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No. 48
Spec

New Annual Flowers

1969 Annual Flower Varietal Trials

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Floriculture and Nursery Production

The 1969 annual flower varietal trials and the evaluation of flower entries for the All-America Selections were conducted at the V.P.I. Trial Gardens on the Virginia Polytechnic Institute campus at Blacksburg.

The small seeded varieties were sown April 8th and 9th in metal flats containing a commercially prepared medium known as "Jiffy-Mix." The large seeded varieties were sown May 5th and 6th 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 26, 1969, the plants were transplanted to outside beds. These beds were treated on May 26 with 1 lb./acre 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. Two weeks later, after all plants had been set and the soil had crusted, the area was treated with 7.5 lb./acre of DCPA (10 lb. of Dacthal 75 W/A). On July 16 the area was retreated with an additional 7.5 lb./acre of DCPA. Thanks are extended to Dr. James S. Coartney, Department of Plant Pathology and Physiology, V.P.I., 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 was 6' x 3', with 15 plants spaced at 1-1/2' intervals. The beds were irrigated as needed during the growing season.

Preliminary evaluations were made during the growing season with final measurements recorded August 11th and 12th. 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 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 1970

The following varieties were outstanding for 1969:

AGERATUM. AG x 42 and AG x 60 had uniform growth and flowering.

ASTER. Dwarf Queen Mixed Colors was outstanding.

CELOSIA. Cristata Semi-Dwarf, Prairie Fire produced excellent flowers and growth.

CENTUREA. Polka Dot Blue had profusion of flowers.

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

DIANTHUS. China Doll had uniform growth and attractive flowers.

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

GERANIUM. Carefree Crimson, and New Era series of Blush White, Bright Red, Dark Red, Medium Salmon, Mixed Colors, and scarlet with White Eye were all vigorous growers with a profusion of bloom.

HELIANTHUS. Yellow Pygmy had dwarf growth habit with large showy, yellow flowers.

MARIGOLD. Brocade Mixed, Eliza, King Tut, and Orange Nugget were superior to all the marigold varieties grown.

PANSY. Fleck's Jumbo Mixed had exceptionally large flowers and good growth throughout the summer.

PETUNIA. The f, Grandiflora petunias have larger, somewhat more attractive blooms, usually ruffled or fringed. The outstanding Grandifloras were: Happiness, Pink Mascot, Pink Magic, Red Magic, Rose Beauty, and Velvet Queen.

The f, Multiflora petunias have smaller but earlier flowers and are profuse bloomers all season, especially during the hottest part of the summer. Excellent f, Multifloras were: Blue Lagoon, Lollipop and Experimental Violet.

SALVIA. Outstanding variety with compact growth and brilliant flower color was: Medium Tall Purple.

SNAPDRAGON. Floral cluster; formula Mixed Colors, and Yellow produced an abundance of flowers with excellent growth.

<u>Variety</u>	<u>Seed Source</u>	<u>Height In.</u>	<u>Width In.</u>	<u>Flori-ferous</u>	<u>Growth Habit</u>	<u>Overall Rating</u>
<u>Ageratum</u>						
AG x 42	HA	10	15	5	3	4
AG x 60	HA	10	16	5	4	4
Blue Beauty	GE	12	16	5	2	3
Capri	GE	13	15	4	2	3
<u>Alyssum</u>						
New Carpet of Snow	GR	6	13	3	3	3
<u>Amaranthus</u>						
Flaming Fountain	GL,SK	18	12	3	3	3
<u>Aster</u>						
Dwarf Queen Formula Mixed	BO	13	13	3	2	2
Dwarf Queen Mixed Colors	HA	13	15	4	3	3
Garden Beauty Mixed	GL	11	9	3	2	2
Giant Princess Glamour	GL	20	16	2	2	2
Giant Princess Lovely	GL	25	17	2	1	1
Princess Mixed #6	GL	27	13	3	2	2
Ray Type Coppery Red #13	GL	26	14	2	1	1
<u>Calendula</u>						
Golden Glow	GL	18	16	2	2	2
<u>Capsicum</u>						
Fiesta	SK	15	15	4	4	4
<u>Celosia</u>						
Cristata Nana Dwarf, Empress Reselected	SK	11	11	2	2	2
Cristata Semi-Dwarf, Prairie Fire	GL,SK	12	13	3	2	3
Plumosa Extra Dwarf, Meadow Glow	GL,SK	9	7	3	2	2
<u>Centayrea</u>						
Cyanus, Polka Dot Blue	GL	18	14	4	3	3
Cyanus, Snow Ball	GL,SK	11	11	3	2	2
<u>Cleome</u>						
Helen Campbell	HA	32	27	5	5	5
Rose Queen	HA	34	30	5	5	5

<u>Variety</u>	<u>Seed Source</u>	<u>Height In.</u>	<u>Width In.</u>	<u>Flori-ferous</u>	<u>Growth Habit</u>	<u>Overall Rating</u>
<u>Cotula</u>						
Barbata, Yellow Pin Cushion Plant	GR	5	20	2	2	2
<u>Dahlia</u>						
Border Jewels	BO, GL	18	16	3	3	3
<u>Delphinium</u>						
Connecticut Yankees	GL	22	7	1	1	1
<u>Dianthus</u>						
Chinensis, China Doll	GO	7	9	3	3	3
Chinensis, Persian Carpet	SK	4	6	1	1	1
Deltoides, Brilliance	SK	3	4	1	1	1
<u>Digitalis</u>						
Foxy	GE	19	12	3	3	3
<u>Dusty Miller</u>						
Hoar-Frost	GR	9	8	N/A	3	3
Silver Lace	GR	6	8	N/A	2	2
<u>Geranium</u>						
Carefree Bright Pink	PA	8	11	3	3	3
Carefree Crimson	PA	11	13	4	4	4
Carefree Deep Salmon	PA	12	13	3	3	3
Carefree Scarlet	PA	10	10	4	3	3
Carefree White	PA	12	12	3	3	3
New Era, Blush White	HA	14	12	4	4	4
New Era, Bright Red	HA	15	12	4	4	4
New Era, Coral	HA	14	12	4	3	3
New Era, Dark Red	HA	15	13	4	4	4
New Era, Medium Salmon	HA	14	14	4	4	4
New Era, Mixed Colors	HA	14	15	4	4	4
New Era, Scarlet	HA	18	13	4	3	3
New Era, Scarlet with White Eye	HA	16	10	4	3	4
Nittany Lion	GE	13	8	1	2	2

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<u>Gloriosa Daisy</u>						
Irish Eyes	BU	21	15	4	4	4
<u>Helianthus</u>						
Yellow Pygma	GE	34	24	5	5	5
<u>Impatiens</u>						
Elfin Salmon	PA	5	9	3	3	3
Elfin White	PA	6	9	3	3	3
Shade Glow Series, Mixed Colors	HA	5	8	3	3	3
<u>Hypoestes Sanguilenta</u>						
Polka Dot Plant	PA	15	16	N/A	4	4
<u>Lamb's Ear</u>						
Lamb's Ear	GR	7	9	N/A	4	4
<u>Marigold</u>						
Brocade Mixed	BO	17	20	5	5	5
Climax	BU	32	21	3	3	3
Dolly	GR	13	13	4	5	4
Eliza	GR	15	15	5	5	5
Empress	BU	22	20	3	4	3
First Lady	BU	22	18	4	4	4
Gay Ladies	BU	25	20	3	4	4
Gold Nuggett	BU	14	15	5	4	4
Golden Orange	GR	18	13	3	3	3
Groovy	PK	15	17	4	4	4
Hawaii	BU	34	19	2	3	3
King Tut	GR	14	18	5	5	5
Lemon Yellow	GR	19	19	3	4	4
May Flower Mixed	BO	24	18	3	3	3
Moonshot	BO	21	16	4	5	4
Moonshot Yellow	HA	18	16	4	5	4
Orange Flame	GR	11	14	3	4	3
Orange Nugget	BU	13	15	5	5	5
Red Glow	BU	14	21	3	3	3
Tina	GR	15	17	4	4	4
Yellow Nugget	BU	11	16	4	3	3
Valencia	GR	17	16	4	4	4

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<u>Matricaria</u>						
Selma-Tetra	GE	22	17	2	4	3
<u>Myosotes</u>						
Anne Marie Fisher	GE	4	4	N/A	1	1
Alpestrus, Marina	GE	5	9	N/A	2	2
<u>Nicotiana</u>						
Dream	GL	12	12	3	3	3
<u>Pansy</u>						
Azure Blue	GL	6	8	3	3	3
Cardinal Red Vl. 168	GL	7	6	3	3	3
Fleck's Jumbo Mixed	FL	9	11	4	4	4
Germania's Special Mix	GE	8	9	3	3	3
Raspberry Red Vl. 289	GL	6	6	3	3	3
Yellow Vl. 110	GL	7	7	4	3	3
<u>Petunia, Grandiflora</u>						
Ace of Hearts	HA	10	Massed	4	4	4
Albatross	HA	16	"	3	3	3
Astro	GL,GO	11	"	2	3	3
Ballerina	PA	9	"	3	3	3
Black Magic	PA	13	"	3	3	3
Blue Charm	SK	13	"	3	3	3
Blue Jeans	PA	15	"	4	4	4
Blue Mantle	SK	12	"	3	3	3
Buccaneer	HA	9	"	4	4	4
Calypso	PA	11	"	3	3	3
Candy Apple	GO	12	"	4	4	4
Cherry Blossom	PA	14	"	4	4	4
Color Parade	SK	8	"	2	2	2
Coral Cascade	PA	10	"	3	2	2
Coral Magic	PA	9	"	2	2	2
Domino	HA	16	"	4	3	4
El Toro	PA	11	"	3	3	3
Flamboyant	PA	13	"	3	3	3
Flame	PA	8	"	3	2	2
Grand Slam	HA	11	"	3	2	2
Happiness	GO	12	"	5	4	5
Lavender Lady	PA	11	"	3	3	3
Maytime	PA	9	"	3	3	3

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<u>Petunia, Grandiflora</u>						
King of Diamonds	HA	13	Massed	3	3	3
Orchid Cloud	GL,GO	11	"	2	2	2
Peach Blossom	PA	14	"	3	3	3
Pink Cameo	HA	15	"	4	4	4
Pink Cascade	PA	13	"	3	3	3
Pink Ensign	SK	11	"	4	3	3
Pink Mascot	SK	14	"	5	5	5
Pink Magic	PA	13	"	5	5	5
Pink Ripple	GR	14	"	3	3	3
Pink Snow	PA	10	"	2	2	2
Red Cascade	PA	9	"	2	2	2
Red Ensign	SK	10	"	4	4	4
Red Magic	PA	15	"	5	5	5
Rose Beauty	SK	12	"	5	5	5
Rose Cloud	GL,GO	11	"	4	4	4
Rose Ensign	GL,SK	12	"	4	3	3
Rose Magic	PA	14	"	3	3	3
Rose Perfection	HA	12	"	5	4	4
Rose Pink	SK	9	"	3	2	3
Roulette	HA	9	"	4	3	3
Salmon Ensign	SK	10	"	4	2	3
Scarlet #13	GL	13	"	4	3	3
Scarlet Ensign	SK	11	"	3	2	2
Scarlet Magic	PA	10	"	3	2	3
Scarlet & White	SK	10	"	3	2	2
Snow Cap Improved	SK	14	"	3	3	3
Snow Magic	PA	12	"	3	3	3
Spring Song Improved	SK	8	"	3	2	2
Sunburst	PA	10	"	3	2	2
Super White Improved	GL	11	"	2	2	2
Tangerine	PA	11	"	4	3	3
Tickled Pink	HA	7	"	4	2	2
Velvet Queen	SK	15	"	5	5	5
Warrior	HA	14	"	4	3	3
White Ensign	SK	10	"	3	3	3
White Magic	PA	11	"	4	4	4
White Sails	HA	14	"	3	3	3
Yellow #557	SK	11	"	3	2	2
Zig Zag	HA	12	"	5	4	4
<u>Petunia, Multiflora</u>						
Blue Dream	SK	15	Massed	4	4	4
Blue Lagoon	HA	17	"	5	5	5
Blue Mist	HA	15	"	4	4	4
Comanche W	PA	15	"	4	4	4
Coral Bells	PA	13	"	4	3	3
Cover Girl	HA	11	"	5	4	4

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<u>Petunia, Multiflora</u>						
Dwarf Formula Mixed	SK	12	Massed	4	4	4
Experimental Violet	BO	14	"	5	5	5
Festival	HA	17	"	5	4	4
Jetfire	HA	13	"	3	3	3
Lollipop	PA	16	"	5	5	5
Orange Bells	PA	16	"	5	4	4
Pink Bells	PA	13	"	5	4	4
Pink Bountiful	HA	17	"	4	3	4
Pink Foam	SK	17	"	4	4	4
Pinwheel	HA	17	"	3	3	3
Polar Cap	SK	22	"	4	3	3
Popeye	HA	18	"	4	3	3
Prairie Moon	HA	15	"	3	2	3
Purple Plum	PA	14	"	4	4	4
Purple Waters	HA	16	"	4	4	4
Red Avalanche	HA	19	"	4	4	4
Red Cap	HA	12	"	3	2	2
Red Coronet Improved	SK	15	"	4	4	4
Royal Ruby	HA	18	"	3	3	3
Salmon Coronet	SK	17	"	4	3	3
Scarlet Gem Improved	SK	18	"	3	3	3
Snowdrift	HA	20	"	4	2	3
Sugar Plum	PA	18	"	5	4	4
Starkist	HA	17	"	4	4	4
Sundance	HA	14	"	5	4	4
Victory	HA	15	"	3	3	3
White Avalanche	HA	15	"	3	2	2
White Bountiful	HA	18	"	4	3	3
<u>Petunia, Double Grandiflora</u>						
Blue Danube	PA	17	Massed	2	2	2
Sonate	PA	14	"	3	2	2
Valentine	PA	8	"	3	2	2
<u>Petunia, Double Multiflora</u>						
Bonanza Mixture	PA	11	"	3	2	2
Cherry Tart	PA	12	"	4	4	4
Red & White Empress	GL,SK	13	"	3	3	3
Rose Empress	GL,SK	16	"	4	4	4
Rose & White Empress	GL,SK	14	"	3	3	3
Salmon Delight	GL,GO	15	"	3	3	3
Scarlet Empress	GL,SK	15	"	4	4	4
Strawberry Tart	PA	13	"	3	3	3
White Delight Improved	GO	12	"	4	3	3

<u>Variety</u>	<u>Seed Source</u>	<u>Height In.</u>	<u>Width In.</u>	<u>Flori-ferous</u>	<u>Growth Habit</u>	<u>Overall Rating</u>
<u>Petunia, All Double Giant Victorious</u>						
Blue Crown	GL,SK	10	Massed	2	3	3
Fantasy	GL,SK	10	"	3	3	3
<u>Polygonum</u>						
Summer Carpet	GR	4	"	4	5	5
<u>Portulaca</u>						
German's All Double Mixed	GR	7	"	4	4	4
<u>Pyrethrum</u>						
Ptarmicaeflorum	BO	6	8	None	3	3
<u>Rudbeckia</u>						
Rosy Purple #88	GL	12	16	None	4	4
<u>Salvia</u>						
America 'B'	HA	26	20	4	4	4
America 'C'	HA	26	19	4	3	4
Blaze of Fire	GR	24	18	4	3	4
Bonfire 'B'	HA	26	19	3	3	3
Brilliancy	GL	20	14	3	3	3
Copper-Glow	GL	18	14	4	4	4
Fireworks	GR	10	13	None	4	4
Flarepath 'B'	HA	21	19	3	2	3
Fusilier	HA	21	16	3	3	3
Grenadier	HA	20	20	4	4	4
Medium Tall Purple	HA	24	21	5	5	5
Red Pillar 'B'	HA	19	18	5	4	4
Rocket 'B'	HA	23	21	3	3	3
Rocket 'C'	HA	24	18	4	4	4
Scarlet Pygmy 'B'	HA	17	17	4	5	4
St. John's Fire 'B'	HA	17	14	3	3	3
<u>Snapdragon</u>						
Cherry Pink	GL	13	10	4	3	3
Floral Cluster, Bronze	GL,SK	11	9	4	4	4
Floral Cluster, Carmine						
Rose	GL,SK	13	13	4	4	4
Floral Cluster, Crimson	GL,SK	12	12	3	4	4

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<u>Snapdragon</u>						
Floral Cluster, Formula Mixed Colors	GL,SK	12	10	5	5	5
Floral Cluster, Lavender	GL,SK	12	12	4	3	4
Floral Cluster, Orchid	GL,SK	11	12	3	4	4
Floral Cluster, Red with White Tube	GL,SK	12	11	3	3	3
Floral Cluster, Rose	GL,SK	11	11	4	4	4
Floral Cluster, Rosy Carmine	GL,SK	12	12	4	4	4
Floral Cluster, Rosy Pink	GL,SK	9	10	3	3	3
Floral Cluster, Scarlet	GL,SK	11	10	4	4	4
Floral Cluster, White	GL,SK	12	13	4	4	4
Floral Cluster, Yellow	GL,SK	12	15	5	5	5
Frontier Strain, Mixed Colors	SK	22	10	4	4	4
Frosty Rocket	PA	26	12	4	4	4
Harris' Double Yellow	HA	21	11	3	3	3
Madame Butterfly	GL,GO	18	10	4	4	4
Mauve Queen	GL	13	8	5	4	4
Little Duffer, Mixed Colors	HA	13	11	4	4	4
Promenade Bronze	PA	13	7	4	4	4
Promenade Rose	PA	16	8	4	4	4
Promenade White	PA	15	15	4	4	4
Promenade Yellow	PA	10	9	3	3	3
Red Bird	GL	12	6	3	3	3
Redstone Rocket	PA	13	6	2	2	2
Rocket White	PA	17	8	3	3	3
Rocket Strain, Mixed Colors	HA	18	10	3	3	3
Spring Giant	GO	22	8	3	3	3
Tetra Super	GL	20	8	3	3	3
<u>Solanum</u>						
Jubilee	SK	9	8	3	3	3
<u>Stock</u>						
Cascade Mix	GE	26	11	2	2	2
Deep Pink	GL	26	11	4	4	4
New Rose	GL	14	13	None	4	4
Pale Orchid	GL	13	12	None	4	4

<u>Variety</u>	<u>Seed Source</u>	<u>Height In.</u>	<u>Width In.</u>	<u>Flori-ferous</u>	<u>Growth Habit</u>	<u>Overall Rating</u>
<u>Verbena</u>						
German's Exhibition Mixture	GR	8	15	3	3	3
<u>Vinca Rosea</u>						
Dwarf, Little Blanche	GL,SK	13	14	3	3	3
Dwarf, Little Delicata	GL,SK	8	10	3	3	3
Dwarf, Little Mixture	GL,SK	11	13	4	4	4
<u>Wallflower</u>						
Double Early Flowered	GE	14	10	2	3	3
<u>Zinnia</u>						
Colossal Mix	GE	26	17	2	2	2
Germania Special Mix	GE	26	19	4	4	4
Pastel Pink	BO,GL	4	6	2	2	2
Pink Buttons Improved	BO,GL	17	16	3	3	3
Springtime	BO	23	16	1	1	1
Sprite Mixed	BO,GL	19	19	2	2	2
Sunshine Mixed	GR	26	14	2	2	2

1969 A.A.S. FLOWER ENTRIES

		<u>Height</u> <u>in.</u>	<u>Width</u> <u>in.</u>	<u>Florifer</u> <u>ous</u>	<u>Growth</u> <u>habit</u>	<u>Overall</u> <u>Rating</u>
369f01	Hibiscus Moscheutos, Mixed Giants	26	17	5	5	5
69f01C	Hibiscus, Avalon Hybrid	28	17	3	3	3
69f01C2	Hibiscus, Giant Hybrids	29	16	3	3	3
69f01C3	Hibiscus Moscheutos, Mixed	22	18	3	3	3
169f02	Salvia	8	9	3	3	3
69f02C	Salvia, Salmon Pygmy	7	7	2	2	2
469f03	Aster, China	15	13	4	4	4
69f03C	Aster, Obstrich Feather, Deep Rose	16	15	4	2	2
369F04	Marigold	15	17	4	4	4
869f05	Marigold	17	12	5	5	5
69f05C	Marigold, Rusty Red	19	20	4	4	4
669f06	Marigold	28	22	4	4	4
69f06C	Marigold, Diamond Jubilee	22	16	3	3	3
569f07	Hollyhock	29	15	4	4	4
69f07C	Hollyhock, Indian Spring	39	22	2	1	1
169f08	Ageratum	6	10	1	1	1
69f08C	Ageratum, Blue Surf	6	11	1	1	1
169f09	Phlox	11	12	1	1	1
69f09C	Phlox, Beauty Mixed	9	15	1	1	1
169f10	Dianthus	9	9	1	1	1
69f10C	Dianthus, Bravo	11	9	2	2	2
469f11	Ageratum	10	15	4	3	3
69f11C	Ageratum, Blue Chip	11	17	3	2	2
169f12	Ageratum	5	10	1	1	1
69f12C	Ageratum, Snow Carpet	10	14	2	2	2
269f13	Petunia	8	12	2	2	2
69f13C	Petunia, Presto	14	M	3	3	3
269f14	Petunia	13	M	2	2	2
69f14C	Petunia, Cardinal	10	M	1	2	2
269f15	Hollyhock	48	19	2	2	2
69f15C	Hollyhock, Triumph Supreme	34	20	1	2	2
69f15C2	Hollyhock, Indian Spring	39	22	2	1	1

		<u>Height</u> <u>in.</u>	<u>Width</u> <u>in.</u>	<u>Florifer</u> <u>ous</u>	<u>Growth</u> <u>habit</u>	<u>Overall</u> <u>Rating</u>
169f16	Amaranthus Tricolor	22	15	2	2	2
69f16C	Amaranthus Tricolor, Aurora	20	14	2	2	2
269f17	Morning Glory	8	M	3	3	3
69f17C	Morning Glory, Gentian Blue	8	M	1	1	1
369f18	Petunia, Darker Blue	13	M	4	3	3
69f18C	Petunia, Blue Mist	13	M	3	3	3
69f18C2	Petunia, Mercury	14	M	3	3	3
469f19	Marigold	20	18	4	4	4
69f19C	Marigold, Tangerine	18	20	4	4	4
69f19C2	Marigold, Brownie Scout	12	17	3	3	3
269f20	Cosmos Sulfereus	27	16	3	3	3
69f20C	Cosmos, Yellow Flare	24	16	3	3	3
169f21	Zinnia	28	18	3	1	2
69f20C	Zinnia, Ice Cream	32	16	3	2	2
969f22	Zinnia	25	21	5	5	5
69f22C	Zinnia, Rosy Future	30	19	4	4	4
369f23	Petunia	12	M	3	3	3
69f23C	Petunia, Capri	12	M	3	3	3
469f24	Petunia	13	M	4	4	4
69f24C	Petunia, Coral Satin	16	M	4	4	4
269f25	Aster	24	22	3	3	3
69f24C	Aster, Giant Crego Pastel Mixture	29	24	4	4	4
269f26	Aster	27	23	3	3	3
69f25C	Aster, American Branching Mixed	24	23	4	4	4
169f27	Zinnia	5	8	2	2	2
69f27C	Zinnia, Thumbelina Mini-Pink	4	5	1	1	1
169f28	Cosmos	24	24	2	2	2
569f29	Geranium	13	16	4	4	4
69f29C	Geranium, Carefree Scarlet	12	13	3	3	3
69f29C2	Geranium, New Era Scarlet	15	10	3	2	2
69f29C3	Geranium, New Era Bright Red	13	13	3	3	3
269f30	Marigold	11	14	3	3	3
469f31	Marigold	13	17	4	4	4
69f31C	Marigold, Flash	19	22	3	3	3

		<u>Height</u> <u>in.</u>	<u>Width</u> <u>in.</u>	<u>Florifer</u> <u>ous</u>	<u>Growth</u> <u>habit</u>	<u>Overall</u> <u>Rating</u>
169f32	Verbena	5	21	2	2	2
69f32C	Verbena, Roselight	5	M	2	2	2
69f32C2	Verbena, Sparkle Delight	7	11	2	2	2
26f33	Chrysanthemum	13	21	3	3	3
169f34	Geranium	12	7	2	2	2
169f35	Geranium	9	10	2	2	2
69f35C	Geranium, Carefree White	12	11	2	2	2
169f36C	Geranium	9	10	2	2	2
69f36C	Geranium, Carefree Red	15	14	3	3	3
169f37	Geranium	7	6	2	2	2
69f37C	Geranium, Carefree Light Salmon	12	13	3	3	3
168f55	Poppy	20	18	2	2	2
68f55C	Poppy, Tournefort	22	19	2	2	2
<u>1967 A.A.S. - Demonstration Only</u>						
	Foxglove (Digitalis) - Foxy	25	15	4	4	4
	Marigold - Golden Jubilee	23	22	3	4	3
	Sweet Pea - San Francisco	6	M	2	2	2
<u>1968 A.A.S. - Demonstration Only</u>						
	Celosia - Golden Triumph	20	16	3	3	3
	Geranium - Carefree Bright Pink	12	11	3	3	3
	Geranium - Carefree Deep Salmon	11	12	3	3	3
	Geranium - Carefree Scarlet	13	10	3	3	3
	Marigold - Orange Jubilee	24	14	3	3	3
	Verbena - Blaze	6	12	3	3	3
	Zinnia - Wild Cherry	30	19	4	4	4
<u>1969 A.A.S. Demonstration Only</u>						
	Cornflower - Snow Ball	14	14	4	3	3
	Marigold - First Lady	24	20	5	4	4
	Vinca rosea - Polka Dot	7	11	3	3	3
	Zinnia - Cherry Buttons	15	17	4	4	4
	Zinnia - Rosy Future	26	21	4	4	4
	Zinnia - Torch	26	20	4	4	4
<u>1970 A.A.S. - Demonstration - Final Check</u>						
	Dianthus - China Doll	8	7	3	3	3
	Marigold - Bolero	17	16	5	5	5
	Marigold - Empress	22	21	4	4	4
	Morning Glory - Early Call Rose	7	M	3	2	2
	Snapdragon - Madame Butterfly	18	15	4	4	4

SOURCE OF SEEDS

- AAS - All-America Selections, P.O. Box 1341, 4331 N. Front Street,
Harrisburg, Pennsylvania 17105.
- BO - Bodger Seeds, Ltd., Box 390, El Monte, California 91734.
- BU - W. Atlee Burpee Co., Philadelphia, Pennsylvania 19132.
- FL - Raymond A. Fleck Company, Southampton, Pennsylvania.
- GE - Germania Seed Co., 5952 North Milwaukee Ave., Chicago, Ill. 60646.
- GL - Fred C. Gloeckner & Co., Inc., 15 East 26th St., New York, N.Y. 10010.
- GO - Goldsmith Seeds, Inc., P.O. Box 1347, Gilroy, California 95020.
- GR - H. G. German Seeds, 130 Bank Street, Smethport, Pa. 16749.
- HA - Joseph Harris Co., Inc., Moreton Farm, Rochester, N.Y. 14624.
- PA - Pan-American Seed Co., Cortez, Florida.
- PK - Geo. W. Park Seed Co., Inc., Greenwood, South Carolina 29647.
- SK - T. Sakata & Co., 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.