

PRIMROSES Quarterly of the American Primrose Society Winter, 1990 Volume 48, Number 1

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Editor's Committee: Thea Service Foster Don Keefe Pat Foster

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On the cover

Photo by T. C. Clare *Primula Marginata* 'Linda Pope' seed of P. marginata is included on current APS list.

That smiling, enthusiastic man auctioning a primula on the Fall cover was Herb Dickson. Come to the picnic and see him in action!

President's Message

Major and significant changes in the American Primrose Society have taken place during this past year: Peter Atkinson was appointed Director of the Seed Exchange; Pat and Thea Foster has been assigned as Editors of 'Primroses'; Mrs. Anita Alexander Historian; and the Society is beginning a new role as a Protector of native primula species.

Few people realize the tremendous amount of time, dedication, frustrations and just plain hard work required in the production of the Seed Exchange and the quarterly 'Primroses'; often, without any recognition for volunteered efforts and with an unrelenting choir of critics in the background.

The American Primrose Society is extremely fortunate to have Peter Atkinson, an avid grower himself, assume the leadership role in the Seed Exchange. A quick look at this year's listing of seed will reveal some major advancements in the selection of seed, documentation of the source and the participation of members in the Exchange. Peter has been working all year to produce a well rounded seed list with new and exciting 'finds' for members to try. Not only does it offer examples of the latest hybridizing advancements from commercial sources and rare native species, but examples of individual growers efforts in line breeding and hand pollination; thereby climatizing primulas to a wider and wider range of environments and locations. No longer can members use the excuse "but they don't grown in my area".

Pat and Thea Foster will have their hands full in meeting the expectations members have grown accustomed to expect from the Quarterly. Thea (a well known grower, author, artist and humorist in her own right) and her dedicated husband, Pat, will need the full support APS members to maintain "Primroses" as the publication for Primula growers throughout the world. Members are not only encouraged, but requested to communicate with the Fosters on suggestions for articles, descriptions and letters about their own horticultural efforts, and recommendations on individual growers that can be contacted to add to the Quarterly's interest. Mrs. Anita Alexander, who most graciously agreed to the Society's Historian will also be needing APS members support and help in assembling originals and copies of old documents, newspaper clippings, and other memorabilia. After this information has been catalogued, it will become available to APS members and students doing research on the American Primrose Society, individual personalities in the APS, and information on the cultivation of the various Primula species. The task of assembling the historic data on the APS is long overdue, but with APS member's donations, Mrs. Alexander, with her extensive knowledge and background in the Society, will be able to make a major contribution to the horticultural society.

I belive I am speaking for all American Primrose Society's Board

Members when I express my humble gratitude for all the personal efforts that have and will be contributed to the Seed Exchange, 'Primroses' and documentation of the Society's History. We are all looking forward to this next decade as a time for growth and maturity.

LARRY BAILEY

A Tribute to Editors Past & Present

by Herb Dickson

As we change QUARTERLY editors it is proper to pay tribute to the previous editor and others who have gone before him. As APS members we owe a debt of gratitude to these unpaid volunteers. A tremendous amount of time and effort is expended in keeping the QUARTERLY interesting, timely and of high quality, to benefit all of the membership.

I have been part of the APS since 1954. From working in close contact with the editors I got to know and became friendly with all of the editors to date. Florence Bellis had relinquished the job before we became acquainted.

Susan Watson (formerly Worthington) was editor when I first became involved with the Society. She made a wonderful editor - full of ideas and energy. Her greatest accomplishment was the production of the original Illustrated Primula Dictionary. It was first published in four Quarterly issues. She then revised it and it was published as a booklet for sale to members and others in 1959.

Charlie Gilman and his wife Alice are memorable to me for their enthusiasm and Charlie's sense of humour. Nancy Ford is remembered for her voluminous correspondence with people interested in primulas. The QUAR-TERLY reflected her enthusiasm and attracted many advertisers.

Anita Alexander deserves great credit for her special 25th Anniversary issue.

Later, Cy Happy III came along and with his wife Rita, put out a super QUARTERLY. They instituted the large primrose covers which extended from front to back. They also brought colour into some of the issues. As Cy was an avid grower and a successful exhibitor of Show and Alpine Auriculas, he injected this enthusiasm into articles he wrote for the QUARTERLY. After a number of years they needed a wellearned rest and relief from the job.

Larry and Linda Bailey then took on the job for three years, until pressure of business requiring his full attention ended their tenure. He presented extensive source lists for plants and supplies for the benefit of members.

At that time we were planning a special colour issue of the QUAR-TERLY in honour of my late wife, Dorothy, who, like me, had been a long-time APS member and worker. I will always be grateful to Cy and Rita Happy for taking over as interim editors. They did a superb job on the full colour issue and a few more afterwards, until Richard Critz volunteered.

Richard Critz rates as one of the better editors. Living in Pennsylvania, he endeavoured to make it a national publication. Many of us regret his retirement.

Thea Service Foster of Vancouver, Canada, is our new editor. She comes well qualified having edited the Alpine Garden Club of B.C. Bulletin for several years. She has promoted primula and auricula information and revived a growing interest in them among the members of the B.C. Club; which was

INTRODUCTION TO THE EDITOR

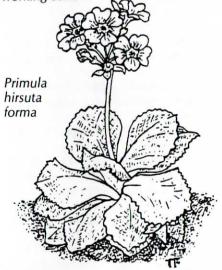
Our ambitious aim in editing (or at least one of them) is to reach as many Primula growers as possible. Much material comes from North America and the United Kingdom and is greatly appreciated, but, the APS has members world-wide.

Recently, Larry Bailey received a letter about Primula growing in Estonia. Wonderful! We would so enjoy hearing from members from other far countries, with the broadest representation of climates as possible.

Timing of seeding and dividing of Primulas is so dependant on local conditions that we would like to print articles giving this information, which we feel would be useful to members in other regions where Primulas are grown. This requires writers to give a brief outline of climate and soil conditions for their area, so that readers may judge whether the author's timing of procedures will suit their part of the world.

In the Pacific Northwest we grow in what is known as a 'soft' climate — generally moderate in temperature and wet in the winter. It is good Primula originally known as the Canadian Alpine and Primula Society from 1955 - 1966, at which time the name change was made. I am sure she will do a good job and deserves the support of the membership in contributing articles and other material for the OUARTERLY.

To a large segment of the membership the QUARTERLY is the APS. Without it and the SEED EXCHANGE, the Society would cease to exist. Few people realize the time and effort donated to the APS by its editors. It has been a privilege to work with, know and become friends with those hardworking editors.



country, somewhat like the Southwest of Scotland. Members we would like to hear from as well, are those who succeed under much more difficult growing conditions, giving their innovative methods for coping with extremely hot and cold weather.

Submissions need not necessarily be in article form. Shorter and less formal items and letters to the editor will be most welcome.

There is nothing any editor, especially a new one, appreciates more than a full to bursting letterbox. **TSF**

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'POLLINATING' MY WAY

From the mailbox

... For those living on the shores of the Baltic Sea, a door has been opened wide in the autumn of 1989 to countries on the Eastern Coast, the Republics of Estonia, Latvia and Lithuania. You can imagine our feelings on regaining our neighbors.

At the closest they were only 100 miles away but we were closed off from these countries for 50 years and were not free to travel there. In October, 1989, through the International Clematis Society, I received an invitation from the Estonian Horticultural Society to visit. From October 25th to 29th, I travelled 250 miles in North and Central Estonia, visiting the private gardens. The Plants reminded me of some of the earliest I remember of the late 1940's and early 1950's.

Gardening in Estonia is based on plant material from before World War II. Some had been obtained from old parks in the U.S.S.R., and some from other East European Countries. My hosts, the Editors of their Horticultural Journal, 'AIANDUS MESINDUS' told me of their efforts to present their readers with information about the Horticulture of the West. Their members are so anxious to fill their gaps in knowledge.

Growers urgently need good garden literature and journals, but are unable to obtain foreign currency in order to obtain this material. One Society they were most anxious to contact was the American Primrose Society. The Primula Genus is common in Estonia and many of the species are suited to their harsh climate.

Recently the people have been able

to show some independence and gardening is one way to do so. With almost stubborn enthusiasm they have, without resources, started up almost from scratch. They have an active interest in Horticulture, not always found in the West. The Editors of Aiandus Mesindus tell me there are 2700 waiting for subscriptions, but as they have no extra allotment for paper they cannot increase the number printed, and so cannot accommodate the new subscribers.

It would do much to encourage these growers if you could provide their Editors with the APS QUAR-TERLY, possibly giving them the permission to translate articles into Estonian for printing in ANAIDUS MESINDUS. It is likely that seeds of Primula species, native to Estonia, the other Baltic Countries and the U.S.S.R. could be provided to you in appreciation. The Editors look forward to hearing from you, they are: Mr. & Mrs. Maire and Mati Laane, Sompa Tee 33, 200019, Tallin, Estonia, USSR ... Sincerely yours:

> Lennarth Jonsson, Lindesh Asvagen 8, S.371, 45, Karlskrona, Sweden.

Lennarth Jonsson has written to us about his very recent trip to Estonia (the above is an edited version for space requirements.) We have written to the Estonian Horticulture Society Editors in hopes of learning about Primula culture there. APS members will no doubt wish to encourage such a dedicated group of growers. TSF. by: Thea Service Foster (with belated thanks to Cy Happy III)

My original reason for starting to hand pollinate was a very practical one. In my S.W. corner of British Columbia almost no primulas are sold. Just south of us in Washington and Oregon there is a heavy concentration of primula specialists who trade between themselves. There are also numerous excellent nurseries where a fairly broad selection of primulas are available. I also saw many more such lovely plants at the American Primrose Society Shows each spring which proved the value of hybridizing and careful selection.

In 1983, Larry Bailey gave me a hand pollinated pod from one of Herb Dickson's fine Blue Border Auricula plants which he had growing in his garden. The seedlings from that pod were very very good and showed me what a difference hand pollinating could make. These seedlings and other Blues and Yellows grown from H. Dickson's BORDER AURICULA seed strain became the basis of my breeding stock. From then on I was on my own, originally concentrating on producing bright clear unshaded flowers with clearly defined white eyes, on my Borders.

For years I studied every article available to me which described pollinating methods. There were many ways of transferring pollen - all used with obvious success by well-known breeders, however it wasn't until I read Cy Happy's (Spring 1977 Primroses) item about picking up pollen on the slightly moistened tip of his penknife that I felt I'd found the ideal method for me.

One of my favourite all-round tools is an Xacto Craft Knife with a narrow



'Fambridge' Border Auricula

stencil blade, preferably the model with a slender 1/4" dia. handle. It is light and easy to manipulate. The floury consistancy and quantity of the pollen shows up clearly on the silvery metal of the blade and you can see when it has gone off onto the receptive pistil. The blade is very easily wiped clean between usings, usually on the seat of my slacks (as are my hands).

As has often been mentioned by others - a flower that is just opening is usually the best subject for pollination. If ample pollen is available, the application is repeated two or three times on a single flower. This seems to result in a higher seed yield - but I have not done a controlled study, as yet, to ascertain results. Joe Dupre does say that it does result in seed with a higher protein concentration.

If a particular cross is one from which I am especially anxious to produce a bumper seed harvest, a large number of flowers will be pollinated. I have not noticed any sapping of the

constitution of a seed parent thus used, but, it is necessary to keep the parents in optimum growing condition for the three to four months while the seed is developing.

Record keeping is a most vital part of a breeding program. My pollinated flowers are marked by slip-knots of sewing thread with a piece of masking tape folded over the ends, sticky sides together, forming a 1/2" x 1 1/2" twosided label. Pollinating notes (date and both parents identified in case the pot label is lost) are written on the tape with a fine permanent marking pen. Each cross is promptly recorded and how much pollen used, and how many flowers pollinated. This is done in a special hybridizing notebook. As my notebook was lost once, almost forever in Seattle, I now make a duplicate of each day's crosses in my garden diary.

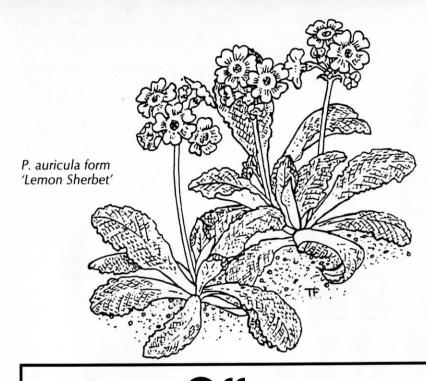
In the flush of spring bloom, it can be very tempting to go off on many breeding tangents. In April 1989, in addition to hybridizing my Border Auriculas, P. marginata and P. hirsuta forms were used in numerous crosses. I could not resist trying a cross between two Species Auriculas. They were raised over ten years ago from seed wild collected from adjoining Austrian Alps - Mount Schneeberg and Mount Rax. The former is a very small species with ruffled unmealed leaves. The flowers are in lovely rounded clusters and are light yellow, with nicely mealed white centres. This plant won a lst in its maiden flowering in an A.G.C. of B.C. Pot Show in 1981, and has won consistently ever since including the VIRAGS 1989 Show in Victoria, B.C. It is now known as P. auricula form 'Lemon Sherbet".

The plant from Mount Rax seed is strikingly mealy and vividly yellow flowered. Unfortunately, it is typical of species auriculas and is a shy-bloomer (every 2nd or 3rd year, if I am lucky). P. auricula f. 'Lemon Sherbet' is a most remarkable plant however, in that it has never failed to flower in both Spring and Fall, with an occasional third small flush in December or January! "Lemon Sherbet' produced open pollinated seed in 1988 which was sown when ripe in August '88. In the period from August '89 to late October several of the small seedlings had each bloomed twice. My high hope is that my crop from the two Austrians may consistently produce seedlings which are bright coloured and annual bloomers (or rebloomers if the gene is transmitted).

Last April I acquired a P. marginata hybrid 'Lou Roberts' (P. m.'Linda Pope, x 'Marvin')* when it was in flower. LOU ROBERTS was an early APS member who helped FLORENCE BELLIS to assemble the earliest APS Quarterlies, working on her Milwaukie, OR., diningroom table. It was promptly crossed onto P. m.'Agee' - producing a splendid crop of seed. (Fresh seeded in August it has started germinating since our first light November frost). 'Lou Roberts' surprised me by producing two more spikes of its lovely deep 'Linda Pope' blue, white-eyed flowers in very late May. Not to be satisfied with that stellar (encore) performance, 'Lou Roberts' came out again in early August, continuing well into September! As I was enchanted by this third coming - 'Lou Roberts' was used on P. auricula f.'Lemon Sherbet' on August 5th, resulting in a harvest of 80 seeds in November! These were immediately seeded and started germinating on Jan. 12th this year - 12 so far. (Encore! Encore!)

* P. venusta x marginata = 'Marvin' (violet). P. auricula x carniolica = P. venusta.

Next - 'SEEDING' MY WAY.



Offsets

BARNHAVEN PRIMULA SEED

lared Sinclair advised by a letter from England dated 12-12-90, that Barnhaven, source of the world-famous Barnhaven primula seed, will be closing its door forever as soon as the supply of seeds are exhausted. Jared anticipates that the closing will be long before his deadline date of June 30th. Hopefully Jared will submit an article for Publication to the Editor of the Quarterly, to include details about the closing, his future plans, continuation of the Barnhaven seed strains, etc. The world of primroses will miss Jared Sinclair, but hopefully, someone will continue with the Barnhaven primula strains.

The latest Barnhaven primrose seed catalog states that there are only two sources of supply for genuine Barnhaven seed, Barnhaven itself, and the Far North Gardens in Livonia, Michigan. Jared stated that Barnhaven has not sold seed to the Far North Gardens since 1986.

Despite information included in the February 1990 issue of the Flower & Garden Magazine indicating that the Far North Garden is open, it is understood that the company has been closed for some time, e.g., letters not answered, telephone disconnected, etc. Any definite information concerning the current status of the Far North Gardens would be appreciated.

BLUE FLOWERED DENTICULATA

The 1990 Thompson & Morgan catalog lists denticulata seed packets whose color includes seed for "deep blue" flowered plants. Beth Tait told me some time ago she believed Jack Drake's nursery in Scotland sold some

American Primrose Society

"blue denticulatas." Do you know of any other company that may sell "blue" (true blue, not lavender blue) denticulata seed? If you have, or know of any one who has, a "blue flowered" denticulata plant please contact Don Keefe at 22604 N.E. 20th Pl., Redmond, WA 98053.

CREEPING ROOTSTALKS AND BLOOM TIMES OF JULIAE HYBRIDS

Here is a quote from an article by Florence Bellis appearing in the APS Quarterly, Fall 1973, which may interest hybridizers: "... all hybrids between P. juliae and polyanthus bloom in polyanthus time, and all hybrids between P. juliae and acaulis bloom earlier in acaulis time. And the hybrids seldom creep, if ever, in the first few generations. They do their creeping when they are much older, generation-wise ..."

APS QUARTERLY BACK ISSUES

If you live in or happen to visit the Seattle area, drop in at the main Seattle Public Library. Except for the very early issues, the library has almost a complete collection of the APS Quarterly back issues, bound in hardcover volumes. Also, visitors may peruse through the University of Washington libraries. The graduate school library has back issues of some of the APS Ouarterlies, and of many American, English and German gardening magazines. You will find more information in the European magazines concerning primulas than in most American ones. The library has some primula books, including G.K. Fenderson's "A Synoptic Guide to the Genus Primula." Old Quarterlies may also be purchased from the APS by contacting Jay Lunn, APS Treasurer, 6620 N.W. 271st Avenue, Hillsboro, OR 97124.

NOTES FROM DON KEEFE

Dividing Primula Plants: Last spring, I divided two of my top-notch primulas into single crown plants. During the early summer I decided to divide them again, as double crowned plants were starting to appear. Then, I tried something new. I separated the new crowns from the plants again. Using a singleedged razor blade, I then split the plants again, right down the middle of each plant, cutting through each stem and adjoining root. The larger scraps left, e.g., part of a stem without roots or vice versa. I won't say that they all rooted; as they didn't. But most of them rooted, including many from the scraps. I was out of rooting compound so I didn't use it: nor did I use sulphur powder.

One of the plants I divided is what I call "Mary's Gold". It is a delightful bright yellow juliana with a creeping rootstalk, probably a "Sakata" dwarf. Almost all of the tiny new plants started blooming in the fall and are still blooming, as Larry Bailey and others can testify. Most of them already have one to three new crowns. However, quoting from Herb Dickson's article in the APS, Winter 1981 "This lack of dormancy makes them subject to winter damage in severe weather." The plants have withstood several freezing periods so far, without any damage to speak of, but we haven't had any severe freezing weather in the Seattle area yet this year.

The other plants divided were P. x Peter Klein hybrids. Peter Klein is the result of a cross between the light pink, half hardy *P. clarkei* and the hardier *P. rosea*. The are sturdy plants and have withstood the short bouts of freezing weather well. I'm surprised that more APS members do not grow this attractive plant. My plant starters were purchased at the Wells Medina Nursery (near Bellevue, WA). This nursery often sells species and hybrid primulas.

Growing Primulas around Conifers: I have read that primroses should not be grown near conifers. Nevertheless, many of my primroses are grown under or around the edges of a tall hemlock tree and many tall cedars. With the branches thinned out and the smaller cedar trees being removed, the primulas seem to grow and bloom fairly well. The area is so attractive, with brick lined paths wandering through the wooded area, between rhodies, azaleas, and many perennials, that removing the trees would spoil the beauty of the setting.

Rosetta Jones' Pop Bottle Gardening: To grow primula and other seeds, I use Rosetta Jones' absolutely delightful method of using two liter plastic pop bottles as miniature greenhouses. If interested, I suggest that you read Rosetta's articles in the Winter 1982 and/or the Summer 1985 Quarterlies. If you have problems germinating seed (damping off, forgetting to water them, etc.) the use of Rosetta's pop bottle culture is the cure.

Show Auriculas Primulas Dianthus Customers who wish to remain on our Mailing List please fill in your Name and Address and return to Craven's New Address CHANGE OF ADDRESS will Customers please note that 1st November, 1989

Craven's Nursery will be trading from the address below:

Praven's Nursery

S. R. & M. CRAVEN Hall Barn Nurseries, Windsor End, Beaconsfield Bucks, HP9 25G Telephone: (0494) 674139

NEW CROP SEED LIST NOW AVAILABLE HAS MANY ADDITIONS

SEED of DOUBLE ACAULIS and DOUBLE AURICULA

NEW SEED CROP IN AUGUST Minimum Order - 50 seed - \$5.00

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NATIONAL AURICULA AND PRIMULA SOCIETY – West and Midland Section

Invites all Auricula and Primula Lovers to join this Old Society Membership includes year Book Hon. Sec., Mr. B. Goalby 99 Somerfield Rd., Bloxwich, Walsall, West Midlands, U.K.

American Primrose Society

'PRIMULAS OF THE BRITISH ISLES'



The new book, PRIMULAS OF THE BRITISH ISLES by Dr. John Richards, Senior Lecturer in Biology at the University of Newcastle upon Tyne, is proof positive that good things do come in small packages.

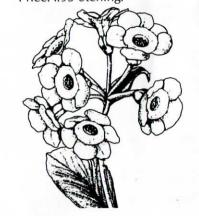
Dr. Richards begins with a section on native primulas of the British Isles, including "clear maps indicating the distribution of the various species. The author included the bird's eye primrose (*P. farinosa*) the Scottish bird's eye (*P. scotica*) the primrose (*P. vulgaris*) The cowslip (*P. veris*) and the oxlip (*P. elatior*). Habitats of the species are carefully defined. Differences are unusually well detailed. Hybrids between the Primrose, Cowslip and Oxlip occurring in the wild are included.

Colour photos used are clear and colour-register appears to be absolutely true. A close up of red-violet *P. scotica* is the best I have ever seen. What a choice small gem it is.

There is also a brief but useful review of Primula hybrids currently growing in the British Isles with a few colour photos of them. The charming plate of Primula 'Garryard Guinevere' often shown at APS N.W. Shows, particularly caught my eye. The final pages are devoted to a very interesting and well documented discussion of **hetrostyly** and **homostyly** in Primulas. Wonderfully sharp scanning electron micrographs (x200) are used to illustrate the difference in the stygma surfaces of pin and thrum eyed primula flowers. These much enlarged photographs should fascinate hybridizers, as will this entire section.

The text is enjoyable and most precise - Not a word has been wasted. TSF.

Published by: Shire Publications, Cromwell House, Church Street, Prince's Risborough, Aylesbury, Bucks. U.K. HPI7 9AJ. Price: 1.95 Sterling.



AURICULAS: Their Care and Cultivation by: Brenda Hyatt

In the Fall Quarterly the address of the publisher, Cassell, London, was inadvertently omitted and should read: Cassell, Artillery House, Artillery Row, London, SWI IRT. att'n. Mr. Barry Holmes. **Price: 12.95 Sterling**

Primula Seed Sources

HORTICULTURAL SOCIETIES THAT OFFER SEED EXCHANGES WITH PRIMULA SEED

American Primrose Society

Alpine Garden Club of B.C.

American Rock Garden Society

Berry Botanic Garden

Matsumoto Sakrasoh & Primula Club

The Alpine Garden Society

The Scottish Rock Garden Club

Jay Lunn, Treasurer Rt. 5, Box 93 Hillsboro, OR 97124

Gerry Gibbens, President 803 Lillooet Rd. North Vancouver, B.C. V7J 2H5 Canada

Miss Buffy Parker, Secretary 15 Fairmead Road, Darien, CT 06820

11505 S.W. Summerville Ave. Portland, OR 97219

Kazuo Hara, Secretary 9-21 Miyata, Matsumoto Nagano 399, Japan

The Secretary Lye End Link, St. John's Woking, Surry England

Mrs. Evelyn Stevens, Secretary The Linns, Sheriffmuir Dunblane, Perthshire FK15 0LP Scotland, UK

HORTICULTURAL SOCIETIES WITH INFORMAL PRIMULA SEED EXCHANGES

National Auricula and Primula Society - Northern Section

National Auricula and Primula Society - Midland and West Section

National Auricula and Primula Society - Southern Section Mr. D. G. Hadfield, Hon. Secretary 148 Queens Road, Cheadle Hulme Cheadle, Cheshire SK8 5HY England

Mr. G. Morris, Hon. Secretary 28 Little Sutton Road, Four Oaks Sutton Coldfield, Birmingham England

Mr. L. E. Wigley, Hon. Secretary 67 Warnham Court Road Carshalton Beeches, Surry, SM5 3ND England

COMMERCIAL SOURCES FOR PRIMULA SEED

Many of the following commercial seed companies only offer seed through wholesale or large orders. APS members are encouraged to write to the following firms to obtain their current catalogues or information on the locations of retail outlets for their seed. When writing, members are also encouraged to mention that the source of the company's name and address was through the American Primrose Society.

Albiflora

Chiba 272-01 Japan

American Takii, Inc.

Anita Alexander

Appalachian Wildflowers

Ball Seed Co.

Bodger Seeds Intl.

Brenda Hyatt Auriculas

Chehalis Rare Plant Nursery

Chiltern Seeds

Chris Chadwell

Craven's Nursery

Daehnfeldt Inc.

Donnington Nursery

G. Ghose and Co. Germania Seed Co.

H. G. German Seeds

Harris Moran Seed Co. Holden Clough Nursery P.O. Box 24 Gyotoku, Ichikawa,

301 Natividad Rd., Salinas, CA 93906

35180 S.E. Hwy. 211, Boring, OR 97009

Route 1, Box 275A, Reedsville, PA 17084

P.O. Box 335, W. Chicago, IL 60185

P.O. Box 5090, El Monte, CA 91734

1 Toddington Creascent, Bluebell Hill, Nr. Chatham, Kent ME5 9QT England

2568 Jackson Highway, Chehalis, WA 98532

Dept. AS, Bortree Stile, Ulverston, Cumbria LA12 7PB England

81 Parlaunt Road, Slough, Berkshire SI3 8BE England

Hall Barn Nursery, Windsorend, Beaconsfield, Bucks, HP9 2SG England

P.O. Box 947, Albany, OR 97321

Donnington House Main Rd. Wrangle, Boston, Lincolnshire PE22 9AT England

Townsend, Darjeeling, India

5952 North Milwaukee Ave. Chicago, Il 60646

201 West Main St. Smethport, PA 16749

1155 Harkins Rd., Salinas, CA 93901

Holden, Clitheroe, Lancs. BB7 4PF England (Nr Bolton-by-Bowland)

1990 Winter Quarterly

Inshriach Alpine Plants

lellito

Kieft Blumensamen

L. Daehnfeldt, Inc.

L. S. A. Goodwyn and Son

Northrup King Co. P. Kohli and Co.

Rocky Mountain Rare Plants

Rosetta Jones

Sahin, Zaden B.V.

Sakata Seed Corporation

Saltspring Primroses

Samen Mauser AG Dubendorf

Sluis & Groot (Flw Seed Div)

Southwestern Navtive Seeds Stokes Seed Co. The Primrose Path Thompson and Morgan Torbay's Plant World

Aviemore, Inverness-shire, PH22 1QS Scotland

Staudensamen Postfach 560127 D-2000 - Hamburg 56 West Germany

P.O. Box 1000, 1695 ZG Blokker, Holland

P. O. Box 947, Albany, OR 97521

Goodwyn's Road, Bagdad Sth 7407, Tasmania, Australia

P. O. Box 959, Minneapolis, MN 55440

Park Rd., Srinagar, Kashmir 190009 India

P.O. Box 20092, Denver, CO 80224

E. 170 Dunoon Pl, Shelton, WA 98584

Postbus 227, Gerard Doustraat, 32400 AE Alphen a/d Rijn, Holland

C.P.O. Box Yokohama No.11 Yokohama lapan

2426 W. 47th Ave. Vancouver, B.C. V6M 2N2 Canada

Zuurichstrasse 98, CH-8600 Duubendorf 1, Switzerland

4600 S. Ulster St., Suite 700 Denver, CO 80237

P.O. Box 50503, Tucson, AZ 85703 Box 548, Buffalo, NY 14240 RD 2, Box 110, Scottdale, PA 15683 P.O. Box 1308, Jackson, NJ 08527

St. Mary Church Road, Newton Abbot, S. Devon., England

PRIMULA JULIAE HYBRIDS -SAKATA TYPES

by: Don Keefe



General: Most APS members have never seen a Sakata seed catalog. Many are not aware that some are hardy and some are half-hardy! Many do not know where to purchase Sakata's dwarf hybrid primula seeds. Many do not know where to buy Sakata primula seed retail. Many are unaware whether the Sakata dwarf hybrid plants sold at supermarkets are the half-hardy (1) Lovely Series plants or the hardy Julian Hybrid plants. I hope that the contents of this paper will be of help to you. I do not know myself where the Sakata dwarf Julian Hybrid seeds can be purchased retail. As soon as I find out I will submit a notice for publication in the next APS QUARTERLY.

Sakata Seed Corporation's catalog for 1988-89 lists two types of what are described as 'Primula Acaulis' extra dwarf plants with small leaves. One type is called miniature 'Julian Hybridas' and the other type is called semiminiature 'Fl Hybrid Lovely Series.'

Julian Hybridas are listed as being amazingly tolerant to cold, with one exception (see Julian Hybrida Mixed below), and as having a most fascinating color range. There are five varieties, namely:

Julian Hybrida Mixed are miniature types of **Polyanthus** (in bright shades of blue, yellow, apricot, red, pink and white. The plants are 4" tall,(2)) and are fairly resistant to cold.

Julian Bicolor Mixed are mainly pink. The balance of the plants range from orange to yellow. Distinct ringed eyes give them a bright bicolor effect.

Julian Cheerleader Mixed are bicolored, with deep eye marks, with larger flowers than the Julian bicolors. The flowers are 2" across.

Julian Gold Ridge Mixed (are 2" tall)(3). All of the flowers have distinct gold or silver edges with conspicuous yellow centers. They bloom slightly later than the other Julians. The flowers are 1 1/2" across. Blooms slightly later than others.

Julian Cherriette Mixed have new cherry shaped blooms. Flowers are about 1 1/2" across. Flowers early.

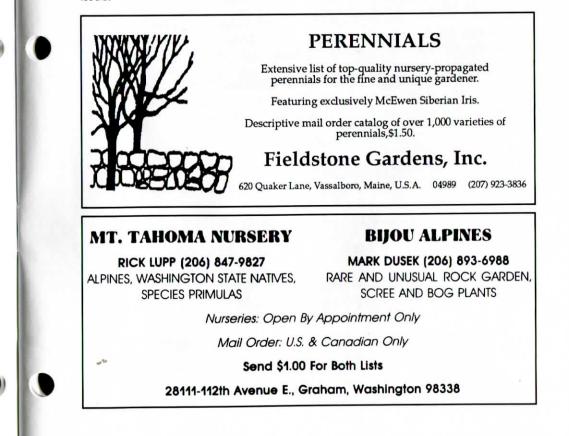
Lovely Series hybrids are described as Fl hybrids, and are extra early flowering, with flowers 1 1/2" in diameter borne in great profusion. Their height is about 3 1/2". The plants remain dwarf and compact. The flowers come in apricot, blue, pink, pink- bicolor, rose, scarlet and white. (The Park Seed Com-

pany list the plants as being half-hardy. I don't know whether they are Juliae hybrids or not. I forgot to ask Cy Happy or Jerry Flintoff. Creeping Rootstalks. At a recent meeting of the Seattle APS Chapter, both Cy Happy and Jerry Flintoff assured me that the Sakata dwarf primroses may have creeping rootstalks. Cy Happy's article in the APS QUARTERLY, Spring 1985, states in part: "A tiny brilliant red Julian hybrid from Sakata seed is starting. Only I I/ 2" high, it has a spreading habit but not round leaves like P. juliae. I have had this plant for about eight years. It is very hardy and multiplies nicely."

Where to Purchase? I have been unable to find a company that sells the

hardy Hybridas seed retail. Parks Seed Catalog for 1990 lists the half-hardy Lovely Series mixed seed packets. Thompson & Morgan seed company no longer list any types of Sakata seed.(40) Whether local retail stores (supermarkets, etc.) sell Julian Hybridas or the Lovely Series hybrid plants is at their discretion. I believe that they have sold both of them at different times. If you know of a nursery or seed company that sells Julian Hybridas seed retail, please advise the APS Editors. Herb Dickson's Comments. The following is a quote from Herb Dickson's article in the APS QUARTERLY, Winter 1981. "Recently a strain of mini-juliana seed has come on the

A photograph of a Sakata type Juliae hybrid was not available. The one used is an 'anon.' hybrid — we will print a photo of a Sakata hybrid in the Spring Issue.



American Primrose Society

Spring Shows 1990



TACOMA PRIMROSE SOCIETY March 30th - April 1st

NATIONAL SHOW VALLEY HI PRIMROSE SOCIETY April 7th & 8th Bernard Beaverton Mall Beaverton, Oregon

WASHINGTON STATE CHAPTER April 14th

EASTSIDE PRIMULA SOCIETY April 20th & 21st

OREGON PRIMROSE SOCIETY April 21st and 22nd

For further details regarding any of the regional shows please contact society officers listed on page 37 of this issue.

SHOW DATES IN THE UNITED KINGDOM

The Northern Section of the NATIONAL AURICULA & PRIMULA SOCIETY have held their Shows on the same day for many years. They have established the first Saturday in April for the Primula Show and the first Saturday in May for the Auricula. The Primula Show is held in Leeds and the Auricula Show in Manchester. Neither area is noted for its flora, although Leeds is not far from The Dales where Farrer found P. farinosa. On the same dates, the ALPINE GARDEN SOCIETY hold Shows not more than 3 or 4 miles distant, so the truly nippy enthusiast can take in two shows on the same day. Overseas visitors may do two for the price of one, so to speak.

The Southern Section of the NAPS has scheduled their Primula Show for Saturday, April 7th, 1990, at the Village Hall, Horton Road, Datchet, Berkshire. Their Auricula Show on Saturday, April 28th, 1990, at Church House, Holy Trinity Church, Brompton Road, London, SW7. As these two dates and venues may be subject to change, a quick confirmation to the Secretary: L. E. Wigley, 67 Warnham Court Road, Carshalton Beeches, Surrey, SM5 3ND, may be advisable.

PRIMULA & AURICULA CONFERENCE - 10th MARCH 1990

Organized by the N.E. Section of the NAPS, this Conference is to be held at Houghall College of Agriculture and Horticulture, Durham, with hours from 9:30 am until 5:00 pm. Speakers booked are:

Dr. G. Smith, European Primulas and their Hybrids in the Wild, their Location and Taxonomy.

Mr. B. Burrow, European Primulas and their Cultivation in the Garden.

Dr. A. Richards, Asiatic Primulas and their Cultivation.

Mr. D. Hadfield, The Show Auricula - Its history, its present qualities, the aims of the hybridiser.

All talks will be illustrated with slides.

VANCOUVER ISLAND ROCK AND ALPINE GARDEN SOCIETY

This long standing Alpine and Primula Show will be held 27th and 28th April, 1990, at St. Mary's Anglican Church, Elgin Street, Oak Bay, Victoria, B.C.

NATIONAL AURICULA AND PRIMULA SOCIETY – Northern Section

Invites all Auricula and Primula Lovers to join this Old Society Membership includes year Book

D. G. Hadfield 146 Queens Road, Cheadle Hulme, Cheadle, Cheshire, England

NATIONAL AURICULA AND PRIMULA SOCIETY – Southern Section

Invites all Auricula and Primula Lovers to join this Old Society Membership includes year Book

Lawrence E. Wigley 67 Warnham Court Road, Carshalton Beeches, Surrey, England



Treasurer's report: The U.S. Postal Service is scheduled to increase the postage rates in 1991. The Board will discuss any raise in membership fees in time to have such an increase in effect for 1991.

The treasurer has obtained a Nonresident Permit for Exemption of sales tax in the state of Washington. To avoid paying sales tax, the product purchased by the Society must be consumed outside the state. Retailers, however, are not required to make tax exempt sales to nonresident permit holders.

Membership applications have been printed. Any individual or chapter who needs a supply, please contact Jay Lunn.

Board Meeting, Time and Place: The Spring Board Meeting will be held at the National Show, April 7th & 8th, 1990, in Beaverton, Oregon.

It was suggested that Chapter Presidents, who are unable to attend a board meeting, provide input in writing or appoint another member who can represent their Chapter.

1992 Primula Conference: Richard Critz has resigned as Conference Chairman. Possible replacements for this position have been contacted, but have not made a decision.

A committee consisting of Larry Bailey, Flip Fenili, Jay and Ann Lunn and Sue Chilton met in September to discuss the status of the Conference. Their recommendation was that the APS proceed with the Primula Conference

Board of Directors' Meeting

October 14, 1989

in celebration of their 50th Anniversary on a scale and schedule compatible with the resources of the APS. A motion was made and approved to accept this recommendation. In keeping with this intent, the Board suggested that the Conference be limited to three days and include three speakers from overseas; the remainder would come from the United States and Canada. Expenses should be controlled in order to require a reasonable registration fee. Co-chairman might be selected in order to divide the work and responsibilities. Larry will contact the Royal Horticultural Society and the Berry Botanic Garden to advise them of any changes when plans have been detailed.

Spring Primrose Shows: The National Show will be hosted by the Valley Hi Chapter on April 7th & 8th, 1990. The location will be the Beaverton Mall, Beaverton, Oregon. Other show dates include:

Tacoma Chapter - March 30th & April 1st, 1990

Washington State Chapter - April 14th, 1990

Oregon Primrose Society - April 21st & 22nd, 1990

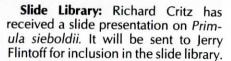
Eastside Chapter - April 20th & 21st, 1990.

Quarterly: The Board approved the selection of Thea Service Foster as the new Quarterly editor. She will begin her duties with the Winter 1990 issue. **Historian:** The Board approved the

appointment of Anita Alexander as historian. Archives will be maintained at the Berry Botanic Garden in Portland, Oregon. An article will be placed in the Quarterly to urge any members to send pertinent information or materials to Anita.

Seed Exchange: A motion was approved to enable APS members to donate money (\$25 is suggested) in lieu of Primula seed in order to be put on the Donors List. Such a policy would increase the financial resources for more seed purchases and would allow members, without Primula seed, a better opportunity to obtain seed of their choice.

The seed list will be included in the Winter Quarterly. Overseas members will receive individual lists via airmail.



APS Letterhead: Stationery and envelopes have been purchased. Chapters needing a supply should contact President Larry Bailey. Chapters who wish to have a quantity printed with their name on the letterhead should contact Larry for a price list.

Announcements: A nominating committee will be appointed to prepare a slate of officers for 1990.

The Society wishes to thank the Washington State Chapter for their \$200 donation.

Respectfully submitted,

Ann Lunn, Secretary.

CHEHALIS RARE PLANT NURSERY 2568 Jackson Hwy., Chehalis, WA 98532 Herb Dickson, Prop.

After 30 years of selecting and breeding, I have developed an improved strain of Garden Auricula with a complete palett of color.

Mixed Garden
Yellow Garden
Blue Garden

White Garden Brown Garden Red Garden

Exhibition - Alpine

Petite Hybrids, a strain of small species and hybrids in a wide range of color. The above \$1.00 per packet of 50 seeds.

Primula Florindae & Mixed Candelabra Generous packet \$1.00 each.

Hand pollinated Show Auricula Red Self Green Edge Yellow Self Gray & White Edge \$2.00 per packet of 25 seeds.

Hand pollinated Double Auricula Mix \$3.00 per packet of 15 seeds

MINIMUM ORDER \$5.00 Post free in U.S. and Canada Overseas orders please add .50 cents.

1990 Winter Quarterly

Primula frondosa

See seed list

Hardy outdoor auriculas



Differences

Not everyone understands the differences between these two fine garden plants. Border auriculas should have some meal and little or no color shading on their petals. Garden auriculas have little or no meal and may show color shading and centers similar to alpine auriculas.

Both are capable of beautiful colors. The attractive foliage stays green all year. They are perfect for border edging or for rockeries.

Commercial seed is available. Both are listed on the APS seed exchange. Try to get seed of selected colors—unless you are fond of mud tones. Border and garden auriculas are outdoor plants—hardy and colorful. These spring-blooming perennials should grow anywhere in the United States and southern Canada. They don't like strongly acidic soil nor hard dry frosts, however. In the winter they require cover (snow or evergreen boughs, for example) during a hard freeze.

Welcome at shows

Border and garden auriculas are welcome additions to show benches in England and the United States.

Herb Dickson Yellow Prizewinner Photo by Cy Happy III

A Few Highlights From The Seed Exchange

by: Thea Service Foster

Members wanting a clear 'picture' of Primula species and forms, might find it worthwhile to consult **Joseph Halda's** series of articles in recent Quarterlies - and to see **Jarmila Haldova's** precise and beautiful botanical drawings of many of the Exchange listings. (ie: The *P. verticillata* forms, rarely seen in photos but beautifully illustrated in the Summer 1988 QUARTERLY).

P. anisidora seems to get some of the worst press of any species. The consensus is that it is a "dull plant". I had a form from the University of B.C. Botanical Gardens that was a handsome deep red with a conspicuously vivid yellow eye. The leaf crown was strong and attractive - not 'dull' at all.

Cravens Nursery Catalogue offers 40 hybrid Juliana Wanda selections, one of which is listed. In the Fall I saw Wanda x 'Rosy Posy' in a Pot Show - it was vivid pink with strongly veined bronze leaves, a most desirable plant. They should be worth trying.

Double Auricula fanciers will find two hand pollinated offerings.

32 hybrid Auricula selections should give both gardeners and hybridizers a splendid chance to add to their stock of plants. Species Auriculas (Auriculastrum) are also remarkably well represented by a splendid number of wild collected seed choices, as well as the vernals from the Tatras and elsewhere. TSF.



P. verticillata by: Jarmila Haldova. (somewhat tender)

AMERICAN PRIMROSE, PRIMULA AND AURICULA SOCIETY **1990 SEED EXCHANGE**

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The APS Seed Exchange is open to all members in good standing. Any member who has not paid their 1990 dues can renew their membership at the time of placing an order for seed by making out a Check or Money Order for \$10 US dollars to: Jay Lunn, APS Treasurer.

Seed prices are 40 cents (U.S.) per packet, with a minimum order of \$4.00 (U.S.) (for 10 packets). Make all remittance to THE AMERICAN PRIMROSE SOCIETY SEED EXCHANGE by personal Check, Bank Draft, or Money Order.

Personal Checks from foreign members will be accepted in currencies of the following countries: Australia, Belgium, Canada, Denmark, Holland, Federal Republic of Germany, Great Britain and Northern Ireland, Japan (Roman alphabet and Arabic numerals, please), New Zealand, Norway, Sweden, and Switzerland. Please, insure that foreign checks are made out to cover the U.S. Dollar amount plus 5%.

Mail all orders to Mr. Peter Atkinson, APS Seed Exchange, P.O. Box 59541, Renton, WA 98058.

The seed is listed first by Primula Section and then the species name. G.K. Fenderson's book "A Synoptic Guide to the Genus Primula" was used as the guide for classification and spelling. In most cases, where names have been changed, the original name as submitted is enclosed in parenthesis. Abbreviations and symbols used in the seed listing are as follows:

- = seed of very limited quantity **
- * = seed of limited quantity

- н = hand pollinated
 - = open pollinated
 - = open pollinated in isolation
- = sub-species ssp
- = variety var
- = previous botanical name (Aa)
- (15) = minimum number ofseeds per packet
- Col = collected in native habitat [D30]= source of seed (see donors list and other sources)
- BG = (university) botanical garden or institute
- AS = Academy of Sciences botanical garden or institute

The number of seed in each packet varies according to the quantity of seed received. Members are encouraged to make requests for seed of limited guantity (marked * and **), but it is requested that substitutions do not include seed of limited quantity. Orders will be processed in the same sequence as received, except, of all orders that have been received at any given time, those from donors who are members will be processed before those from the general membership.

- ****** SECTION ALEURITIA
- *001 algida [B21](5)
- **002 algida [B6](5)
- **003 baldschuanica Col near Sargardak, Uzbekistan [D17](5)
- 004 conspersa [B12](7)
- 005 darialica [B27](7)
- 006 darialica [B5](10)
- 007 darialica [U](15)
- 008 darialica [987[B2](10)
- 009 darialica [987[B33](10)

1990 Winter Quarterly

010 darialica [987[B8](10) 011 farinosa [B13](20) 012 farinosa [B17](20) 013 farinosa [B20](20) 014 farinosa [D27](20) 015 farinosa [U](15) 016 farinosa Col [B32](20) 017 farinosa Col Tyrol, Austria [D17](10) *018 farinosa ssp exigua [D24](5) 019 frondosa [B25](15) 020 frondosa 1988[B27](15) frondosa [B7](5) *021 022 frondosa [B8](15) 023 frondosa [B9](15) 024 frondosa [D15](10) 025 frondosa [D17](15) 026 frondosa [D21](15) 027 frondosa 1989[D34](15) 028 frondosa [U](15) 029 halleri [B22](10)

- 030 halleri [B8](10)
- 031 halleri [D21](10)
- 032 inayatii Col Kashmir, India [D17](10)
- 033 mistassinica [D15](10)
- 034 mistassinica var macrop-
- oda [B7](8) 035 mistassinica var macropoda 1988[U](10)
- 036 modesta 'Alba' [D27](8)
- 037 modesta var alba
- [D17](6)
- *038 scandinavica [B22](10)
- *039 scandinavica Col 400M Lom, Vagavatn, Norway 9/10/87[B22](5)
- *040 scandinavica Col 900M Vaga Russli, Norway 8/ 31/88[B22](5)
- 041 scotica [D19](6)
- 042 specuicola [C3](8)
- 043 stricta [D30](8)
- 044 stricta 1987[U](8)

SECTION ARMERINA

045 nutans [D17](8) 046 nutans (sibirica) [U](7) **047 vargongensis [U](10)

SECTION AUGANTHUS

*048 sinensis (praenitans) [B17](6)

SECTION AURICULA

049 auricula [B10](8) 050 auricula (B13)(10) 051 auricula [B17](8) *052 auricula Col [B2](5) *053 auricula Col [B2](5) 054 auricula [B27](8) 055 auricula [B28](8) 056 auricula [B29](5) 057 auricula [B5](10) *058 auricula [B6](5) 059 auricula [B8](10) *060 auricula [D30](5) 061 auricula [U](15) 062 auricula [U](15) 063 auricula (ssp ciliata) Col [U](5)*064 auricula Col [B27](6) 065 auricula Col Obersteiermark, Austria [D17](7)*066 auricula Col Treubsee, Obwalden, Switz. [B2](5) 067 auricula Col West Tatras 8/11/89 [D46](8) 068 auricula ssp bauhinii [D27](5) 069 clusiana [B13](10) 070 clusiana [B8](10) **071 clusiana Col 1700-2000M Kaernten Rax-

- alpe, Austria [D17](5) **072 daonensis [U](5)
- 073 daonensis Col 2500M
- Alpes Rhetiques, Switz. [B18](5)
- 074 deorum Col 2000M Rila Mts, Bulgaria 1988[D24](10)
- *075 glaucescens [B22](5)
- 076 glaucescens (var calycina) [D15](6)
- *077 glaucescens Col 1988[B27](5)
- 078 glutinosa [B8](15)

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- 079 glutinosa Col 2500M Dolomites, Italy [B18](15)
- 080 glutinosa Col Kaernten, Austria [D17](6)
- 081 hirsuta [D27](6)
- 082 hirsuta Col [U](8) 083 hirsuta Col 800M Valais,
- Switz. [B18](8) 084 hirsuta Col Tyrol, Austria
- [D17](5)
- *085 hirsuta or latifolia (viscosa) [U](6)
- 086 integrifolia Col [U](10) 087 integrifolia Col 2300M
- Alpes Rhetiques, Switz. [B18](10)
- 088 latifolia [B11](10)
- *089 latifolia [B14](8)
- *090 latifolia [D17](5)
- 091 latifolia Col [U](8)
- 092 latifolia Col 2300M Alpes Rhetiques, Switz. [B18](8)
- 093 marginata [B18](5)
- 094 marginata 'Agee' x 'Lou Roberts' H1989[D48](5)
- 095 minima [B8](5) 096 minima Col Kaernten,
- Austria [D17](5)
- 097 palinuri [B34](6)
- 098 palinuri [U](10) 099 pedemontana Col
- [U](15)
- 100 pedemontana Col 1800M Alpes Grees, Italy [B18](15)
- 101 pubescens [B13](15)
- *102 spectabilis [B22](7)
- *103 spectabilis [U](7)
- 104 spectabilis Col [U](5)
- 105 villosa [U](5)
- 106 x pubescens [B10](15)
- 107 x pubescens [B14](10)
- 108 x pubescens [B15](15)
- 109 x pubescens [D17](10)
- *110 x pubescens [D30](5) 111 x thomasiana (hirsuta x
 - integrifolia) 1987[B2](8)

SECTION CAPITATAE

- 112 capitata [B17](15)
- 113 capitata ssp capitata [B5](15)
- 114 capitata ssp mooreana [B11](30)
- 115 capitata ssp mooreana 1989[D11](25)
- 116 capitata 1989[D46](15)

SECTION CORDIFOLIAE

- *117 barnardoana Col N.E. Nepal 1989[D35](5)
- 118 roxburghii (rotundifolia) 1989[D40](6)

SECTION CORTUSOIDES

- 119 cortusoides [B9](8)
- 120 cortusoides [D16](6)
- 121 geranifolia Col N.E.
- Nepal 1989[D35](5) 122 heucherifolia
- 1989[B31](10) 123 kisoana [D13](6)
 - 3 kisoana [D13](6)
- 124 kisoana 'Alba' [D13](6) 125 kisoana 'Alba' [D21](7)
- *126 kisoana 'Pink' [D21](5)
- 127 loeseneri l987[B2](10)
- 128 mollis 1987[U](15)
- 129 polyneura [B20](10)
- 130 polyneura [B5](15)
- *131 polyneura [B7](10)
- 132 polyneura O[D26](15)
- 133 polyneura [U](15)
- **134 saxatilis [B22](10)
- *135 saxatilis [B25](10)
- *136 saxatilis 1989[D1](6)
- 137 saxatilis S[D15](10)
- 138 saxatilis [D21](10)
- 139 saxatilis [U](15)
- 140 saxatilis 'Pink' [D11](15)
- 141 sieboldii [U](15)
- 142 sieboldii (patens) [D17](5)
- 143 sieboldii 'Japanese and English Cultivars Mixed' [D17](8)
- 144 sieboldii 'Large Flowered Kinds Mixed' [C1](8)

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145 sieboldii 'Mixed' [D18](8)146 sieboldii 'Mixed Colors'

H1989[D1](10) 147 sieboldii 'Pink' & 'White' [D7](10)

SECTION CRYSTALLOPHLOMIS

- 148 chionantha H1989[D34](10)
- 149 chionantha 1987[U](10)
- *495 macrophylla
- 1989[D49](10)
- 150 macrophylla [B11](10)
- 151 macrophylla [C2](10)
- *152 megalocarpa Col N.E. Nepal 1989[D35](5)
- 153 nivalis [B12](5)
- 154 sinopurpurea [B11](10)
- *155 sinopurpurea [D30](5) 156 sinopurpurea 1989[D40](10)
- 157 sinopurpurea 1987[U](15)
- 158 sinopurpurea 1988[U](20)
- **159 tschuktchorum Col Chukotski Pen., near Providenia, USSR [D17](5)

SECTION CUNEIFOLIA

160 suffrutescens [C3](10)

SECTION DENTICULATA

- 161 denticulata [B10](25) 162 denticulata [B11](25) 163 denticulata [B17](25) 164 denticulata [B18](25) 165 denticulata [B20](25) 166 denticulata [B23](25) 167 denticulata [B24](25)
- 168 denticulata [B24](25)
- 169 denticulata [B25](25) 170 denticulata [B27](25)
- 171 denticulata [B30](25)
- 172 denticulata [B6](10)
- 173 denticulata [B8](15)

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- 174 denticulata [C2](25)
- 175 denticulata [D17](20)

- 176 denticulata [D30](20)
- 177 denticulata 1989[D46](25)

180 denticulata (var

181 denticulata 'Alba'

182 denticulata 'Alba'

1989[D46](15)

183 denticulata 'Albiflora'

184 denticulata 'Grandiflora'

Colors' 1989[D1](15)

[B28](15)

[B6](10)

[B9](15)

185 denticulata 'Mixed

186 denticulata 'Mixed

187 denticulata 'Rubin'

188 denticulata 'Rubra'

189 denticulata var alba

191 denticulata 'White'

H[D11](10)

*192 juliae [C1](5)

SECTION MINUTISSIMAE

*193 primulina Col N.E. Nepal

194 malacoides 'F1 Paradiso

1989[D35](5)

Mixed Colors'

H1989[D12](10)

Latvijai' [B6](10)

196 malacoides 'Pasaka'

197 malacoides 'White'

[B6](15)

[B6](15)

195 malacoides 'Linkejiman

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SECTION MONOCARPICAE

SECTION IULIA

atroviolacea [B6](10)

[C1](15)

[D21](10)

[B18](10)

*190 denticulata var

Colors' [U](15)

178 denticulata (var cachemiriana) [B9](25)179 denticulata (var

cashemeriana) [B20](25)

cashmiriana) [C2](25)

- *198 x malacoides [B6](6)
- 199 x malacoides 'Jadvyga' [B6](10)
- 200 x malacoides 'Lietuevaite' [B6](10)

SECTION MUSCARIOIDES

- 201 bellidifolia 1989[D1](15)
- 202 cernua and/or muscarioides Col 11,500ft Himalayas 10/4/88[D38](10)
- 203 concholoba [D14](10)
- 204 concholoba [D36](10)
- 205 concholoba 1989[D40](10) 206 muscarioides [B26](7) 207 vialii [B25](50) 208 vialii [B25](50) 209 vialii [B27](20) 210 vialii [B32](50) 211 vialii [B5](50) 212 vialii [B8](50) 213 vialii 1988[D11](50) 214 vialii 1989[D11](50) 215 vialii [D17](25) 216 vialii [D19](50) 217 vialii 1989[D40](50) 218 vialii [U](50)

SECTION OBCONICOLISTERI

219 obconica l987[B35](15) 220 obconica l987[D8](l5)

SECTION OREOPHLOMIS

- 221 luteola 1988[B36](6) 222 rosea [B10](15) 223 rosea [B11](15) 224 rosea [B6](15) 225 rosea [B7](10) 226 rosea [B8](15) 227 rosea [D17](15) 228 rosea O1989[D46](15) 229 rosea [U](15) 230 rosea 'Gigas' [B9](15) 231 rosea var grandiflora
 - [C2](15)

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SECTION PARRYI

- *232 angustifolia [C3](5) 233 parryi [C3](10) 234 parryi 1988[D17](10)
 - 235 parryi [D17](10)
 - 236 parryi 1988[D20](l0)
 - 237 parryi 'Large Form' Col
 - Nevada 1989[D1](10) *238 rusbvi [C3](5)
 - 239 rusbyi [U](5)

SECTION PETIOLARIS

- 240 calderiana [B28](5) *241 calderiana (strumosa)
- [D17](5)
- **242 tanneri [D17](5)
- 243 sonchifolia 1989[D40](5)
- 244 sonchifolia 'Chinese form' 1989[D40](5)

SECTION PRIMULA

- 245 elatior [B13](15)
- 246 elatior [B15](15)
- 247 elatior [B17](15)
- 248 elatior [B20](15)
- 249 elatior [B32](15) 250 elatior [B6](5)
- 251 elatior [D46](10)
- 252 elatior [U](15)
- 253 elatior (carpatica)
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- 256 elatior (poloninensis) [D17](10)
- 257 elatior (ssp carpatica) [B28](15)
- 258 elatior (var Tatrica) [B15](15)
- 259 elatior (var Tatrica) [D17](10)
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- 261 elatior Col
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262 elatior Col Mseno 7/14/89 [D46](10)

- 263 elatior Col Mts. Velka Fatra 8/10/89 Blatnice [D46](10)
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- 271 elatior ssp pallasii [B6](10)
- 272 elatior ssp pallasii [D17](10)
- 273 elatior ssp pallasii [U](10)
- 274 elatior (ssp. carpatica) Col Velka Fatra 9/15/89 [D46](10)
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- 296 veris ssp columnae [B10](10)
- 297 veris ssp columnae 1989[B31](10)
- 298 veris ssp macrocalyx [B12](10)
- 299 veris ssp macrocalyx [B27](10)
- 300 veris ssp macrocalyx [B30](10)
- 301 veris ssp macrocalyx [B31](10)
- 302 veris ssp macrocalyx [B6](10)
- 303 veris ssp macrocalyx [B9](10)
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- 305 veris ssp macrocalyx Col Uzbekistan, USSR [D17](10)
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- 307 vulgaris [B12](10)
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 \bigcirc

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- F.R.G. C2 P. Kohli & Co., Kashmir, India
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P. auricula Hybrid Double form. see Seed List.

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Our Treasurer submitted an incorrect address for inclusion in the 1990 Dues Reminder' that appeared in the Fall issue of the QUARTERLY. The address of the Treasurer is: 6620 N.W. 27th Ave., Hillsboro, Oregon, 97124.

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Dues of \$10 a year are payable Nov. 15. Membership includes four issues annually of the Quarterly, cultural chart and seed exchange privileges. Sustaining member \$50; Life membership, \$200; garden club affiliated societies, \$10 a year; library and horticultural societies, \$10 a year; second member in family, \$1 a year. Overseas members, \$10 a year; please send by international money order. Send dues to the treasurer.

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Back issues of Primroses are available. Order from the secretary.

Manuscripts for publication in the quarterly are solicited from members and other gardening experts, although there is no payment. Please send articles and photographs to the editor at 1236 Wendover Ave, Rosemont, PA 19010.

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