

# 2019 Spring-Summer Ornamentals Trial Top Performers

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# 2019 Spring-Summer Ornamentals Trial Top Performers

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# 2019 Spring-Summer Ornamentals Trial Top Performers

## ABSTRACT

An ornamental trial to evaluate 130 entries was conducted in spring/summer 2019 in central Mississippi. Most of the trial entries were conducted in ground except for 21 entries trialed in 30 cm hanging baskets and five entries trialed in 40 cm containers. Thirteen entries were trialed in the shade. Additionally, eight entries were herbs or vegetables. While most of the entries were annuals, we included 46 perennials in the trial garden. All entries were grown from seed or rooted plugs. Some perennials were supplied in 16 cm container pots as finished plant material. The hanging basket and container plants were potted up on April 2. The annuals and edible entries were transplanted on May 17 into mounded rows covered in plastic mulch and irrigated with drip irrigation in a field. The perennial trial was planted during the last week of June into raised boxes. Plants were rated (1–5, with 1 being the lowest score) based on flower coverage, leaf health, and landscape impact. Each cultivar was rated once every 2 weeks throughout the season. Plants were fertilized, weeded, and sprayed as necessary. While the annuals were not deadheaded, the perennials were as needed. Thirteen cultivars scored above a rating of 4 and were top-performing plants for the season.

## INTRODUCTION

Plant performance is highly influenced by environmental factors. Regional trials provide useful information to commercial producers and plant breeders to aid plant selection of annuals and perennials. Additionally, this trial serves as a resource for horticultural profes-

sionals, educators, and home gardeners in Mississippi and surrounding areas in the Southeast. This ornamental trial was conducted to evaluate the performance of a wide variety of bedding and garden plants in central Mississippi.

## METHODS AND MATERIALS

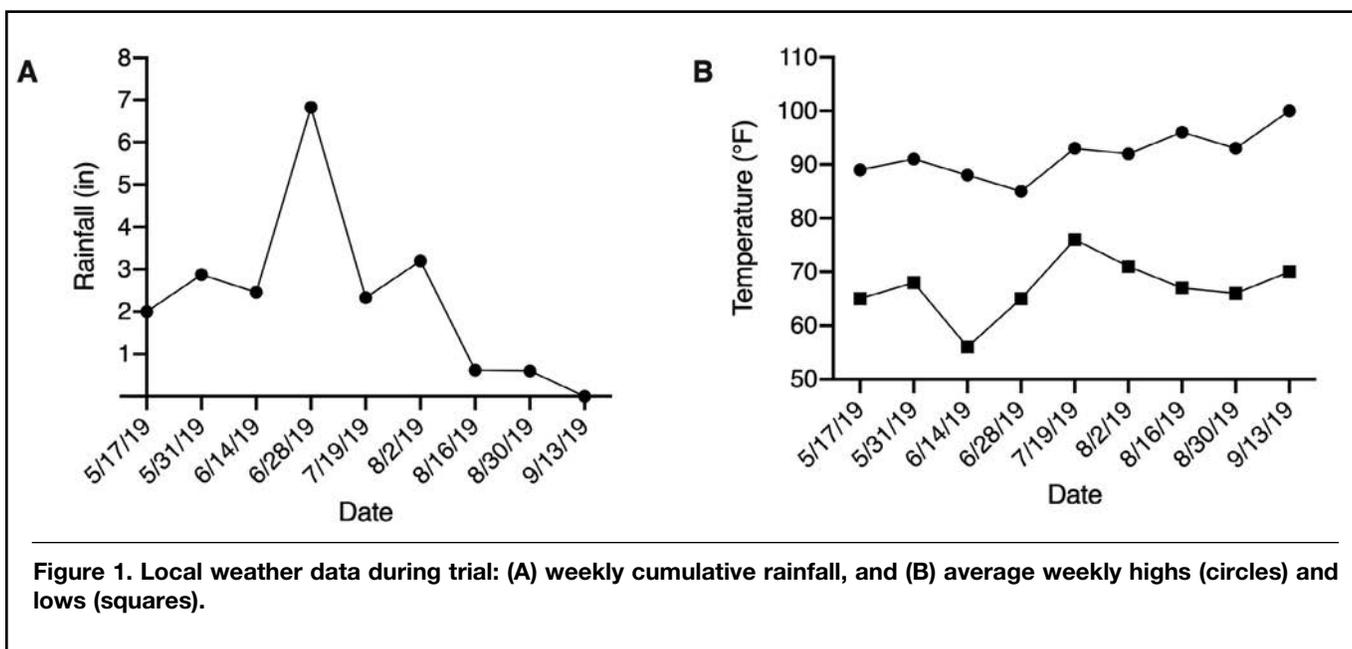
The ornamental trial of 130 cultivars was conducted at the Truck Crops Branch Experiment Station in Crystal Springs, Mississippi (USDA Zone 8b). All entries that were supplied from Plants Nouveau, Proven Winners, and Walter's Gardens were supplied as rooted plugs. Entries from Ball Horticultural Company were supplied as either seeds or rooted plugs, depending on the cultivar. Sowing dates were cultivar specific. Seeds were sown in 72-cell plug trays filled with soilless media for seedlings (Fafard Germinating Mix, Fafard Inc.). The germination dates were based on recommended production timelines. Plants requiring a longer production were sown in January, while other entries with a short production were sown in March. All plants, except for container and hanging basket trial entries, were transplanted into 9 cm containers filled with soilless growing medium (Fafard no. 3, Fafard Inc.) and grown according to grower recommendations. Container-trial entries were transplanted from the plug stage directly to 30 cm hanging baskets or 40 cm containers containing soilless growing medium (Fafard no. 3, Fafard Inc.) on April 2. The field was amended with fertilizer based on a soil test of the field. Trial planting began on May 17, 2019. The annual and edible entries were planted in unreplicated plots. Four to eight plants per cultivar were planted in each plot, depending on growth habit, into

**Table 1. Rating scale for trial evaluations.**

Score	Description
5	Excellent – 90% +
4	Good – 75% +
3	Fair – 50+
2	Poor – 25% +
1	Unacceptable – <25%

beds covered with plastic mulch. The perennials were planted in 20-cm-tall raised boxes. After planting, perennial beds were mulched with 2–3 inches of pine bark mulch. Irrigation was supplied through drip tape as needed. No herbicides were applied; weeds were pulled manually. Insecticides/fungicides were applied sparingly on an as-needed basis.

Semimonthly ratings were based on a 1–5 scale, with 5 as the best. Criteria for the ratings included flower coverage, leaf health, and landscape impact. Ratings correlated with percentages. For example, a flower coverage rating of 5 indicates that at least 90% of the plants terminal buds were in flower. A leaf health rating of 5 would indicate that at least 90% of the foliage is free of disease symptoms. Ratings were based on trial criteria per cultivar and not comparisons between cultivars. (Table 1.) Local weather data was collected during the trial (Figure 1).



## RESULTS AND DISCUSSION

Many of the entries performed well. A total of 58 entries (43%) received a rating of at least 3, and 14 entries received a rating of at least a 4 (10%). Over 22% of the entries received an overall score above 4, and 81% of entries received a 3 or more. The top performers were divided into three categories: annuals (Table 2), baskets/containers (Table 3), edibles (Table 4), shade plants (Table 5), and perennials (Table 6). A full list of plant performance based on the rating criteria, is also included (Table 7).

Some of the highest scoring sun-loving annuals were *Solenostemon* ColorBlaze® Wicked Witch™ and Wicked Hot™. Wicked Hot developed flowers by July 19. Wicked Witch produced only one flower spike by August 2. *Solenostemon* with little to no flowering is typically desirable in the landscape and results in better overall appearance throughout the season. *Ipomoea* Proven Accents® Sweet Caroline Red Hawk™ also scored well throughout the season and was impacted by deer only at the end of the season (Figure 2A-C).

*Petunia* breeding has improved petunia heat tolerance in summer. Additionally, plants are more vigorous and persist into the extreme heat of Mississippi summers. Top petunia cultivars were (in order of rating) Supertunia® Mini Vista Indigo Improved, Supertunia® Vista Snowdrift, ColorRush White, and Wave® Carmine Velour (Figure 2D-G).

Other annual plant highlights included *Zinnia* Zesty Scarlet. Their large flowers and disease-resistant foliage was very attractive. This cultivar received an overall score of 3.5.

Finally, one of the most surprising entries was *Helianthus* Suncredible™ Yellow. Most *Helianthus* senesce shortly after flowering, but this cultivar continued to flower throughout the season. It also has a highly branched plant architecture that created a mounding shape in the landscape (Figure 2H).

Four of the top-performing hanging basket and container plants were *Colocasias*: ‘Dragon Heart Gigante’ (Figure 3A), ‘Maximus Gigante’ (Figure 3B), ‘Tea Party,’ and ‘Black Sapphire Gecko.’ They established quickly in containers and grew quickly. As the season progressed, it became apparent they would have benefited from being transplanted into a larger container where the roots would have had more space. Among the hanging basket entries, *Scaevola* Whirl-

wind® Blue Improved and *Portulaca* Mojave® Red Improved did extremely well in the trial, receiving an overall rating of 3.8 and 3.2, respectively (Figure 3C, D).

We had several edible entries in the garden this year. Many of them suffered deer damage, but the two *Ocimum* entries did not. *Ocimum* ‘Everleaf Emerald Towers’ and Newton were vigorous and free of leaf diseases throughout the trial. ‘Everleaf Emerald Towers’ developed fewer flowers later in the season than Newton and had an attractive upright habit (Figure 4A, B).

Many of the shade-loving plants also did very well. *Solenstemon* Heartbreaker earned an overall score of 4. It never grew taller than 12 inches. That may have been due to the deep shade it was planted in, but they were uniform, compact and attractive in the landscape. *Caladium* Painted Frog™ ‘Poison Dart Frog’ also performed very well but did take extra time to get established before new growth was added. Their red and green leaves did not stand out as much as other *Caladiums*, but they did produce many leaves throughout the season (Figure 5A, B).

Impatiens are a common shade-loving annual. The impatiens that received the highest overall scores were Beacon™ Bright Red and Beacon™ White (Figure 5C, D). Generally, they did not suffer from disease. However, the Beacon series did have poor germination, which may have been related to shipping issues earlier in the season. Also, there were some plants with unusual growth patterns where they developed tall stems, smaller leaves, and fewer flowers (Figure 6).

The perennial trial had the highest percentage of plants with an overall score of 4 or above. One of the characteristics of interest in perennials is flowering time. Many of the cultivars had extended flowering throughout the season. Deadheading was done as needed, which seemed to stimulate more flowers in many of the entries. *Salvia* Unplugged™ So Blue™ received an overall score of 4.5 (Figure 7A). While this is typically sold as an annual in cooler climates, it bloomed continually throughout the season with large, vivid blue flowers. No disease issues were observed, and it was never deadheaded. *Salvia* Rockin’® Blue Suede Shoes™ had uneven growth between individual plants. The reason for this uneven growth is unclear and may be due to plug production issues during propagation (Figure 8).

*Gaillardia* Heat it Up™ Yellow and Scarlet both performed extremely well. They bloomed continually without the need to deadhead (Figure 7B, C). The plants also grew quickly in a short period of time. *Colocasias* ‘Dragon Heart Gigante’ (Figure 7D), ‘Maximus Gigante’ (Figure 7E), ‘Black Sapphire Gecko,’ and ‘Tea Party’ also performed very well. They grew very quickly and were attractive in the garden. There was some minor burning of the leaves during the heat of the summer. It may be ideal to plant them in a location with some afternoon shade. The *Hibiscus* Summerific® Evening Rose scored 4 during the trial, exhibiting continual bloom. The dark foliage contrasted with the pink flowers (Figure 7F).

*Lantana* typically performs very well in the trial garden. Lucky™ Peach and Luscious® Goldengate™ were no exception. Lucky Peach had a uniform, compact habit (Figure 7G), while Luscious Goldengate was more vigorous and less tidy.

Two *Verbenas* to were entered into the trial: Superbena Sparkling® Amethyst Improved and Sparkling® Rosé. Sparkling Amethyst Improved scored a rating of 4 (Figure 7H). Typically, *Verbena* struggle during the heat of Mississippi summers but improve as temperatures drop in the fall. This plant thrived throughout the season. Interestingly, Sparkling Rosé, which belongs to

the same series as Amethyst, received only a score of 2 and had many issues despite being planted beside Amethyst.

*Caryopteris* ‘Gold Crest’ had attractive yellow leaves with contrasting blue flowers in the late summer (September). The leaves did bleach slightly during the hottest part of the summer, but it still continued to grow. We increased irrigation frequency, and it recovered (Figure 7I).

*Dianthus* Rockin™ series also performed well. Each cultivar in the series bloomed throughout the season, but spent flower stalks were removed to the base of the plant. Rockin™ Purple (Figure 7J), Rockin™ Rose, and Rockin™ Pink Magic produced a heavy load of flowers.

*Lavandula* ‘Annet’ started blooming at the end of August. Unlike many lavender cultivars that have been trialed at this location, it had no diseases during the trial period and bloomed prolifically (Figure 9).

Finally, some plants may have been impacted by production or other environmental issues that limited performance. The *Pentas* trial entries were supplied as seed and several months elapsed before they grew to a substantial plug size, despite being sown in January. If they had been supplied as plugs, they would likely have grown larger during the trial period and received higher scores.

**Table 2. Top-performing annuals.**

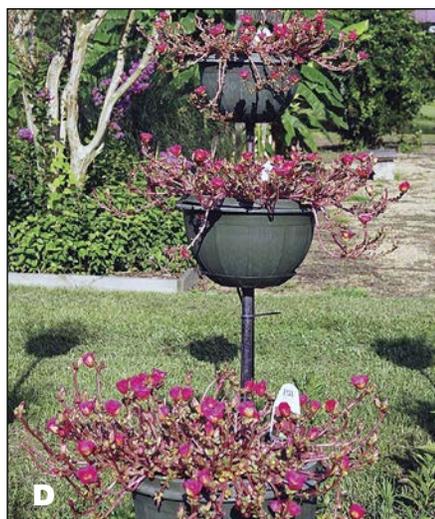
Rank	Cultivar	Company	Overall score
1	<i>Solenostemon</i> ColorBlaze® Wicked Witch™	Proven Winners	4.7
2	<i>Solenostemon</i> ColorBlaze® Wicked Hot™	Proven Winners	4.3
3	<i>Ipomoea</i> Sweet Caroline Red Hawk	Proven Winners	4.0
4	<i>Petunia</i> Supertunia® Mini Vista Indigo Improved	Proven Winners	3.9
5	<i>Petunia</i> Supertunia Vista® Snowdrift™	Proven Winners	3.9
6	<i>Petunia</i> ColorRush™ White	Ball FloraPlant	3.8
7	<i>Petunia</i> Wave® Carmine Velour	Ball Premier Liner	3.7
8	<i>Zinnia</i> Zesty™ Scarlet	Ball Ingenuity	3.5
9	<i>Angelonia</i> Serenita® White	Ball Premier Liner	3.4
10	<i>Helianthus</i> Suncredible™ yellow	Proven Winners	3.3



Figure 2. Top-performing annuals in 2019: (A) *Solenostemon* ColorBlaze® Wicked Witch™, July 19, overall score 4.7; (B) *Solenostemon* ColorBlaze® Wicked Hot™, June 28, overall score 4.3; (C) *Ipomoea* Proven Accents® Sweet Caroline Red Hawk™, June 28, overall score 4; (D) *Petunia* Supertunia® Mini Vista Indigo Improved, June 28, overall score 3.9; (E) *Petunia* Supertunia® Vista Snowdrift, June 28, overall score 3.9; (F) *Petunia* ColorRush™ White, June 28, overall score 3.8; (G) *Petunia* Wave® Carmine Velour, June 28, overall score 3.7; and (H) *Helianthus* Suncredible™ Yellow, June 28, overall score 3.3.

**Table 3. Top-performing baskets and container entries.**

Rank	Cultivar	Company	Overall score
1	<i>Colocasia</i> 'Dragon Heart Gigante'	Plants Nouveau	4.0
2	<i>Colocasia</i> 'Maximus Gigante'	Plants Nouveau	3.9
3	<i>Scaevola</i> Whirlwind® Blue Improved	Proven Winners	3.8
4	<i>Colocasia</i> 'Tea Party'	Plants Nouveau	3.6
5	<i>Colocasia</i> 'Black Sapphire Gecko'	Plants Nouveau	3.5
6	<i>Portulaca</i> Mojave® Red Improved	Proven Winners	3.2



**Figure 3. Top-performing basket and container entries in 2019: (A) *Colocasia* 'Dragon Heart Gigante,' June 14, overall score 4; (B) *Colocasia* 'Maximus Gigante,' June 14, overall score 3.9; (C) *Scaevola* Whirlwind® Blue Improved, June 28, overall score 3.8; and (D) *Portulaca* Mojave® Red Improved, July 19, overall score 3.2.**

Table 4. Top-performing edibles.

Rank	Cultivar	Company	Overall score
1	<i>Ocimum</i> Everleaf Emerald Towers	PanAmerican Seed	4.3
2	<i>Ocimum</i> Newton	PanAmerican Seed	3.8

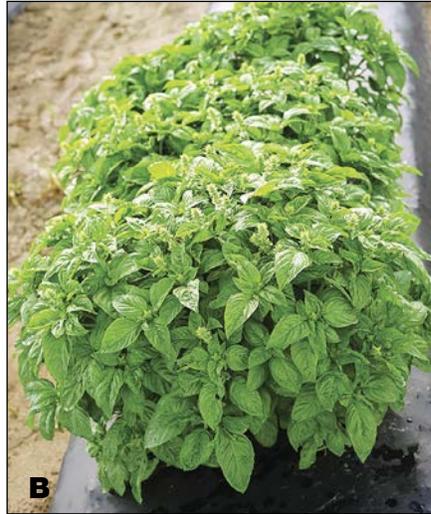


Figure 4. Top-performing edibles in 2019: (A) *Ocimum* 'Everleaf Emerald Towers,' June 14, overall score 4.3; and (B) *Ocimum* Newton, June 14, overall score 3.8.

Table 5. Top-performing shade plants.

Rank	Cultivar	Company	Overall score
1	<i>Solenostemon</i> Heartbreaker	Ball FloraPlant	4.0
2	<i>Caladium</i> Painted Frog™ 'Poison Dart Frog'	Plants Nouveau	3.8
3	<i>Impatiens</i> Beacon™ Bright Red	PanAmerican Seed	3.2
4	<i>Impatiens</i> Beacon™ White	PanAmerican Seed	3.0

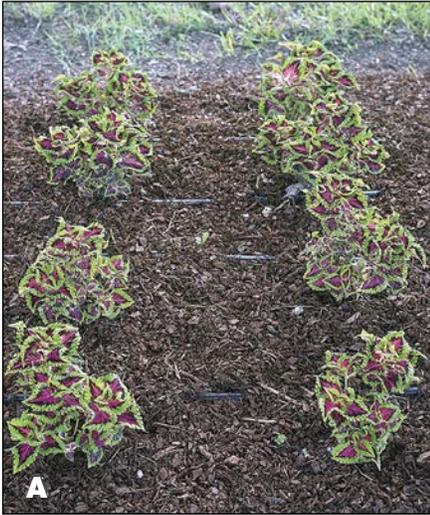


Figure 5. Top-performing shade plants in 2019: (A) *Solenostemon* Heartbreaker, July 19, overall score 4; (B) *Caladium* Painted Frog™ 'Poison Dart Frog,' August 2, overall score 3.8; (C) *Impatiens* Beacon™ Bright Red, August 2, overall score 3.2; and (D) *Impatiens* Beacon™ White, August 2, overall score 3.



Figure 6. Unusual growth of *Impatiens* Beacon™ White.

Table 6. Top-performing perennials.

Rank	Cultivar	Company	Overall score
1	<i>Salvia</i> Unplugged™ So Blue™	Proven Winners	4.5
2	<i>Gaillardia</i> Heat it Up™ Yellow	Proven Winners	4.2
3	<i>Colocasia</i> Dragon Heart Gigante	Plants Nouveau	4.1
4	<i>Colocasia</i> Maximus Gigante	Plants Nouveau	4.0
5	<i>Hibiscus</i> Summerific® Evening Rose	Proven Winners	4.0
6	<i>Lantana</i> Lucky™ Peach	Proven Winners	4.0
7	<i>Gaillardia</i> Heat It Up™ Scarlet	Proven Winners	4.0
8	<i>Verbena</i> Superbena Sparkling® Amethyst Improved	Proven Winners	4.0
9	<i>Caryopteris</i> Gold Crest	Darwin Perennials	3.9
10	<i>Dianthus</i> Rockin'™ Purple	Ball Premier Line	3.9
11	<i>Lantana</i> Lucious® Goldengate™	Proven Winners	3.9
12	<i>Colocasia</i> Black Sapphire Gecko	Plants Nouveau	3.8
13	<i>Colocasia</i> Tea Party	Plants Nouveau	3.8
14	<i>Dianthus</i> Rockin'™ Rose	Ball Premier Line	3.7
15	<i>Dianthus</i> Rockin'™ Pink Magic	Ball Premier Line	3.7



Figure 7. Top-performing perennials in 2019: (A) *Salvia* Unplugged™ So Blue™, September 13, overall score 4.5; (B) *Gaillardia* Heat It Up™ Yellow, September 13, overall score 4.2; (C) *Gaillardia* Heat It Up™ Scarlet, August 16, overall score 4; (D) *Colocasia* 'Dragon Heart Gigante,' September 13, overall score 4.1; (E) *Colocasia* 'Maximus Gigante,' September 13, overall score 4; (F) *Hibiscus* Summerific® Evening Rose, September 13, overall score 4 (continued on next page).

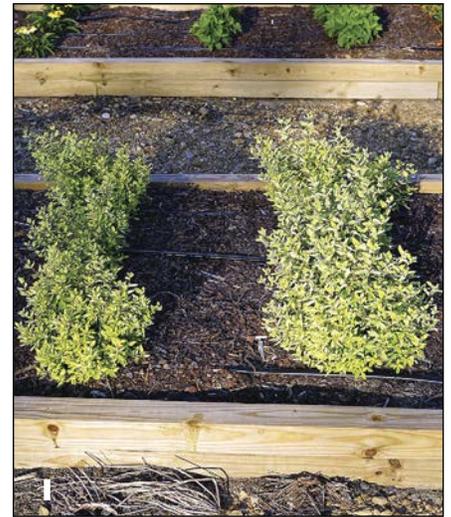


Figure 7 (continued). Top-performing perennials in 2019: (G) *Lantana Lucky™ Peach*, September 13, overall score 4; (H) *Verbena Superbena Sparkling® Amethyst Improved*, August 30, overall score 4; (I) *Caryopteris 'Gold Crest,'* September 13, overall score 3.9; and (J) *Dianthus Rockin'® Purple*, August 30, overall score 3.9.



Figure 8. *Salvia Rockin'® Blue Suede Shoes™* had uneven landscape performance. The blue and red rectangles highlight plants that performed well or poorly, respectively.



Figure 9. *Lavandula 'Annet.'*

**Table 7. Average 2019 trial entries and scores.**

Cultivar	Flowering	Foliage	Landscape performance	Overall score
Achillea Firefly Peach Sky - perennial	1.0	3.5	2.3	2.5
Achillea Firefly Sunshine - perennial	N/A	3.5	2.3	2.9
Achillea Milly Rock™ Red - perennial	N/A	3.3	2.0	2.6
Achillea Milly Rock™ Rose - perennial	1.5	3.8	2.3	2.7
Allium Serendipity - perennial	N/A	3.6	2.4	3.0
Angelonia Serenita® Blue Sky	2.8	3.7	2.9	3.2
Angelonia Serenita® Rose	1.9	4.1	2.7	2.9
Angelonia Serenita® White	2.9	4.1	3.2	3.4
Bidens Campfire® Flame - basket	2.9	1.9	2.7	2.5
Bidens Goldilocks Rocks® Improved - basket	2.5	2.1	2.1	2.3
Caladium Painted Frog™ 'Poison Dart Frog' - shade	N/A	3.9	3.6	3.8
Caladium Painted Frog™ 'Poison Dart Frog' - shade container	N/A	3.8	3.5	3.6
Calibrachoa MiniFamous® Neo Deep Orange - basket	2.1	1.5	2.0	1.9
Calibrachoa MiniFamous® Uno Double PlumTastic - basket	2.0	1.6	1.8	1.8
Calibrachoa Superbells® Blackcurrant Punch - basket	2.4	2.1	2.3	2.3
Calibrachoa Superbells® Double Amber - basket	1.8	1.6	1.7	1.8
Calibrachoa Superbells® Double Blue - basket	1.8	1.5	1.8	1.8
Calibrachoa Superbells® Double Orange - basket	1.9	1.6	1.8	1.8
Calibrachoa Superbells® Dreamsicle Improved - basket	2.3	1.9	2.1	2.1
Calibrachoa Superbells® Honeyberry - basket	2.6	1.8	2.0	2.1
Calibrachoa Superbells® Tabletop Blue - basket	2.7	2.1	2.3	2.4
Calibrachoa Superbells® Tabletop Red - basket	2.5	1.9	2.3	2.2
Calibrachoa Superbells® Tabletop White - basket	2.9	2.4	2.6	2.6
Calibrachoa Superbells® Watermelon Punch - basket	2.3	1.6	1.9	1.9
Capsicum Fire Away™ Hot and Heavy™ - vegetable	2.5	3.8	2.6	2.9
Capsicum Orange Marmalade - vegetable	2.0	2.3	2.1	2.1
Caryopteris 'Gold Crest' - perennial	N/A	4.3	3.6	3.9
Clematis 'Stand by Me' - perennial	1.6	3.8	2.3	2.5
Colocasia 'Black Sapphire Gecko' - container	N/A	3.3	3.4	3.5
Colocasia 'Black Sapphire Gecko' - perennial	N/A	4.1	3.5	3.8
Colocasia 'Dragon Heart Gigante' - container	N/A	4.1	3.9	4.0
Colocasia 'Dragon Heart Gigante' - perennial	N/A	4.1	4.1	4.1
Colocasia 'Maximus Gigante' - container	N/A	3.7	3.8	3.9
Colocasia 'Maximus Gigante' - perennial	N/A	4.0	4.0	4.0
Colocasia 'Tea Party' - container	N/A	3.5	3.5	3.6
Colocasia 'Tea Party' - perennial	N/A	4.0	3.6	3.8
Cucurbita Lemon Sun - vegetable	1.7	3.6	3.0	2.9
Cuphea Honeybells	2.1	1.9	1.8	2.0
Dahlia Venti™ Red+White	N/A	2.0	1.5	1.8
Dahlia Venti™ Royal Purple	1.0	2.0	1.5	1.5
Dahlia Venti™ Tequila Sunrise	N/A	1.8	1.5	1.6
Dianthus Mountain Frost™ Red Garnet - perennial	2.1	4.6	2.9	3.2
Dianthus Rockin'™ Pink Magic - perennial	3.3	4.5	3.4	3.7
Dianthus Rockin'™ Purple - perennial	3.5	4.4	3.9	3.9
Dianthus Rockin'™ Red - perennial	3.0	4.4	3.1	3.5
Dianthus Rockin'™ Rose - perennial	3.3	4.4	3.5	3.7
Digitalis Artic Fox Rose - shade perennial	1.7	3.8	2.0	2.7
Echinacea Sombrero® Summer Solstice - perennial	1.8	4.4	2.8	3.0
Eupatorium Euphoria™ Ruby - perennial	1.0	2.3	2.3	2.1
Euphorbia Diamond Snow™	3.8	1.4	1.8	2.3
Euphorbia Glamour Improved	3.3	2.9	2.4	2.7
Gaillardia Heat it Up™ Scarlet - perennial	3.6	4.3	4.0	4.0
Gaillardia Heat it Up™ Yellow - perennial	3.9	4.5	4.1	4.2
Helianthus Suncredible™ yellow	2.6	4.1	3.3	3.3
Heliopsis Tuscan Gold™ - perennial	2.0	4.3	2.9	3.0
Heliopsis Tuscan Sun - perennial	3.2	4.3	3.0	3.5
Heuchera Dolce® Wildberry - shade perennial	N/A	2.8	2.3	2.5
Hibiscus Summerific® Evening Rose - perennial	2.8	5.0	4.3	4.0
Impatiens Beacon™ Bright Red - shade	2.8	3.7	3.2	3.2
Impatiens Beacon™ Coral - shade	2.4	3.6	2.8	2.9
Impatiens Beacon™ Orange - shade	1.4	3.1	2.2	2.2
Impatiens Beacon™ Salmon - shade	1.4	3.2	2.3	2.3
Impatiens Beacon™ Violet Shades - shade	1.4	2.6	1.9	2.0
Impatiens Beacon™ White - shade	2.3	3.8	3.0	3.0
Impatiens Rockapulco® Orange - shade	2.3	2.4	2.7	2.5
Impatiens Super Elfin® Orange Bright - shade	3.1	2.5	3.1	2.9

Continued.

**Table 7 (continued). Average 2019 trial entries and scores.**

<b>Cultivar</b>	<b>Flowering</b>	<b>Foliage</b>	<b>Landscape performance</b>	<b>Overall score</b>
Impatiens Super Elfin® White - shade	2.6	2.4	2.6	2.6
Ipomoea Proven Accents® Sweet Caroline Red Hawk™	N/A	3.5	3.9	4.0
Isotoma Patti's Pink™	3.0	2.1	2.5	2.6
Lantana Lucky™ Peach - perennial	3.8	4.8	3.5	4.0
Lantana Luscious® Goldengate™ - perennial	3.3	4.8	3.8	3.9
Lavandula 'Annet' - perennial	3.5	4.8	2.6	3.6
Leucanthemum Madonna - perennial	1.3	3.0	2.0	2.3
Lycopersicum Artemis - vegetable	2.0	3.3	2.3	2.6
Lycopersicum Helix - vegetable	1.5	3.3	2.5	2.7
Lycopersicum Tempting Tomatoes™ Goodhearted™ - vegetable	1.3	1.4	1.4	1.4
Nemesia Aromance™ Pink	2.9	2.3	2.4	2.6
Nemesia Sunsatia® Cranberry Red	2.5	1.8	2.1	2.2
Nepeta Blue Prelude - perennial	2.8	4.0	3.0	3.3
Ocimum 'Everleaf Emerald Towers' - herbs	N/A	4.8	4.0	4.3
Ocimum Newton - herbs	3.0	4.6	3.7	3.8
Osteospermum Bright Lights™ Purple	1.8	3.3	2.3	2.5
Osteospermum Bright Lights™ White	2.4	2.5	2.0	2.3
Penstemon Quartz® Red - perennial	2.7	3.5	2.8	2.9
Pentas Lucky Star® Lipstick	3.1	3.3	2.9	3.1
Pentas Lucky Star® White Improved	3.4	3.5	3.5	3.5
Pentas Sunstar™ Lavender	3.4	3.8	3.4	3.5
Pentas Sunstar™ Pink	1.9	2.9	2.4	2.4
Pentas Sunstar™ Red	2.3	4.0	2.8	3.0
Pentas Sunstar™ Rose	2.5	3.9	2.9	3.1
Petunia ColorRush™ Purple	2.9	2.4	2.8	2.8
Petunia ColorRush™ Watermelon Red	2.3	1.9	2.1	2.1
Petunia ColorRush™ White	3.9	3.4	3.9	3.8
Petunia Easy Wave® Lavender Sky Blue	2.8	3.0	2.9	2.9
Petunia Easy Wave® Pink Passion	2.3	2.7	2.3	2.4
Petunia Easy Wave® Red Improved	1.7	1.8	1.8	1.8
Petunia Headliner™ Dark Saturn	2.4	3.1	2.7	2.7
Petunia Supertunia Vista® Snowdrift™	4.0	3.8	4.0	3.9
Petunia Supertunia® Mini Vista Indigo Improved	4.2	3.7	4.0	3.9
Petunia Supertunia® Raspberry Rush™	3.3	2.4	3.1	3.0
Petunia Supertunia® Sharon	2.4	3.3	2.6	2.8
Petunia Wave® Carmine Velour	3.6	4.0	3.8	3.7
Petunia Wave® Misty Lilac	3.2	3.2	3.2	3.2
Petunia Wave® Purple	3.2	2.7	2.9	2.9
Phlox Opening Act Pink-a-Dot - perennial	2.3	3.8	3.0	3.0
Phlox Opening Act Ultraviolet - perennial	2.4	3.5	3.0	3.0
Portulaca Mojave® Red Improved - basket	4.0	3.3	3.0	3.2
Salvia New Dimension Rose™ Improved - perennial	1.8	1.4	1.5	1.5
Salvia New Dimension™ Blue - perennial	2.0	2.3	2.3	2.2
Salvia Purple & Bloom - perennial	2.8	3.1	2.6	2.8
Salvia Rockin'® Blue Suede Shoes™ - perennial	1.5	1.6	1.4	1.5
Salvia Salvatore Blue - perennial	2.8	3.5	3.0	3.1
Salvia Unplugged™ So Blue™ - perennial	4.3	4.6	4.5	4.5
Scaevola Whirlwind® Blue Improved - basket	4.4	2.9	4.2	3.8
Sedum Prima Angelina - perennial	N/A	1.0	1.0	1.0
Sedum Rock N' Grow® Boogie Woogie - perennial	N/A	3.3	2.5	2.9
Sedum Rock N' Grow® Yellow Brick Road - perennial	N/A	2.4	2.1	2.3
Solenostemon ColorBlaze® Wicked Hot™	2.5	4.4	4.5	4.3
Solenostemon ColorBlaze® Wicked Witch™	N/A	4.8	4.8	4.7
Solenostemon Heartbreaker - shade	N/A	4.3	3.8	4.0
Sutera Snowstorm® Blue - basket	2.1	2.3	2.2	2.1
Sutera Snowstorm® Glacier Blue - basket	2.6	2.5	2.4	2.5
Sutera Snowstorm® Pink - basket	2.5	2.5	2.4	2.5
Sutera Snowstorm® Rose - basket	1.6	2.3	2.0	1.9
Sutera Snowstorm® Snow Globe® Improved - basket	3.3	2.4	3.0	2.9
Verbena Superbena Sparkling® Amethyst Improved - perennial	3.6	4.5	3.8	4.0
Verbena Superbena Sparkling® Rosé - perennial	2.6	1.5	2.0	2.0
Veronica Magic Show® Purple Illusion - perennial	N/A	3.0	2.0	2.5
Veronica Moody Blues® Mauve Improved - perennial	2.0	3.0	2.3	2.4
Zinnia Zesty™ Fuchsia	3.0	2.9	3.2	3.0
Zinnia Zesty™ Pink	3.0	2.8	3.1	2.9
Zinnia Zesty™ Purple	2.7	2.6	3.0	2.7
Zinnia Zesty™ Scarlet	3.3	3.7	3.7	3.5
Zinnia Zesty™ White	3.0	2.6	3.1	2.9
Zinnia Zesty™ Yellow	2.9	2.5	3.0	2.8

## REFERENCE

**Hamrick, D.** 2003. Ball redbook, crop production, Volume: 2. Batavia: Ball Publishing.



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