

Annual Flowers - 1964 Variety Trials

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RESEARCH REPORT 99

JANUARY 1965

VIRGINIA AGRICULTURAL EXPERIMENT STATION
VIRGINIA POLYTECHNIC INSTITUTE
BLACKSBURG, VIRGINIA

1964 ANNUAL FLOWER VARIETAL TRIALS

Agricultural experiment stations and commercial seed companies are continually developing and introducing new varieties of garden annuals. These need to be evaluated and compared with other varieties for growth habits, disease resistance, and seasonal interest. Bedding plant growers, florists, and nurserymen in Virginia need this information. Many growers never have a chance to observe growth habits beyond the seedling stage of varieties they produce, unless they visit trial gardens in other states. Environmental conditions in other states could be considerably different and there would be differences in plant growth habits. Annual flower variety trials reported here offer Virginia growers an opportunity to observe and compare several varieties from various sources.

Variety evaluations were conducted at the gardens on the Virginia Polytechnic Institute campus. The seeds were sown the first week in March in flats containing a steam-sterilized media of equal parts of soil, peat moss, and perlite. The flats were then placed 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 flats were removed to a 60°F greenhouse. The seedlings were transplanted to 2¼" peat pots as soon as they developed the second set of true leaves. Each pot contained steam-sterilized media of equal parts of soil and peat moss. On May 11, 1964 the plants were transplanted in beds fumigated with methyl bromide at the rate of 1 lb. per 100 sq. ft. to control weeds and diseases. The trial plot for each variety was 6' x 3' with 15 plants per plot, spaced at 1½' intervals. All transplants were fertilized by side dressing with a 10-10-10 fertilizer at a rate of 50 lbs. per 1000 sq. ft. The beds were irrigated as needed during the growing season.

Plants were evaluated from July 27 to 31 for uniformity in flowering and color, disease resistance, and growth characteristics. This period was considered optimum relative to growth responses and esthetic characteristics. Width and height measurements in the tables represent averages in inches. Considerable variation was noted in some species. In some instances the plants had grown together forming thick mats or carpets, and the width was recorded as "massed." Seed sources are identified on pages 19 and 20.

AGERATUM

Plants within each variety varied as much as 50% in height, width, and amount of bloom. Flowering characteristics of some varieties had an open inflorescence when compared to Blue Mink.

<u>Variety</u>	<u>Seed Source</u>	<u>Width</u> <u>in.</u>	<u>Height</u> <u>in.</u>
Tetra Blue #30	Glo	13	10
Dwarf Princess Blue	Glo	11	8
Snow Puffs #13	Glo	14	9
Dwarf White	Ger	12	6
Beauty Queen	Ger	14	9
Ping Pong	Ba	14	8
Dwarf Blue	Ger	15	8
Blue Mink	Sak	13	9
Snow Carpet	GSC	14	9
Blue Boy	M	15	8

ALYSSUM

All plants within a variety were uniform in flower color; however, in growth characteristics there was a slight variation.

<u>Variety</u>	<u>Seed Source</u>	<u>Width</u> <u>in.</u>	<u>Height</u> <u>in.</u>
Royal Carpet	FM	12	4
Carpet of Snow	V	16	4
Rosie O'Day	FM	10	4

AMARANTHUS

All plants varied in height and width within each variety and all died by late August.

<u>Variety</u>	<u>Seed Source</u>	<u>Width</u>	<u>Height</u>
Fountain Plant	Ger	17	15
Tricolor Splendens	M	15	15

ASTERS

All plants within each variety were uniform in growth and flowering. The 3 Dwarf Queen varieties were compact; Red Ball, Honey Comb White, Honey Comb Pink, and Giant Perfection Rose all had an open and spreading growth form. All plants died by late August.

<u>Variety</u>	<u>Seed Source</u>	<u>Width</u>	<u>Height</u>
Burpee Rose	Bur	18	28
Dwarf Queen, White	M	12	11
Dwarf Queen, Light Blue	M	12	11
Dwarf Queen, Rose	M	12	11
Pompon Ariake, White	Sak	12	20
Giant Spider Pink	Ger	16	21
Unicum Mixture	P	16	17
Laplato Mixed	P	10	22
Flashing Lights	Glo	16	15
Red Ball	Glo	26	26
Honey Comb, White	Glo	20	22
Honey Comb, Pink	Glo	21	19
Bright Stars	Glo	18	19
Giant Perfection Pink	Ger	17	10
Giant Perfection Rose	Ger	22	23
Pink Perfection	H	19	21

BALSAM

Plants were uniform within each variety. Tom Thumb set seeds and ceased flowering in July, while Peppermint continued to flower into August.

BALSAM (cont.)

<u>Variety</u>	<u>Seed Source</u>	<u>Width</u> <u>in.</u>	<u>Height</u> <u>in.</u>
Tom Thumb Formula			
Mixed Color	Sak	4	5
Peppermint	P	11	16

BASIL

All plants were uniform and attractive from June to September.

<u>Variety</u>	<u>Seed Source</u>	<u>Width</u>	<u>Height</u>
Dark Opal	FM	16	12

BEGONIA

Plants were grown in full sunlight, which accounts for the small size.

<u>Variety</u>	<u>Seed Source</u>	<u>Width</u>	<u>Height</u>
Carmine Tarantella	Ger	6	5
Pink Profusion	V	11	6
Galaxy Mixture	Ba	6	4
Lucifer	V	7	5
Stuttgart	V	7	6

BLANKET FLOWER

<u>Variety</u>	<u>Seed Source</u>	<u>Width</u>	<u>Height</u>
Double Gaiety Mixture	FM	Massed	30

BROWALLIA

<u>Variety</u>	<u>Seed Source</u>	<u>Width</u>	<u>Height</u>
Silver Bells	P	11	8

CALENDULA

Plants were uniform and compact, and very floriferous in June and July. In August they developed unsightly seed pods.

<u>Variety</u>	<u>Seed Source</u>	<u>Width</u>	<u>Height</u>
Dwarf Orange	FM	12	13
Orange Coronet	Ba	12	13

CARNATIONS

All plants were uniform in growth habits.

<u>Variety</u>	<u>Seed Source</u>	<u>Width</u> <u>in.</u>	<u>Height</u> <u>in.</u>
Claudia Mixed	GSC	11	15
Colorama Mixed	H	11	7
Bravo	S	10	9
Dwarf Fragrance	Ger	9	12
Baby Doll	V	8	5

CELOSIA

Flower color was uniform in all varieties. Festival and Forest Fire Improved had attractive foliage and flowers. There was considerable variation in growth of Kardinal Improved, Mixed #110, Gladiator Improved, and Toreador. Plants of all varieties ceased growth and became unsightly in late August. Yellow Toreador and Toreador produced many small flowers.

<u>Variety</u>	<u>Seed Source</u>	<u>Width</u>	<u>Height</u>
Rose Empress	Sak	6	8
Kardinal Improved	Sak	8	5
Mixed #110	Glo	13	9
Gladiator Improved	Sak	7	7
Fireglow	Sak	12	8
Yellow Toreador	M	16	12
Festival	P	14	12
Fiery Weather	M	13	12
Forest Fire Improved	Sak	18	19
Golden Gem	P	8	9
Golden Weather	M	15	11
Orange	Sak	8	8
Toreador	M	12	10
Empress Improved	GSC	6	6

CHRYSANTHEMUMS

Plants formed buds, but frost injury in mid-October prevented flowering.

<u>Variety</u>	<u>Seed Source</u>	<u>Width</u>	<u>Height</u>
Korean Hybrid Glorious Mixed Colors	Sak	Massed	12-24

CINERARIA

All plants were uniform in growth.

<u>Variety</u>	<u>Seed Source</u>	<u>Width</u> <u>in.</u>	<u>Height</u> <u>in.</u>
Silverdust	Ger	9	6
Hoar-frost	Ger	9	6

CLADANTHUS ARABICUS

Plants formed a dense, compact mat, and all died by late August.

<u>Variety</u>	<u>Seed Source</u>	<u>Width</u>	<u>Height</u>
Cladanthus	P	18	13

CLEOME

All plants were uniform in growth and flower color.

<u>Variety</u>	<u>Seed Source</u>	<u>Width</u>	<u>Height</u>
Pink Queen	FM	30	36

COBAEA

This is a vigorous growing vine with small, inconspicuous flowers.

<u>Variety</u>	<u>Seed Source</u>	<u>Width</u>	<u>Height</u>
Scandens	FM	20	4

COLEUS

Attractive mixtures were Croton Leaved and Parks Brilliant. Volcano and Kimono colors were variable. Pink Sensation #17 was stunted and grew little.

<u>Variety</u>	<u>Seed Source</u>	<u>Width</u>	<u>Height</u>
Pink Sensation #17	Glo	5	4
Volcano	Glo	12	10
Park Chartreuse	P	8	6
Vaughan's Rainbow Mix	V	14	9
Red Monarch	Sak	16	15
Superfine Rainbow Volcano	Sak	15	10
Kimono Colors	FM	12	10
German's Rainbow Mixture	Ger	12	12
Croton Leaved Mixture	Ger	16	12
Parks' Brilliant Mixture	P	15	13

DAHLIA

Each variety had a large assortment of flower color on dwarf and compact plants.

<u>Variety</u>	<u>Seed Source</u>	<u>Width</u> <u>in.</u>	<u>Height</u> <u>in.</u>
Elite Dwarf Hybrids	GSC	18	19
Extra Dwarf Hybrids	F	17	15
Extra Dwarf Double Mix	V	12	14
Unwin's Dwarf Mix	FM	15	12

DELPHINIUM

The plants grew well from seeds sown in March and produced light to dark blue flowers throughout the summer.

<u>Variety</u>	<u>Seed Source</u>	<u>Width</u>	<u>Height</u>
Connecticut Yankee	AAS	22	10

DIMORPHOTHECA

Plants were attractive and full of bloom until late July, then became straggly and died out.

<u>Variety</u>	<u>Seed Source</u>	<u>Width</u>	<u>Height</u>
Tetra Goliath	GSC	12	16

FLOWERING CABBAGE

Different colors were evident, and the plants were most attractive during cool June weather. Late in the summer the plants became tall and formed loose heads.

<u>Variety</u>	<u>Seed Source</u>	<u>Width</u>	<u>Height</u>
Mixed Colors	Sak	18	16

FLOWERING KALE

Plants were most attractive in June, with red the predominate color.

<u>Variety</u>	<u>Seed Source</u>	<u>Width</u>	<u>Height</u>
Mixed Colors	Sak	13	12

FOUR O'CLOCK

Plants within the mixture produced yellow, white, and pink flowers. Measurements represent an average since growth was not uniform.

<u>Variety</u>	<u>Seed Source</u>	<u>Width</u> <u>in.</u>	<u>Height</u> <u>in.</u>
Marvel of Peru	FM	13	18

GAZANIA

Plants were uniform in each variety. They were attractive throughout the summer with flowers of white, yellow, and bronze.

<u>Variety</u>	<u>Seed Source</u>	<u>Width</u>	<u>Height</u>
Grandiflora Mixed	Ger	14	12
Fire Emerald	P	14	12

GERANIUM

Florist Mix produced good-quality plants with assorted flower colors that were mostly single. Plants of Hybrid Grand Mixed #57 were small, and produced no flowers by August 18.

<u>Variety</u>	<u>Seed Source</u>	<u>Width</u>	<u>Height</u>
Florist Mix	FM	17	18
Hybrid Grand Mixed #57	Glo	12	8

GLORIOSA DAISY

All plants were uniform in height.

<u>Variety</u>	<u>Seed Source</u>	<u>Width</u>	<u>Height</u>
Pinwheel	Bur	Massed	36

HELIOPSIS

Plants were large and straggly, and produced an abundance of yellow flowers.

<u>Variety</u>	<u>Seed Source</u>	<u>Width</u>	<u>Height</u>
Summer Sun	P	Massed	37

HOLLYHOCK

Plants were uniform in habit of growth, but there were no flowers by late August.

<u>Variety</u>	<u>Seed Source</u>	<u>Width</u> <u>in.</u>	<u>Height</u> <u>in.</u>
Powderpuffs Mixed	P	13	1

IMPATIENS

<u>Variety</u>	<u>Seed Source</u>	<u>Width</u>	<u>Height</u>
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All varieties except Pan American Rose had plants of uniform growth habit. All varieties had flowers of uniform color. Pan American Mixture consisted of rose and deep pink shades.

<u>Variety</u>	<u>Seed Source</u>	<u>Width</u>	<u>Height</u>
Pan American Mixture	Glo	16	12
Pan American Rose	Glo	15	12
Orange Jewel	Ba	Massed	17
Delicate Rose	M	Massed	19
Pixie White	M	Massed	17
Pink Jewel	Ba	Massed	24

JEWELS OF OPAR

Plants had an upright habit of growth and had small pink flowers that developed into bright red fruit. Plants were attractive all summer.

<u>Variety</u>	<u>Seed Source</u>	<u>Width</u>	<u>Height</u>
Jewels of Opar	P	40	38

LOBELIA

Each variety was uniform in flower color and habit of growth, and attractive during June and July. In August the plants stopped blooming and started to die. String of Pearls Mixture had plants with orchid and light and dark blue flowers, Crystal Palace had dark blue flowers, and Blue Stone had blue flowers.

<u>Variety</u>	<u>Seed Source</u>	<u>Width</u>	<u>Height</u>
Heavenly	M	8	10
Blue Stone	F	15	7
Crystal Palace	M	12	7
String of Pearls Mixture	Ger	15	8

MARIGOLD

All plants were uniform in habit of growth and floriferousness. Irish Lace had soft, fern-like foliage and white, inconspicuous flowers. Dolly was extra dwarf with giant flowers 2" to 2½" wide.

<u>Variety</u>	<u>Seed Source</u>	<u>Width</u> <u>in.</u>	<u>Height</u> <u>in.</u>
Dolly	P	7	4
Brittany	Ger	12	7
Petite Mixed	V	11	7
Sparky	P	16	12
Dainty Marietta	Ger	16	11
Cupid Orange	M	11	9
Color Magic	M	14	10
Spun Gold	M	13	10
Gold Improved	F	22	22
Irish Lace	P	19	8
Texas	Bur	23	22
Geraldine	Bur	19	17
Climax Mixed	M	21	22
Crackerjack	FM	13	16
X-15	FM	21	19
Double Eagle	V	23	18
Sovereign	V	20	21
Doubloom	V	25	25
Lemon Yellow	Glo	14	18

MATRICARIA

Plant height and width were uniform and plants were attractive during June and July. In August, seed pods formed and they became unattractive.

<u>Variety</u>	<u>Seed Source</u>	<u>Width</u>	<u>Height</u>
Golden Nuggets	Ger	14	13
White Stars	P	13	7

MORNING GLORY

Plants of all varieties completely covered the ground after 3 months of vigorous growth. There were few flowers in July, but in early September there was a profusion of flowers.

<u>Variety</u>	<u>Seed Source</u>	<u>Width</u>	<u>Height</u>
Double Flower Blue	Sak	Massed	12
Pearly Gates	FM	Massed	13
Gentian Blue	Sak	Massed	12
Red Dawn	Sak	Massed	11
Red Monarch	Glo	Massed	11

NICOTIANA

Plants were of uniform growth and were profuse bloomers during June and July. In August they became unattractive.

<u>Variety</u>	<u>Seed Source</u>	<u>Width</u> <u>in.</u>	<u>Height</u> <u>in.</u>
Sensation Mix	FM	27	30
Lime Sherbet	P	24	30

ORNAMENTAL PEPPER

Plants of all varieties grew vigorously and produced a heavy fruit set, which started to turn purple and orange by August 20.

<u>Variety</u>	<u>Seed Source</u>	<u>Width</u>	<u>Height</u>
Orange 95	Glo	15	9
Christmas Pepper	Glo	11	13
Red Boy	Sak	17	14

PANSY

All pansy seeds were sown March 3. When measurements were made July 28, all plants were growing well. Mixed varieties contained a large assortment of color. The measurements represented are averages, and there was considerable variation from this figure. Blue Waters had deep blue flowers and Blue Dream had light blue flowers.

<u>Variety</u>	<u>Seed Source</u>	<u>Width</u>	<u>Height</u>
Golden Rapture	Sak	10	7
Formula Mixed Colors	Sak	11	9
Super Beaconfield	Sak	13	8
Super Swiss Mixed Colors	Sak	9	8
Vaughan's Swiss Master Blend	V	9	7
Arcadia Mix	FM	9	8
World's Fair Mixture	Ger	10	8
Blue Waters	Ger	10	8
German's Special Swiss Giants	Ger	11	8
Blue Dream	Ger	11	8
Golden Eye	Ger	9	7
Majestic	AAS	11	9
Majestic Mix	AAS	10	7

PETUNIA

Most plants within a variety were uniform in height, width, and other growth characteristics. Any variation of these characteristics is noted in a comment beside the height.

<u>Variety</u>	<u>Seed Source</u>	<u>Width</u> <u>in.</u>	<u>Height</u> <u>in.</u>
White Cascade	M	Massed	14
Red Cascade	M	Massed	12
Ace of Hearts	H	Massed	14
Red Ensign	V	Massed	13
Albatross	H	Massed	13
Buccaneer	H	Massed	14
Flamingo	H	Massed	14
Gaytime	H	14	12 (fair color)
Grand Slam	H	Massed	20 (fair color)
Kandy Kane	H	Massed	21 (fair color)
King of Diamonds	H	Massed	16
Red Wing	H	Massed	13
Rose Elegance	H	Massed	13
Seafoam	H	Massed	18
White Thrills	H	Massed	20
Cherry Lustre	Glo	Massed	16
Salmon Frills	Glo	Massed	12
Crimson Delight	Glo	Massed	13
Carmine Showers	Glo	Massed	23
Cardinal Wonder	Glo	Massed	18
Rose Showers	Glo	14	8 (very floriferous and compact)
Rose Wonder	Glo	Massed	16
Silver Showers	Glo	Massed	23 (tall growth)
Strawberry Tart	Glo	13	12
Violet Showers	Glo	Massed	26 (tall growth)
White Dandy Improved	Glo	Massed	20 (small flowers)
Sugar Daddy	M	Massed	17
Alaska	M	18	15
Ballerina	M	Massed	16
Bingo Improved	M	Massed	15 (fair color)
Calypso	M	20	12 (fair color)
Capri	M	17	15
Carnival	M	16	18 (poor color)
Coral Magic	M	19	10
Crusader	M	Massed	18
Hawaii	M	Massed	13
Pink Cheeks	M	Massed	19 (fair color)
Prima Donna Improved	M	Massed	13
Scarlet Lustre	M	Massed	16
Tango	M	Massed	13
Toreador	M	Massed	13
Rose Desire	Ba	19	11 (fair color)
Scarlet Desire	Ba	13	12 (straggly growth)
White Giant	Ba	16	9 (large flowers)

<u>Variety</u>	<u>Seed Source</u>	<u>Width in.</u>	<u>Height in.</u>
Aristocrat	V	14	10
Pink Desire	V	13	8 (poor growth)
Snow Lady	V	14	14
Grand Prize	GSC	14	12
Coral Salmon	Pa (3-5B-33)	18	11
White	Pa (3-5C-5)	Massed	16
White Magic	Pa (3-5C-18)	Massed	17 (pink stripes in flower and not uniform in growth)
Blue & White Star	Pa (3-5D-82)	13	15
Double Rose & White	Pa (3-D5A-4)	15	12 (variation in color and habit of growth)
Double Red & White	Pa (3-D5B-63)	14	13 (nice double red)
Double Red & White	Pa (3-D5B-64)	15	13
Double Red & White	Pa (3-D5B-67)	14	12
Double Red & White	Pa (3D5B-66)	14	12
Double Deep Purple	Pa (3-D5D-16)	15	13
Apple Blossom	Pa	Massed	13
Bingo Improved	Pa	Massed	15
Coral Magic	Pa	19	11 (fair color)
Blue Mantle	Sak	Massed	17
Dreamland	Sak	Massed	18 (fair color)
Flirt	Sak	Massed	19
Highlight	Sak	Massed	16
Pink Mascot	Sak	Massed	15
Scarlet Flame	Sak	Massed	20
Gypsy Parade	Sak	Massed	17 (fair color and small flowers)
Snow Cap Improved	Sak	Massed	19 (fair color and large flowers)
Vesuvius	Sak	Massed	19
Sungleam	Sak	16	17
Coral Satin	M	Massed	18
Glitters	M	Massed	16 (fair color)
High Noon	M	Massed	20
Honey Bunch	M	Massed	11
Peppermint	M	Massed	17
Polaris	M	10	13 (straggly growth)
Venus	M	Massed	15 (fair color)
Happy Talk Crimson Star	FM	12	14 (poor growth and fair color)
Happy Talk Deep Salmon	FM	Massed	14
Happy Talk Mix	FM	Massed	14
Happy Talk Deep Rose Pink	FM	Massed	18
Happy Talk Scarlet	FM	Massed	17
Happy Talk Scarlet & White	FM	Massed	19 (poor color)
Happy Talk Violet	FM	Massed	16
Happy Talk White	FM	Massed	20
Jetfire	H	Massed	15
Margot	H	Massed	19

<u>Variety</u>	<u>Seed Source</u>	<u>Width</u> <u>in.</u>	<u>Height</u> <u>in.</u>
Pacesetter	H	Massed	15 (fair color)
Pink Bountiful	H	Massed	20
Purple Waters	H	Massed	14
Royal Ruby	H	Massed	22
Snowdrift	H	Massed	22
Sundance	H	Massed	17
White Bountiful	H	Massed	27
Fire Beacon	H	12	13
Fire Cliff	GSC	14	18
White Sheen	Ger	16	12
Light Pink	Pa (3-7A-9)	Massed	16
Red	Pa (3-7B-142C)	Massed	16
Red	Pa (3-7B-133C)	Massed	15
Commanche	Pa	Massed	17
Red with White Star	Pa (3-7B-160)	17	16
Red with White Star	Pa (3-7B-173)	15	13
White	Pa (3-7C-10)	Massed	17
Yellow	Pa (3-7C-19)	Massed	15
Yellow	Pa (3-7C-33)	Massed	15
Lavender Veined	Pa (3-7E-9)	Massed	18
Lavender Veined	Pa (3-7E-24)	Massed	18
Sugar Plum	Pa	Massed	18
Paleface	Pa	Massed	18 (small flowers)
Meteor	Pa	13	12
Blue Sky	Sak	Massed	15
Cleopatra Improved	Sak	Massed	21
Fire Bird	Sak	Massed	16
Glitters	Sak	14	10 (straggly growth and uneven in flowering)
Scarlet Gem	Sak	Massed	18
Starmaster	Sak	Massed	15
Blue Ribbon	V	Massed	18
Brass Band	V	12	11
Cover Girl	H	Massed	13 (extremely floriferous)
Fire Beacon	H	Massed	18
Gypsy	H	Massed	17
Peaches 'n Cream	Ba	Massed	20
Torchlight	Ba	Massed	18
Annie	H	Massed	14
Blue Mist	H	Massed	14 (best variety in garden)
Dorothy Favorite	Sak	Massed	9
Rosy Carmine Reselected	Sak	12	9
Dwarf Master Blend	V	Massed	12
Lyric	M	Massed	18
Star Trophy	V	15	14
Bonanza Mixed	V	Massed	16
Cherry Tart	M	Massed	16

<u>Variety</u>	<u>Seed Source</u>	<u>Width</u> <u>in.</u>	<u>Height</u> <u>in.</u>
Parks Strawberry Tart	P	15	13
Double White	Pa (3-D-7C-1)	Massed	14
Double White	Pa (3-D-7C-4)	Massed	12
Double Blue & White	Pa (3-D-7D-24)	Massed	12
Masterpiece	M	14	13
Dwarf Lavender	Sak	10	9 (large flowers and small plants)

PHLOX

Plants of the Special Strain variety had an open habit of growth.

<u>Variety</u>	<u>Seed Source</u>	<u>Width</u>	<u>Height</u>
Special Strain	F	9	12
Dwarf Master Blend	V	10	8

PORTULACA

All varieties produced vigorous growth that resulted in a mass covering of the area. Plants were most attractive during June and July. They stopped blooming and set seed in August.

<u>Variety</u>	<u>Seed Source</u>	<u>Width</u>	<u>Height</u>
German's All Double Mixed	Ger	19	7
Double Finest Mixed	V	19	7
Single Red Jewel	Ger	22	10
Double Mixed	F	19	7
Single White Jewel	Ger	18	7

PRINCESS FEATHER

Plants grew into a solid mat within 2 months. Varieties were identical in their growth and physical characteristics.

<u>Variety</u>	<u>Seed Source</u>	<u>Width</u>	<u>Height</u>
Summer Carpet	Ger	36	4
Magic Carpet	P	36	4

SALVIA

<u>Variety</u>	<u>Seed Source</u>	<u>Width</u>	<u>Height</u>
Dwarf Early Bonfire	Ger	19	16
Snow Tips	P	11	12
Fireball Improved	Sak	14	18
Fireball	GSC	18	17
Red Rocket Improved	GSC	12	16

SALVIA (cont.)

<u>Variety</u>	<u>Seed Source</u>	<u>Width</u> <u>in.</u>	<u>Height</u> <u>in.</u>
Scarlet #107	Glo	10	12
Scarlet #112	Glo	12	12
Scarlet #12-A	Glo	15	11
Red Magnum	Glo	15	14
Red Flares	Glo	14	14
Scarlet Midget	Ger	11	10
Cardinal	Ba	15	15
Bonfire	Ger	20	17
New Tetraploid Type	Ger	12	12
Red Pillar	H	12	15
Evening Glow	M	15	16
Fireworks	Ger	14	14
Pink Rouge	Ger	12	14
Purple Blaze	H	14	13

SNAPDRAGONS

Plants within a variety were uniform in height, width, and color. The extra dwarf varieties would make excellent edging or ground cover plants. Color of all varieties were true to name.

<u>Variety</u>	<u>Seed Source</u>	<u>Width</u>	<u>Height</u>
Extra Dwarf Floral			
Carpet Red	Sak	10	5
Extra Dwarf Floral			
Carpet White	Sak	10	6
Extra Dwarf Floral			
Carpet Bronze	Sak	11	6
Extra Dwarf Floral			
Carpet Orchid	Sak	12	5
Extra Dwarf Floral			
Carpet Rose	Sak	13	7
Extra Dwarf Floral			
Carpet Formula Mix	Sak	11	5
Extra Dwarf Floral			
Carpet Yellow	Sak	12	7
Dwarf Light Pink	Pa	13	10
Dwarf Rose	Pa	16	14
Dwarf White	Pa	14	10
Dwarf White Tube			
Magenta	Pa	16	10
Dwarf Dark Crimson	Pa	12	10
Dwarf Yellow	Pa	13	11
Dwarf Cherry Rose	Pa	13	14
Knee-High White Tube			
Rose	Pa	14	22
Knee-High Yellow	Pa	16	15
Knee-High Rose	Pa	14	20
Knee-High White Tube Red	Pa	14	20
Knee-High Bronze	Pa	15	20

SNAPDRAGONS (Cont.)

<u>Variety</u>	<u>Seed Source</u>	<u>Width</u> <u>in.</u>	<u>Height</u> <u>in.</u>
Knee-High Red	Pa	13	19
Knee-High White			
Tube Bronze	Pa	11	19
Knee-High Salmon			
Scarlet Bronze	Pa	10	15
Knee-High Mix	Pa	12	20
Knee-High Cherry Rose	Pa	14	19
Intermediate White	Pa	14	20
Intermediate Frosty			
Rose	Pa	15	18
Topper	Bur	20	28
First Ladies Pink	FM	11	22
First Ladies Light			
Orange	FM	15	22
First Ladies Yellow	FM	16	26
First Ladies Crimson	FM	11	24
First Ladies White	FM	12	20
First Ladies Mixed	FM	15	22
Golden Rocket	Pa	13	33
Pink Rocket	Pa	13	30
Bronze Rocket	Pa	17	30
Rose Rocket	Pa	12	30
White Rocket	Pa	12	33
Orchid Rocket	Pa	14	25
Red Rocket	Pa	14	21
Rocket Strain Mix Colors	H	15	16
Frontier Strain Mix Colors	H	17	23
Firebird	P	13	17
United Sprites Mix	V	14	12
Sunrise Formula Mix	V	14	20
Mardi Gras Mix	V	12	20
Formula Mixed Colors	Sak	15	20
Spring Flowering Mixed	GSC	14	21
Salmon Giant	Glo	14	16
Crimson	Ger	12	20
World Fair Bright Rose	Ger	17	26
World Fair Soft Pink	Ger	16	30
World Fair Mixed	Ger	15	26
World Fair Better Times			
Rose	Ger	12	23
World Fair White	Ger	17	26
Orange	Ger	12	18
Old Gold	Ger	8	11
Orange Scarlet	Ger	14	15
Clear Pink	Ger	13	16

STRAWFLOWER

Plants were dwarf with compact, uniform growth habit and primarily yellow and pink flowers.

<u>Variety</u>	<u>Seed Source</u>	<u>Width</u> <u>in.</u>	<u>Height</u> <u>in.</u>
Dwarf Mixture	Ba	14	15

SUNFLOWER

<u>Variety</u>	<u>Seed Source</u>	<u>Width</u>	<u>Height</u>
Italian White	P	60	40

SWEET PEAS

All plants produced flowers and grew well during June. By August they became straggly and many died.

<u>Variety</u>	<u>Seed Source</u>	<u>Width</u>	<u>Height</u>
Fireglo	Bur	Massed	8
Catalina	Bur	Massed	8
Bijou	Bur	Massed	8
Sweet Rosette	Bur	Massed	9
Pinkette	Bur	Massed	8
Scarlette	Bur	Massed	7
White Pearl	Bur	Massed	8

SWEET WILLIAMS

Plants of each variety had uniform habit of growth. There was uniform flower color in the Red Monarch variety. Dwarf Single and Dwarf Double Mixture did not flower by August 18.

<u>Variety</u>	<u>Seed Source</u>	<u>Width</u>	<u>Height</u>
Dwarf Single	M	12	6
Dwarf Double Mixture	M	12	6
Red Monarch	AAS	10	11

TASSEL FLOWER

Plants grow vigorously and produce unsightly seed pods after flowering.

<u>Variety</u>	<u>Seed Source</u>	<u>Width</u>	<u>Height</u>
Flammea	P	20	25

VERBENA

Mixed varieties had a wide range of flower colors. Torrid variety had excellent red flowers.

<u>Variety</u>	<u>Seed Source</u>	<u>Width</u> <u>in.</u>	<u>Height</u> <u>in.</u>
Candy Spots	Ger	10	8
Torrid	Ba	Massed	10
Dwarf Master Blend	V	Massed	9
German's Exhibition Mixture	Ger	Massed	10
Candy Stripe	P	15	8
Early Dwarf Upright	F	11	9

VINCA

Plants of all varieties were uniform in height, width, and flowering characteristics, and by late August had a mass effect. Rose Carpet is a procumbent type.

<u>Variety</u>	<u>Seed Source</u>	<u>Width</u>	<u>Height</u>
Rose Carpet	Sak	20	5
Dwarf Little Bright Eye	Sak	15	12
Little Pinkie	Sak	14	12

ZINNIA

Flower color in all mixtures varied from white, pink, and orange to scarlet. Plant height and width also varied. By late August, all varieties, except Linearis River of Gold, were infested with leaf spot disease and mildew.

<u>Variety</u>	<u>Seed Source</u>	<u>Width</u>	<u>Height</u>
Tom Thumb Mixture	V	18	18
Pink Buttons	Ger	13	12
Lilliput Mix	FM	15	17
Cupid Mixed	V	18	15
Linearis River of Gold	FM	16	13
Golden Heart	V	17	21
Red Buttons	Ger	12	11
Old Mexico	FM	14	15
Red Lady	P	17	21
Grand Canyon Mixture	P	13	17
Magnificent Mixture	H	18	22
State Fair, Mixed	FM	23	24
State Fair, Lavender & Purple Shades	FM	22	18
State Fair, Orange Shades	FM	20	22
State Fair, Pink Shades	FM	20	18
State Fair, Yellow Shades	FM	15	22
State Fair, Rose & Salmon Shades	FM	16	19
State Fair, Bright Scarlet	FM	19	23
State Fair, Scarlet Shades	FM	18	14

ZINNIA (Cont.)

<u>Variety</u>	<u>Seed Source</u>	<u>Width</u> <u>in.</u>	<u>Height</u> <u>in.</u>
State Fair, Golden Yellow Shades	FM	20	20
Firecracker	Bur	Massed	36
Bonanza	Bur	Massed	38
Princess	Bur	Massed	37
Zenith	Bur	Massed	36
Old Mexico	AAS	Massed	25
Red Man	AAS	Massed	30
Firecracker	AAS	Massed	34
Yellow Zenith	AAS	Massed	30
Pink Buttons	AAS	22	20
Thumbellina	AAS	12	9

SOURCE OF SEEDS

AAS	All-American Selections W. Ray Hastings Harrisburg, Pennsylvania
Ba	George J. Ball, Inc. West Chicago, Illinois
Bur	W. Atlee Burpee Company Philadelphia 32, Pennsylvania
FM	Ferry-Morse Seed Company P. O. Box 100 Mountain View, California
F	Raymond A. Fleck, Inc. Southampton, Pennsylvania
Ger	H. G. German, Seeds Box N Smethport, Pennsylvania
GSC	Germania Seed Company 6952 N. California Avenue Chicago 45, Illinois
Glo	Fred C. Gloeckner Co., Inc. 15 East 26th Street New York 10, New York
H	Joseph Harris Co., Inc. Moreton Farm Rochester, New York

M	Henry F. Michell Company King of Prussia, Pennsylvania
Pa	Pan American Seed Company Paonia, Colorado
P	George W. Park Seed Company Greenwood, South Carolina
Sak	T. Sakata & Company Yokohama, Japan
V	Vaughan's Seed Company 5300 Katrine Avenue Downers' Grove, Illinois

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