

Swan Region Strategy

for

Natural Resource Management

Appendix 13

**Biodiversity (BT)/Coastal and Marine (CM)
Terrestrial and Coastal Declared Rare Flora and
Threatened Flora in Swan NRM Region
as at 29 May 2003**

**Biodiversity (BT)/Coastal and Marine (CM)
Terrestrial and Coastal Declared Rare Flora and Threatened Flora in Swan NRM Region
– as at 29 May 2003**

See 'Definitions, Background and Notes' pertaining to this appendix on pages 7-9 below

Species Name	1. Conservation Code As used by the Department of Conservation and Land Management	2. IUCN Code	3. Status under Australian Government Environment Protection and Biodiversity Conservation Act
<i>Calytrix breviseta subsp. breviseta</i>	R	CR	Endangered
<i>Epiblema grandiflorum</i> var. <i>cyaneum</i>	R	CR	Endangered
<i>Grevillea althoferorum</i>	R	CR	Endangered
<i>Grevillea curviloba subsp. curviloba</i>	R	CR	Endangered
<i>Grevillea curviloba subsp. incurva</i>	R	CR	Endangered
<i>Caladenia huegelii</i>	R	EN	Endangered
<i>Centrolepis caespitosa</i>	R	EN	Endangered
<i>Darwinia acerosa</i>	R	EN	Endangered
<i>Darwinia apiculata</i>	R	EN	Endangered
<i>Darwinia</i> sp. <i>Muchea</i> (B.J. Keighery 2458)	R	EN	Not specified
<i>Diuris purdiei</i>	R	EN	Endangered
<i>Drakaea elastica</i>	R	EN	Endangered
<i>Drakaea micrantha</i>	R	EN	Vulnerable
<i>Lepidosperma rostratum</i>	R	EN	Endangered
<i>Macarthuria keigheryi</i>	R	EN	Endangered
<i>Spirogardnera rubescens</i>	R	EN	Endangered
<i>Thelymitra stellata</i>	R	EN	Endangered
<i>Verticordia plumosa</i> var. <i>pleiobotrya</i>	R	EN	Endangered
<i>Acacia anomala</i>	R	VU	Vulnerable
<i>Acacia aphylla</i>	R	VU	Vulnerable
<i>Andersonia gracilis</i>	R	VU	Endangered
<i>Anthocercis gracilis</i>	R	VU	Vulnerable
<i>Asterolasia nivea</i>	R	VU	Vulnerable
<i>Chamelaucium</i> sp. <i>Gingin</i> (N. Marchant s.n. 4/11/88)	R	VU	Endangered
<i>Conospermum undulatum</i>	R	VU	Vulnerable
<i>Diuris drummondii</i>	R	VU	Vulnerable
<i>Diuris micrantha</i>	R	VU	Vulnerable
<i>Dryandra mimica</i>	R	VU	Endangered
<i>Eleocharis keigheryi</i>	R	VU	Vulnerable
<i>Eucalyptus argutifolia</i>	R	VU	Vulnerable
<i>Grevillea flexuosa</i>	R	VU	Vulnerable
<i>Hydatella dioica</i>	R	VU	Endangered
<i>Thelymitra manginii</i>	R	CR	Endangered
<i>Chorizema varium</i>	R	E	Endangered
<i>Conospermum densiflorum</i> subsp. <i>unicephalum</i>	R	E	Endangered
<i>Dryandra aurantia</i>	R	VU	Endangered
<i>Ptychosema pusillum</i>	R	VU	Vulnerable
<i>Lasiopetalum pterocarpum</i> (E.M. Benn & K. Shepherd)	R	CR	Endangered
<i>Lechenaultia pulvinarius</i>	R	VU	Endangered
<i>Acacia brachypoda</i>	R	VU	Endangered
<i>Verticordia fimbrialepis</i> subsp. <i>fimbrialepis</i>	R	CR	Endangered

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<i>Caladenia dorrienii</i>	R	E	Endangered
<i>Rhizanthella gardneri</i>	R	CR	Endangered
<i>Acacia lasiocarpa</i> var. <i>bracteolata</i> long peduncle variant(G.J.Keighery 5026)	1		
<i>Andersonia saxatilis</i>	1		
<i>Carex tereticaulis</i>	1		
<i>Eucalyptus x mundijongensis</i>	1		
<i>Grevillea corrugata</i>	1		
<i>Grevillea manglesii</i> subsp. <i>dissectifolia</i>	1		
<i>Hibbertia glomerata</i> subsp. <i>ginginensis</i>	1		
<i>Hypocalymma sylvestre</i>	1		
<i>Lasiopetalum exiguum</i>	1		
<i>Nemcia sparsa</i>	1		
<i>Schoenus pennisetis</i>	1		
<i>Synaphea panhesya</i>	1		
<i>Thelymitra</i> sp. Crystal Brook Star Orchid(F.Humphreys 27/10/1963)	1		
<i>Tripterococcus paniculatus</i>	1		
<i>Acacia benthamii</i>	2		
<i>Acacia browniana</i> var. <i>glaucescens</i>	2		
<i>Acacia oncinophylla</i> subsp. <i>patulifolia</i>	2		
<i>Bossiaea modesta</i>	2		
<i>Comesperma rhadinocarpum</i>	2		
<i>Diplolaena andrewsii</i>	2		
<i>Eucalyptus marginata</i> subsp. <i>elegantella</i>	2		
<i>Goodenia arthrotricha</i>	2		
<i>Grevillea candolleana</i>	2		
<i>Haloragis aculeolata</i>	2		
<i>Isotropis cuneifolia</i> subsp. <i>glabra</i>	2		
<i>Millotia tenuifolia</i> var. <i>laevis</i>	2		
<i>Pithocarpa corymbulosa</i>	2		
<i>Schoenus capillifolius</i>	2		
<i>Stylidium rigidifolium</i>	2		
<i>Stylidium semaphorum</i>	2		
<i>Stylidium</i> sp. Boulder Rock(A.H. Burbidge 2536)	2		
<i>Trymalium urceolare</i>	2		
<i>Verticordia citrella</i>	2		
<i>Verticordia serrata</i> var. <i>Udumung</i> (D. Hunter & B. Yarran 941006)	2		
<i>Acacia anarthros</i>	3		
<i>Acacia drummondii</i> subsp. <i>affinis</i>	3		
<i>Acacia horridula</i>	3		
<i>Acacia oncinophylla</i> subsp. <i>oncinophylla</i>	3		
<i>Adenanthos cygnorum</i> subsp. <i>chamaephyton</i>	3		
<i>Angianthus micropodioides</i>	3		
<i>Aotus cordifolia</i>	3		
<i>Asteridea gracilis</i>	3		
<i>Baekkea tenuifolia</i>	3		
<i>Banksia micrantha</i>	3		

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<i>Beyeria cygnorum</i>	3		
<i>Conostylis pauciflora subsp. euryrhipis</i>	3		
<i>Cyathochaeta teretifolia</i>	3		
<i>Eryngium subdecumbens</i>	3		
<i>Grevillea florida</i>	3		
<i>Haemodorum loratum</i>	3		
<i>Halgania corymbosa</i>	3		
<i>Haloragis tenuifolia</i>	3		
<i>Hibbertia spicata subsp. leptotheca</i>	3		
<i>Isopogon drummondii</i>	3		
<i>Johnsonia inconspicua</i>	3		
<i>Lambertia multiflora var. darlingensis</i>	3		
<i>Lasiopetalum membranaceum</i>	3		
<i>Leucopogon glaucifolius</i>	3		
<i>Monotoca leucantha</i>	3		
<i>Myriocephalus appendiculatus</i>	3		
<i>Myriophyllum echinatum</i>	3		
<i>Nemcia acuta</i>	3		
<i>Nemcia axillaris</i>	3		
<i>Olax scalariformis</i>	3		
<i>Persoonia sulcata</i>	3		
<i>Petrophile plumosa</i>	3		
<i>Platysace ramosissima</i>	3		
<i>Rhodanthe pyrethrum</i>	3		
<i>Sarcozona bicarinata</i>	3		
<i>Schoenus benthamii</i>	3		
<i>Stenanthemum coronatum</i>	3		
<i>Stylidium cymiferum</i>	3		
<i>Stylidium longitubum</i>	3		
<i>Tetratheca pilifera</i>	3		
<i>Tetratheca</i> sp. Granite(S. Patrick SP1224)	3		
<i>Thysanotus anceps</i>	3		
<i>Verticordia serrata var. linearis</i>	3		
<i>Anigozanthos humilis</i> subsp. <i>chrysanthus</i>	4	Vulnerable	
<i>Anthotium junciforme</i>	4		
<i>Aponogeton hexatepalus</i>	4		
<i>Astroloma foliosum</i>	4		
<i>Astroloma</i> sp. Cataby(E.A. Griffin 1022)	4		
<i>Baেকেa</i> sp. Chittering(R.J. Cranfield 1983)	4		
<i>Boronia tenuis</i>	4		
<i>Caladenia speciosa</i>	4		
<i>Calothamnus rupestris</i>	4		
<i>Calytrix sylvana</i>	4		
<i>Chordifex chaunocoleus</i>	4		
<i>Darwinia pimelioides</i>	4		
<i>Dodonaea hackettiana</i>	4		

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<i>Drosera occidentalis</i> subsp. <i>occidentalis</i>	4		
<i>Dryandra polycephala</i>	4		
<i>Grevillea drummondii</i>	4		
<i>Grevillea pimeleoides</i>	4		
<i>Grevillea thelemanniana</i>	4		
<i>Hydrocotyle lemnooides</i>	4		
<i>Jacksonia sericea</i>	4		
<i>Pimelea rara</i>	4	Vulnerable	
<i>Schoenus natans</i>	4		
<i>Senecio leucoglossus</i>	4		
<i>Stachystemon axillaris</i>	4		
<i>Synaphea grandis</i>	4		
<i>Templetonia drummondii</i>	4		
<i>Thysanotus glaucus</i>	4		
<i>Verticordia lindleyi</i> subsp. <i>lindleyi</i>	4		
<i>Verticordia paludosa</i>	4		
<i>Villarsia submersa</i>	4		

Definitions, Background and Notes

Conservation Code- as per 1. above

Declared Rare Flora, under the Western Australian Wildlife Conservation Act (1950)

Extant Taxa-

R: Taxa which have been adequately searched for and are deemed to be in the wild either rare, in danger of extinction, or otherwise in need of special protection, and have been gazetted as such.

Presumed Extinct Taxa

X: Taxa which have not been collected, or otherwise verified, over the past 50 years despite thorough searching, or of which all known wild populations have been destroyed more recently, and have been gazetted as such.

Priority Flora

Background

The Department of Conservation and Land Management (CALM) maintains a Priority Flora List for Western Australia, this includes fauna taxa, listed according to priority codes. It is important to recognise that such Priority Lists have no statutory standing, but are used to assist CALM when considering which flora are most in need of more surveys or other investigations, in order to establish their status in the wild.

The Priority Flora List for Western Australia includes taxa organised by priority codes that:

Priority One - Poorly known Taxa

Taxa which are known from one or a few (generally <5) populations which are under threat, either due to small population size, or being on lands under immediate threat, e.g. road verges, urban areas, farmland, active mineral leases, etc., or the plants are under threat, e.g. from disease, grazing by feral animals, etc. May include taxa with threatened populations on protected lands. Such taxa are under consideration for declaration as 'rare flora', but are in urgent need of further survey.

Priority Two - Poorly Known Taxa

Taxa which are known from one or a few (generally <5) populations, at least some of which are not believed to be under immediate threat (i.e. not currently endangered). Such taxa are under consideration for declaration as 'rare flora', but are in urgent need of further survey.

Priority Three - Poorly Known Taxa

Taxa which are known from several populations, and the taxa are not believed to be under immediate threat (i.e. not currently endangered), either due to the number of known populations (generally >5), or known populations being large, and either widespread or protected. Such taxa are under consideration for declaration as 'rare flora' but are in need of further survey.

Priority Four - Rare Taxa

Taxa which are considered to have been adequately surveyed and which, whilst being rare (in Australia), are not currently threatened by any identifiable factors. These taxa require monitoring every 5-10 years.

IUCN Code – as per 2. above

These codes are those shown in the World Conservation Union (IUCN) Red List Categories and where they apply- for the listing of threatened flora is determined by the Western Australian Threatened Species Scientific Committee (WATSSC). WATSSC will review the list of threatened flora at least annually, and makes recommendations for changes to the list to the Minister.

Definitions of IUCN Codes:

- PD- Presumed totally destroyed
- CR- Critically endangered
- EN- Endangered
- VU- Vulnerable
- CD- Conservation dependent

**Status of Threatened Fauna species as per 3. above-
Australian Government Environment Protection and Biodiversity Conservation (EPBC) Act 1999**

Flora species may be declared protected, by the Australian Government, under the powers of this Act; where required – these powers may override relevant State legislation.

Threatened flora may be listed, under the following categories, as defined in Section 179 of the EPBC Act (and as per Column 3 in the above table):

- Extinct;
- * Extinct in the wild;
- * Critically endangered
- * Endangered
- * Vulnerable; and
- Conservation dependent.

Note- only species in those categories marked * (with an asterix) are matters of national environmental significance under the Act.

Species classified as 'migratory' under the EPBC Act are also shown.

Notes on data collection for the Western Australian rare and threatened flora lists:

1. Flora points off the immediate coast of each NRM region have been included in the species list.
2. Except for the column above 'Status under federal Environment Protection and Biodiversity Conservation Act (1999)' (published by Department of Environment Heritage, 30 June 2003) the information above (including Common ID and Conservation Code) is provided by the Department of Conservation and Land Management in July 2003.