

# THE MEDIANITE

Volume 5 No. 1

January 1964

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## PRESIDENT'S PATCH

We are now starting a new year under a new system. As soon as arrangements can be worked out, the AIS will collect dues for this section and any other section that requests it. This action will be beneficial to all of us, individually and as societies; however, our membership expiration dates must be made to coincide with those of your AIS memberships. With this issue you will find your dues notice with an explanation of your membership committee's plan for effecting this transition. We hope you will all help to make it as smooth as possible.

The AIS did not act on our proposal asking for a three-level award setup for the SDB and BB classes. We felt that they were ready, but the Board is reluctant to interfere with the present awards. The British instituted third awards two years ago for irises other than tall bearded since they acknowledge that the probability of any other iris than a tall winning the Dykes is extremely remote.

As a section we are committed to the AIS awards and can take no action on our own. Since the AIS did not feel the time was ripe for our proposal, we know that in all justice they, themselves, must work out something for the other irises. The point is, when will this be resolved? We are already two years behind the BIS although our specialty hybridizers have been much more active than theirs particularly in the SDB and BB classes. Time is of concern to us. The temper of the times is for action now; the whole world is fed up with inaction when equitable solutions are possible. It would seem that pressure is required in this case.

There is one more point to be brought up. The MIS is organized to promote median irises. We want to encourage all phases of gardening with median irises, from commercial, public and private display gardens, hybridizers' and collectors' gardens, to gardeners' gardens using our irises as basic and valued hardy perennials. We can carry out these purposes effectively only if you let us know what you feel is needed, and we will give a fair hearing to any proposals even if they seem to be against present policy.



## PERSONNEL

"If iris breeders need instruction in one thing more than others, it is that the only method worth while is to aim at an objective deliberately, even if some generations away, and to keep pointed in that direction." Paul Howard Cook.

We don't have words to say what losing Paul Cook means to the iris world, or even to our small part of HIS iris world. We hope to be able to quote his own words to record something of the rare qualities he brought to communication with fellow plant breeders. We hope that you will share with us any significant information about median iris breeding from his letters to you.

The Van de Waters, who have served the Median Society in many ways, have gone off to Afghanistan for two years where both will teach. They will be missed, but we hope it proves as interesting an experience as it sounds to us stay-at-homes. They are taking iris plants and seeds.

It is with the greatest pleasure that we welcome our friend Rudolf Hanselmayer's German colleague, Eckard Berlin, who is undertaking to carry on Rudy's work in collecting and distributing the iris species. Eckard is a landscape architect in Biberach-Riss. Here are his descriptions of some of the species sent to his American friends this year:

"Piroschka": surely pumila. I have this from a visit to the botanical garden in Dobrozen (Hungary). It is the pumila with the greatest flower which I know and the most-growing in my garden even in this very wet and moist year; they had a rhizome as great as a median.

"Topa": in 1961 I was collecting irises in Roumania and there my companion from the Cluj Botanical Garden, Prof Topa who collected with me in the "Turdaschlucht" (canyon of Turda) found them in a hiding place between rocks. The leaves are greater than pumila and close

by there are growing many aphyllas; therefore I believed I had an aphylla but after flowering the next year in my garden they seemed to be pumila.

These two forms of pumila, or perhaps pumila hybrids, surely may be good for median-breeding. I have many seeds of both, with TB and with pumila.

Iris aphylla Cluj-1 and Cluj-2: collected in Turda-canyon 1961.

Iris pumila S-1, S-2, S-3, S-5, S-6, S-7: these are seedlings from pumila seed from Serbia, good growing in the manner of Piroshka. The seed I received from Dr Werckmeister.

Iris pumila Bu 1, Bu 3, Bu 4, Bu 5, Bu 7, Bu 8, Bu 15, Bu 18: these I have brought with me in 1960 from a trip to Hungary. The plants were collected near Budapest, in the mountains north of Budapest.

The list of pods set by Mr Berlin in 1963 is simply staggering...it covers 8 long type-written pages, and includes such astonishing items as timofejewii (tee'mo-fee-hev'ii) crossed one way or the other with I balkana, chamaeiris, reichenbachii, scariosa, furcata, binata, arenaria, illyrica, pallida and various named irises including Snow Flurry and Lady Mohr. Now, as we all know, there is many a slip...but with so many tries there are bound to be results of the sort to cause great excitement and interest in small iris circles.

Mr Berlin is a man of intense energy and enthusiasm, and as he travels in his search for new species forms and develops friendships with other enthusiasts, many behind the iron curtain, one thing is certain, that the entire iris world will be the better for his exuberance.

FUN WITH APHYLLA



Edwin A Rundlett, Staten Island, N Y

Maybe hardiness too, and even beauty. Who knows without trying? But there must be good reasons for getting out of the common groove of honored tall bearded x honored tall bearded. The severe winter of 1962-63 caused heavy losses in tall bearded iris plantings in many areas, both bloomstalks and plants. Some farsighted breeders are trying to turn these losses into gain by selecting their iris parents with greater care. Surely no iris or other plant can be a satisfactory garden subject if it cannot thrive under the weather likely to be experienced in that garden.

In the quest for hardiness, a study of the distribution of wild iris species is helpful. The maps in N. Leslie Cave's excellent book, "The Iris," shows this distribution at a glance. If there were nothing else in this book but the maps, it would still be worth its price.

Gardeners who prefer big irises to all others are in the majority. This fact, plus the strong urge to rush new varieties onto the market before testing in different climates, accounts for the trend toward winter tenderness. It is high time that this trend were reversed, but accomplishing it will not be easy.

As most tall bearded have 48 chromosomes per cell nucleus, and as their varieties mate best with other irises having a like number of chromosomes, the natural objective of farsighted breeders is to find species in cold climates having this chromosome composition. This is not difficult, and the Median Iris Society has made a strong effort to make them available to serious breeders. So has Dr Randolph.

Among the tall bearded 48's, cypriana, kashmiriana, mesopotamica and trojana have been much used; also the collected forms, Amas, Macrantha and Ricardi. Trojana and Amas are fairly hardy, being able to survive and flower in climate zones 4 and 5 under good culture. Ricardi, being a variant of mesopotamica, is expected to be winter-tender like it, and like cypriana and kashmiriana. Macrantha has not been grown by the writer. Iris croatica, and varbossania are less well known, but do offer some promise in this quest for hardiness in the tall bearded iris class.

But Iris aphylla, a 48 of the standard dwarf class, has the most northerly natural distribution of them all. It is found in the wild from Bohemia and Silesia through Hungary to southern Russia and the Caucasus, but not beyond the Volga River, and not in close proximity to the Mediterranean Sea.

The chief characteristics of I aphylla are its deciduousness, which will make it unpopular in warm climates, and its habit of branching that begins at ground level. The height of the plant

ranges from 8 to 15 inches. The spathes are green and usually flushed with purple. The flowers are not large and their parts are not broad. The flower color is predominantly red-purple or blue-purple, sometimes with the standards a bit lighter in color than the falls. The beards may be yellow or white, and frequently have blue tips.

Garden culture of *I aphylla* is easy and differs from culture of tall bearded cultivars chiefly in the possibility of closer spacing and in the ease of fall clean-up of the foliage. The fall deciduousness makes it highly important to do all transplanting soon after blooming season, otherwise rooting will not take place before the foliage dies, and winter heaving will result. Insecticide treatment is the same as for the tall. Increase is rapid. Seeds germinate readily under the same conditions as for tall.

The Heinig-Randolph article on chromosome pairing (page 51, AIS Bulletin 170) gave a wonderful lift in spirits to careful readers who are also careful iris breeders. Such people realize the great amount of painstaking effort involved in these studies which, to a large extent, were devoted to *Iris aphylla* and its hybrids with tall bearded cultivars. We are very grateful for the dispelling of widespread pessimism about the use of this species in breeding.

The inclusion in the report of extensive tests by Robert Schreiner was a happy thought. He showed that in the F<sub>2</sub> progenies of crosses between *aphylla* and tall bearded cultivars, much wanted recessive qualities such as *plicata* pattern, white flower color and tangerine beards do segregate out if enough seedlings are grown. The cultivars selected for the laboratory chromosome study were all tall bearded. It would be interesting and perhaps productive of some good garden irises to extend these studies by field work with median irises now in commerce.

Being a bit stubborn when folks say that a desirable objective cannot be reached (or only with extreme difficulty), the writer of this Medianite article promptly made a start to reach some desirable objectives, come what might. The following account is taken from notes made while being pulled in a dozen directions at once in the Rundlett garden in the spring of 1963. The reader will be left to interpret them for himself. If any encouragement is derived from them the effort of typing them up will have been well worthwhile.

Daily trips were made down each seedling row to note on paper the qualities of each seedling as it showed its colors to the world for the first time. Those that failed to bloom went to the public dump; this step, after the severe winter, being an improvement in the iris stud. This note-taking act caused much neglect in other directions, but proved so fascinating that it is recommended to others. A hard-covered school composition book is good enough. Sample:

Bed 14, Row 6, Allegiance X Ken 4 plants

a .....

.....

63-116-48 b ..... (63 means 1963 selection; 116 is the 116th selection; 48 chromosomes)

..... Two lines provided in advance to receive notes about each indi-

c ..... vidual seedling. If it is decided to number a seedling, the number

..... etc. is placed to the left of the description, and also entered in a diary.

Cross: G-305 X Hanselmayer aphylla G-1 white. The latter came originally from Frohnleiten Botanic Garden and might be a hybrid, Hanselmayer thought. G-305 was a pure white self 9 inches tall from (Matterhorn x Cretica) X ((Sylvia Murray x Sky Song) x April Morn)). Objective: the above cross was probably (40 x 40) X 48, and the objective was a median pure white, possibly with a blue beard.

Seedling a: 12 inch plant with 3 inch wide blooms almost pure white but with slight blue infusion and a slight yellow blush on hafts of falls. Blue beards with white tips to hairs. Has pollen. One branch and two terminals.

c: similar but no blue in beard.

b and d: no bloom.

Cross: E-316 X aphylla G-1 6 plants. E-316 was a Pinnacle of pumitall stature from (Snow Velvet x Sulina) X (Matterhorn x Cretica). Probably (40 x 40) X 48.

Objective: an *aphylla amoena* of Pinnacle type.

Seedling a: Slightly waved dull white; flaring falls and coned standards; greenish-yellow hafts; faint blue tips to beards; 2 branches, 2 terminals; 26 x 4 inches. Vigorous and upright.

c: Spreading falls; standards clean white and conical. Weak plant 20 x 4 1/4 inches, one branch, two terminals. Has pollen. Yellow hafts with fine gold veins.

e: Pure violet self with brown hafts on falls which are horizontal. Waved, conical standards; dusky-tipped beards; one branch, 2 terminals, 4 buds; 21 x 5 1/2 inches. Has pollen; 3 increases.

b, d and f: no bloom.

A second pod of the same cross yielded five plants, only one of which bloomed. This one was an upright, clean light yellow self except for a cream flush below the tip of its yellow beard. One branch and two terminals. Broad floral parts. 17 x 4 inches.

Cross: Coreop X aphylla Dark Violet - 6 plants. Coreop is a 1963 SDB introduction of Rundlett. Buttercup yellow. (Clear Sailing X Carpathia).

Seedling a: Violet self 10 inches tall. Whitish haft markings; one branch, two terminals; white-tipped orange beard. Has pollen. Three inch span; narrow hafts; flaring falls.

c: Straw color with brownish center; 11 inches; widely flaring falls; good substance. Has pollen; cupped standards; white-tipped yellow beard; gold haft veining.

d: Deep violet; 12 inches, 2 branches and 2 terminals; white reticulations. Beard has light blue tip. Has pollen.

e: Like seedling a, but with a rich blue beard and more floriferous. Metallic blue sheen. Best in row.

f: Dull white stands, flaring yellow falls; blue-tipped yellow beard; narrow hafts with brown veins. Has pollen.

g: Much like seedling (a) but a weak grower; nine inches tall.

h: Like (a) the best of the deep violets; least haft markings.

i: 15 inches tall; 1 branch, 2 terminals; the darkest blue-violet of any; deep blue beard. Has pollen. May grow taller.

j and k: almost indistinguishable from seedling (a).

Cross: Coreop X Hanselmayer species A-15 (purple "like a tall aphylla") - 9 plants.

Seedling a: Clean white standards; falls flushed yellow except for white at lower tips. Falls droop. Beard slightly blue at tips. No other sign of blue in the flowers. 11 x 3 1/4 inches. Has pollen.

b: Yellow self of good form and substance; two branches and two terminals; vigorous. Beard tipped with blue. Brown veins on haft. 13 x 3 1/4 inches.

c: Light lavender self with widely flaring falls and gold shading and veining at haft. Cupped standards; one branch and two terminals.

d: Cream standards, yellow falls with brown veining deep in. Dull blue beard. Falls tuck. 11 x 3 1/4 inches.

e: Light blue standards. Falls greenish-yellow with olive hafts. Crests blue with yellow tips.

f: Smoky-white with white-tipped beard. Slight yellow flush at hafts. Cupped standards.

i: Greenish-yellow self with brown veins on hafts.

Cross: Jaylet X Aphylla Hungary. Jaylet is a Rundlett SDB registration of 1959. Standards light blue, falls same with blue-violet flush at tip of beard on falls. (Sylvia Murray x Sky Song) X April Morn.

One seedling only: A blue infused white with blue beard. One branch and two terminals, 12 inches tall. Vigorous.

Cross: Coreop X Hanselmayer aphylla H-7 (a short lavender aphylla with violet flecks) - 2 plants.

Seedling a: A muddy greenish-yellow self with gray areas on both stands and falls. Narrow, veiny hafts. Vigorous.

b: Also 12 inches tall and similar, but a weaker plant.

Cross: Coreop X aphylla Dark Violet (a second pod) - 5 plants.

Seedling a: Much like aphylla DV. Hafts narrow with whitish markings. 11 inches tall.

b: A cute metallic brassy one 10 inches tall. Tailored. Good substance; gray

beard; two branches and two terminals.

c: Much like aphylla Dark Violet.

Cross: Coreop X aphylla polonica. One plant only. A 10 inch floppy yellow.

Cross: B-11 X aphylla Dark Violet - 3 plants.

Seedling a: Red-violet self; large blooms of good substance; waved, in-turned standards; flaring waved falls with some white reticulation at bases of hafts; 20 inches tall, vigorous. No pollen. Bloomed well in May. Rebloomed July 3 without special care. Why? Incidentally, B-11 is a tangerine bearded apricot self from Mary Ella X self), probably a 48. My objective was the introduction of recessive pinks and apricots into the aphylla "pot," to use Bee's expression. Some day I hope to get tangerine bearded whites out of this "pot." Mary Ella has the genes to produce them, already has done so without aphylla involvement. They should be hardy, too, and medians.

This rambling account must be drawn to a close, though it could be extended if tall bearded X aphyllas were included. Before signing off, word must be added that the small number of plants per cross that is being reported does not indicate poor germination, but rather trouble in the seedling beds. That has been corrected. Few crosses made this year. Too busy writing. Next year I hope to do more, and see what F2's will bring out of the aphylla "pot."

#### WESTERN MEDIAN IRIS TEST GARDEN REPORT

Carol Walters, Supervisor

The theme song for the WMITG this spring is going to be "Hey, Look Me Over!" We really grew here this past planting season, and we think we're going to have a lot to see. There were over 60 new varieties planted for test or display in 1963, with standard dwarfs and intermediates predominating, according to the originators' classifications. Ben Hager sent up all the coming introductions from Melrose Gardens and there are new named varieties from hybridizers such as Jack Goett, Adelaide Peterson, Wilma Greenlee and Bee Warburton. From Dr Randolph and Z G Benson came both their recent and current introductions. In addition to all this, the new planting includes varieties still under number from Ben Hager, Keith Keppel, Mrs Peterson, Mrs R A Rich, Bee Warburton and Alta Brown. Lots of things to look forward to in the bloom season just ahead.

A matter of special pride to us in the new planting department is a group of species irises sent by Dr Randolph in order that they may be available for use of hybridizers in this area. Their name tags read like an itinerary of Dr's collecting trips and we're fervently hoping this trial planting will prove to contain at least one clone of pumila which will not only tolerate our milder California winters, but bloom regularly and well. All the Medianites in the area join me in offering Dr Randolph a special "thank-you" for the opportunity to try these species in the Sacramento Valley.

It's time now to begin to plan a visit to the Median Test Garden this year. In an average season there are irises in bloom here from the end of February through the end of May, to say nothing of camellias, azaleas, roses and daylilies at other seasons. We're located at 830 Oak Lane, Rio Linda, Calif. That's north of Sacramento, and west of Hiway 40. If you're interested write for a map showing how to reach us from Hiway 40. Then if you're still lost, the phone is 991-4167 (area code 916). Judges, median-buffs and just-lookers, all of you come. The gate to the Western Median Iris Test Garden is always open.

#### MIS DISPLAY GARDEN, LOS ANGELES

Peg Dabagh, California

The MIS display garden at the Los Angeles State and County Arboretum is not only a living growing fact, but a thriving one!! Neither George Spalding, Director of the Arboretum, nor I can quite believe our eyes even yet when we see those 195 little things in and growing like mad.



We have what I think is an ideal spot... near but entirely separated from the Regional Test Garden and Southern California Demonstration Gardens, and also in the same area as George Stambach's Pacific Coast Natives Display Garden. This George Stambach and I feel is a very good thing as the natives bloom right along with the early medians, and both the judges and the public can visit them both at once.

The Arboretum is centrally located and has thousands of visitors all year around; also practically all the plant societies have their meetings out there, among them the Iris Society. There are flower shows of some sort practically every weekend, certainly every one during the spring which starts here in February. What's more, we have a little tram which runs on tours of every part of the Arboretum every half hour, all day, every day. Attention is called to which plants are blooming and the tram makes frequent stops so that people may get off.

Our garden has a large sign "Southern California Display Garden of the Median Iris Society" and another one saying that a list of sources for these irises is available at the Gate House. On the individual markers is not only the name of the iris but also that of the originator.

Many people asked about sending seedlings and I felt that they should go in the Regional Test Garden as did the local people. George Spalding is in charge of that and says he would be delighted to have them there, as would our RVP. Our Regional Awards chairman has promised that the medians will be included on the aril-natives tour and the judges' training meeting for the TBs and spurias which is held in that area of the Arboretum.

The garden has already got us TEN new members, and I am sure when they bloom and people see them we'll have quite a few more. Please do send us your things! There is no time of year here when we can't plant. September and October are usually fearfully hot for a week or so, but even then it's all right. The irises go direct to George Spalding, Los Angeles State and County Arboretum, 310 N Baldwin Ave, Arcadia, Calif. Please send instructions as to what disposition you wish for the increase: returned to you, used in landscaping in the three branches of the Arboretum, or sold at the regional auction in the summer... (when the exchange is in effect it will be simpler).

A PLEA FROM REGION 23!!!  Jean Yocum, Membership Representative

In April 1963 an Aril group in Albuquerque, New Mexico, staged an all-Aril show. The group is small and has no financing, but the members did all the work and financed the show out of their own pockets. Results were so gratifying that they plan a 1964 show and would like to add a median section. As Membership Representative for this Region I have been asked to help. The median section must, of course, enhance the Aril section which will be the large part of the show. Medians have been slow to become popular here; this is a chance for educating iris growers as well as show viewers. The future of medians in Region 23 will be bright if that section is well judged. In fact, it just MUST be well judged.

We have capable judges in other classes but we lack opportunity to observe enough medians to gain experience to do this job. This Aril group has no funds for traveling expenses for a judge from any distance. Just possibly, that last of April 1964 some experienced median judge might be traveling near Albuquerque and would donate time to further the cause of medians. A chance, yes; a chance that someone might be near, a chance for the Median Society to say once more "Well done," and a better chance for others to see and enjoy medians.

Mrs Ernest P Wilson, 316 Cardenas NE, Albuquerque, New Mexico will be show chairman.

Do I hold a world record? In October at our New Mexico Iris Society meeting, three people discussed three topics: dwarfs and medians (my job), unusual irises (Lillian Gould), and Arils (Howard Shockey). I could illustrate mine with the real thing. I was able to cut typical examples in each class from dwarfs right through the TBs. Who else, at ANY time of the year, could be lucky enough to have all types of irises blooming at one time?

I had height and bloom season charts from a previous talk, and with the stalks in suitable containers, I was able to switch them around to show how THIS x THIS equals THIS type of iris.

ALPHABETICAL LIST OF MEDIAN IRISES

With AIS Color Class Symbols... Interim Report Supplement, December 1963

Harry B Kuesel, New York

This year we are just publishing additions or corrections to the list of irises on pages 25 and 26 of the January 1963 Medianite. You can also add these to the color class listings on pages 8-11 of the same issue. Any further suggestions for changes, from the members, are always appreciated. We want to keep this up to date, and can only do so with your help.

STANDARD DWARF							
Variety	AIS color class						
Amaranth Gem	6F	Oriental Tan	20L	Coquina	4V	Another Gem	6L
Aqua Green	10	Pearl Shell	15	Crystal Mint	10L	Arctic Sun	6D
Arrangement	18D	Playmaker	10F	Dark Eden	26D	Bibelot	6D
Baby Snowflake	1T	Plum Cute	6D	Doll Type	4V	Bonnie Lassie	21D
Bingo	6D	Plum Dandy	6L	Drummer Boy	13	Border Frills	Y4W
Blonde Doll	16P	Pretty Pinafore	13	Elfin Erin	10P	Brown Crown	19R
Bouffant Baby	6L	Rickshaw	19R	Elfin Myst	1C	Debbie Ann	1C
Bright Beacon	8PL	Ruffled Imp	16P	Elfin Royale	8FD	Deep Lavender	8PL
Bronze Babe	20L	Sail Away	11L	Fairy Folk	1T	Doll Dress	16P
Congo Wine	26D	Serenity	6P	Fancy Caper	2V	Early Charmer	21P
Coreop	16D	Sky Torch	10P	Findelkind	16D	Fairy Frost	1C
Dark Spangles	8FD	Small Cloud	1W	Frosty Lemonade	18L	Folderol	18D
Eager Boy	19O	Small Sky	11L	Gadget	6F	Frosted Lime	16P
Emma Frances	26D	Snow Troll	4Y	Gaily Golden	16L	Glacier Bay	4B
Eye Shadow	8F	Speckled Sprite	2V	Green Envy	10	Hob Nob	4V
Fairy Frolic	11P	Spring Fairy	18L	Gypsy Flair	21D	Kathryn Weston	11P
Fairy Song	9	Sunny Heart	4Y	Indeed	19W	La Nina Rosa	21P
Flame Spot	19R	Tawny Tot	21P	Jay Kenneth	6D	Little Gremlin	2VD
Forest Light	4G	Velvet Caper	6D	Maroon Caper	6D	Little Kiowa	26D
Four Spot	19O	Velvalure	4	Paganite	6D	Little Lynn	21L
Green Lilt	4D	Whisperylla	11P	Pink Pride	21P	Little Sambo	6D
Just So	4G	INTERMEDIATE		Pink Reward	21P	Marcy Dee	10P
Lilli-Bicolor	4V	Arctic Blue	11F	Proper Lemon	16P	Robby	10D
Lilli-Brownstone	13	Arctic Dream	1T	Rocketeer	10O	Spring's Return	6D
Lilli-Violet	6F	Arctic Mystery	18L	Sand Flea	21D	Sweet Love	16P
Little Grackle	6D	Arctic Rose	26L	Saucy Flossie	10	Timmie Too	6F
Moonblaze	21D	Arctic Ruffles	11L	Small World	1W	MINIATURE TALL	
Moonspinner	19W	Arctic Wine	26D	Spot Ballet	19R	Buenita	21D
Orange Caper	16D	Back Talk	16L	Starfall	4Y	Limber Lassie	1W
		Blue Fragrance	10P	BORDER		Mockingbird	2V
		Chimera	4V	Alaloe	19W	Pixakeet	2V
		Chit Chat	4V	Alaskan Gold	16F		

YOUR EDITOR NOTES...

The interest recently shown in collections of iris species and hybrids by many institutions is very pleasing to iris specialists. After the New Jersey Show was held at Fairleigh-Dickinson University in New Jersey, Dot Dennis was asked for a species collection for educational purposes, and they were furnished from Edwin Rundlett's garden. The Arnold Arboretum asked your editor, and the University of Michigan asked Fitz Randolph for similar collections, to show something of the evolution of garden irises from the basic species. Fitz reports that he also sent collections of species to Berkeley, the Los Angeles Arboretum and the Fort Worth Botanical Garden, and adds that he is beginning to feel relieved that the species are now in the hands of a fair number of hybridizers and institutions that will make them available to additional persons with a serious interest in making use of them.

Many of our members have started experiments with irradiated seed, but we have never received any concrete report of results. The December, 1963, issue of Scientific American has an interesting article on this in the "Amateur Scientist" department. The author of this article is Thomas S Osborne, associate professor of plant genetics at the University of Tennessee. The editors recommend a booklet: Experiments with Radiation on Seeds, No 2, available from the US Atomic Energy Commission, Division of Technical Information Extension, Educational Materials Section, PO Box 62, Oak Ridge, Tenn. The issue of Scientific American will also be available through your Median Library.

Also available through your library, the two copies of the Royal Horticultural Society's Journal with the 1963 Masters Memorial Lecture on "Virus Diseases and Horticulture." Now, the word "virus" causes many irisarians to shy like skittish horses... or at any rate, their backbones visibly stiffen in revulsion. Nonetheless, we are all unfortunately familiar with the symptoms in irises which are ascribed to viruses, the mottling of foliage, streaking or flecking of flowers, and crinkling of petal edges, besides loss of vigor and sometimes even death of the plant. To quote: "Almost all bulbous and rhizomatous plants, especially narcissi, gladioli, lilies and irises are infected with several viruses"... and "Different varieties of plants differ in their resistance to infection with viruses, as well as in their tolerance when infected, and some varieties also show more resistance than others to infestation by the insect vectors"... "Plant breeders make use of such factors in trying to breed new varieties that are more resistant to viruses than the old, but very often all they can achieve is greater tolerance."

The Prodan paper is struggling along toward completion. It will be mimeographed except for the plates, which will be photo-offset, and it will be spiral bound for easy reference. We are hoping the plates can be reduced enough so some of them can ride double, but even then they will add enough to the publishing expense so that we must charge \$2.00 for a copy.

We would appreciate it very much if you would order in advance to give us some inkling of what the demand will be... it runs to 70-odd stencils and we don't want to have to run off another lot in a hurry! Please send orders to:

Publications Committee  
Donald I Tufts  
73 North St, Grafton, Mass.



#### NORTHWEST MEDIAN MEETING

Jean Witt and Alta Brown, Washington

On Saturday, November 9, 1963, Northwest Median fans and friends gathered at the clubhouse in the University of Washington Arboretum, Seattle, Washington, for our third annual fall meeting. Those attending included Fred and Jeannette Snyder, Virginia Montieth, Mary Fitzgerald, Ruth Hardy, Clara Peterson, Grace Carter, Frances Maloney, Leona Mahood, Grace Pederson, Hattie Hubbard, Herb and Margaret Parker, Richard Rosenfels, Rudolph and Eleanor Wraspir, Charles and Warrenne Carper, Orpha Salsman, Maxine Maynard, Marjorie Barnes, Cay Flagler, Harvey and Lena Simmons, Tom and Jenny Evans, Frances Smith, Herb and Dorothy Dickson, Alta Brown and Jean Witt.

The afternoon session began with a business meeting at which letters were read from Jack Goett and Keith Keppel, and various national and local problems were discussed. This was followed by an informal program consisting of a short report by each member on his current Median project or activities. New members and guests were allotted a like time for questions. This developed into a very interesting discussion on such subjects as how to store pollen, artificial lighting for seedlings, what to do about moss in seedbeds, how to grow Oncos, etc.

The potluck dinner was followed by the most interesting slide session we have had yet. Medianites across the country who rallied to our call for slides... Bob Schreiner, Earl Roberts, Adelaide Peterson, Jack Goett, Bee Warburton, Wilma Greenlee, Mary Louise Dunderman and Lee Eberhardt... would have been delighted at the enthusiastic response accorded their pictures. Northwest people who showed slides were Dick Rosenfels, Ruth Hardy, Leona Mahood, Herb Parker, Alta Brown and Jean Witt. Herb Parker had a most informative series of composite slides showing irises of various colors taken with three different types of color film under the same garden lighting conditions.

It was decided to meet again in the Arboretum clubhouse for the 1964 fall meeting, on a November Saturday chosen to avoid the football travel.

We want to thank all who contributed in any way to the success of this meeting and for the wonderful cooperation shown. We are especially grateful for the delicious food brought for the dinner, the many slides for the program, and for the seeds and plants contributed to the sale to help finance the meeting for next year.

NORTHEAST MEDIAN IRIS SOCIETY MEETING Doris Matzke, NY, Sec'y

I suppose it's strictly a point of view, but I know 33 people who thought the rainy November 9 in Syracuse, New York, was just about the nicest day on record. Once inside the lobby of the Hotel Syracuse, spirits soared right up to the sunshiny buzzing of that beehive - the second annual meeting of the Northeast Median Iris Society.

As the meeting probably had been in progress from the wee small hours of at least the preceding evening, I doubt anyone was bored, and at four o'clock all that lovely chit-chat and serious discussion had to recess for the necessary business meeting. Most of the business was strictly routine and disposed of accordingly. Two important items are worthy of special report. First, all incumbent officers were unanimously reelected. Second, it was decided that if a committee could be formed, the second annual Median Show would be attempted at Worcester County Horticultural Society's building at Worcester, Mass.

All matters of business being concluded, the meeting was adjourned at 5:30 PM. Every body scattered to do what Medianites do at odd moments between business and dinner.

I've often wondered, are Medianites as a group exceptionally unhungry, or are they just very glad to be together? The food was excellent, but I think food for thought made up seven or eight additional courses. Everyone seemed to be eating one bit and talking two all at the same time.

Waitresses seemed a trifle impatient, so the meeting reconvened in Parlor D to hear the afterdinner speeches. The one included on the menu was Prof Robert Steinen's talk on "The Hybridizer as Artist." I won't attempt to discuss that, but I doubt anyone who heard it has yet forgotten it, and anyone who didn't really missed something "right out of this world."

A surprise speech was made very simply by Harry Kuesel who presented a series of slides of the Warburton-originated irises to, of all people, Bee Warburton for winning the Cook-Douglas Award for two consecutive years. Everyone including Bee thought it was that "traveling award" and was waiting the outcome. Has anybody ever seen that award? It took some reassuring to convince Bee that the award was in earnest. The slides were later shown after the main speaker had finished.

Every meeting seems to end the same way, iris people looking at slides, and that's how I left everyone.

Those attending were: the hale and hearty northerners, Alberta and Bruce Richardson and Albert Ellis; our frontiersmen, Freeman Yendell and Mary Pat Engel; our gracious southerners, Charlotte Gantz, Kathryn Chambers, Harriet Segessemann, Zeh, Dorothy and Dale Dennis; the downeasterners, Bee Warburton, Don, JoAnne and Mary Tufts, and Jack Goett; our capitalist (Albany is the state Capitol!), Kay Heinig and guest Aletha Markuson; the islanders, Harry Kuesel, Peg Edwards, Bill Peck, Phyllis Zezelic, and Edwin and Mary Ella Rundlett; and the natives, Elston and Lucille Herrald, Esther and Bill McGarvey, Jane Hall, Clint Ziems representing the Central New York Iris Society in his office of vice-chairman, and Fred and Doris Matzke.

Every report should end at the end but this one seems to be an exception, so:

PS: Our self-appointed critic had nothing to criticize which speaks very well for the efforts of Elston Herrald and Harry Kuesel in arranging this meeting; and

PPS: Professor Steinen is more than just a little bit more interested in irises; and

PPS: a Thought of my own. . Rainy weather and irises; don't the little darlings and MOISTURE just go together naturally?

George Warner of Junction City, Kansas (one of ours, and Editor of the Region 18 Bulletin) has a wonderful project to promote median irises in his neck of the woods. He belongs to a downtown church and next door, on higher ground, is a mortuary. Between the two there is a retaining wall and one of the church walks runs along this, forming a planting strip approximately 40x2 feet. This struck George as an ideal place to display the good qualities and the beauty of median irises. He decided that the early bloom of standard dwarfs and intermediates would catch more eyes and serve the purpose best. He plans to use creeping phlox atop the wall, and, next to the walk, a tiny six inch hedging plant, all of which should really set off the beauty of our early darlings and win new friends for them. He is making nice, clear nameplates, too.

George is to be highly commended for this project... especially so because Uncle Sam has an unfeeling attitude as to what becomes of your iris garden when he decides to ship you off to Germany and George has had only two years to recoup his median forces. A space 2x40 feet represents a lot of median irises, and it also represents a lot of dedicated work and travel. I say "travel" advisedly as George is well over six feet tall and thus must do a lot of journeying "up and down" to set all these plants! Fortunately, he will travel light as he is spare, as well as tall!

This will be the only public iris planting in town and already George is planning to ask the City Dads for space at the Municipal Auditorium when this present project is completed! What dedication! What stamina! WHAT vertebrae!

There's an old expression we all use: "Let George do it"... and don't we wish we had more Georges like George Warner of Junction City, Kansas!

#### PRACTISE IN GARDEN JUDGING



Bonnie Dunbar, Indiana

Why don't you and some of your friends get together when the medians are coming into bloom and have informal "student trials" at judging these. You might use the simple x system in these field trials, by using 5x for excellent, and if you find something that has that extra umph use 5xx. It's really something when one can find a plant that rates this high a score. Then stick by your guns as to how it rates with you. Overall plant condition, increase, foliage, cleanliness, proportion in size ratio, bloom and many other points may be observed at this trial study. Then consult your scores for comparison purposes as to what each one thought best, or felt would be worthy of future look-see, or needed improvement by further breeding. The lower your opinion the fewer the x's. Each judge has his or her own personal way of evaluating and coming to a final decision. One judge should not pressure another to change his vote.

A good standard named variety that has all the attributes of a finished flower and is well known is a good standard to go by. However, bear in mind that all judges may not agree as to standards; a judge who is also a breeder may look at an iris with a slightly different viewpoint from that of the judge who raises topnotch irises and/or is an avid bench judge.

In the border class, Black Forest I've found to be most helpful for comparison and evaluating purposes within this class. I've always felt a special fondness for the miniature tall bearded iris Widget as a comparison guide for the MTBs. In studying this one you will find the plant habits of good proportions, the thin flexuous-zigzag stem (delicate in appearance, but O so sturdy), delicate spaced branching and tiny flowers in proportion to plant structure.

Next, in the intermediates, there could well be different schools of thought. However, bloom between the SDB and the tall is your first sign of a true intermediate. My choice would be one of the Greenlee introductions, either Blue Asterisk or First Lilac. Cloud Fluff - I have always felt that the flower was a tiny smidgen too large. Geddes Douglas' old 1001-A was nice in this class, with nicely proportioned white flowers, and I think it might have taken votes if named. Getting back to Blue Asterisk and First Lilac, either would be good for comparison and evaluating purposes in the intermediate section. Paul Cook's standard dwarf lilliput, Baria, would be foremost to meet with my approval as to use in comparing standard dwarfs.

For the miniature dwarfs, here are several you might wish to use: 1. Blue Frost, 2. Brownett, 3. Blue Doll, 4. Orchid Flare... in fact, there are a number within this class that I've always thought good comparison materials. Here one needs to keep in mind the floriferousness

of bloom. MDBs and SDBs can be showy and attractive in mound formation like low-growing mums. In two and three year clumps they are quite beautiful with the mound of blossoms, but not when they are so crowded as to be overly bunched or to damage each other.

Foliage should be in proportion to the plant. On branched stems such as MTBs, seven or more flowers would be considered good, and likewise in the border irises which bloom along with the tall bearded irises but lower in height with stocky stems. I like seven or more blooms to these also, although there are those that have taken awards with less. On the intermediates, there are from five but hardly ever more than seven buds.

This should be enough for students gathering for field trials. Just try to forget all you have heard or read as to someone's saying it's this or that; give your honest viewpoint without influence, then mark down your scores by simple method. . . x, 2x, 3x, 4x, 5x, 5xx - the lower the x's the less desirable the plant as a whole, and under 3x they are only worth pitching.

UNLESS a new break in species breeding. . one does look for these things also. What if Paul Cook had taken the dim view way back when he came up with the (reichenbachii X Shining Waters) seedling which was later registered as Progenitor?

BREEDING BORDER IRISES ~~██████████~~ Border Robin #1, Keith Keppel, Director

Ben Hager, Stockton, Calif: One thing I proved to myself this year was that Border Iris X Border Iris will certainly produce Border Irises. One seedling out of Bit o'Gold X Chocoleto (the only one, I haven't found BB germination to be exceptionally good) was straight TB in size and height. However, a cross of Robert Melrose X Chocoleto gave ONE seedling. . . almost nearer to the ideal in size than either parent although I have nothing to complain about in them.

Frenchi X a seedling of Bennett Jones' gave uniformly sized BBs some with magnificent branching. . . one had little round flaring falls and nice domed stands, and in a delicate shade of very pink pink. Of course it was only 10 inches tall, on a very well-branched stem a little thicker than a birthday candle. . .

A surprise came from a cross of Doll Festival (which gets bigger every year but still hasn't gone over 28 inches where I've seen it) back to a seedling of Doll Festival X Savage which was small but definitely not BB. As they bloomed this year, the whole cross was good BB size. I have saved several small things out of TB crosses, but think our future lies in crossing BBs and we've got a good enough selection now to go all out.

The prettiest BB in our garden this year was Robert Melrose, and so typically one. Jungle Shadows in a long row was still the most curiously beautiful, and good size.

Bennett Jones, Portland, Oregon: First, let me say that my idea of a border iris is a tall bearded iris reduced to the specifications with ALL parts in proportion. A 28 inch stalk, surrounded by tall wide foliage and supporting large flowers, doesn't fill the bill. Such irises are those most often found among the tall seedlings, though now and then a well-proportioned seedling will come along. We will always get some fine BBs through the tall, but that's a slow process.

To get the proportion that suits my taste in BBs, I have gone heavily into crosses of BB X BB. As I go along I discover certain plants that give me what I want. Frenchi gives the size and proportion, but not so far the color that would be acceptable. Color does improve, however, as I found this spring in the second generation. Lipstick crossed to tall will throw BBs and next spring I will see seedlings of Lipstick X BB. . . the plants are now quite a bit smaller than the tall seedlings. I flowered a few seedlings last spring from Frenchi X (Party Dress x Lipstick), real nice seedlings but for color, and even that shows promise.

I am using intermediates in border work and indications are that this will pay off. #437 was Polar Cap X Progenitor, which produced intermediates. . . this crossed to Whole Cloth gave several BBs, one of which was named Glacier Bay. #437 crossed to Kiss Me Kate was interesting for size and season. There were plants with stalks 15 inches high, some 26 inches and some up to 36 inches, most blooming with the early named tall. I used and kept the very small plants.

Glacier Bay X sib gave similar results in plant sizes, but somewhat later blooming habits, and the same held true of a cross of Glacier Bay X Whole Cloth. I pulled the tall bearded plants and the poor quality small seedlings, and just sat and stared at the remainder, some were that beautiful. All were amoenas, with falls varying from pale blue to rich blue-purple. I will continue to use intermediates with these next spring when I should flower about fifty plants each from crosses of Whole Cloth with Lilli-Bitone, Lilli-Bright and Lilli-Var. A friend in California sent me two amoena BB size plants from Hermit Thrush X Whole Cloth, which will also be incorporated into the lines.

In 1956 I used a BB seedling related to Frenchi with pollen from (Carpathia X tall pink). The seedlings were yellow intermediates. I saved one or two, finally using pollen from one onto Dawn Rose... the seedlings bloomed last spring, three of them. Two were yellow, one deep rose-pink about 12 inches high. Pollen from all three seedlings went onto small tall pinks such as Fair Luzon, Little Dolly and a couple of pink BB seedlings.

Crescent Deru, Ogden, Utah: I think Bennett has the answer to breeding Borders. It is a matter of making a discriminating selection of those having the refined qualities we want, and some like Lipstick, Queen's Lace, Party Dress, Rosedale, Happy Birthday, give them rather consistently. I notice that along with the small scale we sometimes have weaknesses. The more beautifully formed and heavily substanced flowers have heavy, clubby stalks. The dainty, slender, multiple branched types have thin, watery substance, and miserable form. I have one breeder for stalk and dainty size, and clean color, but can't improve the substance and form.

#### EXPERIMENTS WITH THE SMALLER IRISES

Gordon S Plough, Wenatchee, Wash.

My idea in working with the smaller irises originally was to work the dwarfs in with the tall to infuse more vigor into the tall. Also at the same time I wanted to see if the dwarf spot patterns and different colored beards could be worked into the tall. Of course, it is a slow process, but all the program is steadily going forward.

In 1961, Evelyn Boon, Phyllis Holtz and Keith Keppel all sent pollen of tall for use on the dwarfs. Also we refrigerated some of our dwarf pollen for use on the tall. We made 74 crosses with MDB, SDB, IB or BB on one or both sides.

Working with the small irises fills a gap. I have time then to make crosses. I find them fascinating subjects for hybridizing.

This group of '61 crosses bloomed in spring of '63. We had plicatas of every shape, size, height and color. Yellows were predominant in the other crosses. Yellow dwarfs crossed with pinks produced many all yellows and many yellows streaked and splashed with pink.

Saucy Flossie and its sibs produced many fascinating spot patterns (none with tall as yet). Sing Along with a SDB yellow amoena seedling gave several nice little yellow amoenas.

One strange thing showed. From a cross of Fire Chief (tall) X King o'the Hills (MDB) all seedlings bloomed MDB. Both parents were variegatas and the seedlings were likewise of the same red and yellow color pattern. If the pod parent had been the MDB, I would have thought a bee might have been there first, but the pod parent was a tall. All other crosses between tall and dwarf showed mostly intermediate in height.

Many new crosses using dwarfs will bloom in '64. We have seeds planted from the group that bloomed this year for the first time, crossed with both dwarfs and tall. There are two seeds from Pewee plants. This one is supposed to be close to sterile, but we got a pod on it... now if the seeds will germinate!

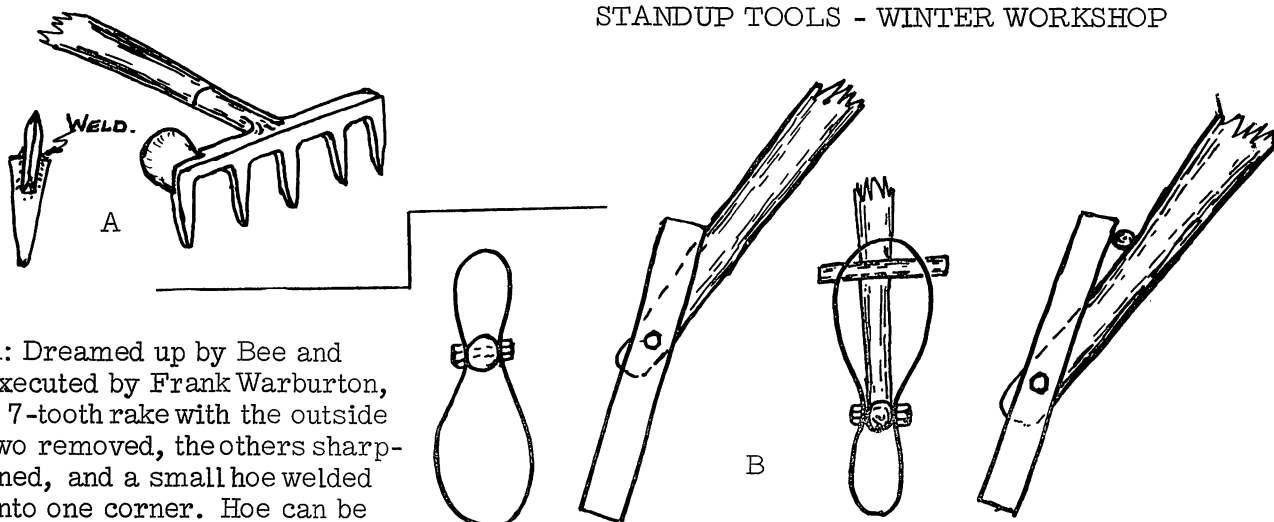
I hope anyone interested will visit the garden next April and see these small irises blooming. Then they can get a better idea of our "research experiments."

Re: 1963 BLOOM

Alene Shelton, Oklahoma City

I had some lilliput seedlings that were good: New Snow X April Morn. All but one were varying shades of light blue. The "show-off" was dark blue with wine spot. Everyone who saw it liked it.

STANDUP TOOLS - WINTER WORKSHOP



A: Dreamed up by Bee and executed by Frank Warburton, a 7-tooth rake with the outside two removed, the others sharpened, and a small hoe welded onto one corner. Hoe can be used without shifting hand grip.

B: courtesy Polly Bishop, a metal strap joined into a pivoting figure 8 for use of either the wide or the narrow end... needs a stop for using the small end but not for the large.

WARBURTON GARDEN, 1963

Harry B Kuesel

For several years Lee Eberhardt has been telling me how much he enjoyed his visits to the Warburton garden and how he could spend several days there at bloomtime. This year I found out why. The Sunday morning after the big Northeastern Median Show in Worcester the skies were clear and the sun was bright. Bee greeted us as we drove up with a mimeographed "guided tour". Everything was carefully labeled and what was eligible for what was nicely marked. Here is what I saw and liked...first the named varieties:

Easter Holiday (Durrance) SDB.. a ruffled yellow with a heavy purple beard.

Blueberry Muffins (Warburton) SDB.. flaring perfectly formed muffin yellow with a blue-purple beard.

Busy Child (Warburton) MDB.. a dark red-violet with a bright creamy white beard.

Sky Caper (Warburton) MDB.. sky blue self with white beard, this had made a big hit at the show the day before, too.

Delicate Air (Warburton) SDB.. a fine blue with pastel green overlay over half the falls; different and attractive.

Already and Red Dandy: two fine dark red selfs.

Blue Denim (Warburton) SDB.. good here as everywhere, a heavy substantanced light blue self.

Derring-Do (Warburton) SDB.. violet with dark red-violet markings on 2/3 of the fall. Unusual and a useful garden subject.

Truce (Warburton) SDB.. greenish yellow with pale blue beards, fine IF you like it.

Atomic Blue (Welch) MDB.. fine pale blue blue self.. a pumila.

Pastel Gem (A Brown) SDB.. delicate pale yellow with blue blend.

Centerpiece (Jones) SDB.. unusual chartreuse and mahogany bicolor.

Dark Fairy (Brown) SDB.. smooth plum-purple self, wide and flaring.

Knick Knack (Greenlee) MDB.. my first look at the first MDB plicata.

Wee Scot (Street) Aril.. a fine little dark aril median (SDB) that is distinct.

Nylon Loveliness (Doriot) SDB.. a yellow bitone with a white beard; made a nice clump. I liked:

Nylon Ruffles (Doriot) SDB.. a sister seedling in paler yellow with a good wide haft even better.

Among the seedlings I particularly noted Warburton 5E-300, a nice small yellow amoena; 13EF342, a flaring yellow with blue beard; 13EF346, a smooth dark violet approach to black, and a reverse blue amoena from the 10G series. These are all SDBs, and this was only a very small part of what there is to see here, but it would take several days to catch up with all the wonderful medians to be found in this garden.



MEDIAN REGISTRATIONS AND INTRODUCTIONS FOR 1963

Minnie Colquitt

STANDARD DWARF BEARDED

- ACOLYTE (J D Taylor '63) Sdlg E-96-12. SDB 10" M. V1, dark violet self including beard. Green Spot X Little Shadow. Wisley Trials '63.
- ADRIENNE TAYLOR (J D Taylor '63) Sdlg E-97-22. SDB 13" M. B3V, stands medium blue; falls same with violet flush, yellow beard. Green Spot X (Clear Sailing x Sulina) x sib. Wisley Trials '63.
- ALCHEMIST (J D Taylor '63) Sdlg E-109-25. SDB 11" M. B3V, stands pale blue, falls pale blue, violet spot. ((Clear Sailing x Sulina) x sib) X Green Spot. Wisley Trials '63.
- ARRANGEMENT (Goett '63) Sdlg 5D2. SDB 14" EE. YO3, stands light brown, falls dark brown, blue beard. Knotty Pine x Brassie. HC '63. Goett '63.
- BABY SNOWFLAKE (Peterson SDB '62) Peterson '63.
- BLUEBERRY MUFFINS (Warburton SDB '62) Old Brook Gardens, Raleigh Hills, '63.
- BLUE IVORY (Molly Price SDB '59) Cassebeer '63.
- BLONDE DOLL (Goett SDB '62) Goett '63.
- BOUFFANT BABY (Peterson SDB '62) Peterson '63.
- BRONZE BABE (Alta Brown SDB '62) Brown's '63.
- BROWN EYED KATIE (Molly Price SDB '61) Cassebeer '63.
- CASCADE SPRITE (Fothergill '63) Sdlg 9-77. SDB 11" E. B3, pale to mid-blue self. Green Spot X (Blue Ensign x Lake George).
- CIRCULETTE (Goett SDB '62). Goett '63.
- COREOP (Rundlett SDB '59) Rundlett '63.
- DARK CAPER (Warburton SDB '62) Warburton '63.
- DARK SPANGLES (Rundlett '63) Sdlg C-364. SDB 15" E. V3, stands red-violet, falls darker, near black, blue beard tipped yellow. Pigmy Gold X Black Taffeta.
- EAGER BOY (Zurbrigg '63) Sdlg 57-1. SDB 14" E. Y4R, stands golden yellow, falls yellow overlaid brown. Cook 1432 X Nashborough. Avonbank '63.
- ELISA BEE (Warburton SDB '62) Old Brook Gardens, Raleigh Hills, '63.
- FAIRY SONG (Silfies SDB '62) Bensalem '63.
- FI-LEE (Greenlee SDB '62) Greenlee '63.
- FLAME SPOT (Alta Brown '63) Sdlg M-272-3. SDB 12" E. Y4R, stands buttercup yellow, falls maroon-red, yellow border, orange beard. Ablaze X Technicolor.
- FOREST GLOW (J D Taylor '63) Sdlg C-3-4. SDB 14" M. W4R, stands white, faint blue lines; falls crimson, yellow hafts and edge. Wabash X Cretica. Orpington '63.
- GARNET LILLI (Peterson '63) Sdlg 60-3-A. SDB 13" E. V3D, stands reddish purple, falls red-purple, garnet red spot, purple beard. Small Wonder X Garnet Treasure.
- GOLDEN HEAD (Fothergill '63) Sdlg 1-10. SDB 11" E. Y4O, stands deep chrome yellow, falls brown, edged chrome yellow. (I. pumila x High Command) X Pogo.
- GREEN LILT (Alta Brown SDB '62) Brown's '63.
- GREEN METEOR (Motsch SDB '61) Raleigh Hills '63
- GREEN PHANTOM (Nacke '63) Sdlg 104-60-2. SDB 14" E. G3, stands leek green, falls leek green, large willow green spot, white beard tipped orange. Green Spot X Blue Denim.
- GREEN STITCHES (Grace Carlson '63) Sdlg D-63-3. SDB 11" E. Y2G, greenish lemon with green lines radiating from gold beard. Green Spot X self.
- INDEPMO (Street '63) Sdlg M-1-1. SDB 12" E. V1D, blackish purple self, orange beard. (Blazon X Fior del Mondo x Andromache).
- LADIES DELIGHT (Reneau '63) Sdlg 58-1. SDB 14" M. V1, wisteria self. China Maid X Fairy.
- LILLI-BICOLOR (Welch SDB '62) Welch '63.
- LILLI-VIOLET (Welch SDB '62) Welch '63.
- LITCHFIELD (Goett '63) Sdlg 9D2. SDB 13" EE. W2V, white plicata violet stitching. Dale Dennis X Knotty Pine.
- LITTLE GRACKLE (Rundlett '63) Sdlg E-314. SDB 12" E. V1D, dark purple self with lustre as on purple grackle. (Clear Sailing x Sulina) X (Clear Sailing x Sulina) (sister seedlings).
- LITTLE LANE (Plough '63) Sdlg 58-12-18. SDB 11" EM. W4Y, stands white, falls white with bright yellow ray pattern. Green Halo X Green Spot.

LITTLE PINKIE (Ross '63) SDB 14" E. YO5, apricot self, tangerine beard. Heritage X pumila seedling.

LITTLE SAPPHIRE (Price SDB '61) Cassebeer '63.

LITTLE WITCH (Molly Price '63) Sdlg O62-1. SDB 10" E. B5, stands deep lavender-blue, falls blended brown and blue-gray, dark violet beard tipped bronze. (April Morn x self) X Capitola.

MACUSHLA (Keefe '63) Sdlg 21-58-1. SDB 12" E. Y1, greenish yellow self, greenish spot under yellow beard. Mary McClellan X Spring Joy. HC '62.

MAMA MIA (Mahood '63) Sdlg 24-61. SDB 11" M. R3, stands red, falls red, very deep red spot, border same as stands, yellow beard. Pink Sensation X I. attica (Darby).

MANIKIN (Fothergill '63) Sdlg 0-10. SDB 11" E. V5, stands deep old-rose purple, falls same with tawny overlay. (I. pumila x Bryce Canyon) X (I. pumila x pink sdlg).

MARINKA (Dennis '63) Sdlg 6203. SDB 10" E. Y1, light greenish yellow self, bit of chocolate at hafts, light lavender beard. Lovelace X Welch H-513. HC '62.

MOON BLAZE (Peterson '63) Sdlg A-8-C. SDB 12" M. YO5, stands muted tan, falls tan, light blue blaze at haft, blue-gray beard. Olympic Torch X April Morn.

MOONSPINNER (Molly Price '63) Sdlg L63-9. SDB 10" E. W1Y, stands palest lemon changing to white, falls warm white. Primrose Bonnet X Welch M-549.

ORANGE CAPER (Warburton '63) Sdlg 15E361. SDB 11" E. Y1F, strong yellow self, orange beard. (Cloth of Gold x Welch H-503) X (Pigmy Gold x Zwanimir).

PAGAN MACE (Phillips '63) Sdlg C-313-1. SDB 10" E. V1D, magenta purple self, red spot on haft, brown beard tipped blue. Pagan Midget X unknown.

PATRETICA (Rundlett SDB '59) Rundlett '63.

PAT'S PAL (Rundlett '63) Sdlg C-345. SDB 15" E. Y2, stands yellow ground, flecked and feathered red-violet, falls creamy white, edges stippled and stitched red-violet. Patrice X Cretica.

PLAYMAKER (Peterson '63) Sdlg A-3-D. SDB 12" E. V5, stands gray edged tan, falls gray, wide violet spot, tan haft, violet to tan beard. Karachi X Welch H-503.

PLUM DANDY (Alta Brown SDB '62) Brown's '63.

PRETTY PINAFORE (Peterson SDB '62) Peterson '63.

RICKSHAW (Hager SDB '61) Melrose '63.

ROYAL THUMBPRINT (Stephenson, change of classification and height to SDB 10")

RUFFLED IMP (Alta Brown SDB '62) Brown's '63

SAIL AWAY (Peterson '63) Sdlg 60-38-A. SDB 13" E. B1M, medium blue, light blue beard, violet highlight on falls. Douglas 1592:(Snow Flurry x pumila) X (Billet Doux x pumila).

SEA FRET (J D Taylor '63) Sdlg E-97-14. SDB 15" M. W2G, stands white, falls white with faint green lines. Green Spot X (Clear Sailing x Sulina) x sib. Wisley Trials '63.

SKY TORCH (Peterson SDB '62) Peterson '63.

SMALL CLOUD (Muhlestein '63) Sdlg 174-A. SDB 12" E. W1, white self, pale lemon-yellow beard. Mary McClellan X (Fairy Flax x Mary Randall).

SMALL SKY (Muhlestein '63) Sdlg 174. SDB 12" E. B1, azure blue self, pale lemon-yellow beard. Mary McClellan X (Fairy Flax x Mary Randall).

SNOW TROLL (Goett '63) Sdlg 3D1. SDB 12" EE. W4O, stands white, greenish midrib, falls olive brown, white edges. Knotty Pine X Knotty Pine. Goett '63.

SOUTHERN WATERS (Street '63) Sdlg A-41-2. SDB 12" E. B1L, light blue self, Oxford blue halo, blue beard. Adornment X Sulina.

SPECKLED SPRITE (Molly Price '63) Sdlg L62-11. SDB 11" E. W2V, white plicata stitched red-violet, white beard tipped yellow. (Garden Flame x Welch H-503) X Red Rockette.

SPRING FAIRY (Alta Brown SDB '62) Brown's '63.

STATELY LADY (Mahood SDB '61) Raleigh Hills '63.

SUNNY HEART (Alta Brown '63) Sdlg M-393-8. SDB 12" E. W4Y, stands white, falls white yellow thumbprint, blue tipped beard. (Snow Flurry x Sea o'Blue) X unknown.

VELVET CAPER (Warburton '63) Sdlg 13E360. SDB 12" E. V3D, stands deep purple, falls very dark purple, purple beard. (Black Forest x yellow pumila sdlg) X Red Dandy.

WHISPERYLLA (Molly Price '63) Sdlg A59-1. SDB 14" EM. B1P, pale blue self, haft reticulations tiny. Blue Whisper X I. aphylla (Dark Violet).

INTERMEDIATE BEARDED

- ARABI TREASURE (Burnett IB '62) Melrose '63.  
 ARCTIC BLUE (Alta Brown '63) Sdlg M357-1. IB 18" E. B1, sky blue self, orange inside flower, light yellow beard. (Snow Elf x sib) X Whole Cloth.  
 ARCTIC DREAM (Alta Brown '63) Sdlg M357-4. IB 18" E. W1Y, pure white self, light yellow beard. (Snow Elf x sib) X Whole Cloth.  
 ARCTIC MYSTERY (Alta Brown '63) Sdlg M-149-17. IB 20" E. Y4W, stands light yellow, falls ivory white, deeper yellow haft, blue and orange beard. Snow Elf X pink TB sdlg.  
 ARTISTIC ROSE (Alta Brown '63) Sdlg M323-3. IB 20" EM. V1, rosy-mauve self, tan haft, orange beard. (Garnet Treasure x Pink Formal) X Cherokee Rose.  
 ARCTIC RUFFLE (Alta Brown IB '62) Brown's '63.  
 ARCTIC WINE (Alta Brown '63) Sdlg M348-8. IB 21" EM. R1D, deep wine red self, bronze beard. Plum Dandy X Huntsman.  
 BACK TALK (Hager '63) Sdlg 11I1292B. IB 26" E. Y3, stands medium yellow, falls shade deeper, bright orange beard. G. Douglas: (Monnie Colquitt x pumila violet) X Savage. Melrose '63.  
 BLUE FRAGRANCE (Earl Roberts IB '62) Roberts '63.  
 BLUKEETA (Greenlee IB '62) Greenlee '63.  
 BROWNIE TROUPE (Greenlee IB '62) Greenlee '63.  
 CHIT CHAT (Hager '63) Sdlg 11I1298E. IB 20" E. W2V, stands white bordered orchid-purple, falls white banded orchid-purple, white beard. Dale Dennis X Bloomin' Love.  
 COQUINA (Peterson '63) Sdlg A-18-A. IB 18" EM-M. O5V, stands light creamy pink, falls center of lavender and rose blend. Beard white to yellow. Brownie X Pink Sensation.  
 DARK EDEN (Alta Brown IB '62) Brown's '63.  
 DOLL TYPE (Hager '63) Sdlg 11I1298F. IB 20" E. W2V, stands white edged light violet, falls white edged with violet dots, brown at hafts, white beard tipped blue. Dale Dennis X Bloomin' Love.  
 DREAM MAKER (Earl Roberts '63) IB 19" EM. Y1P, pale lemon-cream self, white area around lemon beard. (Sharkskin x I. balkana Darby) X Cook 1155: (Progenitor x blue pumila).  
 DRUMMER BOY (Schreiners '63) Sdlg R-1240-A. IB 20" E. B3, stands pure blue, falls blue, sharp blue spot in center, yellow beard. (Jane Phillips x pumila sdlg) X Mrs Douglas Pattison. Schreiners '63.  
 EARLY CHEER (Randolph '49) Randolph '61.  
 ELFIN ANTIQUE (Earl Roberts '63) Sdlg 61R8. IB 17" EM. Y1D, antique gold, orange beard. Quechee X Cook 1155 (Progenitor x blue pumila).  
 ELFIN ERIN (Earl Roberts IB '62) Roberts '63.  
 ELFIN MYST (Earl Roberts '61) Roberts '63.  
 ELFIN PRINCESS (Earl Roberts '63) Sdlg 61R11. IB 18" EM. W1, snow white self including beard. Pierre Menard X Cook 1155: (Progenitor x blue pumila).  
 ELFIN ROYALE (Earl Roberts IB '61) Roberts '63.  
 ELFIN SMOKY (Earl Roberts '63) Sdlg 62R14. IB 17" EM. G3D, stands light smoky olive, falls deep greenish olive with brownish wash edged dark greenish yellow.  
 FANCY CAPER (Warburton '63) Sdlg 66EG-1. IB 22" E. W2V, fancy type plicata, pale to light purple, white ground. Castle Rock X sdlg 23E: (Love Affair x Cretica).  
 FROSTY LEMONADE (Peterson IB '62) Peterson '63.  
 GADGET (Hager '63) Sdlg 11I1285A. IB 18" E. V1R, medium red-purple self, blue beard. Florinda X Savage.  
 GAILY GOLDEN (Peterson '63) Sdlg A-33-A. IB, 18" Em-M. Y1, lemon gold self, lemon beard tipped white, white at haft. Pink TB X Brownie.  
 GALAXY (Greenlee IB '62) Greenlee '63.  
 GREEN HORN (Anderson '63) Sdlg PMH-5. IB 17" E. W4Y, stands white, falls greenish-mustard, greenish white horn purple tipped. (Pink Sensation x I. mellita) X (Wayfarer x Bearded Lady)  
 GYPSY FLAIR (Earl Roberts IB 161) Roberts '63.  
 INDEED (Hager '63) Sdlg 11I1298B. IB 21" E. Y4W, stands light lemon yellow, falls crystalline white, wire edge of lemon, white beard. Dale Dennis X Bloomin' Love.  
 IONA (Don Sturdevant '63) Sdlg 59-6-1. IB 24" EM. B1L, light blue self, light blue beard tipped

blue. Dancing Deb X Blue Flash.

IRRESISTIBLE (Zurbrigg '63) Sdlg 57-15. IB 16" M. Y3, stands bright ivory, falls lemon-yellow (Sound Money x Pink Formal) X Ablaze.

LILLIGOLDPUT (G. Douglas IB '62) Peterson '63.

LIMESPOT (Dangler '63) Sdlg B4-3. IB 22" E. Y4, stands pale creamy yellow, falls same, canary-yellow hafts shading to chartreuse, green spot, orange beard. Limelight X Green Spot.

MAROON CAPER (Warburton '63) Sdlg 180DG-1. IB 20" E. V3D, stands deep reddish-purple, falls deeper reddish purple. Ebony Echo X *L. aphylla* (Dark Violet).

OHIO DEB (Dangler '63) Sdlg B4-1. IB 22" E. Y1, lime to canary yellow self, greenish cast on falls, light yellow beard. Limelight X Green Spot.

ORIENTAL BABY (Guenther '63) Sdlg H-37-1. IB 17" EM. O4R, stands rosy beige, falls chrysanthemum crimson, edged rosy beige, yellow beard. High Command X E-40-2: F<sub>2</sub> of C-2-6 (Snow Flurry x Cook's pumila).

PAGANITE (Earl Roberts IB '60) Roberts '63.

PEPLUM (Peterson '63) Sdlg 60-74-A. IB 19" EM. V3, deep violet-purple self, dark purple spot at base of white beard, white glow around beard. Violet Harmony X Pagan Midget.

PINK PRIDE (Alta Brown '63) Sdlg M-188-6. IB 15" E. O1P, bright pink self, light yellow hafts, tangerine-red beard. (Memphis Belle x Carpathia) X pink sdlg involving Palomino, Heritage and others.

PINK REWARD (Peterson IB '62) Peterson '63.

PROPER LEMON (Warburton '63) Sdlg 93B402. IB 20" E. Y1, clear lemon yellow self. (Spindrift x Pink Cameo) X Mellita Vandee.

RATHE PRIMROSE (Fothergill '63) Sdlg P96. IB 18" E. Y1P, pale yellow flushed primrose, self. (Green Spot X (Cristabel x Rocket). Wisley Trials 1961.

ROCKETEER (Peterson '63) Sdlg A-120 A. IB 15" EM-ML. Y4, stands bright gold, falls brown edged gold, gold midrib and hafts, bright orange beard. Lilligoldput X Red Spot.

ROYAL EVENT (Peterson '63) Sdlg 60-74-E. IB 20" EM-M. V1D, red-purple self, violet-purple beard. Violet Harmony X Pagan Midget.

SAUCY FLOSSIE (Plough IB '62) Eden Road '63.

SNOW FLECK (Greenlee IB '62) Greenlee '63.

SPOT BALLET (Rosenfels '63) Sdlg 5911-3. IB 16" E. Y4O, stands medium yellow, falls brown, medium yellow border, orange beard. (Cherie x Green Spot) X unknown. Noyd's Garden '63.

SUMMER TABLETINE (Percy Brown IB '62) Brown's Everblooming Garden '63.

SUNBONNET TIME (Peterson IB '62) Peterson '63.

THE SULTAN (Egner '63) IB 15" E. V4, stands lilac-lavender, falls chartreuse, white beard. (Snow Flurry x pumila) X Welch K-505 pumila. Hite's Garden '63.

VANILLA ICE (Greenlee IB '62) Greenlee '63.

WHITCHEE (Greenlee IB '62) Greenlee '63.

WITCHES FLIGHT (Greenlee IB '62) Greenlee '63.

#### MINIATURE DWARF BEARDED (TABLE)

BLUE THREAD (Don Sturdevant '63). Sdlg 59-18-1. MTB 15" ML. W2B, stands white fused lilac tips, falls white, dark blue veining, yellow beard. Playboy X unknown Y1F.

BUENITA (Alice White '61) Melrose '63.

FIRST TIME (Welch '63) Sdlg W-301. MTB 18" L. Y2W, stands deep yellow, falls white ground plicata, bronze beard. (Widget x Daystar) X (yellow MTB x unknown) Welch '63.

LIMBER LASSIE (Rundlett '57) Rundlett '63.

#### BORDER BEARDED

ANGEL CHILD (Freudenburg BB '60) Freudenburg '61.

AVANTE GARDE (Don Sturdevant '63) Sdlg 59-16-1. BB 18" ML. Y4, stands gold, falls gold red thumbprint, gold beard. Bryce Canyon X Green Spot.

BITSY (Meitzler '63) Sdlg OKDSW-C6. BB 28" M. W1B, white self, tinted blue, fades to white, beards and hafts golden yellow. Sdlg (involving Ola Kala, Desert Song, Aladdin's Wish) X Chivalry.

BLUE FLUTE (Kuesel BB '61) Old Brook Gardens '63.  
 BLUE MILLER (Tom Brown '63) Sdlg L-7A5. BB 23" M. B1P, pale blue self, VERY deep blue beard. Exotic Blue X Sweet Alice Lee.  
 BLY COX (Ensminger '63) Sdlg 58-491. BB 24" ML-L. O1P, azalea pink self, chinese coral beard. Memories X Party Dress.  
 BOBBIE BEE (Wissbaum '63) Sdlg 60-5-5. BB 18" VL. Y5, light butterscotch self, white spot below yellow beard. Snow Flurry X June Meredith.  
 BORDER FRILLS (Alta Brown '63) Sdlg 58-60-5. BB 23" M. Y4W, stands light primrose yellow, falls near white, edged yellow lace, orange beard. Yellow Dresden X Green Quest.  
 BORDER QUEEN (Vallette BB '59) Vallette '62.  
 BRONZE BANTAM (LeGron '63) Sdlg 58-1. BB 22" M. YO5, light bronze self. Bronze Symphony X Argus Pheasant.  
 BROWN CROWN (Welch '62) Welch '63.  
 BUG'S EAR (J M Gibson '63) Sdlg 125-7LFA. BB 18" M. O1P, peach pink self. Sdlg 59-5 X Pink Crinkles.  
 CASCADE RIPPLES (Vallette BB '60) Tell's '63.  
 CLANCY (L Roach '63) Sdlg 59-20A. BB 22" M. G1, pod green self, uranium green blush at haft, blue-tipped self beard. (((Snow Flurry x Appointee) x Green Pastures) x Ballerina))) X Murray's sib to Bowling Green. HC '63.  
 DEEP LAVENDER (Welch '62) Welch '63.  
 FAIRY FROST (Sundt BB '59) Tell's '63.  
 FLEUR DE LIS (Freudenburg BB '62) Freudenburg '63.  
 FOLDEROL (Hager '63) Sdlg 11BB. BB 22" M. Y5, pale amber-yellow bordered cream, pale orchid blaze, deep yellow beard. Chocoleto X Robert Melrose.  
 FRONT AND CENTER (Bellagamba '63) Sdlg 3458a. BB 25" M. Y1, lemon self, no markings. (Tiffany x Elsa Sass) X Bazaar.  
 GARNET WINGS (Quist '63) Sdlg 3-2. BB 20" M. R1D, garnet self, brown beard. Ebony Echo X Huntsman.  
 GLACIER BAY (Jones '62) Raleigh Hills '63.  
 GREEN FLARE (Vallette '63) BB 28" EM-L. Y5, stands greenish-ivory, falls same washed and lightly veined chartreuse, chartreuse crests. Two sdlg's both F<sub>2</sub> from plicata/pink crosses.  
 GWENDA (Hansford '63) Sdlg A2-1. BB 20" M. V1D, black-purple self. Black Taffeta X Whole Cloth.  
 HOB NOB (Hutchings '63) Sdlg 57-60. BB 22" ML. W4V, stands white, falls rich purple bordered white. Cherry Falls X Bright Hour. Melrose '63.  
 INDIAN DANCER (M&L Crawford '63) BB 24" E. OY5D, medium brown self, small white blaze at yellow beard, deeper brown veins at haft. Char-Maize X Cloth of Gold.  
 KING OF HEARTS (Tuller '63) Sdlg 17x-86F. BB 27" ML. Six-bearded flat type. R5, rose copper blend, lilac flush, styles yellow & copper, lemon beard. Rhythm X sdlg 3F (6-bearded).  
 LA NINA ROSA (Sundt BB '59) Tell '63.  
 LIGHT OPERA (Peterson '63) Sdlg 60-33-A. BB 27" EM-L. Y4, stands pale golden buff, falls white edged golden buff, bright yellow beard. Yellow Dresden X unknown  
 LILLIAN MOWBRAY (Sturm '63) Sdlg O-55-1. BB 27" M. W1Y, stands white, faint yellow ground, falls white, yellow patch at base. Cliffs of Dover X Sespe.  
 LITTLE DICKENS (Freudenburg BB '60) Freudenburg 1961.  
 LITTLE MARK (Quadros '63) Sdlg 52-25A. BB 20" M. V2, stands mulberry and brown blend, falls mulberry border, white ground, stripe down center. Sib to Royal Band X Minnie Colquitt.  
 LITTLE SAMBO (Reynolds BB '60) Mission Bell '63.  
 LORI JEAN (Wissbaum '63) Sdlg 60-7-3. BB 26" L. Y5, stands amber yellow, falls creamy blend edged amber yellow, methyl violet blush below yellow beard. (Snow Flurry x Tompkins' pink seedling) X Because.  
 MARCY DEE (Muhlestein '63) Sdlg 57-68-D. BB 24" ML. YO5V, blend of pale iridescent peach apricot and orchid. Cream and Tangerine X Rosedale. Tell '63.  
 MAYAN TREASURE (Silfies BB '62) Bensalem '63.  
 ORCHIDS AND SNOW (Vallette '63) BB 26" EM-ML. V4, stands blue-white, falls deep orchid. Patience X Nelson Brown amoena sdlg (from 40 chr. Reichenbachii on Aline).  
 PINKTEEN (Quist '63) Sdlg 88A-1. BB 18" EM-L. O1P, shell pink self, yellow at hafts,

orange-pink beard.  
 PIN MONEY (Berndt '63) Sdlg 524. BB 24" L. V3, stands light lavender, falls lavender. Lav-  
 endula X Bon Voyage.  
 ROBBY (Hamblen BB '62) Mission Bell '63.  
 ROYAL REGALIA (Vallette BB '60) Vallette '62.  
 RUFFLED HARMONY (Freudenburg BB '62) Freudenburg '63.  
 SANDY JEAN (Bakke-Messer BB '62) Foss Gard. '63.  
 SEVEN ELEVEN (Cassebeer '63) Sdlg 711. BB 27" EM. V1D, blue-black self. Black Diamond  
 X Mayerling.  
 SHY LASSIE (Silfies BB '62) Bensalem '63.  
 SMALL TALK (Sexton BB '62) Sexton '63.  
 SPRING'S RETURN (Z G Benson BB '62) Z G Benson '63.  
 SWEET LOVE (Schmelzer BB '62) Schmelzer '63.  
 TRUE ROSE (Fothergill '63) Sdlg 9-28. BB 26" E-M. O5, stands peach to Persian rose, falls  
 rose pink to Persian pink at edges, hafts saffron yellow. Benton Cordelia X Annette.  
 TULE SHADOWS (Fail '63) Sdlg 03-19. BB 28" M. Y5, stands creamy buff, falls orchid-cream-  
 buff blend. (Snow Flurry x Green Pastures) X Lula Marguerite.  
 WEWANTA (Hatfield '63) Sdlg GB-59-2. BB 28" EML. W2V, white plicata widely bordered  
 lilac. Blue Shimmer X unknown.  
 WHITE DOT (Dora Wall '63) Sdlg 57-5a. BB 18" EM. W1, white self. Snow Flurry x (Spanish  
 Peaks x Loomis sdlg) X (Snow Flurry x (Spanish Peaks x Daybreak)) x blue sdlg. HC '63.  
 WHITE SAUCER (Vallette BB '62) Rainbow Gard. '63.

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JACK GOETT'S GARDEN as reported in

Region I's Bulletin: NEMIS Garden Tour, by Elston Herrald, Baldswinville, N Y

Jack has had truly remarkable success in hybridizing standard dwarf irises. The first one I remember was the interesting brown bitone, Knotty Pine, which was blooming in great profusion on this Sunday afternoon, May 19. This year he has introduced a fine royal purple plicata on white background, Circlette. This I must have, because it is such a fine addition in its color class and because I never have enough bright plics anyway. It was growing and blooming lustily in the seedling bed surrounded by at least a half dozen sister seedlings in the same color class in shades of orchid, lavender and purple. I also saw two good yellow plics, one on ivory background and one with lavender (4D2).

Elsewhere in the beds of seedlings we saw the following clones which deserve special consideration: 3E1, a reverse Whole Cloth which we jokingly called "Bottoms Up"; 5D2, a brown bitone which was a center of attraction in the show and in the garden and for which the name Arrangement has been requested; 8D1 and 8D5, both interesting bitones of light pearly lavender with white beards; 7E1, a combination of clear lemonade standards and yellow falls, white tipped yellow beard.

Re: CZECH PUMILAS

Adelaide Peterson, Brentwood, Tenn.

Four of the newer imported pumilas (Czechoslovakia) bloomed; two seemed outstanding. I shall refer to them as Czech Nos. 1, 2, 3, 4.

Czech #1: 4-5 inches. Light lemony yellow with brownish spot, white to yellow beard. Very ruffled stands and falls. Falls tuck under at extreme tips. Good strong grower. Nice.  
 Czech #2: Blue-violet, ruffled closed stands. Falls blue-violet with red-violet spot. Beard white to yellow in heart. Tall upstanding plant.  
 Czech #3: Violet self. Not too good a grower. Form poorer. Falls narrowish. Only slight suggestion of spot pattern. Blue beard to gold. So tucked it looks like pictures of I attica.  
 Czech #4: White, flaring, no tuck. Horizontally flaring falls have light green-yellow area with brightest, cleanest grass-green lines extending from beard downward. White beard. Falls edged white. This one is a knockout.