2	2	2	1	1	1	1	2	2	C	C
BROOMEHILL-JERRAMUNGUP RD	37	E			0.5	10	12	2	2	2	2	1	1	1	2	2	2	C	C
BROOMEHILL-JERRAMUNGUP RD	38	E		GLEESON RD	3.2	9	10	2	2	1	2	1	1	1	2	2	2	C	C
CAMBELLUP RD	1	S	WILLAMENUP RD		3.7	6	6	2	2	0	0	1	1	1	1	1	1	S	S
CAMBELLUP RD	2	S			0.9	6	6	2	2	0	0	1	1	1	1	1	1	S	S
CAMBELLUP RD	3	S			5.2	8	8	2	2	1	1	1	1	1	1	2	2	S	S
CHILLINUP RD	1	S	BORDEN-BREMER BAY RD		2.5	3	3	2	2	0	0	0	0	0	0	0	0	S	S
CHILLINUP RD	2	S			0.1	6	6	2	2	0	0	1	1	0	0	2	2	S	S
CLEAR HILLS RD	1	E			8.1	7	8	2	2	1	1	1	1	1	1	1	2	S	S
COROMUP RD	1	N	BROOMEHILL-JERRAMUNGUP RD		1.0	8	8	2	2	2	2	2	2	1	1	1	0	U	U
COROMUP RD	2	N			4.3	9	8	2	2	2	1	2	2	2	2	0	0	S	S
COROMUP RD	3	N			1.6	4	4	1	1	1	1	1	1	0	0	0	0	S	S
COROMUP RD	4	N			2.8	9	7	2	2	2	1	2	2	2	1	0	0	S	S
COROMUP RD	5	N			1.7	8	7	2	2	2	1	1	1	2	2	0	0	S	S
COWCHER RD	1	N	RABBIT PROOF FENCE RD		1.6	10	10	2	2	2	2	2	2	2	2	2	2	U	U
COWCHER RD	2	N		SHIRE BOUNDARY	0.8	11	10	2	2	2	2	2	2	2	2	2	2	S	S
COWELLUP RD	1	W	SHIRE BOUNDARY		3.9	11	11	2	2	2	2	2	2	2	2	2	2	S	S
COWELLUP RD	2	W			1.8	9	9	2	2	1	1	1	1	2	2	2	2	S	S
COWELLUP RD	3	W			3.4	11	11	2	2	2	2	2	2	2	2	2	2	S	S
D STEWART RD	1	E	PALLINUP BOUNDARY RD		0.4	1	1	0	0	0	0	0	0	0	0	0	0	S	S
DAWSON RD	1	W	GNOWANGERUP - STIRLING RANGE RD	NE CORNER OF LOT 4844	1.1	7	7	2	2	1	1	1	1	1	1	1	1	S	S
DAY RD	1	NE	DAY RD		1.6	9	10	2	2	1	2	1	1	2	2	2	2	S	S
DAY RD	2	NE			2.0	11	11	2	2	2	2	2	2	2	2	2	2	S	S
DAY RD	3	NE		RABBIT PROOF FENCE RD	0.4	11	11	2	2	2	2	2	2	2	2	2	2	S	S
DEJAGERS RD	1	S	STIRLING ROAD NORTH		4.0	9	9	1	1	2	2	1	1	2	2	2	2	S	S

Road Name	Section Number	Direction of travel	Start Point	End Point	Section Length	Cons. Value		Nat. Veg		Weeds		Extent. Veg		No. Sp.		Value. Corr		Land Use	
						L	R	L	R	L	R	L	R	L	R	L	R	L	R
DEJAGERS RD	2	S			1.0	6	6	1	1	1	1	1	1	1	1	1	1	S	S
DEJAGERS RD	3	S			1.2	6	6	1	1	1	1	1	1	1	1	1	1	S	S
DEJAGERS RD	4	S			0.3	6	6	1	1	1	1	1	1	0	0	2	2	S	S
DEJAGERS RD	5	S			0.6	6	6	1	1	1	1	1	1	1	1	1	1	S	S
DEJAGERS RD	6	S			0.8	5	5	1	1	1	1	0	0	0	0	2	2	S	S
DEJAGERS RD	7	S			1.1	6	6	1	1	1	1	1	1	1	1	1	1	S	S
DOLLEYS RD	1	E	JACKITUP NORTH RD		0.4	7	7	2	2	0	0	2	2	1	1	1	1	S	S
DOLLEYS RD	2	E			2.2	8	8	1	1	1	1	2	2	1	1	2	2	S	S
DOLLEYS RD	3	E			1.4	1	6	0	1	0	1	0	0	0	1	0	1	S	S
DOUGLAS RD	1	N	RABBIT PROOF FENCE RD		4.0	11	11	2	2	2	2	2	2	2	2	2	2	S	S
FOSTER RD	1	S	TIELINE RD	FOSTER RD RESERVE	3.0	8	3	2	2	1	0	1	1	1	0	2	0	S	S
FOSTER RD	2	S	FOSTER RD RESERVE		7.4	10	10	2	2	2	2	1	1	2	2	2	2	S	S
FOSTER RD	3	S			4.2	9	9	2	2	2	2	1	1	1	1	2	2	S	S
FOSTER RD	4	S	BEND IN ROAD	ONGERUP-PINGRUP RD	4.3	11	11	2	2	2	2	2	2	2	2	2	2	S	S
FREEGARDS RD	1	N	MOORE DAM RD		1.0	9	10	2	2	2	2	2	2	1	1	1	2	S	S
GLEESON RD	1	S	RABBIT PROOF FENCE RD	BROOMEHILL-JERRAMUNGUP RD	15.6	9	9	2	2	1	1	1	1	2	2	2	2	S	S
GLENELG RD	1	S	SANDALWOOD RD		0.3	6	6	2	2	0	0	1	1	0	0	1	1	C	C
GLENELG RD	2	S			1.0	7	7	2	2	1	1	1	1	0	0	1	1	C	C
GLENGARRY RD	1	E	CAMBALLUP RD		0.8	3	3	1	1	0	0	0	0	0	0	1	1	S	S
GNOWANGERUP RD	1	N	TIELINE RD		3.2	6	6	1	1	1	1	1	1	1	1	1	1	S	S
GNOWANGERUP RD	2	N		NORTH BOUNDARY RD	0.4	8	8	2	2	2	2	2	2	1	1	1	1	U	U
GNOWANGERUP-STIRLING RANGE RD	1	S	BROOMEHILL-JERRAMUNGUP RD		1.0	8	3	2	1	1	0	1	1	1	0	2	1	S	S
GNOWANGERUP-STIRLING RANGE RD	2	S			1.2	5	6	2	2	1	1	1	1	0	1	0	0	S	S
GNOWANGERUP-STIRLING RANGE RD	3	S			6.8	6	6	1	1	1	1	1	1	1	1	1	1	S	S
GNOWANGERUP-STIRLING RANGE RD	4	S			1.6	2	2	1	1	0	0	0	0	0	0	0	0	S	S
GNOWANGERUP-STIRLING RANGE RD	5	S			2.3	6	6	1	1	1	1	1	1	1	1	1	1	S	S
GNOWANGERUP-STIRLING RANGE RD	6	S			3.2	2	2	1	1	0	0	0	0	0	0	0	0	S	S
GNOWANGERUP-STIRLING RANGE RD	7	S			2.3	5	4	1	1	1	1	1	1	0	0	1	0	S	S
GNOWANGERUP-STIRLING RANGE RD	8	S			1.2	10	10	2	2	2	2	2	2	2	2	1	1	S	S
GNOWANGERUP-STIRLING RANGE RD	9	S			3.6	9	9	2	2	2	2	2	2	1	1	1	1	S	S
GNOWANGERUP-STIRLING RANGE RD	10	S	NEW COUNTRY RD		0.7	7	2	1	0	1	0	1	1	2	0	1	1	S	S
GNOWANGERUP-STIRLING RANGE RD	11	S			1.0	3	3	1	1	1	1	0	0	0	0	1	1	U	U
GNOWANGERUP-STIRLING RANGE RD	12	S			4.9	6	4	1	1	2	1	1	1	1	0	0	0	S	S
GNOWANGERUP-STIRLING RANGE RD	13	S			4.9	7	6	1	1	2	1	1	1	1	1	1	1	S	S
GNOWANGERUP-STIRLING RANGE RD	14	S			1.8	3	4	1	2	0	0	0	0	0	0	1	1	S	S
GNOWANGERUP-STIRLING RANGE RD	15	S		MABINUP RD	1.9	1	1	0	0	0	0	0	0	0	0	0	0	S	S
GNOWANGERUP-STIRLING RANGE RD	16	S	MABINUP RD		0.8	4	8	1	1	1	1	0	0	0	2	1	2	S	S
GNOWANGERUP-STIRLING RANGE RD	17	S			0.9	3	3	1	1	0	0	0	0	0	0	1	1	S	S
GNOWANGERUP-STIRLING RANGE RD	18	S			0.7	2	2	1	1	0	0	0	0	0	0	0	0	S	S
GNOWANGERUP-STIRLING RANGE RD	19	S		CHESTER PASS RD	8.0	9	9	1	1	2	2	2	2	2	2	2	2	U	U
GNOWANGERUP-TAMBELLUP RD	1	S			2.9	7	6	2	2	1	1	1	1	1	1	1	0	S	S
GNOWANGERUP-TAMBELLUP RD	2	S	AIRFIELD RD	PALLINUP RD	7.8	7	8	2	2	1	1	1	1	1	1	1	2	S	S
GNOWANGERUP-TAMBELLUP RD	3	S	PALLINUP RD	SHIRE BOUNDARY	2.0	4	5	1	2	0	0	1	1	1	1	0	0	S	S
GNOWELLEN RD	1	NW	E SHIRE BOUNDARY	SANDALWOOD RD	2.4	10	10	2	2	2	2	2	2	2	2	2	2	U	U
GREAVES HILL RD	1	W	BORDEN BREMER BAY RD		0.2	10	10	2	2	2	2	2	2	2	2	2	2	U	U
GREAVES HILL RD	2	W			1.5	10	10	2	2	2	2	2	2	2	2	2	2	U	U
GREAVES HILL RD	3	W			1.1	4	4	1	1	0	0	0	0	0	0	2	2	S	S
GRIMSTER RD	1	E	ONGERUP PINGRUP RD		3.9	3	3	2	2	0	0	0	0	0	0	0	0	S	S
GULLY RD	1	S	MABINUP RD		0.6	3	3	1	1	0	0	0	0	0	0	1	1	S	S
HART RD	1	N	BROOMEHILL-JERRAMUNGUP RD		1.4	4	4	1	1	1	1	0	0	0	0	1	1	S	S
HART RD	2	N			1.4	9	9	2	2	2	2	1	1	1	1	2	2	S	S
HART RD	3	N		NORTH ONGERUP RD	8.9	10	10	2	2	2	2	1	1	2	2	2	2	S	S
HINKLEY RD	1	E	GNOWANGERUP TOWN		1.3	5	5	2	2	1	1	0	0	0	0	1	1	S	S
HINKLEY RD	2	E			1.3	6	7	2	2	2	2	1	1	0	0	0	1	S	S
HINKLEY RD	3	E			4.3	1	2	0	1	0	0	0	0	0	0	0	0	S	S
HINKLEY RD	4	E	STUTLEY RD		16.0	7	8	2	2	1	1	1	1	1	1	1	2	S	S
HINKLEY RD	5	E			0.5	1	2	0	1	0	0	0	0	0	0	0	0	S	S

Road Name	Section Number	Direction of travel	Start Point	End Point	Section Length	Cons. Value		Nat. Veg		Weeds		Extent. Veg		No. Sp.		Value. Corr		Land Use	
						L	R	L	R	L	R	L	R	L	R	L	R	L	R
HINKLEY RD	6	E			1.1	8	10	2	2	1	2	1	1	1	1	2	2	S	S
HOBBS RD	1	N	MABINUP RD		1.9	7	7	1	1	1	1	1	1	1	1	2	2	S	S
HOBBS RD	2	N			1.8	4	4	1	1	0	0	0	0	0	0	2	2	S	S
HOLDEN RD	1	E	STEWART RD		1.5	10	10	2	2	2	2	1	1	2	2	2	2	S	S
HOLDEN RD	2	E			0.5	10	10	2	2	2	2	1	1	2	2	2	2	S	S
HOLDEN RD	3	E			7.5	10	10	2	2	2	2	2	2	2	2	1	1	S	S
HOLDEN RD	4	E		CORACKORUP RD	2.3	11	11	2	2	2	2	2	2	2	2	2	2	S	S
HYDENUP RD	1	E	GNOWANGERUP - STIRLING RANGE RD		2.8	7	7	2	2	1	1	1	1	1	1	1	1	S	S
HYDENUP RD	2	SE			1.5	7	7	2	2	1	1	1	1	1	1	1	1	S	S
HYDENUP RD	3	SE			2.3	7	8	2	2	1	1	1	1	1	1	1	2	S	S
HYDENUP RD	4	SE			1.8	7	7	2	2	1	1	1	1	1	1	1	1	S	S
HYDENUP RD	5	SE			3.8	5	4	2	2	1	1	1	1	0	0	0	0	S	S
HYDENUP RD	6	SE			0.6	3	3	1	1	1	1	0	0	0	0	0	0	S	S
HYDENUP RD	7	SE			6.2	8	8	2	2	1	1	1	1	1	1	2	2	P	P
J SMITH RD	1	N	BORDEN-BREMER BAY RD		1.2	11	10	2	2	2	2	2	2	2	2	2	2	S	S
JACKITUP NORTH RD	1	N	JACKITUP WEST RD		0.3	8	6	2	1	2	1	1	1	1	0	2	2	U	U
JACKITUP NORTH RD	2	N			2.4	8	8	1	1	2	2	1	1	1	1	2	2	S	S
JACKITUP NORTH RD	3	N			1.3	7	7	2	2	1	1	1	1	1	1	1	1	S	S
JACKITUP NORTH RD	4	N			1.9	1	1	0	0	0	0	0	0	0	0	0	0	S	S
JACKITUP NORTH RD	4	N			0.3	7	7	2	2	2	2	1	1	1	1	1	1	U	U
JACKITUP NORTH RD	5	N		TIELINE RD	2.5	7	7	2	2	1	1	1	1	1	1	1	1	S	S
JACKITUP RD	1	E	KWOBERUP RD		2.5	7	7	1	1	1	1	1	1	1	1	2	2	S	S
JACKITUP RD	2	E			1.0	7	7	2	2	1	1	0	0	1	1	2	2	S	S
JACKITUP RD	3	E			5.3	4	3	2	1	1	1	0	0	0	0	0	0	S	S
JACKITUP RD	4	E			0.3	3	3	1	1	0	0	0	0	0	0	1	1	S	S
JACKITUP RD	5	E			0.9	9	9	2	2	2	2	2	2	1	1	1	1	S	S
JACKITUP RD	6	E			2.1	7	7	2	2	1	1	1	1	1	1	1	1	S	S
JACKITUP WEST RD	1	E	BROOMEHILL-JERRAMUNGUP RD		2.1	6	7	1	1	1	1	1	1	0	1	2	2	S	S
JACKITUP WEST RD	2	E			1.2	7	7	1	1	1	1	1	1	1	1	2	2	S	S
JACKITUP WEST RD	3	E			1.9	6	7	1	1	1	1	1	1	0	1	2	2	S	S
JACKITUP WEST RD	4	E		KWOBERUP RD	1.6	10	10	2	2	2	2	1	1	2	2	2	2	S	S
JACKITUP WEST RD	5	E	KWOBERUP RD		1.6	7	7	1	1	1	1	1	1	1	1	2	2	S	S
JACKITUP WEST RD	6	E		JACKITUP RD	1.6	8	8	2	2	2	2	1	1	1	0	2	2	U	U
JAM RD	1	N	OLD ONGERUP RD		2.8	6	6	2	2	1	1	1	1	1	1	0	0	S	S
JAMVALE RD	1	N	GREAVES HILL RD	BORDEN-BREMER BAY RD	1.6	6	9	2	2	1	1	1	1	0	2	1	2	S	S
JONES RD	1	W			0.7	8	6	2	2	2	1	1	1	1	1	1	0	S	S
JONES RD	2	W			3.1	1	1	0	0	0	0	0	0	0	0	0	0	S	S
JONES RD	3	W			1.0	8	5	2	1	1	1	1	1	1	0	2	2	S	S
KELLY RD	1	W	GNOWANGERUP - STIRLING RANGE RD		8.9	10	10	2	2	2	2	2	2	2	2	1	1	S	S
KWOBERUP RD	1	N			0.6	7	7	2	2	2	2	1	1	1	1	1	0	U	U
KWOBERUP RD	2	N			0.8	5	6	2	2	0	0	1	1	1	1	1	1	U	U
KWOBERUP RD	3	N			1.9	3	4	2	2	0	0	0	0	0	0	0	1	S	S
KWOBERUP RD	4	N			2.0	8	8	2	2	1	1	1	1	1	1	2	2	S	S
KWOBERUP RD	5	N			1.2	5	5	1	1	0	0	1	1	0	0	2	2	S	S
KWOBERUP RD	6	N			1.2	5	5	2	2	0	0	0	0	1	1	1	1	S	S
KWOBERUP RD	7	N			1.2	8	8	2	2	1	1	1	1	1	1	2	2	S	S
KWOBERUP RD	8	N			3.0	7	7	2	2	1	1	1	1	1	1	1	1	S	S
KYBELUP RD	1	W	GNOWANGERUP - STIRLING RANGE RD	LOT 559	3.5	10	10	2	2	2	2	2	2	1	1	2	2	S	S
LAURIER RD	1	E	ALBANY LAKE GRACE RD		3.0	7	7	1	1	1	1	1	1	1	1	2	2	S	S
LAURIER RD	1	S	LAURIER RD		0.9	8	8	2	2	1	1	1	1	1	1	2	2	S	S
LAURIER RD	2	E			1.1	9	9	2	2	2	2	1	1	1	1	2	2	S	S
LAURIER RD	2	S			2.1	10	9	2	2	2	2	1	1	2	1	2	2	S	S
LAURIER RD	3	E			1.1	8	8	2	2	1	1	1	1	1	1	2	2	S	S
LAURIER RD	3	S			1.5	7	7	2	2	1	1	0	0	1	1	2	2	S	S
LAURIER RD	4	E			3.0	9	9	2	2	2	2	1	1	1	1	2	2	S	S
LAURIER RD	4	S			0.2	5	10	2	2	0	2	0	0	0	2	2	2	S	S
LAURIER RD	5	E		LAURIER SOUTH RD	0.8	9	9	2	2	2	2	1	1	1	1	2	2	S	S

Road Name	Section Number	Direction of travel	Start Point	End Point	Section Length	Cons. Value		Nat. Veg		Weeds		Extent. Veg		No. Sp.		Value. Corr		Land Use	
						L	R	L	R	L	R	L	R	L	R	L	R	L	R
LAURIER RD	5	S			0.6	3	10	2	2	0	2	0	0	0	2	0	2	S	S
LAURIER RD	6	S			0.4	4	7	2	2	1	2	0	0	0	2	0	0	S	S
LAURIER RD	7	S		NIGHTWELL RD	0.3	5	5	2	2	1	1	0	0	0	0	1	1	S	S
LAURIER RD	8	S	NIGHTWELL RD		1.5	6	6	2	2	1	1	0	0	0	0	2	2	S	S
LAURIER RD	9	S			1.3	1	1	0	0	0	0	0	0	0	0	0	0	S	S
LAURIER RD	10	S			1.4	9	6	2	2	2	1	1	1	2	0	2	2	U	U
LAURIER RD	11	S			2.6	6	6	2	2	1	1	0	0	0	0	2	2	S	S
LAURIER RD	12	S			0.8	1	1	0	0	0	0	0	0	0	0	0	0	S	S
LAURIER RD	13	S			0.1	3	3	1	1	0	0	0	0	0	0	1	1	S	S
LAURIER RD	14	S		BORDEN RD	2.5	5	4	1	1	1	1	0	0	0	0	2	2	S	S
MABINUP RD	1	E	WESTERN SHIRE BOUNDARY	START OF STIRLING RANGE NATION	5.4	10	10	2	2	2	2	2	2	2	2	2	2	U	U
MABINUP RD	2	E	START OF STIRLING RANGE NATIONAL		2.0	6	8	1	2	1	1	1	1	1	1	1	2	S	S
MABINUP RD	3	E			0.7	4	6	1	1	1	1	0	0	0	1	1	2	S	S
MABINUP RD	4	E			2.1	5	5	1	1	1	1	0	0	0	0	2	2	S	S
MABINUP RD	5	E			1.0	6	6	1	1	1	1	1	1	1	1	1	1	S	S
MABINUP RD	6	E			9.4	7	7	2	2	1	1	0	0	1	1	2	2	S	S
MABINUP RD	7	E			1.9	6	6	1	1	1	1	0	0	1	1	2	2	S	S
MAGITUP RD	1	W	ALBANY - LAKE GRACE RD		1.5	4	4	2	2	0	0	1	1	0	0	0	0	S	S
MAGITUP RD	2	W			0.4	1	4	0	2	0	0	0	0	0	0	0	0	S	S
MAGITUP RD	3	N			1.0	3	3	2	2	0	0	0	0	0	0	0	0	S	S
MAGITUP RD	4	N			1.3	4	4	2	2	0	0	1	1	0	0	0	0	S	S
MAGITUP RD	5	N			1.8	5	5	2	2	0	0	1	1	1	1	0	0	S	S
MAGITUP RD	6	N			1.8	2	2	1	1	0	0	0	0	0	0	0	0	S	S
MAGITUP RD	7	N	APPROACH TO FLOODWAY		1.4	5	5	1	1	0	0	2	2	1	1	0	0	S	S
MAGITUP RD	8	N			0.5	8	8	2	2	2	2	2	2	1	1	0	0	S	S
MAGITUP RD	9	N		MAILEEUP RD	4.1	6	6	2	2	1	1	1	1	1	1	0	0	S	S
MAGITUP RD	10	N	MAILEEUP RD		2.1	6	7	2	2	1	1	1	1	1	1	0	1	S	S
MAGNERS RD	1	S	ONGERUP NORTH RD		4.1	8	3	2	1	2	0	1	1	1	1	1	0	S	S
MAGNERS RD	2	S			1.7	5	5	1	1	1	1	0	0	1	1	1	1	S	S
MAILEEUP RD	1	W	MAGITUP RD		1.7	3	3	1	1	0	0	1	1	0	0	0	0	S	S
MAILEEUP RD	2	W			1.1	5	5	2	2	0	0	1	1	0	0	1	1	S	S
MAILEEUP RD	3	W			0.8	4	4	2	2	0	0	1	1	0	0	0	0	S	S
MAILEEUP RD	4	W			1.4	3	5	2	2	0	0	0	0	0	1	0	0	S	S
MAILEEUP RD	5	W			2.4	4	6	2	2	0	0	1	1	0	1	0	0	S	S
MAILEEUP RD	6	W			1.5	8	5	2	2	2	0	2	2	1	1	0	0	S	S
MAILEEUP RD	7	W			3.9	8	8	2	2	1	1	1	1	1	1	2	2	S	S
MCDONALD RD	1	N	JACKITUP RD		0.6	6	7	1	1	2	2	2	2	0	0	1	1	U	U
MINDARABIN RD	1	N	OLD ONGERUP RD		8.2	10	11	2	2	2	2	2	2	2	2	1	2	S	S
MINDARABIN RD	2	N			5.7	10	10	2	2	2	2	2	2	2	2	1	1	S	S
MINDARABIN RD	3	N		SHIRE BOUNDARY	3.0	9	9	2	2	2	2	2	2	2	2	0	0	S	S
MOORE DAM WEST RD	1	NE	TIELINE RD		0.5	5	5	1	2	0	0	1	1	0	0	2	2	S	S
MOORE DAM WEST RD	2	NE			0.7	8	8	2	2	1	1	1	1	1	1	2	2	S	S
MOORE DAM WEST RD	3	NE			1.7	7	7	2	2	0	0	1	1	1	1	2	2	S	S
MOORE DAM WEST RD	4	NE			1.1	9	8	2	2	1	1	2	2	1	1	2	2	S	S
MOORE DAM WEST RD	5	NE			1.0	9	9	2	2	2	2	1	1	1	1	2	2	S	S
MOORE DAM WEST RD	6	NE			1.1	9	9	2	2	1	1	2	2	1	1	2	2	S	S
MOORE DAM WEST RD	7	NE			2.0	8	8	2	2	1	1	1	1	1	1	2	2	S	S
MOORE DAM WEST RD	8	NE			2.7	8	9	2	2	1	2	1	1	1	1	2	2	S	S
MOORE DAM WEST RD	9	NE			1.2	8	9	2	2	2	2	1	1	1	1	2	2	U	U
MOORES DAM RD	1	N	JACKITUP RD		3.3	8	8	2	2	2	2	0	0	1	1	2	2	S	S
MOORES DAM RD	2	N			1.8	8	8	2	2	2	2	1	1	1	1	1	1	S	S
MOORES DAM RD	3	N			1.0	9	9	2	2	2	2	1	1	1	1	2	2	S	S
MOORES DAM RD	4	N			1.3	6	6	1	1	1	1	1	1	1	1	1	1	S	S
MOORES DAM RD	5	N			1.4	9	9	2	2	2	2	2	2	1	1	1	1	S	S
MOORES DAM RD	6	N			1.6	6	6	1	1	2	2	1	1	0	0	1	1	S	S
MOORES DAM RD	7	N			1.3	9	9	2	2	2	2	2	2	1	1	1	1	S	S
MOORES DAM RD	8	N			2.4	8	9	2	2	2	2	2	2	1	1	1	1	U	U

Road Name	Section Number	Direction of travel	Start Point	End Point	Section Length	Cons. Value		Nat. Veg		Weeds		Extent. Veg		No. Sp.		Value. Corr		Land Use	
						L	R	L	R	L	R	L	R	L	R	L	R	L	R
MOORES DAM RD	9	N			0.5	9	9	2	2	2	2	2	2	1	1	2	2	U	U
MUNGUP SOUTH RD	1	SW	BORDEN BREMER BAY RD	O MEEHANS RD	3.0	6	6	1	1	1	1	0	0	1	1	1	1	C	C
NEW COUNTRY RD	1	E	GNOWANGERUP - STIRLING RANGE RD		7.9	7	7	2	2	1	1	1	1	0	0	2	2	S	S
NEW COUNTRY RD	2	E		HYDENUP RD	2.6	7	7	2	2	1	1	1	1	0	0	2	2	S	S
NIGHTWELL RD	1	N	TOOMPUP SOUTH RD	NIGHTWELL RD	10.6	9	9	2	2	2	2	1	1	1	1	2	2	S	S
NIGHTWELL RD	2	N	NIGHTWELL RD		5.0	8	8	2	2	1	1	1	1	1	1	2	2	S	S
NIGHTWELL RD	3	N			5.7	8	8	2	2	1	1	1	1	1	1	2	2	S	S
NIGHTWELL RD	4	N		ALBANY-LAKE GRACE RD	8.3	8	8	2	2	1	1	1	1	1	1	2	2	S	S
NORTH BOUNDARY RD	1	W	GNOWANGERUP RD		0.4	8	8	2	2	1	1	2	2	1	1	2	1	U	U
NORTH BOUNDARY RD	2	W			4.2	7	6	2	2	0	0	1	1	1	1	2	1	S	S
NORTH BOUNDARY RD	3	W			0.6	11	10	2	2	2	1	2	2	2	2	2	2	S	S
NORTH BOUNDARY RD	4	W		TELYARUP NORTH RD	0.3	8	8	2	2	2	2	1	1	1	1	2	2	U	U
O MEEHAN RD	1	S			9.3	7	7	1	1	2	2	0	0	1	1	1	1	C	C
O MEEHAN RD	2	S			6.5	6	6	2	2	0	0	0	0	1	1	1	1	C	C
OAKDALE RD	1	E	TOOMUP SOUTH RD		2.4	9	10	2	2	2	2	2	2	2	2	1	0	U	U
OAKDALE RD	2	E			0.7	6	5	1	1	0	0	0	0	1	2	2	2	C	C
OAKDALE RD	3	E			0.3	4	5	2	2	1	1	0	0	0	0	0	1	S	S
OAKDALE RD	4	E		BOXHILL ONGERUP RD	1.1	9	7	2	2	2	0	2	2	1	1	1	1	S	S
OLD ONGERUP RD	1	E	BROOMEHILL-JERRAMUNGUP RD		2.9	7	7	2	2	1	1	1	1	1	1	1	1	S	S
OLD ONGERUP RD	2	E			5.1	8	8	2	2	1	1	1	1	1	1	2	2	S	S
OLD ONGERUP RD	3	E			3.1	6	6	2	2	1	1	1	1	1	1	0	0	S	S
OLD ONGERUP RD	4	E			2.5	11	11	2	2	2	2	2	2	2	2	2	2	S	S
OLD ONGERUP RD	5	E			3.2	9	9	2	2	2	2	1	1	2	1	1	2	S	S
OLD ONGERUP RD	6	E			1.5	9	9	2	2	2	2	2	2	2	2	0	0	S	S
OLD ONGERUP RD	7	E			2.6	1	1	0	0	0	0	0	0	0	0	0	0	S	S
OLD ONGERUP RD	8	E		LAKE GRACE RD	5.1	5	5	1	1	1	1	1	1	0	0	1	1	S	S
ONGERUP NORTH RD	1	E	ALBANY - LAKE GRACE RD		1.1	1	1	0	0	0	0	0	0	0	0	0	0	S	S
ONGERUP NORTH RD	2	E	ONGERUP ROCKS RESERVE		1.6	3	2	1	1	0	0	0	0	0	0	1	1	S	S
ONGERUP NORTH RD	3	E	PLEASANT PASTURES GATE		4.3	8	8	2	2	1	1	1	1	1	1	2	2	S	S
ONGERUP NORTH RD	4	E			0.4	4	4	2	2	0	0	1	1	0	0	0	0	S	S
ONGERUP NORTH RD	5	E			0.7	10	9	2	2	2	2	2	2	1	1	2	2	S	S
ONGERUP NORTH RD	6	E			0.9	9	9	2	2	2	2	1	1	1	1	2	2	S	S
ONGERUP NORTH RD	7	E			1.8	6	6	2	2	0	0	1	1	0	0	2	2	S	S
ONGERUP NORTH RD	8	E	ONGERUP - PINGRUP RD		1.8	2	4	0	1	0	0	0	0	0	0	1	1	S	S
ONGERUP NORTH RD	9	E			2.3	2	2	1	1	0	0	0	0	0	0	0	0	S	S
ONGERUP NORTH RD	10	E			2.2	5	5	2	2	0	0	1	1	0	0	1	1	S	S
ONGERUP-PINGRUP RD	1	N	BROOMEHILL-JERRAMUNGUP RD	ONGERUP NORTH RD	7.0	4	4	1	1	2	2	0	0	0	0	0	0	S	S
ONGERUP-PINGRUP RD	2	N	ONGERUP NORTH RD	TIE LINE RD	10.0	7	7	2	2	2	2	1	1	1	1	0	0	S	S
ONGERUP-PINGRUP RD	3	N	TIE LINE RD	KENT SHIRE BOUNDARY	4.7	6	5	2	2	0	2	2	2	1	0	0	0	S	S
P JONES RD	1	S	RABBIT PROOF FENCE RD		1.9	11	11	2	2	2	2	2	2	2	2	2	2	S	S
P JONES RD	2	S			0.4	11	11	2	2	2	2	2	2	2	2	2	2	S	S
P JONES RD	3	S		PARK RD	3.7	8	2	0	0	2	0	1	1	2	1	2	0	S	S
P JONES RD	4	S		PARK RD	3.7	8	9	2	2	1	1	1	1	1	2	2	2	S	S
P JONES RD	5	S	PARK RD		2.5	7	3	2	0	1	0	0	0	1	0	2	2	S	S
PALLINUP BOUNDARY RD	1	N	CLEAR HILLS RD	D STEWARTS RD	1.3	2	3	1	1	0	0	0	0	0	0	0	1	S	S
PALLINUP BOUNDARY RD	2	N	D STEWARTS RD		0.6	5	5	2	2	0	0	0	0	0	0	2	2	S	S
PALLINUP BOUNDARY RD	3	N		GILLESPIE RD	1.9	4	4	2	2	0	0	0	0	0	0	1	1	S	S
PALLINUP BOUNDARY RD	4	N	GILLESPIE RD		1.0	6	5	2	2	1	1	0	0	0	0	2	1	S	S
PALLINUP BOUNDARY RD	5	N			1.9	6	6	2	2	1	1	0	0	0	0	2	2	S	S
PALLINUP RD	1	NW	GNOWANGERUP-TAMBELLUP RD	SHITE BOUNDARY	2.2	11	11	2	2	2	2	2	2	2	2	2	2	S	S
PARK RD	1	W	SHIRE BOUNDARY		2.9	11	11	2	2	2	2	2	2	2	2	2	2	S	S
PARK RD	2	W			3.5	11	11	2	2	2	2	2	2	2	2	2	2	S	S
PARK RD	3	W			2.5	3	8	1	2	1	2	0	0	0	1	0	1	S	S
PARK RD	4	W			3.9	11	8	2	2	2	1	2	2	2	1	2	2	S	S
PARK RD	5	W			7.6	11	11	2	2	2	2	2	2	2	2	2	2	S	S
PARK RD	6	W		ONGERUP PINGRUP RD	1.0	8	1	2	0	1	0	1	1	1	0	2	0	S	S
PEERUP RD	1	SE	LAKE GRACE RD	BROOMEHILL-JERRAMUNGUP RD	11.1	6	6	1	1	0	0	1	1	1	1	2	2	S	S

Road Name	Section Number	Direction of travel	Start Point	End Point	Section Length	Cons. Value		Nat. Veg		Weeds		Extent. Veg		No. Sp.		Value. Corr		Land Use	
						L	R	L	R	L	R	L	R	L	R	L	R	L	R
PENDALUP RD	1	S	BOXHILL RD		1.3	9	9	2	2	2	2	2	2	1	1	1	1	S	S
PENDALUP RD	2	S			2.4	9	9	2	2	2	2	1	1	1	1	2	2	S	S
PENDALUP RD	3	S			5.5	9	9	2	2	2	2	1	1	1	1	2	2	S	S
PINNACLE	1	E	TOOMPUP SOUTH RD		1.7	3	11	1	2	0	2	0	0	0	2	0	2	C	C
PINNACLE	2	E			3.8	8	10	2	2	2	2	1	1	1	1	1	2	S	S
RABBIT PROOF FENCE RD	1	ESE	SHIRE BOUNDARY	FENCE ON LHS	5.9	10	11	2	2	2	2	2	2	2	2	2	2	U	U
RABBIT PROOF FENCE RD	2	ESE	FENCE ON LHS		0.6	7	10	2	2	2	2	1	1	0	1	1	2	S	S
RABBIT PROOF FENCE RD	3	ESE			1.1	4	11	1	2	0	2	0	0	1	2	1	2	S	S
RABBIT PROOF FENCE RD	4	ESE		GLEESON RD	0.3	6	11	2	2	1	2	0	0	1	2	1	2	S	S
RABBIT PROOF FENCE RD	5	ESE	GLEESON RD		5.0	11	11	2	2	2	2	2	2	2	2	2	2	S	S
RABBIT PROOF FENCE RD	6	ESE		SHIRE BOUNDARY	4.8	11	11	2	2	2	2	2	2	2	2	2	2	S	S
RICHARDSON RD	1	S	AIRPORT RD		0.8	8	8	2	2	1	1	1	1	1	1	2	2	S	S
ROBERT WELLSTEAD	1	S	BREMER BAY RD		2.3	2	2	0	0	0	0	0	0	0	0	0	0	C	C
ROUT RD	1	W	ALBANY LAKE GRACE RD		0.3	8	6	2	2	1	1	1	1	1	0	2	1	S	S
ROUT RD	2	W			1.8	7	7	1	1	1	1	1	1	1	1	2	2	S	S
SANDALWOOD RD	1	E	AMELUP		10.1	4	4	2	2	0	0	0	0	0	0	1	1	S	S
SANDALWOOD RD	2	E			8.8	6	6	2	2	0	0	1	1	0	0	2	2	D	D
SANDALWOOD RD	3	E			4.8	8	8	2	2	1	1	1	1	1	1	1	1	C	C
SANDALWOOD RD	4	E			6.7	10	10	2	2	1	1	2	2	2	2	2	2	S	S
SCHMEDJE RD	1	S	OAKDALE RD		0.8	6	6	2	2	1	1	0	0	1	1	1	1	S	S
SCHMEDJE RD	2	S			1.6	2	1	1	0	0	0	0	0	0	0	0	0	S	S
SCHMEDJE RD	3	S		END OF ROAD	1.0	5	5	2	2	1	1	0	0	0	0	1	1	S	S
SHEPHERDSON RD	1	SE	NEAR BROOMEHILL-JERRAMUNGUP R		0.8	11	11	2	2	2	2	2	2	2	2	2	2	R	R
SHEPHERDSON RD	12	SE			1.1	8	9	2	2	1	2	1	1	1	1	2	2	S	S
SHILLINGS RD	1	W	BROOMEHILL-JERRAMUNGUP RD	ROAD CLOSED	0.3	4	4	1	1	1	1	0	0	0	0	1	1	S	S
SIX MILE RD	1	S	MAGITUP RD		1.8	3	3	1	1	0	0	0	0	0	0	1	1	S	S
SIX MILE RD	2	S			1.8	3	3	1	1	0	0	0	0	0	0	1	1	S	S
SIX MILE RD	3	S			2.0	6	6	2	2	1	1	0	0	0	0	2	2	S	S
SIX MILE RD	4	S			2.7	7	7	1	1	1	1	1	1	1	1	2	2	S	S
SMITH RD	1	E	ALBANY LAKE GRACE RD		1.8	4	4	1	1	1	1	0	0	0	0	1	1	S	S
SMITH RD	2	E			0.3	6	6	1	1	1	1	0	0	0	0	2	2	C	C
SMITH RD	3	E			1.6	4	4	1	1	1	1	0	0	0	0	1	1	S	S
SOLDIERS RD	1	W	GNOWANGERUP TOWN		1.2	1	1	0	0	0	0	0	0	0	0	0	0	S	S
SOLDIERS RD	2	W			2.4	1	1	0	0	0	0	0	0	0	0	0	0	S	S
SOLDIERS RD	3	W			0.4	8	8	2	2	1	1	1	1	1	1	2	2	S	S
SOLDIERS RD	4	W			1.5	6	6	1	1	1	1	1	1	0	0	2	2	S	S
SOLDIERS RD	5	W			8.4	3	3	0	0	0	0	0	0	0	0	2	2	S	S
SOLDIERS RD	6	W			0.3	8	8	2	2	1	1	1	1	1	1	2	2	S	S
SOLDIERS RD	7	W		MARTINUP	1.2	3	3	0	0	0	0	0	0	0	0	2	2	S	S
STEWARTS RD	1	S	BROOMEHILL-JERRAMUNGUP RD		0.3	5	7	1	2	1	0	1	1	1	2	0	2	S	S
STEWARTS RD	2	S			0.2	4	10	1	2	2	2	0	0	0	2	0	2	S	S
STEWARTS RD	3	S			0.2	3	3	1	1	1	1	0	0	0	0	0	0	S	S
STEWARTS RD	4	S		STEWARTS GATE	1.3	6	8	1	1	2	2	2	2	0	0	0	2	S	S
STEWARTS RD	5	S	STEWARTS GATE	GATEWAY	0.5	7	2	1	1	1	0	1	1	1	0	2	0	S	S
STEWARTS RD	6	S	GATEWAY		0.7	2	2	1	1	0	0	0	0	0	0	0	0	S	S
STEWARTS RD	7	S			0.5	5	1	1	0	1	0	1	1	0	0	1	0	S	S
STEWARTS RD	8	S			2.1	9	9	2	2	2	2	1	1	1	1	2	2	S	S
STIRLING NORTH RD	1	W	ALBANY - LAKE GRACE RD		7.7	6	6	2	2	0	0	1	1	0	0	2	2	S	S
STIRLING NORTH RD	2	W			9.2	6	7	2	2	0	1	1	1	1	1	1	1	S	S
STIRLING NORTH RD	3	W		EASTERN SHIRE BOUNDARY	6.8	7	7	2	2	1	1	1	1	1	1	1	1	S	S
STIRLING RANGE DR	1	W	CHESTER PASS RD		16.7	10	10	2	2	2	2	2	2	2	2	2	2	U	U
STRATHAVEN RD	1	SE	BROONEHILL-JERRAMUNGUP RD		7.2	8	6	2	2	1	1	1	1	1	1	2	0	S	S
STUTLEY RD	1	S	HINKLEY RD		2.3	5	5	1	1	1	1	0	0	0	0	2	2	S	S
TELYARUP RD	1	S	TIELINE RD		1.8	7	7	2	2	1	1	1	1	0	0	2	2	S	S
TELYARUP RD	2	S			0.5	1	1	0	0	0	0	0	0	0	0	0	0	S	S
TELYARUP RD	3	S		JACKITUP RD	5.8	5	5	0	0	1	1	1	1	0	0	2	2	S	S
TELYARUP RD	3	S		JACKITUP RD	4.5	5	5	0	0	1	1	1	1	0	0	2	2	S	S

Road Name	Section Number	Direction of travel	Start Point	End Point	Section Length	Cons. Value		Nat. Veg		Weeds		Extent. Veg		No. Sp.		Value. Corr		Land Use	
						L	R	L	R	L	R	L	R	L	R	L	R	L	R
TIELINE RD	1	W	ONGERUP PINGRUP RD	END OF NATURE RESERVE	2.5	8	9	2	2	2	2	2	2	1	1	1	1	U	U
TIELINE RD	2	W	END OF NATURE RESERVE	NATURE RESERVE	5.5	10	10	2	2	2	2	2	2	1	1	2	2	S	S
TIELINE RD	3	W	NATURE RESERVE	END OF NATURE RESERVE	1.0	9	9	2	2	2	2	2	2	1	1	1	1	S	S
TIELINE RD	4	W	END OF NATURE RESERVE	ALBANY - LAKE GRACE RD	1.5	9	9	2	2	2	2	2	2	1	1	1	1	S	S
TIELINE RD	5	W	ALBANY - LAKE GRACE RD	MINDARABIN RD	12.2	9	9	2	2	2	2	2	2	1	1	1	1	S	S
TIELINE RD	6	W	MINDARABIN RD	MOORES DAM RD	11.3	8	8	2	2	2	2	1	1	1	1	1	1	S	S
TIELINE RD	7	W	MOORES DAM RD	KWOBERUP RD	9.0	6	7	1	2	2	2	1	1	0	0	1	1	S	S
TIELINE RD	8	W	KWOBERUP RD	EASTWOOD RD	6.5	6	6	2	2	1	1	1	1	0	0	1	1	S	S
TIELINE RD	9	W	EASTWOOD RD		2.5	4	4	2	2	1	1	0	0	0	0	0	0	S	S
TOOLBRUNUP RD	1	W	CHESTER PASS RD		4.8	10	10	2	2	2	2	2	2	2	2	2	2	U	U
TOOMPUP SOUTH RD	1	S	BROOMEHILL-JERRAMINGUP RD		2.4	9	9	2	2	2	2	1	1	1	1	1	1	C	C
TOOMPUP SOUTH RD	2	S			2.2	9	9	2	2	2	2	1	1	1	1	1	1	C	C
TOOMPUP SOUTH RD	3	S			5.7	9	9	2	2	2	2	1	1	1	1	1	1	C	C
TOOMPUP SOUTH RD	4	S			2.8	10	10	2	2	2	2	1	1	2	2	1	1	C	C
TOOMPUP SOUTH RD	5	S			4.9	10	10	2	2	2	2	1	1	1	1	2	2	C	C
TOOMPUP SOUTH RD	6	S			5.0	10	8	2	2	2	2	1	1	2	1	1	1	C	C
TOOMPUP SOUTH RD	7	S			4.7	4	4	2	2	0	0	0	0	0	0	1	1	S	S
TOOMPUP SOUTH RD	8	S			0.4	4	8	1	2	2	0	0	0	0	2	0	2	S	S
TOOMPUP SOUTH RD	9	S			2.0	4	4	1	1	0	0	0	0	1	1	0	0	C	C
WHITE RD	1	N	CLEAR HILLS RD		5.2	8	8	2	2	1	1	1	1	1	1	2	2	S	S
WILLEMMENUP RD	1	N	GNOWANGERUP-TAMBELLUP RD	CLEAR HILLS RD	4.0	9	9	2	2	1	1	2	2	1	1	2	2	S	S
WOODLAND RD	1	N	BROOMEHILL GERRAMUNGUP RD		2.7	4	3	1	1	1	1	0	0	0	0	1	0	S	S
XMAS FARM	1	E	WILLEMMENUP RD	GNOWANGERUP-TAMBELLUP RD	5.8	8	8	2	2	1	1	1	1	1	1	2	2	S	S
					1152.1														

NB: Direction of travel relates to direction of road according to MRWA's centreline capture.

APPENDIX 4

Generic Code of Practice

A GENERIC CODE OF PRACTICE FOR ROADSIDE CONSERVATION DURING ROAD CONSTRUCTION AND ROAD MAINTENANCE OPERATIONS BY LOCAL GOVERNMENT

June 1999

The Roadside Conservation Committee

Introduction

Aims of the Code of Practice

To balance road design and road safety requirements with all other values associated with roadsides in the Shire.

To achieve this it will be necessary to:

- Account for the needs of ratepayers, council work teams, and other organisations with responsibilities or interests in roads and roadsides;
- Develop cost effective roadworks and maintenance programs;
- Protect road reserves and the adjoining land from erosion, weeds and disease;
- Minimise disturbance and clearance of vegetation; and
- Use the Roadside Conservation Committee map of conservation values as a basis for planning/management decisions so as to identify potential conflict situation and ameliorate against them.

Benefits of a Code of Practice

- A fresh start on road and road reserve management which will allow for the competing demands and values of road reserves and do this within the context of the surrounding environment rather than in isolation from it.
- Improve communication, consultation and cooperation throughout the Shire staff at all levels so that environmental considerations are integral to any works program, rather than an additive to it.
- Set out clear responsibilities for roadside works between personnel within the Shire.
- The development of road works and road maintenance techniques which improve the overall environment of the roadway.
- Build on the skills and experience of works crews in environmental road management and maintenance.
- The development of works appropriate to the special values of particular roadsides, whether for safety, fire prevention, erosion or wildlife.

A Code of Practice is:

- A clear direction for on-ground staff.
- A clear understanding of the issues involved.
- Clear and strategic directions and management guidelines.
- A clear allocation of responsibilities.
- Flexible to adjust to changing circumstances.
- A participatory process between staff and the community.

Management Goals

- Protect indigenous flora and fauna values.
- Maintain and enhance visual amenity and landscape quality.
- Prevent further land degradation such as soil erosion.
- Prevent the invasion and spread of weeds and soil borne fungal pathogens.

Management Aims

- Ensure the safe function of the road and protect the road formation.
- Minimise the risk and impact of wildfire through weed control.
- Protect and restore indigenous vegetation communities on roadsides.
- Protect rare and priority species of flora and fauna on roadsides.
- Prevent further land degradation on roadsides.
- Control the spread of weed and fungal pathogens on roadsides.
- Maintain and enhance the visual amenity and landscape quality of the road reserve.
- Protect the cultural and heritage values of roadsides.
- Protect service utilities located on roadsides.

General Principles

- Areas beyond the road formation that contain vegetation (includes all trees, shrubs and groundcovers whether whole or in part, but excluding environmental and noxious weeds) to any degree of significance will not be disturbed during road construction and road maintenance operations, except where necessary to carry out required works.

- Weeds and soil borne fungal pathogens will not be spread as a result of road construction and road maintenance operations.

Contractor Agreement

- When road works are carried out under contract for the Shire, the Code of Practice for Roadside Conservation in Road Construction and Road Maintenance will be adhered to by the contractor for the duration of the contract.

Road Maintenance

- Works areas or zones should be marked out clearly before commencing works.
- The appropriate type and size of machine will be used for road operations as specified by the Shire Engineer or representative.
- On roadsides of high conservation value, machines will be selected that create the least disturbance to vegetation on the road reserve.
- On roadsides of high conservation value machinery will, where possible, operate from the road formation while carrying out works.
- Table drains will be maintained in a condition that will prevent water flooding the road. Works must be kept to the minimum to meet these requirements.
- When carrying out maintenance of table drains, spoil will be directed towards the road pavement, where it will be removed to a designated dump site as specified by the Shire Engineer or representative.
- Road shoulders will be graded to the minimum required to maintain the road formation and the condition of the road according to the type of road as specified by the Shire Engineer or representative. Under no circumstances is the road reserve to be graded beyond the road formation.
- Vegetation on the road reserve beyond the road formation should not be disturbed during grading operations.
- Scraping of batters should be avoided.
- Vehicles and machinery should not be serviced within roadside vegetation.
- Any soil or other materials required for road construction and maintenance operations should be taken from disease free and weed free areas.
- Where there is no alternative to use soil or other materials from a weed or disease infested sites for road construction or road maintenance operations, the materials should only be used on roads of low conservation value.
- Materials used for road construction or road maintenance operations on high conservation or moderate conservation roads should wherever safe be temporarily piled on the road formation or on an existing cleared area in close proximity to the work site.

- All excess materials from road construction or road maintenance operations will be removed at completion of works to a designated site of low conservation value as specified by the Shire Engineer or representative.

- Pits for gravel, soil or other materials will not be dug from the roadside.

Vegetation Removal

- When it is deemed necessary to remove, destroy or lop indigenous vegetation the Foreman of the work crew has a responsibility to ensure that no indigenous vegetation, other than that designated, is removed, destroyed or lopped and that indigenous vegetation beyond the working zone is not disturbed.

- Only the minimum vegetation necessary to meet required works should be marked for removal. If more vegetation needs to be removed to complete required works than originally marked, the Shire engineer or representative will be consulted prior to undertaking works.

- All other vegetation on the road reserve should not be disturbed.

- Areas of regenerating indigenous vegetation on high conservation roadsides should be clearly identified on the ground before mowing or slashing operations are undertaken.

- Areas of regenerating indigenous vegetation on medium and low conservation roadsides should be avoided during mowing or slashing operations.

- Dead trees should be retained on the roadside, unless they pose a significant hazard as specified by the Shire Engineer or representative, to provide habitat for wildlife.

- Limbs on dead trees that pose a significant hazard as specified by the Shire Engineer or representative will be removed. The rest of the tree should be retained on the road reserve to provide habitat for wildlife.

- Pruning works will be carried out so as to minimise the extent of wounding and enhance callus formation.

- Tree stumps left after pruning or vegetation removal works will be cut as close as possible to the ground.

- Vegetation to be removed should be felled in the direction that minimises damage to surrounding vegetation, preferably onto the road formation or other cleared area.

- Indigenous vegetation that must be removed will be chipped and either returned to the site, used in rehabilitation works or made available for community projects.

- Larger vegetation that can not be chipped will be stock piled in a cleared area for public removal or returned to the Shire Depot and made available at an appropriate time for firewood.

Vegetation Removal cont.

- All attempts to carry out sawing, splitting and chipping of felled vegetation should be done with due regard to the understorey. These activities should be restricted to as few sites as possible.

- Pruning required in the vicinity of powerlines should be carried out in accordance with Western Power's Code of Practice for tree clearing.

Site Rehabilitation

- In the event that major works are required that modify existing indigenous vegetation on road sides, rehabilitation of the site should be encouraged. To achieve this, it is recommended that the guidelines proposed by the Roadside Conservation Committee are adhered to.

- Seed from indigenous plants should be collected over a period of time to allow for sees from a range of species to be collected, from the roadside prior to works commencing. N.B. CALM permit is required.

- Machinery should be chosen to ensure that vegetation to be chipped is free of top soil.

- Top soil should be removed prior to works commencing and stock piled in a cleared area, for a period no longer than six months, to be spread over the site at completion of works.

- Sub soil in the works area should be ripped at completion of works to avoid compaction, before top soil is spread over the site.

- Indigenous vegetation should be chipped and returned to the site at completion of works.

Weed and Pathogen Control

- The Shire will initiate training for outdoor staff to identify environmental and noxious weeds found in the district.

- Weed control methods that minimise disturbance to native vegetation will be implemented. Refer to Chapter 10 of the Roadside Conservation Committee Manual.

- A reporting method to record the location and spread of weeds along the roadsides should be devised and control measures planned accordingly.

- Shrub weeds should not be removed when they are in flower or are seeding unless there is no alternative.

Weed and Pathogen Control cont.

- Where shrub weeds must be removed when in flower or are seeding, they will be transported to a designated site, as specified by the Shire Engineer or representatives, for disposal. Such material should be covered to prevent weed seeds blowing onto the roadside and colonising further areas.

- Vehicles and machinery working in weed infested areas or known pathogen areas should, where possible, be cleaned of soil and washed down thoroughly prior to commencing work on a road of high conservation value.

- Vehicles and machinery should, where practical, be cleaned of soil and washed down thoroughly each day to prevent the further spread of weeds and soil borne diseases.

Herbicides

- Herbicides should only be used in the following situations:

- to control noxious and environmental weeds
- in the event that rehabilitation programs are undertaken
- to control exotic grass and weed growth around roadside facilities and road signs.
- heavy mulching at the base of road facilities and road signs is a preferred alternative to using herbicides
- to control exotic grasses and weed growth in inaccessible situations

- Herbicides will only be used by trained staff, and in accordance with manufacture instructions.

- Except in the control of noxious and specific environmental weeds, only herbicides with the active ingredient of glyphosate will be used to control weeds.

- Spot spraying with a back pack, gas gun or the use of a rope wick applicator are the preferred methods of applying herbicides.

- Records of herbicide use along roadsides will be kept.

Vehicle and Machinery Access and Parking

- Vehicles and machinery should not attempt to turn around on a high conservation road, unless at a suitable site where roadside vegetation will not be disturbed.

- Vehicles and machinery should not deviate from the road formation onto the road reserve during road works.

- Where vehicles and machinery are left for a period of time or overnight they should be parked in a designated wayside stop or private land of low conservation value.

Stock Pile Sites

- A set number of stock pile sites will be designated and approved by the Shire Engineer at strategic locations throughout the Shire.
- All statutory authorities and contractors undertaking works in the municipality or Shire will be supplied with a location map of designated stock pile sites by the Shire Engineer or representative.
- Any works carried out that require stock piling of materials will use designated stock pile sites only.
- New stock pile sites will not be located on roadsides of high conservation value or roadsides adjacent to vegetated areas of high conservation value.
- Stock pile sites that already exist on or in close proximity to roadsides of high conservation value or other high quality areas of vegetation will be monitored by the Shire for weed growth and the presence of soil borne pathogens such as the cinnamon fungus (*Phytophthora cinnamomi*) and the necessary controls implemented.

Waste Management

- Dump sites for disposing of excess materials from road construction or road maintenance operations and the disposal of pest plants, will be designated at strategic locations throughout the municipality by the Shire Engineer.
- All statutory authorities and contractors undertaking works in the Shire or municipality will be supplied with a list and location map of dump sites, by the Shire Engineer or representative.
- The Shire Engineer or representative is responsible to monitor all dump sites and provide new locations to all statutory authorities and contractors, as becomes necessary.
- Soil piles created from grading of shoulders or drains that cannot be retained safely on the road formation will be removed to a designated site or site of low conservation value as specified by the Shire Engineer or representative and not spread over existing vegetation or dumped on a nearby roadside.
- Litter and excess materials left over from road construction or road maintenance operations will be removed and disposed of at a designated site or site of low conservation value as specified by the Shire Engineer or representative and not spread over existing vegetation or dumped on a nearby roadside.

APPENDIX 5

Plant species in the Shire of Gnowangerup

Plant species in the Shire of Gnowangerup

Acacia acanthoclada
Acacia acanthoclada subsp. acanthoclada
Acacia acuminata subsp. acuminata ms
Acacia acutata
Acacia aemula
Acacia aemula subsp. muricata
Acacia aff. merrallii
Acacia amputa ms
Acacia applanata
Acacia arcuatilis ms P2
Acacia assimilis subsp. atroviridis
Acacia awestoniana R
Acacia baxteri
Acacia bidentata
Acacia bifaria P3
Acacia biflora
Acacia binata
Acacia browniana var. intermedia
Acacia cassicula
Acacia chamaeleon
Acacia chrysocephala
Acacia cochlearis
Acacia consobrina
Acacia coolgardiensis subsp. coolgardiensis
Acacia crassistipula
Acacia crispula
Acacia cupularis
Acacia declinata P3
Acacia delphina
Acacia densiflora
Acacia dictyoneura P2
Acacia dilatata
Acacia dissona var. dissona
Acacia divergens
Acacia drummondii
Acacia drummondii subsp. elegans
Acacia erinacea
Acacia extensa
Acacia ferocior
Acacia glaucoptera
Acacia gonophylla
Acacia harveyi
Acacia hastulata
Acacia hilliana
Acacia imparilis ms P2
Acacia laricina var. laricina
Acacia lasiocalyx
Acacia lasiocarpa var. bracteolata
Acacia lasiocarpa var. sedifolia
Acacia leioderma
Acacia leptalea ms R
Acacia leptospermoides subsp. leptospermoides
Acacia lineolata subsp. lineolata
Acacia littorea
Acacia loxophylla
Acacia lullfitziorum ms P3
Acacia luteola
Acacia mackeyana
Acacia maxwellii
Acacia microbotrya
Acacia mimica var. angusta
Acacia moirii subsp. moirii
Acacia multispicata
Acacia mutabilis subsp. incurva ms P1
Acacia mutabilis subsp. mutabilis ms
Acacia mutabilis subsp. rhynchophylla ms P3
Acacia myrtifolia
Acacia newbeyi P3
Acacia octonervia P3
Acacia papulosa P2
Acacia patagiata
Acacia pravifolia
Acacia pulchella var goadbyi
Acacia pulchella var. goadbyi
Acacia pulviniformis
Acacia pycnocephala
Acacia redolens
Acacia saligna
Acacia shuttleworthii
Acacia sphacelata subsp. recurva ms
Acacia sphacelata subsp. sphacelata ms
Acacia spongolitica
Acacia squamata
Acacia subcaerulea
Acacia sulcata var. planoconvexa
Acacia sulcata var. platyphylla
Acacia tetanophylla
Acacia tetragonocarpa
Acacia triptycha
Acacia trulliformis ms P1
Acacia varia var. parviflora
Acacia veronica P3
Acacia viscifolia
Acacia willdenowiana
Acaena echinata
* Acetosella vulgaris
Acrotriche cordata
Acrotriche ramiflora
Actinobole uliginosum
Actinodium calocephalum ms
Actinostrobus pyramidalis
Actinotus glomeratus
Actinotus leucocephalus
Actinotus rhomboideus P2
Adenanthos apiculatus
Adenanthos cuneatus
Adenanthos filifolius P3
Adenanthos flavidiflorus
Adenanthos linearis P2
Adenanthos meisneri
Adenanthos obovatus
Adenanthos pungens subsp. pungens R
Adenanthos velutinus R
Agonis floribunda
Agonis hypericifolia
Agonis linearifolia
Agonis marginata
Agonis parviceps
Agonis spathulata
Agrostis preissii
Agrostocrinum scabrum
Aira cupaniana
Aira elegantissima
Allocasuarina campestris
Allocasuarina decussata
Allocasuarina huegeliana
Allocasuarina humilis
Allocasuarina lehmanniana
Allocasuarina lehmanniana subsp. ecarinata
Allocasuarina lehmanniana subsp. lehmanniana
Allocasuarina microstachya
Allocasuarina scleroclada
Allocasuarina thuyoides
Allocasuarina trichodon
Alyogyne hakeifolia
Alyogyne huegelii

Alyogyne huegelii var. grossulariifolia ms
Alyogyne huegelii var. wrayae ms
* Amaranthus albus
Amperea conferta
Amphibromus nervosus
Amphipogon amphipogonoides
Amphipogon debilis var. debilis
Amphipogon turbinatus
Anagallis arvensis
Anarthria gracilis
Anarthria humilis
Anarthria polyphylla
Anarthria prolifera
Anarthria scabra
Andersonia aff. barbata
Andersonia aff. caerulea
Andersonia aff. lehmanniana
Andersonia axilliflora R
Andersonia caerulea
Andersonia echinocephala P3
Andersonia grandiflora P3
Andersonia parvifolia
Andersonia setifolia P3
Andersonia simplex
Angianthus preissianus
Angianthus tomentosus
Anigozanthos bicolor
Anigozanthos bicolor subsp. decrescens
Anigozanthos gabrielae
Anigozanthos humilis
Anigozanthos humilis subsp. humilis
Anigozanthos onycis
Anigozanthos preissii
Anigozanthos rufus
Anthocercis viscosa subsp. viscosa
Anthotium humile
Aotus diffusa ms
Aotus genistoides
Aphelia brizula
Aphelia cyperoides
Apium annuum
Aristida contorta
Arthropodium curvipes
* Asparagus asparagoides
Asplenium aethiopicum P4
Asplenium flabellifolium
Astartea ambigua
Astartea fascicularis
Astartea heteranthera
Asteridea asteroides
Asteridea athrixioides
Asteridea gracilis P1
Asteridea nivea
Astroloma baxteri
Astroloma ciliatum
Astroloma compactum
Astroloma drummondii
Astroloma epacridis
Astroloma pallidum
Astroloma prostratum
Astroloma serratifolium
Astroloma tectum
Atriplex exilifolia
Atriplex pumilio
Atriplex semibaccata
Austrodanthonia caespitosa
Austrodanthonia pilosa
Austrodanthonia setacea
Austrostipa elegantissima
Austrostipa hemipogon
Austrostipa juncifolia
Austrostipa macalpinei
Austrostipa trichophylla
* Avena barbata
Baeckea blackettii
Baeckea crispiflora
Baeckea crispiflora subsp. Ongerup(A.Scougall & C.Garawanta E35) P1
Baeckea latens
Baeckea preissiana
Banksia aculeata
Banksia attenuata
Banksia baueri
Banksia baxteri
Banksia brownii R
Banksia caleyi
Banksia coccinea
Banksia dryandroides
Banksia gardneri var. brevidentata
Banksia gardneri var. gardneri
Banksia grandis
Banksia laevigata subsp. laevigata P4
Banksia littoralis
Banksia media
Banksia meisneri subsp. meisneri
Banksia nutans
Banksia nutans var. cernuella
Banksia oreophila
Banksia repens
Banksia solandri P4
Banksia sphaerocarpa
Banksia sphaerocarpa var. sphaerocarpa
Banksia violacea
* Bartsia trixago
Baumea acuta
Baumea articulata
Baumea juncea
Beaufortia anisandra
Beaufortia bracteosa
Beaufortia cyrtodonta
Beaufortia decussata
Beaufortia empetrifolia
Beaufortia micrantha
Beaufortia micrantha var. micrantha
Beaufortia schaueri
Beaufortia sparsa
Billardiera coriacea
Billardiera sericea
Billardiera variifolia
Blennospora drummondii
Bolboschoenus caldwellii
Boronia albiflora
Boronia busselliana
Boronia coerulescens
Boronia crassifolia
Boronia crenulata
Boronia crenulata var. angustifolia P4
Boronia crenulata var. crenulata
Boronia defoliata
Boronia inconspicua
Boronia inornata
Boronia inornata subsp. inornata
Boronia inornata subsp. leptophylla
Boronia juncea
Boronia nematophylla
Boronia octandra
Boronia oxyantha var. brevicalyx P3
Boronia pulchella
Boronia ramosa
Boronia ramosa subsp. anethifolia

Boronia scabra
Boronia scabra subsp. scabra ms
Boronia spathulata

Boronia stricta
Boronia subsessilis
Boronia ternata var. austrofoliosa ms
Boronia ternata var. foliosa
Borya constricta
Borya laciniata
Borya scirpoidea
Borya sphaerocephala
Bossiaea concinna
Bossiaea divaricata P3
Bossiaea eriocarpa
Bossiaea linophylla
Bossiaea ornata
Bossiaea peduncularis
Bossiaea praetermissa
Bossiaea preissii
Bossiaea rufa
Bossiaea spinescens
Bossiaea walkeri
Brachyloma concolor
Brachyscome aff. ciliaris
Brachyscome aff. glandulosa
Brachyscome ciliaris
Brachyscome exilis
Brachyscome glandulosa
Brachyscome goniocarpa
Brachyscome iberidifolia
Brachyscome perpusilla
Brachyscome perpusilla var. tenella
Brachyscome pusilla
Brachysema bracteolosum
Brachysema celsianum
Brachysema latifolium
* Bracteantha bracteata
* Briza maxima
* Briza minor
* Bromus diandrus
* Bromus hordeaceus
* Bromus rubens
Bulbine semibarbata
* Bupleurum lancifolium
Burchardia multiflora
Caesia micrantha
Caesia occidentalis
* Cakile maritima
Caladenia aphylla
Caladenia barbarossa
Caladenia bryceana subsp. bryceana ms R
Caladenia cairnsiana
Caladenia chapmanii ms
Caladenia discoidea
Caladenia doutchiae
Caladenia falcata
Caladenia filamentosa
Caladenia flava
Caladenia flava subsp. flava ms
Caladenia graminifolia
Caladenia heberleana ms
Caladenia hirta subsp. hirta ms
Caladenia huegelii R
Caladenia latifolia
Caladenia lobata
Caladenia longicauda subsp. eminens ms
Caladenia longiclavata
Caladenia marginata
Caladenia multiclavia
Caladenia nana subsp. nana ms
Caladenia pectinata
Caladenia plicata P4
Caladenia polychroma ms
Caladenia reptans
Caladenia roei
Caladenia saccharata
Caladenia varians subsp. horistes ms
Caladenia vulgata ms
Caladenia x ericksoniae
Caladenia x lavandulacea
Calandrinia uniflora
Calectasia cyanea
Calectasia grandiflora
Callistemon phoeniceus
Callitris drummondii
Callitris roei
Calothamnus affinis P3
Calothamnus crassus P2
Calothamnus gracilis
Calothamnus huegelii
Calothamnus lateralis
Calothamnus lehmannii
Calothamnus microcarpus P2
Calothamnus quadrifidus
Calothamnus quadrifidus var. "unsorted"
Calothamnus sanguineus
Calothamnus schaueri
Calotis erinacea
Calotis lappulacea
Calytrix acutifolia
Calytrix asperula
Calytrix breviseta subsp. stipulosa
Calytrix flavescens
Calytrix leschenaultii
Calytrix pulchella P3
Calytrix similis
Calytrix tetragona
* Carduus pycnocephalus
* Carduus tenuiflorus
Carex inversa
Carpobrotus modestus
* Carthamus lanatus
Cassytha aurea var. hirta
Cassytha flava
Cassytha glabella
Cassytha glabella forma dispar
Cassytha melantha
Cassytha micrantha
Cassytha pomiformis
Cassytha racemosa
Cassytha racemosa forma pilosa
Casuarina obesa
Caustis dioica
* Centaurea melitensis
* Centaurium erythraea
* Centaurium tenuiflorum
Centipeda cunninghamii
Centrolepis drummondiana
Centrolepis glabra
Centrolepis humillima
Centrolepis pilosa
Centrolepis polygyna
Centrolepis strigosa subsp. strigosa
* Cerastium glomeratum
Ceratogyne obionoides
Chaetanthus tenellus
Chamaescilla corymbosa
Chamaescilla spiralis
Chamaexeros serra

Chamelaucium ciliatum
Chamelaucium confertiflorum
Chamelaucium juniperinum ms P2
Chamelaucium pauciflorum pauciflorum ms
Cheilanthes austrotenuifolia
Cheiranthera filifolia var. brevifolia
Cheiranthera filifolia var. filifolia
* Chenopodium album
Chenopodium desertorum subsp. microphyllum
Chenopodium giganteum
* Chenopodium murale
* Chenopodium pumilio
Chloris truncata
Chordifex capillaceus ms
Chordifex laxus ms
Chordifex leucoblepharus ms P1
Chordifex ornatus ms P2
Chordifex serialis ms
Chordifex sphacelatus ms
Choretrum glomeratum var. glomeratum
Chorizema aciculare subsp. aciculare
Chorizema carinatum P3
Chorizema cytisoides
Chorizema glycinifolium
Chorizema rhombeum
Chorizema ulotropis P3
Chorizema uncinatum
Chrysocephalum apiculatum
Chrysocoryne drummondii
Chrysocoryne tridens
* Cirsium vulgare
Clematis pubescens
Coleanthera coelophylla P1
Comesperma ciliatum
Comesperma drummondii
Comesperma flavum
Comesperma lanceolatum P2
Comesperma scoparium
Comesperma spinosum
Comesperma virgatum
Comesperma volubile
Commersonia crispa
Conospermum amoenum
Conospermum bracteosum
Conospermum caeruleum
Conospermum caeruleum subsp. caeruleum
Conospermum caeruleum subsp. oblanceolatum
Conospermum canaliculatum
Conospermum cinereum ms
Conospermum coerulescens subsp. dorrienii ms
Conospermum dorrienii
Conospermum filifolium subsp. australe ms
Conospermum filifolium subsp. filifolium
Conospermum flexuosum subsp. flexuosum
Conospermum floribundum
Conospermum petiolare
Conospermum spectabile P2
Conospermum stoechadis
Conospermum stoechadis subsp. stoechadis
Conospermum teretifolium
Conospermum triplinervium
Conostylis aculeata
Conostylis aculeata subsp. aculeata
Conostylis argentea
Conostylis deplexa
Conostylis misera R
Conostylis pusilla
Conostylis seorsiflora subsp. seorsiflora
Conostylis serrulata
Conostylis setigera
Conostylis setigera subsp. setigera
Conostylis vaginata
Conothamnus aureus
Convolvulus erubescens
* Conyza albida
Coopernookia polygalacea
Coopernookia strophiolata
Corybas dilatatus
Corybas recurvus
Corybas recurvus ms
Corymbia calophylla
Corymbia ficifolia
Corynotheca micrantha
Corynotheca micrantha var. panda
Cotula australis
* Cotula bipinnata
Cotula coronopifolia
Cotula cotuloides
* Cotula turbinata
Craspedia variabilis
Crassula colorata
* Crassula decumbens
* Crassula natans
Crassula sieberiana subsp. tetramera
Cryptandra glabriflora P2
Cryptandra leucopogon
Cryptandra minutifolia subsp. brevistyla
Cryptandra myriantha
Cryptandra pungens
Cryptandra spyridioides
Cryptandra wilsonii
Cyanicula caerulea subsp. apertala ms
Cyanicula gemmata ms
Cyanicula sericea ms
Cyathochaeta avenacea
Cymbonotus preissianus P2
Cymbopogon ambiguus
Cyperochloa hirsuta
Cyperus sanguinolentus
* Cyperus tenellus
Cypselocarpus haloragoides
Cyrtostylis robusta
Cytogonidium leptocarpoides ms
Damasonium minus
Dampiera alata
Dampiera diversifolia
Dampiera eriocephala
Dampiera fasciculata
Dampiera juncea
Dampiera lavandulacea
Dampiera leptoclada
Dampiera linearis
Dampiera loranthifolia
Dampiera pedunculata
Dampiera sacculata
Dampiera tenuicaulis
Danthonia setacea
Darwinia collina R
Darwinia diosmoides
Darwinia halophila ms
Darwinia hypericifolia P4
Darwinia lejostyla P4
Darwinia macrostegia R
Darwinia meeboldii R
Darwinia oxylepis R
Darwinia sp.Mt Success(G.J.Keighery 2299)
Darwinia sp.Stirling Range (G.J.Keighery 5732) R
Darwinia squarrosa R
Darwinia vestita
Darwinia wittwerorum R

Dasypogon bromeliifolius
Daucus glochidiatus
Daviesia abnormis
Daviesia alternifolia
Daviesia angulata
Daviesia articulata
Daviesia crenulata
Daviesia dilatata
Daviesia emarginata
Daviesia flexuosa
Daviesia glossosema P2
Daviesia gracilis
Daviesia hakeoides subsp. subnuda ms
Daviesia incrassata
Daviesia incrassata subsp. incrassata ms
Daviesia lancifolia
Daviesia lancifolia subsp.
Daviesia mesophylla P2
Daviesia obovata P2
Daviesia oppositifolia
Daviesia preissii
Daviesia pseudaphylla R
Daviesia scoparia
Daviesia trigonophylla
Desmocladus castaneus ms
Desmocladus fasciculatus ms
Desmocladus flexuosus ms
Desmocladus myriocladus ms
Desmocladus quiricanus ms
Desmocladus tenuis ms
Deyeuxia drummondii X
Deyeuxia quadriseta
Dianella brevicaulis
Dianella revoluta var. brevicaulis
Dianella revoluta var. divaricata
Dianella revoluta var. revoluta
Diaspasis filifolia
Dichelachne crinita
Dichopogon capillipes
Dichopogon fimbriatus
Dillwynia aff. uncinata
Dillwynia sp.A Perth Flora(R.Coveny 8036)
Dillwynia uncinata
Diplopeltis eriocarpa
Disphyma crassifolium subsp. clavellatum
* Dittrichia viscosa
Diuris laevis
Dodonaea aff. concinna
Dodonaea amblyophylla
Dodonaea bursariifolia
Dodonaea caespitosa
Dodonaea concinna
Dodonaea humifusa
Dodonaea inaequifolia
Dodonaea pinifolia
Dodonaea ptarmicaefolia
Dodonaea stenozyga
Dodonaea viscosa subsp. angustissima
Dodonaea viscosa subsp. spatulata
Drakaea confluens ms R
Drakaea glyptodon
Drakaea gracilis ms
Drakaea thynniphila
Drakonorchis barbarossa ms
Drosera androsacea
Drosera barbigera
Drosera erythrorhiza subsp. erythrorhiza
Drosera huegelii
Drosera leucoblasta
Drosera macrantha
Drosera macrantha subsp. macrantha
Drosera menziesii subsp. penicillaris
Drosera microphylla
Drosera modesta
Drosera neesii subsp. neesii
Drosera pallida
Drosera platypoda
Drosera platystigma
Drosera pulchella
Drosera scorpioides
Drosera stolonifera
Drosera stolonifera monticola
Drosera stolonifera subsp. compacta
Drosera stolonifera subsp. monticola
Drosera subhirtella subsp. subhirtella
Drummondita hassellii
Dryandra anatona R
Dryandra arctotidis
Dryandra armata
Dryandra armata var. armata
Dryandra armata var. ignicida
Dryandra baxteri
Dryandra blechnifolia
Dryandra brownii
Dryandra calophylla P3
Dryandra cirsioides
Dryandra concinna P4
Dryandra conferta var. conferta ms
Dryandra conferta var. parva P2
Dryandra cuneata
Dryandra drummondii
Dryandra drummondii subsp. drummondii
Dryandra falcata
Dryandra ferruginea subsp. pumila P2
Dryandra foliolata P4
Dryandra formosa
Dryandra hirsuta P3
Dryandra lepidorhiza P1
Dryandra meganotia P3
Dryandra montana R
Dryandra mucronulata
Dryandra mucronulata subsp. mucronulata
Dryandra nervosa
Dryandra nivea
Dryandra nivea subsp. nivea
Dryandra nivea subsp. nivea ms
Dryandra plumosa
Dryandra plumosa subsp. denticulata P2
Dryandra plumosa subsp. plumosa
Dryandra porrecta P4
Dryandra pseudoplumosa P2
Dryandra pteridifolia
Dryandra seneciifolia P3
Dryandra sessilis
Dryandra sessilis sessilis
Dryandra sessilis var. sessilis
Dryandra tenuifolia
Dryandra tenuifolia var. reptans
Dryandra tenuifolia var. tenuifolia
* Ehrharta calycina
* Ehrharta longiflora
Elatine gratioloides
Eleocharis acuta
Elymus scaber
Elythranthera brunonis
Elythranthera emarginata
* Emex australis
Enchylaena tomentosa var. tomentosa
Epilobium billardierianum subsp. intermedium
* Epilobium ciliatum

Eragrostis elongata
Eremaea pauciflora
Eremaea pauciflora var. pauciflora
Eremaea violacea
Eremophila decipiens subsp. decipiens ms
Eremophila denticulata
Eremophila drummondii
Eremophila glabra
Eremophila glabra subsp. albicans
Eremophila lehmanniana
Eremophila oppositifolia subsp. angustifolia ms
Eremophila veneta ms R
Eriachne ovata
Eriochilus dilatatus subsp. dilatatus ms
Eriochilus dilatatus subsp. multiflorus ms
Eriochilus helonomos ms
Eriochilus scaber
Eriochilus scaber subsp. scaber ms
Eriostemon brucei subsp. brucei
Eriostemon nodiflorus subsp. lasiocalyx
Eriostemon tomentellus
* Erodium botrys
Erymophyllum tenellum
Eucalyptus aff. lehmannii
Eucalyptus aff. medialis
Eucalyptus aff. pachyloma
Eucalyptus aff. uncinata
Eucalyptus angulosa
Eucalyptus annulata
Eucalyptus argyphea
Eucalyptus aspratilis
Eucalyptus astringens subsp. astringens
Eucalyptus astringens subsp. oligocorma ms
Eucalyptus buprestium
Eucalyptus buprestium x erectifolia P4
Eucalyptus buprestium x ligulata P4
Eucalyptus buprestium x marginata P4
Eucalyptus buprestium x staeri P4
Eucalyptus burdettiana R
Eucalyptus calycogona var. calycogona
Eucalyptus captiosa
Eucalyptus celastroides subsp. virella
Eucalyptus clivicola
Eucalyptus comitae-vallis
Eucalyptus conglobata
Eucalyptus cornuta
Eucalyptus cylindriflora
Eucalyptus decipiens subsp. chalara
Eucalyptus decurva
Eucalyptus densa
Eucalyptus densa subsp. densa
Eucalyptus doratoxylon
Eucalyptus erectifolia P4
Eucalyptus falcata
Eucalyptus falcata subsp. falcata
Eucalyptus flocktoniae
Eucalyptus gardneri
Eucalyptus glomerifera ms
Eucalyptus goniantha subsp. goniantha R
Eucalyptus goniantha subsp. notactites
Eucalyptus hypochlamydea subsp. hypochlamydea ms
Eucalyptus incrassata
Eucalyptus lehmannii
Eucalyptus leptopoda subsp. leptopoda
Eucalyptus ligulata P4
Eucalyptus longicornis
Eucalyptus loxophleba subsp. lissophloia
Eucalyptus loxophleba subsp. loxophleba
Eucalyptus macrandra
Eucalyptus marginata
Eucalyptus marginata subsp. elegantella P2
Eucalyptus marginata subsp. marginata
Eucalyptus marginata x pachyloma P4
Eucalyptus medialis
Eucalyptus megacarpa
Eucalyptus melanophitra P4
Eucalyptus mesopoda ms
Eucalyptus occidentalis
Eucalyptus oleosa
Eucalyptus oligocorma ms
Eucalyptus pachyloma
Eucalyptus perangusta
Eucalyptus petila ms P2
Eucalyptus phaenophylla
Eucalyptus phaenophylla subsp. interjacens
Eucalyptus phaenophylla subsp. phaenophylla
Eucalyptus phenax
Eucalyptus platypus
Eucalyptus platypus subsp. platypus
Eucalyptus platypus var. platypus
Eucalyptus pleurocarpa
Eucalyptus pluricaulis subsp. pluricaulis
Eucalyptus pluricaulis subsp. porphyrea
Eucalyptus preissiana
Eucalyptus preissiana subsp. preissiana
Eucalyptus preissiana x staeri P4
Eucalyptus recondita ms
Eucalyptus redacta ms
Eucalyptus redacta subsp. redacta ms
Eucalyptus redacta subsp. thamnoides ms
Eucalyptus rudis
Eucalyptus scyphocalyx
Eucalyptus spathulata
Eucalyptus spathulata subsp. spathulata
Eucalyptus sporadica ms
Eucalyptus staeri
Eucalyptus subangusta subsp. pusilla
Eucalyptus suggrandis subsp. alipes
Eucalyptus suggrandis subsp. suggrandis
Eucalyptus talyuberlup
Eucalyptus tenera
Eucalyptus tetraptera
Eucalyptus transcontinentalis
Eucalyptus uncinata
Eucalyptus utilis ms
Eucalyptus vegrandis
Eucalyptus vegrandis ms
Eucalyptus wandoo
Eucalyptus wandoo subsp. wandoo
Eucalyptus x erythrandra P4
Eucalyptus x kalganensis P2
Eucalyptus xanthonema subsp. apposita
Eucalyptus xanthonema subsp. xanthonema
Euchiton sphaericus
* Euphorbia peplus
Euphrasia scabra P2
Eutaxia cuneata
Eutaxia densifolia
Eutaxia microphylla
Eutaxia microphylla var. microphylla
Eutaxia obovata
Eutaxia parvifolia
Eutaxia virgata
Exocarpos aphyllus
Exocarpos sparteus
Frankenia tetrapetala
Franklandia fucifolia
* Fumaria muralis
Gahnia ancistrophylla
Gahnia decomposita

Gahnia lanigera
Gahnia trifida
* Galium murale
* Gamochaeta falcata
Gastrolobium bilobum
Gastrolobium crassifolium
Gastrolobium parviflorum
Gastrolobium parvifolium
Gastrolobium pusillum
Gastrolobium spinosum
Gastrolobium spinosum var. spinosum
Gastrolobium tetragonophyllum
Gastrolobium tomentosum P4
Gastrolobium velutinum
Genoplesium nigricans ms
Geranium retrorsum
Geranium solanderi
Glischrocaryon aureum
Glischrocaryon aureum var. angustifolium
Glischrocaryon flavescens
Glischrocaryon roei
Glycine clandestina
Gnaphalium indutum
Gnephosis drummondii
Gnephosis tenuissima
Gnephosis uniflora
Gompholobium aff. confertum
Gompholobium amplexicaule
Gompholobium aristatum
Gompholobium burtonioides
Gompholobium confertum
Gompholobium knightianum
Gompholobium marginatum
Gompholobium polymorphum
Gompholobium preissii
Gompholobium scabrum
Gompholobium tomentosum
Gompholobium venustum
Gompholobium villosum
Gompholobium viscidulum
Gonocarpus benthamii
Gonocarpus benthamii subsp. Stirling(C.J.Robinson 1080) P2
Gonocarpus nodulosus
Gonocarpus paniculatus
Gonocarpus rudis P2
Goodenia affinis
Goodenia berardiana
Goodenia caerulea
Goodenia concinna
Goodenia incana
Goodenia micrantha
Goodenia micrantha
Goodenia pterigosperma
Goodenia pulchella
Goodenia scapigera
Goodenia tripartita
Goodenia viscida
Goodia medicaginea
Gratiola pubescens
Grevillea acuaria
Grevillea anethifolia
Grevillea apiciloba subsp. apiciloba
Grevillea decipiens
Grevillea dolichopoda
Grevillea fasciculata
Grevillea huegelii
Grevillea maxwellii R
Grevillea muelleri
Grevillea newbeyi P3
Grevillea nudiflora
Grevillea obtusifolia
Grevillea oligantha
Grevillea patentiloba subsp. patentiloba
Grevillea pauciflora
Grevillea pectinata
Grevillea pulchella subsp. ascendens
Grevillea pulchella subsp. ascendens ms
Grevillea pulchella subsp. pulchella ms
Grevillea synapheae
Grevillea trifida
Grevillea tripartita
Grevillea umbellulata subsp. umbellulata
Grevillea uncinulata subsp. uncinulata
* Gynandriris setifolia
Haegiela tatei P2
Haemodorum brevisepalum
Haemodorum discolor
Haemodorum simplex
Haemodorum spicatum
Hakea ambigua
Hakea baxteri
Hakea ceratophylla
Hakea corymbosa
Hakea cucullata
Hakea denticulata
Hakea erecta
Hakea falcata
Hakea ferruginea
Hakea florida
Hakea lasiantha
Hakea laurina
Hakea lehmanniana
Hakea lissocarpha
Hakea marginata
Hakea marginata subsp. marginata
Hakea nitida
Hakea obliqua subsp. parviflora
Hakea oldfieldii P2
Hakea pandanicarpa
Hakea preissii
Hakea prostrata
Hakea rubriflora
Hakea sulcata
Hakea trifurcata
Hakea undulata
Hakea varia
Halosarcia halocnemoides
Halosarcia halocnemoides subsp. halocnemoides
Halosarcia indica subsp. bidens
Halosarcia lepidosperma
Halosarcia pergranulata subsp. pergranulata
Halosarcia syncarpa
Harperia confertospicata ms P3
Harperia lateriflora
Helichrysum leucopsideum
Helichrysum macranthum
Hemiandra pungens
Hemigenia platyphylla P4
Hemigenia podalyrina
Hemigenia sp.Albany(G.J.Keighery 8712)
Hibbertia acerosa
Hibbertia aff. gracilipes
Hibbertia aff. recurvifolia
Hibbertia amplexicaulis
Hibbertia argentea P3
Hibbertia commutata
Hibbertia cunninghamii
Hibbertia enervia
Hibbertia gracilipes
Hibbertia helianthemoides

Hibbertia hypericoides
Hibbertia inconspicua
Hibbertia lineata
Hibbertia microphylla
Hibbertia pulchra
Hibbertia pungens
Hibbertia racemosa
Hibbertia recurvifolia
Hibbertia rupicola
Hibbertia selkii
Hibbertia sp.Price(J.R.Wheeler 2511)
Hibbertia sp.Stirlings(J.R.Wheeler 2453)
Hibbertia subvaginata
* Hibiscus trionum
Homalospermum firmum
* Homeria flaccida
* Hordeum distichon
* Hordeum leporinum
* Hordeum marinum
Hornungia procumbens
Hovea chorizemifolia
Hovea elliptica
Hovea pungens
Hovea trisperma
Hyalochlamys globifera
Hyalosperma glutinosum
Hyalosperma glutinosum subsp. glutinosum
Hybanthus epacroides
Hybanthus floribundus subsp. floribundus
Hydrocotyle alata
Hydrocotyle callicarpa
Hydrocotyle diantha
Hydrocotyle medicaginoides
Hydrocotyle pilifera var. glabrata
Hydrocotyle rugulosa
Hypocalymma angustifolium
Hypocalymma asperum
Hypocalymma cordifolium
Hypocalymma myrtifolium
Hypocalymma phillipsii P3
Hypocalymma speciosum
Hypocalymma strictum
Hypocalymma strictum subsp. elongatum ms
Hypochaeris glabra
Hypolaena exsulca
Hypolaena fastigiata
Hypoxis glabella var. leptantha
Isolepis congrua
Isolepis cyperoides
Isolepis marginata
Isolepis nodosa
Isolepis stellata
Isopogon baxteri
Isopogon buxifolius
Isopogon buxifolius var. obovatus
Isopogon cuneatus
Isopogon formosus subsp. formosus
Isopogon heterophyllus
Isopogon latifolius P3
Isopogon longifolius
Isopogon teretifolius subsp. petrophiloides
Isopogon teretifolius subsp. petrophiloides ms
Isopogon teretifolius subsp. teretifolius ms
Isopogon trilobus
Isotoma hypocrateriformis
Isotoma scapigera
Isotropis cuneifolia
Isotropis drummondii
Isotropis juncea
Jacksonia calycina P4
Jacksonia capitata
Jacksonia condensata
Jacksonia debilis ms P1
Jacksonia grevilleoides
Jacksonia humilis ms
Jacksonia racemosa
Jacksonia spinosa
Johnsonia acaulis
Johnsonia lupulina
Johnsonia teretifolia
* Juncus bufonius
Juncus caespiticius
* Juncus capitatus
Juncus kraussii
Juncus kraussii subsp. australiensis
* Juncus microcephalus
Juncus pallidus
Juncus radula
Juncus subsecundus
Kennedia coccinea
Kennedia eximia
Kennedia prostrata
Kingia australis
Kunzea baxteri
Kunzea micrantha
Kunzea micromera
Kunzea montana
Kunzea preissiana
Kunzea recurva
* Lactuca saligna
Lagenifera huegelii
Lambertia ericifolia
Lambertia fairallii R
Lambertia inermis
Lambertia inermis var. drummondii
Lambertia inermis var. inermis
Lambertia uniflora
* Lamium amplexicaule
Lasiopetalum dielsii P2
Lasiopetalum fitzgibbonii P3
Lasiopetalum indutum
Lasiopetalum microcardium
Lasiopetalum monticola P3
Lasiopetalum rosmarinifolium
* Lathyrus latifolius
Latrobea aff. hirtella
Latrobea hirtella
Latrobea tenella
* Lavatera arborea
Lawrencella rosea
Lawrencia berthae
Lawrencia diffusa
Lawrencia glomerata
Lawrencia squamata
Laxmannia brachyphylla
Laxmannia grandiflora subsp. stirlingensis P3
Laxmannia minor
Laxmannia omnifertilis
Laxmannia paleacea
Laxmannia ramosa subsp. deflexa
Laxmannia ramosa subsp. ramosa
Laxmannia sessiliflora
Laxmannia sessiliflora subsp. australis
Laxmannia squarrosa
Lechenaultia aff. tubiflora
Lechenaultia expansa
Lechenaultia formosa
Lechenaultia tubiflora
* Lepidium africanum
Lepidium aschersonii X

Lepidium pseudotasmanicum P4
Lepidium rotundum
Lepidobolus chaetocephalus
Lepidobolus preissianus
Lepidosperma aff. drummondii
Lepidosperma aff. resinosum
Lepidosperma aff. tenue
Lepidosperma brunonianum
Lepidosperma drummondii
Lepidosperma effusum
Lepidosperma gracile
Lepidosperma leptostachyum
Lepidosperma longitudinale
Lepidosperma persecans
Lepidosperma pubisquameum
Lepidosperma sp.A2 Island Flat(G.J.Keighery 7000)
Lepidosperma squamatum
Lepidosperma striatum
Lepidosperma tuberculatum
Lepidosperma viscidum
Leporella fimbriata
Leptocarpus coangustatus
Leptoceras menziesii
Leptomeria ericoides
Leptomeria lehmannii
Leptomeria pachyclada
Leptomeria pauciflora
Leptomeria preissiana
Leptomeria scrobiculata
Leptomeria squarrulosa
Leptospermum aff. roei
Leptospermum erubescens
Leptospermum oligandrum
Lepyrodia drummondiana
Leucopogon acicularis
Leucopogon aff. conostephioides
Leucopogon aff. hamulosus
Leucopogon aff. lasiostachyus
Leucopogon aff. polymorphus
Leucopogon atherolepis
Leucopogon australis
Leucopogon australis subsp. acutifolius ms
Leucopogon bracteolaris P2
Leucopogon capitellatus
Leucopogon carinatus
Leucopogon concinnus
Leucopogon conostephioides
Leucopogon corifolius
Leucopogon corynocarpus
Leucopogon cucullatus
Leucopogon cymbiformis
Leucopogon denticulatus P2
Leucopogon dielsianus
Leucopogon distans subsp. contractus
Leucopogon distans subsp. contractus ms
Leucopogon distans subsp. contractus ms
Leucopogon durus
Leucopogon elatior
Leucopogon elegans
Leucopogon fimbriatus
Leucopogon flavescens
Leucopogon florulentus P1
Leucopogon gibbosus
Leucopogon glaucifolius P2
Leucopogon gnaphalioides R
Leucopogon lasiophyllus P2
Leucopogon lasiostachyus
Leucopogon leptanthus
Leucopogon minutifolius
Leucopogon mollis
Leucopogon obovatus
Leucopogon opponens
Leucopogon oppositifolius
Leucopogon oxycedrus
Leucopogon pendulus
Leucopogon pogonocalyx P1
Leucopogon polymorphus
Leucopogon propinquus
Leucopogon pubescens
Leucopogon pulchellus
Leucopogon revolutus
Leucopogon rubicundus
Leucopogon sprengelioides
Leucopogon striatus
Leucopogon tamariscinus P2
Leucopogon tamminensis
Leucopogon tenuis
Leucopogon tetragonus
Leucopogon unilateralis
Leucopogon woodsii
Levenhookia dubia
Levenhookia pauciflora
Levenhookia pusilla
* Limonium sinuatum
Limosella australis
Linum marginale
* Linum usitatissimum
Lobelia gibbosa
Lobelia heterophylla
Lobelia rhombifolia
Lobelia tenuior
Logania buxifolia
Logania campanulata
Logania flaviflora
Logania micrantha
Logania serpyllifolia
Logania serpyllifolia subsp. angustifolia
Logania serpyllifolia subsp. serpyllifolia
Logania vaginalis
* Lolium perenne
* Lolium temulentum
Lomandra effusa
Lomandra hastilis
Lomandra micrantha subsp. micrantha
Lomandra nigricans
Lomandra nutans
Lomandra pauciflora
Lomandra preissii
Lomandra rupestris
Lomandra sericea
Lomandra sonderi
Loxocarya striata ms
Luzula meridionalis
Lyginia barbata
Lysinema ciliatum
Lysinema ciliatum forma Esperance(G.Perry 176)
Lysinema ciliatum forma Mt Barren(E.& S.Pignatti 1409)
Lysinema conspicuum
Lysinema fimbriatum
Lysiosepalum involucratum
* Lythrum hyssopifolia
Macrozamia riedlei
Maireana brevifolia
Maireana georgei
Maireana tomentosa subsp. tomentosa
Maireana trichoptera
Mallophora globiflora
Marianthus erubescens
Marsilea drummondii
* Medicago minima

* Medicago scutellata
Meeboldina kraussii ms
Melaleuca ? citrina
Melaleuca acuminata subsp. acuminata ms
Melaleuca adnata
Melaleuca aff. pungens
Melaleuca aff. scabra
Melaleuca apodocephala subsp. apodocephala ms
Melaleuca araucarioides P3
Melaleuca blaeriifolia
Melaleuca bracteosa
Melaleuca bromelioides
Melaleuca calycina
Melaleuca carrii ms
Melaleuca coronicarpa
Melaleuca cucullata
Melaleuca cuticularis
Melaleuca densa
Melaleuca depauperata
Melaleuca diosmifolia P3
Melaleuca elliptica
Melaleuca glaberrima
Melaleuca halmaturorum
Melaleuca hamulosa
Melaleuca haplantha
Melaleuca lateralis
Melaleuca lateriflora subsp. lateriflora ms
Melaleuca laxiflora
Melaleuca micromera P3
Melaleuca microphylla
Melaleuca pauciflora
Melaleuca pauperiflora subsp. pauperiflora
Melaleuca pentagona
Melaleuca pentagona var. subulifolia
Melaleuca platycalyx
Melaleuca polycephala P3
Melaleuca preissiana
Melaleuca pritzelii P2
Melaleuca pungens
Melaleuca rigidifolia
Melaleuca scabra
Melaleuca sclerophylla P3
Melaleuca societatis ms
Melaleuca spathulata
Melaleuca spicigera
Melaleuca striata
Melaleuca strobophylla
Melaleuca suberosa
Melaleuca subfalcata
Melaleuca thymoides
Melaleuca thyoides
Melaleuca torquata
Melaleuca trichophylla
Melaleuca uncinata
Melaleuca undulata
Melaleuca viminea subsp. appressa P2
Melaleuca viminea subsp. viminea
Melaleuca violacea
* Melilotus officinalis
Mesomelaena graciliceps
Mesomelaena stygia
Mesomelaena stygia subsp. stygia
Mesomelaena tetragona
Microcorys glabra
Microcorys lenticularis P2
Microcorys subcanescens
Microcorys virgata P2
Microcybe multiflora subsp. multiflora
Microcybe pauciflora subsp. pauciflora
Microcybe pauciflora subsp. pauciflora ms
Microlepidium pilosulum
Microtis alba
Microtis brownii
Microtis media
Millotia major
Millotia myosotidifolia
Millotia tenuifolia
Millotia tenuifolia var. tenuifolia
Mirbelia dilatata
Mirbelia floribunda
Mirbelia ovata
Mirbelia subcordata
Mirbelia trichocalyx
Mitrasacme ambigua
* Moluccella laevis
* Monadenia bracteata
* Monopsis debilis
Monotaxis grandiflora
Monotoca oligarrhenoides
Monotoca tamariscina
Muiriantha hassellii P2
Myoporum cordifolium R
Myoporum tetrandrum
Myriocephalus occidentalis
Needhamiella pumilio
Nemcia carinata
Nemcia emarginata
Nemcia hookeri
Nemcia leakeana
Nemcia luteifolia P2
Nemcia mondurup ms
Nemcia plicata
Nemcia pulchella
Nemcia punctata
Nemcia pyramidalis
Nemcia retusa
Nemcia rubra
Nemcia sp.crenulata capitate(E.& S.Pignatti P2
Nemcia sp.Ellen Peak(S.Barrett 245) P2
Nemcia vestita P2
Neurachne alopecuroidea
Nuytsia floribunda
Olax benthamiana
Olax phyllanthi
Olax scalariformis P3
Olearia brachyphylla
Olearia ciliata
Olearia homolepis
Olearia imbricata
Olearia muelleri
Olearia muricata
Olearia ramosissima
Oligarrhena micrantha
Onychosepalum laxiflorum
Opercularia hispidula
Opercularia liberiflora
Opercularia spermacocea
Opercularia vaginata
Opercularia volubilis
Ophioglossum lusitanicum
* Ornithopus pinnatus
* Orobanche minor
Orthrosanthus laxus var. laxus
Orthrosanthus muelleri R
Orthrosanthus multiflorus
* Osteospermum clandestinum
* Oxalis corniculata
Oxalis perennans
* Oxalis pes-caprae
Oxylobium microphyllum

Ozothamnus lepidophyllus
* Papaver hybridum
Paracaleana nigrita
* Parapholis incurva
* Parentucellia latifolia
Patersonia occidentalis
Patersonia umbrosa var. umbrosa
Pelargonium havlasae
Pelargonium littorale
Pelargonium littorale subsp. littorale
Pentapeltis silvatica
* Pentaschistis airoides
Pericalymma ellipticum var. ellipticum ms
Pericalymma ellipticum var. floridum ms
Pericalymma spongiocaule ms
Persicaria prostrata
Persoonia longifolia
Persoonia micranthera R
Persoonia striata
Persoonia teretifolia
Petrophile anceps
Petrophile biternata P3
Petrophile brevifolia
Petrophile carduacea
Petrophile divaricata
Petrophile ericifolia subsp. ericifolia ms
Petrophile heterophylla
Petrophile longifolia
Petrophile media
Petrophile phylicoides
Petrophile rigida
Petrophile semifurcata
Petrophile seminuda
Petrophile serruriae
Petrophile squamata
Petrophile squamata subsp. squamata
Petrophile teretifolia
* Phalaris minor
* Phalaris paradoxa
Phebalium filifolium
Phebalium microphyllum
Phebalium rude
Phebalium rude subsp. amblycarpum
Phebalium rude subsp. rude
Phebalium tuberculosum
Philydrella pygmaea
Phlebocarya ciliata
Phyllangium divergens
Phyllangium paradoxum ms
Phyllanthus calycinus
Phyllota barbata
Phymatocarpus maxwellii
Phymatocarpus porphyrocephalus
Pilostyles collina P4
Pilularia novae-hollandiae
Pimelea angustifolia
Pimelea argentea
Pimelea brachyphylla
Pimelea brevifolia subsp. brevifolia
Pimelea cracens subsp. cracens
Pimelea erecta
Pimelea hispida
Pimelea imbricata
Pimelea imbricata var. piligera
Pimelea lehmanniana subsp. lehmanniana
Pimelea longiflora subsp. longiflora
Pimelea suaveolens subsp. suaveolens
Pimelea sulphurea
Pimelea sylvestris
Pimelea tinctoria
* Plantago coronopus subsp. commutata
Plantago debilis
Plantago hispida
Platysace commutata
Platysace compressa
Platysace juncea
Platysace maxwellii
Platysace sp.Stirling(J.M.Fox 88/262) P2
Platytheca galioides
Platytheca juniperina
Pleurosorus rutifolius
* Poa annua
Poa drummondiana
Poa porphyroclados
Poa serpentum
Podolepis canescens
Podolepis capillaris
Podolepis lessonii
Podolepis rugata
Podotheca angustifolia
Pogonolepis muelleriana
Pogonolepis stricta
* Polycarpon tetraphyllum
Pomaderris brevifolia
Poranthera ericoides
Poranthera huegelii
Poranthera microphylla
Potamogeton ? javanicus
Praecoxanthus aphyllus ms
Prasophyllum cucullatum
Prasophyllum cyphochilum
Prasophyllum elatum
Prasophyllum gibbosum
Prasophyllum gracile
Prasophyllum hians
Prasophyllum nigricans
Prasophyllum plumiforme
Prasophyllum triangulare
Prostanthera serpyllifolia subsp. microphylla
Pseudanthus virgatus
* Pseudognaphalium luteo-album
Pteridium esculentum
Pterochaeta paniculata
Pterostylis ciliata
Pterostylis hamiltonii
Pterostylis leptochila
Pterostylis mutica
Pterostylis recurva
Pterostylis sargentii
Pterostylis vittata
Ptilotus drummondii var. drummondii
Ptilotus humilis subsp. humilis
Ptilotus manglesii
Ptilotus polystachyus var. polystachyus
Ptilotus spathulatus
Ptilotus spathulatus forma "unsorted"
Ptilotus spathulatus forma spathulatus
Pultenaea adunca
Pultenaea aff. aspalathoides
Pultenaea aspalathoides
Pultenaea barbata
Pultenaea calycina
Pultenaea conferta
Pultenaea empetrifolia
Pultenaea ericifolia
Pultenaea linearifolia
Pultenaea neurocalyx
Pultenaea ochreata
Pultenaea rotundifolia
Pultenaea strobilifera

Pultenaea verruculosa
Pultenaea verruculosa var brachyphylla
Pultenaea verruculosa var. brachyphylla
Pultenaea verruculosa var. pilosa
Pultenaea vestita
Pyrorchis nigricans
Quinetia urvillei
Ranunculus sessiliflorus var. sessiliflorus
* Raphanus raphanistrum
Regelia inops
Rhagodia drummondii
Rhagodia preissii subsp. preissii
Rhodanthe citrina
Rhodanthe laevis
Rhodanthe manglesii
Rhodanthe polycephala
Rhodanthe pygmaea
Rhodanthe spicata
Rinzia communis
Rinzia fumana
Rinzia longifolia P1
Rinzia morrisonii
* Romulea rosea
* Romulea rosea var. australis
* Romulea rosea var. communis
* Rostraria cristata
Rulingia cuneata
Rulingia grandiflora
Rulingia platycalyx
Rulingia rotundifolia
* Rumex brownii
* Rumex crispus
* Sagina apetala
Salsola kali
Samolus junceus
Samolus repens
Santalum acuminatum
Santalum murrayanum
Sarcocornia quinqueflora
Scaevola argentea
Scaevola hamiltonii
Scaevola lanceolata
Scaevola nitida
Scaevola phlebopetala
Scaevola pulvinaris
Scaevola striata
Scaevola striata var. arenaria
Scaevola striata var. striata
Scaevola thesioides
Scaevola thesioides subsp. filifolia
Schizaea fistulosa
Schoenia cassiniana
Schoenolaena tenuior
Schoenus aff. subflavus
Schoenus armeria
Schoenus brevisetis
Schoenus caespititius
Schoenus curvifolius
Schoenus efoliatus
Schoenus humilis
Schoenus laevigatus
Schoenus nanus
Schoenus obtusifolius
Schoenus pleiostemoneus
Schoenus sesquispiculus
Schoenus sp.Stirling(G.J.Keighery 3427) P2
Schoenus subbarbatus
Schoenus subfascicularis
Schoenus subflavus
Schoenus subflavus subsp. Hispid Culms(K.R.Newbey 8278)
Schoenus submicrostachyus
Sclerolaena diacantha
* Senecio diaschides
Senecio glomeratus
Senecio glossanthus
Senecio hispidulus
Senecio hispidulus var. hispidulus
Senecio lautus
Senecio lautus subsp. dissectifolius
Senecio picridioides
Senecio quadridentatus
Senna artemisioides
Senna artemisioides subsp. filifolia
Siegfriedia darwinioides P3
Siloxerus humifusus
Siloxerus multiflorus
Siloxerus pygmaeus
* Sisymbrium orientale
Solanum capsiciforme
Solanum nummularium
Solanum oldfieldii
Solanum simile
Sollya drummondii P2
Sollya heterophylla
* Sonchus asper subsp. glaucescens
Sonchus hydrophilus
* Sonchus oleraceus
* Sorghum halepense
* Sorghum x almum
* Spergularia rubra
* Spergularia salina
Sphaerolobium alatum
Sphaerolobium drummondii
Sphaerolobium grandiflorum
Sphaerolobium linophyllum
Sphaerolobium macranthum
Sphaerolobium medium
Sphaerolobium nudiflorum
Sphaerolobium parviflorum ms
Sphaerolobium scabriusculum
Sphenotoma dracophylloides
Sphenotoma drummondii R
Sphenotoma gracile
Sphenotoma sp.Stirling Range(P.G.Wilson 4235) P3
Sphenotoma squarrosum
Spiculaea ciliata
* Sporobolus indicus var. capensis
Sporobolus virginicus
Spyridium majoranifolium
Spyridium majoranifolium ms
Spyridium microcephalum
Spyridium montanum P2
Spyridium mucronatum subsp. recurvum P3
Spyridium spadiceum P2
Spyridium villosum P2
Stackhousia scoparia
Stawellia gymnocephala
Stenanthemum emarginatum
Stenanthemum pumilum P3
Stipa hemipogon
Stirlingia anethifolia
Stirlingia latifolia
Stirlingia tenuifolia
Stirlingia teretifolia
Stylidium adnatum
Stylidium amoenum
Stylidium articulatum P2
Stylidium beaugleholei
Stylidium brunonianum
Stylidium brunonianum subsp. minor

Stylidium carnosum
Stylidium corymbosum
Stylidium corymbosum var. corymbosum
Stylidium crassifolium
Stylidium dichotomum
Stylidium fasciculatum
Stylidium guttatum
Stylidium hirsutum
Stylidium imbricatum
Stylidium insensitivum
Stylidium inundatum
Stylidium junceum subsp. brevius
Stylidium keigheryi P2
Stylidium lepidum P3
Stylidium leptophyllum
Stylidium luteum
Stylidium perpusillum
Stylidium petiolare
Stylidium piliferum
Stylidium piliferum subsp. minor
Stylidium pilosum
Stylidium plantagineum P4
Stylidium preissii
Stylidium repens var. diplectroglossum
Stylidium rupestre
Stylidium scandens
Stylidium schoenoides
Stylidium spathulatum subsp. glandulosum
Stylidium spinulosum
Stylidium spinulosum subsp. montanum
Stylidium squamellosum
Stylidium uniflorum
Stylidium verticillatum P3
Stypandra glauca
Styphelia intertexta
Styphelia tenuiflora
Synaphea favosa
Synaphea media
Synaphea petiolaris
Synaphea petiolaris subsp. petiolaris
Synaphea polymorpha
Synaphea preissii P3
Synaphea reticulata
Tegicornia uniflora P4
Templetonia retusa
Templetonia sulcata
Tetraria capillaris
Tetraria octandra
Tetrarrhena laevis
Tetratheca affinis
Tetratheca hirsuta
Tetratheca pubescens
Tetratheca setigera
Tetratheca virgata
Teucrium myriocladum
Thelymitra antennifera
Thelymitra campanulata
Thelymitra canaliculata
Thelymitra cucullata
Thelymitra fuscolutea
Thelymitra macrophylla
Thelymitra nuda
Thelymitra psammophila R
Thelymitra spiralis
Thelymitra villosa
Thomasia angustifolia
Thomasia foliosa
Thomasia grandiflora
Thomasia microphylla
Thomasia pauciflora
Thomasia petalocalyx
Thomasia purpurea
Thomasia rhynchocarpa
Thomasia rugosa
Thomasia sarotes
Thomasia solanacea P3
Thomasia sp.Toolbrunup(G.J.Keighery 9895) P3
Thomasia stelligera
Threlkeldia diffusa
Thryptomene australis
Thryptomene saxicola
Thysanotus anceps P3
Thysanotus brevifolius P2
Thysanotus dichotomus
Thysanotus gageoides P2
Thysanotus glaucifolius
Thysanotus parviflorus P2
Thysanotus patersonii
Thysanotus pauciflorus
Thysanotus pseudojunceus
Thysanotus sparteus
Thysanotus thyrsoideus
Thysanotus triandrus
Trachymene croniniana P2
Trachymene cyanopetala
Trachymene ornata
Trachymene pilosa
Trachymene sp.Walpole(A.S.George 15063)
Tribonanthes australis
Tribonanthes longipetala
Trichocline spathulata
Tricoryne humilis
Tricoryne tenella
Tricostularia compressa
Tricostularia neesii var. elatior
Tricostularia neesii var. neesii
* Trifolium angustifolium var. angustifolium
* Trifolium arvense var. arvense
* Trifolium campestre var. campestre
* Trifolium dubium
* Trifolium hirtum
* Trifolium repens var. repens
* Trifolium subterraneum
* Trifolium tomentosum var. tomentosum
Triglochin centrocarpum
Triglochin lineare
Triglochin minutissimum
Triglochin mucronatum
Tripterococcus brunonis
* Triticum aestivum
Trymalium elachophyllum
Trymalium floribundum subsp. trifidum
Trymalium ledifolium
Trymalium ledifolium var. rosmarinifolium
* Ursinia anthemoides
Utricularia menziesii
Utricularia tenella
Velleia exigua P2
Velleia foliosa P3
Velleia trinervis
* Vellereophyton dealbatum
Verticordia acerosa var. preissii
Verticordia brachypoda
Verticordia brevifolia subsp. brevifolia P1
Verticordia brevifolia subsp. stirlingensis P2
Verticordia carinata
Verticordia carinata R
Verticordia chrysantha
Verticordia chrysanthella
Verticordia coronata P3

Verticordia densiflora var. cespitosa
Verticordia densiflora var. densiflora
Verticordia endlicheriana var. endlicheriana
Verticordia endlicheriana var. major
Verticordia eriocephala
Verticordia fastigiata
Verticordia grandiflora
Verticordia habrantha
Verticordia harveyi
Verticordia harveyi R
Verticordia huegelii var. tridens P1
Verticordia humilis
Verticordia insignis subsp. compta
Verticordia lindleyi subsp. purpurea P4
Verticordia multiflora subsp. multiflora P4
Verticordia pennigera
Verticordia plumosa
Verticordia plumosa var. brachyphylla
Verticordia plumosa var. grandiflora
Verticordia plumosa var. incrassata
Verticordia plumosa var. plumosa
Verticordia roei subsp. roei
Verticordia serrata
Verticordia serrata var. serrata
Verticordia sieberi
Verticordia sieberi var. lomata
Verticordia subulata
* Vicia benghalensis
Villarsia parnassifolia
Viminaria juncea
Vittadinia gracilis
* Vulpia bromoides
* Vulpia myuros
Wahlenbergia gracilenta
Wahlenbergia multicaulis
Wahlenbergia preissii
Waitzia acuminata var. acuminata
Waitzia nitida
Waitzia suaveolens var. flava
Waitzia suaveolens var. suaveolens
Westringia cephalantha
Westringia rigida
Wilsonia humilis
Wurmbea dioica
Xanthorrhoea preissii
Xanthosia collina P3
Xanthosia pusilla
Xanthosia rotundifolia
Xanthosia rotundifolia var. hypoleuca P3
Xanthosia rotundifolia var. rotundifolia
Xanthosia singuliflora
Xyris exilis R

R = declared rare plant species
P = priority plant species
* = exotic plant species