

# Ohio State Learning Gardens 2004 Annual Flower Trials, Columbus Campus

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## **In-Ground Trials**

The 2004 season marked a year of continuing expansion for our trials. This was the first year our in-ground trials were conducted at a new site adjacent to our departmental buildings, in an area of high visibility on the Columbus campus of The Ohio State University. The beds are all located in full sun. New ground has already been broken which will more than double our trial bed space for the 2005 season.

## **General Information**

Seeded entries were sown at staggered dates in March to early April by David Cuthbert at Darby Creek Growers, Orient, Ohio, and grown on until they reached full plug size. They were then transplanted to 3.5-inch cell paks in our departmental greenhouses, along with the majority of the vegetative entries, in mid-April. Vegetative geranium entries were received on March 12 and transplanted to 4.5-inch pots on March 15.

All plants were transplanted outside to the trial beds between May 20 and May 24.

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In general, 7 to 10 plants per cultivar were trialed on 1.5-foot centers. Spacing was varied as needed by species.

## **Watering and Fertilization**

Plants were watered as needed by hose or overhead sprinkler.

Plants were fertilized at post-planting with Peters 20-10-20 at 200 PPM N via Dosatron. Fertilization was at weekly intervals for the first month, then at two- to three-week intervals through August.

## **Weather Conditions**

The first weeks of the growing season were wet with lower-than-normal temperatures, so plants were slow to start. Intermittent periods of high heat and humidity kicked the plants into gear. Overall, it was a season of lower-than-normal temperatures and above-average rainfall.

## **Pest and Disease Problems**

There were a few problems with root rot early in the season on a few susceptible species due to the cool, wet conditions. There were not any noticeable insect problems.

## Evaluation Dates

Evaluations were performed on a monthly basis, beginning approximately one month after transplant. This year, plant characteristic ratings were performed on July 19, August 17, and September 16 by the Trials Coordinator and Trials Leader.

## Evaluation Criteria

Ratings were based on a 1 to 5 scale:

- 1 = Poor / not acceptable
- 2 = Fair
- 3 = Good
- 4 = Very good
- 5 = Excellent.

Plants were evaluated for the following characteristics:

Flower Number: 1 = Low, 5 = Very floriferous

Flower Quality: Aesthetics, color, health, and appearance.

Foliage/Plant Vigor: Vegetative vigor, aesthetics / color, health, and appearance.

Plant Uniformity: 1 = Quality is variable from plant to plant; 5 = Similar quality between all plants.

Overall: Overall rating for all plants in the grouping, taking all the previous aspects into consideration.

(Only the data from the Overall ratings are presented here.)

## Consumer Preference Evaluations

In addition, our Annuals Team of Master Gardeners (comprised of seven individuals this season) evaluated the entries at monthly intervals on July 27, August 17, and September 21. An Overall

rating on a 1 to 5 scale (with 5 = excellent) was given per entry. This was conducted as a personal preference rating.

## Results

Trial results are presented in the accompanying tables.

Table 1 - Consumer Preference Evaluation.

Table 2 - Evaluation of Plant Characteristics — Overall Rating.

Complete trial results, including photos, can be accessed on the web at: <http://floriculture.osu.edu>. Click on Cultivar Trials and follow the links.

## The BEST of 2004

Top Overall Season Performers in our Plant Characteristic Evaluations.

The plants listed here received the highest overall season ratings (listed in order, with rankings between 5 to 4.58):

*Coleus* 'Brown Sugar Drop'  
*Coleus* 'Chocolate Drop'  
*Euphorbia* 'Diamond Frost'  
*Scaevola* 'Whirlwind Blue Velvet'  
*Ageratum* 'Artist Blue'  
*Eragrostis* 'Elliottii Wind Dancer'  
*Mecardonia* 'Gold Flake'  
*Petunia* 'Supertunia Lavender Dawn'  
*Coleus* 'Strawberry Drop'  
*Phlox* 'J.P. White'

Also scoring very high (between 4.5 and 4.42) were:

*Pentas* 'Graffiti Pink'  
*Petunia* 'Easy Wave Red'  
*Phlox* 'Intensia' series ('Lilac Rose,' 'Neon Pink,' and 'Lavender Glow')  
*Vinca* 'Titan Blush'  
*Vinca* 'Titan Burgundy.'

Please note that many other entries performed very well in the trials. See Table 2. Entries with overall average ratings of 4.0 and above would be recommended for the Columbus, Ohio, area.

### **Top Performers in the Consumer Preference Evaluations:**

In order, the Top 15 entries for the Overall Season, as rated by our Master Gardeners were:

*Scaevola* 'Whirlwind Blue Velvet'  
*Phlox* 'J.P. White'  
*Phlox* 'Intensia Lavender Glow'  
*Euphorbia* 'Diamond Frost'  
*Pentas* 'Graffiti Pink'  
*Pentas* 'Graffiti Violet'  
*Ageratum* 'Artist Blue'  
*Phlox* 'Intensia Neon Pink'  
*Angelonia* 'Angelface White'  
*Petunia* 'Supertunia Lavender Dawn'  
*Bracteantha* 'Sundaze Flame'  
*Mecardonia* 'Gold Flake'  
*Phlox* 'Intensia Lilac Rose'  
*Gaillardia* 'Arizona Sun'  
*Petunia* 'Dreams Sky Blue'

### **Top Picks by the Trial Coordinator:**

These were nonstop performers in our trials this season:

- *Ageratum* 'Artist Blue'
- *Coleus* 'Brown Sugar Drop' and 'Chocolate Drop'

- *Coleus* 'Sedona' (A very unique color and character in the landscape. This one did decline by September.)
- *Euphorbia* 'Diamond Frost' (A personal favorite. Nice light texture and was still performing in November).
- *Mecardonia* 'Gold Flake'
- *Petunia* 'Supertunia Lavender Dawn' (This one just flowered nonstop.)

### **Acknowledgments**

A big thanks goes to David Cuthbert of Darby Creek Growers, Orient, Ohio, for sowing and growing on the seeded entries for this year's trial. We would like to acknowledge the help of our excellent Annuals Team of Master Gardeners — Caye Aiello, Joyce Gravlee, Ken Kotch, Kathy Krantz, Mary Straney, Juliet Taylor, and Bev Vogeley. Their hard work and dedication to this project is truly appreciated. Thanks also to Annette Duetz, Learning Gardens Supervisor, and David Snodgrass, Greenhouse Coordinator, for their expert assistance. And we thank the following companies for their participation in this year's trials:

- Ball Seed Company
- Benary
- Fischer USA
- Panamerican Seeds
- Proven Winners
- Twyford International.

**In-Ground Annual Trial Gardens Summer 2004, The Ohio State University Learning Gardens, Columbus, Ohio.**

<b>Table 1. Consumer Preference Evaluation, 2004.</b>								
<b>Genus</b>	<b>Series</b>	<b>Variety</b>	<b>Company</b>	<b>Veg/ Seed</b>	<b>Average Rating</b>			<b>Overall Season Avg.*</b>
					<b>27-Jul</b>	<b>17-Aug</b>	<b>21-Sep</b>	
<i>Scaevola</i>	Whirlwind	Blue Velvet	Proven Winners	Veg	4.79	5.00	4.83	4.87
<i>Phlox</i>		J. P. White	Jackson & Perkins	Veg	4.36	4.88	4.33	4.52
<i>Phlox</i>	Intensia	Lavender Glow	Proven Winners	Veg	4.39	5.00	4.08	4.49
<i>Euphorbia</i>		Diamond Frost	Proven Winners	Veg	3.71	4.88	4.75	4.45
<i>Pentas</i>	Graffiti	Pink	Benary	Seed	4.07	4.50	4.75	4.44
<i>Pentas</i>	Graffiti	Violet	Benary	Seed	4.18	4.19	4.92	4.43
<i>Ageratum</i>	Artist	Blue	Proven Winners	Veg	4.14	4.38	4.75	4.42
<i>Phlox</i>	Intensia	Neon Pink	Proven Winners	Veg	4.11	4.88	4.08	4.36
<i>Angelonia</i>	Angelface	White	Proven Winners	Veg	4.36	4.38	4.33	4.36
<i>Petunia</i>	Supertunia	Lavender Dawn	Proven Winners	Veg	4.00	4.63	4.42	4.35
<i>Bracteantha</i>	Sundaze	Flame	Proven Winners	Veg	4.07	4.75	4.17	4.33
<i>Mecardonia</i>		Gold Flake	Proven Winners	Veg	4.07	4.75	4.08	4.30
<i>Phlox</i>	Intensia	Lilac Rose	Proven Winners	Veg	3.89	4.88	4.13	4.30
<i>Gaillardia</i>		Arizona Sun	Benary	Seed	4.71	4.50	3.67	4.29
<i>Petunia</i>	Dreams	Sky Blue	Pan American	Seed	3.93	4.56	4.33	4.27
<i>Ageratum</i>	Artist	Alto Blue	Proven Winners	Veg	4.39	3.94	4.42	4.25
<i>Calibrachoa</i>	Superbells	White	Proven Winners	Veg	4.32	4.63	3.75	4.23
<i>Petunia</i>	Double Cascade	Blue	Pan American	Seed	3.57	4.31	4.58	4.15
<i>Calibrachoa</i>	Superbells	Blue	Proven Winners	Veg	3.93	4.31	4.17	4.14
<i>Coleus</i>		Sedona	Proven Winners	Veg	4.29	3.81	4.25	4.12
<i>Vinca</i>	Titan	Polka Dot	Ball	Seed	4.36	4.88	3.08	4.11
<i>Vinca</i>	Titan	Lilac	Ball	Seed	4.25	4.63	3.25	4.04

**Table 1 (continued). Consumer Preference Evaluation, 2004.**

Genus	Series	Variety	Company	Veg/ Seed	Average Rating			Overall Season Avg.*
					27-Jul	17-Aug	21-Sep	
<i>Petunia</i>	Easy Wave	Red	Pan American	Seed	3.71	4.19	4.13	4.01
<i>Ageratum</i>	Artist	Purple	Proven Winners	Veg	4.00	4.06	3.96	4.01
<i>Coleus</i>		Chocolate Drip	Proven Winners	Veg	4.14	3.88	4.00	4.01
<i>Coleus</i>		Strawberry Drop	Proven Winners	Veg	4.07	4.19	3.75	4.00
<i>Coleus</i>		Brown Sugar Drop	Proven Winners	Veg	4.21	3.88	3.83	3.97
<i>Begonia</i>	Olympia Sprint	Deep Pink	Benary	Seed	2.86	4.63	4.38	3.96
<i>Vinca</i>	Titan	Blush	Ball	Seed	3.82	4.50	3.54	3.95
<i>Pelargonium</i>	Illusion/ Shady Lady	Violet Rose	Proven Winners	Veg	4.11	4.31	3.38	3.93
<i>Angelonia</i>	Angelface	Blue	Proven Winners	Veg	4.00	4.44	3.08	3.84
<i>Plectranthus</i>		Silver Shield	Pan American	Seed	4.00	3.88	3.63	3.84
<i>Vinca</i>	Titan	Burgundy	Ball	Seed	4.11	4.63	2.75	3.83
<i>Osteospermum</i>	Soprano	White	Proven Winners	Veg	3.82	4.25	3.33	3.80
<i>Petunia</i>	Double Wave (TC)	Purple	Twyford	Veg	3.46	4.13	3.79	3.79
<i>Vinca</i>	Pacifica	Halo Orchid	Pan American	Seed	3.86	4.25	3.25	3.79
<i>Pentas</i>	Graffiti	White	Benary	Seed	4.21	3.50	3.50	3.74
<i>Pentas</i>	Graffiti	Bright Red	Benary	Seed	3.36	3.56	4.29	3.74
<i>Calibrachoa</i>	Superbells	Pink	Proven Winners	Veg	3.89	3.44	3.79	3.71
<i>Pelargonium (Ivy)</i>	Holiday	Rose	Fischer	Veg	3.61	3.56	3.92	3.70
<i>Vinca</i>	First Kiss	Blush Improved	Benary	Seed	3.71	3.81	3.54	3.69
<i>Pelargonium</i>	Bulls Eye	Light Pink	Ball	Seed	3.89	4.00	3.13	3.67
<i>Argyranthemum</i>		Butterfly	Proven Winners	Veg	4.64	3.88	2.50	3.67
<i>Petunia</i>	Double Wave (TC)	White	Twyford	Veg	3.39	4.69	2.92	3.67
<i>Argyranthemum</i>		Vanilla Butterfly	Proven Winners	Veg	4.43	3.75	2.75	3.64

**Table 1 (continued). Consumer Preference Evaluation, 2004.**

Genus	Series	Variety	Company	Veg/ Seed	Average Rating			Overall Season Avg.*
					27-Jul	17-Aug	21-Sep	
<i>Scaevola</i>	Whirlwind	White	Proven Winners	Veg	3.79	4.38	2.63	3.60
<i>Pelargonium</i>	Bulls Eye	Cherry	Ball	Seed	3.68	4.38	2.50	3.52
<i>Pelargonium</i> (Zonal)		Flamingo	Fischer	Veg	3.71	3.56	3.25	3.51
<i>Pelargonium</i>	Illusion	Ornge	Proven Winners	Veg	3.36	4.25	2.83	3.48
<i>Nemesia</i>		Compact Pink Innocence	Proven Winners	Veg	3.71	3.00	3.71	3.47
<i>Petunia</i>	Double Wave (TC)	Pink	Twyford	Veg	3.43	3.94	2.92	3.43
<i>Pelargonium</i> (Ivy)	Holiday	Purple or Violet	Fischer	Veg	3.50	3.75	3.04	3.43
<i>Calibrachoa</i>	Milky Way	Light Blue	Twyford	Veg	3.57	3.25	3.33	3.38
<i>Gypsophila</i>		Festival Star	Proven Winners	Veg	3.50	2.75	3.88	3.38
<i>Pelargonium</i> (Exotic)	Graffiti	Salmon Rose	Fischer	Veg	3.71	3.56	2.83	3.37
<i>Dianthus</i>	Garden Spice	Red	Twyford	Veg	3.21	3.25	3.63	3.36
<i>Osteo- spermum</i>	Soprano	Purple	Proven Winners	Veg	4.00	3.25	2.83	3.36
<i>Portulaca</i>	Margarita	Pepper- mint	Pan American	Seed	4.00	3.69	2.33	3.34
<i>Phlox</i>	21st Century	Blue Star	Pan American	Seed	3.79	3.69	2.54	3.34
<i>Calibrachoa</i>	Superbells	Light Pink	Proven Winners	Veg	3.57	3.63	2.75	3.32
<i>Scoparia</i>		Melon- golly (TM) Blue	Proven Winners	Veg	3.82	3.88	2.08	3.26
<i>Gaura</i>	Karalee	Petite Pink	Proven Winners	Veg	2.53	3.50	3.63	3.22
<i>Petunia</i>	Double Wave (TC)	Blue Vein	Twyford	Veg	3.64	3.81	2.17	3.21
<i>Gerbera</i>	Sunburst (Pot)	Red	Twyford	Veg	3.43	2.81	3.17	3.14
<i>Petunia</i>	Dreams	Rose Picotee	Pan American	Seed	3.07	3.50	2.83	3.13
<i>Salvia</i>		Salvatore	Benary	Seed	3.36	3.25	2.79	3.13
<i>Eragrostis</i>		Elliottii Wind Dancer	Pan American	Seed	2.86	3.50	3.00	3.12

**Table 1 (continued). Consumer Preference Evaluation, 2004.**

Genus	Series	Variety	Company	Veg/ Seed	Average Rating			Overall Season Avg.*
					27-Jul	17-Aug	21-Sep	
<i>Pelargonium</i> (Ivy)		Molina 2005	Fischer	Veg	3.43	2.94	2.96	3.11
<i>Satureja</i> hybrid		Pink Sensation	Proven Winners	Veg	3.18	2.88	3.25	3.10
<i>Calibrachoa</i>	Colorful Expression	Lilac	Twyford	Veg	2.75	3.13	3.42	3.10
<i>Penstemon</i>		Lilliput Pink	Proven Winners	Veg	3.75	3.21	2.33	3.10
<i>Pelargonium</i> (Ivy)		Luna 2005	Fischer	Veg	2.96	3.13	3.04	3.04
<i>Pelargonium</i>	Illusion	Rose Pink	Proven Winners	Veg	2.75	3.69	2.67	3.04
<i>Cosmos</i>	Cosmic	Red	Benary	Seed	4.07	2.50	2.50	3.02
<i>Coreopsis</i>		Rising Sun	Pan American	Seed	2.96	3.00	3.08	3.01
<i>Pelargonium</i> (Exotic)	Graffiti	Pink	Fischer	Veg	3.36	3.06	2.54	2.99
<i>Dianthus</i>	Garden Spice	Pearl White	Twyford	Veg	3.00	2.69	3.25	2.98
<i>Pelargonium</i> (Zonal)		Avenida Fire	Fischer	Veg	3.29	2.13	3.42	2.95
<i>Osteospermum</i>	Soprano	Light Purple	Proven Winners	Veg	3.64	3.00	2.17	2.94
<i>Calibrachoa</i>	Superbells	Red	Proven Winners	Veg	3.75	3.06	2.00	2.94
<i>Pelargonium</i> (Ivy)		Tutti Frutti	Fischer	Veg	2.93	3.25	2.63	2.94
<i>Pelargonium</i> (Ivy)		Maxime	Fischer	Veg	2.50	3.63	2.63	2.92
<i>Lobelia</i>	Laguna	Compact Blue w/ Eye	Proven Winners	Veg	3.54	2.00	3.21	2.92
<i>Pelargonium</i> (Zonal)		Alba 2005	Fischer	Veg	2.61	3.06	3.08	2.92
<i>Pelargonium</i> (Ivy)		Ruby Dream	Fischer	Veg	2.68	3.13	2.88	2.90
<i>Verbena</i>		Quartz Silver	Pan American	Seed	2.96	3.31	2.38	2.88
<i>Pelargonium</i> (Zonal)		Himalaya Red	Fischer	Veg	3.18	2.50	2.92	2.87
<i>Torenia</i>	Catalina	Pink	Proven Winners	Veg	3.32	2.69	2.50	2.84
<i>Torenia</i>	Summer Wave	Amethyst	Proven Winners	Veg	3.21	2.83	2.46	2.83

**Table 1 (continued). Consumer Preference Evaluation, 2004.**

Genus	Series	Variety	Company	Veg/ Seed	Average Rating			Overall Season Avg.*
					27-Jul	17-Aug	21-Sep	
<i>Lobelia</i>	Laguna	Sky Blue	Proven Winners	Veg	4.11	1.69	2.63	2.81
<i>Pelargonium</i>	Fireworks Collection	Cherry	Proven Winners	Veg	2.71	3.19	2.50	2.80
<i>Pelargonium</i> ( <i>Ivy</i> )	Holiday	Ruby	Fischer	Veg	2.43	3.38	2.58	2.80
<i>Torenia</i>	Catalina	Purple	Proven Winners	Veg	3.21	2.88	2.25	2.78
<i>Celosia</i>	Glow	Pink	Pan American	Seed	3.43	3.38	1.42	2.74
<i>Dianthus</i>	Dynasty	Rose Lace	Ball	Seed	3.25	2.50	2.42	2.72
<i>Pelargonium</i> ( <i>Ivy</i> )		Flair	Fischer	Veg	2.46	2.88	2.83	2.72
<i>Pelargonium</i>	Illusion/ Shady Lady	Cherry Rose	Proven Winners	Veg	2.50	3.06	2.50	2.69
<i>Torenia</i>	Catalina	Blue	Proven Winners	Veg	2.54	2.94	2.50	2.66
<i>Pelargonium</i> ( <i>Zonal</i> )	Rocky Mountain	Salmon Rose	Fischer	Veg	2.29	2.00	3.67	2.65
<i>Vinca</i>	First Kiss	Blueberry	Benary	Seed	3.71	3.38	0.75	2.61
<i>Dianthus</i>	Garden Spice	Baby Pink	Twyford	Veg	2.57	2.19	3.00	2.59
<i>Rudbeckia</i>		Maya	Benary	Seed	4.71	2.88	dead	2.53
<i>Nemesia</i>	Sunsatia	Coconut	Proven Winners	Veg	3.54	2.50	1.54	2.53
<i>Nemesia</i>	Sunsatia	Peach	Proven Winners	Veg	3.25	2.56	1.71	2.51
<i>Brachyscome</i>		Blue Zephyr	Proven Winners	Veg	2.29	2.50	2.58	2.46
<i>Pelargonium</i> ( <i>Zonal</i> )		Dolce Vita 2004	Fischer	Veg	2.29	2.00	2.92	2.40
<i>Oenothera</i>	Sunsatia	Lemon Drop	Proven Winners	Veg	3.04	2.19	1.88	2.37
<i>Pelargonium</i> ( <i>Zonal</i> )		Tango Fire	Fischer	Veg	2.43	1.31	3.17	2.30
<i>Pelargonium</i> ( <i>Exotic</i> )	Graffiti	Fire	Fischer	Veg	1.89	2.56	2.13	2.19
<i>Calibrachoa</i>	Colorful Expression	Cherry Rose	Twyford	Veg	2.21	2.13	2.17	2.17
<i>Pelargonium</i> ( <i>Zonal</i> )	Rocky Mountain	Dark Red	Fischer	Veg	1.93	1.69	2.50	2.04
<i>Calibrachoa</i>	Colorful Expression	Blue	Twyford	Veg	2.11	2.19	1.58	1.96

**Table 1 (continued). Consumer Preference Evaluation, 2004.**

Genus	Series	Variety	Company	Veg/ Seed	Average Rating			Overall Season Avg.*
					27-Jul	17-Aug	21-Sep	
<i>Gerbera</i>	Sunburst (Pot)	Prange	Twyford	Veg	2.64	1.13	2.00	1.92
<i>Gerbera</i>	Sunburst (Pot)	Snow White	Twyford	Veg	2.50	1.25	1.50	1.75
<i>Nemesia</i>	Sunsatia	Lemon	Proven Winners	Veg	1.64	1.31	dead	0.98
<i>Nemesia</i>	Sunsatia	Cranberry	Proven Winners	Veg	1.25	0.38	dead	0.54
<i>Nemesia</i>	Sunsatia	Banana	Proven Winners	Veg	1.29	dead	dead	0.43
<i>Delphinium</i>	Summer	Stars	Benary	Seed	0.29	dead	dead	0.29

\* Based on average of July, August, and September ratings performed by our seven-member team of Master Gardeners.

Ranked in decreasing order of Overall season average.

Rating scale: 1 to 5 (1 = Poor; 5 = Excellent).

**In-Ground Annual Trial Gardens, Summer 2004, The Ohio State University Learning Gardens, Columbus, Ohio.**

<b>Table 2. Evaluation of Plant Characteristics, 2004 Annuals, Overall Rating, 2004.</b>							
<b>Genus</b>	<b>Series</b>	<b>Variety</b>	<b>Company</b>	<b>Overall Rating 19-jul</b>	<b>Overall Rating 17-aug</b>	<b>Overall Rating 16-sep</b>	<b>Overall Season Average</b>
<i>Coleus</i>		Brown Sugar Drop	Proven Winners	5.00	5.00	5.00	5.00
<i>Coleus</i>		Chocolate Drop	Proven Winners	5.00	5.00	5.00	5.00
<i>Euphorbia</i>		Diamond Frost	Proven Winners	5.00	5.00	5.00	5.00
<i>Scaevola</i>	Whirlwind	Blue Velvet	Proven Winners	5.00	5.00	5.00	5.00
<i>Ageratum</i>	Artist	Blue	Proven Winners	5.00	5.00	4.75	4.92
<i>Eragrostis</i>		Elliottii Wind Dancer	Pan American	5.00	4.50	5.00	4.83
<i>Mecardonia</i>		Gold Flake	Proven Winners	4.50	5.00	5.00	4.83
<i>Petunia</i>	Supertunia	Lavender Dawn	Proven Winners	4.50	5.00	4.75	4.75
<i>Coleus</i>		Strawberry Drop	Proven Winners	4.50	4.25	5.00	4.58
<i>Phlox</i>		J. P. White	Jackson & Perkins	4.50	5.00	4.25	4.58
<i>Pentas</i>	Graffiti	Pink	Benary	4.25	4.50	4.75	4.50
<i>Petunia</i>	Easy Wave	Red	Pan American	4.25	4.25	5.00	4.50
<i>Phlox</i>	Intensia	Lilac Rose	Proven Winners	4.50	5.00	4.00	4.50
<i>Phlox</i>	Intensia	Neon Pink	Proven Winners	4.50	5.00	4.00	4.50
<i>Phlox</i>	Intensia	Lavender Glow	Proven Winners	4.50	5.00	3.75	4.42
<i>Vinca</i>	Titan	Blush	Ball	4.25	4.50	4.50	4.42
<i>Vinca</i>	Titan	Burgundy	Ball	4.50	5.00	3.75	4.42
<i>Calibrachoa</i>	Superbells	Pink	Proven Winners	4.75	4.25	4.00	4.33
<i>Coleus</i>		Sedona	Proven Winners	5.00	4.25	3.75	4.33
<i>Pelargonium</i>	Illusion	Orange	Proven Winners	5.00	4.50	3.50	4.33
<i>Plectranthus</i>		Silver Shield	Pan American	5.00	5.00	3.00	4.33

**Table 2 (continued). Evaluation of Plant Characteristics, 2004 Annuals, Overall Rating, 2004.**

<b>Genus</b>	<b>Series</b>	<b>Variety</b>	<b>Company</b>	<b>Overall Rating 19-jul</b>	<b>Overall Rating 17-aug</b>	<b>Overall Rating 16-sep</b>	<b>Overall Season Average</b>
<i>Bracteantha</i>	Sundaze	Flame	Proven Winners	4.50	4.50	3.75	4.25
<i>Pelargonium</i>	Bulls Eye	Cherry	Ball	4.25	4.50	4.00	4.25
<i>Pentas</i>	Graffiti	Violet	Benary	4.00	3.75	5.00	4.25
<i>Petunia</i>	Dreams	Sky Blue	Pan American	4.25	4.75	3.75	4.25
<i>Vinca</i>	Titan	Lilac	Ball	4.25	4.50	4.00	4.25
<i>Vinca</i>	Titan	Polka Dot	Ball	4.25	4.50	4.00	4.25
<i>Ageratum</i>	Artist	Alto Blue	Proven Winners	4.25	4.25	4.00	4.17
<i>Argyranthemum</i>		Vanilla Butterfly	Proven Winners	5.00	4.50	3.00	4.17
<i>Calibrachoa</i>	Superbells	Blue	Proven Winners	4.25	4.25	4.00	4.17
<i>Calibrachoa</i>	Superbells	White	Proven Winners	4.50	5.00	3.00	4.17
<i>Ageratum</i>	Artist	Purple	Proven Winners	4.50	4.25	3.50	4.08
<i>Pelargonium</i>	Bulls Eye	Light Pink	Ball	4.25	4.00	4.00	4.08
<i>Pelargonium</i>	Illusion/ Shady Lady	Violet Rose	Proven Winners	4.50	4.25	3.50	4.08
<i>Scoparia</i>		Melongolly (TM) Blue	Proven Winners	4.75	4.50	3.00	4.08
<i>Vinca</i>	Pacifica	Halo Orchid	Pan American	4.00	4.00	4.25	4.08
<i>Gaillardia</i>		Arizona Sun	Benary	4.50	4.00	3.50	4.00
<i>Pelargonium (Exotic)</i>	Graffiti	Salmon Rose	Fischer	4.00	4.25	3.75	4.00
<i>Petunia</i>	Double Wave (TC)	White	Twyford	3.75	4.75	3.25	3.92
<i>Vinca</i>	First Kiss	Blush Improved	Benary	4.00	4.25	3.50	3.92
<i>Dianthus</i>	Garden Spice	Red	Twyford	4.25	4.00	3.25	3.83
<i>Nemesia</i>		Compact Pink Innocence	Proven Winners	4.25	3.50	3.75	3.83
<i>Begonia</i>	Olympia Sprint	Deep Pink	Benary	3.75	4.00	3.50	3.75
<i>Angelonia</i>	Angelface	White	Proven Winners	4.00	3.50	3.50	3.67

**Table 2 (continued). Evaluation of Plant Characteristics, 2004 Annuals, Overall Rating, 2004.**

<b>Genus</b>	<b>Series</b>	<b>Variety</b>	<b>Company</b>	<b>Overall Rating 19-jul</b>	<b>Overall Rating 17-aug</b>	<b>Overall Rating 16-sep</b>	<b>Overall Season Average</b>
<i>Gypsophila</i>		Festival Star	Proven Winners	4.50	3.50	3.00	3.67
<i>Pelargonium (Ivy)</i>	Holiday	Rose	Fischer	3.25	4.25	3.50	3.67
<i>Pentas</i>	Graffiti	Bright Red	Benary	3.00	3.25	4.75	3.67
<i>Petunia</i>	Double Cascade	Blue	Pan American	3.25	4.25	3.50	3.67
<i>Petunia</i>	Dreams	Rose Picotee	Pan American	4.25	4.00	2.75	3.67
<i>Calibrachoa</i>	Colorful Expression	Lilac	Twyford	3.25	4.00	3.50	3.58
<i>Salvia</i>		Salvatore	Benary	3.75	4.00	3.00	3.58
<i>Angelonia</i>	Angelface	Blue	Proven Winners	4.25	3.75	2.50	3.50
<i>Argyranthemum</i>		Butterfly	Proven Winners	4.00	4.00	2.50	3.50
<i>Calibrachoa</i>	Milky Way	Light Blue	Twyford	5.00	3.00	2.50	3.50
<i>Osteospermum</i>	Soprano	White	Proven Winners		4.25	2.75	3.50
<i>Pelargonium (Zonal)</i>		Flamingo	Fischer	3.75	3.75	3.00	3.50
<i>Scaevola</i>	Whirlwind	White	Proven Winners	4.25	4.00	2.25	3.50
<i>Satureja hybrid</i>		Pink Sensation	Proven Winners	4.00	3.00	3.50	3.50
<i>Calibrachoa</i>	Superbells	Light Pink	Proven Winners	4.25	3.50	2.50	3.42
<i>Pelargonium</i>	Fireworks Collection	Cherry	Proven Winners	3.00	4.25	3.00	3.42
<i>Pelargonium (Ivy)</i>		Molina 2005	Fischer	3.50	3.75	3.00	3.42
<i>Petunia</i>	Double Wave (TC)	Purple	Twyford	3.25	4.00	3.00	3.42
<i>Portulaca</i>	Margarita	Peppermint	Pan American	4.00	3.75	2.50	3.42
<i>Pelargonium</i>	Illusion	Rose Pink	Proven Winners	3.50	3.75	2.85	3.37
<i>Penstemon</i>		Lilliput Pink	Proven Winners	4.25	3.85	2.00	3.37
<i>Pelargonium (Ivy)</i>		Maxime	Fischer	3.00	4.00	3.00	3.33
<i>Pelargonium (Zonal)</i>		Himalaya Red	Fischer	3.50	3.50	3.00	3.33

**Table 2 (continued). Evaluation of Plant Characteristics, 2004 Annuals, Overall Rating, 2004.**

<b>Genus</b>	<b>Series</b>	<b>Variety</b>	<b>Company</b>	<b>Overall Rating 19-jul</b>	<b>Overall Rating 17-aug</b>	<b>Overall Rating 16-sep</b>	<b>Overall Season Average</b>
<i>Petunia</i>	Double Wave (TC)	Pink	Twyford	3.00	3.75	3.00	3.25
<i>Pelargonium</i>	Illusion/ Shady Lady	Cherry Rose	Proven Winners	3.00	3.75	2.75	3.17
<i>Pelargonium (Ivy)</i>		Tutti Frutti	Fischer	2.75	4.00	2.75	3.17
<i>Pelargonium (Zonal)</i>		Avenida Fire	Fischer	3.00	2.50	4.00	3.17
<i>Torenia</i>	Catalina	Blue	Proven Winners	3.25	3.25	3.00	3.17
<i>Torenia</i>	Catalina	Pink	Proven Winners	3.25	3.25	3.00	3.17
<i>Torenia</i>	Summer Wave	Amethyst	Proven Winners	3.75	3.00	2.75	3.17
<i>Gerbera</i>	Sunburst (Pot)	Red	Twyford	2.75	3.25	3.25	3.08
<i>Pelargonium (Exotic)</i>	Graffiti	Pink	Fischer	3.50	2.75	3.00	3.08
<i>Pelargonium (Ivy)</i>		Ruby Dream	Fischer	3.00	3.50	2.75	3.08
<i>Torenia</i>	Catalina	Purple	Proven Winners	3.75	3.00	2.50	3.08
<i>Verbena</i>		Quartz Silver	Pan American	3.75	3.25	2.25	3.08
<i>Dianthus</i>	Dynasty	Rose Lace	Ball	3.75	2.75	2.50	3.00
<i>Pelargonium (Ivy)</i>	Holiday	Purple or Violet	Fischer	3.25	3.00	2.75	3.00
<i>Pelargonium (Zonal)</i>		Alba 2005	Fischer	2.25	3.75	3.00	3.00
<i>Celosia</i>	Glow	Pink	Pan American	3.75	3.00	2.00	2.92
<i>Pentas</i>	Graffiti	White	Benary	4.00	2.50	2.25	2.92
<i>Gaura</i>	Karalee	Petite Pink	Proven Winners	2.75	2.50	3.25	2.83
<i>Nemesia</i>	Sunsatia	Coconut	Proven Winners	4.00	2.50	2.00	2.83
<i>Nemesia</i>	Sunsatia	Peach	Proven Winners	3.25	3.25	2.00	2.83
<i>Pelargonium (Zonal)</i>	Rocky Mountain	Salmon Rose	Fischer	2.75	2.50	3.25	2.83
<i>Calibrachoa</i>	Superbells	Red	Proven Winners	4.00	2.25	2.00	2.75

**Table 2 (continued). Evaluation of Plant Characteristics, 2004 Annuals, Overall Rating, 2004.**

<b>Genus</b>	<b>Series</b>	<b>Variety</b>	<b>Company</b>	<b>Overall Rating 19-jul</b>	<b>Overall Rating 17-aug</b>	<b>Overall Rating 16-sep</b>	<b>Overall Season Average</b>
<i>Dianthus</i>	Garden Spice	Pearl White	Twyford	2.75	2.75	2.75	2.75
<i>Pelargonium (Ivy)</i>	Holiday	Ruby	Fischer	2.50	3.00	2.75	2.75
<i>Pelargonium (Ivy)</i>		Flair	Fischer	2.50	3.00	2.75	2.75
<i>Coreopsis</i>		Rising Sun	Pan American	2.75	2.50	2.75	2.67
<i>Dianthus</i>	Garden Spice	Baby Pink	Twyford	2.50	2.75	2.75	2.67
<i>Phlox</i>	21st Century	Blue Star	Pan American	2.75	2.75	2.50	2.67
<i>Vinca</i>	First Kiss	Blueberry	Benary	4.25	3.50	dying back	2.58
<i>Pelargonium (Exotic)</i>	Graffiti	Fire	Fischer	2.00	2.75	2.75	2.50
<i>Pelargonium (Zonal)</i>		Dolce Vita 2004	Fischer	2.75	2.00	2.75	2.50
<i>Pelargonium (Zonal)</i>		Tango Fire	Fischer	2.50	1.75	3.25	2.50
<i>Petunia</i>	Double Wave (TC)	Blue Vein	Twyford	3.50	2.75	1.25	2.50
<i>Lobelia</i>	Laguna	Sky Blue	Proven Winners	4.25	2.75	dying back	2.33
<i>Pelargonium (Ivy)</i>		Luna 2005	Fischer	2.00	2.50	2.50	2.33
<i>Pelargonium (Zonal)</i>	Rocky Mountain	Dark Red	Fischer	2.50	2.25	2.25	2.33
<i>Cosmos</i>	Cosmic	Red	Benary	4.25	2.50	poor location	2.25
<i>Oenothera</i>	Sunsatia	Lemon Drop	Proven Winners	3.00	1.75	2.00	2.25
<i>Osteospermum</i>	Soprano	Light Purple	Proven Winners		2.75	1.50	2.13
<i>Lobelia</i>	Laguna	Compact Blue w/ Eye	Proven Winners	4.25	2.00	dying back	2.08
<i>Brachyscome</i>		Blue Zephyr	Proven Winners	2.00	2.00	2.00	2.00
<i>Osteospermum</i>	Soprano	Purple	Proven Winners		1.75	2.00	1.88
<i>Rudbeckia</i>		Maya	Benary	3.00	2.50	dead	1.83

**Table 2 (continued). Evaluation of Plant Characteristics, 2004 Annuals, Overall Rating, 2004.**

<b>Genus</b>	<b>Series</b>	<b>Variety</b>	<b>Company</b>	<b>Overall Rating 19-jul</b>	<b>Overall Rating 17-aug</b>	<b>Overall Rating 16-sep</b>	<b>Overall Season Average</b>
<i>Calibrachoa</i>	Colorful Expression	Blue	Twyford	2.50	1.75	1.00	1.75
<i>Calibrachoa</i>	Colorful Expression	Cherry Rose	Twyford	2.00	1.50	1.50	1.67
<i>Nemesia</i>	Sunsatia	Lemon	Proven Winners	1.75	1.75	dead	1.17
<i>Gerbera</i>	Sunburst (Pot)	Orange	Twyford	1.75	1.50	declined	1.08
<i>Gerbera</i>	Sunburst (Pot)	Snow White	Twyford	1.50	1.50	declined	1.00
<i>Nemesia</i>	Sunsatia	Cranberry	Proven Winners	1.50	0.50	dead	0.67
<i>Nemesia</i>	Sunsatia	Banana	Proven Winners	1.00	dead	dead	0.33
<i>Delphinium</i>	Summer	Stars	Benary	died early	in season		

\* Ratings performed by Trials Leader and Trials Coordinator.  
 Rating Scale: 1 to 5 (1 = Poor; 5 = Excellent).

