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Spec

New Annual Flowers

1970 Annual Flower Varietal Trials

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Floriculture and Nursery Production

The 1970 annual flower varietal trials and the evaluation of flower entries for the All-America Selections are being conducted at the Flower Trial Gardens on the Virginia Polytechnic Institute and State University campus at Blacksburg.

The small seeded varieties were sown April 1 in metal flats containing a commercially prepared medium known as "Jiffy-Mix". The large seeded varieties were sown April 27 directly in 2-1/4" peat pots containing a steam sterilized medium of equal parts loam soil and peat moss.

After the seeds were sown, the flats were placed in a greenhouse at 70°F under a low pressure, intermittent mist system, set to mist for intervals of 8 seconds per minute from 8 a.m. to 5 p.m. As the seeds germinated, the containers were removed to a 60°F greenhouse. Seedlings of the small seeded varieties were transplanted after they developed the second set of true leaves into 2-1/4" peat pots, containing equal parts soil and peat moss. Seedlings of the large seeded varieties were rogued to allow only one plant per peat pot.

Starting May 22, 1970, the plants were transplanted to outside beds. These beds were treated on May 26 with 1 lb./A of trifluralin, and the trifluralin was immediately incorporated with a tractor drawn rototiller. Immediately after incorporation, the various annuals were set into the beds and irrigated. After all plants had been set and the soil had crusted, the area was treated with 7.5 lb./A of DCPA (10 lbs. of Dacthal 75 W/A). Thanks are extended to Dr. James S. Coartney, Department of Plant Pathology and Physiology, Virginia Tech, for his advice and help with weed control.

The weed control obtained by this program was excellent and very little hand labor was required to care for the beds. Spot spraying with Paraquat was done to edge the beds and to kill any weeds that did germinate. No injury to any of the flower varieties was observed.

The plot size for each variety of petunias, impatiens, and snapdragons was 6' x 7½', with 24 plants spaced at 1-1/2' intervals. Other annuals were planted in plots 6' x 6', with 15 plants spaced at the same intervals. The beds were irrigated as needed during the growing season.

Preliminary evaluations were made during the growing season with final measurements recorded August 24 and 27. This period was considered optimum for growth responses and esthetic characteristics for most varieties.

The varieties were evaluated by height and width, using an objective

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rating system. Width and height measurements in the tables represent averages in inches. In some instances, where the plants had grown together forming thick mats or carpets, the width was recorded as "massed".

The rating system was based on 1 to 5, with 1 a very poor rating and 5, excellent. Floriferous rating included: flower, color, size, number, and uniformity. N/A means not applicable, with respect to plants grown for their attractive foliage and not flowers. Growth habit included growth characteristics and uniformity of each plant size within a given varietal plot, since there was considerable variation in some varieties. The overall rating was given in an attempt to combine all factors of floriferous and other growth characteristics into one evaluation.

In all instances, the varieties evaluated were compared with similar varieties and types. Therefore, there may be other varieties not present here that would be better types than those represented.

Suggested Annual Flowers for 1971

The following varieties were outstanding for 1970:

AGERATUM. Blue Heaven and Sky Chief had uniform growth and flowering.

ALYSSUM. Pastel Carpet (mixed colors) and Tiny Tim were outstanding in growth and flowering.

ASTER. Ideal Asters, mixed and the Perfection series of Improved Purple, Rose, and White were outstanding.

CLEOME. Helen Campbell, Rose Queen, and Special Rose Queen had attractive flowers and were vigorous growers.

CORAL FLOWER. Had glossy green foliage and excellent growth.

DAHLIA. Elite Dwarf Hybrids and Pompon had profusion of flowers and compact growth.

DIANTHUS. Queen of Hearts had uniform growth and attractive flowers.

DUSTY MILLER. Hoar Frost had attractive foliage and compact growth.

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HIBISCUS. Mascheuto, Southern Belle had excellent compact growth with very large flowers.

MARIGOLD. Burpee 7-Star Gold, Carmen (Matador), Gypsy Dancer, and Tina were superior varieties among all the marigold varieties grown.

PETUNIA. Outstanding f_1 Grandiflora petunias with large attractive blooms, usually ruffled or fringed, were Ace of Hearts, Candy Apple, Cherry Blossom, Flirt Improved, Peach Blossom, Pink Magic, Red Magic, Rose Perfection, and Velvet Queen.

The excellent f_1 Multiflora petunias had smaller but more flowers and were profuse bloomers all season, especially during the hottest part of the summer. These were Blue Lagoon, Blue Mist, Cover Girl, Dainty Lady, Plum Purple, Popeye, Prairie Moon, Purple Joy, Purple Plum, Purple Waters, Red Avalanche, Rose Joy, Royal Ruby, Salmon Coronet Improved, Snowdrift, Starkist, and White Bountiful.

Excellent varieties among the double petunias were Blue Danube, Cherry Tart, and Delight Mix.

SALVIA. Outstanding varieties with compact growth were Red Pillar and Royal Blue.

SNAPDRAGON. Excellent flower color and quantity among the varieties grown were Crescendo, Frontier Strains of Flame, White and Yellow, Little Darling, Promenade Bronze and Crimson, Rocket Bronze and Golden, Rocket Strains, Flame, Mixed, Orchid, and Red Rockets.

ZINNIA. Profuse bloomers with excellent flower color and foliage were Color Bash, Cupid Mixture, Persian Carpet, and Thumbelina.

<u>Variety</u>	<u>Height Inches</u>	<u>Width Inches</u>	<u>Flori- ferous</u>	<u>Growth Habit</u>	<u>Overall Rating</u>	<u>Seed Source</u>
<u>Ageratum</u>						
Blue Mink	10	12	2	2	2	GL
Blue Heaven	6	8	2	3	3	HA
Blue Pillow	8	13	3	3	3	GL
Fairy Pink	6	10	2	1	2	GE
Sky Chief	11	15	4	4	4	GL
Summer Snow	6	8	2	2	2	GO, GL
<u>Alyssum</u>						
Pastel Carpet, Mixed Colors	6	14	4	4	4	GR
Royal Carpet	3	10	2	2	2	GL
Tiny Tim	5	10	4	4	4	FL

<u>Variety</u>	<u>Height Inches</u>	<u>Width Inches</u>	<u>Flori- ferous</u>	<u>Growth Habit</u>	<u>Overall Rating</u>	<u>Seed Source</u>
<u>Aster</u>						
Color Carpet Mixture	5	7	2	2	1	GE
Dwarf Queen, Azure						
Blue	5	6	2	1	1	HA
Dwarf Queen, Deep						
Blue	7	7	2	2	2	HA
Dwarf Queen, Mixed						
Colors	6	6	2	1	1	HA
Dwarf Queen, Rose	8	7	2	2	2	HA
Ideal Asters, Mixed	20	12	4	4	4	BU
Old Glory, Mixed	6	6	2	1	1	BU
Perfection, Impr.						
Purple	15	11	3	3	3	BO, GL
Perfection, Impr.						
Rose	19	12	3	3	3	BO, GL
Perfection, Impr.						
White	18	10	3	3	3	BO, GL
Single Blue #57	12	6	4	3	3	GL
<u>Calendula</u>						
Orange Coronet	10	10	2	2	2	GE
<u>Candy Tuft</u>						
Fairy Mixed	8	11	2	2	2	GE
<u>Celosia</u>						
Cristata, Coral						
Garden Mixture	6	5	1	1	1	SK, GL
Plumosa, Extra						
Dwarf Meadow Glow	9	4	1	1	1	SK, GL
<u>Clarkia</u>						
Elegans Double Mix	15	8	2	2	2	GE
<u>Cleome</u>						
Helen Campbell	25	22	3	3	3	HA
Rose Queen	38	21	3	4	3	HA, GL
Special Rose Queen	32	10	3	3	3	BO
<u>Coral Flower</u>						
Coral Flower	27	24	5	5	5	GE

<u>Variety</u>	<u>Height Inches</u>	<u>Width Inches</u>	<u>Flori- ferous</u>	<u>Growth Habit</u>	<u>Overall Rating</u>	<u>Seed Source</u>
<u>Cornflower</u>						
Blue Diadem	28	16	3	3	3	GL
<u>Cosmos</u>						
Klondyke	17	13	3	3	3	BO, GL
Sensation Mixed	34	M	3	3	3	GL
<u>Dahlia</u>						
Elite Dwarf Hybrids	16	16	4	4	4	GE
Pompon Mix	21	14	4	3	3	GE
Unwins Mixed	21	17	2	2	2	GL
<u>Dianthus</u>						
Deltoides, Brilliancy 6		10	3	2	2	SK, GL
Chinensis, Mixed						
Colors	5	8	2	2	2	SK, GL
Queen of Hearts	11	10	3	3	3	GO, GL
<u>Dimorphotheca</u>						
Aurantiaea, Orange						
Glory	9	10	2	2	2	GE
<u>Dusty Miller</u>						
Hoar Frost	11	14	N/A	4	4	GE
<u>Flowering Kale</u>						
Flowering Kale	14	14	N/A	3	3	GE
<u>Flowering Cabbage</u>						
Flowering Cabbage	15	12	N/A	3	3	GE
<u>Geranium</u>						
Carefree Crimson	13	13	3	3	3	PA
Carefree White	13	10	3	3	3	PA
New Era, Blush						
White	11	13	3	3	3	HA
<u>Helichrysum</u>						
Dwarf Spangle	12	13	5	4	4	GL
Monstrosum Mixed	2	17	1	2	2	GL

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<u>Hibiscus</u>						
Mascheuto, Southern	34	15	5	5	5	SK, GL
<u>Hollyhock</u>						
Silver Puffs	26	12	4	4	4	GL
<u>Hypoestes</u>						
Polka Dot	19	15	5	5	5	PK
<u>Impatiens</u>						
Crazy Quilt	10	16	4	3	3	PK
Dwarf, Mixture	9	15	3	3	3	SK, GL
Elfin, Crimson	10	18	4	4	4	PA
Elfin, Fuchsia	13	18	3	3	3	PA
Elfin, Mixture	7	10	2	2	2	PA
Elfin, Orange	10	16	3	3	3	PA
Elfin, Pink	8	15	3	2	2	PA
Elfin, Rose	15	17	4	3	3	PA
Elfin, Salmon	12	16	3	3	3	PA
Elfin, Scarlet	8	14	2	2	2	PA
Shade Glow Series						
Carmine	10	17	3	3	3	HA
Mixed Colors	14	19	3	3	3	HA
Orange	12	22	4	4	4	HA
Pink	13	17	4	4	4	HA
Red	17	19	3	4	4	HA
Rose	15	19	3	4	4	HA
Salmon	11	19	3	3	3	HA
White	14	16	3	3	3	HA
Shady Lady, Mixed	11	18	3	3	3	PK
Special Dwarf						
Strain, Formula	10	17	3	2	2	GR
<u>Linaria</u>						
Fairy Bouquet	10	10	3	3	3	GE
<u>Marigold</u>						
Alaska	25	20	4	4	4	BU
Apollo	18	13	5	4	4	BO, GL
Bonita Mixed	17	16	4	4	4	GR
Brittany	16	16	4	4	4	GE
Burpee 7-Star Gold	17	17	5	5	5	BU
Carmen (Matador)	21	18	5	5	5	GR
Crackerjack	16	14	3	3	3	GL
Fiesta	19	19	4	4	4	GR
Golden Age	17	14	3	3	3	GL

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<u>Marigold (cont'd)</u>						
Golden Trumpet	19	22	2	2	2	GL
Golden Yellow	19	18	3	3	3	GR
Groovy	19	19	3	3	3	PK
Gypsy Dancer	18	17	5	5	5	HA
Hawaii	36	23	2	2	2	BU, GL
Lulu	29	23	2	2	2	GE
Man in the Moon	38	M	3	4	4	GE
Mission Giant						
Yellowstone	19	15	2	2	2	GE
Moonshot Yellow	23	18	3	3	3	HA
Patula Boy Scout	24	19	4	3	3	BO, GL
Pot O'Gold	17	13	1	1	1	GE
Red Brocade	17	16	3	3	3	BO, GL
Red Glow	11	11	3	2	2	BU
Senator Dirksen	26	18	2	4	3	BU
Sparky Mixed	15	16	3	3	3	BO, GL
Spry Hybrids	18	15	3	3	3	GE
Tina	14	18	5	5	5	GL
Yellow Brocade	19	18	4	4	4	GR
<u>Nicotiana</u>						
Daylight Mixed	23	23	4	4	4	GE
<u>Perilla</u>						
Nankinensis						
Crispa Compacta	26	16	N/A	4	4	GE
<u>Petunia (grandiflora)</u>						
Ace of Hearts	12	15	4	4	4	HA
Albatross	15	M	2	3	2	HA
Ambassador	12	13	4	3	3	SK, GL
Apollo	11	14	2	2	2	GO
Arcadia	10	12	4	2	3	SK, GL
Astro	12	M	1	2	2	GO
Ballerina	13	14	2	3	2	PA
Bicolor Mixture	15	13	2	3	3	SK, GL
Bingo Improved	17	M	2	3	3	PA
Black Magic	13	M	2	3	2	PA
Blue Charm	12	M	2	3	3	GR, SK, GL
Blue Ensign	14	M	2	2	2	SK, GL
Blue Magic	13	M	3	3	3	PA
Bravo	10	13	2	2	2	GO
Bridesmaid	14	14	3	3	3	GO
Cavalier	17	M	2	3	2	PA
Calypso	16	14	3	3	3	PA
Candy Apple	11	M	4	4	4	GO
Cherry Blossom	16	M	5	5	5	PA

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<u>Petunia (grandiflora) cont'd</u>						
Chiffon Cascade	14	M	2	2	2	PA, GL
Color Parade	13	M	1	3	1	SK, GL
Coral Cascade	11	10	1	1	1	PA
Coral Magic	12	M	2	2	2	PA
Crusader	15	M	3	3	3	PA
Domino	19	M	3	3	3	HA
Dreamland	16	M	3	3	3	SK
El Toro	11	11	2	1	2	PA
Flirt Impr.	15	M	4	4	4	SK
Fiesta	15	M	2	2	2	GO, GL
Flamboyant	10	12	2	1	2	PA
Gay Paris	14	14	3	2	2	GO
Glacier	12	14	2	2	2	GO
Happiness	16	16	2	2	2	GO
Harvest Moon	11	13	1	1	1	GO
Kandy Kane	12	12	2	2	2	HA
King of Diamonds	11	12	3	2	2	HA
Lavender Lady	15	M	3	3	3	PA
Malibu	11	M	4	3	3	GO
Mariner	12	M	4	3	3	GO
Maytime	13	M	2	2	2	PA
Peach Blossom	15	M	5	4	4	PA
Pink Cameo	12	M	5	4	4	HA
Pink Cloud	9	M	3	3	3	GO
Pink Magic	14	M	4	4	4	PA
Pink Snow	11	12	2	2	2	PA
Razzle-Dazzle	13	M	3	2	2	GO
Red Cascade	13	13	2	2	2	PA
Red Ensign	15	M	3	3	3	SK, GL
Red Magic	16	M	4	4	4	PA
Rose Cloud	14	M	3	2	2	GO
Rose Ensign	12	M	3	3	3	SK, GL
Rose Magic	17	M	3	2	2	PA
Rose Perfection	13	M	4	4	4	HA
Salmon Ensign	13	M	3	2	3	SK, GL
Scarlet Ensign	11	13	3	3	3	SK, GL
Scarlet Flame Impr.	14	15	3	3	3	SK
Scarlet Magic	13	12	2	2	2	PA
Sky Magic	14	M	3	3	3	PA
Snow Crystal	16	M	3	2	2	GR
Snow Magic	15	M	3	2	2	PA
Spectrum	15	13	1	2	1	GO
Spring Song Impr.	12	13	1	1	1	SK, GL
Sugar Daddy	16	M	3	2	2	PA
Sunburst	13	2	1	1	1	PA
Super White	11	12	1	1	1	GO
Tangerine	14	M	2	1	1	PA
Tango	10	12	2	2	2	PA
Tickled Pink	12	M	4	3	3	HA
Tiffany	9	M	3	3	3	HA

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<u>Petunia (grandiflora) cont'd</u>						
Velvet Queen	12	M	4	4	4	SK, GL
Warrior	11	M	3	3	3	HA
White Cascade	12	M	2	1	1	PA
White Ensign	14	M	2	2	2	SK, GL
White Frills	18	M	3	3	3	HA
White Magic	12	M	1	1	1	PA
White Sails	15	M	2	2	2	HA
Zig Zag	15	M	3	3	3	HA
<u>Petunia (multiflora)</u>						
Blue Dream	15	M	3	3	3	SK, GL
Blue Lagoon	15	M	5	5	5	HA
Blue Mist	16	M	4	4	4	HA
Comanche B	13	12	2	2	2	PA, GL
Coral Bells	13	13	2	2	2	PA
Cover Girl	15	M	4	4	4	HA
Dainty Lady	16	M	5	4	4	SK
Dwarf Formula Mixed	15	M	2	2	2	SK, GL
Festival	17	M	4	3	3	HA
Fire Cross	15	13	2	2	2	SK, GL
Gypsy	16	M	3	1	1	HA
Joy Mixture	12	M	2	1	1	GO
Kewpie	17	M	3	3	3	PA
Lollipop	16	M	4	3	3	PA
Meteor Improved	13	13	4	3	3	PA, GL
Orange Bells	17	M	3	3	3	PA
Paleface	15	M	4	3	3	PA
Phoenix	13	14	2	1	2	SK
Pink Bells	15	13	3	2	2	PA
Pink Bountiful	12	12	3	2	2	HA
Pink Joy	8	13	2	2	2	GO
Pink Profusion	14	M	4	3	3	SK, GL
Pinwheel	13	M	2	2	2	HA
Plum Blue	15	M	3	3	3	GO
Plum Pink	16	M	3	3	3	GO
Plum Pudding	16	M	4	3	3	GO
Plum Purple	16	M	5	4	4	GO
Polar Gap	18	M	3	3	3	SK, GL
Popeye	15	M	5	4	4	HA
Prairie Moon	14	M	5	4	4	HA
Purple Joy	12	M	5	5	5	GO
Purple Plum	11	M	5	5	5	PA
Purple Waters	14	M	4	4	4	HA
Red Avalanche	14	M	4	4	4	HA
Red Joy Impr.	11	13	3	2	2	GO
Red & White						
Empress	12	12	2	2	2	SK
Red Coronet Impr.	14	13	3	2	2	SK, GL
Rose Joy	12	11	5	4	4	GO
Royal Ruby	14	M	5	4	4	HA

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<u>Petunia</u> (multiflora) cont'd						
Salmon Coronet Impr.	10	M	4	4	4	SK, GL
Scarlet Gem Impr.	12	12	4	3	3	SK, GL
Snowdrift	14	M	4	4	4	HA
Starfire	12	12	3	2	2	GO
Starkist	10	10	5	4	4	HA
Star Joy	8	10	3	2	3	GO
Sugar Plum	11	14	4	3	3	PA
Sundance	9	10	3	2	2	HA
Victory	12	13	3	3	3	HA
White Avalanche	11	M	4	3	3	HA
White Bountiful	15	M	5	5	5	HA
White Joy	12	15	3	3	3	GO
<u>Petunia</u> (double grandiflora)						
Allegro	7	11	2	2	2	PA
Blue Danube	11	12	4	4	4	PA
Duet	13	12	3	3	3	PA, GL
Sonata	12	12	2	2	2	PA
Valentine	13	13	2	2	2	PA
<u>Petunia</u> (double multiflora)						
Bonanza Mixture	14	M	3	3	3	PA
Bridal Bouquet	12	M	3	3	3	GO
Cherry Tart	15	M	5	5	5	PA
Delight Mix	15	M	4	4	4	GO
Empress Mixed						
Colors	16	M	3	3	3	SK, GL
Fanfare	9	10	2	2	2	GO
Lavender Delight	14	14	3	3	3	GO
Pink Delight	10	12	3	3	3	GO
Red & White Delight	10	12	3	3	3	GO
Rose Empress	11	13	3	3	3	SK, GL
Rose & White						
Empress	12	12	3	3	3	SK, GL
Salmon Delight	14	13	3	2	2	GO
Salmon Empress	12	12	3	3	3	SK, GL
Scarlet Empress	11	13	2	2	2	SK, GL
Strawberry Tart	13	13	2	2	2	PA
White Delight	11	13	3	3	3	GO
White Empress	10	14	2	2	2	SK, GL
<u>Petunia</u> , (all double victorious)						
Blue Crown	8	10	1	1	1	SK, GL
Fantasy	8	10	3	3	3	SK, GL

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<u>Salvia</u>						
Baltzer's White	15	11	4	3	3	GE
Bonfire Elite	23	17	3	3	3	HA
Fireball	23	16	3	3	3	GE
Fleck #6	16	14	3	2	3	FL
Fusilier	15	10	2	2	2	HA
Grenadier	11	11	2	3	3	HA
Magic Fire	14	13	3	3	3	GE
Red Pillar	16	13	4	4	4	HA
Royal Blue	32	16	4	4	4	GE
<u>Salpiglossis</u>						
Emperor Mixed	9	8	1	1	1	GE
<u>Sanvitalia</u>						
Procumbens	10	M	4	4	4	GE
<u>Snapdragon</u>						
Crescendo	17	10	4	4	4	PK
Floral Cluster, Formula Mixed Colors	15	13	3	3	3	SK
Frontier Strains, Crimson	16	12	3	3	3	HA
Dainty Orchid	17	13	3	3	3	HA
Flame	11	12	4	4	4	HA
Mixed Colors	12	11	3	3	3	HA
Orange	21	9	3	3	3	HA
Rose	21	11	3	3	3	HA
White	22	10	4	4	4	HA
Yellow	26	10	4	4	4	HA
Little Darling	14	12	5	4	4	GO
Promenades, Bronze	15	9	4	4	4	PA
Crimson	16	8	4	4	4	PA
Lavender	14	11	2	4	3	PA
Mix	16	12	3	3	3	PA
Pink	13	11	2	3	3	PA
Red	15	11	3	2	2	PA
Rose	20	12	3	3	3	PA
Yellow	14	12	2	2	2	PA
White	17	13	3	3	3	PA
Rockets, Bronze	24	13	5	5	5	PA
Golden	29	13	5	5	5	PA
Orchid	22	14	3	3	3	PA
Pink	21	11	3	3	3	PA
White	19	12	3	3	3	PA

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<u>Snapdragon</u> (cont'd)						
Rocket Strains,						
Flame Rocket	23	11	4	4	4	HA
Mixed Colors	23	11	4	4	4	HA
Orange Rocket	19	11	3	3	3	HA
Orchid Rocket	24	13	4	4	4	HA
Red Rocket	22	12	5	5	5	HA
Rose Rocket	22	11	2	1	1	HA
Yellow Rocket	28	11	2	1	1	HA
White Rocket	28	12	3	4	3	HA
Harris' Dbl. Yellow	28	11	4	3	3	HA
Spring Flowering Mix	24	12	3	2	2	GE
<u>Solanum</u>						
Jubilee	8	10	4	3	3	SK, GL
Red Giant	10	12	2	4	3	SK, GL
<u>Strawberry</u>						
Baron Solemacher	6	8	1	1	1	GE
<u>Sunflower</u>						
Autumn Beauty	28	17	5	5	5	HA
<u>Sweet William</u>						
Red Empress	18	8	2	2	2	SK, GL
<u>Tahoka Daisy</u>						
Tahoka Daisy	18	16	4	4	4	GE
<u>Tithonia</u>						
Torch	40	M	3	3	3	GE
<u>Verbena</u>						
Fleck's Early Dwarf						
Upright Mixed	9	8	1	2	2	FL
Germania's Dwarf Mix	9	13	3	3	3	GE
Venosa	9	13	3	3	3	GE
<u>Vinca Rosea</u>						
Dwarf Little Blanche	9	13	3	3	3	SK, GL
Dwarf Little Delicata	6	6	2	2	2	SK, GL
Dwarf Little Mixture	6	8	3	3	3	SK, GL

<u>Variety</u>	<u>Height Inches</u>	<u>Width Inches</u>	<u>Flori- ferous</u>	<u>Growth Habit</u>	<u>Overall Rating</u>	<u>Seed Source</u>
<u>Zinnia</u>						
Color Bash	19	14	4	4	4	PK
Cupid Mixture	15	13	4	4	4	GE
Emperor Burpeeana	13	13	2	2	2	BU
Fantasy	17	15	2	2	2	GE
Fruit Bowl Mixed	18	15	2	2	2	BO, GL
Gay Pinwheel Mix	17	M	3	3	3	GE
Merry Go Round	20	14	1	1	1	GE
Miss Universe	20	14	1	1	1	GE
Peter Pan Pink	15	15	1	1	1	BO, GL
Peter Pan Plum	14	13	3	3	3	BO, GL
Persian Carpet	18	M	5	5	5	GE
Plus X Cactus	18	15	1	1	1	GE
Springtime	15	15	1	1	1	BO, GL
Sunshine Mixed	15	13	2	2	2	BO, GL
Thumbelina	6	7	4	4	4	BO, GL

1970 A.A.S. FLOWER ENTRIES

		<u>Height Inches</u>	<u>Width Inches</u>	<u>Flori- ferous</u>	<u>Growth Habit</u>	<u>Overall Rating</u>
70f01	Snapdragon, Mixed	10	13	3	2	2
70f01C	Snapdragon, floral Carpet, Mixed	10	10	2	2	2
70f01C2	Snapdragon, Floral Cluster, Mixed	10	11	3	3	3
70f02	Snapdragon, Scarlet/White Throat	9	10	3	2	2
70f02C	Snapdragon, Floral Cluster Red/White Throat	11	12	3	4	4
70f03	Snapdragon, Orange	9	12	3	4	4
70f03C	Snapdragon, Floral Carpet, Bronze	8	10	2	1	1
70f03C2	Snapdragon, Floral Cluster, Bronze	12	12	3	4	4
70f04	Lot #1 Ornamental Gourd, Mixture	Colored, Attractive Plain, Pear Shaped Plain, Round				
70f04	Lot #2 Ornamental Gourd, Mixture					
70f04	Lot #3 Ornamental Gourd, Mixture					
70f05	Platycodon	10	8	4	4	4
70f05C	Platycodon, Dwarf Apoi	11	7	4	4	4
70f05C2	Platycodon, Species Nova	6	4	1	1	1
70f05C3	Platycodon, Early Flowering Blue	12	9	4	4	4
70f06	Phlox Mixed Annual	10	11	1	1	1
70f06C	Annual Phlox Globe Mixed	9	9	1	1	1

		<u>Height Inches</u>	<u>Width Inches</u>	<u>Flori- ferous</u>	<u>Growth Habit</u>	<u>Overall Rating</u>
70f07	Queen Anne's Lace	25	14	3	3	3
70f07C	Queen Anne's Lace, White	23	11	3	3	3
70f08	Petunia	13	13	4	4	4
70f08C	Petunia, Cherokee	18	M	4	4	4
70f09	Marigold	25	16	3	4	4
70f09C	Marigold, Gold Lady	23	15	3	4	4
70f09C2	Marigold, Moonshot	16	12	3	3	3
70f10	Marigold	27	17	2	2	2
70f10C	Marigold, Burpee Gold	26	17	4	3	3
70f10C2	Marigold, Hawaii	37	18	3	3	3
70f11	Geranium	17	12	2	1	1
70f11C	Geranium, Carefree Mixed	17	13	3	3	3
70f11C2	Geranium, New Era Mixed	18	12	2	2	2
70f12	Celosia Plumosa Mixed	12	6	3	3	3
70f12C	Celosia, Meadow Glow	7	4	1	1	1
70f13	Dianthus Chinensis	9	7	4	3	3
70f14	Vinca Rosea Procumbens	7	6	2	2	2
70f14C	Vinca Rosea Creeping Rose Carpet	6	12	3	3	3
70f15	Cosmos Bipinnatus	48	M	4	5	4
70f15C	Cosmos, Early Sensation	42	M	4	4	4
70f15C2	Cosmos, Radiance	40	M	3	2	3
70f16	Zinnia	28	17	5	5	5
70f16C	Zinnia, Bright Scarlet	29	17	3	3	3
70f17	Carnation	10	6	2	2	2
70f17C	Carnation, Frangrance Mixed	18	8	3	3	3
70f18	Zinnia	19	12	4	3	3
70f18C	Zinnia, Ice Cream	23	15	3	3	3
70f19	Zinnia, Pastel Mix	19	15	3	3	3
70f19C	Zinnia, Burpeeana Art Shades	23	11	4	4	4
70f19C2	Zinnia, Panachrome Mixed	21	15	3	3	3
70f20	Zinnia	14	13	2	2	2
70f20C	Zinnia, Peter Pan Pink	15	12	1	1	1
70f21	Zinnia	9	8	5	4	4
70f22	Eschscholtzia	15	12	2	2	2
70f22C	Eschscholtzia, Mission Bells	15	12	2	2	2

		<u>Height Inches</u>	<u>Width Inches</u>	<u>Flori- ferous</u>	<u>Growth Habit</u>	<u>Overall Rating</u>
70f23	Snapdragon	17	8	2	2	2
70f23C	Snapdragon, Tinkerbell	15	8	1	1	1
70f24	Snapdragon Mixed	8	5	1	1	1
70f24C	Snapdragon Mixed, Bright Butterflies	18	9	3	3	3
70f25	Geranium	12	10	1	1	1
70f25C	Geranium, Carefree Bright Pink	17	11	4	4	4
70f26	Geranium	13	9	4	4	4
70f27	Geranium	11	11	3	4	4
70f27C & 70f26C	Geranium, Carefree Scarlet	16	13	4	3	3
70f28	Petunia	9	13	3	2	2
70f28C	Petunia, Plum Purple	11	14	4	4	4
70f29	Cosmos	35	M	3	3	3
70f29C	Cosmos, Sensation Mixed	34	M	3	3	3
70f30	Salvia	11	8	1	1	1
70f30C	Salvia, America	10	8	1	1	1

1971 - A.A.S. - Final Check, Demonstration Only

Dianthus, Queen of Hearts	14	11	3	4	3
Hibiscus, Southern Bells	31	16	5	5	5
Hollyhock, Silver Puffs	28	14	5	5	5
Snapdragon, Little Darling	11	7	3	3	3
Zinnia, Peter Pan Pink	17	14	4	3	4
Zinnia, Peter Pan Plum	18	13	4	3	4

1970 - A.A.S. - Demonstration

Dianthus Chinensis, China Doll	9	10	4	4	4
Marigold, Bolero	14	15	5	5	5
Snapdragon, Madame Butterfly	13	9	2	2	2

1969 - A.A.S. - Demonstration

Zinnia, Cherry Buttons	20	17	5	4	4
Zinnia, Rose Future	22	18	3	3	3
Zinnia, Torch	27	15	4	3	3

1968 - A.A.S. - Demonstration

Marigold, First Lady	21	15	4	4	4
Marigold, Orange Jubilee	15	13	3	3	3
Verbena, Blaze	10	10	3	3	3
Zinnia, Wild Cherry	23	15	3	2	2

Other - A.A.S. Winners

Celosia Plumosa, Golden Triumph	14	9	2	2	2
Centaurea Cyanus, Snow Ball	12	5	2	2	2
Geranium, Carefree Bright Pink	14	13	3	4	4
Geranium, Carefree Scarlet	14	11	3	4	4
Geranium, Carefree Deep Salmon	16	13	4	4	4
Marigold, Golden Jubilee	12	16	4	3	3
Morning Glory, Early Call Rose	4	8	2	2	2

SOURCE OF SEEDS

AAS	-	<u>All-America Selections</u> , P.O. Box 1341, 4331 N. Front Street, Harrisburg, Pa. 17105.
BO	-	<u>Bodger Seeds, Ltd.</u> , Box 390, El Monte, California 91734.
BU	-	<u>W. Atlee Burpee Co.</u> , Philadelphia, Pennsylvania 19132.
FL	-	<u>Raymond A. Fleck Company</u> , Southampton, Pennsylvania.
GE	-	<u>Germania Seed Co.</u> , 5952 North Milwaukee Ave., Chicago, Illinois 60646.
GL	-	<u>Fred C. Gloeckner & Co., Inc.</u> , 15 East 26th St., New York, N.Y. 10010.
GO	-	<u>Goldsmith Seeds, Inc.</u> , P.O. Box 1347, Gilroy, California 95020.
GR	-	<u>H. G. German Seeds</u> , 130 Bank Street, Smethport, Pa. 16749.
HA	-	<u>Joseph Harris Co., Inc.</u> , Moreton Farm, Rochester, N.Y. 14624.
PA	-	<u>Pan-American Seed Co.</u> , Cortez, Florida.
PK	-	<u>Geo. W. Park Seed Co., Inc.</u> , Greenwood, South Carolina 29647.
SK	-	<u>T. Sakata & Co.</u> , 2, Kiribatake, Kanagawa-Ku, P.O. Box Kanagawa No. 11, Yokohama, Japan.

Trade and brand names are used only for the purpose of information and the Virginia Cooperative Extension Service does not guarantee nor warrant the standard of the product, nor does it imply approval of the product to the exclusion of others which may also be suitable.

KEYS TO PROPER USE OF PESTICIDES

1. Read the label on each pesticide container before each use. Follow instructions to the letter; heed all cautions and warnings, and note precautions about residues.
2. Keep pesticides in the containers in which you bought them. Put them where children or animals cannot get to them, preferably under lock and away from food, feed, seed, or other material that may become harmful if contaminated.
3. Dispose of empty containers in the manner specified on the label. If disposal instructions are not printed on the label, burn the containers where smoke will not be a hazard, or bury them at least 18" deep in a place where water supplies will not be contaminated.

SEE YOUR DOCTOR IF SYMPTOMS OF ILLNESS OCCUR DURING OR AFTER USE OF PESTICIDES.