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# ARE OUR ORCHIDS SAFE DOWN UNDER? A NATIONAL ASSESSMENT OF THREATENED ORCHIDS IN AUSTRALIA

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## Introduction

Australia has about 1700 species of orchids, comprising about 1300 named species in about 190 genera, plus at least 400 undescribed species (Jones 2006, pers. comm.). About 1400 species (82%) are geophytes, almost all deciduous, seasonal species, while 300 species (18%) are evergreen epiphytes and/or lithophytes. At least 95% of this orchid flora is endemic to Australia. While the tropical and subtropical epiphytic/lithophytic orchid flora is low by world standards, the temperate terrestrial orchid flora is amongst the richest and most diverse of any comparable region in the world.

Like many places on our planet, biodiversity and natural habitats in Australia have suffered substantial declines and range in abundance through agricultural, industrial and urban development. The Australian Government Environment Protection and Biodiversity Conservation Act 1999 (EPBC Act) currently lists 106 species of flora and fauna as extinct, and a further 1582 species as threatened, in Australia.

Many orchid species are included in this list. This paper examines the listing process for threatened orchids in Australia, compares regional and national lists of threatened orchids, and provides recommendations for improving the process of listing regionally and nationally threatened orchids.

## Methods

The national government of Australia and each of the six Australian state and two territory governments have processes for listing threatened species under biodiversity conservation legislation within each jurisdiction (Table 1). To establish the number of threatened orchids included in these lists, the schedules of each Act were checked and listed orchids identified (Appendix 1). The State of Victoria also maintains a published 'advisory' (non-legislative) list of rare or threatened flora. This list was also checked for numbers of threatened orchids and compared against the state legislative list. Comprehensive reviews of the conservation status of orchids at the

TABLE 1. National and state/territory legislation listing extinct, rare or threatened orchids in Australia.

Jurisdiction	Legislation
Australia	Environment Protection & Biodiversity Conservation Act 1998
Australian Capital Territory	Nature Conservation Act 1980
New South Wales	Threatened Species Conservation Act 1995
Northern Territory	Parks & Wildlife Conservation Act 2000
Queensland	Nature Conservation Act 1992
South Australia	National Parks & Wildlife Act 1972
Tasmania	Threatened Species Protection Act 1995
Victoria	Flora & Fauna Guarantee Act 1988
Western Australia	Wildlife Conservation Act 1950

state level, for South Australia (Bates 2006), and Victoria (Backhouse & Cameron 2005, DSE 2005), were checked and compared to official legislative lists for those states.

Scientific names were generally left as they were on the lists, despite many names no longer being valid due to changes in taxonomy. For instance, all Australian species of *Bulbophyllum* Thouars and all but one Australian *Dendrobium* Sw. species have been assigned to new genera (Jones 2006). However, in a few cases, species were listed under different names on different lists eg. the current name *Corunatylys tecta* (D.L. Jones) D.L. Jones & M.A. Clem. is listed under the EPBC Act, while the former name *Genoplesium tectum* D.L. Jones is still listed under the Queensland *Nature Conservation Act* 1992. In these cases, the currently accepted scientific name has been used.

**Definitions** – Any examination of different systems for describing the conservation status of threatened species immediately runs into the issue of varying classification systems and definitions. The nine state/territory and national legislative systems collectively use eight terms to describe conservation status (Table 2). In this paper, the following definitions are used:

- **Threatened** includes ‘critically endangered’, ‘endangered’ and ‘vulnerable’ species (*sensu* IUCN 2001). Note that ‘rare’ is not generally included in the definition of ‘threatened’.
- **Conservation Concern** includes all ‘extinct’, ‘threatened’, ‘rare’, ‘insufficiently known’ or ‘data deficient’ species (*sensu* Backhouse & Cameron 2005).
- **Listing** is used to describe the formal process of adding a species to a threatened species list (usually called a Schedule) in biodiversity conservation legislation (Act).

## Results

**NATIONAL ASSESSMENT** – A total of 424 orchid species are listed as extinct, threatened or rare in Australia (Appendix 1, summarised in Table 2). This total includes 195 species (about 12% of the Australian orchid flora) listed as extinct or threatened nationally, plus an additional 238 species (about 14% of the

TABLE 2. Number of extinct, threatened and rare orchid species in Australia by jurisdiction.

	NAT	NT	Qld	NSW	ACT	Vic	Tas	SA	WA
EX	7	0	3	0			2	0	0
EW	0								
CR	23			0			2		
EN	91	2	19	33	3		47	45	
VU	74	6	25	21			3	31	
RA			60				15	28	36
TH						75			
CD	0								
<b>Totals</b>	<b>195</b>	<b>8</b>	<b>107</b>	<b>54</b>	<b>3</b>	<b>75</b>	<b>69</b>	<b>104</b>	<b>36</b>

Shaded boxes indicate where the conservation status category is not used in the national/state/territory legislation

### Abbreviations

**Rows are conservation status categories:** EX = extinct; EW = extinct in the Wild; CR = critically endangered; EN = endangered; VU = vulnerable; RA = rare; TH = threatened; CD = conservation dependent

**Columns are jurisdictions:** NAT = National; NT = Northern Territory; Qld = Queensland; NSW = New South Wales; ACT = Australian Capital Territory; Vic = Victoria; Tas = Tasmania; SA = South Australia; WA = Western Australia.

Australian orchid flora) listed as extinct, threatened or rare at the regional (ie. state or territory) level. State and territory threatened species lists include another 52 species that are listed as extinct or threatened within their jurisdiction (Appendix 2), that would also qualify as threatened nationally, but are not yet included on the national threatened species list. An additional 54 species are listed under the category of ‘rare’ within the relevant jurisdiction (Appendix 3), that would also have this status nationally, but are not on the national threatened species list. There are seven species of orchids included on the national EPBC Act threatened species lists that are not included in the relevant state/territory threatened species list (Appendix 4). An additional two threatened orchids on the national list, *Dendrobium brachypus* (Endl.) H.G. Reichb. and *Phreatia paleata* H.G. Reichb., occur on Australia’s island territories not under state/territory jurisdiction.

**REGIONAL ASSESSMENTS** – For South Australia, the assessment by Bates (2006) indicated 146 orchids of ‘Conservation Concern’, compared with 104 listed under state legislation (Table 3). For Victoria, the two assessments indicated a total of 240 (Backhouse & Cameron 2005) and 257 orchids (DSE 2005) of

TABLE 3. Assessments of the numbers of orchids of 'conservation concern' in South Australia.

Category	NPWA	Bates (2006)
extinct	0	14
endangered	45	51
vulnerable	31	20
<b>threatened</b>	76	71
rare	28	48
data deficient	0	13
<b>Total conservation concern</b>	104	146

NPWA = National Parks & Wildlife Act 1972, South Australia.

'Conservation Concern', compared with just 75 orchids listed under state legislation (Table 4).

### Discussion

The national EPBC Act includes 195 orchid species listed as extinct or threatened nationally (Table 2), which is about 12% of the Australian orchid flora. The state and territory regional threatened species lists include another 52 species that are listed as extinct or threatened within their jurisdiction, that would also qualify as threatened nationally, but are not yet included on the national threatened species list. If these species are added, the total national extinct/threatened orchid count is 15% of the nation's orchids. An additional 54 species are listed under the category of 'rare' within the relevant jurisdiction that would have this status at the national level. Therefore, there is a total of 301 species of orchids of conservation concern (= extinct, threatened or rare) at the national level, that are currently listed on national and regional biodiversity conservation legislation. This is 18% of the Australian orchid flora. Based solely on a comparison of the official national and state/territory legislative threatened species lists, it appears that the official national list underestimates the real number of threatened orchids by at least 50 species, and perhaps as many as 100 or more species.

The comparisons of the comprehensive reviews of the conservation status of the orchid flora of South Australia (Bates 2006) and Victoria (Backhouse & Cameron 2005, DSE 2005) with listed threatened orchids in those states provides further evidence that official lists are a substantial underestimate of the

TABLE 4. Assessments of the numbers of orchids of 'conservation concern' in Victoria.

Category	FFGA	B&C 2005	DSE 2005
extinct		11	11
critically endangered		79	
edangered		26	95
vulnerable		92	49
<b>threatened</b>	75	197	144
near threatened		8	
data deficient		24	
insufficiently known			43
rare			59
<b>Total conservation concern</b>	75	240	257

Shaded boxes indicate where the conservation status category is not used in the assessment system

FFGA = Flora and Fauna Guarantee Act 1988, Victoria.

B&C 2005 = Backhouse & Cameron 2005.

actual number of threatened orchids. In South Australia, the number listed under the NPW Act may be an underestimate of the actual number of extinct, threatened or rare orchids by at least 42 species, based on Bates (2006) (Table 3). There is good evidence to suggest that at least 14 (and perhaps as many as 20) orchid species have become extinct in that state (Bates 2006), yet no orchid is currently listed as extinct under the NPW Act. In Victoria, there appears to be a much larger discrepancy between the official and actual number of threatened orchids. There are at least 150 extinct or threatened orchid species (DSE 2005), and perhaps over 200 (Backhouse & Cameron 2005), compared with only 75 species listed as threatened under the Victorian Flora and Fauna Guarantee Act 1988.

These figures also do not take account of recent taxonomic advances. For example, 90 new species of orchids for Australia were described in late 2006 (Jones 2006b, 2006c, Jones & Clements 2006, Jones & Rouse 2006, Jones *et. al* 2006), of which at least one was considered extinct and 53 considered threatened. Most of these species have yet to be included on any threatened species list.

This review and assessments strongly suggests that official lists of threatened orchids at both the national and state/territory level are a substantial underesti-

mate of the actual numbers of threatened orchids in Australia. There are several possible reasons for this large discrepancy.

**LISTING PROCESS** – The process to officially list a species as threatened can take a considerable period of time. Several jurisdictions have a similar listing process that includes the following steps:

- a species is nominated for listing;
- the nomination is assessed by a scientific reference committee;
- the committee makes a recommendation to list (or not list) to the relevant government minister;
- the recommendation is advertised for public comment;
- the committee makes a final recommendation to list (or not list);
- the government makes the listing.

In Victoria, under the FFG Act, the process takes a minimum of nine months in straightforward cases, and can take well over a year in complicated or contentious cases. Therefore, the listing process can lag well behind an initial assessment of threat. It is likely to be some years yet before the national threatened species list includes most or all orchids currently considered threatened.

**TAXONOMY** – There are many known but undescribed orchid species considered threatened (eg. Backhouse & Cameron 2005, DSE 2005, Bates 2006) that are not yet listed. If a species is not formally named, there is an understandable reluctance to list an essentially unknown entity. However, several jurisdictions have provision for listing known but undescribed species, and some undescribed orchids are listed at the state and national level (see Appendix 1). The recent description of over 50 new species considered threatened nationally (Jones 2006b, 2006c, Jones & Clements 2006, Jones & Rouse 2006, Jones *et. al* 2006) will greatly assist the prospects for these species being eventually listed.

**DIFFERING THREAT ASSESSMENTS** – Differing assessments of conservation status under different jurisdictions, and the use of different assessment systems, may also be hindering the listing of nationally threatened orchids. While there may be some commonality

between terminology used in most lists (eg. extinct, endangered, vulnerable), definitions do vary. Several state/territory lists still use ‘rare’, which is not regarded as a category of threat, and at least 54 species are rare at the national level. At least some of these species listed may well qualify for listing as threatened under national legislation. For instance, an assessment of the 45 orchid species considered rare in Victoria (DSE 2005) against IUCN 2001 categories found that 32 (71%) of these species were threatened, with 30 being assessed as vulnerable (Backhouse & Cameron 2005). The Queensland Government is phasing out the term ‘rare’ from its legislative list and current rare species will be reassessed to determine if any are threatened, although this won’t happen until 2010. Even some publications use inconsistent standards when describing conservation status. For instance, Riley and Banks (2002) often use ‘rare’ in combination with a threat category (eg. rare and endangered; rare and vulnerable) when describing conservation status. Jones (2006b) uses IUCN 2001 for some conservation status assessments of threatened orchids, and a system known as AROT’s (Australian Rare or Threatened Species, *sensu* Briggs & Leigh 1996) for other assessments, with several potentially threatened orchids being assessed as rare.

### **Recommendations**

This review and assessment of national and state/territory lists of threatened orchids in Australia has highlighted several deficiencies in the multiplicity of systems adopted by the different jurisdictions. Following are five recommendations proposed to improve the system for listing threatened orchids in Australia:

**I. Undertake a comprehensive national review of the conservation status of Australia’s orchids.**

A comprehensive national review and assessment of the conservation status of Australian orchids is highly desirable, as the most suitable and rapid way to bring national and regional threatened species lists up to date. This review should be undertaken using a single assessment system, preferably the IUCN Red List Categories and Criteria (IUCN 2001). This national review could easily be adapted for state/territory jurisdictions through the use of the IUCN regional assessment guidelines (IUCN 2003) in undertaking

the conservation status assessments. The national conservation status assessment could be modelled in the form of similar assessments in the national 'Action Plan' series undertaken for Australia's vertebrate fauna (eg. Wager & Jackson 1993, Bannister *et al.* 1996, Garnett & Crowley 2000) and butterflies (Sands & New 2003). This review can form the basis of a concerted approach to formally listing the large number of threatened orchids not currently on official legislative lists.

*2. Adopt a common set of categories and criteria for describing the conservation status of Australian orchids at both the national and regional (state/territory) level.*

Currently the state, territory and national governments use different systems for describing conservation status, which can make for vague, confusing or conflicting definitions, and comparisons between lists difficult. Even in some recent publications, conservation status assessments can be confusing. The IUCN Red List Categories and Criteria (IUCN 2001) are the current international standard, and have been adapted for use in the national EPBC Act. This is the most logical system to use for assessing conservation status, especially with the guidelines for application at the regional level (IUCN 2003). This would provide a common language at the regional and national level in communicating conservation status of threatened orchids.

*3. Streamline administrative processes to facilitate cross listings of threatened orchids.*

Threatened orchids listed under state/territory legislation currently have to go through a separate process for listing under national legislation. There are at least 50 orchid species listed under state/territory legislation that would qualify for listing under national legislation, and at least another 50 species listed as rare that would possibly qualify for national listing. At the current rate of listing, it will take several years for these species to be assessed and listed at the national level. It is highly desirable that, in situations where a threatened species is listed in a state or territory, and is endemic to that state/territory, there is a simple administrative process to quickly list these species under national legislation.

*4. Streamline administrative processes to accommodate changes in taxonomy.*

There have been many taxonomic changes affecting Australian orchids, especially changes to genus names, in recent years, and further changes are likely. At least 50 threatened orchid species are currently listed under an invalid scientific name, with some of these names having changed several years ago. Current systems for listing threatened species under biodiversity conservation legislation at both the state/territory and national level do not adequately deal with taxonomic changes. For threatened species that have had a name change since listing, this effectively requires a nomination to delist under the old name and then nomination for relisting under the new name. A process is clearly required to rapidly update the legislative threatened species lists to accommodate advances in science and taxonomy. A mechanism for linking listed species names with official taxonomic checklists maintained by state/territory and national herbaria would provide an efficient way for dealing with taxonomic changes.

*5. Prepare national and regional (state/territory) advisory lists of threatened orchids.*

The preparation of non-legislative 'advisory' lists of threatened orchids is a useful way of fairly quickly accommodating changes in taxonomy, information and conservation status. These are peer-reviewed, and can be updated much more rapidly than is the case with legislative lists. For instance, the Victorian threatened species advisory lists (DSE 2003, 2005) are revised every 2–3 years. While these advisory lists have no formal legislative standing, they are very useful as guides to the categories and number of threatened species, and can be used to highlight those species requiring formal listing under legislation.

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APPENDIX 1. Australian orchids listed as extinct, threatened or rare under national and state/territory biodiversity conservation legislation.

N	Species	NAT	NT	Qld	NSW	ACT	Vic	Tas	SA	WA
1	<i>Acianthus amplexicaulis</i>			RA						
2	<i>Acianthus collinus</i>						TH			
3	<i>Acianthus ledwardii</i>	EX		EX						
4	<i>Acianthus sublestis</i>			RA						
5	<i>Acriopsis javanica</i>			VU						
6	<i>Aphyllorchis anomala</i>			RA						
7	<i>Aphyllorchis queenslandica</i>			RA						
8	<i>Bulbophyllum argyropus</i>			RA						
9	<i>Bulbophyllum blumei</i>			EN						
10	<i>Bulbophyllum boonjee</i>			RA						
11	<i>Bulbophyllum globuliforme</i>	VU		RA	VU					
12	<i>Bulbophyllum gracillimum</i>	VU		VU						
13	<i>Bulbophyllum grandimesense</i>			RA						
14	<i>Bulbophyllum longiflorum</i>	VU		VU						
15	<i>Bulbophyllum weinthalii</i>			VU						
16	<i>Bulbophyllum windsorensense</i>			RA						
17	<i>Bulbophyllum wolfei</i>			RA						
18	<i>Cadetia collinsii</i>			RA						
19	<i>Cadetia waryana</i>			RA						
20	<i>Caladenia actensis</i>	CR				EN				
21	<i>Caladenia amoena</i>	EN					TH			
22	<i>Caladenia anthracina</i>	CR						CR		
23	<i>Caladenia arenaria</i>	EN			EN					
24	<i>Caladenia argocalla</i>	EN							EN	
25	<i>Caladenia atroclavia</i>	EN		EN						
26	<i>Caladenia audasii</i>	EN					TH		EN	
27	<i>Caladenia aurantiaca</i>							EN		
28	<i>Caladenia australis</i>							EN		
29	<i>Caladenia barbarella</i>	VU								RA
30	<i>Caladenia behrii</i>	EN							EN	
31	<i>Caladenia bicalliata</i>								RA	
32	<i>Caladenia brachyscapa</i>	EX					TH	EN		
33	<i>Caladenia brumalis</i>	VU							VU	
34	<i>Caladenia bryceana</i> subsp. <i>bryceana</i>	EN								RA
35	<i>Caladenia bryceana</i> subsp. <i>cracens</i>	VU								RA
36	<i>Caladenia busselliana</i>	EN								RA
37	<i>Caladenia caesarea</i> subsp. <i>maritima</i>	EN								RA
38	<i>Caladenia calcicola</i>	VU					TH		VU	
39	<i>Caladenia campbellii</i>	CR						CR		
40	<i>Caladenia cardiochila</i>							EX		
41	<i>Caladenia caudata</i>	VU						RA		
42	<i>Caladenia christineae</i>	VU								RA
43	<i>Caladenia clavigera</i>								EN	
44	<i>Caladenia cleistogama</i>								VU	
45	<i>Caladenia colorata</i>	EN							EN	
46	<i>Caladenia concolor</i>	VU			EN		TH			
47	<i>Caladenia conferta</i>								EN	
48	<i>Caladenia congesta</i>							EN	RA	
49	<i>Caladenia cruciformis</i>						TH			
50	<i>Caladenia cucullata</i>								RA	
51	<i>Caladenia dienema</i>	CR						VU		WA



N	Species	NAT	NT	Qld	NSW	ACT	Vic	Tas	SA	WA
52	<i>Caladenia dorrienii</i>	EN								RA
53	<i>Caladenia drakeoides</i>	EN								RA
54	<i>Caladenia elegans</i>	EN								RA
55	<i>Caladenia excelsa</i>	EN								RA
56	<i>Caladenia filamentosa</i>							RA		
57	<i>Caladenia formosa</i>	VU					TH		VU	
58	<i>Caladenia fragrantissima</i>						TH		RA	
59	<i>Caladenia fulva</i>	EN					TH			
60	<i>Caladenia gladiolata</i>	EN							EN	
61	<i>Caladenia gracilis</i>								EN	
62	<i>Caladenia graniticola</i>									RA
63	<i>Caladenia harringtoniae</i>	VU								RA
64	<i>Caladenia hastata</i>	EN					TH			
65	<i>Caladenia hoffmanii</i>	EN								RA
66	<i>Caladenia huegelii</i>	EN								RA
67	<i>Caladenia insularis</i>	VU					TH			
68	<i>Caladenia lindleyana</i>	CR						EN		
69	<i>Caladenia lowanensis</i>	EN					TH			
70	<i>Caladenia macroclavia</i>	EN							EN	
71	<i>Caladenia magnifica</i>						TH			
72	<i>Caladenia melanema</i>									RA
73	<i>Caladenia minor</i>								RA	
74	<i>Caladenia necrophylla</i>								RA	
75	<i>Caladenia ornata</i>	VU								
76	<i>Caladenia orientalis</i>	EN					TH			
77	<i>Caladenia ovata</i>	VU							VU	
78	<i>Caladenia pallida</i>	CR						EN		
79	<i>Caladenia parva</i>								EN	
80	<i>Caladenia patersonii</i>							VU		
81	<i>Caladenia pilotensis</i>						TH			
82	<i>Caladenia porphyrea</i>				EN					
83	<i>Caladenia procera</i>									RA
84	<i>Caladenia prolata</i>							EN		
85	<i>Caladenia pumila</i>	EX					TH			
86	<i>Caladenia pusilla</i>							RA		
87	<i>Caladenia richardstorum</i>	EN							EN	
88	<i>Caladenia rigida</i>	EN							EN	
89	<i>Caladenia robinsonii</i>	EN					TH			
90	<i>Caladenia rosella</i>	EN					TH			
91	<i>Caladenia saggicola</i>	CR						EN		
92	<i>Caladenia subulata</i>	EN					TH			
93	<i>Caladenia sylvicola</i>	CR						EN		
94	<i>Caladenia tensa</i>	EN								
95	<i>Caladenia tessellate</i>	VU			EN					
96	<i>Caladenia thysanochila</i>	EN					TH			
97	<i>Caladenia tonellii</i>	CR						EN		
98	<i>Caladenia toxochila</i>						TH			
99	<i>Caladenia valida</i>						TH		RA	
100	<i>Caladenia venusta</i>								VU	
101	<i>Caladenia versicolor</i>	VU					TH		VU	
102	<i>Caladenia viridescens</i>	EN								RA
103	<i>Caladenia vulgaris</i>								RA	
104	<i>Caladenia wanosa</i>	VU								RA
105	<i>Caladenia williamsiae</i>									RA

N	Species	NAT	NT	Qld	NSW	ACT	Vic	Tas	SA	WA
106	<i>Caladenia winfieldii</i>	EN								RA
107	<i>Caladenia woolcockiorum</i>	VU							VU	
108	<i>Caladenia xanthochila</i>	EN					TH		EN	
109	<i>Caladenia xantholeuca</i>	EN							EN	
110	<i>Caladenia</i> species 'Bordertown'								EN	
111	<i>Caladenia colorata</i>						TH			
112	<i>Caladenia</i> species 'Finniss'								EN	
113	<i>Caladenia</i> species aff. <i>fragrantissima</i>						TH			
114	<i>Caladenia</i> species 'Jarrah forest'	VU								
115	<i>Caladenia</i> species 'Koolunga'								EN	
116	<i>Caladenia</i> species aff. <i>rosella</i>						TH			
117	<i>Caladenia</i> species aff. <i>venusta</i>	CR					TH			
118	<i>Caleana major</i>								VU	
119	<i>Calochilus caeruleus</i>		VU							
120	<i>Calochilus campestris</i>								RA	
121	<i>Calochilus cupreus</i>								EN	
122	<i>Calochilus paludosus</i>								VU	
123	<i>Calochilus psednus</i>	EN		EN						
124	<i>Calochilus richiae</i>	EN					TH			
125	<i>Chiloglottis anaticeps</i>				EN					
126	<i>Chiloglottis cornuta</i>								EN	
127	<i>Chiloglottis longiclavata</i>			RA						
128	<i>Chiloglottis platyptera</i>				VU					
129	<i>Chiloglottis seminuda</i>						TH			
130	<i>Chiloglottis sphyrnoides</i>			VU						
131	<i>Chiloglottis trapeziformis</i>								EN	
132	<i>Corunastylis brachystachya</i>	EN						EN		
133	<i>Corunastylis ectopa</i>	CR				EN				
134	<i>Corunastylis firthii</i>	CR						EN		
135	<i>Corunastylis morrisii</i>							EN	EN	
136	<i>Corunastylis nuda</i>							RA		
137	<i>Corunastylis nudiscapa</i>							EX		
138	<i>Corybas abellianus</i>			RA						
139	<i>Corybas dentatus</i>	VU							EN	
140	<i>Corybas despectans</i>						TH			
141	<i>Corybas fordhamii</i>							EN	EN	
142	<i>Corybas montanus</i>	VU		VU						
143	<i>Corybas neocaledonicus</i>			RA						
144	<i>Corybas unguiculatus</i>								RA	
145	<i>Corybas</i> species aff. <i>diemenicus</i> (coastal)						TH			
146	<i>Corybas</i> species 'Finniss'	EN							EN	
147	<i>Cryptostylis erecta</i>						TH			
148	<i>Cryptostylis hunteriana</i>	VU			VU		TH			
149	<i>Cryptostylis leptochila</i>							EN		
150	<i>Cryptostylis subulata</i>								VU	
151	<i>Cyrtostylis robusta</i>							RA		
152	<i>Dendrobium antennatum</i>	EN		EN						
153	<i>Dendrobium bigibbum</i>	VU		VU						
154	<i>Dendrobium brachypus</i>	EN								
155	<i>Dendrobium callitrophilum</i>	VU		VU						
156	<i>Dendrobium carronii</i>	VU		VU						
157	<i>Dendrobium fellowsii</i>			RA						
158	<i>Dendrobium johannis</i>	VU		VU						
159	<i>Dendrobium lithocola</i>	EN		EN						

N	Species	NAT	NT	Qld	NSW	ACT	Vic	Tas	SA	WA
160	<i>Dendrobium malbrownii</i>			RA						
161	<i>Dendrobium melaleucaphilum</i>				EN					
162	<i>Dendrobium mirbelianum</i>	EN		EN						
163	<i>Dendrobium nindii</i>	EN		EN						
164	<i>Dendrobium phalaenopsis</i>	VU		VU						
165	<i>Dendrobium schneiderae</i> var. <i>schneiderae</i>			RA						
166	<i>Dendrobium speciosum</i>						TH			
167	<i>Dendrobium superbiens</i>	VU		VU						
168	<i>Didymoplexis pallens</i>			RA						
169	<i>Diplocaulobium masonii</i>	EX		EX						
170	<i>Dipodium campanulatum</i>								VU	
171	<i>Dipodium hamiltonianum</i>						TH			
172	<i>Dipodium pardalinum</i>								VU	
173	<i>Dipodium pictum</i>	EN		EN						
174	<i>Dipodium pulchellum</i>			RA						
175	<i>Diuris aequalis</i>	VU			EN					
176	<i>Diuris arenaria</i>				EN					
177	<i>Diuris behrii</i>								RA	
178	<i>Diuris bracteata</i>	EX			EN					
179	<i>Diuris brevifolia</i>								RA	
180	<i>Diuris chryseopsis</i>								EN	
181	<i>Diuris dendrobioides</i>						TH			
182	<i>Diuris disposita</i>				EN					
183	<i>Diuris drummondii</i>	VU								RA
184	<i>Diuris flavescens</i>				EN					
185	<i>Diuris fragrantissima</i>	EN					TH			
186	<i>Diuris lanceolata</i>	EN						EN		
187	<i>Diuris micrantha</i>	VU								RA
188	<i>Diuris ochroma</i>	VU			EN		TH			
189	<i>Diuris oporina</i>			RA						
190	<i>Diuris palustris</i>						TH	EN		
191	<i>Diuris parvipetala</i>			RA						
192	<i>Diuris pedunculata</i>	EN			EN					
193	<i>Diuris praecox</i>	VU			VU					
194	<i>Diuris punctata</i> var. <i>punctata</i>						TH		EN	
195	<i>Diuris purdiei</i>	EN								RA
196	<i>Diuris sheaffiana</i>	VU								
197	<i>Diuris sulphurea</i>								RA	
198	<i>Diuris tricolor</i>				VU		TH			
199	<i>Diuris venosa</i>	VU			VU					
200	<i>Diuris</i> species aff. <i>lanceolata</i>	EN					TH			
201	<i>Diuris</i> species aff. <i>chrysantha</i> 'Byron				EN					
202	Bay'				EN					
203	<i>Diuris</i> species 'Oaklands'			RA						
204	<i>Dockrillia wassellii</i>	VU								
205	<i>Drakaea concolor</i>	EN								RA
206	<i>Drakaea confluens</i>	EN								RA
207	<i>Drakaea elastica</i>	EN								RA
208	<i>Drakaea isolata</i>	VU								RA
209	<i>Drakaea micrantha</i>	EN								RA
210	<i>Epiblema grandiflorum</i> var. <i>cyaneum</i>			RA						RA
211	<i>Eria dischorensis</i>			RA						
212	<i>Eria irukandjiana</i>			RA						
213	<i>Eulophia bicallosa</i>			RA						

N	Species	NAT	NT	Qld	NSW	ACT	Vic	Tas	SA	WA
214	<i>Eulophia zollingeri</i>			RA						
215	<i>Gastrodia crebrifolia</i>			RA						
216	<i>Gastrodia queenslandica</i>			RA						
217	<i>Gastrodia urceolata</i>								RA	
218	<i>Gastrodia sesamoides</i>								VU	
219	<i>Gastrodia vescula</i>			RA						
220	<i>Genoplesium alticolum</i>				VU					
221	<i>Genoplesium baueri</i>								EN	
222	<i>Genoplesium ciliatum</i>								VU	
223	<i>Genoplesium despectans</i>				EN					
224	<i>Genoplesium insignis</i>			RA						
225	<i>Genoplesium pedersonii</i>	EN			EN					
226	<i>Genoplesium plumosum</i>	EN			EN					
227	<i>Genoplesium rhyoliticum</i>			RA						
228	<i>Genoplesium sigmoideum</i>				EN					
229	<i>Genoplesium superbum</i>	VU			VU					
230	<i>Genoplesium vernale</i>	EN		EN						
231	<i>Genoplesium tectum</i>			RA						
232	<i>Genoplesium validum</i>				EN					
233	<i>Geodorum densiflorum</i>	VU		VU						
234	<i>Grastidium tozerense</i>			RA						
235	<i>Habenaria divaricata</i>			EN						
236	<i>Habenaria harroldii</i>			RA						
237	<i>Habenaria hymenophylla</i>	EN		EN						
238	<i>Habenaria macraithii</i>		EN							
239	<i>Habenaria rumphii</i>			RA						
240	<i>Habenaria xanthantha</i>							RA		
241	<i>Hydrochis orbicularis</i>			RA						
242	<i>Liparis condylobulbon</i>			RA						
243	<i>Liparis simmondsii</i>		VU							
244	<i>Luisia teretifolia</i>		VU							
245	<i>Malaxis latifolia</i>		VU							
246	<i>Malaxis marsupichila</i>							RA	RA	
247	<i>Microtidium atratum</i>	EN			EN					
248	<i>Microtis angusii</i>									
249	<i>Microtis globula</i>								RA	RA
250	<i>Microtis orbicularis</i>								RA	
251	<i>Microtis rara</i>			RA						
252	<i>Nervilia crocifformis</i>		EN							
253	<i>Nervilia plicata</i>	EX		EX						
254	<i>Oberonia attenuata</i>			RA						
255	<i>Oberonia carnosata</i>				EN					
256	<i>Oberonia complanata</i>				VU					
257	<i>Oberonia titania</i>			RA						
258	<i>Pachystoma pubescens</i>			RA						
259	<i>Papillilabium beckleri</i>						TH		EN	
260	<i>Paracaleana</i> sp. aff. <i>nigrita</i>	EN								
261	<i>Paracaleana dixonii</i>								VU	RA
262	<i>Paracaleana minor</i>			RA	VU					
263	<i>Peristeranthus hillii</i>			RA						
264	<i>Peristylus banfieldii</i>	EN		EN	EN					
265	<i>Phaius australis</i>	EN		EN						
266	<i>Phaius bernaysii</i>	VU		VU						
267	<i>Phaius pictus</i>	EN		EN	EN					

N	Species	NAT	NT	Qld	NSW	ACT	Vic	Tas	SA	WA
268	<i>Phaius tancarvilleae</i>	EN		EN						
269	<i>Phalaenopsis rosenstromii</i>	EN								
270	<i>Phreatia paleata</i>	VU		VU						
271	<i>Pomatocalpa marsupiale</i>	EN			EN					
272	<i>Prasophyllum affine</i>	EN						EN		
273	<i>Prasophyllum amoenum</i>	EN						EN		
274	<i>Prasophyllum apoxychilum</i>								RA	
275	<i>Prasophyllum australe</i>				EN					
276	<i>Prasophyllum bagoensis</i>								VU	
277	<i>Prasophyllum calcicola</i>			RA						
278	<i>Prasophyllum campestre</i>	CR						EN		
279	<i>Prasophyllum castaneum</i>	EN					TH			
280	<i>Prasophyllum chasmogomum</i>	VU								
281	<i>Prasophyllum colemaniae</i>								RA	
282	<i>Prasophyllum constrictum</i>	EN					TH			
283	<i>Prasophyllum diversiflorum</i>			RA						
284	<i>Prasophyllum exilis</i>	CR						EN		
285	<i>Prasophyllum favonium</i>								RA	
286	<i>Prasophyllum fecundum</i>						TH			
287	<i>Prasophyllum fitzgeraldii</i>						TH			
288	<i>Prasophyllum fosteri</i>	EN					TH		EN	
289	<i>Prasophyllum frenchii</i>	VU			VU					
290	<i>Prasophyllum fuscum</i>								RA	
291	<i>Prasophyllum goldsackii</i>							EN		
292	<i>Prasophyllum incorrectum</i>			RA						
293	<i>Prasophyllum incompositum</i>						TH			
294	<i>Prasophyllum litorale</i>	CR						EN		
295	<i>Prasophyllum milfordense</i>							EN		
296	<i>Prasophyllum montanum</i>	VU					TH			
297	<i>Prasophyllum morganii</i>						TH			
298	<i>Prasophyllum niphopedium</i>								RA	
299	<i>Prasophyllum occultans</i>	CR						EN		
300	<i>Prasophyllum olidum</i>	VU							VU	
301	<i>Prasophyllum pallidum</i>	CR						EN		
302	<i>Prasophyllum perangustum</i>	EN			EN					
303	<i>Prasophyllum petilum</i>								VU	
304	<i>Prasophyllum pruinatum</i>	CR				EN		EN		
305	<i>Prasophyllum pulchellum</i>							EN		
306	<i>Prasophyllum pyriforme</i>				VU					
307	<i>Prasophyllum retroflexum</i>	CR						EN		
308	<i>Prasophyllum robustum</i>	EN						VU		
309	<i>Prasophyllum secutum</i>	VU							EN	
310	<i>Prasophyllum spicatum</i>	CR						EN		
311	<i>Prasophyllum stellatum</i>	EN					TH			
312	<i>Prasophyllum suaveolens</i>	EN					TH			
313	<i>Prasophyllum subbisectum</i>						TH			
314	<i>Prasophyllum suttonii</i>							RA		
315	<i>Prasophyllum tadgellianum</i>							EN		
316	<i>Prasophyllum taphanix</i>	EN						EN		
317	<i>Prasophyllum tunbridgense</i>	EN			EN					
318	<i>Prasophyllum uroglossum</i>	VU							VU	
319	<i>Prasophyllum validum</i>	VU		VU						
320	<i>Prasophyllum wallum</i>				EN					
321	<i>Prasophyllum</i> species 'Majors Creek'						TH			

N	<i>Prasophyllum</i> species 'Nagambie'	NAT	NT	Qld	NSW	ACT	Vic	Tas	SA	WA
322	<i>Pterostylis aenigma</i>	EN					TH			
323	<i>Pterostylis arenicola</i>	VU							VU	
324	<i>Pterostylis atriola</i>	EN						EN		
325	<i>Pterostylis baptistii</i>						TH			
326	<i>Pterostylis basaltica</i>	EN					TH			
327	<i>Pterostylis bicornis</i>	VU		VU						
328	<i>Pterostylis bryophila</i>								EN	
329	<i>Pterostylis chaetophora</i>			EN						
330	<i>Pterostylis cheraphila</i>	VU					TH			
331	<i>Pterostylis chlorogramma</i>	VU								
332	<i>Pterostylis cobarensis</i>	VU			VU					
333	<i>Pterostylis commutata</i>	CR						EN		
334	<i>Pterostylis concinna</i>								EN	
335	<i>Pterostylis cucullata</i>	VU			VU		TH	EN	VU	
336	<i>Pterostylis curta</i>								RA	
337	<i>Pterostylis cynocephala</i>							EN		
338	<i>Pterostylis despectans</i>	EN					TH			
339	<i>Pterostylis elegans</i>				VU					
340	<i>Pterostylis falcata</i>							RA		
341	<i>Pterostylis foliata</i>								RA	
342	<i>Pterostylis furcata</i>								EN	
343	<i>Pterostylis gibbosa</i>	EN			EN					
344	<i>Pterostylis grandiflora</i>							RA		
345	<i>Pterostylis longicurva</i>			RA						
346	<i>Pterostylis metcalfei</i>				EN					
347	<i>Pterostylis nigricans</i>			RA	VU					
348	<i>Pterostylis pratensis</i>	VU								
349	<i>Pterostylis pulchella</i>	VU			VU					
350	<i>Pterostylis rubenachii</i>	EN						EN		
351	<i>Pterostylis sanguinea</i>							RA		
352	<i>Pterostylis saxicola</i>	EN			EN					
353	<i>Pterostylis setifera</i>			RA					EN	
354	<i>Pterostylis squamata</i>							RA		
355	<i>Pterostylis tasmanica</i>								VU	
356	<i>Pterostylis tenuissima</i>	VU							VU	
357	<i>Pterostylis truncata</i>						TH			
358	<i>Pterostylis tunstallii</i>							EN		
359	<i>Pterostylis uliginosa</i>								EN	
360	<i>Pterostylis valida</i>	EX					TH			
361	<i>Pterostylis wapstrarum</i>	CR						EN		
362	<i>Pterostylis woollsii</i>			RA			TH			
363	<i>Pterostylis xerophila</i>	VU					TH		VU	
364	<i>Pterostylis ziegeleri</i>	EN						EN		
365	<i>Pterostylis</i> species 'Gundiah'			RA						
366	<i>Pterostylis</i> species aff. <i>boormanii</i>						TH			
367	<i>Pterostylis</i> species 'Botany Bay'	EN			EN					
368	<i>Pterostylis</i> species 'Broughton Gorge'								EN	
369	<i>Pterostylis</i> species 'Eyre Peninsula'	VU							VU	
370	<i>Pterostylis</i> species 'Halbury'	EN							EN	
371	<i>Pterostylis</i> species 'Hale'	EN							EN	
372	<i>Pterostylis</i> species 'Mt Bryan'								EN	
373	<i>Pterostylis</i> species 'Mt Olinthus'								EN	
374	<i>Pterostylis</i> species 'Mt Victoria Uranium Mine'								VU	
375	<i>Pterostylis</i> species 'Northampton'	EN								RA

N	Species	NAT	NT	Qld	NSW	ACT	Vic	Tas	SA	WA
376	<i>Pterostylis</i> species 'Oratan Rock'								VU	
377	<i>Pterostylis</i> species aff. <i>parviflora</i>								VU	
378	<i>Pterostylis</i> species 'Sandy Creek'								VU	
379	<i>Rhinerrhiza moorei</i>	VU		VU						
380	<i>Rhizanthella slateri</i>			RA	VU					
381	<i>Robiquetia wasselii</i>			RA						
382	<i>Sarcochilus dilatatus</i>				EN					
383	<i>Sarcochilus falcatus</i>						TH			
384	<i>Sarcochilus fitzgeraldii</i>	VU		EN	VU					
385	<i>Sarcochilus hartmannii</i>	VU		VU	VU					
386	<i>Sarcochilus hirticalcar</i>	VU		VU						
387	<i>Sarcochilus roseus</i>	VU		VU						
388	<i>Sarcochilus weinthalii</i>	VU		EN	VU					
389	<i>Schoenorchis sarcophylla</i>			RA						
390	<i>Spathoglottis paulinea</i>			RA						
391	<i>Spathoglottis plicata</i>	VU		VU						
392	<i>Spiranthes australis</i>								RA	
393	<i>Taeniophyllum confertum</i>			RA						
394	<i>Taeniophyllum lobatum</i>			RA						
395	<i>Taeniophyllum muelleri</i>	VU								
396	<i>Thelasis carinata</i>			RA						
397	<i>Thelymitra antennifera</i>							EN		
398	<i>Thelymitra benthamiana</i>							EN		
399	<i>Thelymitra bracteata</i>							EN		
400	<i>Thelymitra carnea</i>								RA	
401	<i>Thelymitra circumsepta</i>								EN	
402	<i>Thelymitra deadmaniarum</i>	EN								RA
403	<i>Thelymitra epipactoides</i>	EN					TH		EN	
404	<i>Thelymitra flexuosa</i>								RA	
405	<i>Thelymitra gregaria</i>						TH			
406	<i>Thelymitra hiemalis</i>						TH			
407	<i>Thelymitra holmesii</i>							RA	VU	
408	<i>Thelymitra jonesii</i>							EN		
409	<i>Thelymitra mackibbinii</i>	VU					TH			
410	<i>Thelymitra malvina</i>							EN	EN	
411	<i>Thelymitra matthewsii</i>	VU					TH		EN	
412	<i>Thelymitra merraniae</i>						TH			
413	<i>Thelymitra mucida</i>							RA	RA	
414	<i>Thelymitra psammophila</i>	VU								RA
415	<i>Thelymitra stellata</i>	EN								RA
416	<i>Thelymitra venosa</i>								EN	
417	<i>Thrixspermum congestum</i>		VU							
418	<i>Thyminorchis huntiana</i>							EN		
419	<i>Thyminorchis nothofagicola</i>	CR						EN		
420	<i>Trichoglottis australiensis</i>	VU		VU						
421	<i>Vanda hindsii</i>	VU		VU						
422	<i>Vrydagzynea paludosa</i>	EN		EN						
423	<i>Zeuxine oblonga</i>		VU							
424	<i>Zeuxine polygonoides</i>	VU		VU						
	<b>Totals</b>	<b>195</b>	<b>8</b>	<b>107</b>	<b>54</b>	<b>3</b>	<b>75</b>	<b>69</b>	<b>104</b>	

NAT = National; NT = Northern Territory; Qld = Queensland; NSW = New South Wales; ACT = Australian Capital Territory; Vic = Victoria; Tas = Tasmania; SA = South Australia; WA = Western Australia.

## APPENDIX 2. Nationally threatened orchids listed at the state/territory level but not at the national level.

N	Species	Qld	NSW	Vic	Tas	SA
1	<i>Acriopsis javanica</i>	VU				
2	<i>Caladenia conferta</i>					EN
3	<i>Caladenia cruciformis</i>			TH		
4	<i>Caladenia fragrantissima</i>			TH		RA
5	<i>Caladenia magnifica</i>			TH		
6	<i>Caladenia patersonii</i>				VU	
7	<i>Caladenia pilotensis</i>			TH		
8	<i>Caladenia porphyrea</i>		EN			
9	<i>Caladenia valida</i>			TH		RA
10	<i>Caladenia</i> species 'Bordertown'					EN
11	<i>Caladenia</i> species 'Finniss'					EN
12	<i>Caladenia</i> species aff. <i>fragrantissima</i>			TH		
13	<i>Caladenia</i> species 'Koolunga'					EN
14	<i>Caladenia</i> species aff. <i>rosella</i>			TH		
15	<i>Chiloglottis anaticeps</i>		EN			
16	<i>Chiloglottis platyptera</i>		VU			
17	<i>Genoplesium insignis</i>		EN			
18	<i>Genoplesium superbum</i>		EN			
19	<i>Diuris arenaria</i>		EN			
20	<i>Diuris</i> species aff. <i>chrysantha</i> 'Byron Bay'		EN			
21	<i>Diuris</i> species 'Oaklands'		EN			
22	<i>Gastrodia vescula</i>					VU
23	<i>Genoplesium baueri</i>		VU			
24	<i>Habenaria harroldii</i>	EN				
25	<i>Peristeranthus hillii</i>	RA	VU			
26	<i>Prasophyllum bagoensis</i>		EN			
27	<i>Prasophyllum fosteri</i>			TH		
28	<i>Prasophyllum incorrectum</i>				EN	
29	<i>Prasophyllum litorale</i>			TH		
30	<i>Prasophyllum niphopedium</i>			TH		
31	<i>Prasophyllum pruinosum</i>					VU
32	<i>Prasophyllum retroflexum</i>		VU			
33	<i>Prasophyllum suttonii</i>			TH		
34	<i>Prasophyllum taphanx</i>				EN	
35	<i>Prasophyllum</i> species 'Majors Creek'		EN			
36	<i>Prasophyllum</i> species 'Nagambie'			TH		
37	<i>Pterostylis bryophila</i>					EN
38	<i>Pterostylis elegans</i>		VU			
39	<i>Pterostylis metcalfei</i>		EN			
40	<i>Pterostylis nigricans</i>	RA	VU			
41	<i>Pterostylis</i> species 'Broughton Gorge'					EN
42	<i>Pterostylis</i> species 'Mt Bryan'					EN
43	<i>Pterostylis</i> species 'Mt Olinthus'					EN
44	<i>Pterostylis</i> species 'Mt Victoria Uranium Mine'					VU
45	<i>Pterostylis</i> species 'Oratan Rock'					VU
46	<i>Pterostylis</i> species aff. <i>parviflora</i>					VU
47	<i>Pterostylis</i> species 'Sandy Creek'					VU
48	<i>Rhizanthella slateri</i>	RA	VU			
49	<i>Thelymitra gregaria</i>			TH		
50	<i>Thelymitra hiemalis</i>			TH		
51	<i>Thelymitra jonesii</i>				EN	
52	<i>Thelymitra merraniae</i>			TH		

Qld = Queensland; NSW = New South Wales; Vic = Victoria; Tas = Tasmania; SA = South Australia.



## APPENDIX 3. Nationally rare orchids listed at the state/territory level but not at the national level.

N	Species	Qld	SA	WA
1	<i>Acianthus amplexicaulis</i>	RA		
2	<i>Acianthus sublestis</i>	RA		
3	<i>Aphyllorchis anomala</i>	RA		
4	<i>Aphyllorchis queenslandica</i>	RA		
5	<i>Bulbophyllum blumei</i>	EN		
6	<i>Bulbophyllum boonjee</i>	RA		
7	<i>Bulbophyllum grandimesense</i>	RA		
8	<i>Bulbophyllum windsorensense</i>	RA		
9	<i>Bulbophyllum wolfei</i>	RA		
10	<i>Cadetia collinsii</i>	RA		
11	<i>Cadetia wariana</i>	RA		
12	<i>Caladenia graniticola</i>			RA
13	<i>Caladenia melanema</i>			RA
14	<i>Caladenia minor</i>		RA	
15	<i>Caladenia necrophylla</i>		RA	
16	<i>Caladenia procera</i>			RA
17	<i>Chiloglottis longiclavata</i>	RA		
18	<i>Corybas abellianus</i>	RA		
19	<i>Corybas neocaledonicus</i>	RA		
20	<i>Dendrobium fellowsii</i>	RA		
21	<i>Dendrobium malbournii</i>	RA		
22	<i>Diuris oporina</i>	RA		
23	<i>Diuris parvipetala</i>	RA		
24	<i>Dockrillia wassellii</i>	RA		
25	<i>Eria dischorensis</i>	RA		
26	<i>Eria irukandjiana</i>	RA		
27	<i>Eulophia zollingeri</i>	RA		
28	<i>Gastrodia crebrifolia</i>	RA		
29	<i>Gastrodia queenslandica</i>	RA		
30	<i>Gastrodia urceolata</i>	RA		
31	<i>Genoplesium alticolum</i>	RA		
32	<i>Genoplesium pedersonii</i>	RA		
33	<i>Genoplesium sigmoideum</i>	RA		
34	<i>Genoplesium validum</i>	RA		
35	<i>Habenaria divaricata</i>	RA		
36	<i>Habenaria xanthantha</i>	RA		
37	<i>Liparis condylobulbon</i>	RA		
38	<i>Liparis simmondsii</i>	RA		
39	<i>Microtis globula</i>			RA
40	<i>Nervilia crocififormis</i>	RA		
41	<i>Oberonia carnosia</i>	RA		
42	<i>Peristylus banfieldii</i>	RA		
43	<i>Prasophyllum constrictum</i>		RA	
44	<i>Prasophyllum fecundum</i>		RA	
45	<i>Prasophyllum goldsackii</i>		RA	
46	<i>Prasophyllum incompositum</i>	RA		
47	<i>Prasophyllum occultans</i>		RA	
48	<i>Pterostylis species 'Gundiah'</i>	RA		
49	<i>Robiquetia wassellii</i>	RA		
50	<i>Schoenorchis sarcophylla</i>	RA		
51	<i>Spathoglottis paulinea</i>	RA		
52	<i>Taeniophyllum confertum</i>	RA		
53	<i>Taeniophyllum lobatum</i>	RA		
54	<i>Thelasis carinata</i>	RA		

Qld = Queensland; SA = South Australia; WA = Western Australia