

FOREWORD

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 available as a PDF file downloadable from the following websites:

www.fpa.tas.gov.au www.dpipwe.tas.gov.au www.ecotas.com.au

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

The authors are aware that the PDF file prints to different qualities on different printers. We 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 authors for the Microsoft Word version.

FEEDBACK

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

Mark Wapstra

Nina Roberts

mark@ecotas.com.au

Nina Roberts

nina.roberts@fpa.tas.gov.au

Environmental Consulting Options Tasmania Forest Practices Authority
28 Suncrest Avenue, Lenah Valley TAS 7008 30 Patrick Street, Hobart TAS 7000

ACKNOWLEDGEMENTS

Staff of the Tasmanian Herbarium provided collection date information for orchids held by their institution.

CITATION

Readers are free to use and distribute this document but please check for the latest version. Please acknowledge use by the following citation:

Wapstra, M., Roberts, N., Wapstra, H. & Wapstra, A. (2010). *Flowering Times of Tasmanian Orchids: A Practical Guide for Field Botanists*. Self-published by the authors (September 2010 version).

VERSIONS

First edition: April 2008; Second edition: September 2010

BACKGROUND

Tasmania has about 210 species of native orchids. 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 certainly 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

We have prepared this document 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 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, we have 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 a hot 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 authors acknowledge that this can be difficult and urge people to exercise caution and rigour in their assessments.

This document is free to all. We simply ask users to acknowledge its use. We will make every effort to keep the guide up-to-date with current nomenclature and taxonomy but users are urged to keep abreast of these subjects themselves.

FORMAT

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* (Buchanan 2009) produced annually by the Tasmanian Herbarium.

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 contains all species, not just threatened species, even though the latter group may be the focus of surveys for various reasons. However, we thought it would be 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. We recommend the following steps.

- 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. In 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). 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 hot 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.

SPECIES BY SPECIES GUIDE TO FLOWERING TIMES

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* 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. We display this discrepancy 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 authors (sourced from many decades of orchid surveys and photography), information from Tasmanian Herbarium specimens, 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)
I		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	,														AUT	ГИМИ					WI	NTER		
			_	,			,									,					wering	by the	prese	ence of
Acianthus caudatus	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 often forms quite (September).	massive	coloni	es, but	not al	l plants	s may p	roduce	e flowe	ers. The	e specie	es has a	a wide	floweri	ng per	iod but	there	is a de	finite p	eak in	early t	to mid	spring		
Acianthus pusillus	S	S	О	О	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	ne main f	lowerir	na neric	nd of th	ne two	snecies	old fl	owers	of A. r	nusillus	may st	ill be d	etectal	ole dur	ina the	flower	ina pe	riod of	A. cau	ıdatus	Howey	er the	two s	species

Genus and Species	turnettia there is no point searching for this species unless there has been a hot summer fire in the preceding season because this species only emerges as a leafless flowering plant after such a fire and then often in large numbers. In the second season after the fire an odd few may reappear, but none beyond that. The proceding season because this species only emerges as a leafless flowering plant after such a fire and then often in large numbers. In the second season after the fire an odd few may reappear, but none beyond that. The proceding season because this species only emerges as a leafless flowering plant after such a fire and then often in large numbers. In the second season after the fire an odd few may reappear, but none beyond that. The proceding season because this species only emerges as a leafless flowering plant after such a fire and then often in large numbers. In the second season after the fire an odd few may reappear, but none beyond that. The proceding season because this species only emerges as a leafless flowering plant after such a fire and then often in large numbers. In the second season after the fire an odd few may reappear, but none beyond that.																					
	ere is no point searching for this species unless there has been a hot summer fire in the preceding season because this species only emerges as a leafless flowering plant after such a fired then often in large numbers. In the second season after the fire an odd few may reappear, but none beyond that. The fired then often in large numbers. In the second season after the fire an odd few may reappear, but none beyond that. The fired then often in large numbers. In the second season after the fire an odd few may reappear, but none beyond that. The fired then often in large numbers. In the second season after the fire an odd few may reappear, but none beyond that. The fired then often in large numbers. In the second season after the fire an odd few may reappear, but none beyond that. The fired then often in large numbers as a leafless flowering plant after such a fired then often in large numbers. In the second season after the fire an odd few may reappear, but none beyond that. The fired then often in large numbers. In the second season after the fire an odd few may reappear, but none beyond that. The fired then often in large numbers as a leafless flowering plant after such a fired then often in large numbers. In the second season after the fire an odd few may reappear, but none beyond that.														fire,							
Burnettia cuneata	re is no point searching for this species unless there has been a hot summer fire in the preceding season because this species only emerges as a leafless flowering plant after such a fithen often in large numbers. In the second season after the fire an odd few may reappear, but none beyond that. The time time time to be a plant only open for a few days, but plants remain recognisable for some weeks after flowering. The time time time time to be a plant only open for a few days, but plants remain recognisable for some weeks after flowering. The time time time time time time time tim														А							
Individual flowers of a plant only	re is no point searching for this species unless there has been a hot summer fire in the preceding season because this species only emerges as a leafless flowering plant after such a fire then often in large numbers. In the second season after the fire an odd few may reappear, but none beyond that. In the second season after the fire an odd few may reappear, but none beyond that. In the second season after the fire an odd few may reappear, but none beyond that. In the second season after the fire an odd few may reappear, but none beyond that. In the second season after the fire an odd few may reappear, but none beyond that. In the second season after the fire an odd few may reappear, but none beyond that. In the second season after the fire an odd few may reappear, but none beyond that. In the second season after the fire an odd few may reappear, but none beyond that. In the second season after the fire an odd few may reappear, but none beyond that. In the second season after the fire an odd few may reappear, but none beyond that. In the second season after the fire an odd few may reappear, but none beyond that. In the second season after the fire an odd few may reappear, but none beyond that. In the second season after the fire an odd few may reappear, but none beyond that. In the second season after the fire an odd few may reappear, but none beyond that. In the second season after the fire an odd few may reappear, but none beyond that. In the second season after the fire an odd few may reappear, but none beyond that. In the second season after the fire an odd few may reappear, but none beyond that. In the second season after the fire an odd few may reappear, but none beyond that. In the second season after the fire an odd few may reappear, but none beyond that. In the second season after the fire an odd few may reappear, but none beyond that. In the second season after the fire an odd few may reappear, but none beyond that. In the second season after the fire an odd few may reappear and t																					
flowering period of many species virtually impossible (but see com short flowering periods with som The flowering response of calade	s. Detection ments un per population en population en per	n prior to der some ons flowe ents such t to flowe	flowering is species suc ring for less as fire vary r freely unt	s possible th as <i>Cala</i> s than two y from sp il the grou	e becau adenia o week ecies to und cov	se <i>Cal</i> latifolia s befor o speci ver is r	adenia a for po re withe ies but e-estal	leaves ssible ering to most r olished	are dis except o unide respond I, usual	stinctive ions). [entifiable d positive ly in th	ely hai Detecti le brov vely to le secc	iry. Hovion of (vned lead hot find on the contraction)	wever, Caladel eaves a res dur third flo	disting nia spe nd sta ing the owering	guishing cies ca lks. e preced g seasc	g between be conditional distribution be conditional distribution between betw	een spe onstrair immer. ring sai	ecies or ned in s . Some d this,	n the b some s specie the lad	pasis of species es, especk of a	leaves by ver ecially t fire eve	is y the
Caladenia alata	s s	0	O N	N	D	D	J	J	F	F	M	М	А	А	М	М	J	J	J	J	А	Α
The flowers of individual plants of	open for a	few days	only, and lo	ocal popu	lations	usuall	y flowe	r over	a three	week	period	l only.										
Caladenia alpina	s s	О	O N	N	D	D	J	J	F	F	М	М	А	А	М	М	J	J	J	J	А	А
This species spans a huge altitud	dinal range	e, and loca	al flowering	times va	ry acco	ordingly	y. The o	closely	related	d and s	imilar	C. crad	<i>cens</i> is	typical	ly a lov	vland s	pecies	that flo	owers	earlier.		
Caladenia angustata	s s	0	O N	N	D	D	J	J	F	F	М	М	А	А	М	М	J	J	J	J	А	А
Peak flowering is in late Septemb weeks earlier and is nearly finish					I the cl	osely r	elated	and sir	milar <i>C</i>	. gracili	is occu	ır toge	ther, a	s they	do at F	ingal, (C. angu	ustatas	starts f	flowerir	ig abou	ut two

Genus and Species			SPI	RING					SUN	MMER					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	А	А
There is a strong peak in floweri	ng in la	atter ha	alf of O	ctober	•																			
Caladenia atrata	S	S	0	0	N	N	D	D	J	J	F	F	M	М	А	А	М	M	J	J	J	J	А	A
Peak flowering depends on the c	ak flowering depends on the coldness of the locality.																							
Caladenia atrochila	S	S	0	0	N	N	D	D	J	J	F	F	M	М	А	А	М	М	J	J	J	J	А	А
The flowers open for only a few	days be	efore s	elf-poll	inating	but fir	nished	flowers	shoul	d be id	entifial	ole if di	ssecte	d.	•	•	•	•	•		•	•	•		
* 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	А
The flowering period on the main two to four days before self-polli												made	on 5 No	ovemb	er 199:	2 and 9	Octob	er 200	4. The	flower	s of th	is spec	ies las	t only
* Caladenia australis	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 period on mainland Au to be a good time to search for t				r to No	vembe	r. Knov	vn only	from	one co	llection	in Tas	mania	(9 Nov	ember	1968,	Flinder	s Islar	nd). Lat	e Octo	ber to	early N	loveml	per is l	ikely
* Caladenia brachyscapa	s	s	0	0	N	N	D	D	J	J	F	F	M	М	А	А	М	М	J	J	J	J	А	А
Flowering period on mainland Au	ıstralia	is Sep	tembei	r to No	vembe	r. Knov	vn only	from	one co	llection	in Tas	mania	(Clarke	e Islan	d, 7 No	vembe	r 1979	, which	n may l	oe a go	ood tim	ie to se	arch fo	or it.
* Caladenia campbellii	S	S	0	0	N	N	D	D	J	J	F	F	М	M	А	А	М	M	J	J	J	J	Α	A
This species appears to have a v	ery sh	ort flow	vering	period	around	1 1-15	Novem	ber.																

Genus and Species			SPF	RING					SUN	/IMER					AUT	ΓUMN					WI	NTER		
* Caladenia cardiochila	S	S	0	0	N	Z	D	D	J	J	F	F	М	М	А	А	М	М	J	J	J	J	А	А
Flowering period on mainland Au	ıstralia	is Aug	ust to I	Novem	ber bu	t collec	ted in	Tasma	nia onl	y once	(from	somew	here o	n Flind	ers Isla	and) in	Octob	er 194	7.					
Caladenia carnea	S	S	0	0	N	N	D	D	J	J	F	F	M	М	А	А	М	М	J	J	J	J	А	А
C. carnea is part of a complex of places), C. carnea usually begins	carnea is part of a complex of closely related species involving at least <i>C. fuscata</i> in Tasmania, but possibly also <i>C. tonellii</i> . Where <i>C. carnea</i> and <i>C. fuscata</i> grow together (which is in markes), <i>C. carnea</i> usually begins flowering about two weeks after <i>C. fuscata</i> . Field workers should watch for possible hybrids and use the key warily. Caladenia caudata S S O O N N D D J J F F M M A A M M J J J J J A A A A A A M M N A A A A A A A A A A A														many									
* Caladenia caudata	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 populations in the species responds with prolific floot detect in its often dried-off grant process.	wering	the fir																						
Caladenia clavigera	S	s	0	О	N	N	D	D	J	J	F	F	М	М	А	А	М	М	J	J	J	J	А	А
A relatively early spider-orchid w	ith a d	istinct	peak ir	n the la	atter h	alf of O	ctober		l								l	l			1	I		
* Caladenia congesta	S	S	0	0	N	N	D	D	J	J	F	F	М	М	А	А	М	М	J	J	J	J	А	А
There is a definite peak in flower be identifiable by dissection because	9						colder	areas	this sp	ecies r	nay flo	wer int	o early	/ Janua	ry. Thi	s is a h	nighly o	distinct	ive spe	ecies ar	nd finis	hed flo	wers n	nay
Caladenia cracens	S	S	О	0	N	N	D	D	J	J	F	F	M	М	А	А	М	М	J	J	J	J	А	А
This lowland species flowers from	n late (Octobe	r to mi	d Nove	mber,	while t	he clos	ely rel	ated ar	nd simi	lar <i>C. a</i>	<i>lpina</i> i	s typic	ally a s	pecies	of high	ner alti	tudes,	and flo	wers la	ater.			
* Caladenia dienema	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 late October to ea	arly No	vembe	er appea	ars to	be con	sistent,	proba	bly bed	ause c	of the re	elativel	y cons	istent v	west co	ast cli	mate.	•	•	-					
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 from	m late	Novem	nber int	o early	y Decei	mber. F	inishe	d flowe	rs mai	ntain th	neir dis	tinct sh	nape a	nd colc	uring f	or up t	o two	weeks.		1		1	1	

Genus and Species			SPF	RING					SUN	MMER					ΑU	TUMN					wı	NTER		
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 an October-flowering	specie	s. Res	oonds s	strongl	y to fir	e and c	ther d	isturba	nce su	ch as s	lashing	J												
* Caladenia filamentosa	S	s	0	0	N	N	D	D	J	J	F	F	М	М	А	А	М	М	J	J	J	J	А	А
	is species is identifiable before flowering from its leaves (reddish base, densely hairy and long) and from finished flowers (because of the distinctive long wispy segments persisting for me time). This species responds strongly to fire, with high numbers one to two seasons after fire, then dwindling to few or none as the undergrowth thickens.															-								
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 begins flowering about two week															<i>scata</i> g	row to	gether	(which	is in n	nany p	laces),	C. carı	nea us	ually
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								sely re	elated a	and sin	nilar <i>C.</i>	angus	tata od	cur tog	gether,	as the	y do at	Fingal	, C. ar	ngustat	a start	s flowe	ring at	out
Caladenia helvina	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 closely related to	C. pali	<i>lida</i> but	C. hei	<i>lvina</i> is	a sum	mer sp	ecies (peakin	g in lat	tter ha	lf of De	cembe	r) whe	reas <i>C</i> .	. pallid	a flowe	rs in s	oring.	•			•		
* 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 seer Circular Head where they are no			tober t	o early	Nove	mber in	the n	ortherr	Midlaı	nds and	d mid [Decemb	per in t	he Lily	dale ar	ea, wit	h old r	ecords	from t	he 180	00s in e	early Ja	nuary	from
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 of	pen foi	r only o	one or	two da	ys befo	ore self	-pollina	ating a	nd in c	old we	ather t	ney ma	y self-	pollina	te with	out op	ening.	1		1	1	1	1	.1

Genus and Species			SPF	RING					SUN	MMER					ΑU٦	ΓUMN					WI	NTER		
* Caladenia pallida	S	S	О	0	N	N	D	D	J	J	F	F	М	М	А	А	М	М	J	J	J	J	А	А
Not much is known about this s	pecies,	which	appear	s to ha	ave bee	n more	e wides	spread	in the	1800s.	The fe	w more	e recer	nt reco	rds sug	gest a	peak f	lowerir	ng peri	od spa	nning I	Novem	ber.	
* Caladenia patersonii	S	S	0	0	N	N	D	D	J	J	F	F	М	М	А	А	М	М	J	J	J	J	А	А
is species has a long flowering period but with a distinct peak from October into November, which is probably the best detection window. This spider-orchid responds strongly to hot mmer fires with profuse flowering the season after, then quickly diminishing to low numbers in subsequent seasons.														1										
* Caladenia prolata	S	S	0	0	N	N	D	D	J	J	F	F	М	М	А	А	М	М	J	J	J	J	А	А
In Tasmania only known from the		lla atiau	. (100	0 Elin	dore lel	and: a	ad 20 (Ootobo		10 N			D L I -	(ام مدما)		*****	annd n	oorob i	, indo.	D.				
late October to mid November.	iree co	nection	15 (199	O, FIIII	JEI 5 151	anu, ai	110 30 V	octobe	r and	I8 NOV	ember :	2004, 1	Dear is	siana),	sugges	sting a	good s	earch	WIIIGOW	on Ba	ass Str	ait isiai	nas col	ild be
late October to mid November.	s S	S	0	0	N N	N	D	D	r and	J IS MON	ember :	2004, I	M	M	A	A	M M	M	J	J on Ba	ass Str	J J	A	A A
* Caladenia pusilla The flowers of this tiny species in the spec	S	S	0	0	N	N	D	D	J	J	F	F	М	М	А	А	М	M	J	J	J	J	А	А
* Caladenia pusilla	S	S	0	0	N	N	D	D	J	J	F	F	М	М	А	А	М	M	J	J	J	J	А	А
* Caladenia pusilla The flowers of this tiny species igive-away.	S may no	S t alwa	O ys oper	O fully I	N poefore :	N self-pol	D llinating	D g, and D	J may th	J nen be	F very ha	F ard to o	M detect	M in the	A field, b	A ut whe	M n detec	M cted, th	J ne shoi	J rt stiff	scape	J and tin	A y buds	A are a

This species was not seen for many years (after a fire destroying the humus layer) but the time of flowering was well known from several precise observations and was considered as a few days either side of 1 November. At this time the local *C. carnea* has finished and *C. cracens* is just starting. In 2009, a single flower was detected at the known site on 25 October but withered a few days later.

Genus and Species			SP	RING					SU	MMER					ΑU	TUMN					WI	NTER		
* Caladenia tonellii	S	S	0	0	N	N	D	D	J	J	F	F	М	М	А	А	М	М	J	J	J	J	A	А
Caladenia tonellii S S O O N N D D D J J F F M M A A M M J J J J J J J J J J J J J J) so de	tection								
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 extend greenish cream to greenish y with strong flowering followi	yellow buc	ls (no d																						
Caladenia vulgaris	S	S	О	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 C. late December, possibly ever																								ber

This species is most easily detected when in full flower (although early buds and fertilised flowers are also unmistakable). The leaf emerges in winter and is fully developed long before flowering time. It looks like a reddish fallen gum leaf and is unmistakable.

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

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, which coincides with peak flowering of the other Tasmanian beard-orchids.

Genus and Species			SPI	RING					SUI	MMER					AU [.]	TUMN					WI	NTER		
Calochilus herbaceus	S	S	О	0	N	N	D	D	J	J	F	F	М	М	А	А	М	М	J	J	J	J	A	А
Often mistaken for the more rol	ren mistaken for the more robust <i>C. campestris</i> , which has never been recorded from mainland Tasmania.																							
Calochilus imberbis	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 was not included in mainland Australia but Tasmani										rpetua	ting pe	eloric fo	orm (wi	ith a pe	etaloid	labellu	m) of (C. platy	rchila.	Flower	ing per	iod abo	ove is f	rom
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	А
Where growing together with C.	robert	sonii (often) t	his sp	ecies fl	owers o	ne to	two we	eks la	ter.		•	•		•	•	•	•		•	•		•	
Calochilus platychila	S	S	0	0	N	N	D	D	J	J	F	F	М	М	А	А	М	M	J	J	J	J	А	А
Usually the first beard-orchid to	flower	. Wher	e it gro	ws tog	jether v	with <i>C.</i>	p alud	osus, w	hich is	often	the ca	se, <i>C.</i> µ	olatych	<i>ila</i> com	nes into	flower	one o	r two v	/eeks	earlier.	,	•	•	_1

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 tends to become fused (although *C. cornuta* is distinctively green). Fertilised flowers elongate considerably making detection easy but identification difficult.

Chiloglottis cornuta S S O O N N D D J J F F M M A A M M J J J J A A

This species occupies a huge altitudinal range, with flowering peaking in November at sea level, up to late December at high altitudes.

Chiloglottis grammata S S 0 0 Ν Ν D D J М Μ Α Α M Μ Α Α

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

Genus and Species			SPI	RING					SUN	/IMER					AUT	ΓUMN					W	INTER	!	
Chiloglottis gunnii	S	S	0	О	N	N	D	D	J	J	F	F	М	М	А	А	М	М	J	J	J	J	А	А
Flowering time depends on altitu	ide and	d coldr	ness of	the loc	ality, w	ith flo	wering	as ear	ly as la	te Octo	ber at	low a	ltitude a	and as	late as	Janua	ry at h	nigh alti	tude.		•			
Chiloglottis reflexa	S	S	0	0	N	N	D	D	J	J	F	F	M	M	A	А	М	М	J	J	J	J	А	А
A typical autumn species, locally	somet	times	extendi	ng wel	I into M	lay.																		
* 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 1	Tasmar	nia wit	h a wid	e rang	e of flo	wering	times	, varyir	ng from	mid A	ugust	on Flin	ders Is	land to	early l	Noven	nber or	n mainla	and Ta	smania	ì.			
Chiloglottis triceratops	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 flowers as early as	the firs	t half	of Octo	ber at	lower a	ıltitude	s and	as late	as late	Decen	nber a	t highe	r altitu	des an	d in col	d plac	es.	•			•	•		•
Chiloglottis valida	S	S	0	0	N	N	D	D	J	J	F	F	М	М	А	А	М	М	J	J	J	J	А	А
In Tasmania only found on King	Island	(27 O	ctober	1998;	20 Nov	ember	2009)).	•		•	•	-	•	•	•	•	•	-	•	•	•		

Corunastylis

When not flowering, *Corunastylis* specimens are virtually undetectable because their single thin leaf is often hidden amongst grasses and sedges. Even in flower their short stature and colour makes them hard to detect in their surrounds. The flower stems elongate in the fruiting stage and persist for many months. They may then be more easily spotted but the dried flower parts are rarely useful for identification. Midge-orchids are often spotted in slashed roadsides, which may indicate a liking for disturbance.

																			_					
Corunastylis archeri	S	S	0	0	N	N	D	D	J	J	F	F	М	М	A	А	M	M	J	J	J	J	Α	А
Usually the first midge-orchid to	come i	nto flo	wer.																					
* Corunastylis brachystachya	S	S	0	0	N	N	D	D	J	J	F	F	M	М	А	А	М	М	J	J	J	J	А	А

The few records of this species indicate a peak flowering in March.

Genus and Species			SPF	RING					SUI	MMER					AUT	TUMN					WI	NTER		
Corunastylis despectans	S	S	0	0	N	N	D	D	J	J	F	F	M	M	A	А	М	М	J	J	J	J	А	А
Historical records indicate that th	is spe	cies ma	ay flow	er as e	arly as	Octob	er, wh	ile rece	nt rec	ords su	ggest a	a peak	in flow	ering f	rom ea	ırly Jan	uary, t	through	n to lat	e Marc	h at hi	gher e	levatio	ns.
* Corunastylis firthii	S	S	0	0	N	N	D	D	J	J	F	F	M	М	А	А	М	М	J	J	J	J	А	А
The few records indicate this spethen (supporting existing doubts								ı. It is ı	restric	ted to t	he Fre	ycinet F	Peninsu	ula, wh	ere the	e closel	y relat	ed and	simila	r <i>C. ta</i> .	smanic	a is als	so in flo	ower
* Corunastylis morrisii	S	s	0	О	N	N	D	D	J	J	F	F	M	М	А	А	М	М	J	J	J	J	А	А
The flowering period of this speci	es ext	ends ir	nto Mar	ch but	most	collecti	ons are	e from	late Ja	nuary t	through	n to late	e Febr	uary.									1	
* Corunastylis nuda	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 extends well into hig	her al	titudes	where	flower	ing pe	aks in	Februa	ry.																
* Corunastylis nudiscapa	S	S	0	0	N	N	D	D	J	J	F	F	M	М	А	А	М	М	J	J	J	J	А	А
The flowering period of this speci error and it is more likely that the recently re-discovered in early Ap flowering spikes can be detected	e speci oril and	imens d the s	were cotage of	ollected flower	d on 9 ing su	Octobe ggests	er 1840 that th). Anoti ne appr	her col	lection e time (of the of year	species for det	from ection	the 18 is fron	50s fro	m nea	r Oyste	er Cove	is also	from	Octobe	er. The	specie	es wa
Corunastylis pumila	S	S	0	0	N	N	D	D	J	J	F	F	M	М	А	А	М	М	J	J	J	J	А	А
It appears that peak flowering m	ay be	confine	ed to th	ie mon	th of F	ebruar	y.	•									•	•	-	•	•	•		•
								D								А		М						T

Genus and Species			SPF	RING					SUN	/IMER					ΑU	ΓUMN					WI	NTER		
Corybas Flowers of Corybas are easily over colour) and this can be a rough of C. fimbriatus, C. fordhamii, C. in Acianthus and Cyrtostylis, this di with habitat features. Leaves are	guide t <i>curvus</i> ifferen	o ident s); and ce in le	ificatio those t af colo	n of sp that are uration	ecies: e grey- ı withir	those t green	hat ard above	e dark and re	green a ddish p	above a burple l	and pu below (rple be <i>C. ung</i>	elow (<i>C</i> guiculat	. <i>aconi</i> 'us). Pr	tiflorus ovided	s); thos the fie	e that ld wor	are gr ker ca	een on n differ	both sentiate	urface e betwe	s (<i>C. di</i> een <i>Cor</i>	iemeni ybas,	cus,
Corybas aconitiflorus	S	S	О	О	N	N	D	D	J	J	F	F	M	M	А	А	М	М	J	J	J	J	А	А
Non-flowering plants can be iden	rybas aconitiflorus S S O O N N D D J J F F M M A A M M J J J J A A A A A A A A A A																							
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	this sp	ecies i	s very	long, t	here is	a defir	nite pe	ak in la	ite Jun	e and J	luly, pe	rhaps	somew	hat lat	er at h	igher e	levatio	ns.						
Corybas fimbriatus	S	S	0	0	N	N	D	D	J	J	F	F	М	М	А	А	M	М	J	J	J	J	А	А
A species of northern Tasmania a	and Ba	ss Stra	ait islan	ıds.																				
* Corybas fordhamii	S	s	o	0	N	N	D	D	J	J	F	F	М	M	А	А	М	М	J	J	J	J	А	А
Flowers from July to October on	the ma	ainland	but in	Tasma	nia on	ly know	n fron	n a coll	ection	from F	linders	Island	in Sep	tembe	r, whic	h is pro	obably	the be	st time	e to loc	k for i	t here.		
Corybas incurvus	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 long flowering p	eriod l	out wit	h a pea	ık arou	nd Aug	just.																		
Corybas unguiculatus	S	S	0	0	N	N	D	D	J	J	F	F	М	М	А	А	М	М	J	J	J	J	А	А
Outside the flowering period plan	nts can	be ide	entified	from t	heir he	art-sha	aped le	aves tl	nat are	grey-(green a	bove,	reddish	n purple	e bene	ath.								

			SPI	RING					SL	JMMER					AU	TUMN					W	INTER		
Cryptostylis When flowering, species of Cryptoseathery leaves are distinctive althor										iser sed	gy hat	oitats).	This is	one of	the fe	w ever	green (orchid	genera	a in Tas	smania	and th	ie erec	t
Cryptostylis leptochila	S	S	0	О	N	N	D	D	J	J	F	F	M	M	А	А	М	М	J	J	J	J	А	А
his species is only known from Fli	linders	s Island	d, with	n all Ta	smania	ın Herb	arium	collec	tions f	rom late	Janu	ary.			S.	•	•	•		•	1	•	•	
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	А
Detectable in bud stage as buds ar	ire lar	ge and	show	colour	early.	•							•	•	•	•		•	•	1	•		•	

When flowering, species of *Cyrtostylis* are easily detected (often quite abundant). However, the genus is easily recognised during the non-flowering period by the distinctive ground-hugging leaves. Confusion with *Acianthus* is unlikely as their leaves are purplish below. Experience is needed to distinguish this genus from *Corybas* species with similarly rounded green ground-hugging leaves. The leaves of *Cyrtostylis* species are sparkling dewy beneath with prominent veins (but experience is needed).

Cyrtostylis reniformis	S	S	0	О	N	N	D	D	J	J	F	F	М	М	А	А	М	М	J	J	J	J	A .	А
------------------------	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	-----	---

This is the more widespread of the two species. Where the two species co-occur, *C. robusta* tends to begin flowering about two weeks earlier than *C. reniformis*. However, differentiation is easy because of their distinctive leaves: *C. reniformis* has dull grey-green leaves and *C. robusta* has bright green (and often larger) leaves. This character is so consistent and obvious that identification is possible many weeks before and after flowering.

See comments under *C. reniformis* and also note the earlier peak and overall shorter flowering period, which can be a further aid to identification. It is an extremely coastal species, often confined to a few hundred metres from the shoreline.

AUTUMN

WINTER

SUMMER

Genus and Species

SPRING

Dipodium The single Tasmanian species is	a sumi	mer-flo	wering	leafle	ss epip	arasite																		
Dipodium roseum	S	S	0	О	N	N	D	D	J	J	F	F	М	М	А	А	М	М	J	J	J	J	А	А
In full flower, this spectacular sp asparagus spears. After flowerin											ady be	detect	ted in I	ate spr	ing by	their fl	eshy c	lark pu	rple flo	wering	stems	that I	ook like	9
Disa This genus is represented by a significant detectable prior to this from the	ingle s clump-	pecies -formin	in Aust ng light	ralia a green	nd Tas tuft of	mania. fleshy	It is n leaves	ative to	Soutl	h Africa down ir	n. It is a	a highl ner and	y distir d re-en	nctive s nerges	pecies in spri	, most ng).	easily	recogn	ised wl	nen flo	wering	but al	so	
Disa bracteata	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 recently recorded in Tasma	ınia, fro	om som	netime	in Nov	ember	(near I	Bridpo	rt) and	mid N	ovemb	er 200	9 (Latr	obe).											
Diuris Diuris species have long, narrow absence of flowers, except perhadisplays as a response to hot fire	aps in r	ecently	y burnt	areas)). Flow	ering p	lants a	ire easi	ly dete	ected di	ue to tl	neir oft	en larç	ge brigl	ntly col	oured t	flowers	s. Some						n the
Diuris chryseopsis	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 typical Midlands grassland spe	cies wh	nere flo	wering	occur	s two v	veeks e	either s	side of	1 Octo	ber, bu	ıt a littl	e later	in oth	er habi	tats els	sewher	e.							
* Diuris lanceolata	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 from the North West,	where i	most fl	owerin	g occui	rs in No	ovembe	er.	•			•	•	-	•	•	•	•	•	-	•	•	•	•	

Genus and Species			SPI	RING					SUI	MMER					AUT	гими					WI	NTER		
Diuris monticola	S	S	0	0	N	N	D	D	J	J	F	F	M	М	А	А	М	М	J	J	J	J	А	А
A highland species, hence flower	ing lat	er tha	an the o	ther Ta	ısmania	an spec	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 specie	es flow	ering	for a sh	ort pe	riod wit	th flow	ers gei	nerally	gone b	y mid I	Novem	ber.												
* Diuris palustris	S	S	0	0	N	N	D	D	J	J	F	F	M	М	А	А	М	М	J	J	J	J	А	А
A coastal species with quite a fev	w early	/ and	late reco	ords bu	ut most	ly peal	king ar	ound C	ctober															
Diuris pardina	S	S	О	0	N	N	D	D	J	J	F	F	M	М	А	А	М	М	J	J	J	J	А	А
A mainly inland species, flowering	ng in ea	arly sp	pring.																					
Diuris sulphurea	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 mainly inland species, flowering	ng whe	n <i>D. μ</i>	p <i>ardina</i> I	nas lar	gely fin	ished.																		

Dockrillia

Dockrillia is detectable at any time of the year because the distinctive epiphytic patches of succulent leaves are present all year round. There is no doubt that detection is aided by the presence of the bright yellow flowers but these are certainly not critical, except for separation of subspecies.

Dockrillia striolata	S	s	0	0	N	N D	D	J	J	F	F	М	М	Α	А	М	М	J	J	J	J	А	А
----------------------	---	---	---	---	---	-----	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---

Both subspecies flower at the same time, perhaps slightly into November for subsp. striolata.

Genus and Species	SPRING	SUMMER	AUTUMN	WINTER
Eriochilus				
This genus is represented in Tasi	mania by two species: <i>E. cucullatus</i> is wipartly developed at flowering time. Afte and early spring.			

S S Ο 0 Ν Ν D D J M M Μ Α Eriochilus cucullatus Α Α This species has a huge altitudinal range, with flowers first appearing in late January in lowland, much later at high altitudes. The recent recognition of *E. magenteus*, however, means that

some higher elevation records may refer to that species, although E. cucullatus does also occur at higher elevations.

Eriochilus magenteus

S S O O N N D D J J F F M M A A M M J J J J A A

A newly recognised species, predominantly of higher elevations. On the mainland, the species flowers between December and March but until more formal collections are made in Tasmania, its flowering time in this State is largely unknown (it is very difficult to determine the two species based on herbarium specimens). The type specimen was collected on 12 February (ACT).

Gastrodia The brown leafless stems of these saprophytic orchids are hard to see in their surrounds until the flowers are developed. S S Ω Ν F Μ Gastrodia procera Ω N Α M After fertilisation specimens of *G. procera* remain visible for many weeks, particularly obvious because of the massively swollen ovaries. Gastrodia sesamoides S S O o Ν Ν D D M Μ Α Α M Μ 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			SPF	RING					SUI	MMER					AU [.]	TUMN					WI	NTER		
Glossodia																								
Tasmania has a single species o time.	f <i>Gloss</i>	<i>odia</i> , wl	hich is	unmis	stakable	e when	in flov	ver, ar	nd also	easily (detecte	d from	leaves	s. The	single	hairy le	eaf dev	elops ir	n winte	er and	is fully	grown	at flow	/ering
Glossodia major	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 is one of the earliest orchid	s to ap	pear in	spring	ı.																				
XGlossadenia This is a rarely encountered intribut this does not always seem to					ilossodi	ia majo	r and	Phelad	lenia de	eformis	. Techr	iically,	both p	arents	would	need t	o be in	flower	in an	area fo	or this e	entity t	o be pi	resen
XGlossadenia tutelata	S	s	0	0	N	N	D	D	J	J	F	F	М	М	А	А	M	М	J	J	J	J	А	А
The flowering period appears to	be mid	l Septer	mber t	o Octo	ber. Flo	owers a	are mo	st like	ly to be	found	in the	first fe	w year	s after	a fire.	1		•	•	1	•	1	1	
Hydrorchis																					6 1			
A single Tasmanian species in the flowering plants are surprisingly				cluded	l in <i>Mici</i>	rotis. L	eaves	are vir	tually i	mpossi	ible to	detect i	in swai	mpy gr	rasslan	ds and	herbfi	elds, bu	ıt altho	ough th	ne flowe	ers are	small,	
* Hydrorchis orbicularis	s	s	0	0	N	N	D	D	J	J	F	F	М	М	А	А	М	М	J	J	J	J	А	А

Leptoceras

Leptoceras is unmistakable when in flower, and also easily detected from leaves, often in colonies. The distinctive ground-hugging, bright green leaf is well developed before flowering and has a small ligule-like growth at the base.

Leptoceras menziesii S S O O N N D D J J F F M M A A M M J J J J A A

This species flowers mainly after fire although leaves may be found from late winter regardless of fire.

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

AUTUMN

WINTER

SUMMER

Genus and Species

SPRING

Lyperanthus																								
This genus has one represent vegetation in which the plants																							the de	ense
Lyperanthus suaveolens	S	S	0	0	N	N	D	D .	J	J	F	F	М	М	А	А	М	М	J	J	J	J	А	А
These orchids can be identifie	d well aft	er flow	ering be	ecause th	he stiff	f plants	s rema	nin intac	t and	I the fl	owers ı	maintai	in their	r shape	e for a	long tir	me.							
Microtidium A single species in this genus	formerly	/ includ	ed in <i>Mi</i>	icrotis. D	Despite	e being	g of vei	ry short	statu	ure, th	is spec	es is r	elative	ly easy	, to de	tect be	cause t	he who	ole pla	nt is ye	ellowisl	n greei	٦.	
* Microtidium atratum	S	S	0	0 1	N	N	D	D	J	J	F	F	М	М	Α	Α	М	M	J	J	J	J	Α	Α
* Microtidium atratum Finished plants are distinguish									nd wit	J thered				M	A	A	М	M	J	J	J	J	A	P
									J nd wit	thered				M	A	A	M	M	J	J	J	J	A	
	aable fron	n other	onion-c	orchids b	pecaus g. Ofter	se the f	flower s of lea	spike ar	e prod	duced	leaf tu	rn blac	ck. y or re	cently	burnt :	sites. P	lants a	re dete	ctable	for ma	any we	eks af	ter	
Finished plants are distinguish Microtis The green onion-like leaf is refertilisation because the flowe	aable fron	n other	onion-c	lowering les rema	g. Ofter ains in Micro	se the f	flower s of lea	spike ar	e prod	duced	leaf tu	rn blac	ck. y or re	cently	burnt :	sites. P	lants a	re dete	ctable	for ma	any we	eks af	ter	
Finished plants are distinguish Microtis The green onion-like leaf is refertilisation because the flower prasophyllum species but these	adily deter spike we have a	ected p ith drie red lea	onion-conion-conion-conion-conion-conion-conion-conion-conion-conion-conion-conion-conion-conion-conion-conion-conion-conion-conion-conion-conion-conion-conion-conion-conion-conion-conion-conion-conion-conion-conion-conion-conion-conion-conion-conion-conion-conion-conion-conion-conion-conion-conion-conion-conion-conion-conion-conion-conion-conion-conion-conion-conion-conion-conion-conion-conion-conion-conion-conion-conion-conion-conion-conion-conion-conion-conion-conion-conion-conion-conion-conion-conion-conion-conion-conion-conion-conion-conion-conion-conion-conion-conion-conion-conion-conion-conion-conion-conion-conion-conion-conion-conion-conion-conion-conion-conion-conion-conion-conion-conion-conion-conion-conion-conion-conion-conion-conion-conion-conion-conion-conion-conion-conion-conion-conion-conion-conion-conion-conion-conion-conion-conion-conion-conion-conion-conion-conion-conion-conion-conion-conion-conion-conion-conion-conion-conion-conion-conion-conion-conion-conion-conion-conion-conion-conion-conion-conion-conion-conion-conion-conion-conion-conion-conion-conion-conion-conion-conion-conion-conion-conion-conion-conion-conion-conion-conion-conion-conion-conion-conion-conion-conion-conion-conion-conion-conion-conion-conion-conion-conion-conion-conion-conion-conion-conion-conion-conion-conion-conion-conion-conion-conion-conion-conion-conion-conion-conion-conion-conion-conion-conion-conion-conion-conion-conion-conion-conion-conion-conion-conion-conion-conion-conion-conion-conion-conion-conion-conion-conion-conion-conion-conion-conion-conion-conion-conion-conion-conion-conion-conion-conion-conion-conion-conion-conion-conion-conion-conion-conion-conion-conion-conion-conion-conion-conion-conion-conion-conion-conion-conion-conion-conion-conion-conion-conion-conion-conion-conion-conion-conion-conion-conion-conion-conion-conion-conion-conion-conion-conion-conion-conion-conion-conion-conion-conion-conion-conion-conion-conion-conion-conion-conion-conion-conion-conion-conion-conion-conion-conion-conion-conion-con	lowering les rema (green in	g. Ofter	on fields	s of lea	spike are	e prod	duced	leaf tu	rn blad grassy tificatio	y or reon to s	cently	burnt :	sites. P will rare	lants a	re dete	ctable e. Ofte	for man occu	any we	eks afi	eer vith	A
Finished plants are distinguish Microtis The green onion-like leaf is refertilisation because the flower Prasophyllum species but the Microtis arenaria	adily deter spike we have a	ected p ith drie red lea	onion-conion-conion-conion-conion-conion-conion-conion-conion-conion-conion-conion-conion-conion-conion-conion-conion-conion-conion-conion-conion-conion-conion-conion-conion-conion-conion-conion-conion-conion-conion-coni	lowering ales rema (green in O	g. Ofter ains in Micro	en field: atact (if otis).	s of leaf not m	spike areaves areanown do	e prod	duced	leaf tu	rn blad grassy tificatio	y or reon to s	cently	burnt :	sites. P will rare	lants a	re dete	ctable e. Ofte	for man occu	any we	eks afi	eer vith	

Genus and Species			SPF	RING					SUN	MER					AUT	UMN					WI	NTER		
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	A
Extends into higher altitudes, he	nce ha	s an ex	<tended< td=""><td>d flowe</td><td>ring pe</td><td>eriod.</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tended<>	d flowe	ring pe	eriod.																		
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. 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*.

Orthoceras

A genus with a single species. A tuft of long grass-like leaves is well developed before flowering time (summer) but is impossible to detect among the dense sedgy vegetation in which this species grows. Despite the highly distinctive appearance and colour of the flowers, flowering plants are also difficult to spot, as they simply blend in.

* Orthoceras strictum	s	s	O O N N D	D	J	J	F	F	М	М	Α	А	М	М	J	J	J	J	А	А
-----------------------	---	---	-----------	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---

The flowering period indicated is quite indicative but the specific flowering time may differ throughout the State (e.g. east to west, with some evidence that west coast plants may flower a little later).

Paracaleana

A genus with one species in Tasmania. A single thin reddish leaf is fully developed long before flowering time but is virtually undetectable among other vegetation.

Paracaleana minor	S	S	0	0	N	N	D	D	J	J	F	F	М	М	Α	Α	М	М	J	J	J	J	Α	Α
-------------------	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---

Recently fertilised flowers can be readily detected and identified.

Genus and Species	species with a peak in flowering in September. Set in early winter and is similar to that of onion-orchids but is reddish at the base rather than green. The flower spike emerges several weeks after the leaf is fully, the emergent leaves may be detected prior to flowering but identification of species requires flowers. Fertilised leek-orchids are difficult to identify with certainty. Or many leek-orchids is highly dependent on fire. Secondary 1000 m and over. Does not like fire. Secondary 1100 m Mt Wellington), appears to like disturbance but not necessarily fire. Secondary 1100 m Mt Wellington), appears to like disturbance such as slashing and fire. Secondary 1100 m Mt																							
Pheladenia When flowering, this is a highly of small-flowered Caladenia species		tive spo	ecies (once in	ıcluded	l in <i>Cal</i>	adenia)) becau	use of i	its brig	ht blue	flower	s and d	distinct	ive lab	ellum.	The le	aves ar	re indis	tinguis	hable f	from th	ose of	
Pheladenia deformis	S	S	0	0	N	N	D	D	J	J	F	F	М	М	А	А	М	М	J	J	J	J	А	А
Typically an early spring species	with a	peak i	in flow	ering ir	n Septe	ember.																		
formed. With experience, the em	nergen	t leave	s may	be det	ected	orior to	flower	Is but i	s reddi t ident	ish at t	he bas n of sp	e rathe ecies re	r than equires	green. flower	The flo s. Fert	ower sp ilised le	oike en eek-ord	nerges chids a	severa re diffid	I week	s after dentify	the lea	if is ful certaint	ly ːy.
Prasophyllum alpinum	S	S	0	0	N	N	D	D	J	J	F	F	М	M	А	А	М	М	J	J	J	J	А	A
A typical high altitude species, u	sually	1000 n	n and o	over. D	oes no	t like f	ire.																	
* 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	A
A high altitude species (600 m a	t Snug	Tiers,	1100	m Mt V	Vellingt	ton), ap	opears	to like	distur	bance I	but not	neces	sarily fi	re.										
* Prasophyllum apoxychilum	S	S	0	0	N	N	D	D	J	J	F	F	М	M	А	А	М	М	J	J	J	J	А	A
Widespread in lowland areas (mo	ore cor	mmon	than ir	nitially	though	t), app	ears to	like d	isturba	ince su	ch as s	lashing	g and fi	re.										
* Prasophyllum atratum	S	S	0	0	N	N	D	D	J	J	F	F	М	М	А	А	М	М	J	J	J	J	A	А
Little is known of this species bu slashing and probably fire.	t it has	s been	in full	flower	on Thr	ee Hun	nmock	Island	in the	first tv	vo wee	ks of N	ovemb	er, wh	ich is p	robabl	y the b	est tim	ne to se	earch fo	or it. It	appea	rs to lil	ке

Genus and Species			SPF	RING					SUN	/IMER					AUT	UMN					wı	NTER		
Prasophyllum australe	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 summer species from	damp l	heathla	ınds. R	espono	ds well	to hot	fires th	ne pred	eding :	season														
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 from late December to early Jan						ically to	o hot f	ires, w	ith high	n numb	ers app	pearing	g where	e there	were r	none be	efore. <i>I</i>	A swam	np form	n of this	s speci	es tend	ds to f	ower
* Prasophyllum castaneum	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 early summer species from d	lamp co	oastal h	neath ir	n south	nern Ta	ısmania	ı (so fa	ır). Lik	es dist	urbanc	e. Can	be con	fused	with <i>P.</i>	concin	num.	•			•		•		
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 the first season where there wer											ostratui	<i>m</i> in th	e nortl	n). Thri	ves on	hot su	ımmer	fires w	ith son	netime	s thou	sands a	appear	ing in
Prasophyllum crebriflorum	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 highland grasslands	s, with a	all colle	ections	so far	in the	latter p	art of	Decem	ber an	d flowe	ers with	ered a	fter mi	d Janu	ary.	•	•			•		•		•
Prasophyllum elatum	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 coastal lowland sp teatree stems are often seen in					re and	after f	lowerir	ng due	to its s	stature	. Likes	disturb	ance s	uch as	slashir	ng and	especi	ally ho	t fires.	Black	olants	reseml	oling b	urnt
* Prasophyllum favonium	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 from windswept wet h	eath in	northy	vesterr	Tasm	ania. L	ikes fir	e.	1		1		1		1	1	1	1	1		1	1		1	

Genus and Species			SPF	RING					SUI	MMER					AU	ΓUMN					WI	NTER		
Prasophyllum flavum	S	S	О	О	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	ınd ma	rgins a	t lower	altitud	des.																		
* 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 sp	pecies	with a	very sł	nort flo	wering	peak a	around	mid O	ctober	. Likes	disturb	ance, s	specific	cally sla	ashing,	and w	ould m	ost like	ely resp	pond s	trongly	to gra	ssland	fires.
Prasophyllum incurvum	S	S	0	0	N	N	D	D	J	J	F	F	М	М	А	А	M	М	J	J	J	J	А	А
A highland species (above 1000 plants most numerous a few yea the Central Highlands.																								
* Prasophyllum limnetes	S	S	0	0	N	N	D	D	J	J	F	F	М	М	А	А	M	М	J	J	J	J	А	А
Only known so far from a shrubb	oy swar	mp in r	norther	n Tasn	nania, _'	where i	t was	in full f	lower i	n mid	Deceml	oer. Re	sponds	s stron	gly to f	īre.								
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	overal	l bright	green	appea	rance a	and str	ong fra	igrance	e. Resp	onds w	ell to f	ire.											
* 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 Eucaly	/ptus v	riminali	is fores	t, with	an app	parently	y very	restrict	ed dis	tributio	n in so	uthern	Tasma	ania. Li	kes dis	turban	ce (e.g	ı. rabbi	t diggi	ngs) b	ut may	not lik	e fire.	
Prasophyllum mimulum	S	S	0	0	N	N	D	D	J	J	F	F	М	М	А	А	M	М	J	J	J	J	А	А
A high altitude species from above	ve 700	m, wit	th flowe	ering d	ependi	ng on a	actual	altitude	e.															

Genus and Species			SPF	RING					SUN	/IMER					AU	ΓUMN					WI	NTER		
*Prasophyllum aff. montanum) S	S	0	0	N	N	D	D	J	J	F	F	М	M	А	А	М	М	J	J	J	J	А	A
A poorly known high altitude spe uncertainty over taxonomy, furth							ontane	e grass	lands.	Best a	vailable	evide	nce su	ggests	late De	ecembe	er and .	Januar	y as th	e flowe	ering pe	eriod b	ut give	n the
* Prasophyllum olidum	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 sp	pecies v	with a	very sh	nort flo	wering	period	, begir	nning w	/hen <i>P.</i>	incorr	ectum	at the	same s	site has	argel	y finish	ied.				_			
* Prasophyllum perangustum	S	S	0	0	N	N	D	D	J	J	F	F	М	M	А	А	М	М	J	J	J	J	А	Α
Only known from a grassy open	forest ı	near Ho	obart. <i>i</i>	Appear	s to be	e stimul	ated b	y fire.																
* Prasophyllum pulchellum	S	S	0	0	N	N	D	D	J	J	F	F	М	M	А	А	М	М	J	J	J	J	А	А
A lowland species of peaty heath	, more	wides	pread t	han fir	st tho	ught. R	espond	ds stror	ngly to	fire.														
* Prasophyllum robustum	S	S	0	0	N	N	D	D	J	J	F	F	М	M	А	А	М	М	J	J	J	J	А	А
Only known so far from a grassy	Eucaly	ptus o	bliqua	forest	near L	atrobe '	where	it flow	ers in e	early N	ovembe	er.												
Prasophyllum rostratum	S	S	0	0	N	N	D	D	J	J	F	F	М	M	А	А	М	М	J	J	J	J	А	А
A northern species of coastal hea	ath (ap	parent	ly repla	aced by	y P. co	ncinnur	<i>n</i> in so	uthern	Tasma	ania), v	vith the	bulk o	of reco	rds in I	Novem	ber.								
* 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 dune swales. Emergence and flowering is highly dependent on a hot summer fire the preceding season, so much so that chances of finding plants in the absence of fire are extremely low.

Genus and Species			SPF	RING					SUI	MMER					AUT	TUMN					WI	NTER		
				ı													ı	ı						
Prasophyllum sphacelatum	S	S	0	0	N	N	D	D	J	J	F	F	М	М	А	Α	М	М	J	J	J	J	Α	Α
Somewhat similar in appearance (1100 m).	to <i>P. I</i>	rostrati	<i>um</i> , bu	t a spe	cies of	high a	Ititude	grassla	ands, f	lowerir	ng in De	cembe	er near	Mathi	nna (80	00 m) a	and ear	ly Janı	ary in	the Co	entral F	lighlan	ids	
* Prasophyllum stellatum	S	S	0	0	N	N	D	D	J	J	F	F	M	М	A	А	М	М	J	J	J	J	А	А
Available evidence suggests that records of this species from othe					,								,		rea in r	nid to	ate Fe	bruary	. There	is son	ne conf	usion	in the	
* Prasophyllum tadgellianum	S	S	0	0	N	N	D	D	J	J	F	F	M	M	А	А	М	М	J	J	J	J	А	А
Known from a handful of places i	n the (Central	Highla	ınds, fl	owerin	g in Jaı	nuary a	around	700 m	n altitud	de but a	mont	h later	in hig	her and	d more	expos	ed plac	es.					
* 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	Α
A small grassland leek-orchid fou	ınd in	the nor	thern I	Midland	ds, whe	ere it w	as in f	ull flow	er on :	20 Octo	ober (3	plants	only)	and in	fruit 2	weeks	later, i	ndicati	ive of a	a very	brief flo	owering	g perio	d.
Prasophyllum truncatum	S	S	0	0	N	N	D	D	J	J	F	F	M	М	А	А	М	М	J	J	J	J	А	А
The confused taxonomy of the P.	trunc	atum c	omplex	and it	ts occu	rrence	in vari	ous ha	bitat ty	ypes at	a range	e of ele	evation	ns perh	aps ex	plains	the ver	y wide	flower	ing pe	riod of	this sp	ecies.	
* 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 grassland species with restricted	ed dist	ributior	n in the	north	ern Mid	dlands.		-	•	•	· ·	'		•		•	-	-	_		•		-	

Genus and Species			SPF	RING					SUI	MMER					AU	TUMN					WI	NTER		
Pterostylis Pterostylis species may grow as leaves, which may be present at of a rosette at flowering is an im can be counted even in the abse texture of rosette leaves are suff	the tir portan nce of	me of f it chara flower	flowerin acter w s, while	in so hen se in oth	ome spe arching ner spec	ecies, v g for gr cies ros	while ir eenhoo settes	other ods and are ting	s the red also a y and d	osette aids in	may fo	rm afte cation.	er flowe Some	ering a rosett	nd witles are	her aga Iarge a	in befo nd eas	re the y to sp	next s ot (e.g	eason. J. <i>P. cu</i>	The p Icullata	resence a) and s	e or ab such pl	sence lants
Pterostylis alata	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 is one of Tasmania's true wi	nter g	reenho	ods. Fl	owerin	g plant	s witho	out ros	ettes b	ut rose	ettes o	f non-fl	owerin	g plant	s pres	ent at	the tim	e.							
Pterostylis aphylla	S	S	О	0	N	N	D	D	J	J	F	F	М	М	A	А	М	М	J	J	J	J	А	А
The species in the complex comp flowering time. Flowering plants January.																								
Pterostylis atrans	S	S	0	0	N	N	D	D	J	٦	F	F	M	М	А	А	М	М	J	J	J	J	А	А
A summer greenhood flowering I confused with <i>P. decurva</i> .	ate Jai	nuary a	at the h	nigher (end of i	its altit	udinal	range.	Flowe	ring pl	ants wi	thout r	osettes	s but ro	settes	of non	-flowe	ring pla	nts pr	esent a	at the t	time. S	ometir	nes
* 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
The species in the complex comp flowering time. Flowering plants be readily differentiated from <i>P</i> .	genera	ally wit	hout ro	settes	but the	ese app	pearing	short	y after	r. P. at	<i>riola</i> is	an auti	umn gr	eenho	od with	n a sho	rt flowe	ering p	eriod.	Finishe	d flow	ers of <i>F</i>	P. atrio	
* Pterostylis commutata	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 midsummer greenhood of gras although usually withering.	slands	in the	northe	ern Mid	lands,	usually	in full	flower	aroun	d Chris	stmas t	ime, w	hen the	e surro	undinç	g veget	ation h	as drie	d off. <i>i</i>	A roset	te is p	resent	at flow	/ering

Genus and Species			SPI	RING					SUI	MMER					AU	ΓUMN					WI	NTER		
Pterostylis concinna	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 winter/early spring species apex can be dissected out. Can be typified by the leafy stem and sli	nybridis	se with	P. ala	<i>ta</i> to pi																				
* 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	А
A late spring species that forms even in the absence of flowering are plants from early bud throug	plants	, the d	istincti	ve rose	ettes ca																			
Pterostylis curta	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 is an early spring species, for	orming	clonal	colonie	es. Ros	ettes p	resent	at flo	wering	time.	•	•			•	•	•	•	•		•	<u> </u>			
Pterostylis decurva	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/autumn greenhood w confused with <i>P. atrans</i> .	ith a la	irge alt	itudina	l range	e and fl	owerin	g peri	od. Flov	vering	plants	withou	t roset	tes but	t rosett	es of n	on-flov	vering	plants	preser	it at th	e time.	Some	times	
Pterostylis dubia	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 altitude leafy greenhood f	ormino	g small	clonal	colonie	es, flow	ering i	n sum	mer.			•			•	•	•	•	•	-	•		•	•	
* Pterostylis falcata	s	S	0	0	N	N	D	D	J	J	F	F	М	М	А	А	М	М	J	J	J	J	А	А

There is confusion between *P. falcata* and *P. furcata*, which were for some time considered synonymous, exacerbated by the new *P. lustra* (a small lookalike of *P. falcata*). The well-known occurrences of *P. falcata* in the North West proved to be *P. lustra*. Examination of herbarium specimens confirmed the presence of *P. falcata* from northern Tasmania. On the mainland, *P. falcata* is regarded as flowering between September and January. Based on herbarium records, there may be a peak in late December into January in Tasmania.

Genus and Species			SPF	RING					SUN	MMER					AUT	TUMN					WI	NTER		
Pterostylis foliata	S	S	0	0	N	N	D	D	J	J	F	F	М	M	А	А	М	М	J	J	J	J	A	А
A late spring greenhood but with	ı an ex	tended	flower	ing per	riod as	it occu	ırs fror	n lowla	and up	to 100	0 m alt	itude.		·I	<u> </u>					1				
Pterostylis furcata	S	S	0	0	N	N	D	D	J	J	F	F	М	M	А	А	М	М	J	J	J	J	А	А
There is confusion between <i>P. fa</i> considered to be a species of hig December at lower elevations th	gher alt	titudes	and col	old river	r basin	ns, and i	is know	wn fron																
* 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 μ readily identifiable because of th																				the tir	me. Wi	thering	, flower	's are
Pterostylis Xingens	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 apparent natural hybrid betw when <i>P. falcata</i> is in flower (see been recorded. The indicated flo	also co	ommen	nts unde	er <i>P. fa</i>	alcata a	and P. ft	furcata)). The (only tw	vo confii	irmed c													
Pterostylis lustra	S	S	0	0	N	N	D	D	J	J	F	F	М	M	А	А	М	М	J	J	J	J	А	А
This new species was described falcata actually occurs in Tasmar											rences	of <i>P. f</i>	alcata	in the	North \	Nest pr	oved t	o be P.	. lustra	and th	nere is	now do	oubt th	at P
Pterostylis melagramma	S	S	0	0	N	N	D	D	Τ.		F		М	М	A	Α	M	М					A	A

This is one of four species in the *P. longifolia* 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 can be dissected and the labellum examined to make an identification.

Genus and Species			SPF	RING					SUN	/IMER					AU ⁻	TUMN					WI	NTER		
ļ				8						1		1	1	1	_	1		1		1	1			
Pterostylis mutica	S	S	0	0	N	N	D	D	J	J	F	F	М	M	А	А	М	M	J	J	J	J	А	А
A species of uncertain status in T Species in the <i>P. mutica</i> complex examination of the labellum appe occur.	(P. m	utica,	P. rube	nachii,	P. wa	pstraru	m) and	P. cyc	cnocep	<i>hala</i> co	mplex	(P. pra	atensis	, P. zie	geleri)	are sin	nilar in	genera	al appe	arance	and re	equire (close	
Pterostylis nana	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 spring greenhood forming clona	al colo	nies, w	ith ros	ettes p	resent	at flow	vering	time.																
Pterostylis nutans	S	S	0	0	N	N	D	D	J	J	F	F	М	M	А	A	M	M	J	J	J	J	А	А
This species has one of the longe produce flowers in any one seaso		/ering	periods	of <i>Pte</i>	erostyli	s in Tas	smania	, often	flower	ing du	ring wi	nter ar	nd sprir	ng. It f	orms e	xtensiv	e clona	al color	nies, bu	ıt only	some (of the p	olants	
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
The species in the complex comp flowering time. Rosettes often alr differentiated from <i>P. atriola</i> (wh	eady f	ormin	g on flo	wering	g plants	s later i	in the	lowerir	ng peri	od. <i>P.</i>	parviflo	<i>ora</i> is a	n autu	mn gre	enhoo	d. Finis	hed flo							and
Pterostylis pedoglossa	S	S	0	0	N	N	D	D	J	J	F	F	M	M	A	А	М	М	J	J	J	J	А	Α
A lowland autumn greenhood for	ming c	lonal c	colonies	s with r	osette	s prese	ent at f	lowerin	g.															
	S	S	0	0	N	N	D	D		J	F	F	М	М	A	A	М	М	l .	J	J		A	A

Genus and Species			SPF	RING					SUM	MMER					ΑU	ΓUMN					WI	NTER		
Pterostylis plumosa	S	s	0	0	N	N	D	D	J	J	F	F	M	M	А	A	М	M	J	J	J	J	А	А
The larger of two distinctive gree	enhood	ls with	yellow	plumo	se labe	ellum (t	he oth	er <i>is P.</i>	tasma	anica) a	and a re	osette	at flow	vering t	ime.	1		1				<u>I</u>		<u>.</u>
* 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 cycnocephala complex (P. prater and a withering rosette at flower	nsis, P.	ziege																						vers
* Pterostylis rubenachii	S	S	0	0	N	N	D	D	J	J	F	F	М	M	А	А	М	М	J	J	J	J	А	А
A species of restricted distribution mutica complex (P. mutica, P. rulabellum appendage. They are st	ıbenac	hii, P.	wapstra	arum)	and P.	cycnoc	ephala	compl	ex (<i>P.</i>	praten	sis, P. z	ziegelei	me gei <i>ri</i>) are	neral a similar	rea but in ger	in ext eral ap	remely	coasta	al grass d requi	sland o	nly. Sp e exam	ecies i	n the F). }
* Pterostylis sanguinea	S	S	o	o	N	N	D	D	J	J	F	F	М	М	A	А	M	М	J	J	J	J	A	А
A winter greenhood from the No	rth Eas	st and	Bass St	trait isl	ands di	istingui	shed b	y its la	rge re	d flowe	rs and	leafy s	tem, b	out rose	ettes al	osent a	t flowe	ering ti	me.					
Pterostylis scabrida	S	S	О	0	N	N	D	D	J	J	F	F	М	М	А	А	М	М	J	J	J	J	А	А
A short sturdy greenhood from n high elevations.	nainly	higher	altitud	es, for	ming cl	onal co	olonies	with ro	settes	prese	nt at flo	wering	g. Flow	ering t	ime de	pends	on altit	tude ar	nd can	be as I	ate as	early F	ebruar	y at
* Pterostylis squamata	S	S	0	o	N	N	D	D	J	J	F	F	М	М	А	А	М	М	J	J	J	J	А	А
A midsummer greenhood with re	eddish	flowers	s and a	rosett	e that i	is withe	ering a	t flowe	ring tir	ne, gro	wing ir	dry sa	ands o	r grave	els.									

Genus and Species			SPF	RING					SUN	/IMER					AUT	UMN					WI	NTER		
Pterostylis stenochila	S	S	0	0	N	N	D	D	J	J	F	F	М	M	А	А	М	М	J	J	J	J	A	A
This is one of four species in the <i>P. longifolia</i> complex in Tasmania, comprising <i>P. melagramma</i> , <i>P. stenochila</i> , <i>P. tunstallii</i> and <i>P. williamsonii</i> . They are characterised by spreading linear st 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 fertilis flowers can be dissected and the labellum examined to make an identification. **Pterostylis tasmanica** S S O O N N D D J F F M M A A M M J J J J A																								
Pterostylis tasmanica	S	S	0	0	N	N	D	D	J	J	F	F	М	М	А	А	М	М	J	J	J	J	Α	А
The smaller of two distinctive gr	eenhoo	ds with	າ yellov	v plum	ose lat	ellum ((the otl	her <i>is</i> .	P. plun	<i>10sa</i>) а	nd a ro	sette a	at flowe	ering ti	me. It	has a	coastal	distrib	ution.					
* Pterostylis tunstallii	S	S	0	0	N	N	D	D	J	J	F	F	M	M	А	А	M	M	J	J	J	J	A	A
leaves and the absence of rosets	tes at fl	lowerin	ng time.	. They	flower	from w	inter to	o early	spring	g, and a	are eas	ly disti	inguish	ed by	the col	our an	d shape							
Ptoroctylic uliginosa	S																				1	,		
his is one of four species in the <i>P. longifolia</i> complex in Tasmania, comprising <i>P. melagramma</i> , <i>P. stenochila</i> , <i>P. tunstallii</i> and <i>P. williamsonii</i> . They are characterised by spreading linear stem eaves 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 owers can be dissected and the labellum examined to make an identification. <i>P. tunstallii</i> is only known from the eastern Bass Strait islands.																								
The species in the complex comp	prising	P. aph	ylla, P.	parvifi	flora, P.	atriola	and P.	P. uligin			entified	by flo	ral fea	tures b	out also	by a c	ombin	ation o	f fleshi					
The 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 and flowering time. Flowering plants generally without rosettes but these appearing shortly after. In Tasmania <i>P. uliginosa</i> is a summer greenhood with a short flowering period.														nabitat	and									
The species in the complex comp	prising genera S	P. aph ally with S	ylla, P. hout ro	parvifi osettes 0	Flora, P. but the	atriola ese app N	and P. Dearing D ng with	P. uliging shortl D h P. zie	J J egeleri.	J Specie	entified smania F	by flo P. ulig F	ral fea ginosa i M	tures b s a sur M	out also mmer (A	by a cgreenho	combination of with M	ation o h a sh M machii,	f fleshi ort flov J P. wap	J Destraru	J m) and	J P. cyc	nabitat A noceph	and A

This is one of four species in the *P. longifolia* 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 can be dissected and the labellum examined to make an identification.

Genus and Species		SPRING							SUN	MER					AUT	UMN					WI	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	А	А

This species now includes both coastal populations (e.g. Cape Portland) and inland populations (which used to be known as *P. cycnocephala*) and occasionally co-occurs with *P. wapstrarum*. Species in the *P. mutica* complex (*P. mutica*, *P. rubenachii*, *P. wapstrarum*) and *P. cycnocephala* complex (*P. pratensis*, *P. ziegeleri*) are similar in general appearance and require close examination of the labellum appendage. They are short fleshy plants with small flowers and a withering rosette at flowering time.

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	А	А	М	М	J	J	J	J	A	ı
---------------------	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---

A distinctive spring orchid flowering profusely after hot fires, 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.

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, perhaps early December. There have been recent reports of the species still in flower in later March (24-26) in northeast Tasmania.

AUTUMN

WINTER

SUMMER

Genus and Species

SPRING

Spiranthes This genus is represented in Ta still uncertain but it occurs at h narrow leaves is usually hidden	igher el	evatior	ns. Unles:	s in flo	ower ((the bri	ght pin	nk spira	al inflor	rescend	ce is ur	mistak	able),	the pla	ants ar	e virtua	ılly imp	ossible	to de	tect be	cause	the ba		
Spiranthes australis	S	S	O	o	N	N	D	D	J	٦	F	F	M	М	А	А	М	М	J	J	J	J	А	ļ
This species grows in the marg for some weeks after).	ins of lo	wland	ephemer	al swa	amps	and ma	arshes a	and is	best se	earched	d for in	the flo	wering	perio	d (but	ertilise	d inflor	escend	es rer	main st	anding	and re	ecognis	abl
Spiranthes alticola	S	S	0	0	N	N	D	D	J	J	F	F	M	М	А	A	М	M	J	J	J	J	А	A
				very c	difficul	It to de	termine		wo spe	cies ba	ased or				ens but	higher	elevat	ion col	lection				asman	
have been made in late Januar Thelymitra Thelymitra species are generall are rarely of assistance in ident	y and ea y mid s ification	pring to	o early su	very of e.g. We umme tan be	difficul loods I	It to de Lake). The Perers, a sified by	termine The typ a little exami	e the tope spectrum. Iater a ination	t highe	ecies ba was col er altitu colum	ased or llected udes. A n but t	on 20 l	es have	e a sin	ens but T). gle bas xperier	al leaf	that ap	opears	month	ns of <i>Sp</i> ns befo buds a	re flow	es in T	out leav	ia /es ul a
Thelymitra Thelymitra species are generall are rarely of assistance in identified are often not fully develop without ever opening. Once fer	y and ea y mid s ification ed and tilised,	pring to	o early su species colour. All hitra plant	umme an be specie ts can	er flow ident es open	erers, a ified by en their st well	termine The type a little exami flower into the	later a ination rs in ree e next	t higher of the sponse season	ecies ba was col er altitu colum e to wa	ased or llected udes. A n but t rm sun	on 20 l	es have	e a sin	ens but T). gle bas xperier eadily,	al leaf	that ape coluntardily	opears ons of y	month young or wea	ns of <i>Sp</i> ns before buds a ather, o	re flow re usu quite a	ering bally no few se	out leav t helpf lf-polli	/es ul a
Thelymitra Thelymitra Thelymitra species are generall are rarely of assistance in identithey are often not fully develop without ever opening. Once fer well to fire (slashed fire breaks	y and ea y mid s ification ed and tilised,	pring to	o early su species co blour. All hitra plant les are al	umme an be specie ts can	er flow ident es open	erers, a ified by en their st well	termine The type a little exami flower into the	later a ination rs in ree e next	t higher of the sponse season	ecies ba was col er altitu colum e to wa	ased or llected udes. A n but t rm sun	on 20 l	es have	e a sin	ens but T). gle bas xperier eadily,	al leaf	that ape coluntardily	opears ons of y	month young or wea	ns of <i>Sp</i> ns before buds a ather, o	re flow re usu quite a	ering bally no few se	out leav t helpf lf-polli	/es ul a nat
its flowering time in this State is have been made in late January Thelymitra Thelymitra species are generall are rarely of assistance in ident they are often not fully develop without ever opening. Once fer well to fire (slashed fire breaks) Thelymitra aggericola A pale-blue species, typically from the properties of the state of the sta	y mid s ification ed and tillised, and roa	pring to the state of the state	o early su species colour. All hitra plant les are all	umme ean be specie ts can lso a g	er flow ident es open persi good e	erers, a fifted by the ntheir st well environment.	a little e examing flower into the ment to	later a ination re next o searce	t higher of the sponse season	ecies ba was col er altitu colum e to wa	udes. An but t	on 20 I	es have uires s ither, s capsule	e a sin ome e ome r es but	gle bas xperier eadily, identif	al leaf ice. The others cation	that ape colum tardily at this	opears nns of y . In po stage	month young or wea	ns of <i>Sp</i> ns before buds a ather, o	re flow re usu quite a	ering bally no few se	out leav t helpf lf-polli s resp	ia /es ul a

Genus and Species			SPI	RING					SUN	MER					AUT	TUMN					WI	NTER		
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
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
helymitra aristata S S O O N N D D J F F M M A A M M J J J J J A The tallest and sturdiest species in Tasmania, with numerous large flowers. This species is easily identified by the distinct column hood. Responds well to fire, although often those plants a corter than usual. It has a fairly long flowering period but with an apparent peak in November, perhaps a little later in western areas. This is one of the few species where a reasonably estive identification can be made based on fertilised specimens because of their stature and remnants of the column.																								
Thelymitra atronitida	S	S	o	o	N	Z	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> which also has pink brushes, and									nia. So	far ear	ly Nov	ember	appea	rs to be	e the b	est sur	vey wi	ndow.	The sp	ecies is	s close	to T. n	nalvina	1,
* Thelymitra benthamiana	S	S	0	0	N	N	D	D	J	J	F	F	М	М	А	А	М	М	J	J	J	J	А	А
Impossible to confuse with any of	other T	asmar	ian spe	ecies. F	Recorde	d from	two co	olonies	on Flir	nders Is	sland o	nly, wh	nere th	ey beg	in flow	ering i	n the fi	rst we	ek of N	lovemb	er.			
* Thelymitra bracteata	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 T. paul	ciflora (comple	ex and s	still po	orly kn	own. Tł	ne mai	n know	n Tasr	manian	site ha	d fully	flower	ing sp	ecimen	s in the	e first \	week o	f Nove	mber.				
Thelymitra brevifolia	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> purplish tinge.	ciflora (comple	ex and	still po	orly kn	own. It	is one	of the	few sp	pecies 1	hat ca	n be id	entifie	d with	easona	able ce	rtainty	from	the sca	brous,	wide fl	at leaf	with	
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 con	fused v	with <i>T.</i>	rubra,	disting	guished	from i	t by th	e erect	and s	lender	columr	arms.		•	•	•	•	•			•	•		•

Genus and Species			SPR	RING					SUN	MMER					AUT	UMN					WI	NTER		
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 w	te flowering species with a wide elevation range (sea level to 700 m)												e indic	ated pe	eriod.	l		l		1	1	1		
Thelymitra cyanea	s	S	0	0	N	N	D	D	J	J	F	F	М	М	А	А	M	М	J	J	J	J	А	А
One of the later flowering specie erosa is just about finished. Flow					confus	ed with	T. erd	osa alth	nough t	the col	umn is	distinc	tive. W	here th	ne two	specie	s grow	togeth	ner, <i>T.</i>	cyanea	starts	flower	ing wh	nen T
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 specie <i>T. erosa</i> is just about finished. F						ed with	T. cya	anea al	though	n the co	olumn i	s distir	nctive.	Where	the tw	o speci	es gro	w toge	ther, 7	. cyan	<i>ea</i> star	ts flow	ering v	vhen
Thelymitra exigua	S	S	0	0	N	Z	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>	ciflora (comple	x and s	still poo	orly kn	own. Ta	asman	ian rec	ords sh	now a p	eak in	flower	ing in t	he firs	t half o	f Nove	mber.							
Thelymitra flexuosa	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 Tasmanian speciestimulated by fire.	es with	yellow	/ flower	s. Rea	sonabl	y positi	ve ide	ntificat	ion car	be ma	ade froi	m fertil	ised sp	pecime	ns beca	ause of	the th	in and	wiry z	igzaggi	ng flov	ver ste	m. Str	ongly
* Thelymitra holmesii	S	S	0	О	N	N	D	D	J	J	F	F	М	М	А	А	М	М	J	J	J	J	А	А
A later flowering species in the 7 very warm sunny days.	Г. раис	iflora c	omplex	distir.	nguish	ed by da	ark blu	ie flow	ers and	d cream	n or yel	low ha	ir tufts	. Searc	thing fo	or this s	species	can b	e diffic	ult as t	he flov	vers or	ıly ope	n on
	S																М						A	A

Largely known from grassy habitats in the northern Midlands but may occur elsewhere. A field character is that the flower segments are broad and overlapping, causing advanced buds and half-closed flowers to have a swollen appearance.

Genus and Species			SPF	RING					SUN	/IMER					AU	ΓUMN					WI	NTER		
Thelymitra improcera	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 as yet poorly known species	from Vi	ictoria	and Kir	ng Islai	nd, wit	h two 1	asmar	nian re	cords f	rom th	e first h	nalf of	Novem	ber.										
Thelymitra inflata	S	S	0	0	N	N	D	D	J	J	F	F	М	М	А	А	М	М	J	J	J	J	А	А
Thelymitra inflata S S O O N N D D J F F M M A A M M J One of the species in the <i>T. pauciflora</i> complex and still poorly known, with Tasmanian records from late November to mid December.																								
Thelymitra Xirregularis	S	S	0	0	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 be	etween	T. ixio	<i>ides</i> an	d <i>T. ca</i>	rnea, l	out the	name	is also	applie	d to ve	ry simi	lar hyb	orids in	volving	T. jur	ncifolia	and <i>T.</i>	rubra.		•				
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 dumping large flowers.	g grour	nd for a	ny spo	tted su	ın-orch	nid, esp	ecially	T. jun	cifolia,	but the	ey can	be sep	arated	by col	umn de	etails.	T. ixioid	des has	s sturd	y stem	s and u	sually	numer	rous
* 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
The broad flowering period indic search window of about a week buds, a character that can be us years.	either s	side of	1 Nove	mber.	The co	olumn i	s unmi	stakab	le and	can be	used t	, o ident	tify imi	mature	and re	ecently	finishe	d flowe	ers. Th	is spec	ies also	has d	listincti	ive
Thelymitra juncifolia	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 was previously incluidentified by column structure.	uded in	T. ixio	oides, b	ut is m	ore co	mmon	and wi	despre	ad. It I	nas thii	nner ar	d more	e wiry	stems,	and fe	ewer, sl	ightly	smalle	r flowe	rs but (can on	y be po	ositive	ly
Thelymitra longiloba	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 poorly known species with an	appare	nt flow	ering p	eak sp	anning	Nover	nber.			1	1						1	1				1		.1

Genus and Species			SP	RING					SUI	MER					AU	TUMN					WI	NTER		
Thelymitra lucida	S	S	О	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 T. pau	ciflora (comple	ex and	still po	orly kn	own fro	om Tas	mania	with th	ne only	flower	ing red	ord in	the firs	st weel	k of No	vembe	r.						
* Thelymitra malvina	S	S	0	0	N	N	D	D	J	J	F	F	M	М	А	А	М	М	J	J	J	J	А	А
At least at Coles Bay this specie	s is sor	newha	t diffic	ult to c	listingu	ish fror	n the c	closely	related	l T. atr	onitida	. Most	flower	ing rec	ords ar	re from	the fir	st half	of Nov	/ember	-			
Thelymitra Xmerraniae	s	S	o	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	. ixioide	es/jund	cifolia a	and <i>T.</i>	<i>nuda</i> is	poorly	knowr	n from	Tasma	nia, wi	th just	a sing	le reco	rd fron	n early	Nover	nber.	•		•	1		•	_
* 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 Tasmanian records, November a									ection	from t	he Arth	ur-Pie	man Co	onserva	ation A	rea on	10 No	vember	2009	. Based	d on Vid	ctorian	and	
Thelymitra nuda	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 large-flowered species with fre	eely op	ening 1	flowers	s, often	confus	ed with	n mem	bers of	the T.	paucii	flora co	mplex						·		1			1	
Thelymitra pauciflora	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 flowered, tardily opening species have been described with																	ed sun	-orchid	s that	weren	't <i>T. nu</i>	<i>da</i> . Se	veral n	ew
Thelymitra peniculata	S	S	o	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. pau</i>	ciflora (comple	ex and	still po	orly kn	own fro	m Tas	mania	, where	most	record	s are fi	rom No	vembe	er.									

Genus and Species			SPF	RING					SUN	MMER					AUT	TUMN					wı	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 r	ecies with a distinctive and more colourful column than other spec											y fire.												
Thelymitra rubra	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 common and widespread speci stimulated by fire.	es. It i	s easily	y recog	nised I	oy its b	oright p	ink flo	wers b	ut wat	ch for 7	T. carne	ea, fror	n whicl	h it is c	listingu	uished	by the	toothe	d colur	nn arm	s. Flov	vering	strong	ly
Thelymitra silena	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 as tall and sturdy as th	ne well-	-knowr	T. aris	stata b	ut easi	ly distii	nguish	ed by t	he dist	tinctive	colum	n.		•		•				•	•	•	•	•
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
A highland species known in Tasi	mania	from M	lathinn	a Plain	s, whe	re it flo	wers i	n early	Decen	nber.														
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 or	nly rec	orded	in the N	North V	Vest, w	here it	flower	ed in t	he firs	t half c	f Nove	mber.		•		•				•	•	•	•	•
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 altitude species w	ith spa	arse ha	ir tufts	, so fai	r only l	known	from S	nug Ti	ers and	d Mt W	ellingto	n, whe	re it flo	owers a	round	early J	lanuary	/.			•	•	•	
Thelymitra Xtruncata	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 is a natural hybrid between members of the *T. ixioides* complex (probably mostly *T. juncifolia* in Tasmania) and the *T. pauciflora* complex (several species potentially involved) and appearing with a wide array of different columns, depending on the parents. Flowering is likely to match that of its local parents.

Genus and Species	enus and Species SPRING								SUN	MER					AUT	UMN					WI	NTER		
Thelymitra viridis	S	S	0	О	N	N	D	D	J	J	F	F	М	М	А	А	М	М	J	J	J	J	А	А

A small species with a distinctive light green overall colour, including its typically short swollen buds, widespread in swamp margins and wet coastal heath. Note that this species was (incorrectly) described in *The Orchids of Tasmania* under the name *T. arenaria*.

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 O O N N D D J J F F M M A A M M J J J J A A

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 Years Day.

* Thynninorchis nothofagicola S S O 0 Ν Ν D D M Μ M M Α Α Α Α

This species is known from one site in wet forest in the South West, 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 late January and be repeated two or three weeks later.

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.

Townsonia viridis S S 0 0 Ν Ν D D Μ Μ Α Α Μ Μ Α Α

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