MERREDIN DISTRICT THREATENED FLORA RECOVERY TEAM

ANNUAL REPORT

1994

by

C Welbon and M J Fitzgerald

for

The Merredin District Threatened Flora Recovery Team

Property and copyright of this document is vested jointly in the Director, National Parks & Wildlife Service, Australian Nature Conservation Agency, and the Executive Director, WA Department of Conservation and Land Management

The Commonwealth disclaims responsibility for the views expressed

Department of Conservation and Land Management
PO Box 332, MERREDIN, WA, 6415

SUMMARY

A pilot endangered flora database containing information on species, their populations and their management has been developed. After further restructuring the database should be completed in early 1995.

All Declared Rare Flora (DRF) have been ranked into the management priority classes Critical, Endangered, Vulnerable and Conservation Dependent using CALM's Policy 50, "Setting Priorities for the Conservation of Western Australia's Threatened Flora and Fauna."

An alternative method of ranking Priority taxa was adopted due to the lack of population information. This method is based on how recently the taxa were surveyed and the number of known populations. Taxa are ranked Very High, High, Moderate or Low. The ranking of all taxa were constantly reviewed with the receivership of new information.

Local Government Threatened Flora Information Kits were completed for 16 Shires The kits were distributed to 13 Shires and roadside marking of DRF was completed in eight Shires.

Canvassing of interested individuals and community groups resulted in the recruitment of seven new rare flora volunteers. Rare Flora information and support was distributed to a number of groups in the district.

A total of 118 surveys for DRF and Priority taxa were undertaken mainly in the western third of the district during the flowering season of 1994. Of these, 41 were for new populations, 19 were opportunistic and 58 were resurveys of old populations. Surveys were conducted on a variety of different land tenures. Volunteers participated in approximately 20 CALM-supervised surveys.

As a result of these surveys nine new populations of DRF, a Presumed Extinct taxon and two DRF taxa previously presumed to be extinct in the Merredin District were discovered. These same surveys provided sufficient information to support recommendations to:

> downgrade the conservation status of 4 taxa (1 DRF, 3 Priority taxa) to a lower classification, and
>
> Upgrade the conservation status of 1 taxon (1 Priority taxon).

The number of very highly ranked Priority species has been significantly reduced due to the discovery of 32 new populations.

Further recommendations to change the status of a number of taxa may occur early in 1995 upon receipt of verification of identifications by the Western Australian Herbarium.

INTRODUCTION

In 1993 CALM published a Threatened Flora Management Program for the Merredin District, prepared with the assistance from the Australian Nature Conservation Agency (ANCA).

The program made specific recommendations concerning the immediate management of 33 species of Declared Rare Flora (DRF) and some 90 Priority species as well as a series of general recommendations addressing threatened flora management in the district.

RECOVERY PLAN STATUS AND FUNDING

Financial support for the implementation of the Merredin Threatened Flora Recovery Program was provided from ANCA's Endangered Species Program and CALM.

RECOVERY PLAN ACTIONS - PROGRESS IN 1994

Numbers 1-4 below refer to the Scope Item numbers in the contract between ANCA and CALM.

1. Establishment of Recovery Team

A recovery team was established early in 1994 to oversee the implementation of the recovery plan. The recovery team comprised:

- Mike Fitzgerald, District Manager, CALM Merredin (Chairman)
- Andrew Brown, Botanist, representing CALM's WA Threatened Species and Communities Unit
- Ken Atkins, Senior Botanist, representing CALM's Wildlife Branch
- Councillor Ron York, "Fairfields" Farm, Tammin representing Local Government
- Mary Squire, Mukinbudin representing the Community
- Claire Welbon, Assistant Conservation Officer, CALM Merredin
- Elsa Dexter, representing ANCA

The Recovery Team met twice during the year, in January 1994 and April 1994. The meeting scheduled for July was cancelled due to alternative commitments of the recovery team members.

2. Development of Implementation Plan

The Recovery Team developed an Implementation Plan (schedule of work) - refer to Attachment 1. Throughout the year the Recovery Team reviewed the items of the plan in response to progress made, changes in priorities or new information.

3. Appointment of Assistant Conservation Officer

The joint funding covered the cost of employing an Assistant Conservation Officer (ACO) for a period of two years, to carry out the recommendations of the recovery team.

Claire Welbon B.Sc (Hons) was appointed ACO from a field of 43 candidates and commenced duties in March 1994.

4. Implementation of Actions

Refer to attachment 1. Those actions marked as C have been completed and those marked as P are planned. The numbers below refer to the Implementation Plan numbers.

4.4 Development of Endangered Flora Database

The foundations for the endangered flora database containing information on the species, their populations and their management were completed. However, a number of problems exist with the structure of the database.

The ACO is due to attend a computer course which will cover advanced database design techniques in January 1995.

Following this further updating and restructuring of the database should be completed in March 1995.

4.7 Setting Priorities for the Management of Endangered Species

All taxa currently gazetted as DRF, which are covered by the Program, have been ranked into one of four management priority classes - Critical, Endangered, Vulnerable and Conservation Dependant - using the guidelines contained in CALM's Policy 50, "Setting Priorities for the Conservation of Western Australia's Threatened Flora and Fauna."

This involved scoring the taxa against 12 criteria. They were then classified using the following guidelines:

Classification	Score
Critical	> 60
Endangered	45-59
Vulnerable	21-44
Conservation Dependent	< 20

There are currently 8 Critical, 10 Endangered, 11 Vulnerable and 1 Conservation Dependent DRF on the program. The average ranking of the DRF in 1993 (ie, at the time of the release of the Management Program, stage 1) was 50. In July 1994 (stage 2) the average ranking for the same taxa was 45. In January 1995 (stage 3) the average ranking of the same taxa was 40. Refer to the attached Annual Ranking Report for rankings of all taxa (Attachment 2).

The reduction in the average scores at each stage relates directly to the rediscovery of taxa that had previously been presumed to be extinct and the discovery of a number of new populations for other taxa. In addition, 7 taxa were

downgraded to Priority 4 status (rare but not threatened) and were therefore given a ranking of 0.

The recovery team developed an alternative ranking system for Priority species as Policy 50 was not successful due to the lack of recent population information. This method ranks taxa according to how recently they were surveyed and the number of populations known (Attachment 3).

The ranking of the DRF and Priority species were constantly revised with the receipt of new information, such as the discovery of new taxa and new populations. In the time since the plan was written a number of taxa have been added or removed from the list.

Taxa added to the program were, *Grevillea pythara*, *Hemiandra rutilans*, *Myriophyllum lapidicola* and *Stylidium merrallii*. *Stylidium neglectum* was also added but later removed from the program following the discovery of several large populations. Six DRF had a reduction in conservation status. Ten Priority species had a reduction in conservation status while nine had an increase. Thirteen (3 DRF, 10 Priority) taxa were removed from the program due to changes in the CALM Merredin district boundary.

The current species list and rankings of DRF for January 1995 (stage 3) are contained in the attached Annual Ranking Report (Attachment 2). Also shown in this report are the respective species lists and rankings of DRF for July 1994 (stage 2) and at the time the program was written in 1993 (stage 1). A comparison of these lists and rankings illustrates the many changes indicated above.

The species list and rankings of Priority species for July 1994 (stage 2) are contained in Attachment 4. While the current species list and rankings of Priority species for January 1995 (stage 3) are contained in Attachment 5.

At the present time the program covers 30 species of DRF and 77 Priority species.

Success in reducing the level of threat to a number of species was largely restricted due to difficulties in obtaining confirmation of identifications of DRF and Priority species from the Western Australian Herbarium. This is due to a lack of staff and resources at the Western Australian Herbarium. The matter is currently being addressed. If a satisfactory solution is not reached, the ACO will spend a week at the Herbarium in February 1995 to identify collections made throughout 1994.

4.11 Weed Control

No weed control measures were carried out in 1994 due to unsuitable climatic conditions. Weed control measures for critical DRF have been rescheduled for April/May 1995 subject to favourable conditions.

4.12 Local Government Information Kits

Threatened Flora Information Kits were completed for all 16 Shires in the Merredin district. Each kit contains a map of the shire that illustrates the location of Declared Rare Flora, Priority 1 and Priority 2 populations that occur on lands likely to be affected by shire operations. Also included in the kit is a folder with line drawings of the taxa and a detailed location map for each population.

The Information Kits have been distributed to 13 Shires. Where kits have been distributed Shire staff were provided with information to raise their awareness and enhance the protection of rare flora. All roadside marking of DRF has been completed in the Shires of Dalwallinu, Mount Marshall, Mukinbudin, Westonia, Koorda, Trayning, Nungarin and Kellerberrin.

The outstanding Shire information kits will be distributed together with information sessions for shire staff and roadside marking completed in March 1995.

4.15 Endangered Flora Volunteer Program

Claire Welbon and Mike Fitzgerald continuously canvassed potential volunteers, particularly in areas not already serviced by rare flora volunteers. This resulted in the recruitment of 7 new rare flora volunteers throughout the district.

Mike Fitzgerald gave several motivational and general information talks to nature conservation groups throughout the year. Claire has arranged to give several similar talks to groups prior to the survey season in, August 1995.

In addition to providing general information and support, Claire Welbon provided existing volunteer groups with species lists and drawings of priority taxa and DRF likely to occur in their area. It also became evident that, to be effective, volunteers need good photographs or slides of these taxa.. It is therefore a priority to develop a sound photographic index of all taxa. Although slide photographs of Herbarium specimens have been acquired for most taxa on the program, obtaining photographs of populations growing in the wild is an ongoing process and will continue throughout 1995.

4.17 Surveys

A total of 41 surveys were conducted for new populations of DRF and Priority species during the 1994 flowering season. In addition 19 opportunistic surveys and 58 resurveys of old populations were carried out. Volunteers participated in approximately 20 CALM supervised surveys. Report forms were sent to CALM's Wildlife Branch.

In addition to monitoring Critical taxa throughout the district, surveying was concentrated in the Western third of the district. This was considered to be the most efficient method due to the limitations of time, available staff and volunteers and other resources.

A total of 51 surveys were conducted on reserves (CALM Nature Reserves, Water Reserves and Rail Reserves), 31 on Private Property, 29 on Road Verges and 7 on other land (Shire Reserves, Gravel Reserves and Vacant Crown Land).

Surveying for DRF was considered successful with the rediscovery of two taxa in the district, *Gonocarpus intricatus* and *Stylidium scabridum*. These taxa have not been added to the program as subsequently several large populations were discovered in other districts and both taxa will be recommended for a reduction in conservation status. A third plant of *Pityrodia scabra* was also discovered. A local volunteer group also rediscovered a presumed extinct taxon, *Leucopogon marginatus*. A total of nine new populations of DRF (on the program, ie, excluding the *G. intricatus and S. scabridum* populations) were found. A list of the taxa for which new populations were found is attached (Attachment 6).

Considerable time and effort was spent searching areas of similar habitat for *Hemiandra rutilans*, which is now presumed to be extinct in the district, after the only known plant died earlier in the year. These were unsuccessful. However, there appears to be problems with the taxonomy of this species. What appears to be the type location of *Hemiandra rutilans* was rediscovered in November 1994. Large variations in the morphological characters of the plants occurred making a positive identification impossible and leading to confusion about the taxon in the Merredin district. The WA Herbarium is currently dealing with the matter.

As a result of these surveys one species of DRF, *Acacia merrickae* was recommended for a reduction in conservation status.

Surveying for Priority species was highly successful due to the discovery of 32 new populations (refer to Attachment 6 for a list of taxa). This will result in the recommendation of the removal of 3 taxa , *Grevillea roycei, Acacia phaeocalyx* and *Calothamnus brevifolus* from the priority species list in 1995. In addition the number of highly ranked priority species has been reduced due to the discovery of new populations. This is evident on comparison of the Priority species ranking lists for prior and after the survey season (see Attachments 4 and 5 respectively). Only one species, *Acacia sciophanes* will be recommended for a rise in conservation status.

It is possible that recommendations will be made to change the status of several other taxa with the receipt of verification of their identification by the WA Herbarium early in 1995. Refer to section 4.7 for a discussion of identification problems.

In 1995, in addition to surveying critical taxa throughout the district, surveying will be concentrated in the Northern third of the district. Several intensive survey weekends are scheduled with the various volunteer groups in these areas.

The 1995 works program for the ACO is contained in pages four to six of the attached implementation plan (Attachment 1).

4.18 Seed Collection

Seed and germplasm collections of Critical taxa will be conducted in January-March 1995 and opportunistically where possible.

CONCLUSIONS

Implementation of most components of the Merredin District Threatened Flora Recovery Plan have progressed as scheduled.

A number of problems were encountered with the development of the endangered flora database and in carrying out weed control measures. These matters have been addressed in the revised works program for 1995.

MERREDIN DISTRICT THREATENED FLORA PROGRAM - IMPLEMENTATION PLAN

Item	Strategies and Actions	Action By	J 94	F 94	M 94	A 94	M 94	J 94	J 94	A 94	S 94	O 94	N 94	D 94	J 95	F 95	M 95	A 95	M 95	J 95	J 95	A 95	S 95	O 95	N 95	D 95	J 96
1.	Appoint a Recovery Team to oversee the implementation of the Program.	CALM District Manager	C																								
2.	Hold Recovery team meeting to review the Program and develop an Implementation Plan.	CALM District Manager and Recovery Team	C																								
3.	Appoint an Assistant Conservation Officer to assist with the implementation of the Program.	CALM District Manager	C	C	C																						
4.	Develop an endangered flora database able to provide related information on taxa, populations and management recommendations and actions.	CALM District Manager, CALM Reserves Officer and Assistant Conservation Officer			C	C	C	C	C	C																	
5.	Provide initial report to ANCA.	CALM District Manager			C																						
6.	Induct and provide initial training to the Assistant Conservation Officer	CALM District Manager			C																						
7.	Set priorities for management using CALM (Draft) Policy 50. Priorities will be used to guide implementation of surveys, fencing and seed collection activities	Assistant Conservation Officer.				C																					
8.	Recovery Team meeting.	CALM District Manager				C																					

ATTACHMENT 1.

MERREDIN DISTRICT THREATENED FLORA PROGRAM - IMPLEMENTATION PLAN

Item	Strategies and Actions	Action By	J 94	F 94	M 94	A 94	M 94	J 94	J 94	A 94	S 94	O 94	N 94	D 94	J 95	F 95	M 95	A 95	M 95	J 95	J 95	A 95	S 95	O 95	N 95	D 95	J 96
9.	Prepare and foward April Progress Report to ANCA.	Assistant Conservation Officer with advice and guidance from CALM District Manager.				C																					
11.	Conduct weed control operations, for Critical taxa, where this action is recommended in the Program.	Reserves Officer, under Assistant Conservation Officer's direction.					P																				
12.	Operations with Local Government:																										
	a) Prepare information kits, for 8 highest priority Local Government Authority in the District, showing the locations of all endangered flora populations at risk of their roading and other operations	Assistant Conservation Officer					C									-										
	b) Distribute the information kits to the LGA's providing staff and employees with with additional information on what we hope to achieve through the Program.	Assistant Conservation Officer						C	C	C																	
	c) In conjunction with the staff of the Local Government Authorities undertake a roadside marking program to identify sensitive site to plant operators.	Assistant Conservation Officer						C	C	C																	
13.	Recovery Team meeting	CALM District Manager						C																			

MERREDIN DISTRICT THREATENED FLORA PROGRAM - IMPLEMENTATION PLAN

Item	Strategies and Actions	Action By	J 94	F 94	M 94	A 94	M 94	J 94	J 94	A 94	S 94	O 94	N 94	D 94	J 95	F 95	M 95	A 95	M 95	J 95	J 95	A 95	S 95	O 95	N 95	D 95	J 96
14.	Prepare and foward July Progress Report to ANCA.	Assistant Conservation Officer							C																		
15.	Endangered Flora Volunteer Program:																										
	a) Identify potential volunteers in those areas of the District not currently serviced by EFV's and undertake recruitment drive.	Assistant Conservation Officer and CALM Reserves Officer							C	C																	
	b) Visit each of the two existing EFV groups, provide motivational talks and enlist assistance with the forthcoming survey programs.	Assistant Conservation Officer and CALM Reserves Officer								C																	
16.	Review rankings of species undertaken in April. Refer item 5. above. Redefine survey and seed collection priorities.	Assistant Conservation Officer								C																	
17.	Surveys for new populations and monitor other population for those taxa identified as Critical using Policy 50 Guidelines.	Assistant Conservation Officer, CALM District Manager and CALM Reserves Officer									C	C	C	C	P												
18.	Undertake seed and germplasm gathering operations for those taxa identified as Critical using Policy 50 Guidelines.	Assistant Conservation Officer, CALM District Manager and CALM Reserves Officer									C	C	C	C	P												
19.	Review species rankings using Policy 50.	Assistant Conservation Officer												C													

MERREDIN DISTRICT THREATENED FLORA PROGRAM - IMPLEMENTATION PLAN

Item	Strategies and Actions	Action By	J 94	F 94	M 94	A 94	M 94	J 94	J 94	A 94	S 94	O 94	N 94	D 94	J 95	F 95	M 95	A 95	M 95	J 95	J 95	A 95	S 95	O 95	N 95	D 95	J 96
20.	Recovery Team meeting	CALM District Manager													C												
21.	Prepare and submit Final Progress Report for 1994 to ANCA.	Assistant Conservation Officer													C												
22.	Complete the endangered flora database which provides related information on taxa populations and management recomendations and actions.	CALM District Manager and Assistant Conservation Officer.													P	P	P										
23.	Operations with Local Government (Part 2):																										
	a) Prepare information kits, for outstanding Local Government Authorities, showing the locations of all endangered flora populations at risk of their roading and other operations	Assistant Conservation Officer														P											
	b) Distribute the information kits to the LGA's providing staff and employees with with additional information on what we hope to achieve through the Program.	Assistant Conservation Officer															P	P									
	c) In conjunction with the staff of the Local Government Authorities undertake a roadside marking program to identify sensitive site to plant operators.	Assistant Conservation Officer																P									

MERREDIN DISTRICT THREATENED FLORA PROGRAM - IMPLEMENTATION PLAN

Item	Strategies and Actions	Action By	J 94	F 94	M 94	A 94	M 94	J 94	J 94	A 94	S 94	O 94	N 94	D 94	J 95	F 95	M 95	A 95	M 95	J 95	J 95	A 95	S 95	O 95	N 95	D 95	J 96
23.	Operations with Local Government (Part 2):																										
	d) Monitor the attitudes of the Local Governemnt Authorities provided with training and information kits the previous year and prepare a report on the outcome of the exercise.	Assistant Conservation Officer																P									
24.	Review species rankings using Policy 50.	Assistant Conservation Officer																P									
25.	Conduct weed control operations, for Critical taxa, where this action is recommended in the Program.	Reserves Officer, under Assistant Conservation Officers direction.																P	P								
26.	Endangered Flora Fencing Project:																										
	a) Identify fencing priorities using Policy 50.	Assistant Conservation Officer																	P								
	b) Determine fencing requirements for populations identified as fencing priorities.	Assistant Conservation Officer																	P								
	c) Undertake negotiations with land owners to minimise costs, obtain supply of fencing materials and undertake fencing work.	Assistant Conservation Officer and CALM District Manager																		P	P						

MERREDIN DISTRICT THREATENED FLORA PROGRAM - IMPLEMENTATION PLAN

Item	Strategies and Actions	Action By	J 94	F 94	M 94	A 94	M 94	J 94	J 94	A 94	S 94	O 94	N 94	D 94	J 95	F 95	M 95	A 95	M 95	J 95	J 95	A 95	S 95	O 95	N 95	D 95	J 96
27.	Review species rankings using Policy 50.	Assistant Conservation Officer																		P							
28.	Recovery Team meeting.	CALM District Manager																		P							
29.	Prepare and submit August Progress report to ANCA.	Assistant Conservation Officer																			P	P					
30.	Prepare Interim Guidelines for Species Recovery for the three most Critical taxa not already covered by such plans.	Assistant Conservation Officer																			P	P	P				
31.	Undertake surveys for those taxa classed as Critical, Endangered or Vulnerable.	Assistant Conservation Officer, CALM District Manager and CALM Reserves Officer																				P	P	P	P	P	
32.	Gather seeds and germplasm material from those species classed as Critical or Endangered.	Assistant Conservation Officer, CALM District Manager and CALM Reserves Officer																				P	P	P	P	P	
33.	Review species rankings using Policy 50.	Assistant Conservation Officer																								P	
34.	Recovery Team meeting	CALM District Manager																								P	
35.	Final Report to ANCA	Assistant Conservation Officer																									P

Annual Ranking Report

13-Jan-95

Species Name:	Stage 1	Stage 2	Stage 3	Comments
Acacia denticulosa	26	26	26	
Acacia lobulata	35	35	35	
Acacia merrickiae	17	17	17	Currently recommended for downgrading to Priority 4 status.
Allocasuarina fibrosa	44	44	44	
Banksia sphaerocarpa var dolichostyla	32	32	32	
Boronia adamsiana	32	32	32	
Caladenia cristata	47	22	0	Downgraded to Priority 4 status.
Daviesia euphorbioides	58	58	58	
Daviesia oxylobium ms	27	27	0	Downgraded to Priority 4 status.
Drakonorchis drakeoides ms	48	48	48	
Eremophila caerulea ssp merrallii ms	55	55	55	
Eremophila inflata	50	50	50	
Eremophila resinosa	48	48	48	
Eremophila virens	40	40	40	

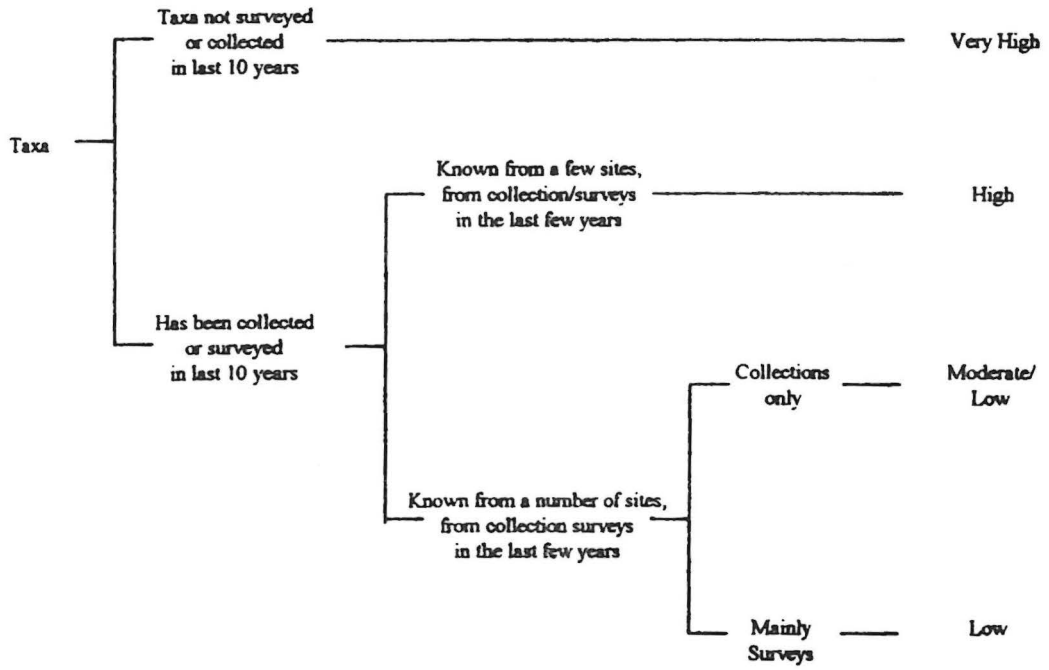
ATTACHMENT 2.

Species Name:	Stage 1	Stage 2	Stage 3	Comments
Eremophila viscida	58	58	58	
Eucalyptus brevipes	44	44	44	
Eucalyptus crucis ssp crucis	31	31	31	
Eucalyptus synandra	45	45	45	
Gastrolobium callistachys	14	14	0	Downgraded to Priority 4 status.
Grevillea christineae	60	60	60	Upgraded from Priority 1 to DRF status.
Grevillea dryandroides	22	22	22	
Grevillea prostrata	48	28	0	Downgraded to Priority 4 status.
Grevillea pythara	100	86	86	Added to the program after being rediscovered.
Hakea aculeata	62	62	62	
Hemiandra rutilans	100	100	100	Added to the program after being discovered and is now Presumed Extinct. Currently there are problems with the taxonomy of this taxon.
Hemigenia viscida	53	53	53	
Myriophyllum lapidicola	62	62	62	Upgraded from Priority 1 to DRF status.
Myriophyllum petraeum	31	31	31	
Pityrodia scabra	95	95	95	
Prostanthera magnifica	12	12	0	Downgraded to Priority 4 status.

Species Name:	Stage 1	Stage 2	Stage 3	Comments
Rhagodia acicularis	47	47	47	
Roycea pycnophylloides	50	50	54	
Sowerbaea multicaulis	57	26	0	Downgraded to Priority 4 status.
Stylidium merrallii	100	37	37	Previously Presumed Extinct and upon rediscovery was added to the program.
Stylidium neglectum	100	41	0	Previously Presumed Extinct and upon rediscovery was added to the program. The taxa has since been downgraded to Priority 4 status with the discovery of new populations.
Tetratheca deltoidea	72	72	72	Upgraded from Priority 2 to DRF status
Verticordia hughanii	45	45	45	
Average Score	50	45	40	

ATTACHMENT 3

METHOD FOR RANKING PRIORITY SPECIES



ATTACHMENT 4.

PRIORITY SPECIES RANKINGS FOR JANUARY 1995 (Stage 3)

PRIORITY 1.

VERY HIGH

Acacia cochlocarpa ssp velutinosa
Acacia desertorum var nudipes ms
Dampiera scaevolina
Eremophila adenotricha
Frankenia bracteata
Frankenia glomerata
Goodenia pusilliflora
Grevillea lissopleura
Grevillea marriottii
Scholtzia eatoniana

HIGH

Acacia caesariata
Acacia inceana ssp conformis ms
Acacia subflexuosa ssp capillata ms
Cyphanthera odgersii
X Drakodenia ornata ms x +
Drummondita wilsonii
Halgania tomentosa
Leucopogon teretostylus ms
Philotheca basistyla
Philotheca langei
Scaevola tortuosa
Verticordia multiflora ssp solax
Verticordia roei ssp meiogona

MODERATE

Phebalium brachycalyx
Phebalium drummondii

LOW

Hemigena obovata

PRIORITY 3.

VERY HIGH

Malaleuca sclerophylla
Rinzia crassifolia

HIGH

Acacia cylindrica ms
Acacia filifolia
Calytrix plumulosa
Dryandra horrida
Grevillea asparagoides
Grevillea eriobotrya
Prostanthera nanophylla
Verticordia gracilis
Verticordia mitodes
Verticordia stenopetala

MODERATE

Persoonia pungens

LOW

Acacia phaeocalyx
Calothamnus brevifolius
Dryandra speciosa

ATTACHMENT 5

PRIORITY SPECIES RANKINGS FOR JULY 1994 (Stage 2)

PRIORITY 1

VERY HIGH

Acacia caesariata
Acacia cochlocarpa subsp. velutinosa
Acacia desertorum var nudipes ms
Acacia inceana subsp capillata ms
Dampiera scaevolina
Eremophila adenotricha
Frankenia bracteata
Frankenia glomerata
Goodenia pusilliflora
Grevillea lissopleura
Grevillea marriottii
Scholtzia eatonia

HIGH

Cyphanthera odgersii
X Drakodenia ornata ms x +
Drummondita wilsonii
Halgania tomentosa
Leucopogon teretostylus ms
Phebalium brachycalyx
Phebalium drummondii
Philotheca basistyla
Philotheca langei
Scaevola tortuosa
Verticordia multiflora subsp. solax
Verticordia roei subsp meiogona

LOW

Hemigenia obovata

PRIORITY 3

VERY HIGH

Malaleuca sclerophylla
Rinzia crassifolia

HIGH

Acacia cylindrica ms
Acacia filifolia
Acacia phaeocalyx
Calothamnus brevifolius
Calytrix plumulosa
Dryandra horrida
Dryandra speciosa
Grevillea asparagoides
Grevillea eriobotrya
Persoonia pungens
Prostanthera nanophylla
Verticordia gracilis
Verticordia mitodes
Verticordia stenopetala

ATTACHMENT 6

TAXA FOR WHICH NEW POPULATIONS WERE DISCOVERED IN 1994.

PRESUMED EXTINCT

Leucopogon marginatus

DRF

Acacia denticulosa
Acacia merrickiae
Boronia adamsiana
Eremophila viscida
Eucalyptus synandra
Rhagodia acicularis
Stylidium merrallii
Verticordia hughanii

PRIORITY SPECIES

Acacia caesariata
Acacia campylophylla
Acacia inceana subsp. conformis ms
Acacia phaeocalyx
Acacia sciophanes
Acacia sclerophylla var pilosa ms
Acacia subflexuosa subsp. capillata
Calothamnus brevifolius
Dryandra shanklandiorum
Dryandra speciosa
Gastralobium callistachys
Grevillea lullfitzia
Grevillea nana subsp. abbreviata
Grevillea roycei
Halgania tomentosa
Leucopogan amplectans
Persoonia chapmaniana ms
Persoonia pungens
Scaevola tortuosa
Verticordia gracilis
Verticordia mitodes
Verticordia multiflora subsp. solox