

Flowering Times of Tasmanian Orchids: A Practical Guide for Field Botanists



Mark Wapstra (Environmental Consulting Options Tasmania, ECOtas)

4th Edition, July 2018

4th Edition (July 2018)

MARK WAPSTRA

FOREWORD TO FIRST EDITION (2008)

This document fills a significant gap in the Tasmanian orchid literature. Given the inherent difficulties in locating and surveying orchids in their natural habitat, an accurate guide to their flowering times will be an invaluable tool to field botanists, consultants and orchid enthusiasts alike. Flowering Times of Tasmanian Orchids: A Practical Guide for Field Botanists has been developed by Tasmania's leading orchid experts, drawing collectively on many decades of field experience. The result is the most comprehensive State reference on orchid flowering available.

By virtue of its ease of use, accessibility and identification of accurate windows for locating our often-cryptic orchids, it will actually assist in conservation by enabling land managers and consultants to more easily comply with the survey requirements of a range of land-use planning processes. The use of this guide will enhance efforts to locate new populations and increase our understanding of the distribution of orchid species. The Threatened Species Section commends this guide and strongly recommends its use as a reference whenever surveys for orchids are undertaken.

Matthew Larcombe

Project Officer (Threatened Orchid and Euphrasia)

Threatened Species Section, Department of Primary Industries, Parks, Water & Environment

March 2008

DOCUMENT AVAILABILITY

This document is freely available as a PDF file downloadable from the following websites: www.fpa.tas.gov.au; www.dpipwe.tas.gov.au; www.ecotas.com.au. Please check for the latest version.

It may also be requested directly from the author (see contact details below).

The author is aware that the PDF file prints to different qualities on different printers. I suggest printing a test page from a section of the document that shows all hatching and shading types. If you can't distinguish hatching and shading types when printing from the PDF file please contact the author for the Microsoft Word version.

FEEDBACK

The author welcomes comments and additional information that may inform future versions of this document. Contact details are as follows:

Mark Wapstra

mark@ecotas.com.au

Environmental Consulting Options Tasmania

28 Suncrest Avenue, Lenah Valley TAS 7008

ACKNOWLEDGEMENTS

Staff of the Tasmanian Herbarium provided collection date information for orchids held by their institution. Malcolm Wells, Peter Fehre, Phil Collier, Richard Schahinger and Wendy Potts contributed editorial and flowering time information. The original concept for this guide was by Nina Roberts (then at the Forest Practices Authority and a member of the Orchid Recovery Team). Previous versions were authored by Mark Wapstra with Nina Roberts and Hans & Annie Wapstra (who made significant contributions to the first edition by reference to field notebooks, image library and their memories). The latest edition includes information from other sources including the public Facebook group *Tasmanian Native Orchids* maintained by Craig Broadfield.

SUGGESTED CITATION

Please acknowledge use by the following citation:

Wapstra, M. (2018). Flowering Times of Tasmanian Orchids: A Practical Guide for Field Botanists. Self-published by the author (July 2018 version).

VERSIONS

1st edition: Apr. 2008; 2nd edition: Sep. 2010; 3rd edition: May 2012; 4th edition: Jul. 2018.

COVER ILLUSTRATIONS

Spring (*Pterostylis ziegeleri*); summer (*Pterostylis commutata*); autumn (*Pterostylis parviflora*); winter (*Pterostylis grandiflora*) – © Mark Wapstra.

BACKGROUND

Tasmania has over 214 species of native orchids (and one naturalised species). Many of these are listed as threatened on the Tasmanian *Threatened Species Protection Act 1995* and/or the Commonwealth *Environment Protection and Biodiversity Conservation Act 1999*. Other species are not listed as threatened but can be of regional significance because of their distribution (e.g. scarce in one part of the State but common elsewhere).

Almost any land use activity may have an effect on orchid species: some may be beneficial while others may be detrimental. The threatened status of many species places legal and policy requirements on landowners, land managers, developers and State and Commonwealth agencies. Recommendations are often made to undertake surveys for certain species to ensure that the proposed activity does not cause harm to a particular population.

There are hardly any constraints on the timing of a survey for perennial plants that can be identified at any time of the year, whether there is fertile material present or not. For example, a survey can be undertaken at any time of the year for *Spyridium vexilliferum* because this low shrub is so distinctive as to be easily detected and its identification does not rely on flowers or fruit. Some other species are trickier because flowering or fruiting material aids in their detection or identification although it may not be critical. For example, a survey for threatened *Epacris* species is certainly easier when they are in full flower in spring-summer although plants can be detected at any time, albeit perhaps somewhat dependent on the skill of the observer.

Although orchids are technically perennial, in that most have tubers from which new growth arises every season, effectively they are best described as ephemeral "annuals". Although their leaves usually emerge many months before flowering, these are often hard to detect among other vegetation, and they are usually difficult to identify to species level. Many orchids flower over a short period, usually in the order of weeks. Some individual plants may only flower for a week, some only one or two days. Some species only emerge and flower after certain disturbance events, notably fire. This combination of factors means that it is not a simple matter to survey for orchids.

PURPOSE OF THIS DOCUMENT

This document has been prepared to assist administrators (e.g. those in government agencies that recommend surveys for certain species), landowners, land managers, property developers, forest managers (e.g. those that are told they need to have a survey undertaken) and field botanists (e.g. those actually doing the surveys) in making rational decisions regarding the timing of surveys for orchids. It may also be a handy reference for orchid enthusiasts, photographers and botanists who wish to see what is likely to be flowering at any given time during the year.

The flowering times in this document should be taken as a guide only because there are always exceptions to the rules. However, it has drawn on as much published information and expert knowledge as possible.

The main impetus for this document is that current published information is insufficient to allow those unfamiliar with our orchids to make pragmatic decisions regarding the timing of surveys for threatened species. The definitive guide book for Tasmanian orchids, *The Orchids of Tasmania* (Jones et al. 1999) notes flowering times for all species and at first glance this would seem to provide a good indication for decision makers. But two examples show why this book should be regarded as general only in its information. The flowering time for *Pterostylis grandiflora* is described as April to August, which suggests a wide survey window of five months, nearly half the year. The reality is that while there are database records or herbarium collections spanning this period, most people familiar with this species would not look for it until late June to mid-July. The flowering time of *Burnettia cuneata* is given as October and November. In this case, the period is accurate and is a good guide. However, there is no practical point in undertaking surveys for this species unless there has been significant disturbance such as a summer fire in the preceding season because it only emerges in the season after fire (occasionally a very few plants might flower the second season after fire).

This document is not an identification guide. Field botanists must ensure that they correctly identify the orchids they are searching for. The author acknowledges that this can be difficult and urges people to exercise caution and rigour in their assessments.

This document is free to all. Users are simply asked to acknowledge its use. Every effort will be made to keep the guide up-to-date with current nomenclature and taxonomy but users are urged to keep abreast of these subjects themselves.

FORMAT

Orchid taxonomy is fluid and there is an almost constant shifting of names. This will not affect the use of this guide: a name is just a name. But there is also a fairly steady stream of additions, deletions, subsumations,

and varietal and subspecific rank creation going on. This sort of taxonomic activity may affect the use of this guide because if a taxon is split, the resulting taxa may have different flowering times.

This guide is presented in a table ordered alphabetically by genus and then species, based on the latest *A Census of the Vascular Plants of Tasmania, including Macquarie Island* (de Salas & Baker 2017) produced annually by the Tasmanian Herbarium. That document includes a relatively lengthy synonymy for most species such that it matters little whether one accepts the numerous genera within *Pterostylis, Caladenia, Corybas, Chiloglottis* and *Microtis* advocated in *A Complete Guide to Native Orchids of Australia including the Island Territories* (Jones 2006), as long as you know the most recent name used in the *Census*. This does mean, however, that some of the most recent taxonomy (e.g. *Paracaleana* moving back into *Caleana; Microtidium* and *Hydrorchis* moving back into *Microtis*) recognised by some authorities is not yet accepted herein.

This guide contains all species, not just threatened species, even though the latter group may be the focus of surveys for various reasons. However, it was thought useful to include non-threatened species because sometimes the process of elimination may assist in the identification of a species, threatened or otherwise.

HOW TO USE THIS DOCUMENT

Deciding on whether a survey is warranted for a particular species, and if a survey is warranted, when this should occur, is complex. The following steps are recommended.

- 1. If the reason for the survey is because of a database record, check its veracity and precision. Be wary of imprecise records and watch carefully for poor precision caused by data translation errors. It may be worthwhile checking with the original collector (if possible) because often records "belonging" to orchid enthusiasts are accompanied by detailed notes on their exact location and a lack of precision in a database does not always translate to a lack of precision on the ground.
- 2. Check the date of collection carefully because many databases can be misleading to the unwary user. For many older records, the date of collection is often only recorded as a month or a year in these cases some databases automatically superimpose a 1st of the month or 1st of the 1st month of the year. Hence, records with 1 or 1/1 in the date should be treated with caution, as should records that are well outside the expected flowering period (e.g. a winter record for a summer-flowering species.
- 3. Check the habitat information in sources such as *The Orchids of Tasmania* (note that information in listing statements and information sheets may be a distillation of other sources but can be more up-date). It is not sufficient to require a survey for a species just because there is a nearby record there must be potential habitat. Some habitat descriptions are quite broad and advice from an orchid specialist can often narrow the survey requirements.
- 4. Check the ecological information in this document and in *The Orchids of Tasmania* to ensure that a survey, if warranted on habitat grounds and database information, is still useful on ecological grounds. For example, there may be little practical point in undertaking a survey for a species that effectively only emerges after a high intensity summer fire.
- 5. Be aware that orchids differ from most other flowering plants in that they do not respond to the immediate seasonal conditions such as recent rain. The emergence of spring- and summer-flowering orchids is triggered by autumn and winter rains. In prolonged droughts they may not appear at all, or if leaves do appear they may wither before flowering or the young flower spike may abort. Thus, the failure of finding orchids in drought years does not necessarily mean that they are absent.
- 6. To determine the best time for a survey, find the target species in the table and check its flowering time, and the notes (e.g. some species flower later in highland habitats, earlier in lowland habitats).
- 7. Be alert that other significant species may be present at the time of the survey, even though there may not be any records from the vicinity.

REFERENCES

- de Salas, M.F. & Baker, M.L. (2017). A Census of the Vascular Plants of Tasmania, including Macquarie Island. Tasmanian Herbarium, Tasmanian Museum & Art Gallery, Hobart. [downloadable free from: www.tmag.tas.gov.au]
- Jones, D.L. (2006). A Complete Guide to Native Orchids of Australia including the Island Territories. Reed New Holland, Sydney.
- Jones, D., Wapstra, H., Tonelli, P. & Harris, S. (1999). *The Orchids of Tasmania*. Melbourne University Press, Melbourne.

SPECIES-BY-SPECIES GUIDE TO FLOWERING TIMES

species are so distinct as to make identification easy, even if the two species co-occur (which is common).

The flowering period of most species is taken from *The Orchids of Tasmania* (Jones *et al.* 1999), indicated as light grey shading. It is noted that *The Orchids of Tasmania* (Jones et al. 1999) often indicates a longer flowering period for several non-endemic species than typically observed in Tasmanian populations because knowledge from mainland populations was included in that publication. This discrepancy is displayed by using dark grey shading to indicate the observed peak flowering period in Tasmania, and hatching to indicate mainland-based information. This additional information is from several sources including more detailed published information (such as various species' protologues and more detailed species' accounts), personal knowledge of the author (sourced from many decades of orchid surveys and photography), information from Tasmanian Herbarium specimens, database information and other sources, and information sourced from orchid books covering mainland species such as *Native Orchids of Australia including the Island Territories* (Jones 2006).

Key

	Light grey = potential flowering period (see also notes below each entry)
	Dark grey = peak flowering period (see also notes below each entry)
	Hatching = potential flowering period based on mainland Australian populations (may not be applicable to Tasmanian populations in many situations so use caution in interpretation)
*	* preceding the species name denotes a threatened species on the Tasmanian <i>Threatened Species Protection Act 1995</i> and/or the Commonwealth <i>Environment Protection and Biodiversity Conservation Act 1999</i> (note that the status of species was correct at the time of publication but that users should confirm the status of any species prior to making management decisions)

Genus and species									SUI	MMER					AU ⁻	TUMN					WI	NTER		
	,																					ing by	the pre	esence
Acianthus caudatus	S	S	0	0	N	N	D	D	J	J	F	F	М	М	А	А	М	М	J	J	J	J	Α	А
This species often forms quite m	assive	colonie	es, but	not all	plants	may p	roduce	flowe	rs. The	specie	es has a	wide f	lowerii	ng peri	od but	there is	s a def	inite pe	eak in e	early to	o mid-s	pring (Septer	nber).
Acianthus pusillus	S	S	0	0	N	N	D	D	J	J	F	F	М	М	А	А	М	М	J	J	J	J	А	А

While there is no overlap in the main flowering period of the two species, old flowers of A. pusillus may still be detectable during the flowering period of A. caudatus. However, the two

Genus and species	SPRING								SUI	MMER					AU	TUMN					WI	NTER		
often in large numbers. In the s	second	seaso	n after	the fir	re an od	dd few	may r	eappe																
Burnettia cuneata								D	J	J	F	F	М	М	А	А	М	М	J	J	J	J	А	А
shoulder season into January, b	ual flowers of a plant only open for a few days, but planer season into January, based on recent observations on 0s over many hectares), but is often undetectable in the									specie	es resp	onds st	rongly	to hig	h inter									
flowering period of many specie virtually impossible (but see cor short flowering periods with son The flowering response of <i>Calad</i> especially the small-flowered sp	s. Dete mment ne pop denia t pecies,	ection s unde ulation to ever can be	prior to er some s flowe nts suc e reluct	o flowe e speci ering fo ch as fi cant to	ering is plies such or less the vary flower	possible as Cathan two from freely	le beca aladeni vo wee specie until tl	ause <i>C</i> ia latifo eks bef es to s he gro	aladen olia for ore wit pecies und co	ia leave possib thering but mo ver is	es are onle excent to union to	distinct eptions dentifia oond p blished	ively h). Dete ble bro ositivel l, usual	airy. Hection of the commend of the	loweve of <i>Cala</i> leaves igh int he 2 nd	er, distindenia s denia s and stand ensity or 3 rd f	nguish species talks. fires d lowerir	ing be can b uring t ng seas	tween e cons the pre	specie trained eceding aving s	s on th d in sor g sumn said thi	e basis ne spe ner. So s, the l	of leacies bome space	aves is y very pecies, f a fire
Caladenia alata	little point searching for this species unless there has large numbers. In the second season after the fire arough to lower intensity prescribed burning between activation of the season into January, based on recent observations of sover many hectares), but is often undetectable in the season into January, but is often undetectable in the season into January, but is often undetectable in the season into January, but is often undetectable in the season into January, but is often undetectable in the season of many species. Detection prior to flowering impossible (but see comments under some species season into January species. Detection prior to flowering impossible (but see comments under some species season into January species, can be reluctant to flow you the small-flowered species, can be reluctant to flow not necessarily a reason not to undertake a survey as the season individual plants open for a few days only, and ers of individual plants open for a few days only, and									J	F	F	М	М	А	А	М	М	J	J	J	J	А	А
The flowers of individual plants	open fo	or a fe	w days	only,	and loca	al popi	ulation	s usua	ally flov	ver ove	er a thr	ee wee	k peric	d only	·.									
Caladenia alpina	flowers of a plant only open for a few days, but place season into January, based on recent observations of over many hectares), but is often undetectable in the vering, species of Caladenia are amongst the most period of many species. Detection prior to flowering mpossible (but see comments under some species ering periods with some populations flowering for living response of Caladenia to events such as fire the small-flowered species, can be reluctant to floot necessarily a reason not to undertake a survey at a lalata S S O O N The season into January, based on recent observations of the most period of many species. Detection prior to flowering for living response of Caladenia to events such as fire the small-flowered species, can be reluctant to floot necessarily a reason not to undertake a survey at a lalata S S O O N The season into January, based on recent observations of the most period of many species. The season into January, based on recent observations of the most period of many species. The season into January, based on recent observations of the most period of many species. The season into January, based on recent observations of the most period of many species. The season into January, based on recent observations of the most period of many species. The season into January, based on recent observations of the most period of the most pe									J	F	F	М	М	А	А	М	М	J	J	J	J	А	А
This species spans a wide altitud	dinal ra	ange, a	nd loc	al flow	ering tir	mes va	ary acc	cording	jly. The	e close	ly relat	ed and	simila	C. cr	acens i	s typic	ally a l	owland	l speci	es that	flower	s earlie	er.	
Caladenia angustata	S	S	0	0	N	N	D	D	J	J	F	F	М	М	А	А	М	М	J	J	J	J	А	А
Peak flowering is variable, peak similar <i>C. gracilis</i> occur together																						closely	relate	ed and

Genus and species			SPI	RING					SUN	1MER					AUT	TUMN					WI	NTER		
* Caladenia anthracina	S	S	0	0	N	N	D	D	J	J	F	F	М	М	А	А	М	М	J	J	J	J	A	А
There is a strong peak in flower	ing in l	latter l	nalf of	Octobe	r and t	hrough	Nove	mber.	Drough	nt conc	litions	may af	fect flo	wering	ļ.	J				1		1		.1
Caladenia atrata	S	S	0	0	N	N	D	D	J	J	F	F	М	М	А	А	М	М	J	J	J	J	А	А
Peak flowering depends on the	coldnes	ss of tl	ne loca	lity.				•		•	1		•	•	•	•	•	•	•	1	•	1		
Caladenia atrochila	S	S	0	0	N	N	D	D	J	J	F	F	М	М	А	А	М	М	J	J	J	J	А	А
The flowers open for only a few	days b	efore	self-po	llinatin	g but f	inished	l flowe	rs shou	ıld be i	dentifi	able if	dissect	ted.	•	J	J				1		1		
* Caladenia aurantiaca	s	s	0	0	N	N	D	D	J	J	F	F	М	М	А	А	М	М	J	J	J	J	A	A
The flowering period on the ma													de on	5 Nove	mber	1992 a	nd 9 C	ctober	2004	The f	lowers	of this	specie	es las
* Caladenia australis	S	s	O	0	N	N	D	D	J	J	F	F	М	М	А	А	М	М	J	J	J	J	А	А
Flowering period on mainland A to be a good time to search for				er to No	ovembe	er. Kno	wn onl	y from	one co	llectio	n in Ta	smania	a (9 No	vembe	r 1968	, Flind	ers Isla	and). L	ate Oc	tober t	o early	Nover	nber is	likely
* Caladenia brachyscapa	S	S	o	o	N	N	D	D	J	J	F	F	М	М	А	А	М	М	J	J	J	J	А	А
Flowering period on mainland A	ustralia	a is Se	ptembe	er to N	ovemb	er. Kno	wn on	ly from	one c	ollection	on in Ta	asmani	ia (Claı	rke Isla	and, 7	Nov. 1	979, w	hich m	ay be	a good	l time t	o sear	ch for	ít.
* Caladenia campbellii	S	S	0	0	N	N	D	D	J	J	F	F	М	М	А	А	М	М	J	J	J	J	А	А
This species appears to have a	relative	ely sho	rt flow	ering p	eriod a	round	the las	st half	of Octo	ber ar	nd first	half of	Noven	nber.						ı	1	ı		

Genus and species			SPF	RING					SUN	MER					AUT	UMN					WI	NTER	ł	
* Caladenia cardiochila	s	s	0	0	N	N	D	D	J	J	F	F	М	М	А	А	М	М	J	J	J	J	A	A
Flowering period on mainland A	ustralia	a is Augu	Nover	mber b	ut colle	ected in	n Tasm	ania oi	nly onc	e (fron	n some	where	on Flir	nders I	sland)	in Octo	ober 1	947.	1	•	1			
Caladenia carnea	S	closely related species involving at least						D	J	J	F	F	М	М	Α	А	М	М	J	J	J	J	А	А
C. carnea is part of a complex many places), C. carnea usuall December and even January ha	/ begin	s flower	ng a	bout to	wo wee	eks afte	er <i>C. fu</i>	ıscata.	Field v	worker	s shoul	d watc	h for p											
* Caladenia caudata	S	S	0	0	N	N	D	D	J	J	F	F	М	М	Α	Α	М	М	J	J	J	J	Α	Α
It appears that populations in t Flora Park peaking in late Aug (e.g. Henry Somerset Conserva few or none in subsequent seas	ne sout ust to i	th of the mid-Septea) flow	Stat ember lat	e cons er but er (Oc	istently popula tober,	/ have ations a even ea	a peak at Coni arly No	flowe ingham	ring fron, Ridger). Thi	eway a s speci	Augus and Au les resp	st to la stins F oonds v	te Sep erry po with pr	tember eaking olific fl	r (altho in late owerin	ough the Septe	nis is e ember rst sea	ven va to mid ason af	-Octob ter a h	with the control of t	ne pop hile no tensity	orther fire, o	n at Wa n popu diminish	verley lations ning to
It appears that populations in t Flora Park peaking in late Aug (e.g. Henry Somerset Conserva few or none in subsequent seas habitat.	ne sout ust to i	th of the mid-Septea) flowere is not	Stat ember lat	e cons er but er (Oc	istently popula tober,	/ have ations a even ea	a peak at Coni arly No	flowe ingham	ring fron, Ridger). Thi	eway a s speci	Augus and Au les resp	st to la stins F oonds v	te Sep erry po with pr	tember eaking olific fl	r (altho in late owerin	ough the Septe	nis is e ember rst sea	ven va to mid ason af	-Octob ter a h	with the control of t	ne pop hile no tensity	orther fire, o	n at Wa n popu diminish	verley lations ning to
* Caladenia caudata It appears that populations in t Flora Park peaking in late Aug (e.g. Henry Somerset Conserva few or none in subsequent seas habitat. Caladenia clavigera A relatively early spider-orchid	ne south	th of the mid-Sepi ea) flowere is not	Stat ember lat requ	e cons er but er (Oc uired fo	populatober, or the s	/ have ations a even easpecies	a peak at Coni arly No to per	of flower	ring fron, Ridger). This espite	eway a s speci its size	e Augus and Au es resp e and d	st to la stins F conds v istincti	te Sep erry po with pr ve app M	tember eaking olific flo earand M	r (althorin late owerin ce, the	ough the Septeg the fispecie	nis is e ember rst sea s can l	ven va to mid ason af oe hard M	-Octob ter a h d to de	with the cer), whigh interest in	ne popy hile no tensity its off	orther fire, o ten dr	n at Wa n popu diminish ied-off	verley lations ning to grassy
It appears that populations in the Flora Park peaking in late Auging (e.g. Henry Somerset Conservation of the Florian Conservation of the Flor	ne south	ch of the mid-Septea) flowere is not	Stat ember lat requ	e cons er but er (Oc uired fo	populatober, or the s	/ have ations a even easpecies	a peak at Coni arly No to per	of flower	ring fron, Ridger). This espite	eway a s speci its size	e Augus and Au es resp e and d	st to la stins F conds v istincti	te Sep erry po with pr ve app M	tember eaking olific flo earand M	r (althorin late owerin ce, the	ough the Septeg the fispecie	nis is e ember rst sea s can l	ven va to mid ason af oe hard M	-Octob ter a h d to de	with the cer), whigh interest in	ne popy hile no tensity its off	orther fire, o ten dr	n at Wa n popu diminish ied-off	verley lations ning to grassy
It appears that populations in t Flora Park peaking in late Aug (e.g. Henry Somerset Conserva few or none in subsequent seas habitat. Caladenia clavigera A relatively early spider-orchid	ne sour	ch of the mid-Septea) flowere is not S	Staticemble required to the state of the sta	e conser but er (Octaired for O	istently population for the s	/ have attions a even easpecies	a peak at Coni arly No to per D	c flowe ingham vembersist. D	ring from the first f	eway as special its size	e Augus and Au es resp e and d	st to la stins F bonds v istincti	te Seprerry powith prove app	tember eaking olific floearand M	(althorin late owering the late owering the late owering the late ower the late of late of late ower the late of late of late ower the late of late of late of late ower the late of late of late of late ower the late of lat	bugh the Septe go the fispecie A The of the fispecie and the fispecie an	mis is expended in the second	ven va to mid ason af oe hard M te and	-October a had to define a had to define a had been been been been been been been bee	with the per), whigh intect in	ne popy while no tensity its off	orther fire, of ten dr	n at Wa n popu diminish ied-off	verley lations ning to grassy

There is a definite peak in flowering in November (most records are from the last half of November but it is in full flower in early November in the Port Sorell area and has been seen flowering in late October) but in colder areas this species may flower into early January. This is a highly distinctive species and finished flowers may be identifiable by dissection because of the highly distinctive labellum.

Genus and species			SPF	RING					SUI	MMER					AUT	TUMN					WI	NTER		
Caladenia cracens	S	S	0	0	N	N	D	D	J	J	F	F	М	М	А	А	М	М	J	J	J	J	А	А
This lowland species flowers from	m early	rly October to mid-November, while the							related	d and s	similar	C. alpir	na is ty	pically	a spec	cies of	higher	elevat	ions, a	nd flow	wers la	ter.	·	1
* Caladenia dienema	S	S O O N N D ies had a peak flowering in late October to							J	J	F	F	М	М	А	А	М	М	J	J	J	J	А	А
Initially it was thought that this climate. However, more recent identification of members of the	inform	ation i	indicate	s that	t flowe	ring ca	n com	mence	in ear	ly Sep	tember	and r	nay pe	ak in i	mid to	late O	ctober	. There						
Caladenia dilatata	S	S	0	0	N	N	D	D	J	J	F	F	М	М	А	А	М	М	J	J	J	J	А	А
A late spider-orchid, peaking fro	m late	Nover	mber in	to ear	ly Dece	ember.	Finish	ed flow	ers m	aintain	their d	istinct	shape	and co	olourin	g for up	o to tw	o weel	<s.< td=""><td></td><td></td><td></td><td><u> </u></td><td></td></s.<>				<u> </u>	
Caladenia echidnachila	S	S	0	0	N	N	D	D	J	J	F	F	М	М	А	А	М	М	J	J	J	J	А	А
Essentially a spring-flowering sp November) and <i>C. helvina</i> (whi species flowering in late Octobe	ch app	arently	/ flowe	rs in s	ummei	r i.e. D	ecemb	er to J	anuary) rem	ains co	nfused	becau	ise of p										
* Caladenia filamentosa	S	S	O	0	N	N	D	D	J	J	F	F	М	М	Α	А	М	М	J	J	J	J	А	А
This species is identifiable befor some time). This species respon																					segmer	nts per	sisting	for
Caladenia fuscata	S	S	0	0	N	N	D	D	J	J	F	F	М	М	А	А	М	М	J	J	J	J	А	А

C. fuscata is part of a complex of closely related species involving at least C. fuscata in Tasmania. Where C. carnea and C. fuscata grow together (which is in many places), C. carnea usually begins flowering about two weeks after C. fuscata. Field workers should watch for possible hybrids and use the key warily.

Genus and species			SPI	RING					SUI	MER					AUT	UMN					WI	NTER		
Caladenia gracilis	S	S	0	0	N	N	D	D	J	J	F	F	М	М	А	А	М	М	J	J	J	J	А	А
Peak flowering is in mid-October two weeks earlier and is nearly fi								losely	related	and si	milar (C. angu	stata o	occur to	ogethe	r, as th	ey do	at Fing	al, C.	angust	ata sta	rts flo	wering	abou
Caladenia helvina								D	J	J	F	F	М	М	А	А	М	М	J	J	J	J	А	А
This species is apparently most of flowers in spring. Unfortunately mis-identifications of <i>C. echidnac</i>	, her	barium	n colle	ctions	and da	atabase	e reco	rds in																
Caladenia latifolia	S	S	0	0	N	N	D	D	J	J	F	F	М	М	А	А	М	М	J	J	J	J	A	A
Populations of this species appea identified prior to flowering from																								can be
* Caladenia lindleyana	S	S	0	0	N	N	D	D	J	J	F	F	М	М	А	А	М	М	J	J	J	J	А	А
Flowering plants have been seen from Circular Head where they a												id-Dec	ember	in the	Lilyda	le area	, with	old re	cords f	rom th	ne 1800	Os in e	arly Ja	inuary
Caladenia mentiens	S	S	0	0	N	N	D	D	J	J	F	F	М	М	А	А	М	М	J	J	J	J	А	А
Flowers of <i>C. mentiens</i> usually op	pen fo	r only	one or	two d	ays bet	fore sel	lf-pollii	nating	and in	cold w	eather	they n	nay sel	lf-pollii	nate wi	thout o	penin	g	<u>-</u>		·			

Genus and species			SPI	RING					SUI	MMER					AUT	гими					WI	NTER		
* Caladenia patersonii	S	S	0	0	N	N	D	D	J	J	F	F	М	М	A	A	М	М	J	J	J	J	А	A
	ering t	period but with a distinct peak from Octoling the season after, then quickly diminisma) is uncertain.																						
* Caladenia prolata	S								J	J	F	F	М	М	А	А	М	М	J	J	J	J	А	А
In Tasmania only known from tl on Bass Strait islands could be						ember	1998 8	2006	, Flinde	ers Isla	nd; and	d 30 Oc	ctober	and 18	Noven	nber 2	004, D	eal Isla	nd), s	uggest	ing a g	ood se	arch w	indov
* Caladenia pusilla	S	S	0	0	N	N	D	D	J	J	F	F	М	М	Α	Α	М	М	J	J	J	J	А	А
The flowers of this tiny species	do not	always	s open	fully b	efore s	elf-poll	inating	, and	can be	hard to	detec	t in the	e field,	but wh	nen det	ected,	the sh	ort stif	f scape	e and t	iny bu	ds are	a give-	away
* Caladenia saggicola	S	S	0	0	N	N	D	D	J	J	F	F	М	М	А	Α	М	М	J	J	J	J	А	Α
The peak in flowering is early to	o mid-S	Septem	ber to	mid-O	ctober	. This s	pecies	respo	nds we	ll to di	sturbar	nce (ra	bbits a	nd hor	ses) ar	nd is lil	cely to	respor	nd stro	ngly to	fire.		I	
* Caladenia sylvicola	S	S	0	0	N	N	D	D	J	J	F	F	М	М	А	А	М	М	J	J	J	J	А	А
This species was not seen for m days either side of 1 Novembe withered a few days later.																								
	1	1																						T

Poorly-known so far and may extend from late October into early December, but most records are from early to late November. Finished flowers of this species are likely to be distinctive because of their stature and arrangement of flowers. This species has one of the longest leaves of the small-flowered caladenias (up to 25 cm tall, green and sparsely hairy) so detection prior to full flowering may be possible. It is part of the *C. carnea* complex and some of the smaller *C. tonellii* could be mistaken for that species (although *C. carnea* tends to flower earlier).

Genus and species			SPI	RING					SUI	MMER					AUT	TUMN					WI	NTER		
Caladenia transitoria	S	S	0	0	N	N	D	D	J	J	F	F	М	М	А	А	М	М	J	J	J	J	А	А
Although this species extends for greenish cream to greenish yellowith strong flowering following a	w bud	s (no o	ther co	onfusin																				
Caladenia vulgaris	S	S	0	0	N	N	D	D	J	J	F	F	М	М	А	А	М	М	J	J	J	J	А	А
This species is part of the <i>C. cai</i> to late December, possibly ever		•				•					• .			•	_		_		_	_	•			tober
Caleana This species is most easily deterflowering time. It looks like a re				•	_		•	and f	ertilise	ed flowe	ers are	also u	unmista	akable)	. The l	leaf en	nerges	in win	ter an	d is ful	lly dev	eloped	long l	pefore

Caleana major	S S O O N N I	D D	J	J	F F M	М	A A	М	М	J	J	J	J	Α	Α	
---------------	---------------	-----	---	---	-------	---	-----	---	---	---	---	---	---	---	---	--

The finished flowers of this summer-flowering orchid maintain their shape and colour for many weeks (detectable as late as March). The wide flowering period indicated for mainland States is unlikely to be applicable to Tasmania.

Calochilus

Beard-orchids are easiest to identify when in full flower but can be recognised many weeks before by their distinctive three-cornered basal leaf. Recently finished flowers can still be identified by the labellum (although dissection is a little awkward because of the fleshy flowers).



Poorly-known in Tasmania, collected only once, from Clarke Island on 12 November 1979, and one other unknown site (and unknown date apart from 1800s) from mainland Tasmania, which coincides with peak flowering of the other Tasmanian beard-orchids. Only reliably separated from C. herbaceus on leaf characters, the status of C. campestris relative to C. herbaceus remains uncertain in Tasmania.

Genus and species			SP	RING					SUI	MMER					AU ⁻	TUMN					WI	INTER		
Calochilus herbaceus	S	S	0	0	N	N	D	D	J	3	F	F	М	М	А	А	М	М	J	J	J	J	А	А
This species has a long flowering	g perio	d, with	n a pea	ak in N	ovemb	er, alth	ough o	often fo	ound in	to Dec	ember	depen	ding o	n seas	onal co	ondition	ns.							
Calochilus imberbis	S	S	O	O	N	N	D	D	J	J	F	F	М	М	А	А	М	М	J	J	J	J	А	А
This taxon was not included in 7 mainland Australia but Tasmani										erpetua	ating p	eloric f	orm (v	vith a p	oetaloi	d labell	um) of	C. pla	tychila	a. Flow	ering p	eriod a	above i	s from
Calochilus paludosus	s	S	0	0	N	N	D	D	J	J	F	F	М	М	А	А	М	М	J	J	J	J	А	A
Where growing together with <i>C.</i>	platyc	chilus (often)	this s	oecies f	lowers	one to	two w	reeks l	ater.														
Calochilus platychilus	S	S	O	0	N	N	D	D	J	J	F	F	М	М	А	А	М	М	J	J	J	J	А	А
Usually the first beard-orchid to	flower	r. Wher	re it gr	ows to	gether	with C	. palud	dosus,	which	is ofter	the c	ase, <i>C.</i>	platyc	hilus c	omes i	into flo	wer on	e or tv	vo wee	eks ear	lier.			

Chiloglottis

Chiloglottis species usually grow in extensive, often dense, colonies recognisable for most of the year from their paired leaves (but watch for aberrant populations with many plants with one main leaf and a rudimentary second leaf). Identification to species level is possible in buds as well as finished flowers by extracting the labellum. Fertilised flowers are difficult to identify correctly because flower parts tend to become fused (although *C. cornuta* is distinctively green). Fertilised flowers elongate considerably making detection easy but identification difficult.

This species occupies a wide elevational range, with flowering peaking in November at sea level, up to late December at high elevations.

Chiloglottis grammata	S	S	О	О	N	N	D	D	J	J	F	F	М	М	Α	А	М	М	J	J	J	J	А	А
-----------------------	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---

This species is found from low to high elevations, with flowering peaking in late October and November at lower levels, well into December at higher elevations and other cold places.

Genus and species			SPI	RING					SUN	1MER					AUT	UMN					WI	NTER		
Chiloglottis gunnii	S	S	0	0	N	N	D	D	J	J	F	F	М	М	А	А	М	М	J	J	J	J	А	А
Flowering time depends on elev	ation a	ind col	dness (of the l	ocality	, with	floweri	ng as e	early as	late C	October	at low	eleva	tions a	nd as I	ate as	Janua	y at hi	gh ele	vations	5.			
Chiloglottis reflexa	S	S	0	0	N	N	D	D	3	3	F	F	М	М	А	А	М	М	J	J	J	J	А	А
A typical autumn species, locall months based on images of the							Decem	nber, Ja	nuary,	June,	July a	nd Aug	just ar	e not s	haded	but th	e spec	ies ha	s been	record	ded in	full flo	wer in	these
Chiloglottis sp. Wielangta	S	S	0	0	N	N	D	D	J	J	F	F	М	М	А	А	М	М	J	J	J	J	А	А
This taxon is based on specimer the State. Further collections of be more broadly circumscribed.																								
* Chiloglottis trapeziformis	S	S	0	0	N	N	D	D	J	J	F	F	М	М	А	А	М	М	J	J	J	J	А	А
Only known from a few sites in	Tasma	nia wit	h a wid	de rang	ge of flo	owerin	g time	s, varyi	ng fro	m mid-	Augus	on Fli	nders :	Island	to mid	-Octob	er-ear	y Nove	ember	on ma	inland [*]	Tasma	nia.	
Chiloglottis triceratops	S	S	0	0	N	N	D	D	J	J	F	F	М	М	А	А	М	М	J	J	J	J	Α	А
This species flowers as early as	the firs	st half	of Octo	ber at	lower	elevati	ions ar	nd as la	ite as l	ate De	cembe	at hig	her ele	evation	s and i	in cold	er plac	es.	-	•			-	
Chiloglottis valida	S	S	0	0	N	N	D	D	3	3	F	F	М	М	Α	А	М	М	J	J	J	J	А	А

In Tasmania, until recently only known from King Island (27 October 1998; 20 November 2009) but recently discovered flowering in late December and into January in the Dial Range on mainland Tasmania, indicating a potentially long flowering period.

Genus and species			SPI	RING					SU	MMER					ΑU٦	гими					wi	NTER		
Corunastylis When not flowering, Corunastylis makes them hard to detect in th are rarely useful for identification	eir sui	rounds	s. The i	flower	stems	elonga	te in t	he fruit	ing sta	age and	l persis	t for m	nany m	onths.	They r	may th								
Corunastylis archeri	S	S	0	0	N	N	D	D	J	J	F	F	М	М	А	А	М	М	J	J	J	J	А	А
Flowering peaks in December an	nd Jan	uary bu	ut varie	es betv	veen si	tes ma	rkedly	with s	ome p	opulatio	ons in	full flo	wer as	early a	s Nove	ember.								
*Corunastylis brachystachya	S	S	О	0	N	N	D	D	J	J	F	F	М	М	А	А	М	М	J	J	J	J	А	А
Flowering appears to peak in Ma	rch ar	nd exte	end thro	ough A	pril an	d even	into M	1ay.	•								•				•	•		
Corunastylis despectans	S	S	0	0	N	N	D	D	J	J	F	F	M	М	А	А	М	М	J	J	J	J	А	А
Historical records indicate that t	his spe	ecies m	nay flow	wer as	early a	as Octo	ber, w	hile re	cent re	cords s	sugges	t a pea	ak in flo	owering	g from	early J	anuary	, thro	ugh to	late M	arch at	highe	r eleva	tions.
* Corunastylis firthii	S	S	0	0	N	N	D	D	J	J	F	F	М	М	А	А	М	М	J	J	J	J	А	А
The few records indicate this spe then (supporting existing doubts								ry. It is	restri	cted to	the Fr	eycinet	t Penin	sula, w	here t	he clos	ely rela	ated ar	nd simi	lar C. t	tasman	ica is a	ilso in	flower
* Corunastylis morrisii	S	S	0	0	N	N	D	D	J	J	F	F	М	М	А	А	М	М	J	J	J	J	А	А
The flowering period of this spec	cies ex	tends	into Ma	arch bu	ıt most	collec	tions a	re fron	n late	January	/ throu	gh to l	ate Fel	bruary.			•	•	•	•	•	•	•	•
* Corunastylis nuda	S	S	0	0	N	N	D	D	J	J	F	F	M	М	А	А	М	М	J	J	J	J	А	А
This species extends well into hi	gher e	elevatio	ons who	ere flo	wering	peaks	in Feb	ruary.	<u> </u>											ı	<u> </u>	1	<u> </u>	

SUMMER

AUTUMN

WINTER

Genus and species

SPRING

,																								
* Corunastylis nudiscapa	S	S	0	0	N	N	D	D	J	J	F	F	М	M	А	А	М	М	J	J	J	J	А	А
The flowering period of this specknown to be an error and it is m The species was recently re-disc known site, old flowering spikes December and easily identifiable	ore like coveree can be	ely tha d in ea e detec	t the sport of the	pecime il and late as	ns wer the sta s Augu	e colle ge of f st but	cted or lowerir this ma	n 9 Oct ng sug ay not	ober 1 gests t be the	840. A hat the case a	nother e appro at othe	collect priate	ion of t time o	the spe f year	cies fr for det	om the ection	1850s is from	from late f	near O ebrua	yster (ry thro	Cove is ough to	also fr early	om Oc April.	tober. At one
Corunastylis pumila	S	S	0	0	N	N	D	D	J	J	F	F	М	М	А	А	М	М	J	J	J	J	А	А
It appears that peak flowering r	nay be	confin	ed to t	he mo	nth of	Februa	ry.																	
Corunastylis tasmanica	S	S	О	0	N	N	D	D	J	J	F	F	М	М	А	Α	М	М	J	J	J	J	А	А
This species has a long flowering upon.	ıg peri	od, eve	en with	in a si	ngle lo	cality.	Fertilis	sed spe	ecimen	s have	been	detecte	ed as l	ate as	early S	Septem	iber bu	it this	level o	f dete	ction sl	nould r	not be	relied
Corybas Flowers of Corybas are easily or colour) and this can be a rough C. fimbriatus, C. fordhamii, C. Acianthus and Cyrtostylis, this dwith habitat features. Leaves and	guide i incurvu ifferen	to iden <i>is</i>); an ce in le	itification of those eaf colo	on of spector of the contraction	pecies: are gr n withii	those ey-gre	that ai en abo	re dark ve and	green d reddi	above sh pur	and p	urple b ow (<i>C.</i>	elow (<i>ungui</i>	C. aco culatus	nitiflorus). Pro	<i>us</i>); the vided t	ose tha	it are <u>c</u> d work	reen c er can	n both differ	surfac entiate	es (<i>C.</i> betwe	<i>dieme</i> en <i>Co</i>	enicus, erybas,
Corybas aconitiflorus	S	S	0	0	N	N	D	D	J	J	F	F	М	M	A	А	М	М	J	J	J	J	А	А
Non-flowering plants can be ide	ntified	from t	heir so	mewha	at leath	nery, h	eart-sh	naped I	eaves	that a	e dark	green	above,	, purpl	sh ber	eath.								
Corybas diemenicus	S	S	0	0	N	N	D	D	J	J	F	F	М	М	А	А	М	М	J	J	J	J	А	А
Although the flowering period of	f this s	pecies	is very	long,	there i	s a def	inite pe	eak in	late Ju	ne and	July, _I	perhap	s some	what I	ater at	highe	r eleva	tions.						

Genus and species			SPF	RING					SUN	1MER					AUT	TUMN					WI	NTER		
* Corybas dienemus	S	S	0	0	N	N	D	D	J	J	F	F	М	М	А	А	М	М	J	J	J	J	А	А
Species restricted to Macquarie	Island.	. Flowe	ers natu	urally i	n late s	spring ((Noven	nber) t	hrough	n to ea	ly sum	ımer (I	Decem	ber).										
Corybas fimbriatus	S	S	0	0	N	N	D	D	J	J	F	F	М	М	А	А	М	М	J	J	J	J	А	А
A species of northern Tasmania	and Ba	ass Str	ait isla	nds, w	ith a p	eak in i	floweri	ng in J	une an	ıd into	July.				•	•								
* Corybas fordhamii	S	S	0	o	N	N	D	D	J	J	F	F	М	М	А	А	М	М	J	J	3	1	A	A
Flowers from July to October on	the m	ainlan	d but ir	n Tasm	nania o	nly kno	wn fro	m a co	llectio	n from	Flinder	s Islan	d in S	epteml	per, wh	nich is	probab	ly the	best ti	me to	look fo	r it her	e.	A
Corybas incurvus	S	S	0	0	N	N	D	D	J	J	F	F	М	М	А	Α	М	М	3	3	J	J	А	А
A species with a long flowering p	period	but wi	th a pe	ak aro	und Au	ıgust.		I	I.		l			l	J	•	•		•	. N	<u> </u>			
* Corybas sulcatus	S	S	0	0	N	N	D	D	J	J	F	F	М	М	А	А	М	М	J	J	J	J	А	А
Species restricted to Macquarie	Island.	. Flowe	ers natu	urally i	n late s	spring ((Noven	nber) t	hrough	to ea	ly sum	ımer (I	Decem	ber).	1					1	1	ı		1
Corybas unguiculatus	S	S	0	0	N	N	D	D	J	J	F	F	М	М	А	А	М	M	J	J	J	J	А	А

Outside the flowering period plants can be identified from their heart-shaped leaves that are grey-green above, reddish purple beneath. An unusual form south of Marrawah has leaves that are only faintly flushed red-purple beneath, more commonly wholly green – this form also has different colour varieties and 2-flowered specimens.

Genus and species			SP	RING					SU	MMER					ΑU	TUMN					WI	NTER		
Cryptostylis When flowering, species of <i>Cry</i> leathery leaves are distinctive										enser s	edgy ł	nabita	ts). Thi	s is on	e of th	e few e	evergre	een ord	chid ge	enera i	n Tasm	nania a	and the	e ered
* Cryptostylis leptochila	S	S	0	0	N	N	D	D	J	J	F	F	M	M	А	А	М	М	J	J	J	J	А	А
Within Tasmania, this species i	s only k	nown	from F	linders	Island	, with a	all coll	ections	from	late Jar	nuary.													
Cryptostylis subulata	S	S	0	0	N	N	D	D	J	J	F	F	М	М	А	А	М	М	J	J	J	J	А	Α
Detectable in bud stage as bud and April at some sites.	are la	rge and	d show	colou	r early.	While	there	is a pe	ak in fl	owering	g from	late D	ecemb	er thro	ugh to	Januar	y, the	specie	s can b	e dete	cted ir	nto Feb	ruary,	Marc
Cyrtostylis																	G.		oriod b	u tho d				
When flowering, species of <i>Cyr</i> leaves. Confusion with <i>Acianth</i> hugging leaves. The leaves of the services o	<i>us</i> is ur	nlikely	as the	ir leav	es are	purplis	h belo	w. Exp	erienc	e is ne	eded t	o disti	nguish	this ge	enus fr									

F

F

Μ

Μ

Μ

М

Α

identification is possible many weeks before and after flowering.

S

S

0

0

Ν

Ν

D

D

J

* Cyrtostylis robusta

Genus and species			SPR	RING					SUM	1MER					AUT	UMN					WI	NTER		
Dipodium The single Tasmanian species is	s a high	ıly dist	inctive	summ	er-flow	ering l	eafless e	pipara	asite.															
Dipodium roseum	S	S	0	0	N	N	D I		J	J	F	F	М	М	А	А	М	М	J	J	J	J	А	А
In full flower, this spectacular s asparagus spears. After floweri observed flowering in May at Fr	ng, the	sturd	y stems	s with																				
Disa																								
This genus is represented by a s prior to this from the clump-fo summer and remain detectable	rming l	ight gr	een tu	ft of fl	eshy le	aves (which di	es dov																
Disa bracteata	S	S	0	0	N	N	D I	5	J	J	F	F	М	М	А	А	М	М	J	J	J	J	А	А
Now known from several sites a	across r	norther	n Tasm	nania,	all have	e flowe	ring spe	cimens	s duri	ing Nov	vembe	, with	buds a	and ear	ly flow	ers in	late	October.						
Diunio																								
Diuris Diuris species have long, narror the absence of flowers, except displays as a response to high i	perhap:	s in red	cently b	ournt a	reas). I	Flower	ing plant	s are	easily	/ detec	ted du	e to th	neir oft	en larg	e brigh	tly cold	oure	d flowers	. Some	e speci				

D

J

D

N

N

Diuris chryseopsis

S

S

0

0

F

Μ

Α

Α

Genus and species			SPI	RING					SUI	MMER					AUT	UMN					WI	NTER		
* Diuris lanceolata	S	S	0	0	N	N	D	D	J	J	F	F	М	М	A	А	М	М	J	J	J	J	А	А
A species from the northwest co	ast, w	here m	ost flo	wering	occur	s in No	vembe	r (som	etime	s last h	alf of C	Octobe	r, depe	nding	on seas	sonal c	conditio	ons).						
Diuris monticola	S	S	0	0	N	N	D	D	J	J	F	F	М	М	А	А	М	М	J	J	J	J	А	А
A highland species, hence flowe	ring la	ter tha	n the o	other T	asman	ian spe	cies.				•	•	•	•					•			•	•	
Diuris orientis	s	S	0	0	N	N	D	D	J	J	F	F	М	М	А	А	М	М	J	J	J	J	А	А
A coastal and near-coastal spec	ies flov	wering	for a s	hort p	eriod w	ith flov	vers ge	enerally	y gone	by mid	d-Nove	mber.												
* Diuris palustris	S	S	0	0	N	N	D	D	J	J	F	F	М	М	А	А	М	М	J	J	1	1	Α	А
A coastal species with quite a fe	w earl	y and I	ate red	cords b	out mos	stly pea	aking a	round	Octob	er and	into No	ovemb	er.											
Diuris pardina	S	S	0	0	N	N	D	D	J	J	F	F	М	М	А	А	М	М	J	J	J	J	A	A
A spring-flowering species (mai	nly ear	ly sprir	ng, oft	en slig	htly be	fore <i>D.</i>	sulphi	<i>urea</i> w	here tl	ne spec	ies co-	occur)												
Diuris sulphurea	S	S	o	0	N	N	D	D	J	J	F	F	М	М	А	А	М	М	J	J	J	J	A	A
A spring-flowering species (mai	nly late	er sprin	ıg, ofte	en sligl	ntly aft	er <i>D. p</i>	ardina	has fir	nished	floweri	ng, mo	st obv	ious w	here th	ne spec	ies co-	occur)							

Genus and species			SPI	RING					SUI	MMER					AU7	ГИМИ					WI	NTER		
Dockrillia Dockrillia is detectable at any t presence of the bright yellow flo	ime of	the yea	ar bec se are	ause t certair	the dis	tinctive critical,	lithopl , excep	hytic pot for s	oatches separat	s of su tion of	cculent subspe	leave	s are p	resent	all yea	ar roun	ıd. The	re is n	o dout	ot that	detect	ion is a	aided l	by the
Dockrillia striolata	S	S	0	0	N	N	D	D	J	J	F	F	М	М	А	А	М	М	J	J	J	J	А	А
Both subspecies flower at the sa	ame ti	me, perl	haps s	slightly	into N	Novemb	er for s	subsp.	striola	ita.														
Eriochilus																								

This genus is represented in Tasmania by only one species, *E. cucullatus*, which is widespread at a range of elevations. The single leaf is only partly developed at flowering time. After the flower has withered, the characteristic ovate ground-hugging (or semi-erect) dark green leaf develops fully and remains present through winter and early spring. For a time, a second recently described species, *E. magenteus*, was considered to be present but this is now no longer considered the case.

This species has a wide elevational range, with flowers first appearing in late January in lowland, much later at high elevations. Flowering can persist into April at some locations.

Gastrodia The brown leafless stems of these saprophytic orchids are hard to see in their surrounds until the flowers are developed. S S Ν D F М J Gastrodia procera 0 0 Ν D J М Μ Α Μ J Α Α Α After fertilisation specimens of *G. procera* remain visible for many weeks, particularly obvious because of the massively swollen ovaries. S S Ø Ø Ν F М Gastrodia sesamoides D D J М М М Α Α Α

This species flowers well before *G. procera*. Unlike that species, fertilised specimens rarely persist because of the weaker scape, which withers rapidly and falls to the ground (sometimes the scape with fallen flower head looks like a "stick" of bracken).

Genus and species			SPI	RING					SUN	1MER					AUT	TUMN					W	NTER		
Gastrodia surcula	S	S	0	0	N	N	D	D	J	J	F	F	М	М	А	А	М	М	J	J	J	J	А	А

This species has only recently been recognised as present in Tasmania. On the mainland, *G. surcula* occurs at higher elevations and flowers in December and January. In Tasmania, the species occurs at lower elevations (e.g. King Island, Hobart) and its flowering seems to coincide with that of both *G. sesamoides* and *G. surcula*. The status of the species remains somewhat uncertain in Tasmania because identification appears to rely on excavation of the rhizomes and tubers.

Glossodia

Tasmania has a single species of *Glossodia*, which is unmistakable when in flower, and also easily detected from leaves. The single hairy leaf develops in winter and is fully grown at flowering time.

Glossodia major	S S	0	O N	N D	D	J	J	F	F	М	М	Α	Α	М	М	J	J	J	J	A	P		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
-----------------	------------	---	-----	-----	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	--	---

This is one of the earliest orchids to appear in spring. It is present throughout spring, depending on the site and seasonal conditions.

x Glossadenia

This is a rarely encountered intrageneric hybrid between *Glossodia major* and *Pheladenia deformis*. Technically, both parents would need to be in flower in an area for this entity to be present but this does not always seem to be immediately obvious.

The flowering period appears to be mid-September to October. Flowers are most likely to be found in the first few years after a fire.

Hydrorchis

A single Tasmanian species in this genus formerly included in *Microtis*. Leaves are virtually impossible to detect in swampy grasslands and herbfields, but although the flowers are small, flowering plants are surprisingly easy to detect. Some authorities have placed this species back into *Microtis*.



Although there are Tasmanian Herbarium records from as late as January, there is a strong peak in flowering in November.

Genus and species			SPI	RING					SUI	1MER					AU [*]	TUMN					w	INTE	₹
Leptoceras Leptoceras is unmistakable whe has a small ligule-like growth at			and als	o easily	/ detec	ted fr	om lea	ves, of	ten in	colonie	s. The	e distino	tive gı	ound-	huggin	g, brig	ght gree	en leaf	is wel	l devel	oped l	oefore	flowering and
Leptoceras menziesii	S	S	0	0	N	N	D	D	J	J	F	F	М	М	А	А	М	М	J	J	J	J	A A
This species flowers mainly afte	r fire a	althoug	h leave	es may	be fou	nd fro	m late	winter	regard	lless of	f fire.												
Lyperanthus This genus has one representativegetation in which the plants t																							d in the dense

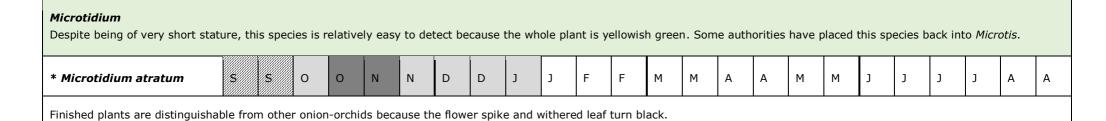
These orchids can be identified well after flowering because the stiff plants remain intact and the flowers maintain their shape for a long time.

Lyperanthus suaveolens

S

S

0



Genus and species			SP	RING					SUI	MMER					ΑU	гими					WI	NTER		
Microtis The green onion-like leaf is read because the flower spike with dr but these have a red leaf base (ied car	sules	remain																					
Microtis arenaria	S	S	0	0	N	N	D	D	J	J	F	F	М	М	А	А	М	М	J	J	J	J	А	А
A robust species favouring coas	tal low	land,	often h	ard to	disting	uish fro	om <i>M.</i>	unifolia).															
Microtis oblonga	S	S	O	O	N	N	D	D	J	J	F	F	М	М	А	А	М	М	J	J	J	J	А	А
Tends to flower somewhat later	than t	he oth	er spe	cies.																				
Microtis parviflora	S	S	0	0	N	N	D	D	J	J	F	F	М	М	А	А	М	М	J	J	J	J	А	А
Extends into higher elevations,	hence	has ar	n exten	ded flo	wering	period	i.				•	•	•	1	1				•	1	•	•		. .
Microtis unifolia	S	S	0	0	N	N	D	D	J	J	F	F	М	М	А	А	М	М	J	J	J	J	А	А
The most widespread species 1	المائمة			ui a bi a sa				ha	mamlas)ft.c		hawad :	- diat				اطم م	lanua			<u> </u>	

The most widespread species. It displays much variation and may prove to be a complex of species. Often encountered in disturbed places. The fields of leaves so often seen in slashed grassy playgrounds, parks and road verges invariably turn out to be *M. unifolia*. As with many species, seasonal conditions can affect flowering – this species has been observed flowering in mid-February in a low-lying area that was inundated until November, for example.

Genus and species			SPR	RING					S	UM	MER					AU'	ΓUMN					WI	NTER		
Orthoceras A genus with a single species. A species usually grows. Despite t																						y vege	tation	in whic	ch this
* Orthoceras strictum	S	S	0	0	N	N	D	D	J		J	F	F	М	М	А	А	М	М	J	J	J	J	А	А
The flowering period indicated is little later).	quite	e indic	ative but	the sp	ecific	flower	ing ti	me m	ay diff	er tl	hrougl	nout tl	ne Stat	e (e.g.	east t	o west	, with	some	evidend	e that	west c	oast pl	ants i	may flo	wer a
Paracaleana											G.														
A genus with one species in Tas	mania	a. A sir	ngle thin	reddis	h leaf	is fully	deve	eloped	long	befo	ore flow	wering	time	out is v	irtuall [,]	/ unde	tectabl	e amo	ong othe	er vege	tation.				T

Recently fertilised flowers can be readily detected and identified.

S

S

Pheladenia

Paracaleana minor

When flowering, this is a highly distinctive species (once included in *Caladenia*) because of its bright blue flowers and distinctive labellum. The leaves are indistinguishable from those of small-flowered *Caladenia* species.



Typically an early spring species with a peak in flowering in September. Can respond prolifically after high intensity fires.

Ν

Genus and species			SPI	RING					SU	MMER					AU [.]	TUMN					W	INTER		
Prasophyllum The single leaf is produced in eaformed. With experience, the en	nergen	nt leave	es may	be de	tected	prior t	o flowe																	
Prasophyllum abblittiorum	S	S	0	0	N	N	D	D	J	J	F	F	М	М	А	А	М	М	J	J	J	J	А	А
A recently described species from	n wet	heathl	and in	northw	vest Ta	ısmani	a, the	species	peak	s in flo	wering	from n	nid-Oc	tober t	o early	Nover	nber.							
Prasophyllum alpinum	S	S	0	0	N	N	D	D	J	J	F	F	М	М	А	А	М	М	J	J	J	J	А	А
A typical high elevation species,	usuall	y abov	/e 1,00	0 m. C	oes no	ot like 1	fire.	<u>'</u>	•			•		1	1	1	•	1		•	1	1	•	
* Prasophyllum amoenum	S	S	0	0	N	N	D	D	J	J	F	F	М	М	А	А	М	М	J	J	J	J	А	А
A high elevation species (600 m	at Snı	ug Tier	s, 1,10	00 m o	n Mt W	/ellingt	on), ap	pears	to like	distur	bance	out not	neces	sarily	ire. Flo	owerin	g can e	xtend	to mic	l-Marc	h in so	me yea	rs.	
Prasophyllum apoxychilum	S	S	0	0	N	N	D	D	J	J	F	F	М	М	А	А	М	М	J	J	J	J	А	А
Widespread in lowland areas (madditional taxa in the complex: to late	there a	appear																						
		S	0	0	N	N	D	D]	J	F	F	М	М	А	Α	М	М	1	J]	J	Α	A

Genus and species			SPR	RING					SUN	MER					ΑU	гими					WI	NTER		
Prasophyllum australe	S	S	Ø	6	N	N	D	D	J	J	F	F	М	М	А	А	М	М	J	J	J	J	А	А
A lowland summer species from	damp	heathl	ands. F	Respon	ıds wel	ll to hig	h inte	nsity fi	res the	prece	ding se	eason.							•					•
Prasophyllum brevilabre	S	S	0	0	N	N	D	D	J	J	F	F	М	М	А	А	М	М	J	J	J	J	А	А
Widespread in forests over a rar tends to flower from late Decem									ensity	fires, v	vith hig	jh num	bers a	ppeari	ng whe	ere the	re wer	e none	befor	e. A sv	vamp f	orm of	this s	pecies
* Prasophyllum castaneum	S	S	0	0	N	N	D	D	J	J	F	F	М	М	А	А	М	М	J	J	J	J	Α	А
An early summer species from d	amp co	oastal	heath i	n sout	hern T	asman	ia (so	far). Li	kes dis	sturbar	ce. Ca	n be co	nfused	d with	P. cond	cinnum								
Prasophyllum concinnum	S	S	0	0	N	N	D	D	J	J	F	F	М	М	А	А	М	М	J	J	J	J	А	А
A widespread species of peaty h sometimes 1,000s appearing in																in the	north)	. Thriv	es on	high ir	itensity	summ	ner fire	es with
* Prasophyllum crebriflorum	S	S	0	0	N	N	D	D	J	J	F	F	М	М	А	А	М	М	J	J	J	J	Α	А
A species of highland grasslands (the species-complex of green-b																					Januar	y and i	nto Fel	bruary
Prasophyllum elatum	S	S	O	0	N	N	D	D	3	3	F	F	М	М	А	А	М	М	J	J	J	J	Α	А

A widespread coastal lowland species, identifiable well before and after flowering due to its stature. Likes disturbance such as slashing and especially high intensity fires. Black plants resembling burnt teatree stems are often seen in recently burnt scrub.

Genus and species			SPI	RING					SUI	MER					AU	гими					WI	NTER		
* Prasophyllum favonium	S	S	О	0	N	N	D	D	J	J	F	F	М	М	А	А	М	М	J	J	J	J	А	A
A species from windswept wet h	eath ir	n north	nweste	rn Tasr	mania.	Likes f	ire.																	
Prasophyllum flavum	S	S	0	0	N	N	D	D	J	J	F	F	М	М	А	А	М	М	J	J	J	J	А	А
A summer species of forest and	woodla	and m	argins	at low	er elev	ations.														·				•
* Prasophyllum incorrectum	S	S	0	0	N	N	D	D	J	J	F	F	М	М	А	А	М	М	J	J	J	J	А	А
A northern Midlands grassland s strongly to grassland fires.	species	with	a very	short 1	floweri	ng peal	k arou	nd mic	I-Octob	er (int	o early	Nove	mber).	Likes	disturb	ance,	specific	cally sla	ashing	, and v	vould r	nost lil	kely re	spond
Prasophyllum incurvum	S	S	0	0	N	N	D	D	J	J	F	F	М	М	А	А	М	М	J	J	J	J	А	А
A highland species (above 1,00 plants most numerous a few ye than the Central Highlands. The	ars aft	er, wh	nile veg	etation	n is stil	ll fairly	open.	Surpri	singly,	it can	flower	as late	e as er	nd May										
* Prasophyllum limnetes	S	S	0	0	N	N	D	D	J	J	F	F	М	М	А	А	М	М	J	J	J	J	А	А
Only known so far from a shrub flowering date is 12 December b																		s at the	type	locatio	n indica	ated th	at the	mean
Prasophyllum lindleyanum	S	S	0	0	N	N	D	D	J	J	F	F	М	М	А	А	М	М	J	J	J	J	А	А
A lowland species, characterised	by its	overa	ıll brigh	nt gree	n appe	arance	and st	rong f	ragran	ce. Res	sponds	well to	fire.	•	•	•	•	•	-	•	•	•	•	•

Genus and species			SPI	RING					SUN	1MER					AUT	UMN					WI	NTER		
* Prasophyllum milfordense	S	S	0	0	N	N	D	D	J	J	F	F	М	М	А	А	М	М	J	J	J	J	А	А
A lowland species of open Eucal	yptus v	/iminal	lis fore	st, witl	n an ap	parent	ly very	restri	cted di	stribut	ion in s	outhe	rn Tasr	nania.	Likes	disturb	ance (e	e.g. rat	bit dig	ggings)	but m	ay not	like fi	re.
Prasophyllum mimulum	S	S	0	0	N	N	D	D	J	J	F	F	М	М	Α	А	М	М	J	J	J	J	А	A
A high elevation species from al	oove 70	00 m, v	with flo	owering	g depe	nding o	n actu	al elev	ation.	See co	mment	s unde	er P. in	curvun	1.									
* Prasophyllum olidum	S	S	0	0	N	N	D	D	J	J	F	F	М	М	Α	А	М	М	J	J	J	J	А	А
A northern Midlands grassland s	pecies	with a	very	short fl	owerin	g perio	d, beg	inning	when	P. inco	rrectun	at th	e same	site h	as larg	jely fini	ished.							
* Prasophyllum perangustum	S	S	0	0	N	N	D	D	J	J	F	F	М	М	Α	Α	М	М	J	J	J	J	А	A
Only known from a grassy open	forest	near H	lobart.	Flowe	ring ap	pears	to be s	timula	ted by	fire.														
* Prasophyllum pulchellum	S	S	0	0	N	N	D	D	J	J	F	F	М	М	А	А	М	М	J	J	J	J	А	А
A now poorly-understood specie and <i>P. apoxychilum</i> is poorly-un Tasmania (the issue with this is	dersto	od and	south	east Ta	smania	an reco	rds of	the for	mer m	ay be b	etter a	ttribut												
* Prasophyllum robustum	S	S	0	0	N	N	D	D	J	J	F	F	М	М	Α	А	М	М	J	J	J	J	А	А

Originally known (in recent times) from a grassy *Eucalyptus obliqua* forest near Latrobe where it flowers in early November, the species has also been detected at Bridgenorth, also in mid-November.

Genus and species			SPI	RING					SUI	MMER					AUT	UMN					WI	NTER		
Prasophyllum rostratum	S	S	0	0	N	N	D	D	J	J	F	F	М	М	А	А	М	М	J	J	J	J	А	А
A widespread species, mainly in heathland habitats. Apparently <i>P. atratum</i> is also unclear. The p	replace	ed by I	P. cond	innum	in sou	ithern [†]	Tasma	nia, ali	though	the re	elations	hip be	tween	the tw										
* Prasophyllum secutum	S	S	0	0	N	N	D	D	J	J	F	F	М	М	А	А	М	М	J	J	J	J	А	А
A northern species from grassy in the absence of fire are extren			Emer	gence a	and flo	wering	is high	nly dep	enden	t on a	high int	ensity	summ	er fire	the pre	eceding	seaso	on, so r	nuch s	o that	chance	es of fi	nding	olants
Prasophyllum sphacelatum	S	S	0	0	N	N	D	D	J	J	F	F	М	М	А	А	М	М	J	J	J	J	А	А
Somewhat similar in appearance and Cradle Mountain area (1,10 P. sphacelatum, P. tadgellianum	00 m).	There	is con	fusion	in the	subalp	ine gr	een-br	own flo	wered														
Prasophyllumsp. Arthurs Lake	S	S	0	0	N	N	D	D	J	J	F	F	М	М	А	А	М	М	J	J	J	J	А	А
A poorly-known high elevation s the uncertainty over taxonomy,																	mber a	ind Jan	uary a	s the f	lowerir	ng peri	od but	give

Available evidence suggests that this is a late summer to early autumn species with most collections from the Storys Creek area in mid to late February. There is some confusion in the records of this species from other sites (e.g. Cluan Tiers) suggesting an earlier flowering time but this requires resolution. The relationship between several species in the *P. truncatum* species-complex requires resolution and this may affect the flowering period of different species.

Genus and species			SPI	RING					SUM	1MER					AUT	TUMN					wi	NTER		
* Prasophyllum tadgellianum	S	S	0	0	N	N	D	D	J	J	F	F	M	М	А	А	М	М	J	J	J	J	A	А
Known from a handful of places	in the	Centra	al Highl	lands,	floweri	ng in J	anuary	aroun	d 700 i	m elev	ation b	ut a m	onth la	ater in	higher	and m	ore ex	posed	places					
* Prasophyllum taphanyx	S	S	0	0	N	N	D	D	J	J	F	F	М	М	А	А	М	М	J	J	J	J	А	А
A small grassland leek-orchid fo	und in	the no	rthern	Midlar	nds, wh	nere it	has a v	ery br	ief flow	ering	period	(mid-C	ctober	to ear	ly Nov	ember).			1	I			
Prasophyllum truncatum	S	S	0	0	N	N	D	D	J	J	F	F	М	М	А	А	М	М	J	J	J	J	А	А
The confused taxonomy of the F	P. truno	catum (comple	ex and	its occ	urrence	e in va	rious h	abitat 1	types a	nt a ran	nge of e	elevati	ons pe	rhaps (explain	s the v	ery wi	de flov	vering	period	of this	specie	± ≥s.
* Prasophyllum tunbridgense	S	S	0	0	N	N	D	D	J	J	F	F	М	М	А	А	М	М	J	J	J	J	А	А
A lowland grassland species with	n restr	icted d	istribu	tion in	the no	rthern	Midlan	ds.	I	I	l	1		1	l	1	I	I	1	1	I	1		

Pterostylis

Pterostylis species may grow as solitary individuals reproducing solely from seed, or form colonies by vegetative reproduction. At some stage in their life cycle all species produce a rosette of leaves, which may be present at the time of flowering in some species, while in others the rosette may form after flowering and wither again before the next season. The presence or absence of a rosette at flowering is an important character when searching for greenhoods and also aids in identification. Some rosettes are large and easy to spot (e.g. P. cucullata) and such plants can be counted even in the absence of flowers, while in other species rosettes are tiny and difficult to detect (e.g. P. aphylla). To the experienced eye the size, arrangement, colour and texture of rosette leaves are sufficient for identification of the species, or at least groups.

Pterostylis alata	S	S	О	0	N	N	D	D	J	J	F	F	М	М	Α	Α	М	М	J	J	J	J	А	Α
-------------------	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---

This is one of Tasmania's true winter greenhoods.

Genus and species	SPRING								SUI	MMER					AUT	гими		WINTER						
Pterostylis aphylla	S	S	0	0	N	N	D	D	J	J	F	F	М	М	A	А	М	М	J	J	J	J	A	А
he species in the complex comprising <i>P. aphylla</i> , <i>P. parviflora</i> , <i>P. atriola</i> and <i>P. uliginosa</i> can be identified by floral features but also by a combination of fleshiness of the plants, habitat arowering time. Flowering plants generally without rosettes but these appearing shortly after. <i>P. aphylla</i> is a summer greenhood with a long flowering period centred around November nid-January.																								
Pterostylis atrans	S	S	0	0	N	N	D	D	J	J	F	F	M	M	A	A	М	М	J	J	J	J	А	А
A summer greenhood flowering	late Ja	nuary	at the	higher	end of	f its ele	vation	al rang	e.					<i>x</i>	<i>N </i>	<i>x</i>	<i>a</i>	1	•					
* Pterostylis atriola	S	S	0	0	N	N	D	D	J	J	F	F	М	М	А	А	М	М	J	J	J	J	А	А
See also comments under <i>P. aph</i> start flowering in March) by clos																can b	e readi	ly diffe	rentiat	ted fro	m <i>P. pa</i>	arviflor	a (whi	ch car
* Pterostylis commutata	S	S	0	0	N	N	D	D	J	J	F	F	М	М	A	А	М	М	J	J	J	J	А	А
A mid-summer greenhood of gra although usually withering. Can									r arou	nd Chr	istmas	time, v	when th	ne surr	oundin	g vege	etation	has dri	ed off.	A rose	ette is p	oresent	t at flo	wering
	S	S	0	0	N	N	D	D			F	F	М	М	Α	Α	M				·			A

A late winter/early spring species forming clonal colonies (some seasons start in mid-May). Rosettes present at flowering time. This species can be identified from recently finished flowers if the distinctly notched labellum apex can be dissected out. Can hybridise with *P. alata* to produce what is loosely known as *P. x toveyana* (although strictly this entity is described from a hybrid between *P. concinnum* and a non-Tasmanian species), typified by the leafy stem and slightly notched labellum.

Genus and species	SPRING						SUMMER								AUT	TUMN		WINTER						
* Pterostylis cucullata	S	S	0	0	N	N	D	D	J	J	F	F	М	М	А	А	М	М	J	J	J	J	А	Α
A late spring species that forms massive colonies but is surprisingly difficult to detect because plants can occur amongst dense grass and beneath low coastal scrub. Once found, however in the absence of flowering plants, the distinctive rosettes can be easily counted. There is a peak in flowering between mid-October and mid-November but often within one colonies are plants from early bud through to fully fertilised flowers. The most recent colony detected near Temma flowers as early as mid-August.																								
Pterostylis curta	S	S	0	0	N	N	D	D	J	J	F	F	М	М	А	А	М	М	J	J	3	1	A	А
This is an early spring species, forming clonal colonies. Rosettes present at flowering time.																								
Pterostylis decurva	S	S	Ø	Ø	N	N	D	D	J	J	F	F	М	M	A	А	М	М	J	J	J	J	Α	А
A summer/autumn greenhood w	summer/autumn greenhood with a large elevational range and flowering period.																							
Pterostylis dubia	S	S	0	0	N	N	D	D	J	J	F	F	М	М	А	А	М	М	J	J	J	J	Α	А
A higher elevation leafy greenho	ood for	ming s	mall c	lonal co	olonies	, flowe	ring in	summ	er.	•		•	•		1	•	•		•	1	•		1	-
* Pterostylis falcata	s	s	o	o	N	N	D	D	J	J	F	F	М	М	А	А	М	М	J	J	J	J	А	А
There is confusion between <i>P. f.</i> occurrences of <i>P. falcata</i> in the <i>P. falcata</i> is regarded as flowering	north	west p	roved	to be	P. lusti	<i>ra</i> . Exa	minati	on of I	herbar	ium sp	ecimer	s conf	irmed	the pr	esence	of <i>P.</i>	falcata	from	northe	rn Tas	mania			
Pterostylis foliata	S	S	0	0	N	N	D	D	J	J	F	F	М	М	А	А	М	М	J	J	J	J	A	A
A late spring greenhood but wit	h an e	xtende	d flowe	ering p	eriod a	s it occ	urs fro	m low	land u	p to 1,	000 m	elevati	on.											

Genus and species			SPF	RING					SUI	MMER					AUT	TUMN					WI	NTER		
Pterostylis furcata	S	S	О	0	N	N	D	D	J	J	F	F	М	М	А	А	М	М	J	J	J	J	А	А
See also under <i>P. falcata. P. furd</i> Esk River basin. The plants flow population near Beaconsfield is o	ver fro	m earl	y Dece	mber																				
* Pterostylis grandiflora	S	S	0	0	N	N	D	D	J	J	F	F	М	М	А	А	М	М	J	J	J	J	А	А
A true winter greenhood with a This species is adversely affecte			- .	•	_			•	Augus	t. With	ering fl	owers	are rea	adily ic	lentifia	ble bec	ause o	f the h	ighly (distinct	ive col	ora-like	e large	hood.
Pterostylis x ingens	s	5	o	O	N	N	D	D	J	J	F	F	М	М	А	А	М	М	J	J	J	J	A	A
An apparent natural hybrid betw (at least in Tasmania), when <i>P.</i> where <i>P. falcata</i> has never been where the taxon is better known	<i>falcata</i> record	is in f	flower	(see a	so con	nments	under	P. falo	cata ar	nd <i>P. fu</i>	urcata)	. The o	nly tw	o confi	rmed o	collection	ons are	from	Decen	nber, b	oth fro	m the	West 7	Tamar
Pterostylis lustra	S	S	0	0	N	N	Ď	D	3	3	F	F	М	М	А	А	М	М	J	J	J	J	А	А
This new species was described flowered in early November.	in 200	6 and	is a sm	nall loo	kalike	of <i>P. fa</i>	alcata.	The we	ell-kno	wn occ	currenc	es of <i>P</i>	. falcat	<i>ta</i> in th	ne nort	hwest ¡	oroved	to be	P. lust	ra. Co	nfirmed	d plant	s of P.	lustra
Pterostylis melagramma	S	S	0	0	N	N	D	D	J	J	F	F	М	М	А	А	М	М	3	3	3	1	A	А

This is one of four species in the *P. longifolia* species-complex in Tasmania, comprising *P. melagramma*, *P. stenochila*, *P. tunstallii* and *P. williamsonii*. They are characterised by spreading linear stem leaves and the absence of rosettes at flowering time. They flower from winter to early spring, and are easily distinguished by the colour and shape of the mature labellum. Recently fertilised flowers and budding flowers can be dissected and the labellum examined to make an identification. The peak flowering time is late August to end of September but can extend into the latter parts of spring at some sites.

Genus and species			SP	RING					SUI	MMER					AU ⁻	TUMN					WI	NTER		
Pterostylis mutica	S	S	o	0	N	N	b	D	J	J	F	F	М	М	А	А	М	М	J	J	J	J	A	A
A species of uncertain status in Species in the <i>P. mutica</i> specie require close examination of the occasionally co-occur.	es-comp	olex (P	. mutic	ca, P. r	ubenad	chii, P.	wapst	rarum)	and F	. cycni	ocepha	la spec	cies-co	mplex	(P. pra	itensis,	, P. zie	geleri)	are si	milar i	n gene	ral app	earan	ce an
Pterostylis nana	S	S	0	0	N	N	D	D	J	J	F	F	М	М	А	А	М	М	J	J	J	J	Α	А
A spring greenhood forming clo	onal col	onies,	with ro	settes	preser	nt at flo	wering	j time.	•	•			•	ı	•	•	•	1		•		•		
Pterostylis nutans	S	S	0	0	N	N	D	D	J	J	F	F	м	M	A	A	м	м	3	1	J	J	A	А
This species has one of the lor produce flowers in any one sea		owerin	g perio	ods of	Pterost	<i>ylis</i> in	Tasma	ınia, of	ten flo	wering	durin	g winte	er and	spring	. It for	ms ex	tensive	clona	colon	ies, bι	ıt only	some	of the	plant
Pterostylis parviflora	S	S	0	0	N	N	D	D	J	J	F	F	М	M	A	A	М	М	J	J	J	J	А	А
See also comments under <i>P. a</i> , March) by checking the hood fo											lowers	of <i>P. p</i>	arviflo	<i>ra</i> can	be rea	dily di	fferent	iated f	rom <i>P.</i>	atriola	a (whic	ch can	still flo	wer i
Pterostylis pedoglossa	S	S	0	0	N	N	D	D	J	J	F	F	М	M	A	A	М	М	3	3	J	J	А	А
A lowland (mainly) autumn-flo	wering	greenh	nood fo	rming	clonal	colonie	s with	rosette	s pres	ent at	floweri	ng.										•	•	
											1		1		1						V/////////////////////////////////////	(X///////////	%I	$\overline{}$

A distinctive small greenhood forming clonal colonies with rosettes present at flowering. Flowering time starts late winter near the coast, early spring further inland. The species has a long flowering period because it occurs in a wide range of habitats from sea level to higher elevations.

Genus and species			SPF	RING					SUI	MER					AUT	UMN					WI	NTER		
Pterostylis plumosa	S	S	0	0	N	N	D	D	J	J	F	F	М	М	А	А	М	М	J	J	J	J	A	A
The larger of two distinctive gree	nhooc	ds with	yellow	v plum	ose lab	ellum	(the ot	her <i>is</i> .	P. tasn	nanica)) and a	rosett	e at flo	wering	time.			•		•	•	1	•	<i>8</i> ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
* Pterostylis pratensis	S	S	0	0	N	N	D	D	J	J	F	F	М	М	А	А	М	М	J	J	J	J	А	А
A highland greenhood similar to t <i>P. cycnocephala</i> species-complex small flowers and a withering rose	(P. p	oratens	sis, P. z	ziegele	ut flowe ri) are	ering la similai	iter be	cause oneral a	of the ppeara	elevation ance ar	on. Spe nd requ	ecies in iire clo	the <i>P.</i> se exa	<i>mutic</i> minati	a speci on of t	es-con he labe	nplex (ellum a	<i>P. mut</i> ippend	<i>ica, P.</i> age. T	ruben hey ar	<i>achii, F</i> e shor	. waps t fleshy	<i>trarun</i> plant	ı) and s with
* Pterostylis rubenachii	S	S	0	0	N	N	D	D	J	J	F	F	М	М	А	А	М	М	J	J	J	J	А	А
A species of restricted distribution	n in th	ne nort	:hwest,	, with a	short	peak i	n flowe	ering. S	See als	o comi	ments	under <i>l</i>	P. prate	ensis.				l		ı		1		
* Pterostylis sanguinea	S	S	0	0	N	N	D	D	J	J	F	F	М	М	A	A	M	M	J	J	J	J	А	А
A winter-flowering greenhood fror is mainly in late June to late July.		far no	rtheast	and B	ass Str	ait isla	nds dis	stinguis	shed b	y its lar	ge red	flowers	s and l	eafy st	em, bu	t roset	tes abs	ent at	flower	ing tin	ne. In T	asman	ia, flov	verinç
T																								T
Pterostylis scabrida	S	s	0	0	N	N	D	D	J	J	F	F	М	М	Α	Α	М	М	J	J	J	J	Α	Α
Pterostylis scabrida A short sturdy greenhood mainly at high elevations.																								

Genus and species			SP	RING					SUI	MMER					AUT	UMN					WI	NTER		
Pterostylis stenochila	S	S	0	0	N	N	D	D	J	J	F	F	М	М	А	А	М	М	J	J	J	J	А	А
See also comments under <i>P. me</i> same time).	elagrar	nma. T	The pea	ak flow	ering t	ime is	July to	Augus	st (per	haps a	little e	arlier t	han th	e peak	of P. r	nelagr	amma,	, althou	ugh the	ey do o	co-occu	ır and	flower	at the
Pterostylis tasmanica	S	S	0	0	N	N	D	D	J	J	F	F	М	М	А	А	М	М	J	J	J	J	А	А
The smaller of two distinctive g	reenho	ods wi	th yello	ow plu	mose la	bellum	the o	other <i>is</i>	s P. plu	umosa)	and a	rosett	e at flo	wering	time.	It has	a coas	tal dist	ributio	n.				
* Pterostylis tunstallii	S	S	0	0	N	N	D	D	J	J	F	F	М	М	А	А	М	М	J	J	J	J	А	А
See also comments under P. me	elagran	nma. P	. tunst	<i>allii</i> is	only kn	own fr	om the	easte	rn Bas	s Strait	island	s, whe	re it flo	owers i	n throu	ighout	July to	Nove	mber,	someti	mes as	late a	s Dece	mber.
Pterostylis uliginosa	S	S	0	0	N	N	D	D	J	J	F	F	М	M	Α	А	М	М	J	J	J	J	А	Α
See also comments under P. ap	hylla. 1	In Tasr	mania <i>i</i>	P. uligi	nosa is	a sum	mer-fl	owerin	g gree	nhood	with a	short f	lowerir	ng peri	od.		•							
* Pterostylis wapstrarum	S	S	0	0	N	N	D	D	J	J	F	F	М	M	Α	А	М	М	J	J	J	J	А	Α
A lowland greenhood of inland of	grassy	habita	ts and	somet	imes co	o-occur	ring w	ith <i>P. z</i>	riegele	ri. See	also co	mmen	its und	er <i>P. p</i>	ratensi	s	_							
Pterostylis williamsonii	S	S	0	0	N	N	D	D	J	J	F	F	М	М	Α	А	М	М	J	J	J	J	А	A
See also comments under P. me	elagran	nma. F	loweri	ng occ	urs in s	pring,	mainly	in July	y to Se	eptemb	er, but	can ex	ktend i	nto Oc	tober a	t some	sites	in som	e year	s.				

Genus and species			SPF	RING					SUN	1MER					AUT	UMN					WII	NTER		
* Pterostylis ziegeleri	S	S	0	0	N	N	D	D	J	J	F	F	М	М	А	А	М	М	J	J	J	J	Α	А

This species now includes both coastal populations (e.g. Cape Portland, Arthur River area, South Arm) and inland populations (which used to be known as *P. cycnocephala*) and occasionally co-occurs with *P. wapstrarum*. See also comments under *P. pratensis*.

Pyrorchis

This genus is represented by a single species in Tasmania. The name refers to the very strong response to fire. The leaves and flowers are most noticeable in burnt habitats, sometimes densely occupying vast areas of ground laid bare by fire.

Pyrorchis nigricans	s	S	0	0	N	N	D	D	J	J	F	F	М	М	Α	А	М	М	J	J	J	J	A	A		111111111111111111111111111111111111111
---------------------	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	--	---

A distinctive spring-flowering orchid, flowering profusely after disturbance, most notably fire, sporadically in other years. In the absence of flowers, colonies are easily detected by the large, leathery, blotched, round leaves that already appear in autumn.

Sarcochilus

This is a genus of epiphytic evergreen orchids, represented by a single species in Tasmania. While it is easier to detect the plants when in full flower, non-flowering plants are easy to find by looking for the dark green lanceolate leaves growing in the shape of a star and clinging to the bare trunks of the host. The long stems and roots adhering closely to the host are also good pointers. The plants are often at about eye level so scanning the canopy is not required.

Sarcochilus australis	S	s	0	0	N	N	D	D	J	J	F	F	М	М	А	А	М	М	J	J	J	J	Α	Α	l
-----------------------	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---

This species occurs in moist gloomy gullies and forests with high humidity. A very long flowering time is indicated although most would consider the species to flower mainly in November and December. There have been recent reports of the species still in flower in late March (24-26) in northeast Tasmania.

Genus and species		SP	RING			SU	MMER				AU	TUMN					WI	NTER			
Spiranthes This genus is represented in 3 still uncertain but it occurs at	higher e	levations. U	nless ir	n flower	the l	oright pink sp	iral inf	loresce	nce is	unmis	akable), the	plants	are vir	tually i	mposs	ible to	detect	becau	se the	basal	
narrow leaves is usually hidde	en among	gst similarly S	coloure	ed grass	ses, se	edges and rus	hes. W	/hile the	e plant	s can	e evergreen,	some	may b	M	leafles M	s and	dorma J	nt in d	ry year	A	А
This species grows in the mar for some weeks after).	gins of lo	owland epher	meral s	wamps	and m	narshes and is	best s	searche	ed for i	n the f	lowering peri	od (bu	t fertilis	sed infl	oresce	nces re	emain :	standir	g and	recogr	nisabl
Spiranthes alticola	S	s o	0	N	N	ם ם	3	J	F	F	м м	A	A	М	М	J	J	J	J	Α	Α
A newly recognised species, p its flowering time in this Stathave been made in late Janua	e is not v	well known.	It is ve	ry diffic	cult to	determine the	e two s	species	based	on he	rbarium spec	imens									

Thelymitra

Thelymitra species are generally mid-spring to early summer flowerers, a little later at higher elevations. All species have a single basal leaf that appears months before flowering but leaves are rarely of assistance in identification (except for a few distinctive species and to those familiar with the genus). The species can be identified by examination of the column but this requires some experience. The columns of young buds are usually not helpful as they are often not fully developed and lack colour. All species open their flowers in response to warm sunny weather, some readily, others tardily. In poor weather, quite a few self-pollinate without ever opening. Once fertilised, *Thelymitra* plants can persist well into the next season with brown empty capsules but identification at this stage is not possible (except for a few highly distinctive species such as *T. aristata*). Many species respond well to fire (slashed fire breaks and road verges are also a good environment to search).

A pale-blue species, typically from rocky ground in the northwest wet heathlands.

Genus and species			SPI	RING					SUI	MMER					ΑU	гими					WI	NTER		
* Thelymitra antennifera	S	S	0	0	N	N	D	D	J	J	F	F	М	М	А	А	М	М	J	J	J	J	А	А
One of the few yellow sun-orchi 1 October is a good guideline fo										n othe	State	s it ma	y flowe	er from	July t	hrough	to De	cembe	r but ir	n Tasm	ania a	week 6	either s	side o
Thelymitra arenaria	S	S	0	0	N	N	D	D	J	J	F	F	М	М	А	А	М	М	J	J	J	J	А	А
One of the species in the <i>T. pauc</i> from <i>T. bracteata</i> remains comp																			ame Io	cation	. Separ	ation o	of <i>T. ar</i>	enaria
Thelymitra aristata	S	S	0	0	N	N	D	D	J	J	F	F	М	М	А	А	М	М	J	J	J	J	А	А
The tallest and sturdiest species are shorter than usual. It has a positive identification can be ma	fairly l	ong flo	owering	perio	d but w	ith an	appare	ent pea	k in N	ovemb	er, per	haps a	little la	ater in										
* Thelymitra atronitida	S	S	0	o	N	N	D	D	J	J	F	F	М	М	А	А	М	М	J	J	J	J	А	А
One of the species in the <i>T. pau</i>	ciflora	specie	es-com	plex ar	nd only	recent	ly reco	orded f	or Tası	mania.	So far	early	Novem	ber ap	pears t	o be tl	ne bes	t surve	y wind	ow.	•	•		•
* Thelymitra benthamiana	S	s	o	0	N	N	D	Ď	J	J	F	F	М	М	А	А	М	М	J	J	J	J	А	А
Impossible to confuse with any	other T	Гаѕта	nian sp	ecies.	Record	ed fror	n two	colonie	s on F	linders	Island	only,	where	they b	egin flo	owering	g in th	e first v	week o	f Nove	mber.			
* Thelymitra bracteata	S	s	O	O	N	N	D	Ð	J	J	F	F	М	М	А	А	М	М	J	J	J	J	А	А
One of the species in the <i>T. pau</i> that this site also appears to ha																	ering	specim	ens in	the fir	st week	of No	vembe	r note

Genus and species			SP	RING					SUN	1MER					AU	гими					WI	INTER		
Thelymitra brevifolia	S	S	o	o	N	N	D	D	J	J	F	F	М	М	А	А	М	М	J	J	J	J	A	А
One of the species in the <i>T. pa</i> with a purplish tinge.	uciflora	specie	es-com	plex aı	nd still	poorly	-knowi	n. It is	one of	the fe	w spec	ies tha	nt can	be ider	ntified	with re	asonal	ole cert	ainty 1	from th	ne scat	rous,	wide fl	at leaf
Thelymitra carnea	S	S	0	0	N	N	D	D	J	J	F	F	М	М	А	А	М	М	J	J	J	J	А	А
An uncommon species often co	nfused	with T	. rubra	, distir	nguishe	ed from	it by t	he ere	ct and	slende	r colun	nn arm	ıs, flow	ver colo	our (re	dder) a	nd tar	dily op	ening	flowers	5.		-1	
Thelymitra circumsepta	S	S	0	0	N	N	D	D	J	J	F	F	М	М	А	А	М	М	J	J	J	J	А	А
A late flowering species with a	wide el	evatior	n range	e (sea l	level to	700 m	n). Hig	hland ¡	oopulat	ions fl	ower la	ter in	the ind	licated	period									•
Thelymitra cyanea	S	S	0	0	N	N	D	D	J	J	F	F	М	М	Α	А	М	M	J	J	J	J	А	А
One of the later flowering spec T. erosa is just about finished.						ised wit	th <i>T. e</i>	rosa al	though	the co	olumn	s disti	nctive.	Where	e the t	wo spe	cies gr	ow tog	ether,	T. cya	nea sta	arts flo	wering	, when
Thelymitra erosa	S	S	0	0	N	N	D	D	J	J	F	F	М	М	А	А	М	М	J	J	J	J	А	А
One of the later flowering speci T. erosa is just about finished.						sed wit	h <i>T. c</i> y	anea a	- althoug	h the o	column	is dist	inctive	. Wher	e the t	wo spe	cies gr	ow tog	ether,	T. cya	nea st	arts flo	wering	, when
Thelymitra exigua	S	S	O	O	N	N	D	D	J	J	F	F	М	М	А	А	М	М	J	J	J	J	А	А
One of the species in the <i>T. pa</i>	uciflora	specie	s-com	plex ar	nd still	poorly-	known	ı. Tasm	nanian	record	s show	a peal	k in flo	wering	in the	first h	alf of I	Noveml	oer.	•	•			-

Genus and species			SP	RING					SUI	MMER					AUT	UMN					WI	NTER		
Thelymitra flexuosa	S	S	0	О	N	N	D	D	J	J	F	F	М	М	А	А	М	М	J	J	J	J	А	А
One of the few Tasmanian spe Flowering is strongly stimulated			ow flo	wers.	Reason	ably p	ositive	identi	ficatio	n can b	e mad	e from	fertili	sed sp	ecimer	ns beca	ause o	f the t	hin an	d wiry	zig-za	gging	flower	stem
Thelymitra hiemalis	S	S	0	0	N	N	D	D	J	J	F	F	М	М	А	А	М	М	3	J	1	1	A	A
Only recorded once to date fro flowering from June to August.	n a sin	gle flo	wering	specir	men ne	ar Mar	gate, s	outhea	st Tas	mania,	record	led on	29 Jur	ne 2012	2 i.e. n	nid-wir	nter. O	n main	land A	ustrali	a, this	specie	s is re	porte
* Thelymitra holmesii	S	S	0	0	N	N	D	D	J	J	F	F	М	М	Α	А	М	М	J	J	J	J	А	А
A later flowering species in the flowers only open on very warr				es-con	nplex, o	disting	uished	by dar	k blue	flowe	s and	untidy	cream	or ye	llow ha	air tuft	s. Sea	rching	for thi	s spec	ies can	be di	fficult	as th
Thelymitra imbricata	S	S	0	0	N	N	D	D	J	J	F	F	М	М	А	А	М	М	J	J	J	J	А	А
Largely known from grassy hab half-closed flowers to have a sv	itats in vollen a	the no	orthern ance.	n Midla	nds but	: may o	occur e	lsewhe	ere. A	ield ch	aracter	is tha	t the fl	ower s	egmer	ts are	broad	and ov	erlapp	ing, ca	using a	advano	ced bu	ds an
Thelymitra improcera	S	S	0	0	N	N	D	D	J	J	F	F	М	М	Α	А	М	М	J	J	J	J	А	А
				•							•	•						•				•	•	
An as yet poorly-known species	from \	Victoria	and k	King Is	land, aı	nd mor	e rece	ntly no	rthwe	st Tasn	anian	mainla	nd and	l south	ern Ta	smania	a, with	peak f	lowerir	ng in N	ovemb	er.		

Genus and species			SP	RING					SUI	MMER					AUT	UMN					WI	NTER		
Thelymitra x irregularis	S	S	0	О	N	N	D	D	J	J	F	F	М	М	А	А	М	М	J	J	J	J	А	А
Described as a natural hybrid b	ribed as a natural hybrid between <i>T. ixioides</i> and <i>T. carnea</i> , but										ery sir	nilar h	ybrids	involvi	ng <i>T. j</i>	uncifol	ia and	T. rubi	ra.					1
Thelymitra ixioides	S	S	0	0	N	N	D	D	J	J	F	F	М	М	А	А	М	М	J	J	J	J	А	А
This species has been a dumpir	g grou	nd for	any sp	otted	sun-orc	hid, es	speciall	y T. ju	ncifolia	a, but t	hey ca	n be se	eparate	ed by c	olumn	details	(if the	two s	pecies	are ac	cepted	as se	parate).
* Thelymitra jonesii	S	S	0	0	N	N	D	D	J	J	F	F	М	М	А	А	М	М	J	J	J	J	А	А
Therymica Jonesii																								
The broad flowering period indisearch window of about a week buds, a character that can be u	cated is	s based	d on th	ne old o	concept r. The c	column	is unn	nistaka	ble an	d can l	oe used	d to ide	entify i	mmatu	re and	recent	ly finis	hed flo	owers.	This s	pecies	also h	as dist	nctive
The broad flowering period indi- search window of about a week	cated is	s based	d on th	ne old o	concept r. The c	column	is unn	nistaka	ble an	d can l	oe used	d to ide	entify i	mmatu	re and	recent	ly finis	hed flo	owers.	This s	pecies	also h	as dist	nctive
The broad flowering period indisearch window of about a week buds, a character that can be u	cated is either sed to	s based side of determ	d on the factor of the factor	ne old devembers	concept r. The c withou	column it disse	is unnecting a	nistaka addition D	ible an nal pla	d can I nts. Th	e used is spec	to ide	entify in sponds M	mmatu strong M	re and ly to fi	recent re and A	ly finis emerg	shed flo ence is	owers.	This s	pecies	also h	as disti uent y	nctive ears.
The broad flowering period indisearch window of about a week buds, a character that can be u Thelymitra juncifolia	cated is either sed to	s based side of determ	d on the factor of the factor	ne old devembers	concept r. The c withou	column it disse	is unnecting a	nistaka addition D	ible an nal pla	d can I nts. Th	e used is spec	to ide	entify in sponds M	mmatu strong M	re and ly to fi	recent re and A	ly finis emerg	shed flo ence is	owers.	This s	pecies	also h	as disti uent y	nctive ears.
The broad flowering period indisearch window of about a week buds, a character that can be u Thelymitra juncifolia This species was previously incl	cated is either sed to	s based side of determ	d on the factor of the factor	oe old devembers of the control of t	concept r. The converse without N apparer	N ntly ma	D D D	D D	ible an nal pla	d can I nts. Th	e used is spec	to ide lies res F also d	entify in sponds M comme	mmatu strong M nts un	re and ly to fi A der T.	recent re and A ixioides	emerg	shed flo ence is M	owers.	This s	pecies	also h	as disti uent y	nctive ears.

Genus and species			SP	RING					SU	MMER					AU ⁻	гими					W	NTER		
* Thelymitra malvina	S	S	0	0	N	N	D	D	J	J	F	F	М	М	А	А	М	М	J	J	J	J	А	А
Most flowering records are from	the fi	rst half	of No	vembe	r.					ı	ı	1	<u> </u>	ı	ı		1	I		1	ı	ı	1	
Thelymitra x merraniae	S	S	0	0	N	N	D	D	J	J	F	F	М	М	А	А	М	М	J	J	J	J	А	А
This occasional cross between 7	r. ixioid	des/jun	cifolia	and <i>T.</i>	nuda i	s poorl	ly-knov	wn fron	n Tasr	nania,	with ju	st a sir	ngle re	cord fr	om ear	ly Nov	ember		•		II.	•		<u> </u>
* Thelymitra mucida	S	S	0	0	N	N	D	D	J	J	F	F	М	М	А	А	М	М	J	J	J	J	А	А
The presence of this species in 19 November 2010. Older collection																								
19 November 2010. Older collec	S S	span th	e Nove	o O	N N	N Decer	nber pe	D D	Based J	on Vict	orian a	nd Tas	maniai M	M M	A A	A	M M	M	e the	best ti			this s	pecies
19 November 2010. Older collect Thelymitra nuda	S S	span th	e Nove	o O	N N	N Decer	nber pe	D D	Based J	on Vict	orian a	nd Tas	maniai M	M M	A A	A	M M	M	e the	best ti			this s	pecies
19 November 2010. Older collect Thelymitra nuda A large-flowered species with fr	S S S S S S S S S S S S S S S S S S S	pan th	O O paucit	O O o o o o o o o o o o o o o o o o o o	N n confu	N N N N N N N N N N N N N N N N N N N	D th mer	D D D D D D D D D D D D D D D D	J J J J J J J J J J J J J J J J J J J	T. paud	F F F nd for	F F any blu	M S-comp M ue, nor	M M M M M M M M M M M M M M M M M M M	ds, No A ost of A ed, sm	A which t	M M M wered s	M open t	J ardily	J).	J J	J	A A	A A

One of the species in the *T. pauciflora* species-complex and still poorly-known from Tasmania, where most confirmed records are from late October.

Genus and species			SPI	RING					SUI	MMER					AUT	UMN					WI	NTER		
Thelymitra polychroma	S	S	0	0	N	N	D	D	J	J	F	F	М	М	А	А	М	М	J	J	J	J	А	А
A species with a distinctive and	stron	gly stin	nulated	by fire	e, with	a peal	c in No	vembe	r.	•	•	1	1	•	•	-1								
Thelymitra rubra	S	S	0	0	N	N	D	D	J	J	F	F	М	М	А	Α	М	М	J	J	J	J	А	А
A common and widespread spec	ies. It	is easi	ly reco	gnised	by its	bright	pink fl	owers	but wa	itch for	T. car	nea (se	ee also	under	that s	pecies)	. Flow	ering s	trongly	/ stimu	lated b	y fire.	•	
Thelymitra silena	S	S	0	0	N	N	D	D	J	J	F	F	М	М	А	Α	М	М	J	J	J	J	А	А
A species sometimes as tall and	sturdy	as th	e well-	known	T. aris	<i>tata</i> bu	ıt easil	y distir	nguish	ed by t	he dist	inctive	colum	n, with	peak	floweri	ng in N	lovem	ber.	1	1	J		
Thelymitra simulata	S	S	0	0	N	N	D	D	J	J	F	F	М	М	А	А	М	М	J	J	J	J	А	А
Apparently a highland species k	nown i	n Tasn	nania f	rom M	athinna	Plains	, wher	e it flo	wers in	n early	Decem	ber, al	though	n there	are no	w also	sever	al susp	ected	lowlan	d occu	rences	5.	-1
Thelymitra spadicea	S	S	0	0	N	N	D	D	J	J	F	F	М	М	А	А	М	М	J	J	J	J	А	А
A poorly-known species, so far i	recorde	ed in th	ne nort	hwest	and no	rth coa	st, wh	ere it f	lowers	in the	first h	alf of N	loveml	oer.	ı		ı	1				1		.1
Thelymitra sparsa	S	S	0	0	N	N	D	D	J	J	F	F	М	М	А	А	М	М	J	J	J	J	А	А
A spotted high elevation species	with	sparse	hair tu	ıfts, so	far on	y knov	vn fron	n Snug	Tiers	and Mt	Wellin	gton, v	where i	it flowe	ers fron	n mid-	Decem	ber to	early .	Januar	y.	1	1	

Genus and species		SPF	RING			SUI	MER			AUT	гими			WI	NTER	
Thelymitra x truncata This is a natural hybrid betweer different columns, depending or																
match that of its local parents.																J. ,

Thynninorchis

A genus of two species, both leafless saprophytes that reproduce only from seed. The tiny tubers are dormant during late winter and spring and flowering occurs in summer. The species are highly cryptic and extremely difficult to detect during routine surveys even at the right time of year.

* Thynninorchis huntiana	S	S	О	0	N N B D	J	3 F F M M A	Α	М	М	J	J	J	J	Α	А	
--------------------------	---	---	---	---	---------	---	-------------	---	---	---	---	---	---	---	---	---	--

The long flowering period indicated is based on Australian mainland information, where it is largely a highland, even alpine species. The single Tasmanian record is from a small lowland site on Flinders Island on 3 January 1972, but it has not been seen there since. Any searches should probably be conducted two weeks either side of New Year's Day.

*Thynninorchis nothofagicola	S	s	О	0	N	N	D	D	J	J	F	F	М	М	А	А	М	М	J	J	J	J	Α	Α	
------------------------------	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	--

This species is known from one site in wet forest in the southwest, where it has only been seen in three seasons since its discovery in 1994. The core flowering period seems to be the month of February, probably the earlier part. However, the plants are so difficult to spot in the gloomy light conditions that it is hard to believe that they might not have been overlooked elsewhere in similar habitats. Any searches should probably start in late January and be repeated two or three weeks later.

Genus and species	SPRING	SUMMER	AUTUMN	WINTER

Townsonia

A genus with two species, one in New Zealand, the other endemic to Tasmania. They are evergreen orchids, forming loose groups by vegetative reproduction. Non-flowering plants have a leaf held above the litter or moss level by a short stalk, while flowering plants have a sheathing leaf halfway up the stem.

												l _													
Townson	ia viridis	S	S	0	0	N	N	D	D	J	J	F	F	М	М	Α	Α	М	М	J	J	J	J	Α	Α

A summer-flowering higher elevation orchid (but to lower levels in western Tasmania), with local flowering time depending much on elevation. In searches for this species, the bright green leaves are often spotted first, as the small flowers are dull and blend into the background.