#### OHIO STATE UNIVERSITY EXTENSION

## 2021 Herbaceous Cultivar Trials Results

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#### Introduction

Cultivar trials have been conducted by Ohio State University faculty along with Clark County Extension staff and Master Gardener Volunteers (MGV) in Springfield, Ohio since 1995. MGVs Theresa Gregory, Linda McCann and Rosalind Soles were the 2021 project leaders and were responsible for growing the plants in the greenhouse. Ohio State University Extension Office (OSUE) Associate Jo Brown managed the data. The trials are in the Snyder Park Gardens and Arboretum (1900 Snyder Park Street) in Springfield, Ohio. MGVs planted in the beds and containers, weeded, and assisted with evaluation of the plots. Most of the visitors to the trials were residents, those from out of town who were familiar with the trials, and those who visited the gardens for other reasons.

The plots have loamy, well-drained soil with a pH of 7.4. The current plots were established in the spring of 2015. The beds were tilled to a depth of 8" in both the sun and shade plots. There is approximately 5000 square feet of bed space in full sun and approximately 1000 square feet in shade, under a shade tree (moderate to heavy shade, Norway maple). The plots are tilled in the spring prior to planting and in the fall after removal of the annuals.

The selection of plants to be trialed in the garden varies from year to year. The selection is based on entries from companies, performance in prior years, on current trends, and on industry recommendations. The results of performance for the plants are based on the data collected at the plots. The data reflects the growing conditions of 2021 in Springfield or west central Ohio. The purpose of the evaluation is to provide growers, landscapers, and homeowners a tool for plant selection for Ohio as well as to provide performance data to the breeders and companies.

#### Method

The plants were started in the greenhouse at the Ohio State University campus from seeds or plugs, depending on the species, according to the recommended starting dates. They were planted in the ground plots and in the containers on May 19, 2021. There were six plants of each variety in a block; most plants were spaced on two-foot centers with the trailing/vining plants planted on four-foot centers in the block. *Calibrachoa* cultivars were planted in 18" diameter containers, six plants per container, in a soilless mix. There were a few other plants in containers as noted below.

A 14-14-14 slow-release fertilizer was incorporated into the soil as well as the containers prior to planting at the labeled rate (one tablespoon per four-inch plant). No additional application of fertilizer was made to plants in the ground. Additional fertilizer (Main Event) was provided to the containers to manage pH of the mix. Trials were irrigated as needed and containers were watered regularly. See the weather information below for details. No mulch was used. Hand weeding was completed as needed. Treflan (e.g., trifluralin) was incorporated in between the plants at six weeks after planting.

All plants were grown in full sun unless otherwise indicated with a shaded row in the chart below. Normally no pesticides are applied; however, the deer pressure was a problem for a few of the plants (tomatoes) in 2021. A repellant was used on these plants throughout the season. *The plants were not deadheaded or pruned during the growing season.* 

Faculty, staff, and volunteers conducted visual evaluations on June 23<sup>th</sup>, July 22<sup>nd</sup>, August 19<sup>th</sup>, and September 16<sup>th</sup>. The entire block of plants received a visual rating from one to five. A rating of five was excellent and a rating of one was poor. The five individual evaluation ratings were averaged for the monthly rating figure. The monthly evaluations (June-September) were averaged for the final rating for each variety.

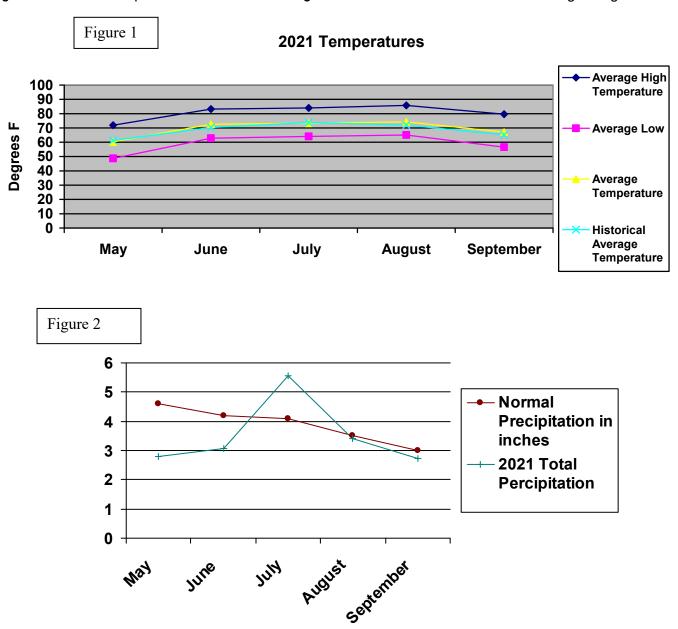
#### **Weather Information**

The information below was obtained from the College of Food, Agricultural, and Environmental Sciences weather station in Springfield, Ohio. More details can be found at: https://weather.cfaes.osu.edu/stationinfo.asp?id=13

Plants were installed under perfect planting conditions on May 19<sup>th</sup>. May and June precipitation overall was below normal. However, July was above normal, with 10 out of 11 days in the early part of the month measuring rainfall. Many of the plants (petunias in particular) took a beating from a few heavy downfalls which resulted in lower evaluation numbers. August was close to normal, and September was slightly lower in precipitation.

Temperatures were close to the season average temperature. Immediately after planting temperatures soared into the upper 80F range with little rain until the end of May. On May 24<sup>th</sup>, there were a total of 18 days of 90F or higher with half of them occurring in August. This compares to 21 days with temperatures 90F or higher in 2020, 23 days in 2019, 22 days in 2018 and four days in 2017.

Figure 1 indicates temperature conditions and Figure 2 indicates rainfall amounts for this growing season.



### **Results**

Following are the varieties in the 2021 field trials and their monthly ratings and final rating. The plants listed that are shaded gray are those varieties that were grown in shade. The plants with an \* after the Genus/Common Name were grown in containers, six plants per container.

The supplier for each variety is listed in the table; the supplier key is at the end under companies. The plants are listed in order of Final Rating from highest to lowest. A rating of five is the highest; a rating of one is the lowest.

			>			J	er	
Genus/			Company	June	July	August	September	Overall Average
Common			l mo	ح	٦	Au	ept	era
Name	Series	Variety/Color	ပ				တိ	A Q
	Graceful	•						
Cyperus	Grasses	Prince Tut	PW	4.83	5.00	5.00	5.00	4.96
Solenostemon	Colorblaze	Torchlight	PW	5.00	4.83	5.00	5.00	4.96
	Supertunia	-						
Petunia	Vista®	Bubblegum	PW	4.83	4.83	5.00	5.00	4.92
	Supertunia							
Petunia	Vista®	Snowdrift	PW	4.67	5.00	5.00	4.83	4.88
Petunia	CannonBall	Merlot Star Imp	BH	4.67	4.83	4.67	4.83	4.75
Solenostemon	ColorBlaze®	Torchlight	PW	4.67	4.83	4.67	4.83	4.75
Solenostemon	Colorblaze	El Brighto	PW	4.67	4.50	5.00	4.83	4.75
Bracteantha	Granvia	Gold	SUN	4.83	5.00	4.83	4.33	4.75
Petunia	Surfinia	Sumo Pink	SUN	5.00	4.50	5.00	4.33	4.71
Solenostemon	ColorBlaze®	Newly Noir	PW	4.50	4.67	5.00	4.50	4.67
Rex Begonia	Jurassic Jr.	Berry Swirl	BH	4.50	4.50	4.67	5.00	4.67
	Jurassic							
Rex Begonia	Megalo	Komodo	BH	4.50	4.17	5.00	5.00	4.67
Solenostemon	ColorBlaze®	El Brighto	PW	4.67	4.17	4.67	5.00	4.63
Solenostemon	Colorblaze	Newly Noir	PW	4.83	4.00	4.83	4.83	4.63
Impatiens	Beacon	White	BH	3.83	4.83	4.83	4.83	4.58
		Pink Bronze Leaf						
Begonia	Megawatt	Improved	BH	3.50	4.83	5.00	5.00	4.58
Rex Begonia	Jurassic Jr.	Red Splash	BH	4.50	4.33	4.50	5.00	4.58
Rex Begonia	Jurassic	Pink Splash	ВН	4.50	4.33	4.67	4.67	4.54
	Supertunia							
Petunia	Mini Vista	White	PW	4.83	4.33	4.83	4.00	4.50
Rex Begonia	Jurassic Jr.	Purpla Spec	BH	4.50	4.50	4.50	4.50	4.50
	Jurassic							
Rex Begonia	Megalo	Croc	BH	4.50	4.33	4.50	4.67	4.50
Ageratum	Artist	Blue	PW	4.00	4.67	4.67	4.50	4.46
Zinnia	Profusion	Double Red	SAK	4.50	4.50	4.67	4.17	4.46
Petunia	Supertunia	Royal Velvet®	PW	4.83	3.67	4.67	4.50	4.42
Ocimum		Amazel Basil	PW	4.17	4.50	4.50	4.50	4.42
Begonia	Viking Explorer	Red on Green	SAK	4.83	4.33	4.33	4.17	4.42
Rex Begonia	Jurassic	Silver Swirl	BH	4.17	4.33	4.50	4.67	4.42
	Jurassic							
Rex Begonia	Megalo	Reptile	BH	4.33	4.17	4.33	4.83	4.42
Rex Begonia	Jurassic Dino	Polka Dot	BH	4.33	4.33	4.50	4.50	4.42
Petunia	Surfinia	Purple Heart	SUN	4.83	4.00	4.17	4.50	4.38

Basil   Everleaf	Genus/ Common Name	Series	Variety/Color	Company	June	July	August	September	Overall Average
Zinnia	Basil	Everleaf	Thai Towers	BH	5.00	4.83	4.50	3.17	4.38
Rex Begonia	Begonia	Viking Explorer	Rose on Green	SAK	4.83	4.33	4.33	4.00	4.38
Rex Begonia   Jurassic Dino   Greenie   BH   4.17   4.33   4.50   4.38   Salvia   Lancelot   BH   4.83   4.33   4.30   4.00   4.38   Salvia   Unplugged   Pink   PW   3.50   4.33   4.30   5.00   4.33   Impatiens   SunPatiens   Compact Double Red   SAK   2.83   4.50   4.33   4.50   4.33   4.33   4.29   Impatiens   Beacon   Violet Shades   BH   3.67   4.33   4.33   4.29   Impatiens   Beacon   Violet Shades   BH   3.67   4.33   4.33   4.29   Ageratum   Artist   Pearl   PW   3.07   4.67   4.33   4.33   4.29   Ageratum   Artist   Pearl   PW   3.07   4.67   4.33   4.33   4.29   Ageratum   Artist   Pearl   PW   3.67   4.67   4.33   4.33   4.29   Ageratum   Artist   Pearl   PW   3.67   4.67   4.33   4.50   4.50   4.25   Ageratum   Artist   Pearl   PW   3.67   4.67   4.33   4.33   4.29   Ageratum   Artist   Pearl   PW   3.67   4.67   4.33   4.50   4.50   4.25   Ageratum   Artist   Pearl   PW   3.67   4.67   4.33   4.33   4.29   Ageratum   Artist   Pearl   PW   3.67   4.67   4.50   4.25   Ageratum   Artist   Pearl   PW   4.00   4.33   4.17   4.50   4.25   Ageratum   Artist   Pearl   PW   4.00   4.33   4.17   4.50   4.25   Ageratum   Artist   Pearl   PW   4.00   4.33   4.17   4.50   4.25   Ageratum   Artist   Pearl   PW   4.00   4.17   3.50   5.00   4.17   Ageratum   Artist   Pearl   PW   4.67   3.67   3.67   4.83   4.17   Ageratum   Artist   Pearl   PW   3.83   4.67   3.33   3.50   4.17   Ageratum   Artist   Pearl   PW   3.50   4.67   4.17   4.33   4.17   Ageratum   Artist   Pearl   PW   4.67   4.6	Zinnia	Profusion	Red Yellow Bicolor	SAK	4.50	4.50	4.50	4.00	4.38
Salvia	Rex Begonia	Jurassic	Heartbeat	BH	4.50	4.00	4.50	4.50	4.38
Salvia		Jurassic Dino	Greenie	BH	4.17	4.33	4.50	4.50	4.38
Impatiens	Salvia		Lancelot	BH	4.83	4.33	4.33	4.00	4.38
Impatiens	Salvia	Unplugged	Pink	PW	3.50	4.33	4.50	5.00	4.33
Impatiens	Impatiens		Compact Double Red	SAK	2.83	4.50	4.83	5.00	4.29
Ageratum	Gomphrena	Truffula	Pink	PW	4.00	4.33	4.50	4.33	4.29
Impatiens   Beacon   Salmon   BH   3.67   4.33   4.50   4.25	Impatiens	Beacon	Violet Shades	BH	3.67	4.33	4.33	4.83	4.29
Rex Begonia	Ageratum	Artist	Pearl	PW	3.67	4.67	4.33	4.33	4.25
Rex Begonia	Impatiens	Beacon	Salmon	BH	3.67	4.33	4.50	4.50	4.25
Supertunia	•	Jurassic Dino		ВН					
Scaevola         Surfinia         White Imp         SUN         3.83         4.67         3.33         4.83         4.17           Dahlia         City Lights         Orange         BH         4.17         4.67         4.33         3.50         4.17           Impatiens         Beacon         Rose         BH         3.50         4.67         4.67         4.67         4.13           Impatiens         Beacon         Rose         BH         3.00         4.17         4.67         4.67         4.13           Begonia         Rivulet         Blush         BH         3.50         4.17         4.67         4.67         4.13           Dahlia         City Lights         Neon         BH         3.50         4.17         4.67         3.50         4.08           Thunbergia         Cocconut-A-Peel         PW         3.17         4.33         4.67         4.17         4.00         4.08           Petunia         Mini Vista         Hot Pink         PW         4.67         3.00         4.33         4.17         4.04           Thunbergia         Candy Cane         Chocolate Cherry         BH         4.67         3.67         3.83         3.67         3.96		Supertunia							
Dahlia         City Lights         Orange         BH         4.17         4.67         4.33         3.50         4.17           Impatiens         Beacon         Formula Mixture         BH         3.50         4.67         4.17         4.33         4.17           Impatiens         Beacon         Rose         BH         3.50         4.17         4.67         4.67         4.13           Boliviensis         Boliviensis         Beacon         BH         3.50         4.17         4.83         4.00         4.13           Dahlia         City Lights         Neon         BH         3.50         4.17         4.83         4.00         4.13           Dahlia         City Lights         Neon         BH         3.50         4.67         4.67         3.50         4.08           Thunbergia         Coconut-A-Peel         PW         3.17         4.33         4.67         4.17         4.00         4.08           Petunia         Mini Vista         Hot Pink         PW         4.67         3.00         4.33         4.17         4.04           Thunbergia         Candy Cane         Chocolate Cherry         BH         4.67         3.67         3.83         3.67         3.96 </td <td>Lantana</td> <td>Luscious</td> <td>Citron</td> <td>PW</td> <td>4.00</td> <td>4.17</td> <td>3.50</td> <td>5.00</td> <td>4.17</td>	Lantana	Luscious	Citron	PW	4.00	4.17	3.50	5.00	4.17
Dahlia         City Lights         Orange         BH         4.17         4.67         4.33         3.50         4.17           Impatiens         Beacon         Formula Mixture         BH         3.50         4.67         4.17         4.33         4.17           Impatiens         Beacon         Rose         BH         3.50         4.17         4.67         4.67         4.13           Boliviensis         Boliviensis         Beacon         BH         3.50         4.17         4.83         4.00         4.13           Dahlia         City Lights         Neon         BH         3.50         4.17         4.83         4.00         4.13           Dahlia         City Lights         Neon         BH         3.50         4.67         4.67         3.50         4.08           Thunbergia         Coconut-A-Peel         PW         3.17         4.33         4.67         4.17         4.00         4.08           Petunia         Mini Vista         Hot Pink         PW         4.67         3.00         4.33         4.17         4.04           Thunbergia         Candy Cane         Chocolate Cherry         BH         4.67         3.67         3.83         3.67         3.96 </td <td>Scaevola</td> <td>Surfinia</td> <td>White Imp</td> <td>SUN</td> <td>3.83</td> <td>4.67</td> <td>3.33</td> <td>4.83</td> <td>4.17</td>	Scaevola	Surfinia	White Imp	SUN	3.83	4.67	3.33	4.83	4.17
Impatiens         Beacon         Formula Mixture         BH         3.50         4.67         4.17         4.33         4.17           Impatiens         Beacon         Rose         BH         3.00         4.17         4.67         4.67         4.13           Begonia         Rivulet         Blush         BH         3.50         4.17         4.83         4.00         4.13           Dahlia         City Lights         Neon         BH         3.50         4.67         4.67         3.50         4.08           Thunbergia         Coconut-A-Peel         PW         3.17         4.33         4.67         4.17         4.08           Petunia         Supertunia         Sharon         PW         4.50         3.67         4.17         4.00         4.08           Petunia         Mini Vista         Hot Pink         PW         4.67         3.00         4.33         4.17         4.04           Thunbergia         Slice-A-Peel         PW         3.33         4.33         4.17         4.04           Pepper         Candy Cane         Chocolate Cherry         BH         4.67         3.67         3.83         3.67         3.96           Dianthus         Jolt	Dahlia	City Lights	•	ВН	4.17	4.67	4.33	3.50	
Begonia   Belacon   Rose   BH   3.00   4.17   4.67   4.67   4.13	Impatiens								
Begonia         Boliviensis Rivulet         Blush         BH         3.50         4.17         4.83         4.00         4.13           Dahlia         City Lights         Neon         BH         3.50         4.67         4.67         3.50         4.08           Thunbergia         Coconut-A-Peel         PW         3.17         4.33         4.67         4.17         4.08           Petunia         Supertunia         Sharon         PW         4.50         3.67         4.17         4.00         4.08           Petunia         Mini Vista         Hot Pink         PW         4.67         3.00         4.33         4.17         4.04           Thunbergia         Silce-A-Peel         PW         3.33         4.33         4.17         4.04           Pepper         Candy Cane         Chocolate Cherry         BH         4.67         3.67         3.83         3.67         3.96           Dianthus         Jolt         Purple         BH         3.50         5.00         4.83         2.50         3.96           Catharanthus         Soiree Kawaii         Blueberry Kiss         SUN         4.17         3.67         4.53         3.92           Petunia         ColorRush									
Begonia         Rivulet         Blush         BH         3.50         4.17         4.83         4.00         4.13           Dahlia         City Lights         Neon         BH         3.50         4.67         4.67         3.50         4.08           Thunbergia         Coconut-A-Peel         PW         3.17         4.33         4.67         4.17         4.08           Petunia         Supertunia         Sharon         PW         4.50         3.67         4.17         4.08           Petunia         Mini Vista         Hot Pink         PW         4.67         3.00         4.33         4.17         4.04           Thunbergia         Slice-A-Peel         PW         3.33         4.33         4.33         4.17         4.04           Pepper         Candy Cane         Chocolate Cherry         BH         4.67         3.67         3.83         3.67         3.96           Dianthus         Jolt         Purple         BH         3.50         5.00         4.83         2.50         3.96           Catharanthus         Soiree Kawaii         Blueberry Kiss         SUN         4.17         3.67         3.00         4.83         3.92           Calylophus         La									
Dahlia         City Lights         Neon         BH         3.50         4.67         4.67         3.50         4.08           Thunbergia         Coconut-A-Peel         PW         3.17         4.33         4.67         4.17         4.08           Petunia         Supertunia         Supertunia         PW         4.50         3.67         4.17         4.00         4.08           Petunia         Mini Vista         Hot Pink         PW         4.67         3.00         4.33         4.17         4.04           Thunbergia         Slice-A-Peel         PW         3.33         4.33         4.33         4.17         4.04           Pepper         Candy Cane         Chocolate Cherry         BH         4.67         3.67         3.83         3.67         3.96           Dianthus         Jolt         Purple         BH         3.50         5.00         4.83         2.50         3.96           Catharanthus         Soiree Kawaii         Blueberry Kiss         SUN         4.17         3.67         3.00         4.83         3.92           Lantana         Shamrock         Orange Flame         BH         3.50         5.00         4.83         3.92           Calylophus	Begonia		Blush	ВН	3.50	4.17	4.83	4.00	4.13
Thunbergia         Coconut-A-Peel         PW         3.17         4.33         4.67         4.17         4.08           Petunia         Supertunia         Sharon         PW         4.50         3.67         4.17         4.00         4.08           Petunia         Mini Vista         Hot Pink         PW         4.67         3.00         4.33         4.17         4.04           Thunbergia         Slice-A-Peel         PW         3.33         4.33         4.33         4.17         4.04           Pepper         Candy Cane         Chocolate Cherry         BH         4.67         3.67         3.83         3.67         3.96           Dianthus         Jolt         Purple         BH         3.50         5.00         4.83         2.50         3.96           Catharanthus         Soiree Kawaii         Blueberry Kiss         SUN         4.17         3.67         3.00         4.83         3.92           Lantana         Shamrock         Orange Flame         BH         3.50         3.83         3.33         5.00         3.92           Catylophus         Ladybird         Sunglow         PW         3.67         4.17         3.67         3.92           Catharanthus		City Lights	Neon	ВН	3.50	4.67	4.67	3.50	
Petunia         Supertunia         Sharon         PW         4.50         3.67         4.17         4.00         4.08           Petunia         Mini Vista         Hot Pink         PW         4.67         3.00         4.33         4.17         4.04           Thunbergia         Slice-A-Peel         PW         3.33         4.33         4.33         4.17         4.04           Pepper         Candy Cane         Chocolate Cherry         BH         4.67         3.67         3.83         3.67         3.96           Dianthus         Jolt         Purple         BH         3.50         5.00         4.83         2.50         3.96           Catharanthus         Soiree Kawaii         Blueberry Kiss         SUN         4.17         3.67         3.00         4.83         3.92           Lantana         Shamrock         Orange Flame         BH         3.50         3.83         3.33         5.00         3.92           Petunia         ColorRush         Red         BH         4.17         3.67         4.50         3.83         3.92           Catharanthus         Soiree Kawaii         Red Shades         SUN         4.33         3.67         4.00         3.67         3.92	Thunbergia	, ,	Coconut-A-Peel	PW	3.17	4.33	4.67	4.17	4.08
Petunia   Mini Vista   Hot Pink   PW   4.67   3.00   4.33   4.17   4.04		Supertunia		PW	4.50			4.00	
Thunbergia         Slice-A-Peel         PW         3.33         4.33         4.33         4.17         4.04           Pepper         Candy Cane         Chocolate Cherry         BH         4.67         3.67         3.83         3.67         3.96           Dianthus         Jolt         Purple         BH         3.50         5.00         4.83         2.50         3.96           Catharanthus         Soiree Kawaii         Blueberry Kiss         SUN         4.17         3.67         3.00         4.83         3.92           Lantana         Shamrock         Orange Flame         BH         3.50         3.83         3.33         5.00         3.92           Petunia         ColorRush         Red         BH         4.17         3.67         4.17         3.67         3.92           Catharanthus         Soiree Kawaii         Red Shades         SUN         4.33         3.67         4.50         3.83         3.92           Lantana         Bloomify         Orange         BH         3.67         4.00         3.67         3.92           Petunia         E3 Easy Wave         Blue         BH         4.67         3.83         3.83         3.17         3.88 <t< td=""><td>Petunia</td><td>Supertunia</td><td>Hot Pink</td><td>PW</td><td>4.67</td><td>3.00</td><td>4.33</td><td>4.17</td><td>4.04</td></t<>	Petunia	Supertunia	Hot Pink	PW	4.67	3.00	4.33	4.17	4.04
Pepper         Candy Cane         Chocolate Cherry         BH         4.67         3.67         3.83         3.67         3.96           Dianthus         Jolt         Purple         BH         3.50         5.00         4.83         2.50         3.96           Catharanthus         Soiree Kawaii         Blueberry Kiss         SUN         4.17         3.67         3.00         4.83         3.92           Lantana         Shamrock         Orange Flame         BH         3.50         3.83         3.33         5.00         3.92           Petunia         ColorRush         Red         BH         4.17         3.67         4.17         3.67         3.92           Calylophus         Ladybird         Sunglow         PW         3.67         3.67         4.50         3.83         3.92           Catharanthus         Soiree Kawaii         Red Shades         SUN         4.33         3.67         4.00         3.67         3.92           Lantana         Bloomify         Orange         BH         3.67         4.00         3.17         4.83         3.92           Petunia         E3 Easy Wave         Blue         BH         4.67         3.83         3.83         3.17	Thunbergia		Slice-A-Peel	PW	3.33	4.33	4.33	4.17	4.04
Dianthus         Jolt         Purple         BH         3.50         5.00         4.83         2.50         3.96           Catharanthus         Soiree Kawaii         Blueberry Kiss         SUN         4.17         3.67         3.00         4.83         3.92           Lantana         Shamrock         Orange Flame         BH         3.50         3.83         3.33         5.00         3.92           Petunia         ColorRush         Red         BH         4.17         3.67         4.17         3.67         3.92           Calylophus         Ladybird         Sunglow         PW         3.67         4.50         3.83         3.92           Catharanthus         Soiree Kawaii         Red Shades         SUN         4.33         3.67         4.00         3.67         3.92           Lantana         Bloomify         Orange         BH         3.67         4.00         3.67         3.92           Petunia         E3 Easy Wave         Blue         BH         4.67         3.83         3.83         3.17         3.88           Catharanthus         Soiree Kawaii         White Peppermint         SUN         4.17         3.67         4.00         3.83           Lantana <td></td> <td>Candy Cane</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>		Candy Cane							
Catharanthus         Soiree Kawaii         Blueberry Kiss         SUN         4.17         3.67         3.00         4.83         3.92           Lantana         Shamrock         Orange Flame         BH         3.50         3.83         3.33         5.00         3.92           Petunia         ColorRush         Red         BH         4.17         3.67         4.17         3.67         3.92           Calylophus         Ladybird         Sunglow         PW         3.67         4.50         3.83         3.92           Catharanthus         Soiree Kawaii         Red Shades         SUN         4.33         3.67         4.00         3.67         3.92           Lantana         Bloomify         Orange         BH         3.67         4.00         3.67         3.92           Lantana         E3 Easy Wave         Blue         BH         3.67         4.00         3.17         4.83         3.92           Petunia         E3 Easy Wave         Blue         BH         4.67         3.83         3.83         3.17         3.88           Catharanthus         Soiree Kawaii         White Peppermint         SUN         4.17         3.67         4.00         3.00         5.00         3.8								i i	
Lantana         Shamrock         Orange Flame         BH         3.50         3.83         3.33         5.00         3.92           Petunia         ColorRush         Red         BH         4.17         3.67         4.17         3.67         3.92           Calylophus         Ladybird         Sunglow         PW         3.67         3.67         4.50         3.83         3.92           Catharanthus         Soiree Kawaii         Red Shades         SUN         4.33         3.67         4.00         3.67         3.92           Lantana         Bloomify         Orange         BH         3.67         4.00         3.67         3.92           Petunia         E3 Easy Wave         Blue         BH         3.67         4.00         3.17         4.83         3.92           Petunia         E3 Easy Wave         Blue         BH         4.67         3.83         3.83         3.17         3.88           Catharanthus         Soiree Kawaii         White Peppermint         SUN         4.17         3.67         4.00         3.88           Lantana         Bhacon         Coral         BH         3.50         4.00         3.00         5.00         3.83           Impati		Soiree Kawaii		SUN					
Petunia         ColorRush         Red         BH         4.17         3.67         4.17         3.67         3.92           Calylophus         Ladybird         Sunglow         PW         3.67         3.67         4.50         3.83         3.92           Catharanthus         Soiree Kawaii         Red Shades         SUN         4.33         3.67         4.00         3.67         3.92           Lantana         Bloomify         Orange         BH         3.67         4.00         3.17         4.83         3.92           Petunia         E3 Easy Wave         Blue         BH         4.67         3.83         3.83         3.17         3.88           Catharanthus         Soiree Kawaii         White Peppermint         SUN         4.17         3.67         3.67         4.00         3.88           Lantana         Shamrock         Rose         BH         3.50         4.00         3.00         5.00         3.88           Impatiens         Beacon         Coral         BH         3.67         4.50         3.83         3.50         3.88           Calylophus         Ladybird         Lemonade         PW         3.67         3.83         4.17         3.67         3.83 </td <td></td> <td>Shamrock</td> <td></td> <td>ВН</td> <td>3.50</td> <td></td> <td></td> <td>5.00</td> <td></td>		Shamrock		ВН	3.50			5.00	
Calylophus         Ladybird         Sunglow         PW         3.67         3.67         4.50         3.83         3.92           Catharanthus         Soiree Kawaii         Red Shades         SUN         4.33         3.67         4.00         3.67         3.92           Lantana         Bloomify         Orange         BH         3.67         4.00         3.17         4.83         3.92           Petunia         E3 Easy Wave         Blue         BH         4.67         3.83         3.83         3.17         3.88           Catharanthus         Soiree Kawaii         White Peppermint         SUN         4.17         3.67         3.67         4.00         3.88           Lantana         Shamrock         Rose         BH         3.50         4.00         3.00         5.00         3.88           Impatiens         Beacon         Coral         BH         3.67         4.50         3.83         3.50         3.88           Impatiens         Beacon         Bright Red         BH         3.33         4.00         3.67         4.50         3.83           Calylophus         Ladybird         Lemonade         PW         3.67         3.83         3.33         5.00	Petunia			ВН	4.17	3.67	4.17	3.67	3.92
Catharanthus         Soiree Kawaii         Red Shades         SUN         4.33         3.67         4.00         3.67         3.92           Lantana         Bloomify         Orange         BH         3.67         4.00         3.17         4.83         3.92           Petunia         E3 Easy Wave         Blue         BH         4.67         3.83         3.83         3.17         3.88           Catharanthus         Soiree Kawaii         White Peppermint         SUN         4.17         3.67         4.00         3.88           Lantana         Shamrock         Rose         BH         3.50         4.00         3.00         5.00         3.88           Impatiens         Beacon         Coral         BH         3.67         4.50         3.83         3.50         3.88           Impatiens         Beacon         Bright Red         BH         3.33         4.00         3.67         4.50         3.83           Calylophus         Ladybird         Lemonade         PW         3.67         3.83         4.17         3.67         3.83           Lantana         Luscious         Marmalade         PW         3.17         3.83         3.33         5.00         3.83									
Lantana         Bloomify         Orange         BH         3.67         4.00         3.17         4.83         3.92           Petunia         E3 Easy Wave         Blue         BH         4.67         3.83         3.83         3.17         3.88           Catharanthus         Soiree Kawaii         White Peppermint         SUN         4.17         3.67         3.67         4.00         3.88           Lantana         Shamrock         Rose         BH         3.50         4.00         3.00         5.00         3.88           Impatiens         Beacon         Coral         BH         3.67         4.50         3.83         3.50         3.88           Impatiens         Beacon         Bright Red         BH         3.33         4.00         3.67         4.50         3.88           Calylophus         Ladybird         Lemonade         PW         3.67         3.83         4.17         3.67         3.83           Lantana         Luscious         Marmalade         PW         3.17         3.83         3.33         5.00         3.83           Verbena         EnduraScape         Burgundy         BH         4.83         3.33         3.33         4.33         3.79				SUN					
Petunia         E3 Easy Wave         Blue         BH         4.67         3.83         3.81         3.17         3.88           Catharanthus         Soiree Kawaii         White Peppermint         SUN         4.17         3.67         3.67         4.00         3.88           Lantana         Shamrock         Rose         BH         3.50         4.00         3.00         5.00         3.88           Impatiens         Beacon         Coral         BH         3.67         4.50         3.83         3.50         3.88           Impatiens         Beacon         Bright Red         BH         3.33         4.00         3.67         4.50         3.88           Calylophus         Ladybird         Lemonade         PW         3.67         3.83         4.17         3.67         3.83           Lantana         Luscious         Marmalade         PW         3.17         3.83         3.33         5.00         3.83           Verbena         EnduraScape         Burgundy         BH         4.83         3.33         2.50         4.67         3.83           Lantana         Bloomify         Pink         BH         3.67         3.83         3.33         4.33         3.79				ВН					
Catharanthus         Soiree Kawaii         White Peppermint         SUN         4.17         3.67         3.67         4.00         3.88           Lantana         Shamrock         Rose         BH         3.50         4.00         3.00         5.00         3.88           Impatiens         Beacon         Coral         BH         3.67         4.50         3.83         3.50         3.88           Impatiens         Beacon         Bright Red         BH         3.33         4.00         3.67         4.50         3.88           Calylophus         Ladybird         Lemonade         PW         3.67         3.83         4.17         3.67         3.83           Lantana         Luscious         Marmalade         PW         3.17         3.83         3.33         5.00         3.83           Verbena         EnduraScape         Burgundy         BH         4.83         3.33         2.50         4.67         3.83           Lantana         Bloomify         Pink         BH         3.67         3.83         3.33         4.33         3.79           Rudbeckia         MiniBeckia         Flame         EHR         4.00         5.00         4.50         1.67         3.79									
Lantana         Shamrock         Rose         BH         3.50         4.00         3.00         5.00         3.88           Impatiens         Beacon         Coral         BH         3.67         4.50         3.83         3.50         3.88           Impatiens         Beacon         Bright Red         BH         3.33         4.00         3.67         4.50         3.88           Calylophus         Ladybird         Lemonade         PW         3.67         3.83         4.17         3.67         3.83           Lantana         Luscious         Marmalade         PW         3.17         3.83         3.33         5.00         3.83           Verbena         EnduraScape         Burgundy         BH         4.83         3.33         2.50         4.67         3.83           Lantana         Bloomify         Pink         BH         3.67         3.83         3.33         4.33         3.79           Rudbeckia         MiniBeckia         Flame         EHR         4.00         5.00         4.50         1.67         3.79									
Impatiens         Beacon         Coral         BH         3.67         4.50         3.83         3.50         3.88           Impatiens         Beacon         Bright Red         BH         3.33         4.00         3.67         4.50         3.88           Calylophus         Ladybird         Lemonade         PW         3.67         3.83         4.17         3.67         3.83           Lantana         Luscious         Marmalade         PW         3.17         3.83         3.33         5.00         3.83           Verbena         EnduraScape         Burgundy         BH         4.83         3.33         2.50         4.67         3.83           Lantana         Bloomify         Pink         BH         3.67         3.83         3.33         4.33         3.79           Rudbeckia         MiniBeckia         Flame         EHR         4.00         5.00         4.50         1.67         3.79									
Impatiens         Beacon         Bright Red         BH         3.33         4.00         3.67         4.50         3.88           Calylophus         Ladybird         Lemonade         PW         3.67         3.83         4.17         3.67         3.83           Lantana         Luscious         Marmalade         PW         3.17         3.83         3.33         5.00         3.83           Verbena         EnduraScape         Burgundy         BH         4.83         3.33         2.50         4.67         3.83           Lantana         Bloomify         Pink         BH         3.67         3.83         3.33         4.33         3.79           Rudbeckia         MiniBeckia         Flame         EHR         4.00         5.00         4.50         1.67         3.79									
Calylophus         Ladybird         Lemonade         PW         3.67         3.83         4.17         3.67         3.83           Lantana         Luscious         Marmalade         PW         3.17         3.83         3.33         5.00         3.83           Verbena         EnduraScape         Burgundy         BH         4.83         3.33         2.50         4.67         3.83           Lantana         Bloomify         Pink         BH         3.67         3.83         3.33         4.33         3.79           Rudbeckia         MiniBeckia         Flame         EHR         4.00         5.00         4.50         1.67         3.79									
Lantana         Luscious         Marmalade         PW         3.17         3.83         3.33         5.00         3.83           Verbena         EnduraScape         Burgundy         BH         4.83         3.33         2.50         4.67         3.83           Lantana         Bloomify         Pink         BH         3.67         3.83         3.33         4.33         3.79           Rudbeckia         MiniBeckia         Flame         EHR         4.00         5.00         4.50         1.67         3.79									
Verbena         EnduraScape         Burgundy         BH         4.83         3.33         2.50         4.67         3.83           Lantana         Bloomify         Pink         BH         3.67         3.83         3.33         4.33         3.79           Rudbeckia         MiniBeckia         Flame         EHR         4.00         5.00         4.50         1.67         3.79									
Lantana         Bloomify         Pink         BH         3.67         3.83         3.33         4.33         3.79           Rudbeckia         MiniBeckia         Flame         EHR         4.00         5.00         4.50         1.67         3.79									
Rudbeckia MiniBeckia Flame EHR 4.00 5.00 4.50 1.67 3.79		•	,						
	Pepper	WIII II DOONIA	Pot-a-peno	BH	4.00	3.67	3.83	3.67	3.79

Genus/ Common Name	Series	Variety/Color	Company		July	August	September	0 4
Calibrachoa*	MiniFamous	Neo Pink Hawaii	BH	4.83	4.83	3.50	1.83	3.75
Impatiens	Beacon	Orange	BH	3.17	4.33	3.50	4.00	3.75
Helianthus	Suncredible®	Yellow	PW	4.33	4.83	4.17	1.67	3.75
Calibrachoa*	Superbells®	Double Amber	PW	4.83	4.67	3.50	1.83	3.71
Begonia	Boliviensis Rivulet	Orange	ВН	3.00	3.67	4.33	3.83	3.71
Helianthus	Suncredible®	Saturn	PW	4.33	5.00	4.33	1.17	3.71
Petunia	Pretty Flora	Mellow Yellow	ВН	4.67	2.83	3.83	3.33	3.67
Lantana	Shamrock	Peach	ВН	3.50	3.67	3.00	4.33	3.63
Angelonia*	Angelface	Cascade Snow	PW	4.00	5.00	3.17	2.33	3.63
Exacum	Jupiter	Blue	BH	4.33	4.00	3.00	3.17	3.63
Petunia	E3 Easy Wave	Pink	ВН	4.00	4.00	4.33	2.00	3.58
Evolvulus		Blue My Mind	PW	4.00	3.17	2.50	4.67	3.58
Impatiens	Beacon	Red White Mix	BH	3.50	4.33	3.33	3.17	3.58
Salvia	Unplugged	So Blue	PW	2.67	4.50	3.17	3.83	3.54
Impatiens	SunPatiens	Vigorous Sweetheart White	SAK	2.33	4.17	4.00	3.67	3.54
Petunia	E3 Easy Wave	Coral	ВН	4.17	3.33	2.83	3.67	3.50
Angelonia*	Angelface	Cascade Blue	PW	3.83	5.00	3.17	2.00	3.50
Calibrachoa*	Superbells®	Double Twilight	PW	4.67	3.83	3.50	2.00	3.50
Lobularia		White Knight	PW	4.33	3.17	2.83	3.50	3.46
Begonia	Boliviensis Rivulet	Double Red	ВН	3.00	3.33	3.67	3.67	3.42
Evolvulus		Blue My Mind XL	PW	3.67	3.17	2.50	4.33	3.42
Petunia	SuperCal	Orange Sun	SAK	2.83	3.50	3.83	3.33	3.38
Petunia	E3 Easy Wave	Sky Blue	BH	4.33	3.00	3.17	3.00	3.38
Petunia	CannonBall	White	BH	4.33	3.00	3.17	3.00	3.38
Exacum	Jupiter	White	BH	4.33	3.50	2.67	3.00	3.38
Petunia	Pretty Grand	Mellow Yellow	BH	4.50	2.67	3.17	3.17	3.38
Verbena	Superbena	Imperial Blue	PW	4.50	3.83	2.33	2.67	3.33
Calibrachoa*	MiniFamous	Neo Double Red	BH	4.83	3.67	3.17	1.67	3.33
Catharanthus	Soiree Kawaii	Coral Reef	SUN	4.17	3.00	2.50	3.50	3.29
Petunia	SuperCal Premium	Yellow Sun	SAK	2.33	3.33	3.50	3.67	3.21
Petunia	Surfinia	Heavenly Blue	SUN	4.33	2.50	3.50	2.50	3.21
Petunia	Surfinia	Heartbeat Imp	SUN	4.00	2.83	3.00	2.83	3.17
Petunia	Shock Wave	Spark Mixture Imp	ВН	4.00	3.00	2.83	2.83	3.17
Petunia	SuperCal Premium	Purple Dawn	SAK	2.50	3.00	3.67	3.50	3.17
Lantana	Shamrock	White	BH	3.50	3.17	2.67	3.00	3.08
Petunia	Surfinia	Trailing Red	SUN	4.17	2.50	3.67	1.67	3.00
Verbena		_						
bonariensis		Meteor Shower	PW	3.50	3.17	3.33	2.00	3.00
Petunia	Supertunia	Priscilla Imp	PW	3.83	2.67	3.50	1.83	2.96
Scaevola	Surdiva	Blue Violet	SUN	3.50	2.83	2.33	3.17	2.96
Petunia	Starlet	Midnight Sky	ВН	4.33	2.67	2.67	2.17	2.96
Tomato		Bellatrix	ВН	4.33	3.50	2.33	1.67	2.96

Genus/ Common Name	Series	Variety/Color	Company	June	July	August	September	Overall Average
Scaevola	Surdiva	Fashion Pink	SUN	3.17	3.33	2.33	2.67	2.88
Petunia	Headliner™	Banana Cherry	BH	4.50	2.17	2.67	2.17	2.88
Coleus	Wizard	Select Mixture Imp	BH	3.67	3.50	2.33	1.83	2.83
Tomato		Dark Star	BH	4.50	3.00	2.33	1.50	2.83
Petunia	Headliner™	Enchanted Sky	BH	4.33	1.83	2.67	2.33	2.79
Petunia	Shock Wave	Volt Mixture Imp	BH	4.33	2.17	2.00	2.67	2.79
Petunia	Surfinia	Heavenly Cabernet	SUN	4.17	2.50	2.33	2.00	2.75
Tomato		Loki	BH	3.83	3.33	2.33	1.50	2.75
Petunia	CannonBall	Yellow	BH	4.83	2.67	1.50	1.83	2.71
Petunia	Surfinia	XXL Taffy Pink	SUN	4.00	3.50	3.17	0.00	2.67
Petunia	Shock Wave	White	BH	4.33	2.33	1.83	2.17	2.67
Heliotropium	Augusta	Lavender	PW	4.17	3.50	1.33	1.50	2.63
Angelonia	Angelissa	Rose	SAK	2.17	3.33	2.33	2.50	2.58
Tomato		Marzito	ВН	3.00	2.83	2.50	2.00	2.58
Angelonia	Angelissa	White	SAK	1.67	3.33	2.50	2.50	2.50
Angelonia	Angelissa	Purple	SAK	2.17	3.17	2.33	2.33	2.50
Petunia	E3 Easy Wave	Red	ВН	3.83	2.67	1.83	1.33	2.42
Verbena	Superbena	Scarlet Star	PW	3.83	2.50	1.50	1.67	2.38
Lantana	SunDance	Red	SAK	1.33	1.67	2.33	4.17	2.38
Lobelia	Laguna®	Sky Blue Imp	PW	4.50	1.17	1.83	1.83	2.33
Verbena	Superbena	Whiteout	PW	4.33	2.33	1.50	1.00	2.29
Petunia	ColorRush	Yellow	ВН	3.50	2.67	1.67	1.17	2.25
Heliopsis								
helianthoides		Summer Eclipse	ВН	1.33	2.17	3.33	2.17	2.25
Verbena	Beats	Red and White	ВН	4.33	2.00	1.17	1.00	2.13
Jamesbrittenia	Safari	Sky	PW	3.33	2.33	1.33	1.50	2.13
Lantana	SunDance	Yellow	SAK	1.00	1.67	2.33	3.50	2.13
Verbena	Beats	Purple and White	ВН	3.83	2.00	1.33	1.00	2.04
Petunia	CannonBall	Burgundy	ВН	3.17	1.50	1.67	1.67	2.00
Verbena	Beats	Purple	ВН	3.33	2.00	1.33	1.00	1.92
Jamesbrittenia	Safari	Dawn	PW	3.50	2.33	1.33	0.17	1.83
Verbena	Cake Pops	Purple	PW	3.83	1.33	1.00	1.00	1.79
Lantana	SunDance	White	SAK	1.33	1.50	1.83	2.33	1.75
Verbena	Cake Pops	Pink	PW	3.50	1.17	1.00	1.00	1.67
Lobelia	Laguna®	Cloud White	PW	3.83	0.67	0.50	0.17	1.29

## **Thank You**

Thank you to all the companies how participated in the trials in 2021. Thank you, Mike Anderson, Greenhouse Manager for your guidance and valuable help. Thank you to Berger for the soil donation used to start the plants. A special thanks to our volunteers who assisted with a variety of tasks in these trials. Their dedication and hard work during the growing season kept the trials in excellent condition.

#### **More Information**

Contact Pam Bennett, Associate Professor with questions or comments: <u>bennett.27@osu.edu</u> or 937-398-7575.

## Companies

PW = Proven Winners

BH = Ball Horticulture (Includes Ball FloraPlant, Ball Ingenuity, PanAmerican Seed)

EH = Eason Horticultural Resources

SAK = Sakata

SUN = Suntory

