TOWNSVILLE ORCHID SOCIETY INC.



June 2018 Bulletin

Full contact details are on our website http://townsvilleorchidsociety.org.au

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Patron:Phyllis MerrittPresident:Jean Nicholson

Email: townsvilleorchidsociety@gmail.com

Secretary: Jeff Knowles
Treasurer: Ron Scott

Bulletin Editor: Noel Grant Email: grantnml@bigpond.com

Annual Membership Fees are due 1st September each year Family \$20.00 Pensioner Family \$10.00 Single \$15.00 Pensioner Single/Junior \$7.50

Country Family: \$10.00

Details for paying membership fees: BSB: - 064823

Account Number: - 0009 0973

Name of Account: Townsville Orchid Society Inc.

Commonwealth Bank, Aitkenvale.

Are you currently un-financial? To remain a member of the Townsville Orchid Society Inc. and to continue to receive the *TOS Bulletin*, you MUST pay your annual membership.

<u>Judges for June 2018:</u>

Veterans/ Open Marie/Charlie Novice/Species
Peter/Ted

<u>IUNE</u>							
Lyn Carlill	2						
Mila Dolan	4						
Rob Sweeney	4						
Noel Hardwick	7						
Graham MacKenzie	8						
Ross Tucker	12						
Lawrence Piva	13						
Joanne Schramm	14						
Walter Martin	18						
Donna Marnock	21						
Allan Hughes	25						
Terry Ruxton	26						
Betty Sheret	28						



President's Comments:

We have a very busy time ahead during the month of July, with our Winter Show on

IULY Neita Coulson 2 Leonie Johnson 4 Vikki Warren 4 Peter Depperdene 5 7 Alan Dean Irwin Feldt 7 7 Beryl Philippi Alan Sheret 10 Marie Condon 13 Ian Allen 24 Alice Siarni 25 John Luecke 31

22nd July. We usually set up and decorate the day before, so all are welcome to come along to help. Time will be announced at this June meeting. A list will be circulated for names of members who wish to attend the Luncheon. We must also stress that payment should be made as early as possible as numbers are required for the company catering – these are usually required one week before the event. See details later in this Bulletin.

13-15th July and then our Christmas In July Luncheon on our meeting day,

I also urge everyone to add their name to the Winter Show Roster and make it easier for the members who work each day. For new members who assist, the kitchen supplies sandwiches etc. for your lunch, so see the kitchen ladies if you have any special requests re diets, when you arrive to work. Members have a Sales Table where they may place ten plants each day for sale.

The Tropical Queensland Orchid Council, which includes Orchid Societies from Atherton to Mackay is due to meet on Saturday,16th June at our Hall for their quarterly meeting. As the representative from our Society, I had been previously instructed by our Management Committee to put forward the suggestion that the T.Q.O.C. Inc. Conferences be held every three years because of the lack of Societies to host these conferences each year. I think it is a great shame but hosting has become so expensive and some Societies do not have the man-power or the finance to hold them. Will let you know the outcome at our June meeting.

We were happy to welcome more new members at our May meeting and again extend the invitation to new members – do not hesitate to speak to some of our senior members if you have any queries.

Remember you must sign the Attendance Book on arrival at the meetings, so that you are covered by our

Insurance.

Yes, we are having some cool breaks in the weather but it is a lovely change. Jean Nicholson

Minutes from the Management Committee Meeting held 25th May, 2018

Meeting opened: 7:36pm by President Jean Nicholson

Present J Nicholson, K Ritchie, G Kelly, J Knowles, T Ruxton, N Grant, L Johnson, C Lee, J Cairns, S Cairns, R Dundas

Apologies R Rasmussen, P Lucke,

Visitors Nil

Minutes

Motion: That the minutes of the previous meeting be accepted as a true and correct record

M: J Knowles S: N Grant Carried

Business arising:

• What to do to remember Life Members Wal, Min and Ray is still under discussion. J Nicholson, after discussion with B Robinson, suggested a "Life Members' Honour Board".

Correspondence

Newsletters/Catalogues: West Brisbane, Sichuan Tour, Neutrog, Childers and Isis, B Maloney, South Coast SA, "Australian Orchid Review", AOS "Orchids", Herb Society x2, Bowen Garden Club, MacLean, Eastern Districts OS x2, Gladstone, Cairns, Ipswich, Ingham, Mackay, Rockhampton, Nightcliff, Orchid Mania, KIP Orchid Nursery

Mail: C Mobile- Invoice of \$49.80, Philosophie - invoice of \$400.00, WeightWatchers Workflow - \$950.0, Nuleaf - invoice of \$92.00, Norm Hyatt Locksmith - Offer to service the safe, Orchids Qld Inc - CD of 2017 Qld awards, Campbells Coaches - invoice of \$1155.00 for Ingham trip, Bowen Orchid AFS - Field day 20th May, Australian Tax Office - Information sheet esp. GST, John Bewert - Bunnings pots, Charters Towers Orchid APSI - New field day date of 16Sept2018, Independent Rentals - Mini bus hire to Mackay, Peter Lucke - replied to Shirley Jackson re visit to TSV in July, Orchids Qld Inc - meeting on 16June, Weightwatchers (Rebecca Burnicle) - Introduction as new Area Manager, Townsville Garden Club - Bowen bus trip on 19August2018, Fair Trading Qld - "go online" information, Dave (Wilson)-possible pot order, Tropical Qld Orchid Council - Meeting and AGM in TSV on 16June2018, Campbells Coaches - invoice of \$1320.00 for Bowen trip, Sloane O'Neill – Noise, ABA Scales and Cash Registers (Brisbane) - Quote for POS, TripleT (Tee Johnson) - Music tent at TOS winter show, Accurate Systems (TSV) - Cash Register price.

New Member Applications: Mark and Diane Davis. Both accepted into the novice section.

Motion: That the inwards correspondence be accepted and the outwards adopted.

M: J Knowles S: T Ruxton Carried

Business arising: Nil

Treasurer's Report

TOS available funds are healthy. Details are available at monthly meetings.

Motion: That the treasurer's report be accepted and accounts be passed for payment

M: K Ritchie S: L Johnson Carried

Business arising: Nil

Vice President's Reports

Show (G Kelly):

- Signs done, chasing boxes, entry fee is per day, free entry to escorted "old peoples" groups, sets of guidelines have been produced, resolved to have advertising the same as last show, opening times are to be clarified with members at the next meeting, only show exhibitors and workers are entitled to free admission.
- P Lucke suggested we liaise with Townsville Photography Club regarding show photography. Hospitality (R Dundas):
 - The "discolor trophy" due to R Dundas is to be followed-up.

General Business

- Kathy Ritchie welcomed to the Management Committee.
- J Nicholson and K Ritchie will organise and be TOS reps at the TQOC meeting here in Townsville on Saturday 16th June, 2018.
- The Point of Sale issue was discussed and current information will be presented at the general meeting.
- J Knowles reported on the gratuities situation and bus drivers. Resolved to discontinue.
- The 2018/2019 committee will need to investigate costings and payment protocols of bus trips to field days.
- J Knowles reported on the "Noise" issue pointing out that investigations have revealed that TOS hall was not responsible.
- Resolved to hold a "Christmas in July" lunch in conjunction with the July general meeting on 22nd July, 2018. J Knowles to source quotes and menus. Members will be subsidised. Plants will be displayed.
- C Lee volunteered to organise talks at meetings. At Sunday's meeting C Lee will talk on miniature orchids and a "question and answer" session will be included.
- Motion "That we purchase 16 plants as lucky door prizes from Aranbeem Orchids"
 M: G Kelly
 G Kelly will organise.
- J Cairns and S Cairns showed samples of a new club shirt design.
- Resolved that the excess books from the late Roy H to be given away.
- J Knowles, R Dundas and G Kelly gave apologies for the July meetings.
- R Rasmussen (via. J Knowles) reminded that we need to seek advice from members at the general meeting for the cooling of the office and kitchen.

Meeting Closed 9:39pm	
Jean Nicholson - President	Jeff Knowles - Secretary

Important notice relating to car parking.

The car park in front of the Townsville Orchid Society Hall is a public car park that was upgraded by, and is owned by, the Townsville City Council. It is **not** part of the leased area of the Townsville Orchid Society Inc.



Members are advised to only park in the designated parking spaces as parking elsewhere in the carpark, e.g. down the centre, is illegal, inconsiderate to others and will probably void your insurance.

If the carpark is full, please park legally in the parking bays along Charles Street or in the other, easily accessible public carpark on Bamford Lane outside the Kirwan Sports Club, a short walk across the basketball courts.

Thank you for your co-operation. Jeff Knowles Secretary

Results of the Growing Competition Plants for May.

Although not many of the hundreds of growing plants that were issued were actually brought to the May meeting, it was good to see some members making the effort. Your *Vanda* plants may not be in bloom, but many people are interested in seeing how they are growing under different conditions. Why not make the effort to find yours and bring them along? Congratulations to the following winners from our May meeting. Our guest judges were looking for the "healthiest root system".

2183 - Noel and Maureen Grant

2186 - Tina Phillips

2187 – Tina Phillips

The current plants are:

2183 Vanda sanderiana var. albata

2186 Vanda ((Varut Leopard x Dona Isabel Bosch) x V. (Viboon x Varut Fuchsia)) x V. Mungkud

2187 Vanda (Fuchs Harvest Moon x Jukkich Gold) x V. Suksamran Spots

The next set of Growing Competition plants will probably be issued free to members at the August meeting.

Jeff Knowles

Minutes from the General Meeting held 27th May, 2018

Meeting opened: 1:00pm with President Jean Nicholson in the chair

Present 74 as per attendance book.

Apologies 5 as per attendance book.

Visitors Gordon Lamb, Pam Cooper, Jean Dawson, Muriel Sodur.

Minutes

Motion: That the minutes of the previous meeting be accepted as a true and correct record.

M: J Knowles S: R Dundas Carried

Business arising: Nil

Correspondence

Business arising: No new items since Friday night's Management meeting.

Treasurer's Report

President J Nicholson welcomed our new treasurer Kathy Ritchie.

TOS available funds are healthy. Details are available at monthly meetings.

Motion: That the treasurer's report be accepted and accounts be passed for payment.

M: K Ritchie S: M Soper Carried

Business arising: Nil

General Business

- 1. New members Mark and Diane Davis (novice), John and Maureen Draper (novice) and Barry Woodhouse and Ann Richards (novice) were all welcomed into the Society and presented with their welcome information pack and plant.
- 2. "Noise" issues explained. Not caused by TOS or our hall hirers.
- 3. Point of Sale information presented. No decision.
- 4. Winter Orchid Show information presented, including
 - a. volunteers needed for rosters.

- b. Note that members who do not support the show will be required to pay admission.
- c. Please note the times that sales area is available for members to purchase plants.
- 5. We will be holding a "Christmas in July luncheon" at the 22nd July meeting. Book and pay at June meeting.
- 6. The new committee will revisit the rules for payment for bus trips.

Meeting Closed 1:45pm

Jean Nicholson - President

Jeff Knowles - Secretary

Afternoon activities included:

- C Lee presented a talk on miniature orchids.
- P Lucke gave an update on current happenings in the greenhouse.
- "Ask an expert" question and answer.
- T Boon gave the plant commentary.
- Afternoon tea (WOW!).
- Lucky doors and raffles drawn.

"Christmas in July" lunch.

Yeah! Celebration time after a successful Winter Orchid Show!

This catered lunch, by Chef on Call, will be held as part of our General Meeting in July.

Bookings: Now open – make sure your name is on the list. You can email or phone the

Society (see the list of contacts on the front page of this *Bulletin*) to book

your place if you cannot make this Sunday's meeting.

Date: Sunday 22nd July, 2018

Food served: 12:30pm (Note the earlier start)

Drinks: Soft drinks will be on sale. BYO wine. Tea and coffee will be available.

Cost: Members pay only \$25. Guests of members pay \$32. **How to pay:** 1 Pay treasurer Kathy at the meeting this Sunday.

2 Pay directly into the TOS bank account. Make sure you send your name as a reference. (TOS bank details are on the front page of this

Bulletin.)

Setup: The time at which the hall will be set-up, and nibbles organised, will be

announced at the June meeting.

• WINTER SHOW 2018

The Townsville Orchid Society Winter Show will be held from Friday 13th July to Sunday 15th July with set-up of the hall commencing at 11am on Thursday, 12 July 2018.

If you are coming to help with the set-up of the hall, you can bring your plants in at that time - otherwise no plants in the hall prior to 1pm, please.

The use of plant name labels on plastic tridents will continue at this Show. Labels are available on the TOS website http://townsvilleorchidsociety.org.au and will also be available at the June meeting. Don't forget to put your TOS member number on the back of the label.

Please remember that there are no plant sales out of Show times and that members need to be actively supporting the Show to gain free entry to the Show.

Greg Kelly, Show Vice President

If unable to attend as shown below, <u>please</u> try to find a replacement and inform Greg Kelly (Show Chairman). Thank you	shown below, blacement and ow Chairman).	TOWNSVILLE ORCHI Friday 13 th July,		HOW DUTY ROSTER ID SOCIETY INC WINTER SHOW, 2018 Saturday 14 th July, Sunday 15 th July	SHOW, 2018 5th July	Complimentary tea, coffee and plain biscuits are available throughout your rostered shift.	Complimentary tea, coffee and plain biscuits are available throughout your rostered shift.
DATE and TIME	DOOR	RAFFLE	SHOW SECURITY and ENQUIRIES	CLOAKROOM ATTENDANT	CASHIER	ASSISTANT CASHIER	SALES SECURITIES and ENQUIRIES
FRIDAY 13th Indy	1.R Whiting	1. L Johnson	1. T Hobden	M Society	1.A Zierk	1. R Dundas	1. D Hobden
9AM – 12 NOON	S Cairns	A Skinner	2. T Zierk	- N	2. J Johnson	2. N Parker	2. T Phillips
FRIDAY 13th Index	0 t	1 B Short	1 W Court		7 D \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	0 0	1. B Fighera
12 NOON – 3PM	. D . I dgilgs	: סופו סופו סופו סופו סופו סופו סופו סופ		ב ב	D	- N	2. A Knowles
FRIDAY 13 th July 3PM – 5PM	1. B Hughes	1. R Scott	1. J Nuss		1. R Rasmussen		1. K Owens
SATURDAY	- C	4 VV N N 15:5	1. B Robinson	7 0 0 0 0 0	- - - - - - - - - - - - - - - - - - -	0	1. T Phillips
9AM – 12 NOON	i. b nugnes	I. VV Martin	2. K Day	I. M Sopei	I. J JOHNSON	ב. מואק מואק מואק מואק מואק מואק מואק מואק	2. G Lamb
SATURDAY	ر مرطون مرطون		7.07.7		O Corico	7.0.2 \	1. N Grant
12 NOON – 3PM	i. B riugiles		I. I Zielk	I. E 30IIII30II	I.S Callis	I. A Zieik	2. K Day
SATURDAY 14th July 3PM – 5PM	1. B Hughes	1. R Rasmussen	1. K Day.		1.	1. J Nicholson	1.B Woodhouse
SUNDAY	1. B Hughes	1 B V/2 m2242	1. L Johnson	A Social	•	1.	1. C Truscott
9AM – 11.30AM)	ו. די למווומטות	2. K Day	IN OODGI	<u>.</u>		2. A Hughes
SUNDAY 15th July 11.30AM – 2PM	1. B Hughes	1. R Scott	1. J Nuss	A Punchard	1.R Dundas	1. R Whiting	1. K Day
Add your name if you require a sales area:	f you require a		A: I prefer a hanging space: TOS members, A Hughes,	se: TOS members, A	Hughes,		

B: I have no preference for a hanging space: TOS Members, T&D Hobden, B Fighera, G Kelly, A Zierk, T Zierk, C Truscott, K Owens, N Grant, P Lucke, R Scott, R Dundas, R Whiting ½, J Nicholson, P Valmadre,

Tabled Plants for May, 2018.

Bold Type indicates a correction using Orchidwiz.

Bold Type indicates a c			
<u>VETERANS</u>	1 st	Paph Prim N Proper	C Lee
PAPHIOPEDILUM	2 nd		
	3 rd		
CATTLEYA	1 st	Rlc Doctor John Baker	C Truscott
over 115mm	2 nd		
	3 rd		
CATTLEYA	1 st	Rlc Village Chief North 'Green Genie'	W&C Sewell
74mm to 115mm	2 nd	Rth Burdekin Imp x Rlc Burdekin Velvet	G&S Kelly
	3 rd	Rth Burdekin Diamond	G&S Kelly
CATTLEYA	1 st	Rth Burana Beauty	W&C Sewell
Cluster	2 nd	Pcv Golden Peacock	N&M Grant
Clustor	3 rd	C Orglade's Delight	N&M Grant
CATTLEYA	1 st	Bc Hippodamia 'Hunabu'	W&C Sewell
Other	2^{nd}	Eyy Grapelade	W&C Sewell
Offici	3 rd	Eyy Grapelade Eyy Grapelade	N&M Grant
CATTLEYA	1 st	Gct Cluster Bomb	W&C Sewell
_	$\frac{1}{2^{\text{nd}}}$		
Any Other Hybrid	_	Ctna Jamaica Red	N&M Grant
**************************************	3 rd	**************************************)10)16 G
VANDA	1 st	V Jiraprapa x V Tokyo Delight	N&M Grant
65mm and over	2 nd	V Tangerine Stars x V Fuch's Sunset	N&M Grant
	3 rd		
VANDA	1 st	V Roslyn's Best	N&M Grant
under 65mm	2 nd	V Fiftieth State Beauty	G&S Kelly
	3 rd	V Ann Hayes	G&S Kelly
DENDROBIUM	1 st	D Speewah Storm x D. tangerinum	C Truscott
Spatulata	2 nd		
_	3 rd		
TOLUMNIA	1 st	Tolu Capalaba Sun	N&M Grant
	2 nd	1	
	3 rd		
OPEN	1 st	Bc Mount Hood	P&M Cooper
CATTLEYA	2 nd	Rth Orglade's Tradition	K Owens
115mm and over	3 rd	C Unknown	S McKeich
CATTLEYA	1 st	Hknsa Sogo Doll 'Little Angel'	R&E Dundas
74mm to 114 mm	2 nd	Rlc Village Chief North 'Green Genie'	R&E Dundas
/ - 	3 rd	Ctt Sesall's Supernova x C Chocolate Drop	Cairns Family
CATTLEYA	1 st	Bct Sun Mei Gold	R&E Dundas
Any Other Hybrid	$\frac{1}{2^{\text{nd}}}$	Bc Yellow Bird	Cairns Family
Ally Ouler Hybrid	$\frac{2}{3^{\text{rd}}}$	be reliow blid	Callis Failily
CATTIENA	1 st	T4 D. d. D.d.	V 0
CATTLEYA	$\frac{1}{2^{\text{nd}}}$	Ttna Dark Prince	K Owens
Cluster	_		
	3 rd		· ·
DENDROBIUM	1 st	D Arideng Green	Cairns Family
Any Other Hybrid	2 nd	D Burana Green Star	K Owens
	3 rd		
DENDROBIUM	1 st	D John's Charm	K Owens
Spatulata	2 nd	D George Sax x D gouldii	K Owens
	3 rd	D Toro's Lassie x D. johannis	K Owens
VANDACEOUS	1 st	V Somsri Pink	N Palin
65mm & over	2 nd		
	3 rd		
	1	1	

VANDACEOUS	1 st	Rhrds Bangkok Sunset x V Mahogany Gem	F Parker
under 65mm	2 nd	V unknown	Cairns Family
Girder Germin	3 rd	V unknown	Cairns Family
VANDACHOSTYLIS	1 st	V coerulea v Van Prapin	D Dattinger
VIIIODICIOSTILIS	2 nd	Rhrds Bangkok Sunset x V Mahogany Gem	R&E Dundas
	3 rd	Rhrds Bangkok Sunset x V Mahogany Gem	Cairns Family
PHALAENOPSIS	1 st	P Shu Long Golden Star	N Hardwick
Large	2 nd	I Shu Long Golden Star	1 (Harawick
Large	3 rd		
ONCIDIUM	1 st	Burr Eye Candy 'Pinkie'	R&E Dundas
01/012/10//1	2 nd	Zed Calico Gem 'Green Valley	D Dattinger
	3 rd		2 2 minger
ANY OTHER	1 st	Fdk After Dark 'Black Pearl'	P&L Lewis
GENERA	2^{nd}	Bulb Wilmar Galaxy Star	J Johnson
	3 rd	Calanthe William Murray	T Phillips
NOVICE	1 st	Rlc Dal's Dynamite 'Bette'	K Day
CATTLEYA	2 nd	Rlc Tainan Gold x Rlc Burdekin Delight	K&L Wedel
Large	3rd	Rlc Chief Butterfly 'Dragon'	K Day
DENDROBIUM	1 st	D Maynin Uraiwan (Not on Orchidwiz)	R Sweeney
	2^{nd}	D Red Apple	R Sweeney
	3 rd		,
PHALAENOPSIS	1 st	Phal Pinlong Cheris x Phal Strawberry Gem	R Tappenden
	2^{nd}	j	11
	3 rd		
CATASETUM	1 st	Cyc Jumbo Puff	R Sweeney
	2^{nd}	Cyc Wine Delight	R Sweeney
	3 rd	Unknown	M&M Dolan
DENDROBIUM	1 st	Unknown	R Tappenden
	2^{nd}		
ANY OTHER	1 st	Psychopsis Mariposa Alba 'Three Lips'	B Hughes
HYBRID	2^{nd}		
	3 rd		
SPECIES	1 st	C maxima	N&M Grant
CATTLEYA	2^{nd}	C maxima	N&M Grant
	3 rd	C warneri	N&M Grant
CATTLEYA	1 st	B nodosa	N&M Grant
ALLIANCE	2 nd	C luteola	N&M Grant
	3 rd		
DENDROBIUM	1 st	D lineale	J Johnson
	2 nd		
	3 rd		
MISCELLANEOUS	1 st	V luzonica	N&M Grant
	2 nd	Ang eburneum	R&E Dundas
DILLI AFRICESS	3 rd	V falcata	N&M Grant
PHALAENOPSIS	1 st	Phal pulcherrima	N&M Grant
	2 nd	Phal deliciosa	N&M Grant
	3 rd	Phal pulcherrima	N&M Grant
PAPHIOPEDILUM	1 st 2 nd	Paph spicerianum	C Lee
	3 rd		
DIII DODIIVI I IIM	1 st	Dully lile simm	D 0-N 1 C
BULBOPHYLLUM	2 nd	Bulb lilacinum	P&M Cooper
		Bulb lasiochilum	J&M Draper
DADKEDIA	3 rd	Bulb lilacinum	J Johnson
BARKERIA	1 st 2 nd	Bark dorotheae	N&M Grant
	2	Bark dorotheae	N&M Grant

	3 rd	Bark whartonianum	N&M Grant
AUSTRALIAN	1 st	D lichenastrum	N&M Grant
NATIVE SPECIES	2 nd	D bigibbum	N&M Grant
Dendrobium	3 rd	D bigibbum	N&M Grant
FIRST FLOWERING		Nil this month	
POPULAR VOTE	1 st	C Doctor John Baker 'Charlie'	C Truscott
VETERANS	2^{nd}	Bc Hippodamia 'Hunabu'	W&C Sewell
	3 rd	Rlc Burdekin Imp x Rth Burdekin Velvet	G&S Kelly
OPEN	1 st	Cal William Murray	T Phillips
	2^{nd}	Rhds Bangkok Sunset x V Mahogany Gem	F Parker
	3 rd	V unknown	Cairns Family
NOVICE	1 st	Unknown	M&M Dolan
	2^{nd}	Unknown	S Hague
	3 rd	Psychopsis Mariposa Alba 'Three Lips'	B Hughes
SPECIES	1 st	V luzonica	N&M Grant
	2^{nd}	Phap spicerianum	C Lee
	3 rd	Bulb Unknown	K Turner
FIRST FLOWERING		Nil this month	



Registrar's Choice

Hybrid (left)

D Speewah Storm x *D. tangerinum* 84 Points C Truscott

Registrar's Choice

Novice (right)

Rlc Dal's Dynamite 'Bette' 80 Points K Day





Registrar's Choice

Species (left)

Vanda luzonica

79 points N & M Grant

Registrar's Choice

Specimen Plant (right) Bct Sun Mei Gold

R & E Dundas



Points for Tabled Plants after May 2018

Name	Vets	Open	Novice	Species	Aggregate
Berzinski C & Mutch L		8			8
Bloom M	4				4
Boon E				1	1
Bowler N				4	4
Cairns Family		87		1	88
Cooper P&M		26		9	35
Dattinger D		7			7
Day K			22		22
Dolan M & M			10		10
Draper J & M			1	3	4
Dundas R&E		85		12	97
Dylejko Z & B		4			4
Fighera B	42			10	52
Gibson C			5		5
Grant N&M	123			115	238
Hague S			2		2
Hardwick N		4			4
Hardy A		2			2
Hobden T&D				4	4
Hughes A	4				4
Hughes B			79		79
Johnson J		11		18	39
Joynson L				1	1
Kelly G&S	55			3	58
Knowles J&A	6			28	34
Laing E				1	1
Lee C	16			5	21
Lewis P & L		4			4
Lucke P&J	3			27	30
McKeich S		2			2
Nicholson J	56			24	80
Owens K		22		2	24
Palin N		4			4
Parker F		4		1	5
Phillips T		2		10	12
Ruxton T&S		12		4	16
Ryan L			32	5	37
Sanim M		4			4
Serra P				2	2
Sewell W&C	74				74
Sweeney R			20		20
Tappenden R			12		12
Truscott C	23				23
Turner K		29		4	33
Watt G			4		4
Wedel K&L			11		11
Whiting R		50		4	54
Woods S			1		1

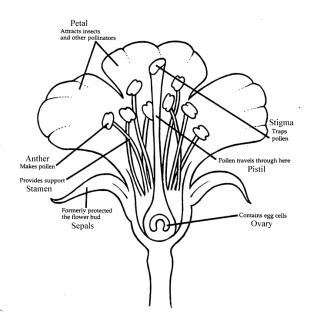
Why is this flower an Orchid?

Orchids belong to the smaller of the two great groups of flowering plants - the monocotyledons (or monocots), which include lilies, orchids, palms and grasses. The larger group contains the dicotyledons (the dicots). The majority of common garden plants, most trees and broad-leafed flowering plants, such as roses and geraniums, are dicots.

Monocots are distinguished by having only one seed leaf in the embryo contained in the seed (dicots have two). Most of you will have grown peas or beans (which are dicots) at some time, and I am sure you all remember those two leaves breaking the ground surface as the young plants sprouted.

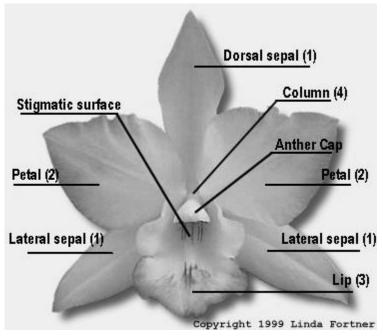
Monocots typically also have flower parts, such as sepals and petals, based on a plan of three (imagine a typical orchid flower), whereas dicots have parts based on a plan of four or five (or multiples thereof). Most monocots have leaves with parallel veins, while dicots usually have a meshlike pattern. The stems of monocots do not have a continuous cambrium layer, or region of new growth, so they do not increase in stem thickness, produce annual growth rings or have woody stems, as do typical trees, which are dicots.

The primary characters that distinguish the orchids as a group are found in the flower.



At the bottom of an unspecialized **non-orchid flower** is the stem that supports it, called the **pedicel**. Directly above, and at the base of the flower itself, is a whorl of green, leaflike organs called **sepals**. Above and inside the sepals is a second whorl of coloured **petals**. These are the asexual parts ("asexual" means NOT sexual) and they are developed to protect the flower or to attract a pollinator. Inside (also arranged in whorls) are the sexual portions of the flower. First are the male **stamens**, which consist of a **filament** (the slender stalk that supports the anther) and an **anther** (usually an arrangement of four sacs filled with loose pollen grains). There may be several whorls of stamens. In the

centre of the flower is the female <u>pistil</u>, which is composed of an enlarged portion (the <u>ovary</u>) topped by a stalklike <u>style</u> with a <u>stigma</u> at its apex. The <u>pollen</u> in the anther is powdery and is usually carried from the anther of one flower to the stigma of another flower by a pollinating agent (moth, fly, bird etc).



The usual **orchid flower** is also supported on a pedicel. The ovary, however, with its ovules, seems to be an integral part of the pedicel because it is embedded within the upper portion of the pedicel below the attachments of the petals. The orchid flower is thus said to have an inferior ovary. The sepals and petals are usually similar, often highly coloured, and in sets of three. One petal is developed as a landing platform for the pollinator and is called the <u>lip</u> (or labellum). Most orchids can be divided by a line from the top of the dorsal sepal to the centre of the lip, where the portion of the flower on the left side of the line can be seen as

a mirror image of the right side. This is described as making the flower <u>bilaterally</u> <u>symmetrical</u>.

The sexual portions of the orchid flower are quite different from other generalized flowers. All of the male organs and the female organs (the filaments, anthers, style, and stigma) are reduced in number and are usually fused into a single structure called the <u>column</u>. Most orchids have a single anther at the apex of the column. The pollen grains are bound together with a sticky substance in masses called <u>pollinia</u>. As a visiting insect backs out of the flower, the pollinia are picked up from the anther and stick to the body of the insect.

One of the characteristic differences between the orchid family and other advanced monocots is that the fertile stamen or stamens are all on one side of the flower opposite the lip. The lip is oriented upward in the bud, but as it later develops, twisting takes place in the pedicel or ovary so that the lip is usually oriented downward by the time the flower opens, a process called <u>resupination</u>. The lip becomes a handy landing platform for pollinators.

Orchid seeds are extremely small and contain an embryo that lacks endosperm (starchy nutrient tissue). In nature, orchid seeds need the presence of a fungal mat called mycorrhiza in order to germinate. Happily, a method has been found in the laboratory where seeds can be germinated without the fungus, which is why so many orchid seedlings are now available.

It is interesting that all the special characters of orchid flowers, such as the joining of the male and female organs to form the column, the masses of pollen called pollinia, and the tiny seeds without endosperm, are found individually in other groups of flowering plants. However, it is through the combination of all of these characters that we now know the family of flowering plants called the Orchidaceae.

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