

The BEGONIAN



MARCH, 1973

Devoted to the Sheltered Garden

VOL. 40, NO. 3



GENERAL OFFICES

GENERAL OFFICES: dues, address changes, or magazines:
10331 South Colima Road, Whittier, California 90604

Subscription: \$4.00 per year. Foreign (Mexico and Canada) \$4.50. U.S. (Mexico and Canada) 1st Class \$6.00. Foreign 1st Class \$8.00. U.S. Air Mail \$7.00. Pay in U.S. currency only.

Second Class Postage paid at Whittier, California.

ELECTED OFFICERS

President.....John W. Provine
2317 So. Third Ave., Arcadia, Calif. 91006

President-Elect.....Wallace W. Wagner
530 S. Barnett Lane, Anaheim, Calif. 92805

Past President.....Mrs. Margaret B. Taylor
111 Evelyn Dr., Anaheim, Calif. 92805

Secretary.....Mrs. Irene Grannell
1431 Coronado Terrace, Los Angeles, Calif. 90026

Treasurer.....Walter J. Barnett
1213 S. Mullender Ave., W. Covina, Calif. 91790

Vice-President 1 year.....Mrs. Helen Matsubu
Route 1, Box 120, Fruitland, Idaho 83619

Vice-President 2 years.....Jack Golding
47 Cinton Ave., Kearny, New Jersey 07032

Vice-President 3 years.....Charles A. Richardson
5444 Hartwick St., Los Angeles, Calif. 90041

BEGONIAN STAFF

Editor.....Jack C. Bergstrom
129 Agostino Rd., San Gabriel, Calif. 91776

Co-Editor.....Mrs. Alva G. Graham
929 Indiana Ave., So. Pasadena, Calif. 91030

Contributing Editors.....Mrs. Elda Haring,
Mrs. Helen Matsubu, Mrs. Hertha Benjamin,
Mrs. Phyllis Wright

Advertising Manager.....Miss Anne L. Rose
14036 E. Ramona Dr., Whittier, Calif. 90605

Circulation Manager.....Mrs. Pearl Benell
10331 S. Colima Road, Whittier, Calif. 90604

APPOINTED OFFICERS

Awards Chairman.....Mr. Walter Pease
8101 Vicksburg Ave., Los Angeles, Calif. 90045

Business Manager.....Mrs. Virginia Barnett
1213 S. Mullender Ave., W. Covina, Calif. 91790

Historian.....Mrs. Alice Broadhag
9619 Broadway, Temple City, Calif. 91780

Judging Course Director.....Mrs. Ruth Pease
8101 Vicksburg Ave., Los Angeles, Calif. 90045

Librarian.....Mrs. Lydia Austin
15329 Eastwood Ave., Lawndale, Calif. 90260

Membership Secretary.....Mrs. Betty Burrell
14050 Ramona Dr., Whittier, Ca. 90605

Nomenclature Director.....Rudolf Ziesenhenn
1130 N. Milpas, Santa Barbara, Calif. 93103

Parliamentarian.....Mrs. Margaret Ziesenhenn
1130 N. Milpas, Santa Barbara, Ca. 93103

Research Director.....M. Carleton L'Hommedieu
370 Locust Ave., Oakdale, L.I., New York 11769

Round Robin Director.....Mrs. Mae Blanton
Route 4, Box 159A, Louiseville, Texas 75067

Seed Fund Administrator.....Mrs. Florence Gee
234 Birch St., Roseville, Calif. 95678

Show Chairman.....Mrs. Cecelia Grivich
2808 S. Baldwin Ave., Arcadia, Calif. 91006

Slide Librarian.....Mrs. Katharine Alberti
3322 Troy Dr., Hollywood, Calif. 90028

Public Relations Director.....Mrs. Peggy McGrath
1724 Solejar Dr., Whittier, Calif. 90603

Northwestern P. R. Chairman...Mrs. Eleanor Fariss
17721 Bothell Way, Seattle, Wash. 98155

Northeastern P. R. Chmn...Mrs. Raymond C. Cronin
88 Ledgeways, Wellesley, Mass. 02181

Northern Calif. P. R. Chairman...Mrs. John H. Smith
2479 29th Avenue, San Francisco, Calif. 94116

Public Relations Chairman for
Australia, New Zealand, and
New Guinea.....Mrs. Phyl J. Setford
P. O. Box 417, Mildura, Victoria, Australia


Views expressed in this magazine are not necessarily those of the Editors, the Society or its officers.

CONTENTS

Nominating Committee	51
Calendar	51
Leaf and Stem Fall	52
Begonia Shows	
Questions and Answers	56
Begonia D'Artagnon	59
Seed Fund	60
Round Robin	62
Research Report	63
B. Serratipetala	64
Board Minutes	65
Begonia Evansiana	66
Toby's Way With Begonias	67
Cleo Visits A Meeting	68
Branch Directory	70

COVER PICTURE

Tuberous Begonia grown and photo by Frank Reinelt.



**AMERICAN BEGONIA
SOCIETY BOOKLETS**

Point Scoring System for Judging
Begonias\$1.25

A Suggested Guide to Classification
of Begonias for Show Purposes\$1.50

ORDER FROM: Ruth Pease
8101 Vicksburg Ave.
Los Angeles, Calif. 90045

NOMINATING COMMITTEE

President John Provine appointed the following Nominating Committee for officers of the ABS for the coming year: Chairman Mrs. Walter Hansen, 344 Plumas Place, Ventura; Mrs. Hazel Snodgrass and Mrs. Barbara Philip. They will make their report at the March Board meeting.

CALENDAR

March 1 — Westchester Branch — 7:30 p.m. A panel consisting of John Provine, ABS President and Horticulturist at the Los Angeles County Arboretum, Celia (Tootie) Grivich, ABS Show Chairman, and Westchester Branch member Gil Schwerdtfeger will discuss Begonia culture in different areas. Mr. Provine will explain how Begonias are grown at the Arboretum; Tootie will discuss growing under conditions in her yard in Arcadia; and Gil will explain how he grows in our area. These discussions will be followed with a question and answer period. Visit Westchester and learn. Everyone is welcome.

April 5 — Westchester Branch — 7:30 p.m. Our April meeting will present the charm and wit of Mrs. Sylvia Leatherman and "How Are Your Rexes Doing." Visit us and learn and bring a friend.

AIMS AND PURPOSES OF THE AMERICAN BEGONIA SOCIETY, INC.

The purpose of this Society shall be:

- TO stimulate and promote interest in *Begonias* and other shade-loving plants;
- TO encourage the introduction and development of new types of these plants;
- TO standardize the nomenclature of *Begonias*;

- TO gather and publish information in regard to kinds, propagation and culture of *Begonias* and companion plants;
- TO issue a bulletin which will be mailed to all members of the Society; and
- TO bring into friendly contact all who love and grow *Begonias*.

LEAF AND STEM FALL: ABSCISSION as it occurs in *Begonia*

Kamil El Tigani* and Fred A. Barkley
Northeastern University, Boston

*In part material from a Master's Thesis by El Tigani presented to the Biology Department of Northeastern University.

One of the most characteristic occurrences in temperate regions is the autumnal fall of leaves following their period of brilliant coloring. This fall each autumn is due to a regular process of abscission leading to the leaf fall.

In the tropics, in those regions with dry and wet seasons, leaf fall is comparable to that of temperate regions, and occurring at the start of the dry season. *Begonia* growing in such tropical regions often are either annuals (*Begonia franconis* Liebm.) or the above ground portions dry and disappear (*B. boliviensis* A. DC. and *B. socotrana* Hooker f.)

The majority of species of *Begonia* grow in tropical areas where the seasonal variation is not greatly pronounced. In those *Begonia* leaf fall is sporadic and retention of leaves may vary from a few weeks to many months.

In common with the leaves of many genera of flowering plants the leaves of *Begonia* fall when senescence or aging occurs, but also if the lamina is removed or if the petiole is seriously injured before senescence, then abscission of the petiole from the stem occurs in a short time. This is typical for all species of *Begonia*, the exceptions being very few. The fall of the petioles (as well as the stipules and stems) leave characteristic scars (Pl. Ia and Ib).

(In common with a very few other genera of flowering plants) many stems of *Begonia* absciss above the next lower node from where a stem is severed. This does not occur in all species of *Begonia* and in species where it is common in young stems, it is less likely to occur as the stem ages, apparently due to a rather bony or horny xylem tissue in the older vascular bundles preventing easy separation.

In a few species (*Begonia boliviensis* A. DC.) the stem abscisses at the nodes at the period when dormancy starts, so that the internodes separate.

In order to study the abscission of *Begonia* leaves, leaves of two species (*Begonia cucullata* var. *hookeri* Smith & Schubert and *B. maculata* Raddi) were observed. The lamina of several leaves were removed from the petiole in each species. Each day the basal portion of a petiole with the adjacent portion of the stem was removed and microscopic sections were made and studied, until all of the petioles had dropped off. Internodal regions of several stems of each species were severed, and each day a portion of stem including the node just below the injured stem was taken and microscopic examinations made, until all of the stems had abscised.

Apparently the removal of the apical bud of the stem or the removal of the lamina of the leaf stops

the flow of auxin (a plant hormone), which in turn results in a series of reactions in the particular region where abscission regularly occur, the abscission plate.

One of the first things to happen is the accumulation of starch grains in the future abscission plate. Then there is the conversion of calcium pectate to pectin (a solid to a gelatinous consistency) in the middle lamella between the cells and almost immediately a gelatinization of the cellulose walls of the cells in the abscission plate. Almost simultaneously is the initiation of cell division below the point where separation will occur (Plate Ic) producing cork cells. After the fall of the abscised part (which took from four to nine days) the zone continues for a short time to produce the cork cells of the leafscar.

When the pectin is formed and the cellulose walls are gelatinized, and the cells of cork are being formed, the cells of the abscission layer begin to pull apart (Plate Id) and the abscised portion falls at the slightest movement.

BIBLIOGRAPHY

- Addicot, F. T., and R. S. Lynch. Physiology of abscission. *Ann. Rev. of Plant Physiol.* 6: 211-238. 1955.
- Brown, H. S., and F. T. Addicot. The anatomy of experimental leaflet abscission in *Phaseolus vulgaris*. *Am. J. Bot.* 37: 650-656. 1950.
- El Tigani, Kamil Bashir. *Anatomy of stem and leaf abscission in two species of Begonia*. Master's Thesis Northeastern University, Boston. 1969.
- Esau, K. *Plant anatomy*. (Ed. 2) John Wiley & Sons Inc., New York. 1953.
- Gawadi, A. G., and G. S. Avery Jr. Leaf abscission and the so-called "abscission layer." *Am. J. Bot.* 37: 172-180. 1950.
- Irmischer, E. *Begoniaceae*. *Engler und Prantl Die natürlichen Pflanzenfamilien*. (Ed. 2) 21: 548-588. 1936.
- La Rue, C. D. The effect of auxin in the abscission of petioles. *Proc. Nat. Acad. Sci.* 22: 254-259. 1936.
- Leinweber, C. L., and W. C. Hall. Foliar abscission in cotton: macroscopic and microscopic changes associated with natural and chemically induced leaf-fall. *Proc. Nat. Acad. Sci.* 121: 9-16. 1959-1960.
- Metcalfe, C. R. and L. Chalk. *Anatomy of the dicotyledons* 1: 608, 691-695. 1950.
- Neubauer, H. F. Bemerkungen über den bau der Begoniaceen. *Berichte der Deutschen Botanischen Gesellschaft* 80: 80-97. 1967.
- Pfeiffer, H. Die pflanzlichen trennungsgewebe. *Handbuch der Pflanzenanatomie* 5: 166-167. 1928.
- Rubenstein, B., and A. C. Leopold. The nature of leaf abscission. *Quart. Rev. Biol.* 39: 356-372. 1964.

(Explanation of Plates)

Plate I.

- Ia *Begonia maculata* Raddi stem showing stem scar and the developing lateral bud with two stipules, a bud and a leaf.
- Ib *Begonia maculata* Raddi stem showing stem scar and stipule scars at the base of the lateral branch which has grown from the axillary bud of the node where abscission occurred.
- Ic Section of leaf base of *Begonia maculata* Raddi showing cells just below the abscission layer initiating cell divisions which will form the leaf scar. X 60.
- Id The actual start of separation in an abscising petiole of *Begonia maculata* Raddi. X 60.

Plate II.

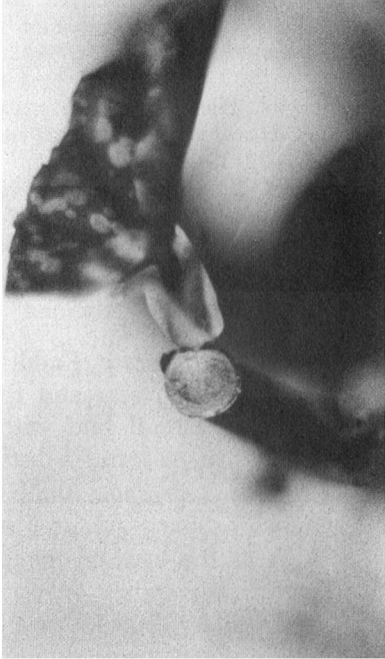
- IIa Longitudinal section of the stem of *Begonia cucullata* var. *hookeri* Smith & Schubert, showing cell division within the vascular tissue. X 45.

I**b** A longitudinal section through the pith region of the stem of *Begonia maculata* Raddi, showing the discontinuity of the vascular strand at the separation zone. X 45.

I**c** Longitudinal section at the node showing incomplete detachment of the stem in *Begonia cucullata* var. *hookeri* Smith & Schubert. X 45.

I**d** A longitudinal section of the stem of *Begonia maculata* Raddi, showing the distribution of starch granules in the abscission zone. X 45.

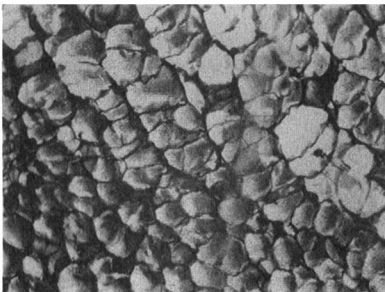
I**e** Longitudinal section in *Begonia cucullata* var. *hookeri* Smith & Schubert, showing the development of the protective layer after leaf abscission. X 45.



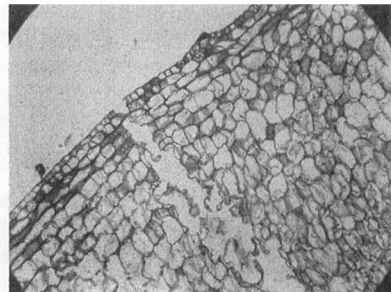
Ia



Ib

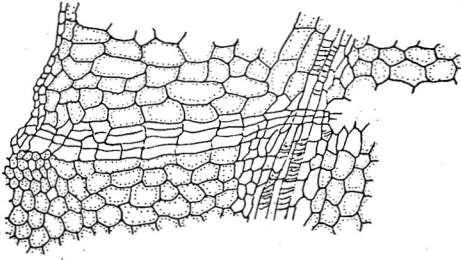


Ic

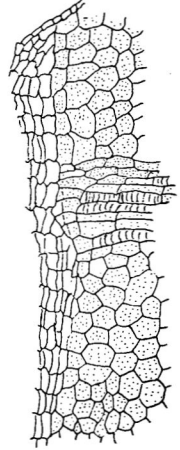


Id

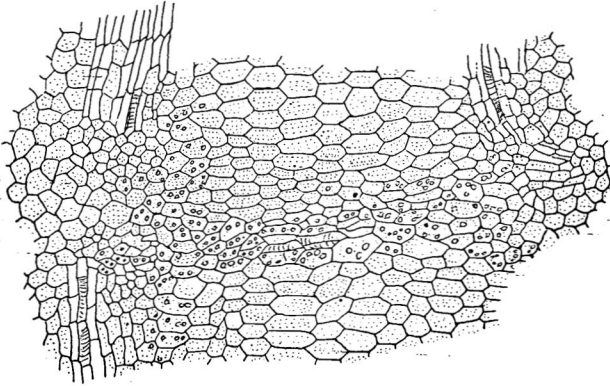
PLATE I



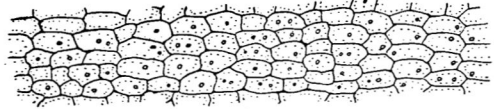
IIa



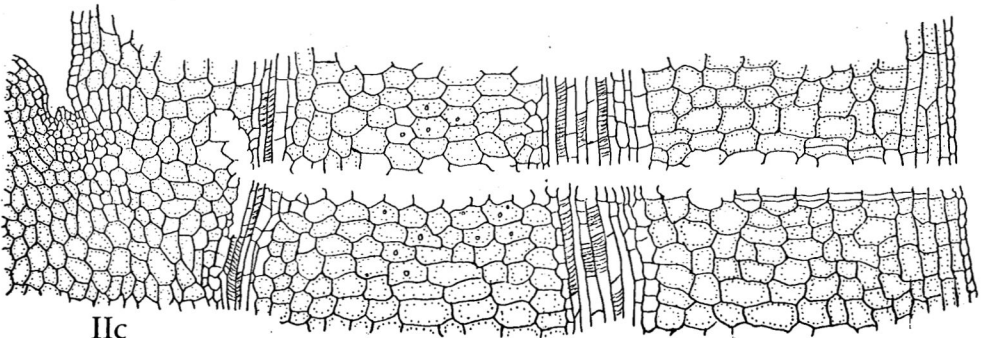
IIe



IIb



II d



IIc

PLATE II

BEGONIA SHOWS — QUESTIONS AND ANSWERS

By Ruth Pease

QUESTION: How do you get all exhibitors to use the same labels on their plants at shows?

ANSWER: We do not have this ruling for our ABS Annual Shows, but we understand this is a requirement in some areas. One or two individuals prepare the labels as each entry is registered at the show.

QUESTION: In my area Pelargoniums are exhibited in shows having Begonias. Will there be a judging lesson on Geraniums and Pelargoniums?

ANSWER: We are not adding lessons to the present course. Our aim was to have accredited Begonia Judges and the additional lessons on judging Ferns, Fuchsias, Gesneriads and African Violets were prepared because they are entered in our Begonia and Shade Plant Shows. There are other companion plants that are also entered, but time did not allow for additional lectures at the end of the class sessions.

We recommend our Judges continue to learn all they can about judging many plant families. Write to the secretaries of these societies and obtain their judging procedures and scoring systems. The information is the next best thing to actually growing the plants and learning from experience.

QUESTION: How will a Judging Chairman know that I now hold an accredited ABS Judges card?

ANSWER: We have stated every so often that our list of Judges is available to any Show or Judging

Chairman requesting a copy. All they have to do is write to me for a copy.

We are going to list the Judges on our list beginning in this issue. Several listed are accredited Federated Garden Club Judges who have completed our application for a Judges Card and who have purchased our Classification Guide, Point Scoring Book, Judging Course or all three publications. Some judges studied years ago and have not really kept up with present-day ABS approved systems, but they are still able to judge intelligently. We select Judges for our Annual Show from those who have kept up with these systems, because it is more efficient to do so.

Judges cards are issued according to the following point system: 2 points for each year of judging; 1 point for each show judged (all shows); 3 points for completing a one year ABS judging course; and $\frac{1}{3}$ point for each show clerked (with judges).

SENIOR JUDGES HAVING 50 POINTS OR MORE:

Mrs. Carl A. Arend, Jr., 6 Laurel Hill Place, Armonk, New York 10504.

Mrs. Dorothy S. Behrends, 442 Orpheus Avenue, Encinitas, California 92024.

Mrs. Wilma Blough, 546 North Loraine Avenue, Glendora, California 91740.

Mrs. Philip Brueckner, 1630 West Covina Boulevard, Space 88, San Dimas, California 91773.

Mrs. Ruby M. Budd, 1188 Quartz Way, Hemet, California 92343.

Mr. William Hull, Jr., Oak Hill Lane, Woodbridge, Connecticut 06525.

Mr. A. Roy Joyce, 1435 Coronado Terrace, Los Angeles, California 90026.

Mrs. Elsie M. Joyce, 1435 Coronado Terrace, Los Angeles, California 90026.

Mrs. Jean Kerlin, 3262 Olive Avenue, Altadena, California 91001.

Mr. Fritz Kubisch, 4114 Vinton Avenue, Culver City, California 90230.

Mrs. Sylvia B. Leatherman, 2637 North Lee Avenue, South El Monte, California 91733.

Mrs. Margaret M. Lee, 1852 31st Street, San Diego, California 92102.

Mr. Paul P. Lee, 1852 31st Street, San Diego, California 92102.

Mrs. Alberta M. Logue, 6053 Lime Avenue, Long Beach, California 90805.

Mrs. Peggy McGrath, 1724 Solejar Drive, Whittier, California 90603.

Mrs. Ruth P. Merry, 109 Brookside Road, Needham, Massachusetts 02192.

Mrs. Bee Olson, 2423 Burritt Avenue, Redondo Beach, California 90278.

Mr. Wilbur Olson, 2423 Burritt Avenue, Redondo Beach, California 90278.

Mrs. Thelma O'Reilly, 10942 Sunray Place, La Mesa, California 92041.

Mr. William R. Paylen, 1008 Gretna Green Way, Los Angeles, California 90049.

Mrs. Ruth Pease, 8101 Vicksburg Avenue, Los Angeles, California 90045.

Mrs. Muriel Perz, 2141 West 29th Street, Long Beach, California 90810.

Mrs. B. A. Russell, 5926 Jackwood, Houston, Texas 77036.

Mr. E. O. Sherer, 11983 Darlington Avenue, Los Angeles, California 90049.

Mrs. Esther M. Sherer, 11983 Darlington Avenue, Los Angeles, California 90049.

Mrs. Hyacinth Smith, 2479 29th Avenue, San Francisco, California 94116.

Mrs. Hazel R. Snodgrass, 265 North Walnut Drive, Ventura, California 93003.

Mrs. Margaret Taylor, 111 Evelyn Drive, Anaheim, California 92805.

Mrs. Marie Zachau, 603 East Kelso Street, Inglewood, California 90301.

Mrs. Margaret Zieshenne, 1130 North Milpas Street, Santa Barbara, California 93103.

Mr. Rudolf Zieshenne, 1130 North Milpas Street, Santa Barbara, California 93103.

JUNIOR JUDGES HAVING 25 POINTS OR MORE:

Mrs. Opal Murray Ahern, Box 387, Western, Nebraska 68464.

Mrs. Jesse C. Akins, 200 East 9th Street, Rome, Georgia 30161.

Mrs. Pearl Bennell, 10331 South Colima Road, Whittier, California 90604.

Mrs. George W. Hopkins, 1619 South Beckley Avenue, Dallas, Texas 75224.

Mrs. Adolf Hufschmid, McAlpin Avenue, Mahopac, New York 10541.

Mr. Irvin A. Kramer, 231 Acton Street, Daly City, California 94014.

Mr. Paul P. Lowe, 23045 S. W. 123 Road, Goulds, Florida 33170.

Mrs. Alice F. Martin, 4692 West 141st Street, Hawthorne, California 90250.

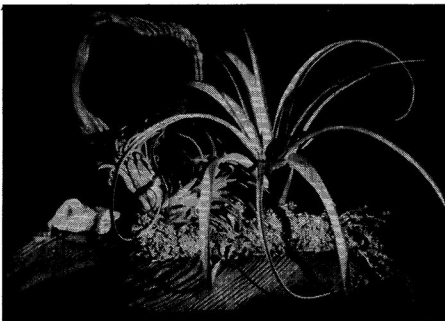
Mrs. Norma Jean Niggli, 224 Hankel Street, Dallas, Oregon 97338.

Mrs. Arline G. Peck, Eagle Peak Road, Pascoag, Rhode Island 02859.

BEGONIAS

Rex and Rhizomatous
Send for List — 10¢

E. A. McWHORTER
2010 Rockland Road
Columbia, S.C. 29210



©'72 John P. Walther

Tillandsia Sculptures

A new concept in decorating with plants! Beautifully grained wood sculptures are mounted with epiphytic Tillandsias. Hand made, signed originals. No two alike. These are ideal companion plants for your Begonias. Easy cultural instructions. Approx. base length 10". \$25.00 each plus 10% postage and insurance. Satisfaction guaranteed. Illustrated brochure of Tillandsia Plaques and Sculptures, 25c.

WALTHER'S *Exotic House Plants*
Dept. B, R.D. #3, Rt. 9-W, Catskill, N.Y. 12414

Mrs. Barbara R. Philip, 600 Camino Campana, Santa Barbara, California 93105.

Mr. Steve Talnadge, 354 "G" Street, Chula Vista, California 92010.

Mrs. George Wilkins, 5223 Monticello, Dallas, Texas 75206.

Mrs. Adele C. Zemansky, 736 Rutland Ave., Teaneck, New Jersey 07666.

SOPHOMORE JUDGES HAVING LESS THAN 25 POINTS:

Mrs. Lorraine Asten, 10519 San Juan, South Gate, California 90280.

Mrs. Bernice K. Decker, 18801 Belview Drive, Miami, Florida 33157.

Mrs. Olivia DePaco, 33 Rice Avenue, East Providence, Rhode Island 02914.

Mrs. James Fariss, 17724 Bothell Way N.E., Seattle, Washington 98155.

Irene Fediaczko, 125 Arlington Avenue, Butler, Pennsylvania 16001.

Mrs. Mort Gilbert, 1249 Lawrence Street, N.E., Washington, D.C. 20017.

Mrs. Cecelia Grivich, 2808 South Baldwin Avenue, Arcadia, California 91006.

Mrs. Frances M. Jean, 8212 Reading Avenue, Los Angeles, California 90045.

Mrs. Annie M. Lueck, 1818 South Gramercy Place, Los Angeles, California 90019.

Mr. Ben Lueck, 1818 South Gramercy Place, Los Angeles, California 90019.

Mr. W. Grant McGregor, 630 Westview Avenue, Ottawa 3, Ontario, Canada.

Mr. Elton A. McWhorter, 2010 Rockland Road, Columbia, South Carolina 29210.

Mrs. Joan Rockney, 507 2nd Street Craehl, Fairbanks, Alaska 99701.

Miss Anne L. Rose, 14036 East Ramona Drive, Whittier, California 90605.

Mrs. Mildred Shirley, 12229 N. E. 62nd Street, Kirkland, Washington 98033.

Mrs. Roman E. Shore, 1211 Pepper Tree Lane, Fallbrook, California 92028.

Mrs. Eleanor Slee, 211 Arlington Avenue, Butler, Pennsylvania 16001.

Mrs. Lola Somes, 4849 W. 130th Street, Hawthorne, California 90250.

Mr. Jim Somes, 4849 W. 130th Street, Hawthorne, California 90250.

Mrs. Lillian Steinhaus, 5632 North Earle Street, San Gabriel, California 91776.

Mrs. Edna M. Stewart, R. D. #2, Box 491, Tarentum, Pennsylvania 15084.

Mr. Charles E. Tagg, 2123 West West Avenue, Fullerton, California 92633.

Mrs. Dorothy M. Talnadge, 354 "G" Street, Chula Vista, California 92010.

Mr. Allen T. Taylor, 1814 N. Johnson Street, Arlington, Virginia 22207.

Mrs. Mildred L. Thompson, 310 Hill Street, Southampton, New York 11968.

Mrs. Don L. Wagner, 3074 Zuland Street, Baton Rouge, Louisiana 70808.

Mr. Wallace Wagner, 530 South Barnett, Anaheim, California 92805.

Mrs. Elizabeth O. Warrick, 6543 26th Avenue N. E., Seattle, Washington 98115.

Mr. Herbert H. Warrick, 6543 26th Avenue N. E., Seattle, Washington 98115.

Mrs. Nellie Weaver, 6123 Corona Avenue, Huntington Park, California 90255.

Mrs. Alta Westover, 1317 North 175th Street, Seattle, Washington 98133.

Mr. Don Westover, 1317 North 17th Street, Seattle, Washington 98133.

Mrs. Gertrude M. Winsor, 14036 East Ramona Drive, Whittier, California 90605.

Phyllis A. Wright, 536 N. E. 98th, Seattle, Washington 98115.

The mimeographed list will contain what plant families the Judges are qualified to judge as well as their requests if they have one for travel fee and distances they are willing to travel.

We request that any questions, additions and/or corrections to the list of Judges printed in the Begonian be forwarded to the Director, ABS Judges Course, 8101 Vicksburg Avenue, Los Angeles, California 90045.

PUBLICATION NOTICE

All material for publication — articles, notices, photographs — should be sent to the Editor, preferably five weeks before date of publication. Deadline is the first of the month preceding month of publication.

Advertising copy and inquiries should be sent to the Advertising Manager.

BEGONIA D'ARTAGNON

In our collection of begonias there will always be one that gives us so little trouble we fail to really appreciate it. Such a one in my own collection is 'D'Artagnon'. The leaves are fuzzy, rather olive green with red on the underside. They grow about 7 to 8 inches long and 4 to 5 inches wide. This one is classified as shrub-like, bare, medium leaved. Clusters of white flowers appear in spring or summer. The accompanying photo was taken three years ago. This plant is now in a seven inch pot with a 20 inch spread. The long stems dangle making it an excellent subject for a hanging basket. It thrives best in a porous and quickly drained mix.

Last summer when it was transferred to the large pot I used a potting mixture of two parts brown peat moss, 1 part vermiculite, 1 part perlite with a teaspoon of MagAmp, as low release fertilizer. I have also grown it in a mixture of 2 parts garden soil, 1 part peatmoss and 1 part sand. At the present writing I have two plants about the size of that in the photo, one growing in my seedling mix of $\frac{1}{3}$ vermiculite, $\frac{1}{3}$ perlite, $\frac{1}{3}$ milled sphagnum and one growing in pure sand, which would indicate to me that this begonia is quite amenable to any potting mix.

B. 'D'Artagnon' does not like to be kept constantly moist. It is better kept on the dry side.

It usually rests in winter, producing no new shoots or leaves. In spring when it begins to show new growth it is fed twice a month with one-

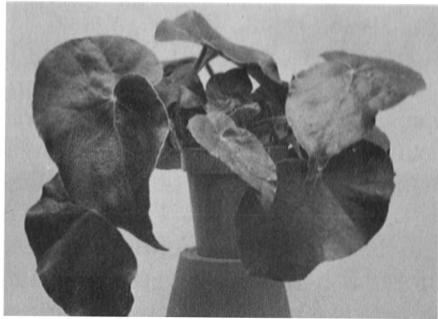


Photo by Walter Haring

half strength water soluble fertilizer like Follits-Watch-Us-Grow, Plant Marvel, Rapid-Gro, Peters or Spoon-it. A regular feeding twice a month when it is growing vigorously is a good schedule to maintain.

The foliage of this begonia will fade if exposed to full sun. In the greenhouse it should be shaded at all times with the shading heavier during the summer months when the sun is more intense.

Easy to grow, seemingly impervious to mildew and other diseases, B. 'D'Artagnon' is a handsome plant and a conversation piece, not to mention a Blue Ribbon winner.

Editor's Note: 'D'Artagnon' (B. *epipsila* x B. *scharffiana*) was registered as No. 104 by Marie Turner, California, in 1951.

Palos Verdes **Begonia Farm**

4111 - 242nd St., WALTERIA, Ca. 90505

TUBEROUS BEGONIAS

COMPLETE SELECTION OF BEGONIAS
AND SHADE PLANTS

FUCHSIAS—CAMELLIAS—FERNS

OPEN DAILY

Complete Nursery & Garden Supply Shop
1 1/2 Miles E. of Redondo Beach
Hi-Way 101

CLAYTON M. KELLY SEED FUND

No. 1—*B. rajah*, Ridley. Malay.

Small, low, high-leaf *Begonia* with creeping rootstock. Petioles thin, red, fleshy, rough-hairy. Leaves round, heart-shaped, about 5cm x 5cm. Margins more or less dentate or setiform (gristly). Upper side of leaf bare with green veins and areas of reddish-brown background, hairy in certain places of the veins. Inflorescence sessile, red, fleshy, hardly surpassing the height of the leaves. Small pink flowers. Choice *Begonia* suited for terrarium or greenhouse. Price \$1.00 per pkt.

No. 2—*B. Hillebrandia sandwicensis*.

Rare and beautiful *Begonia* native to Hawaiian Islands. Found growing at an elevation of two thousand feet in very rough terrain and does not occur any place but the Hawaiian Islands. See cover picture on *The Begonian* for September, 1958. Price \$1.00 per pkt.

No. 3—*B. versicolor*. China.

Terrarium or greenhouse plant. Three inch leaves are round, mahogany, emerald, silver, apple-green

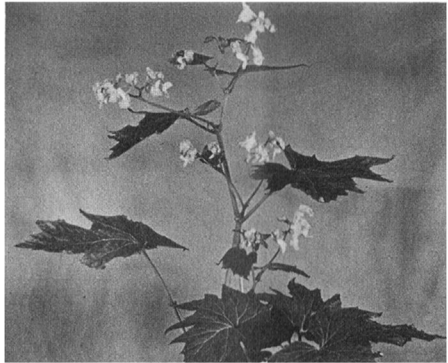


and maroon. Flowers are salmon pink. Allow ample time for seed to germinate, sometimes from three to

six weeks under favorable conditions. Temperature should be from 70 to 75 degrees and humidity should be high. *B. versicolor* will not survive in dry conditions. Mine is growing and doing very well in a covered bubble (away from the cats). Price \$1.00 per pkt. See photo.

No. 4—*B. laciniata*.

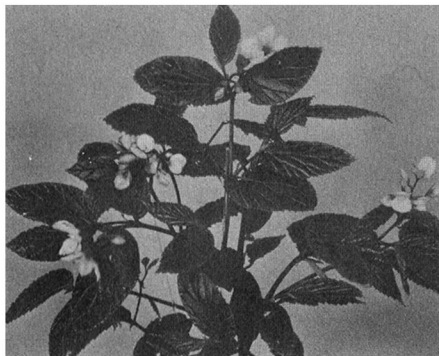
Direct import from North Thailand, a new form of this variable species quite unlike the one com-



monly cultivated. Stems upright, about two feet high, flowers pink. Price \$1.00 per pkt. See photo.

No. 5—*B. New Guinea sp.*

This may be an undescribed species. Always in flower with blooms white with a crimson blotch, which



smell strongly of Heliotrope (what more could you ask of a Begonia?). Stems purple, leaves green and rather sensitive to adverse conditions. Price \$1.00 per pkt. See photo.

No. 6—*B. foliosa* var. *amplifolia*.

Small type plant with small leaves and many flowers. Used as hanging



type. See photo for additional information. Price \$1.00 per pkt.

No. 7—*B. martiana*. Mexico.

Also called "Hollyhock Begonia". Nearhardy, larger and tougher than *B. gracilis*. Tolerates considerable sun. Forms bulbils which may be gathered and stored in fall—planted in spring with old stem scar on top. Grow in bright light for more compact shape. Price 50 cents per pkt.

No. 8—*B. scharffiana*. Brazil sp.

Smaller than *B. scharffii*: less prominent veins; more pronounced 'tail' on reversible green-red plush leaves; leaves overlap at stem end. Red whiskers on ivory flowers. Very good hanging Begonia. Price 50 cents per pkt.

No. 9—*B. listada*. Brazil.

Small plant, only about one foot high. The leaf is smallish, dark green above with an emerald green

band surrounding the midrib, hairy and red beneath. Flowers are two toned from the leaf axils. Unusual novelty. Price \$1.00 per pkt. Photo Jan. 1968.

No. 10—*B. rotundifolia*

Pygmy creeper that stays terrarium size for years. Small round leaves, yellowish-green; flowers pink. Price 50 cents per pkt.

No. 11—*B. 'Danica'*. *Semperflorens* F. hybrid. New.

A strong vigorous Begonia that grows well in morning sun or semi-shade. Flowers accented by yellow centers, bloom in dense clusters of a half dozen or more. Unusual, glossy, copper foliage is mottled with purple and has a serrated edge. Flowers red. Price 50 cents per pkt.

***Billbergia venezuelana*.**

Direct import from Venezuela. Purple flowers, leaf brown with silver bands, growth tubular, exposure, diffused light. Price 50 cents per pkt.

Please send requests for seed to:

Mrs. Florence Gee
Seed Fund Administrator
234 Birch Street
Roseville, California 95678



**AMERICA
BEGONIA SOCIETY**

INSIGNIA PINS	\$4.50
EMBLEM STICKERS50
GARDEN SIGNS	1.00

Price includes postage
(California residents, add 5% tax.)

ORDER FROM
John W. Provine
2317 So. Third St.
Arcadia, Calif. 91006

ROUND ROBIN NOTES

Spring comes early as the robins continue to fly in to the members of the Round Robin groups.

Toppy Todd of New York gave a thumbnail sketch of how to grow under lights which is a useful guide for those inexperienced growers who would like to try them: get a light fixture that has at least two fluorescent tubes. Cool white, warm white, daylight, Gro-Lux or any combination of these will work as well as anything. After that, it's all a question of experimenting with the number of hours you leave the lights on, in conjunction with your humidity. If plants are leggy, move them towards the light; if they are too pale in color, they are getting too much light or not being fed enough; if they are not flowering when they should, give them more light or more humidity. Also keep in mind that some won't flower if they are not cool enough (and remember that most of the rhizomatous Begonias bloom during short days and long nights). Forget the technicalities. Play around with moving plants toward the center for more light, to the ends of the tubes for less. 14-16 hours a day is good for Begonias and, if you are not concerned with flowering cycles, you can even leave lights on for 24 hours which will get your seedlings off the ground in record time.

Grant McGregor, Canada, finds many have trouble when they plant out the small plants grown from Begonia leaves. He grows them in vermiculite for a time and then transfers a quantity of vermiculite with them when potting them in mix.

Yvonne Wells, Texas, had her B.

socotrana bulbs put out after about five months dormancy. She finds this species, *B. picta* and *B. acaulis* need heat to put out, especially *B. picta*.

Chuck Tagg, California, told how they start their tuberous Begonias: tubers are brought in from storage, segregated in pots with labels but no soil, pots are soaked in sink for a few hours, then drained. Room temperature will usually start them sprouting, after which they are planted. If they don't sprout, they are soaked once more in a couple of weeks to try again. They are rooted right in the pot they will spend the summer in, without extra heat. Once they've put on most of the season's growth, transplanting to a larger pot doesn't seem to help much. At the end of the season, the new soil hadn't been used.

Martha Larson, Iowa, went to a horticultural meeting last fall. One plant specialist recommended drenching the soil of potted plants with pure apple cider vinegar: 1 teaspoon soft water or 1 tablespoon to 1 quart hard water.

Chuck said they use 1-2 tablespoons of phosphoric acid fertilizer per 20 gallons water. This seems necessary to maintain a pH of 6.5 to 7.0 in the water their plants get and seems to make a tremendous difference in their color and general health. He recommends using a swimming pool or aquarium pH test kit to determine pH before and after adding the vinegar (or other acid).

Jim Bleakley, Australia, had two medium sized plants of *B. goegoensis*. He repotted one into a 5" pot and growth slowed nearly to a standstill. The other, left in its 3" square

plastic pot, is flowering and one can hardly see the pot for the leaves. He wonders if we don't tend to overpot our Begonias.

Ruth Stanley, Ohio, finds *B. tenuifolia* a nice small plant for the windowsill.

Anita Sickmon, Kansas, had a plant of *B. hydrocotylifolia* that had sulked for two years. After placing it in her enclosed area on the bench in the greenhouse, it has become a nice plant, still in its 21½" plastic pot, covering an area of 8-10 inches.

If you would like to join the Round Robins, write me:

Mrs. Mae Blanton,
Round Robin Director
Rt. 4, Box 159A
Lewisville, Texas 75067

RESEARCH REPORT

Belgian Begonia Display

Each year the Society of American Florists presents an Award for the most outstanding floral display creation. For the first time the Awards committee decided to present the Award outside the United States for the excellence in staging the World's Largest Floral Carpet in the Grand Place, Brussels, Belgium, in August 1971. The theme of the exhibit was "For a summer of bloom, plant begonias." Florists Associations from Ghent and surrounding regions worked throughout two nights to make ready for the exhibit August 14-16. The overall carpet, approximately 253 feet long x 84 feet wide, was especially illuminated in the evening highlighting the historic Town Hall. It included 850,000 begonias supplied by over 50 concerns.

From — *Nursery Business*, W. G. McGregor.

RESEARCH REPORT

An interesting report was received from Mr. Mac MacIntyre, our research representative from England. He was able to go to Edinburgh to the Royal Botanic Gardens again and was given *B. decora* and a species from Sarawak that was collected in 1967 by one of their botanists. Mac described the plant as being of upright growth with green leaves with ¼-½ inch spots and a narrow margin in lighter green. The new leaves are almost mahogany with the light green spots and margin. He says that it is a most attractive plant.

Mac has also been experimenting with several begonia species trying to produce the hybrid *B. 'Prestoniensis'*. He has been working on this for the past two years. It is understood that this plant has been lost, and to be a hybrid of *B. cinnabarina* crossed with *B. nitida*. His attempt at using these species did not produce the desired results. He was also told that the male parent was *B. incarnata* and not *B. nitida*. So he tried this cross both ways and his results were remarkable. All plants were almost identical. The only difference was that the stamens of one cross were yellow and those of the other cross were orange. The plants conform exactly to the description written in 1853, including the scent. He has one plant of each cross in his small greenhouse and the scent from these plants fills the house from early morning until midday when the scent goes away, to return again the next morning. He has never seen any other begonia with such strong scent.

M. Carleton L'Hommedieu
Research Director

B. SERRATIPETALA

By Elda Haring
Box 236, Flat Rock, N.C. 28731

Credit goes to Dr. Irmscher for bringing us this species from New Guinea in 1913. It is a beautiful plant with narrow serrated leaves, bronze green, reddish on the underside and pink spotted. Flowers are bluish pink.

For the most part this begonia is not the easiest to grow. If the root-ball is kept too dry it will drop some of its leaves and stems and if this condition prevails over a long period the stems will sometimes harden resulting in great damage to the plant. Conversely if overwatered it will lose many leaves at midstem, leaving only a small bunch of new leaves at the end of the branch. If this should be your experience cut off the bare stems to within three inches of the crown and allow the soil in the pot to dry out before again giving water. The stem ends with a few leaves attached may be rooted for new plants. Depending upon the time of year, the plant may start into active new growth immediately or it may take weeks or even months for the crown to show new leaves and stems. Be patient. Keep the plant watered only enough to prevent it from withering and do not fertilize until new growth is evident.

It is wise to keep *B. serratifetala* slightly on the dry side but never to the point of dust-dry. A plant permitted to wilt will often stand up crisp and turgid again upon being watered deeply but this treatment again and again will eventually result in the loss of the plant. When



B. serratifetala

Plant grown by, and photo by Mr. and Mrs. Edward Thompson of Long Island, New York.

I water this begonia, I like to pour water into the top of the pot until it appears in the saucer below. After 15 minutes any water remaining in the saucer is poured off. The plant is not again watered until soil in the top of the pot feels dry to the touch.

Under fluorescent lights in my cellar where I do not provide additional humidity, I find that *B. serratifetala* needs misting several times a week for the leaves tend to turn brown on the edges and drop from the plant. It grows equally well under Gro-Lux as under cool or warm white tubes.

Experience in rooting stem cuttings has been varied. Tender new tips will often wilt or rot when inserted in rooting medium. I have successfully used a mixture of peat and

sand, sand alone, or my favorite mix of one-third perlite, one third milled sphagnum and one-third vermiculite for rooting *B. serratifetala*. If you are using a propagation box for rooting cuttings, be sure to have the medium only slightly damp, never saturated. Fluctuating temperatures will cause enough condensate to give adequate moisture for rooting. Taken in mid-summer cuttings will usually root in about two weeks. However, they will, if in proper condition, root at any time of the year, although the process takes longer.

This begonia makes an excellent basket plant. If you do not have room for basket plants it can be kept quite bushy by pinching tips of branches as they grow out over the sides of the pot permitting any center stems to grow at will until the desired height is reached. There are two ways to handle *B. serratifetala* if you wish to use it for a basket plant. As it grows, allow the tips of branches to grow without pinching until a good spread is reached, at least 8 to 10 inches, and then pinch the tips thus encouraging new branches to form. Any stalks that tend to grow upright can be cut off to within 3 to 4 inches of the pot level which will cause horizontal growth. As roots fill the pot the plant should be shifted to the next size until it is ready for the basket. The other method is to start with three to five rooted cuttings positioning them in a large basket with tips of branches pointing outward. When they have grown over the edge of the basket, to the width you wish, pinch growing ends back about one inch. This will quickly give you a well-filled basket.

CONDENSED REPORT OF THE MONTHLY MEETING OF THE BOARD OF DIRECTORS OF THE AMERICAN BEGONIA SOCIETY

The regular meeting of the Board of Directors was held on January 22, 1973 in the South Gate Auditorium. Thirteen officers and eleven branch representatives were present. John Provine, President, presided. After the usual opening ceremonies, the minutes of the November meeting were read and approved as corrected. The Treasurer reported for the period November 19, 1972 to January 18, 1973; receipts \$4,286.33; disbursements \$3,019.90; leaving a balance on hand of \$3,270.56. The report included receipt of \$2,065.19 from the 1972 Show and Convention. The balance on hand in the Catalog Fund is \$1,919.66. Membership Secretary reported for two months, 164 new members; 268 renewals; funds received and deposited \$1,872.21. Circulation Manager reported 5893 Begonians dispersed in the two months; total mailing expense \$108.68. Advertising Manager reported net receipts for the two month period \$195.93; unpaid accounts as of Jan. 18, 1973 \$17.50. Business Manager reported the General Liability Insurance policy due, cost \$21.00, will be paid. Judges Course Director reported receipts \$128.22; expenses \$28.50. The list of ABS registered judges will be printed in *The Begonian*. The Knickerbocker Branch has ordered Classification Guides and Point Scoring books and the Theodosia Burr Shepherd Branch is starting a study group and has ordered twelve sets of the Judges Course lessons.

Research Director's report was read. Work is progressing on the Rutgers University project. The new Long Island Branch now has 65 members.

Nomenclature Director reported work is progressing on the registration book. There are over 338 registered begonias and the research on each to assure accurate information takes much time and effort.

The two monthly reports from the Round Robin Director were read. Public Relations Director reported good results from her request for lists of new branch officers. She also read the interesting letter from Jack Golding, Vice President, regarding plans for the Eastern Convention (continued on Page 71)

"Schultz-Instant"

LIQUID PLANT FOOD 10-15-10

7 DROPS to a quart of water
"starts and feeds" all plants

Available at your store

or send \$1.25 for 2 bottles, prepaid to
SCHULTZ COMPANY
11730 NORTHLINE, ST. LOUIS, MO. 63042



BEGONIA EVANSIANA

By Elda Haring

B. evansiana, the so-called hardy begonia, is a great favorite of mine. It is a tuberous species, rather tall growing, with leaves of light green, red veins under and a red dot at the sinus. Flowers are pink and appear in late summer. *B. evansiana* is known as the hardy begonia for it will survive the winters out-of-doors if planted in a protected spot and mulched with at least three inches of oak leaves, pine or fir bark chips, or pine needles. It can also be grown successfully in pots indoors.

Many inexperienced growers do not succeed with this begonia because they are not cognizant of its special needs. This is a *seasonal* plant. By that I mean that it grows from late spring until fall when, after flowering, it gradually loses its leaves and stems and disappears for the winter whether grown out-of-doors or in pots. It is therefore very important to mark it well for new growth does not begin in spring until weather has become warm and settled.

For several years I grew *B. evansiana* at the east foundation of our former home in Connecticut only to lose it one winter when with no snow cover the temperatures dipped to 20 degrees below zero and the ground froze to a depth of 24 inches. The photo shows *B. evansiana* growing by our terrace where it had survived two normal winters, new growth showing in late May or early June. I am told that here in North Carolina this begonia, if planted in woody soil in light shade and mulched with oak leaves, puts on a magnificent show in summer.

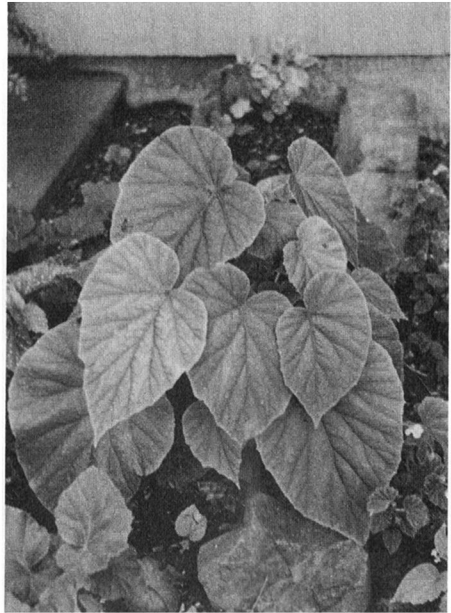


Photo by Walter Haring

B. evansiana not only grows from a tuberous root but produces tiny bulbils at the axils of the leaves. At the end of the growing season these drop from the plant and if conditions are right, tiny plants will spring up from these bulbils the next season. Potted plants whether growing in the greenhouse, sunporch or under lights will become rather ragged and slowly go into the dormant period. About the middle of November, the pots should be placed in a cool spot, out of the sun and water withheld completely until late March or early April. Often the small volunteer plants from the bulbils will continue to grow all winter but mature plants need the dormant period. Should the potted bulbils drop their leaves be sure to have these properly marked
(Continued on Page 69)

TOBY'S WAY WITH BEGONIAS

Ideas on grooming and propagating Begonias were given by Toby Lothman when he talked recently to the Knickerbocker Branch in New York.

He started with the canes, which should be cut back sharply to stimulate budding growth—there are auxins (hormones) in the leaves which inhibit new growth. By cutting off the old stems the auxins are eliminated and new growth is stimulated. When a plant is cut back, even sharply, there is not much danger of rot.

Check the roots. If they are excessive, cut back and add new soil to make room for new growths. For specimen show plants, Toby said, feed and repot into next larger pot every two weeks.

Old stems take longer to root. Best to use the new growth at the very tip—the first inches of stem, as few as two nodes (do not remove any leaves). If you don't have a rooting medium or you are too busy, you can keep the cutting in a plastic baggy; put the stem end in the lower corner, add TWO teaspoons of water and close the bag with a little opening at the top. Hang in light (but not sun) and roots come in a week. When you cut only the new green growth, you don't have to worry about whether you cut above or below a node—the young stem will shoot roots out from the stem itself.

Even one good leaf of a cane Begonia can be made into a successful cutting as long as a part of the old stem is cut away with it and the axil shows a potential growth bud.

Use healthy colored stems for cuttings; even bare stems if they are firm and have good color, but cuttings with leaves root quicker. Always remove the dead stipules from a cutting as they will rot.

If you have a cane with a long stem, bare except for a tassel of a few leaves at the top, and you don't want to risk a cutting, try this: bend the cane down so that the leaves are near the ground; new growth will come out of the top of the bend; cut off and root this new shoot when it is about three inches long. Also, when you bend the cane if you bury the top end a few inches below the leaves in the growing medium, it will also root so you will get at least three new plants.

When a Begonia has rhizomes hanging over the edge of the pot, either put into a larger pot and tuck in the rhizomes around the outer

(Continued on Page 69)

Practical. Thorough. Accurate. Full-size (8½ x 11). Monthly (except July & August). Concentrates on making growing easier; reports on new developments, time and labor-saving techniques, short-cuts to better plants. 1 year, \$9. 2 years, \$16. 3 years, \$20.

PLANTS ALIVE

2100 N. 45th, Seattle, Wash. 98103

JOIN THE AMERICAN GESNERIA SOCIETY

Latest information about growing these lovely plants and where supplies are obtainable. Also receive the beautiful G.S.N. (Gesneriad, Saint Paulia News) in color. News of Robin activities, Seed Fund and general culture. Membership Dues \$5.25 a year.

Mail to:

AMERICAN GESNERIA SOCIETY
World Way Postal Center, Box 91192 (F)
Los Angeles, California 90009

CLEO VISITS A MEETING

By Jack O. Langrell

"You didn't like your visit to the Begonia Club Meeting, why?" queried B. Carmalita.

"Humph! Like it? I thought it was ridiculous," snarled B. Cleopatra.

"What was wrong," asked Carmelita?

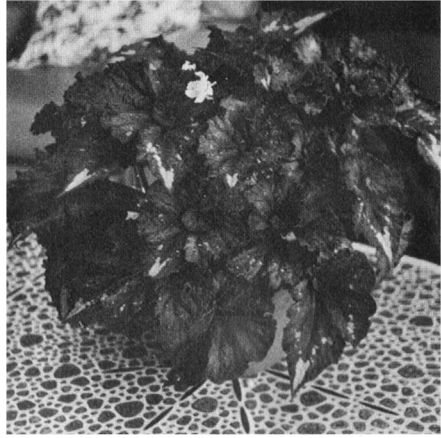
"Well, Claw wanted to take me to show me off to the other members. You know, —like maybe he had something to do with the way I look," explained Cleo.

"You shouldn't call Mr. Langrell Claw. I think he treats us pretty good," chided Carmelita.

"Ha! You think what you like — I'll think what I like. Somehow that name seems to fit him," answered Cleo. "Anyway when we get to the meeting they introduced a couple of new members. Then they discussed the fellowship they enjoyed among such good friends. They proceeded through the meeting, their fellowship luncheon, and the whole ball of wax, and practically no one spoke to the new members," shouted Cleo. "You know, Claw thinks he's such a big shot, so busy all the time with his friends. He might have introduced himself to the new members, or said hello," commented Cleo as she turned her leaves a little more toward the light.

"Well, I think it's human nature to be a little backward about meeting new friends," answered Carmelita.

"Bah! You could see the new members were lonely, sitting there with people all around them. All they wanted was a few kind words,



but old Claw just pased them by. That's plain stupid," growled Cleo, "any cotton pickin', knuckle knockin', son of a geranium knows better'n that."

"Yes, I'm sure this is true. People should try to be exceptionally friendly to the new members," answered Carmalita.

"If I were a new member who wanted to become their friend, after a couple of meetings of unfriendly friendship, I would say adieu," raged Cleo indignantly, her leaves trembling as her breath came in short pants, through her stomas.

"A nod, a warm hello, or stop and shake their hand would mean so much," added Carmalita, "I'm sure I would pray they would accept me as their friend."

AFRICAN VIOLETS - COLUMEAS - EPISCIAS

Miniature Sinningias — Rex Begonias
Ferns and Supplies

West Coast Gesneriads, 564-0346
3804 Narigia St., San Francisco
No Mail Orders

TOBY'S WAY WITH BEGONIAS

(Continued from Page 67)

perimeter of the new pot, or if you do not have the room, cut off the straggly rhizomes, trim the roots and put it back in the same pot with new soil. Propagate the pieces of rhizome on the top of slightly damp perlite or vermiculite. They do not have to be covered with plastic (unless your location is very dry) and they should start to root in a week. To root leaves of a rhizomatous type Begonia, just insert the end of the petiole into the rooting medium but keep the leaf blade above the medium. Another method is to cut the leaf blade through the area where the petiole is attached and lay this cut on, or insert it just below the surface of the rooting medium.

Rex Begonias can be propagated by rhizome cuttings and leaf cuttings and also by wedge cuttings. Cut triangular shaped pieces with a large vein in the center, insert the point with the vein into the rooting medium and it will normally root and produce new plantlets within six weeks.

Occasionally a petiole of a leaf cutting will develop good roots, but no plantlets. Loosen the planting medium and raise the rooted stalk closer to the surface.

When potting a rooted cutting use moist medium. If it is dry it may damage the cutting, and if it is too wet the cutting will rot.

Such were Toby's interesting and educational ideas about raising Begonias.

(By permission from
THE KNICKIE NEWS)

BEGONIA EVANSIANA

(Continued from Page 66)

for they will start to grow again as the days lengthen.

In my experience this begonia grows well in most any soil mix. Overwatering can cause the tuber to rot. On the other hand the soil in the pots should not be permitted to become so dry that leaves start to wilt. Feeding one-half strength water soluble fertilizer twice a month keeps it in good condition during the growing season. If you desire to have a specimen plant for flower shows, shift into larger pots as the roots fill the container until the plant has reached specimen size.

WANTED TO BUY

Plants of *B. griffithii*, *B. Exotica*, *B. rajah* and *Rexes*. Also Miniature and terrarium plants, begonias and ferns. Cuttings of Kusler hybrids and cane type begonias. Will buy retail or wholesale.

WEST COAST GESNERIADS

3804 Noriega St., San Francisco 94116

GRO-LUX LAMPS—BLACK LIGHT

All sizes of lamps and fixtures for residence or business.

FLUORESCENT TUBE SERVICE

13107 S. Broadway, Los Angeles, Calif. 90061

Phone (213) 321-6900

BEGONIAS

HOUSE and GARDEN PLANTS

Send for List—10c

MRS. BERT ROUTH

Louisburg, Missouri 65685

HYPONEX
Soluble **PLANT FOOD** Complete
GROWS BETTER PLANTS INDOORS OR OUTDOORS
In Poorest Soil -- Even in Sand or Water
Preferred by millions for 30 years. Simply dissolve in water and feed all plants through roots or foliage. Clean, odorless. If dealer can't supply, send \$1.29 for 10 oz. Makes 60 gals. 75 items catalog Free.
HYDROPONIC CHEM. CO., Copley, Ohio 44321, U.S.A.

BRANCH DIRECTORY

VISITORS ARE ALWAYS WELCOME AT THESE MEETINGS

BUXTON BRANCH

3rd Saturday, Homes of Members
Mrs. F. N. Sinex
34 Thackery Rd., Wellesley, Mass. 02181

CONNECTICUT BRANCH

4th Sunday of each month
Mrs. Priscella Beck, Secy.
R D No. 1, Box 121,
Mystic, Conn. 06355

DALLAS COUNTY, TEXAS, BRANCH

3rd Monday, 10 a.m., Members' Homes
Mrs. George W. Hopkins, Secy.
1619 S. Beckley Ave., Dallas, Texas 75224

EAST BAY BRANCH

2nd Thursday, 7:45 p.m., Willard School
Telegraph at Stuart, Berkeley, Calif.
Miss Carol E. Orpin, Secy.
428 Norvell Street
El Cerrito, Calif. 94530

EASTSIDE BRANCH

4th Wednesday, 7:30 p.m.
590 116th Avenue N.E., Bellevue, Washington
Diane McElroy
9010 209th Ave., N.E., Redmond, Wash. 98052

EL MONTE COMMUNITY BRANCH

3rd Friday, Members' Homes
Mrs. Gladys Mättuket, Secy.
1801 Azalea Drive, Alhambra, Calif. 91801

FOOTHILL BRANCH

3rd Friday, 8:00 p.m.
First Methodist Church, Marshall Hall
3205 D Street, La Verne, Calif.
Mrs. Marie Schmidt, Secy.
1296 Prospect
Pomona, Calif. 91766

FORT, ELSA BRANCH

1st Saturday, 1:00 p.m.
Miss Lola Price, Secy.
628 Beach Ave., Laurel Springs, N.J. 08044

GLENDALE BRANCH

2nd Tuesday, 8:00 p.m.
Glendale Federal Savings, 401 N. Brand
Mrs. Katharine Alberti, Secy.
3322 Troy Drive, Hollywood, Calif. 90068

GREATER BATON ROUGE BRANCH

Mrs. John H. McKay, Secy.
5116 Baton Rouge Ave., Baton Rouge, La. 70805

HOUSTON TEXAS BRANCH

2nd Friday, 10:00 a.m.
Garden Center, 1500 Herman Drive
Mrs. B. A. Russell, Secy.
5926 Jackwood, Houston, Texas 77036

KNICKERBOCKER BRANCH

2nd Tuesday, 7:30 p.m.
Horticultural Society of N.Y.
128 West 58th St., New York
Miss Margaret Huger, Secy.
505 East 82nd St.
New York, N.Y. 10028

LONG BEACH PARENT CHAPTER

3rd Sunday, 1:30 p.m.
Great Western Savings and Loan Bldg.
6300 East Spring St., Long Beach, Calif.
Eva Johnson, Sec'y
704 E. San Antonio Dr., #3, Long Beach, Ca. 90807

LONG ISLAND BRANCH

2nd Wednesday, 8:00 p.m.
Planting Fields Arboretum
Oyster Bay, Long Island, N.Y.
Annette W. Boree, Sec'y
8 Brown Road, Great Neck, N.Y. 11024

LOUISIANA CAPITAL BRANCH

1st Friday, Sear's Garden Center
6201 Florida St., Baton Rouge
Mrs. Johnnie L. Tanner, Secy.
1962 Cederdale, Baton Rouge, La. 70808

MESQUITE BRANCH

Mrs. Billie Lyles, Secy.
928 Calle Reale, Mesquite, Texas 95149

MIAMI BRANCH

Simpson Memorial Garden Center
4th Tuesday, 8:00 p.m.
Paul E. Lowe, President
2304 S.W. 123 Rd., Goulds, Fla.

MISSOURI BRANCH

3rd Friday, 11 a.m., Member's Homes
Kansas City, Mo.
Mrs. Glenn Lucas, Secy.
Kansas City, Mo. 64109

MONTEREY BAY AREA BRANCH

4th Wednesday, 8:00 p.m.
Lighthouse and Dickman Sts., New Monterey, Calif.
Frederick Bell, Jr., Secy.
P.O. Box 527, Pebble Beach, Calif. 93953

NORTH LONG BEACH BRANCH

1st Tuesday, 7:30 p.m.
525 Ocean Blvd., Long Beach
Barbara Welty, Secy.
4741 Hazelbrook
Long Beach, Calif. 90808

ORANGE COUNTY BRANCH

2nd Thursday, 7:30 p.m.
Lions Club, Walnut St. and Garden Grove Blvd.
Garden Grove, Calif.
Dorothy Porter, Secy.
19151 Lomita, Orange, Ca. 92667

PHILOBEGONIA BRANCH

2nd Friday, Members' Homes
Mrs. Anne Stiles, Secy.
East Delaware Trail, R.D. No. 2, Medford, N.J. 08055

PORTLAND BRANCH

Mrs. Lavene Jenkins, Secy.
9920 S. W. 53rd Ave., Portland, Oregon 97219

REDONDO AREA BRANCH

4th Friday, 7:30 p.m.
R. H. Dana School Cafetorium
135th St. and Aviation Blvd., Hawthorne, Calif.
Mrs. Juanita Spunatugle, Secy.
4248 Mentone Ave.
Culver City, Ca. 90230

RHODE ISLAND BRANCH

1st Saturday, Homes of Members
Miss Marcella Flynn, Secy.
7 Fairfield Ave., East Providence, Rhode Island 02914

ROBINSON, ALFRED D. BRANCH

2nd Tuesday, 10:30 A.M. Homes of Members
Mrs. Frances King, Secretary
3327 - 28th St., San Diego 92104

RUBIDOUX BRANCH

4th Thursday, 7:00 p.m. West Riverside Memorial Hall
4393 Riverview Drive Rubidoux, Ca.
Dorothy Ansevics, Sec./Treas.
4063 Opal St. Riverside, Ca. 92509

SACRAMENTO BRANCH

3rd Tuesday, 8:00 p.m., Garden Center
3300 McKinley Blvd., Sacramento, Calif.
Mrs. Dora Hale, Secy.
9770 Carmencita Ave.
Sacramento, Ca. 95823

SALINE COUNTY BRANCH OF KANSAS

4th Monday, 2:00 p.m., Homes of Members
Mrs. George Smith, Secy.
916 Park St., Salina, Kansas 67401

SAN FRANCISCO BRANCH

1st Wednesday, 8:00 p.m., Garden Center
Golden Gate Park, 9th Avenue and Lincoln Way
Mrs. Louise Eby, Secy.
1137 Hillside Blvd. So. San Francisco, Calif. 94080

SAN GABRIEL VALLEY BRANCH

2nd Friday, 8:00 p.m.
 Los Angeles State and County Arboretum
 501 N. Baldwin Ave., Arcadia, Calif.
 Mrs. Alice Broadhag, Secy.
 9619 Broadway, Temple City, Ca. 91780

SAN MIGUEL BRANCH

2nd Wednesday, Porter Hall, 7:30 p.m.
 University & La Mesa Blvd., La Mesa
 Mrs. George Bayse, Sr., Secy.
 2347 Langmuir St., San Diego, Calif. 92111

SANTA BARBARA BRANCH

2nd Thursday, 7:30 p.m.
 Santa Barbara Museum of Natural History
 2559 Puerta Del Sol
 Miss Gladys M. Grant, Secy.
 460 Mountain Dr., Santa Barbara, Calif. 93103

SANTA CLARA VALLEY BRANCH

4th Thursday, 8:00 p.m.
 Northern Calif. S & L Assn.
 10250 South Sunnyvale-Saratoga Rd.
 Cupertino, Ca.
 Mrs. Elizabeth K. Sayers, Secy.
 369 Ridgo Vista Ave., San Jose, Ca. 95127

SEATTLE BRANCH

3rd Tuesday, 7:00 p.m.
 Calvary Lutheran Church
 7002 23rd Ave., N.W.
 Mrs. Ray Hodgkinson, Secy.
 11257 Evanston Ave., No. Seattle, Wash. 98133

SHEPHERD, THEODOSIA BURR BRANCH

1st Tuesday, 7:30 p.m.
 Y.M.C.A. Bldg., 5200 Telegraph Rd., Ventura, Calif.
 Mrs. Hattie Lee Keller, Secy.
 510 E. Yucca St.
 Oxnard, Calif. 93030

SMOKY VALLEY BRANCH

4th Thursday, 7:30 p.m., Members' Homes
 Mrs. Henry Flaherty
 606 South Third, Sallina, Kansas 67401

SOUTH SEATTLE BRANCH

4th Tuesday, 7:30 p.m., Wm. Moshler Field House
 430 South 160th Burlon
 Helen Harbord, Sec'y
 17859 S.E. 196th Dr., Renton, Wash. 98055

TARRANT COUNTY BRANCH

2nd Monday, 10:00 a.m., Members' Homes
 Mrs. R. M. Bennison, Secy.
 Rt. 2, Box 155 Dickinson, Texas 77539

TEXASTAR BRANCH

3rd Thursday, 10 a.m., Garden Center
 1500 Herman Dr., Houston, Texas
 Mrs. V. O. Harman, Secy.
 306 Cody, Houston, Texas 77009

WESTCHESTER BRANCH

1st Thursday, 7:30 p.m., Westchester Women's Club
 8020 Alverstone St., Los Angeles, Calif.
 Ramona Greb, Secy.
 441 Hillside Lane, Santa Monica, Ca. 90402

WESTERN PENNSYLVANIA BRANCH

2nd Wednesday, 11:00 a.m. every other month
 Pittsburg Garden Ct., 1059 Shady Ave., Pittsburg, Pa.
 Mrs. Irene Fediacko, Secy.
 125 Arlington Ave., Butler, Pa. 16001

WHITTIER BRANCH

1st Thursday, 7:30 p.m.
 Palm Park Community Center
 5703 South Palm Avenue, Whittier
 Miss Anne Rose, Secy.
 14036 Ramona Drive, Whittier, Calif. 90605

WILLIAM PENN BRANCH

4th Tuesday, Noon Homes of Members
 Mrs. Stuart J. Bracken, Secy.
 727 Mt. Moro Rd., Villanova, Pa. 19085

MINUTES OF BOARD MEETING

(continued from Page 65)

tion. Show Chairman reported that the Student Center at Cal State University at Fullerton has been secured as the site of the 1973 Show and Convention which will be held August 18 and 19. The Show Committee will hold its first meeting on Feb. 7th. The Chairman of the Finance Committee read the proposed budget for 1973; total estimated income \$13,100.00; estimated disbursements \$13,100.00. A motion was made and passed to accept the report. The President proposed the names of two new members of the Awards Committee; Mrs. Marge Lee and Mrs. Elda Haring. A motion was made and passed to accept the nomination. The President nominated Mrs. Walter Hansen to be Chairman and Mrs. Hazel Snodgrass and Mrs. Barbara Philip to be members of the Nominating Committee. Motion made and passed to accept the nomination.

A letter of resignation from Mildred LeComte, Membership Secretary, was read. A motion was made to accept the resignation with regret. President submitted the name of Mrs. Betty Burrell to be Membership Secretary. Motion made and carried to accept the nomination. Secretary read a letter of resignation from Lillian Steinhaus, Parliamentarian. Motion made and passed to accept with regret. Margaret Ziesenhenné was nominated by the President for the position of Parliamentarian. Motion made and passed to approve the nomination.

Several letters were read concerning the motion which was tabled at the last meeting; to discontinue payment of membership dues to local arboretums by the Board of Directors, for the American Begonia Society, with the exception of the Los Angeles, County and State Arboretum, which maintains a begonia greenhouse and a trophy case containing our retired trophies. The arboretum specifically under discussion was the South Coast Botanic Garden. After discussion, a vote was taken by a show of hands. There were 8 in favor of discontinuing membership in local arboretums; 11 not in favor of discontinuing such memberships. Motion defeated. A motion was made to instruct the secretary to write to all branches to ask for their opinion. Motion defeated.

It is the consensus of opinion of the Board that branches should be encouraged to support local arboretums but that care should be taken by the Board to pay for membership in any local arboretum only if there is very definite evidence that it is interested in growing begonias. After the usual branch reports, the meeting adjourned at 9:30 p.m.

Respectfully submitted,
 Irene Grannell, Secretary

SECOND CLASS MAIL
American Begonia Society
10331 South Colima Road
Whittier, California 90604

Gloxinias—African Violets—Begonias
Varieties which thrive under
fluorescent light
New Catalog—25c

KARTUZ GREENHOUSES
Dept. B—92 Chestnut Street
Wilmington, Massachusetts 01887

ANTONELLI BROTHERS

2545 Capitola Road
SANTA CRUZ, CALIFORNIA 95060
36-page color catalog 25 cents

BEGONIAS

Rhizomatous — Rex — Cane
including *B. versicolor*
and many varieties for bowls.
Retail only — price list 10¢

MRS. ROSETTA WHITE
1602 N.W. Third St., Abilene, Kansas 67410

AFRICAN VIOLETS - BEGONIAS - EPISCIAS

Fresh-cut Violet Leaves — 25¢
Episcia Stolens — 30¢
Begonia Cuttings — 40¢
Free descriptive price list
WILSON'S GREENHOUSE
OZARK, MISSOURI 65721

BEGONIAS & PLATYGERIUMS

REX BEGONIA SEED — \$1.00 per pkt.

RUDOLF ZIESENHENNE

1130 North Milas Street
SANTA BARBARA, CALIFORNIA 93103

GREEN HILLS NURSERY

Exotic & Hardy Ferns
Open Saturdays and Sundays
10 a.m. to 4 p.m. or by appointment
2131 Vallejo Street St. Helena, Calif. 94574
Mrs. E. Bolduc

SPOONIT

FLOWER FOOD

Send Post Card for Information and Sample

PLANTSMITH

Box 818 Palo Alto, Calif. 94302

BEGONIAS, GERANIUMS, EXOTICS
FERNS, OXALIS, CACTI, HERBS

Catalog with color — \$1.00

LOGEE'S GREENHOUSES

(Est. 1892)

55 North Street, Danielson, Connecticut 06239

LOWE'S NURSERY

Rex, Rhizomatous, Angel Wing, Miniatures
and other odd and rare Begonias including
many new hybrids and species.

BROMELIADS and ORCHIDS

Call for appointment before visiting nursery.
Closed Sundays, Holidays. Tele. 305-248-6608.
Wholesale and Retail. New price list 10¢
23045 S. W. 123 Rd., Goulds, Fla. 33170

VETTERLE'S BEGONIA GARDENS

Pacific Strain
Tuberous Begonias
Delphinium and Primrose

P. O. Box 1246
Watsonville, Calif. 95076
Catalog on Request 25¢