
2023 Cultivar Trials of Bedding Plants

Horticulture Research and Demonstration Gardens
Department of Plant Sciences



North Dakota State University
Agricultural Experiment Station
Fargo, ND

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2023 Cultivar Trials of Bedding Plants

Barbara A. Laschkewitsch, M.S.
Trial Garden Coordinator

Introduction

Performance trials were conducted on over 200 bedding plants in the Horticultural Demonstration and Research plots, part of the Department of Plant Sciences at North Dakota State University.

The horticulture gardens are located on the corner of 12th Ave. N and 18 St. on the west edge of the NDSU campus. They are for education, research and display purposes and are open to the public, free of charge, throughout the growing season. Guided tours are also available. Contact information for the gardens is located on page 9.

Garden Areas

Bedding Plant Trials: These gardens are located directly off the small parking area on the east side of the gardens. This is an official display garden of All-America Selections (AAS); more information on this organization is on page 8.

Accessibility Garden: These raised beds are designed for gardeners who may be wheelchair bound or otherwise unable to bend or garden in ground level beds. This area is located directly off the parking area adjacent to 18th Street. Different types of annuals are planted here.





Shade planting: This is a dry, shady area located in an area with poplar and pine trees. There are mostly perennials here but there is also a small area for shade tolerant annuals.



Garden Areas (continued)

Daylilies: Almost 2000 daylily cultivars are located in this area on the western edge of the gardens. This is an official garden of the American Daylily Society and was the First Public American Hemerocallis Society Historic Daylily Display Garden. The majority of the cultivars are historic or registered with the society prior to 1992. Visit this area in July to see the peak bloom. Pictures below were taken August 1.



Meadow Garden: This area consists of grasses and forbs native to the prairies of the upper Midwest. *Schizachyrium* (little bluestem), *Sporobolus* (prairie drop seed), *Stipa* (needle grass), *Echinacea*, *Symphyotrichum* (asters) and *Geum* (prairie smoke) are just some of the plants in this area.



Perennial Ornamental Grasses: Both native and non-native perennial grasses are located here. *Schizachyrium* (little bluestem), *Calamagrostis* (feather reed grass), *Miscanthus* (Japanese silver grass) and *Andropogon* (big bluestem) are some of the plants here.

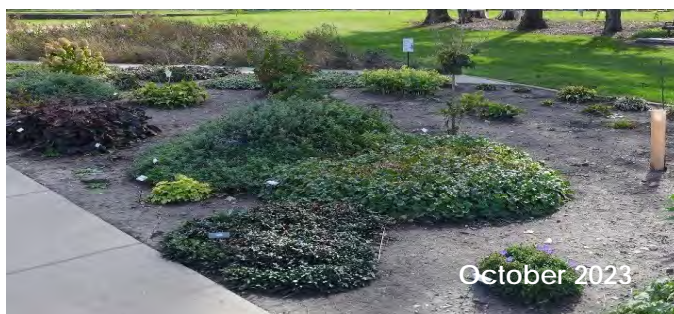


Garden Areas (continued)

Xeric Planting: This area consists of plants that are low maintenance and require less water once established. *Salvia yangii* (Russian sage), *Echinacea*, *Nepeta* and *Baptisia* are some of the genera represented.



Sun/Shade perennials: This area receives both sun and shade so it includes perennials that are tolerant of different light conditions. Some genera here, such as hosta cultivars, are also planted in the full shade area for comparison.

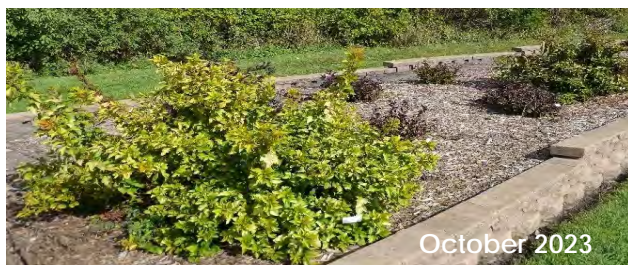


Darwin Perennials hardiness trials: Darwin Perennials (a division of Ball Horticultural Company) has been sending perennials to the NDSU horticulture gardens since 2015 to evaluate for cold hardiness. *Echinacea*, *Veronica*, *Sedum*, *Aquilegia* and *Salvia* are some of the genera that have been tested.



Garden Areas (continued)

Small ornamental shrubs: This small shrub demonstration area was added in June of 2021. Genera here include *Berberis* (Barberry), *Diervilla*, *Physocarpus* (Ninebark), *Potentilla*, *Spiraea*, *Syringa* (Lilac), and *Weigela*.



Memorial Perennial Plant of the Year Bed: This 'Perennial Plant Association Perennial Plant of the Year' bed was officially dedicated on July 28, 2023 in memory of Tanya Lita Chalimonczyk who passed away in 2020. Tanya graduated from NDSU with a degree in horticulture in 1978 and continued her gardening journey in Colorado where she was a Master Gardener in Larimer County. Her family is sponsoring this garden to honor her memory.



Bedding Plant Trials Culture

The plants for the trials were seeded in the horticulture and forestry greenhouse on the NDSU campus from January through April. Specific dates can be found in the report table on pages 10-64. When at the proper stage, seedlings were transplanted into cell packs containing a peat-based growing medium and finished in the greenhouses.

Petunia 'Bees Knees' was received as rooted cuttings on March 15. They were potted into cell packs with the same peat-based growing medium used for the seed started cultivars.

Six to 12 plants of each cultivar were planted into the sun beds and shade beds on May 31- June 2. The All-America Selections bed and accessibility beds were planted on June 5.

Hand weeding was done on a weekly basis but Razor® Pro[1] (glyphosate) was used for spot treating perennial weeds.

Miracle-Gro® Liquefeed 12-4-8 was foliarly applied as follows: June 2-shade annuals; June 5-All-America Selections bed; June 6-accessible bed and pots; June 7-Sun annuals; July 10-All annuals (sun, shade, AAS, accessible and pots); August 2-accessible bed, pots and petunias.

Water was applied through drip irrigation (full sun beds) and overhead irrigation (shade beds and All-America Selections bed).

[1] Disclaimer-Reference to commercial products or trade names is made with the understanding that no discrimination is intended and no endorsement by NDSU or the ND Agriculture Experiment Station is implied.

Bedding Plant Trials Culture (continued)

Weather

Fargo temperatures for June and August were warmer than the 30 year average while July was slightly below. Precipitation was lower in June and July but slightly higher in August than the 30 year average. (Table 1).

Table 1. 2023 and 1991-2020 June-August Average Temperature and Precipitation for Fargo, ND.

	Average Temperature (°F)		Precipitation (inches)	
	2023	1991-2020	2023	1991-2020
June	73	66.8	3.62	4.29
July	69	70.7	1.03	3.07
August	70	68.8	4.62	2.6

Temperature and precipitation data are from NDAWN and the National Climatic Data Center.

Problems

The biggest problem this summer was that the irrigation to the shade annuals was unavailable due to a construction crew breaking the line. July was the driest month this summer and that's when the water was unavailable. There were no other unusual disease or insect problems.

Events

The annual garden day titled 'Plants, Local Foods and Outdoor Spaces' was held on July 25. Tours of the gardens were given and numerous seminars were held during the afternoon. Willing attendees were given flags to mark their two favorite sun annuals. 158 total flags were put out and the winner with 10 flag votes was *Zinnia* 'Benary's Giant Wine' (pictured below-left). Second place with 7 votes was Dahlia 'Firepot' (below-right) while there was a tie for third place with three cultivars receiving 6 votes each. They were *Celosia* 'Ruby Parfait', *Hibiscus* 'Luna Mix' and Snapdragon 'Rocket Hybrid Mix'. The report table (pages 10-64) indicates the number of flags other cultivars received.



Evaluations

Plants were evaluated July 27 and September 6. Measurements for average height and spread were taken and plants were rated on poor to excellent in bloom, uniformity and vigor. Measurements and notes for each cultivar can be found on pages 10-64. Stars in the corners of the photos in the report indicate a top performer during that evaluation time.

The following cultivars received stars for **both** evaluation times and are considered star (superior) performers.

2023 Star Performers (listed alphabetically by genus):

<i>Agastache rupestris</i> -Giant Hyssop	Petunia 'FlashForward Blue'
<i>Begonia</i> 'BabyWing Red Bronze Leaf'	Petunia 'Shock Wave Deep Purple'
<i>Catharanthus</i> (Vinca) 'Tattoo Black Cherry'	Petunia 'Shock Wave Pink Vein'
<i>Catharanthus</i> (Vinca) 'Vitesse Patriot Mix'	Petunia 'Tidal Wave Hot Pink'
<i>Dahlia</i> 'Firepot'	Petunia 'Tidal Wave Red Velour'
<i>Eustoma</i> (Lisianthus) 'Voyage 2 Blue'	Petunia 'Tidal Wave Silver'
<i>Gomphrena</i> 'Raspberry Cream'	Salvia 'Fairy Queen'
<i>Gomphrena</i> 'Strawberry Fields'	<i>Tagetes</i> (Marigold) 'Big Duck Orange'
<i>Ipomoea</i> (Sweet Potato Vine) Sidekick Black	<i>Tagetes</i> (Marigold) 'Tiger Eyes'
<i>Melinis</i> Savannah Grass	<i>Verbena</i> 'Vanity'
<i>Ocimum</i> (Basil) 'Amethyst Improved'	<i>Verbena bonariensis</i>
<i>Ocimum</i> (Basil) 'Everleaf Thai Towers'	Zinnia 'Holi Scarlet'
Petunia 'Bee's Knees'	Zinnia 'Profusion Double Hot Cherry'
Petunia 'Dreams Appleblossom'	Zinnia 'Zesty Orange'
Petunia 'E3 Easy Wave Pink Cosmo'	Zinnia 'Zesty Purple'
Petunia 'Easy Wave Beachcomber Mix'	Zinnia 'Zowie! Yellow Flame'
Petunia 'Easy Wave Burgundy Velour'	

All-America Selections

The NDSU trial garden is an official display garden of All-America Selections (AAS). AAS was founded in 1932 as a way for home gardeners to learn about new and improved cultivars of flowers and vegetables. AAS winners are usually superior cultivars that have been tested in a variety of locations across the United States and Canada. At NDSU, winning cultivars are grown in both the bedding plant trials and a separate garden dedicated solely to AAS winners. For more information visit: all-americanselections.org

Here are the AAS winners planted in the NDSU trials in 2023:

2019 Winners:	2021 Winner:
<i>Begonia</i> 'Viking™ XL Red on Chocolate'	Zinnia 'Profusion Red Yellow Bicolor'
<i>Catharanthus</i> (Vinca) 'Mega Bloom Polka Dot'	
Petunia 'Wave® Carmine Velour'	2022 Winners :
<i>Tagetes</i> (Marigold) 'Big Duck Gold'	<i>Begonia</i> 'Viking Explorer Rose on Green'
<i>Tagetes</i> (Marigold) 'Big Duck Orange'	Celosia 'Flamma Orange'
<i>Tagetes</i> (Marigold) 'Big Duck Yellow'	<i>Helianthus</i> (Sunflower) 'Concert Bell'
<i>Tagetes</i> (Marigold) 'Garuda Deep Gold'	Petunia 'Bee's Knees'
<i>Tropaeolum</i> (Nasturtium) 'Baby Rose'	<i>Verbena</i> 'Vanity'
Zinnia 'Holi Scarlet'	
	2023 Winners:
2020 Winner:	<i>Antirrhinum</i> (Snapdragon) 'DoubleShot™ Orange Bicolor'
<i>Rudbeckia</i> 'Amarillo Gold'	<i>Plectranthus</i> (Coleus) 'Premium Sun Coral Candy'

Acknowledgements

'Thank you' to supporters of the 2023 gardens including All-America Selections and Ball Horticultural Company. We are grateful for the support of these companies and hope information from our gardens is beneficial in their research for new and improved cultivars.

I'd also like to extend a special 'thank you' to Esther McGinnis, coordinator of the Master Gardener (MG) program, and the MG volunteers who provided over 150 hours of service from May through October. Their help, from spring clean-up to planting the trial gardens to summer maintenance and fall clean-up, is greatly appreciated. 'Thank you' also to Shauna Pederson Dubuque, our seasonal employee, for helping to keep things running smoothly throughout the summer.

Contact Information

For more information about the Horticultural Demonstration and Research plots at North Dakota State University, visit <https://www.ndsu.edu/agriculture/academics/academic-units/plant-sciences/research/horticulture-research-demonstration-gardens> or contact:

Barb Laschkewitsch
Department of Plant Sciences
NDSU Dept. 7670, PO Box 6050
Fargo, ND 58105-6050
Phone: 701-231-7484
E-mail: barbara.laschkewitsc@ndsu.edu



Agastache x hybrida 'Arizona™ Sandstone'

seed source: Park Seed



July 27 Height: 9-10" Spread: 6-9"



Sept. 6 Height: 10-11" Spread: 13-18"

Six plants were in the trials. This did alright but wasn't as vigorous or uniform as 'Arizona™ Sunset'. *Agastache* were started in the greenhouse on March 2.

Agastache x hybrida 'Arizona™ Sunset'

seed source: Park Seed



July 27 Height: 9-10" Spread: 10-12"



Sept. 6 Height: 10-11" Spread: 16-17"

Six plants were in the trials. Very nice all season.

Agastache rupestris Giant Hyssop

seed source: Park Seed



July 27 Height: 16-20" Spread: 12-14"



Sept. 6 Height: 23-25" Spread: 20-22"

Six plants were in the trials. Very nice all season. This received 1 'flag' vote during garden day in July.

Ageratum houstonianum 'Aloha Blue'

seed source: Park Seed



July 27 Height: 5-6" Spread: 12"



Sept. 6 Height: 5-6" Spread: 14-18"

Six plants were in the trials. Very nice early but bloom declined a bit by September. This received 1 'flag' vote during July garden day. All *Ageratum* were started in the greenhouse on March 13.

Ageratum houstonianum 'Tall Blue Planet'

seed source: Johnny's Selected Seeds



July 27 Height: 14-16" Spread: 12-22"



Sept. 6 Height: 13-18" Spread: 28-30"

Six plants in the trials. Nice bloom but there were some size differences.

Ageratum houstonianum 'Timeless Mix'

seed source: Johnny's Selected Seeds



July 27 Height: 18-20" Spread: to 24"



Sept. 6 Height: 24-32" Spread: 28-30"

Twelve plants in the trials. They weren't uniform in bloom or size. There was also one big plant that never bloomed.

Amaranthus cruentus 'Autumn's Touch'

seed source: Park Seed



July 27 Height: to 40" Spread: to 36"



Sept. 6 Height: to 44" Spread: to 48"

Six of these were in the trials. Nice with good vigor all season.

Amaranthus cruentus 'Red Spike'

seed source: Johnny's Selected Seeds



July 27 Height: to 42" Spread: to 36"



Sept. 7 Height: to 44" Spread: to 48"

Six of these were in the trials. Nice with good vigor. These got 2 'flag' votes during garden day in July.

Amaranthus tricolor 'Perfecta'

seed source: Park Seed



July 27 Height: 24-34" Spread: 20-30"



Sept. 6 Dead

Six of these were in the trials. They looked nice early but were dead by the end of August.

Angelonia angustifolia 'Serena Mix'

seed source: Park Seed



July 27 Height: 9-10" Spread: 9-12"

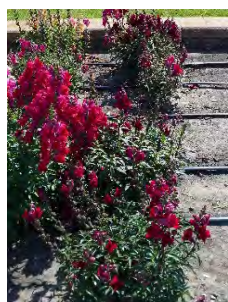


Sept. 6 Height: 10-13" Spread: 10-19"

Twelve of these were in the trials. Nice bloom all season but there were some size differences and one plant died. Angelonia were started in the greenhouse on March 2.

Antirrhinum majus (Snapdragon) 'Black Prince'

seed source: Park Seed



July 27 Height: 12-16" Spread: 8-14"



Sept. 6 Height: 14-18" Spread: 18-20"

Six of these were in the trials. Looked nice all season. Received 1 'flag' vote during garden day in July. All snapdragons were started from seed in the greenhouse on March 28.

Antirrhinum majus (Snapdragon) 'Circus Clowns Mix'

seed source: Park Seeds



July 27 Height: 14-24" Spread: 8-15"



Sept. 6 Height: 15-29" Spread: 16-18"

Twelve of these were in the trials. Looked good all season but there were some size differences.

Antirrhinum majus (Snapdragon) 'DoubleShot™ Orange Bicolor'

seed source: All-America Selections



July 27 Height: 12-14" Spread: 8-12"



Sept. 6 Height: 15-18" Spread: 15-18"

2023 All-America Selections Flower from Seed Winner. Twelve of these were in the trials. Nice all season but was especially full in late August. Received 1 'flag' vote during July garden day.

Antirrhinum majus (Snapdragon) 'Johnny's Potomac Custom Mix'

seed source: Johnny's Selected Seeds



July 27 Height: 16-20" Spread: 8-12"



Sept. 6 Height: to 30" Spread: 15-20"

Twelve of these were in the trials. These looked nice but the stems were falling over more than the other snapdragons.

Antirrhinum majus (Snapdragon) 'Rocket Hybrid Mix'

seed source: Johnny's Selected Seeds



July 27 Height: 16-22" Spread: 8-14"



Sept. 6 Height: to 28" Spread: 15-20"

Twelve of these were in the trials. Very nice in July with a decrease in bloom by September. These received 6 'flag' votes during the garden day in July.

Antirrhinum majus (Snapdragon) 'Sonnet Mix'

seed source: Park Seed



July 27 Height: 9-16" Spread: 6-12"



Sept. 6 Height: 14-22" Spread: 9-11"

Twelve of these were in the trials. This had nice bloom early and then later in the season. There were some size differences.

Antirrhinum majus (Snapdragon) 'Snaptini™ Mix'

seed source: Park Seed



July 27 Height: 4-8" Spread: 7-12"



Sept. 6 Height: 5-9" Spread: 11-18"

Twelve of these were in the trials. Very good bloom all season but there were size differences. This received 1 'flag' vote during the July garden day.

Antirrhinum majus (Snapdragon) 'Twinny Appleblossom'

seed source: Park Seed



July 27 Height: 8-10" Spread: 8-15"



Sept. 6 Height: 9-13" Spread: 11-14"

Six of these were in the trials. Nice bloom all season but there were some size differences. This received 1 'flag' vote during the July garden day.

Asclepias curassavica 'Apollo Orange'

seed source: Johnny's Selected Seeds



July 27 Height: 25-27" Spread: 15-18"



Sept. 6 Height: 36-40" Spread: to 24"

Three plants were in the trials. Good vigor but slow to bloom.

Asclepias curassavica 'Red Butterfly'

seed source: Burpee



July 27 Height: 25" Spread: 18"

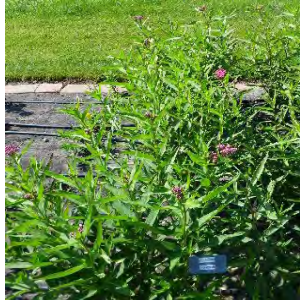


Sept. 6 Height: 36" Spread: to 24"

Only 1 plant in the trials. Did well all season.

Asclepias incarnata 'Soulmate'

seed source: Johnny's Selected Seeds



July 27 Height: 25-27" Spread: 14-23"



Sept. 6 Height: to 48" Spread: 36-40"

Six of these were in the trials. Good vigor but slow to bloom. There were some size differences early.

Asclepias tuberosa 'Hello Yellow'

seed source: Park Seed



July 27 Height: 8-10" Spread: 6-8"



Sept. 6 Height: 6-8" Spread: 8-10"

Six of these were in the trials. Not much bloom or vigor. Also overshadowed by *Asclepias* 'Soulmate'.

Asparagus densiflorus Sprengeri 'FuzzyFern Frizz'

seed source: PanAmerican Seed



July 27 Height: 3-4" Spread: 6-8"



Sept. 6 Height: 4-5" Spread: 8-10"

These were planted in the cement planters along with gaura and geraniums. They were slow to grow but did alright. They were started in the greenhouse on February 9.

Begonia x hybrida 'BabyWing® Red Bronze Leaf'

seed source: PanAmerican Seed



July 27 Height: 6-8" Spread: 9-11"

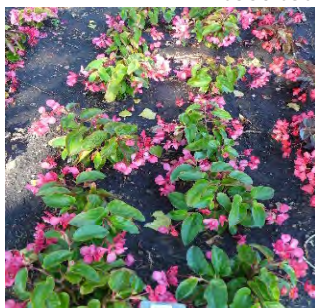


Sept. 6 Height: 7-9" Spread: 7-12"

Twelve of these were in the trials. They were very floriferous and uniform all season. All begonias (except the 'Viking™' cultivars) were seeded in the greenhouse on Feb. 3.

Begonia x hybrida 'Dragon Wing® Pink'

seed source: PanAmerican Seed



July 27 Height: 6-7" Spread: 10-12"

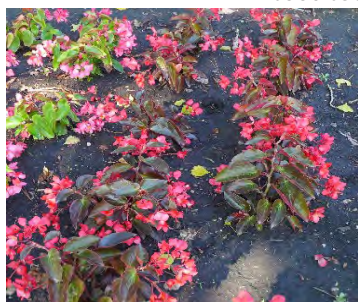


Sept. 6 Height: 9-11" Spread: 13-15"

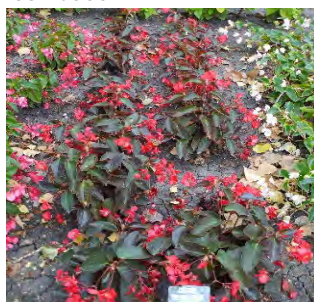
Twelve of these were in the trials. They did well all season.

Begonia x hybrida 'Dragon Wing® Red Bronze Leaf'

seed source: PanAmerican Seed



July 27 Height: 5-8" Spread: 10-15"



Sept. 6 Height: 9-11" Spread: 13-15"

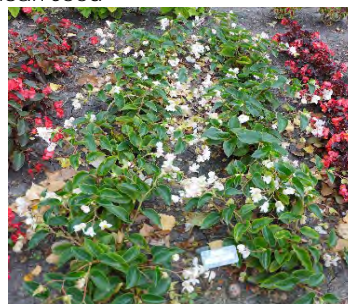
There were twelve plants in the trials but one disappeared soon after planting. They did well all season.

Begonia x hybrida 'Dragon Wing® White'

seed source: PanAmerican Seed



July 27 Height: 5-8" Spread: 12-16"



Sept. 6 Height: 9-11" Spread: 15-20"

Twelve of these were in the trials. They did well all season.

Begonia x hybrida 'Viking™ XL Red on Chocolate'

seed source: All-America Selections



July 27 Height: 6-7" Spread: 10-12"

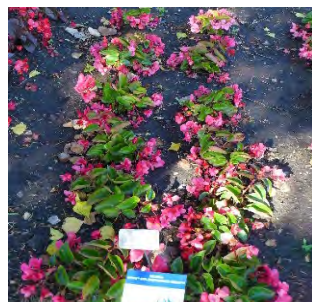


Sept. 6 Height: 7-9" Spread: 10-13"

2019 All-America Selections (AAS) Flower Winner. Twelve of these were in the trials. Very uniform plants that did well all season. The 'Viking™' begonias were seeded in the greenhouse on January 19.

Begonia x hybrida 'Viking™ Explorer Rose on Green'

seed source: All-America Selections



July 27 Height: 3-4" Spread: 10-12"

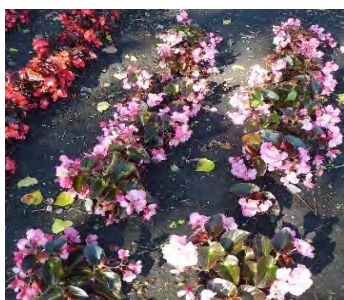


Sept. 6 Height: 5-7" Spread: 10-13"

2022 All-America Selections (AAS) Gold Medal Flower Winner. Twelve plants were in the trials. These looked nice all season.

Begonia interspecific 'Megawatt™ Pink Bronze Leaf'

seed source: PanAmerican Seed



July 27 Height: 4-7" Spread: 6-13"



Sept. 6 Height: 8-12" Spread: 8-14"

Twelve plants were in the trials. They looked good but there were size differences noted all season.

Begonia interspecific 'Megawatt™ Pink Green Leaf'

seed source: PanAmerican Seed



July 27 Height: 7-10" Spread: 9-15"

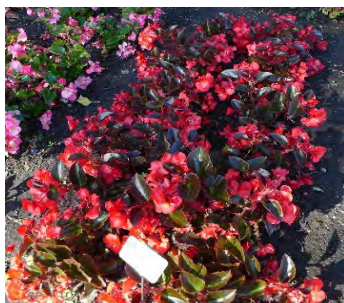


Sept. 6 Height: 14-15" Spread: 12-14"

Twelve plants were in the trials. There were some size differences noted early but the plants filled in nicely by the end of August.

Begonia interspecific 'Megawatt™ Red Bronze Leaf'

seed source: PanAmerican Seed



July 27 Height: 6-10" Spread: 8-13"

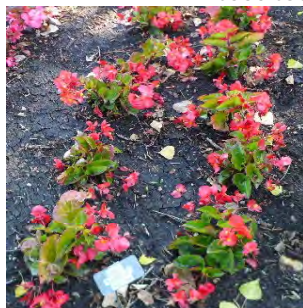


Sept. 6 Height: 13-15" Spread: 12-14"

Twelve plants were in the trials. This was one of the more vigorous begonias in the trials. It was nice and full, especially later in the summer.

Begonia interspecific 'Megawatt™ Red Green Leaf'

seed source: PanAmerican Seed



July 27 Height: 3-5" Spread: 9-12"



Sept. 6 Height: 7-10" Spread: 7-12"

Twelve plants were in the trials. These did well all summer.

Begonia interspecific 'Megawatt™ Rose Bronze Leaf Improved'

seed source: PanAmerican Seed



July 27 Height: 5-6" Spread: 9-12"



Sept. 6 Height: 7-10" Spread: 8-12"

Twelve plants were in the trials. These looked good all summer.

Begonia interspecific 'Megawatt™ Rose Green Leaf'

seed source: PanAmerican Seed



July 27 Height: 3-6" Spread: 10-12"



Sept. 6 Height: 7-11" Spread: 9-12"

Twelve plants were in the trials. These looked good all summer.

Begonia interspecific 'Megawatt™ White Green Leaf'

seed source: PanAmerican Seed



July 27 Height: 5-8" Spread: 10-12"



Sept. 6 Height: 7-11" Spread: 10-15"

Twelve plants were in the trials. These looked good throughout the summer.

Calendula officinalis 'Oktoberfest'

seed source: Burpee



July 27 Height: 22-24" Spread: 30-36"



Sept. 6 Height: to 30" Spread: 33-36"

Six plants in the trials. Very nice in July but past peak bloom by September. This received 1 'flag' vote during garden day in July. *Calendula* were started in the greenhouse on April 3.

Calendula officinalis 'Pacific Beauty Mix'

seed source: Park Seed



July 27 Height: 22-24" Spread: 28-30"



Sept. 6 Height: to 30" Spread: 33-36"

Twelve plants in the trials. Very nice bloom early but was done by September. This received 1 'flag' vote during garden day in July.

Caryopteris x clandonensis 'Emerald Crest'

plant source: Darwin Perennials



July 27 Height: 18-20" Spread: 20-22"



Sept. 6 Height: 23-25" Spread: 31-32"

Six plants were in the trials. Very uniform and vigorous. Didn't bloom until late August but was covered in pollinators when it was blooming.

Caryopteris x clandonensis 'Gold Crest'

plant source: Darwin Perennials



July 27 Height: 15-16" Spread: 19-21"



Sept. 6 Height: 22-24" Spread: 31-32"

Six plants in the trials. Nice vigor and bright green color but didn't start blooming until September.

Catharanthus roseus (Vinca) 'Cora XDR Mix'

seed source: Park Seed



July 27 Height: 9-13" Spread: 10-13"



Sept. 6 Height: 13-15" Spread: 22-24"

Twelve plants were in the trials. Nice all season with good bloom but there was some disease in September. All vinca were started in the greenhouse on March 2.

Catharanthus roseus (Vinca) 'Jaio Dark Red'

seed source: Park Seed



July 27 Height: 11-14" Spread: 10-14"



Sept. 6 Height: 18-19" Spread: 28-30"

Six plants in the trials. Good bloom all season but there were some size differences early.

Catharanthus roseus (Vinca) 'Mega Bloom Polka Dot'

seed source: All-America Selections



July 27 Height: 12" Spread: 14"



Sept. 6 Height: 13-15" Spread: 22-24"

2019 All-America Selections (AAS) Flower Winner. Twelve plants were in the trials. Good bloom all season but some disease showed up in September.

Catharanthus roseus (Vinca) 'Pacifica Mix'

seed source: Park Seed



July 27 Height: 9-11" Spread: 10-17"



Sept. 6 Height: 13-17" Spread: 14-20"

Twelve plants were in the trials. Nice bloom all season but there were some size differences. There was also some disease showing up in September.

Catharanthus roseus (Vinca) 'Tattoo Black Cherry'

seed source: Park Seed



July 27 Height: 9-10" Spread: 9-11"



Sept. 6 Height: 11-13" Spread: 18-20"

Six plants in the trials. Nice all season with good bloom and vigor.

Catharanthus roseus (Vinca) 'Vitesse™ Patriot Mix'

seed source: Park Seed



July 27 Height: 10-12" Spread: 13-15"



Sept. 6 Height: 14-18" Spread: 20-24"

Twelve plants in the trials. Very nice all season with good bloom and vigor.

Celosia argentea 'Bright Sparks™ Mix' (plumosa group)

seed source: Park Seed



July 27 Height: 10-16" Spread: 10-12"



Sept. 6 Height: 8-18" Spread: 10-22"

Twelve plants were put in but 3 were stolen after planting. Bloom was good but there were some size differences. This received 3 'flag' votes during garden day in July.

Celosia argentea 'Celway™ Red' (spicata group)

seed source: Johnny's Selected Seeds



July 27 Height: to 29" Spread: 12-18"



Sept. 6 Height: 27-30" Spread: to 24"

Six plants in the trials. Nice but not uniform in size or bloom.

Celosia argentea 'First Flame™ Purple' (plumosa group)

seed source: Park Seed



July 27 Height: 9-11" Spread: 6-11"



Sept. 6 Height: 10-15" Spread: 10-14"

Six plants in the trials. Bloom was good but there were some size differences.

Celosia argentea 'Flamingo Feather' (spicata group)

seed source: Johnny's Selected Seeds



July 27 Height: to 36" Spread: 18-20"



Sept. 6 Height: 36-40" Spread: 22-30"

Four plants in trials. Nice bloom and vigor all season. Received 1 'flag' vote during garden day in July.

Celosia argentea 'Flamma Orange' (plumosa group)

seed source: All-America Selections



July 27 Height: 12-15" Spread: 11-16"



Sept. 6 Height: 10-18" Spread: 10-16"

2022 All-America Selections (AAS) Flowers From Seed Winner. Twelve plants were in the trials. There were some size differences early but it looked very nice August and September.

Celosia argentea 'Ruby Parfait' (spicata group)

seed source: Johnny's Selected Seeds



July 27 Height: to 27" Spread: to 22"



Sept. 6 Height: 23-29" Spread: to 30"

Six plants in the trials. This did well all season with good bloom and vigor. This received 6 'flag' votes on garden day in July.

Celosia argentea 'Sol™ Gekko Green'

seed source: Burpee



July 27 Height: 13-15" Spread: 10-13"



Sept. 6 Height: 12-13" Spread: 16-17"

Six plants in the trials. Very good bloom and uniformity all season. This received 5 'flag' votes during the July garden day. All celosia were started in the greenhouse on March 20.

Celosia argentea 'Sol™ Lizzard Leaf'

seed source: Burpee



July 27 Height: 9-10" Spread: 9-11"



Sept. 6 Height: 8-10" Spread: 8-10"

Six plants were in the trials. Interesting foliage color which is the same as the flowers. This received 1 'flag' vote during July garden day.

Celosia argentea 'Sunday™ Mix' (plumosa group)

seed source: Johnny's Selected Seeds



July 27 Height: 20-34" Spread: 15-20"



Sept. 6 Height: 18-26" Spread: to 25"

Twelve plants in the trials. Nice color mix but some size and bloom differences.

Centaurea cyanus 'Classic Magic Mix'

seed source: Johnny's Selected Seeds



July 27 Height: 20-24" Spread: 18-20"



Sept. 6 Height: 22-25" Spread: 20-23"

Twelve plants in the trials. Not uniform in size but bloom good all year. This received 3 'flag' votes during garden day in July. *Centaurea* were started in the greenhouse on April 13.

Centaurea cyanus 'Polka Dot Mix'

seed source: Park Seed



July 27 Height: 12-16" Spread: 10-14"



Sept. 6 Height: 15-18" Spread: 12-15"

Twelve plants in the trials. Did well all season but there was some disease showing up in September. This received 1 'flag' vote during garden day in July.

Centaurea regusina 'Silver Swirl'

plant source: Darwin Perennials



July 27 Height: 8-9" Spread: 10-12"



Sept. 6 Height: 10-11" Spread: 12-15"

Six plants were in the trials. Nice, uniform foliage plant.

Chrysanthemum carinatum Tricolor Daisy

seed source: Burpee



July 27 Height: 15-22" Spread: 13-18"



Sept. 6 Height: 24-36" Spread: 20-30"

Six plants in the trials but one died. Not uniform in size or bloom. This received 1 'flag' vote on garden day in July. These were started in the greenhouse on March 20.

Clarkia unguiculata 'Elegant Salmon'

seed source: Johnny's Selected Seeds



July 27 Height: 6-17" Spread: 8-11"



Sept. 6 Dead

Four plants in the trials. Not much vigor and all plants dead by September. *Clarkia* was started in the greenhouse April 13.

Clarkia unguiculata Mountain Garland

seed source: Park Seed



July 27 Height: 6-12" Spread: 8-11"



Sept. 6 Dead

Six plants were in the trials. Not much vigor and all plants were dead by September.

Cleome hassleriana 'Sparkler Mix'

seed source: Park Seed



July 27 Height: to 32" Spread: 12-16"



Sept. 6 Height: to 33" Spread: 24-30"

Twelve plants were in the trials. Very nice early but got spider mites in August which caused a loss of vigor. This received 3 'flag' votes during garden day in July. *Cleome* was started on March 2.

Cleome hassleriana 'Sparkler Rose'

seed source: Park Seed



July 27 Height: to 30" Spread: to 21"



Sept. 6 Height: to 30" Spread: to 30"

Six plants were in the trials. Very nice early in the season but got a bad case of spider mites in August which caused loss of vigor.

Coreopsis grandiflora 'Double the Sun'

seed source: PanAmerican Seed



July 27 Height: 9-11" Spread: 10-12"



Sept. 6 Height: 8-11" Spread: 14-16"

Five plants in the trials. Bloom was best early in the season. This was started in the greenhouse on January 19.

Cosmos bipinnatus 'Cupcakes White'

seed source: Johnny's Selected Seeds



July 27 Height: 31-36" Spread: to 24"



Sept. 6 Height: to 36" Spread: to 40"

Six plants in the trials. Not many flowers in July but plants were vigorous. Bloom was good in September but there was some disease. This received 4 'flag' votes in July and seed was started on April 13.

Cuphea procumbens 'Sweet Talk Lavender Splash'

seed source: PanAmerican Seed



July 27 Height: 13-15" Spread: 13-15"



Sept. 6 Height: 15-17" Spread: 20-24"

Twelve plants in the trials. Nice bloom and vigor all season but there were some aphid problems in July. The *Cuphea* were started in the greenhouse on March 28.

Cuphea procumbens 'Sweet Talk Pink Deep'

seed source: PanAmerican Seed



July 27 Height: 16-18" Spread: 14-16"



Sept. 6 Height: 15-20" Spread: 20-24"

Twelve plants in the trials. Nice bloom and vigor all season but there were some aphid problems in July.

Cuphea procumbens 'Sweet Talk Red'

seed source: PanAmerican Seed



July 27 Height: 16-18" Spread: 14-16"

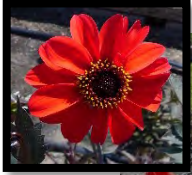


Sept. 6 Height: 15-20" Spread: 20-24"

Twelve plants in the trials. Nice bloom and vigor all season but there were some aphid problems in July.

Dahlia x hybrida 'Bishop's Children'

seed source: Park Seed



July 27 Height: 21-34" Spread: 18-22"



Sept. 6 Height: to 48" Spread: 24-30"

Eight plants in the trials. Good vigor all season but bloom was best after July. There was some powdery mildew showing up in September. These were started in the greenhouse on March 24.

Dahlia x hybrida 'Firepot'

bulb source: Park Seed



July 27 Height: 32" Spread: 24"



Sept. 6 Height: 30" Spread: to 40"

One plant in the trials. Nice bloom and vigor all season. This received 7 'flag' votes during garden day in July. This was potted when received in early May and then planted into the garden.

Dianthus interspecific 'Supra Pink'

seed source: All-America Selections



July 27 Height: 8-10" Spread: 8-12"

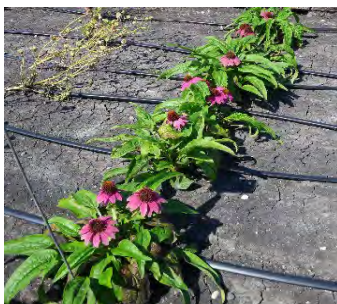


Sept. 6 Height: 9-13" Spread: 11-15"

Six plants in the trials. Bloom was much better in July than September. This received 5 'flag' votes during July garden day. They were started in the greenhouse on March 13.

Echinacea purpurea 'PowWow Wild Berry'

seed source: Park Seed



July 27 Height: 8-9" Spread: 10-12"



Sept. 6 Height: 7-12" Spread: 11-15"

Six plants were in the trials. These had differences in size and bloom all season. They were started in the greenhouse on January 19.

Euphorbia marginata Mountain Snow

seed source: Johnny's Selected Seeds



July 27 Height: 32-38" Spread: 27-30"



Sept. 6 Height: 30-40" Spread: 36-40"

There were 9 plants in several different locations in the trials. Used supports for these again this year to keep them from falling over. Received 1 'flag' vote during garden day in July. Started on February 9.

Eustoma grandiflorum (Lisianthus) 'Arena III Apricot'

seed source: Johnny's Selected Seeds



July 27 Height: 13-15" Spread: 6-8"



Sept. 6 Height: 14-25" Spread: 11-18"

Twelve plants in the trials. This one didn't do as well as the other lisianthus but still received 2 'flag' votes during the July garden day. All lisianthus were started in the greenhouse on January 4.

Eustoma grandiflorum (Lisianthus) 'Arena III Red'

seed source: Johnny's Selected Seeds



July 27 Height: 12-21" Spread: 6-10"



Sept. 6 Height: 16-27" Spread: 12-15"

Twelve plants in the trials. Looked nicest in September with good bloom and vigor. This received 1 'flag' vote during July garden day.

Eustoma grandiflorum (Lisianthus) 'Cessna Rose'

seed source: Park Seed



July 27 Height: 12-21" Spread: 4-12"



Sept. 6 Height: 19-25" Spread: 10-12"

Twelve plants were in the trials. Not quite as floriferous as 'Cessna White'. These stems were also falling over by September. This received 4 'flag' votes during the garden day in July.

Eustoma grandiflorum (Lisianthus) 'Cessna White'

seed source: Park Seed



July 27 Height: 15-20" Spread: 9-14"



Sept. 6 Height: 20-25" Spread: 10-12"

Twelve plants were in the trials. Good bloom all season but some of the stems were falling over by September.

Eustoma grandiflorum (Lisianthus) 'Voyage 2 Blue'

seed source: Johnny's Selected Seeds



July 27 Height: 13-15" Spread: 6-10"



Sept. 6 Height: 12-20" Spread: 9-12"

Twelve plants were in the trials. Very nice in both July and September with good bloom and vigor. This received 3 'flag' votes during garden day in July.

Eustoma grandiflorum (Lisianthus) 'Voyage 2 Champagne'

seed source: Johnny's Selected Seeds



July 27 Height: 19-20" Spread: 8-12"



Sept. 6 Height: 2-23" Spread: 3-12"

Twelve plants were in the trials. Very nice in July with good bloom and vigor. This received 5 'flag' votes during garden day in July.

Eustoma grandiflorum (Lisianthus) 'Voyage 2 Lavender'

seed source: Johnny's Selected Seeds



July 27 Height: 14-17" Spread: 8-10"



Sept. 6 Height: 22-25" Spread: 15-18"

Twelve plants were in the trials. Bloom was not very uniform early but improved by September. This received 1 'flag' vote during garden day in July.

Eustoma grandiflorum (Lisianthus) 'Voyage 2 Light Apricot'

seed source: Johnny's Selected Seeds



July 27 Height: 10-16" Spread: 7-9"



Sept. 6 Height: 16-18" Spread: 11-14"

Twelve plants were in the trials. Not as floriferous as other lisianthus early but very nice by September.

Eustoma grandiflorum (Lisianthus) 'Voyage 2 Pink Improved'

seed source: Johnny's Selected Seeds



July 27 Height: 10-16" Spread: 7-9"



Sept. 6 Height: 16-21" Spread: 10-13"

Twelve plants were in the trials. There were some differences in bloom time over the season but the plants were very full in September. This received 1 'flag' vote during garden day in July.

Gaillardia grandiflora 'Arizona Apricot'

seed source: Park Seed



July 27 Height: 7-13" Spread: 6-12"



Sept. 6 Height: 10-13" Spread: 10-23"

Six plants were in the trials. Bloom was nice but there were differences in size. Gaillardia was started in the greenhouse on March 28.

Gaillardia grandiflora 'Arizona Red Shades'

seed source: Park Seed



July 27 Height: 5-9" Spread: 6-10"



Sept. 6 Height: 7-10" Spread: 10-15"

Twelve plants in the trial but one of them died right away. Not uniform in size all season. Bloom was best in August and September.

Gaura lindheimeri 'Sparkle White'

seed source: Park Seed



July 27 Height: 28" Spread: 28"



Sept. 6 Height: 28-30" Spread: 28-30"

These plants were in different areas of the beds. They did well all season and were started in the greenhouse on February 9.

Gladiolus dalenii 'Parrot Mix'

corm source: Park Seed



July 27 Height: 23-24" Spread: 6-10"



Sept. 6 Height: to 40" Spread: 8-12"

Ten plants in the trials. Planted corms on June 1. Didn't bloom until August.

Gomphrena globosa 'Audray Purple-Red'

seed source: Johnny's Selected Seeds



July 27 Height: 20-21" Spread: 22-24"



Sept. 6 Height: 25-30" Spread: to 30"

Six plants in the trials. Nice bloom and vigor all season. Received 1 'flag' vote in July. All gomphrena were seeded in the greenhouse on April 3.

Gomphrena globosa 'Las Vegas Mix'

seed source: Park Seed



July 27 Height: 14-21" Spread: 14-20"



Sept. 6 Height: 15-24" Spread: 20-30"

Twelve plants in the trials but one died before September. Good bloom but there were size and vigor differences. Received 1 'flag' vote during garden day in July.

Gomphrena globosa 'QIS™ Carmine'

seed source: Johnny's Selected Seeds



July 27 Height: 16-17" Spread: 18-20"



Sept. 6 Height: 25-30" Spread: to 36"

Six plants in the trials. Did well all season with good bloom and vigor. Received 2 'flag' votes during garden day in July.

Gomphrena globosa 'QIS™ Orange'

seed source: Johnny's Selected Seeds



July 27 Height: 16-18" Spread: 18-20"



Sept. 6 Height: 25-30" Spread: to 30"

Six plants in the trials. Nice all season with good bloom and vigor. Received 2 'flag' votes during garden day in July.

Gomphrena globosa 'Raspberry Cream'

seed source: Johnny's Selected Seeds



July 27 Height: 18-20" Spread: 24-25"



Sept. 6 Height: 25-28" Spread: to 30"

Six plants in the trials. It was nice all season with good bloom and vigor.

Gomphrena globosa 'Strawberry Fields'

seed source: Park Seed



July 27 Height: 18-20" Spread: 22-24"



Sept. 6 Height: to 32" Spread: to 36"

Six plants in the trials. Did well all season although it had some aphids in July. This received 1 'flag' vote during garden day in July.

Helianthus annuus (Sunflower) 'Concert Bell'

seed source: All-America Selections



July 27 Height: 48-50" Spread: 10-12"



Sept. 6 Height: 60-96" Spread: 20-24"

2022 All-America Selections (AAS) Flower From Seed Winner. This was direct seeded on June 5 so there were about 24 plants in the trials. It did well initially but succumbed to bugs and disease in September.

Hibiscus moscheutos 'Honeymoon Deep Red'

seed source: Park Seed



July 27 Height: 15-17" Spread: 18-22"



Sept. 6 Height: 23-24" Spread: 25-30"

Eight plants in the trials. Very nice but slow to bloom. This received 1 'flag' vote during garden days in July. Hibiscus was started in the greenhouse on March 14.

Hibiscus moscheutos 'Luna™ Mix'

seed source: Park Seed



July 27 Height: 15-17" Spread: 18-21"



Sept. 6 Height: 23-24" Spread: 25-30"

Four plants in the trials. Very nice but slow to bloom. This received 6 'flag' votes during garden day in July.

Impatiens hybrida 'Solarscape™ Magenta Bliss'

seed source: PanAmerican Seed



July 27 Height: 6-7" Spread: 7-12"



Sept. 6 Height: 22" Spread: 25"

Twelve plants in the trials. Nice all season but top performer by September. These were started in the greenhouse on April 13.

Impatiens hybrida 'Solarscape™ Orange Burst'

seed source: PanAmerican Seed



July 27 Height: 6-7" Spread: 11-14"



Sept. 6 Height: 14-15" Spread: 26-30"

Twelve plants in the trials. Nice all season but top performer by September. These were seeded in the greenhouse on February 3.

Impatiens hybrida 'Solarscape™ Voodoo Mix'

seed source: PanAmerican Seed



July 27 Height: 6-7" Spread: 12-15"



Sept. 6 Height: 13-23" Spread: 21-28"

Twelve plants in the trial. Great bloom by September but there were some size differences. These were started in the greenhouse on February 10 and again on March 2.

Impatiens hybrida 'Solarscape™ White Shimmer'

seed source: PanAmerican Seed



July 27 Height: 7-9" Spread: 11-15"



Sept. 6 Height: 10-22" Spread: 16-28"

Twelve plants in the trial. Size and bloom differences all season but filled in nicely by September. These were started in the greenhouse on February 3 and again on March 2.

Impatiens hybrida 'Solarscape™ XL Salmon Glow'

seed source: PanAmerican Seed



July 27 Height: 7-9" Spread: 12-16"



Sept. 6 Height: 15-17" Spread: 29-32"

Twelve plants in the trial. Some size and bloom differences early but filled in nicely. These were started in the greenhouse on February 3.

Impatiens walleriana 'Beacon® Bright Red'

seed source: PanAmerican Seed



July 27 Height: 3-5" Spread: 8-11"

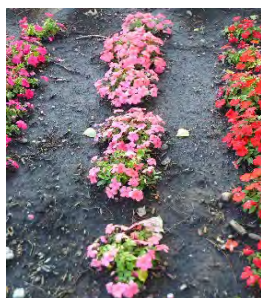


Sept. 6 Height: 4-5" Spread: 8-10"

Six plants in the trials. Bloom was better early in the season. *Impatiens walleriana* were all started in the greenhouse on March 13.

Impatiens walleriana 'Beacon® Coral'

seed source: PanAmerican Seed



July 27 Height: 3-5" Spread: 8-11"

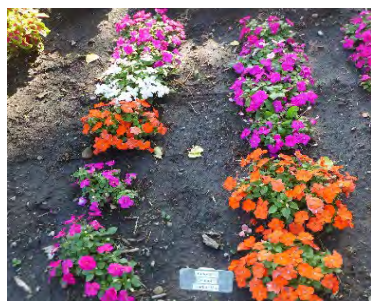


Sept. 6 Height: 4-5" Spread: 8-10"

Six plants in the trials. Nice bloom early but some differences in size.

Impatiens walleriana 'Beacon® Lindau Mix'

seed source: Ball Seed



July 27 Height: 3-5" Spread: 8-13"



Sept. 6 Height: 3-7" Spread: 10-14"

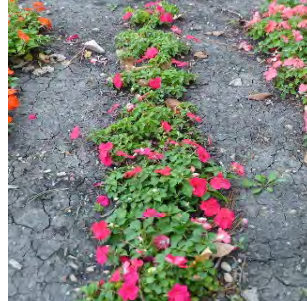
Twelve plants in the trials. One of the more vigorous groups of impatiens this season.

Impatiens walleriana 'Beacon® Lipstick'

seed source: PanAmerican Seed



July 27 Height: 3-4" Spread: 8-12"



July 27 Height: 3-4" Spread: 8-10"

Six plants were in the trials. Bloom was better early in the season.

Impatiens walleriana 'Beacon® Orange'

seed source: PanAmerican Seed



July 27 Height: 3-5" Spread: 10-12"

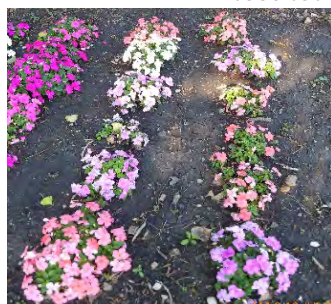


Sept. 6 Height: 4-7" Spread: 8-10"

Six plants in the trials. It had better bloom early in the season.

Impatiens walleriana 'Beacon® Pearl Island Mix'

seed source: PanAmerican Seed



July 27 Height: 2-5" Spread: 7-12"

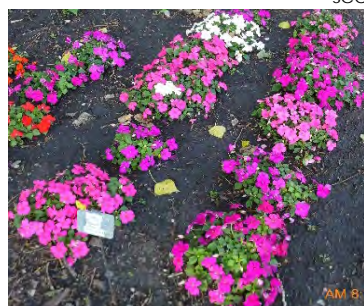


Sept. 6 Height: 3-7" Spread: 6-10"

Twelve plants in the trials. Not too vigorous and there were size differences.

Impatiens walleriana 'Beacon® Portland Mix'

seed source: Ball Seed



July 27 Height: 3-5" Spread: 8-12"



Sept. 6 Height: 4-7" Spread: 8-14"

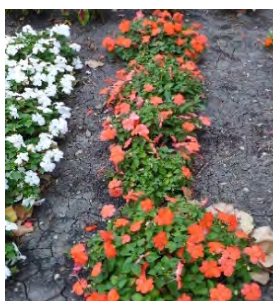
Twelve plants in the trials. Not much color variation and some size differences.

Impatiens walleriana 'Beacon® Salmon'

seed source: PanAmerican Seed



July 27 Height: 2-5" Spread: 8-12"



Sept. 6 Height: 5-7" Spread: 11-16"

Six plants in the trials. Not uniform in size; one plant was considerably smaller than the others.

Impatiens walleriana 'Beacon® Sanibel Mix'

seed source: Ball Seed



July 27 Height: 3-8" Spread: 9-12"



Sept. 6 Height: 3-5" Spread: 8-10"

Twelve plants in the trials. They did ok but weren't very vigorous.

Impatiens walleriana 'Beacon® Violet Shades'

seed source: PanAmerican Seed



July 27 Height: 3-5" Spread: 10-12"

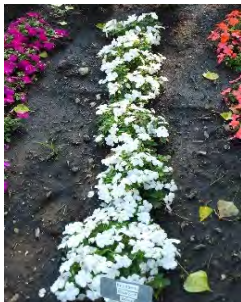


Sept. 6 Height: 5-6" Spread: 12-14"

Six plants in the trials. This was one of the more vigorous impatiens this season.

Impatiens walleriana 'Beacon® White'

seed source: PanAmerican Seed



July 27 Height: 3-5" Spread: 10-12"



Sept. 6 Height: 5-7" Spread: 14-16"

Six plants were in the trials. Good bloom all season.

Impatiens walleriana 'Imara XDR Mix'

seed source: Park Seed



July 27 Height: 3-4" Spread: 6-8"



Sept. 6 Height: 3-15" Spread: 6-10"

Twelve plants were in the trials. Not very vigorous.

Ipomoea batatas 'Bright Ideas Cordata Rusty'

plant source: Horticulture and Forestry Club



July 27 Height: 10" Spread: 21"



Sept. 6 Height: 13-14" Spread: to 36"

Two plants were in the trials. Nice all season but were very full in September.

Ipomoea batatas 'Sidekick Black'

plant source: Horticulture and Forestry Club



July 27 Height: 12-13" Spread: to 24"



Sept. 6 Height: 14-15" Spread: to 36"

Two plants were in the trials. These were nice all season.

Ipomoea batatas 'Sidekick Lime Imp.'

plant source: Horticulture and Forestry Club



July 27 Height: 5-6" Spread: 18-20"



Sept. 6 Height: 9-10" Spread: to 36"

Two plants were in the trials. These did well all season but were nicest in September.

Ipomoea nil 'Scarlet O'Hara'

seed source: Park Seed



July 27 Spreading 24-36"



Sept. 6 Spreading 36-48"

Two groups of 3 plants were in the trials. Very vigorous but not many blooms. These were started in the greenhouse on March 28.

Ipomoea quamoclit Cypress Vine Mix

seed source: Park Seed



July 27 Spreading 24-36"



Sept. 6 Spreading 36-48"

Two groups of 3 were planted in the trials. They were very vigorous but bloom declined by September. They received 4 'flag' votes during garden day in July. These were started in the greenhouse on March 28.

Leucanthemum superbum 'White Breeze'

seed source: Park Seed



July 27 Height: 15-20" Spread: 12-18"



Sept. 6 Height: 22-24" Spread: 18-20"

Six plants were in the trials. These had nice bloom early but weren't uniform in size. Bloom declined by September. These were started in the greenhouse on March 24.

Limonium sinuatum (Statice) 'Johnny's Pastel Mix'

seed source: Johnny's Selected Seeds



July 27 Height: 7-20" Spread: 12-24"



Sept. 6 Height: 19-29" Spread: to 24"

Twelve plants were in the trials. Good vigor but not uniform in bloom or size and some Aster Yellows was showing up in September. Statice was started in the greenhouse on April 3.

Limonium sinuatum (Statice) 'Johnny's Statice Formula Mix'

seed source: Johnny's Selected Seeds



July 27 Height: 7-20" Spread: 12-24"



Sept. 6 Height: 21-36" Spread: to 36"

Twelve plants were in the trials. Good vigor but not uniform in bloom or size.

Linaria maroccana 'Licilia Peach'

seed source: Park Seed



July 27 Height: 8-10" Spread: 10-13"



Sept. 6 Height: 17-18" Spread: 10-12"

Six plants were in the trials. They had decent bloom early but plants declined by September. These were started in the greenhouse on April 13.

Lobelia speciosa 'Starship Blue'

seed source: Park Seed



July 27 Height: 6-13" Spread: 4-12"



Sept. 6 Height: 12-20" Spread: 8-12"

Six plants were in the trials. They had a nice blue color but never thrived. These were started in the greenhouse on March 24.

Lobularia maritima 'Pastel Carpet'

seed source: Park Seed



July 27 Height: 2-4" Spread: 4-6"



Sept. 6 Height: 2-3" Spread: 3-7"

Twelve plants were in the trials. Did not do very well, especially during August which was fairly hot. *Lobularia* was started in the greenhouse on April 3.

Lobularia maritima 'Snow Crystals'

seed source: Park Seed



July 27 Height: 3-6" Spread: 4-12"



Sept. 6 Height: 3-4" Spread: 4-12"

Six plants were in the trials. These usually do very well but not this year. They had little vigor and 2 of the 6 were dead by September.

Matthiola incana 'Harmony Mix'

seed source: Burpee



July 27 Height: 11-17" Spread: 6-10"



Sept. 6 Height: to 26" Spread: 6-8"

Twelve plants were in the trials. Did better than 'Katz Fragrant Mix' but still not very vigorous. *Matthiola* was started in the greenhouse on March 2.

Matthiola incana 'Katz Fragrant Mix'

seed source: Burpee



July 27 Height: 6-14" Spread: 6-10"



Sept. 6 Height: 6-12" Spread: 6-10"

Twelve plants were in the trials. Very poor all summer and most plants were dead by September.

Melinis nerviglumis Savannah Grass

seed source: Johnny's Selected Seeds



July 27 Height: 14-15" Spread: 20-21"



Sept. 6 Height: 22-24" Spread: to 24"

Several groups of 3 plants were in the trials. They did well all season although some were slow to bloom. These were started in the greenhouse on February 3.

Mirabilis jalapa (Four O'Clocks) 'Kaleidoscope Mix'

seed source: Burpee



July 27 Height: 14-20" Spread: 12-15"



Sept. 6 Height: to 19" Spread: to 31"

Twelve of these were in the trials. They looked better in July but overall were not as vigorous as in previous years. *Mirabilis* was started in the greenhouse on March 9.

Mirabilis jalapa (Four O'Clocks) 'Marbles Mix'

seed source: Burpee



July 27 Height: 14-20" Spread: 12-15"



Sept. 6 Height: 13-20" Spread: 28-31"

Seven plants were in the trials. They were not as vigorous this year as they have been in the past. They were smaller with less flowers.

Nemesia cheiranthus 'Masquerade'

seed source: Park Seed



July 27 Height: 8-12" Spread: 4-8"



Sept. 6 Died

Six plants were grown in the trials. They all died over the course of the summer. *Nemesia* was started in the greenhouse on March 28.

Ocimum basilicum (Basil) 'Amethyst Improved'

seed source: Johnny's Selected Seeds



July 27 Height: 19-20" Spread: 15-17"



Sept. 6 Height: 26-28" Spread: 28-30"

Six plants grown in the trials. Nice all season with good bloom and vigor. This received 2 'flag' votes during garden day in July. The basil plants were started in the greenhouse on March 28.

Ocimum basilicum (Basil) 'Aromatto'

seed source: Johnny's Selected Seeds



July 27 Height: 20-24" Spread: to 30"



Sept. 6 Height: 30-33" Spread: to 36"

Six plants in the trials. Good vigor all season but needed some deadheading.

Ocimum basilicum (Basil) 'Everleaf Thai Towers'

seed source: PanAmerican Seed



July 27 Height: 29-32" Spread: 13-15"



Sept. 6 Height: 44-48" Spread: 20-21"

Six plants were in the trials. Very uniform and vigorous all season.

Pelargonium x hortorum (Geranium) 'Big Red'

seed source: Burpee



July 27 Height: 9-11" Spread: 12-16"



Sept. 6 Height: 10-12" Spread: 15-18"

Six plants were in the trials. Nice bloom and vigor all season but bloom was a bit nicer in July. Geraniums were started in the greenhouse on February 9.

Pelargonium x hortorum (Geranium) 'Border Mix'

seed source: Burpee



July 27 Height: 8-14" Spread: 9-14"



Sept. 6 Height: 9-19" Spread: 10-20"

Twelve plants were in the trials. Looked nice but there were differences in size and bloom.

Pelargonium x hortorum (Geranium) 'Maverick Mix'

seed source: Park Seed



July 27 Height: 9-14" Spread: 12-14"



Sept. 6 Height: 10-17" Spread: 16-20"

Twelve plants were in the trials. Nice bloom and color mix but there were differences in size.

Pelargonium x hortorum (Geranium) 'Maverick Orange'

seed source: Park Seed



July 27 Height: 10-11" Spread: 11-13"



Sept. 6 Height: 10-13" Spread: 15-17"

Six plants were in the trials. Looked good all season.

Pelargonium x hortorum (Geranium) 'Maverick White'

seed source: Park Seed



July 27 Height: to 13" Spread: 13-14"



Sept. 6 Height: 18-20" Spread: 23-24"

Six plants were in the trials. Did well all summer but looked especially nice in September.

Pennisetum glaucum 'Purple Majesty'

seed source: Park Seed



July 27 Height: to 48" Spread: to 20"



Sept. 6 Height: to 48" Spread: 18-20"

There were 11 plants in the trials. They did better this year than in past years but stayed about the same vigor and size after July. This received 3 'flag' votes on garden day in July. Seed was started on March 28.

Petunia x hybrida 'Bees Knees'

plant source: All-America Selections



July 27 Height: 6-8" Spread: 12-17"



Sept. 6 Height: 8-10" Spread: 16-19"

2022 All-America Selections(AAS) Flowers From Cuttings Winner. 12 plants were in the trials. Great bloom all season but there were a few size differences. This received 5 'flag' votes during garden day in July.

Petunia x hybrida 'Dreams™ Appleblossom' (Grandiflora)

seed source: Park Seed



July 27 Height: 9-10" Spread: 13-15"



Sept. 6 Height: 6-8" Spread: 14-16"

Six plants were in the trials. This was a top performer all season with good bloom and vigor. All petunias (except 'Bees Knees') were started in the greenhouse March 20.

Petunia x hybrida 'E3 Easy Wave™ Blue' (Spreading)

seed source: PanAmerican Seed



July 27 Height: 8-10" Spread: 14-15"



Sept. 6 Height: 10-15" Spread: 18-20"

Three plants were in the trials. Nice early but disease was showing by September.

Petunia x hybrida 'E3 Easy Wave™ Mix' (Spreading)

seed source: Ball Seed



July 27 Height: 5-10" Spread: 8-13"



Sept. 6 Height: 9-14" Spread: 14-21"

Twelve plants were in the trials. Nice color mix but there were size differences between the plants all season.

Petunia x hybrida 'E3 Easy Wave™ Pink' (Spreading)

seed source: PanAmerican Seed



July 27 Height: 6-7" Spread: 14-18"



Sept. 6 Height: 8-9" Spread: 20-23"

Six plants were in the trials. Top performer early but plants were yellowing by September.

Petunia x hybrida 'E3 Easy Wave™ Pink Cosmo' (Spreading)

seed source: PanAmerican Seed



July 27 Height: 9-11" Spread: 18-20"



Sept. 6 Height: 8-10" Spread: 20-22"

Six plants were in the trials. Top performer all season with good bloom and vigor.

Petunia x hybrida 'E3 Easy Wave™ Red' (Spreading)

seed source: PanAmerican Seed



July 27 Height: 8-10" Spread: 16-18"



Sept. 6 Height: 8-10" Spread: 20-22"

Six plants were in the trials. Top performer early but one plant died in August.

Petunia x hybrida 'E3 Easy Wave™ White' (Spreading)

seed source: PanAmerican Seed



July 27 Height: 9-11" Spread: 18-20"



Sept. 6 Height: 8-10" Spread: 20-22"

Six plants were in the trials. Top performer early but one of the plants died from a fungal disease.

Petunia x hybrida 'Easy Wave™ Beachcomber Mix' (Spreading)

seed source: Park Seed



July 27 Height: 8-9" Spread: 18-20"



Sept. 6 Height: 10-12" Spread: to 36"

Twelve of these were in the trials. Top performer all summer with good bloom and vigor. This received 1 'flag' vote during garden day in July.

Petunia x hybrida 'Easy Wave™ Burgundy Velour' (Spreading)

seed source: Park Seed



July 27 Height: 6-7" Spread: 18-20"



Sept. 6 Height: 12-15" Spread: 36-40"

Six of these were in the trials. Top performer all season with good bloom and vigor. Received 2 'flag' votes during garden days in July.

Petunia x hybrida 'Easy Wave™ Pink Passion' (Spreading)

seed source: Park Seed



July 27 Height: 5-6" Spread: 12-15"



Sept. 6 Height: 9-11" Spread: 36-40"

Six of these were in the trials. Top performer early but some yellowing of the plant by September.

Petunia x hybrida 'Easy Wave™ Rose Fusion' (Spreading)

seed source: Park Seed



July 27 Height: 5-6" Spread: 12-15"



Sept. 6 Height: 8-10" Spread: 24-30"

Six plants were in the trials. Was doing well but got overtaken by the petunias on either side of it.

Petunia x hybrida 'Easy Wave™ Yellow' (Spreading)

seed source: Park Seed



July 27 Height: 6-8" Spread: 12-15"



Sept. 6 Height: 14-16" Spread: 36-38"

Six plants were in the trials. Very vigorous early with good bloom but got overrun by 'Shock Wave Deep Purple'.

Petunia x hybrida 'FlashForward™ Blue' (Spreading-Miniature)

seed source: Park Seed



July 27 Height: 8-9" Spread: 14-15"



Sept. 6 Height: 10-12" Spread: 20-21"

Six of these were in the trials. Top performer all season with good bloom and vigor. The best of the 'Flash Forward' series in the beds.

Petunia x hybrida 'FlashForward™ Pink' (Spreading-Miniature)

seed source: Park Seed



July 27 Height: 4-6" Spread: 8-12"



Sept. 6 Height: 5-6" Spread: 10-14"

Six of these were in the trials. Very good bloom early but there were some differences in size. Plants were yellowing by September.

Petunia x hybrida 'FlashForward™ Red' (Spreading-Miniature)

seed source: Park Seed



July 27 Height: 6-7" Spread: 4-14"



Sept. 6 Height: 6-7" Spread: 18-20"

Six of these were in the trials but one of the plants was really small. Bloom was very good early.

Petunia x hybrida 'FlashForward™ White' (Spreading-Miniature)

seed source: Park Seed



July 27 Height: 8-9" Spread: 14-15"



Sept. 6 Height: 9-10" Spread: 20-22"

Six of these were in the trials. Top performer early but a slight decline in bloom by September.

Petunia x hybrida 'Shock Wave® Deep Purple' (Spreading)

seed source: Park Seed



July 27 Height: 6-8" Spread: 12-14"



Sept. 6 Height: 9-11" Spread: 34-36"

Six of these were in the trials. Top performer all season with good bloom and vigor.

Petunia x hybrida 'Shock Wave® Pink Vein' (Spreading)

seed source: Park Seed



July 27 Height: 6-8" Spread: 14-18"



Sept. 6 Height: 9-11" Spread: 36-40"

Six of these were in the trials. Nice all season with good bloom and vigor. This received 1 'flag' vote during garden day in July.

Petunia x hybrida 'Shock Wave® Volt Mix Improved' (Spreading)

seed source: PanAmerican Seed



July 27 Height: 4-6" Spread: 12-14"



Sept. 6 Height: 8-9" Spread: 32-36"

Twelve of these were in the trials. Some size differences between the colors early but filled in nicely.

Petunia x hybrida 'Shock Wave® White' (Spreading)

seed source: PanAmerican Seed



July 27 Height: 6-8" Spread: 12-13"



Sept. 6 Height: 8-10" Spread: 38-42"

Six of these were in the trials. Not as vigorous as some of the other petunias early but filled in nicely by September.

Petunia x hybrida 'Tidal Wave® Hot Pink' (Hedgiflora)

seed source: Park Seed



July 27 Height: 12-17" Spread: 32-36"



Sept. 6 Height: 14-16" Spread: 36-42"

Six of these were in the trials. Top performer all season with good bloom and vigor. Received 1 'flag' vote during garden days in July.

Petunia x hybrida 'Tidal Wave® Red Velour' (Hedgiflora)

seed source: Park Seed



July 27 Height: 12-17" Spread: 32-36"



Sept. 6 Height: 22-23" Spread: 48-52"

Six of these were in the trials. Top performer all season with good bloom and vigor. This received 2 'flag' votes during garden day in July.

Petunia x hybrida 'Tidal Wave® Silver' (Hedgiflora)

seed source: Park Seed



July 27 Height: 11-17" Spread: 30-34"



Sept. 6 Height: 20-24" Spread: 36-40"

Five of these were in the trials. Top performer all season with good bloom and vigor.

Petunia x hybrida 'Wave® Carmine Velour' (Spreading)

seed source: All-America Selections



July 27 Height: 4-5" Spread: 34-36"



Sept. 6 Height: 5-6" Spread: 48-52"

2019 All-American Selections (AAS) Flower Winner. Six of these were in the trials. Top performer early but plants were yellowing in September.

Petunia x hybrida 'Wave® Purple Improved' (Spreading)

seed source: Park Seed



July 27 Height: 5-6" Spread: 34-36"



Sept. 6 Height: 5-6" Spread: 42-48"

Six of these were in the trials. Top performer early with good bloom and vigor. Some disease was showing up late August and September. This received 1 'flag' vote during garden day in July.

Plectranthus scutellarioides (Coleus) 'Giant Exhibition Complete Mix'

seed source: Park Seed



July 27 Height: 7-14" Spread: 10-19"



Sept. 6 Height: 16-18" Spread: 18-20"

Nineteen plants were in the trials. There were size differences between the different colors and vigor declined by September. All coleus were started in the greenhouse on March 2.

Plectranthus scutellarioides (Coleus) 'Giant Exhibition Limelight'

seed source: Park Seed



July 27 Height: 10-13" Spread: 11-13"



Sept. 6 Height: 16-18" Spread: 18-20"

Fifteen plants were in the trials. Nice early with good vigor and color. Not as vigorous later in the summer.

Plectranthus scutellarioides (Coleus) 'Premium Sun Coral Candy'

seed source: All-America Selections



July 27 Height: 8-9" Spread: 11-14"



Sept. 6 Height: 12-15" Spread: 12-15"

2023 All-America Selections (AAS) Ornamental from Seed Winner. They were planted in the trials in 3 groups of six. These are for full sun and they did well. Color seemed deeper if they received more sun.

Plectranthus scutellarioides (Coleus) 'Watermelon'

seed source: Burpee



July 27 Height: 8-12" Spread: 12-13"



Sept. 6 Height: 13-16" Spread: 15-20"

Eighteen of these were in the trials. They were very nice in July but didn't look as nice by September.

Portulaca grandiflora (Moss Rose) 'Happy Hour™ Mix'

seed source: Park Seed



July 27 Height: 5-8" Spread: 6-14"



Sept. 6 Height: 4-8" Spread: 4-16"

Twelve of these were in the trials. They looked best in July with a decrease in bloom and some disease by the end of August. These were started in the greenhouse on March 28.

Rudbeckia hirta 'Amarillo Gold'

seed source: All-America Selections



July 27 Height: 6-12" Spread: 4-12"



Sept. 6 Height: 6-12" Spread: 3-12"

2020 All-America Selections (AAS) Flower Winner. Twelve plants were in the trials. Flowers were nice but plants weren't uniform or vigorous. This received 1 'flag' vote in July. *Rudbeckia* were started on March 9.

Rudbeckia hirta 'Sputnik'

seed source: Park Seed



July 27 Height: 8-13" Spread: 8-12"



Sept. 6 Height: 8-15" Spread: 10-13"

Six of these were in the trials. The flowers were nice but the plants weren't very vigorous or uniform.

Rudbeckia triloba Brown-eyed Susan

seed source: Johnny's Selected Seeds



July 27 Height: 24-30" Spread: 26-30"



Sept. 6 Height: 46-48" Spread: 36-48"

Six of these were in the trials. This is a perennial in zones 4-8 but being treated as an annual here. It did well although bloom didn't start until early August. It was nice but big by early September.

Salvia farinacea 'Fairy Queen'

seed source: Park Seed



July 27 Height: 18-20" Spread: 13-15"



Sept. 6 Height: 24-26" Spread: 21-23"

Six of these were in the trials. Nice all season with good bloom, vigor and uniformity. All *Salvia* were started in the greenhouse on March 28.

Salvia hybrid 'Big Blue'

seed source: Park Seed



July 27 Height: 18-20" Spread: to 22"



Sept. 6 Height: 36-40" Spread: 34-36"

Six of these were in the trials. Did well all season but bloom was best in August and September.

Salvia splendens 'Vista Red'

seed source: Park Seed



July 27 Height: 12-15" Spread: 10-13"



Sept. 6 Height: 12-16" Spread: 10-14"

Six of these were in the trials. Were nice all season but dead heads detracted in September.

Scabiosa atropurpurea 'Black Knight'

seed source: Johnny's Selected Seeds



July 27 Height: 24-27" Spread: 20-23"



Sept. 6 Height: 30-33" Spread: 22-24"

Six of these were in the trials. They did okay but one plant died before the September evaluation. This received 1 'flag' vote during garden day in July. *Scabiosa* were started in the greenhouse on March 2.

Scabiosa atropurpurea 'Pincushion Formula Mix'

seed source: Johnny's Selected Seeds



July 27 Height: 24-36" Spread: 12-19"



Sept. 6 Height: 30-32" Spread: 22-24"

Twelve plants were in the trials. These did well all season but bloom was better in July than September.

Senecio cineraria (Dusty Miller) 'New Look'

seed source: Johnny's Selected Seeds



July 27 Height: 7-9" Spread: 10-12"



Sept. 6 Height: 8-10" Spread: 9-15"

Six plants were in the trials. These did well although there were some size differences. *Senecio* seeds were started in the greenhouse on March 2.

Senecio cineraria (Dusty Miller) 'Silverdust'

seed source: Johnny's Selected Seeds



July 27 Height: 8-9" Spread: 10-11"



Sept. 6 Height: 10-12" Spread: 12-15"

Six plants were in the trials. These did well but were especially nice into August and September.

Tagetes erecta (American Marigold) 'Big Duck Gold'

seed source: All-America Selections



July 27 Height: 14-19" Spread: 8-16"



Sept. 6 Height: 21-25" Spread: 18-22"

2019 All-America Selections (AAS) Flower Winner. Twelve plants were in the trials. Looked best in August and September. All marigolds were started in the greenhouse on April 13.

Tagetes erecta (American Marigold) 'Big Duck Orange'

seed source: All-America Selections



July 27 Height: 16-18" Spread: to 17"



Sept. 6 Height: 24-26" Spread: 23-25"

2019 All-America Selections (AAS) Flower Winner. Twelve plants were in the trials. Top performer all season with good bloom, vigor and uniformity. Received 2 'flag' votes during garden day in July.

Tagetes erecta (American Marigold) 'Big Duck Yellow'

seed source: All-America Selections



July 27 Height: 14-19" Spread: 14-16"



Sept. 6 Height: 26-28" Spread: 23-25"

2019 All-America Selections (AAS) Flower Winner. Twelve plants were in the trials. Was nice all season but bloom was best in August and September.

Tagetes erecta (American Marigold) 'Garuda Deep Gold'

seed source: All-America Selections



July 27 Height: to 36" Spread: to 24"



Sept. 6 Height: 38-40" Spread: 38-40"

2019 All-America Selections (AAS) Flower Winner. Twelve plants were in the trials. This was nice but big and slow to bloom. It received 1 'flag' vote during garden day in July.

Tagetes patula (French Marigold) 'Bonanza Bolero'

seed source: PanAmerican Seed



July 27 Height: 8-11" Spread: 9-14"



Sept. 6 Height: 8-12" Spread: 10-18"

Six plants were in the trials. Did well all season but there were some size differences.

Tagetes patula (French Marigold) 'Daisy Wheel Lemon'

seed source: Park Seed



July 27 Height: 11-12" Spread: 11-12"



Sept. 6 Height: 13-14" Spread: 13-15"

Six plants were in the trials. Slower to bloom than other marigolds but had good vigor. Pulled 2 plants in August due to Aster Yellows.

Tagetes patula (French Marigold) 'Fireball'

seed source: Park Seed



July 27 Height: 9-10" Spread: 10-12"



Sept. 6 Height: 9-14" Spread: 14-15"

Six plants were in the trials. This was very nice early but had to pull out 2 plants in August due to Aster Yellows. This received 2 'flag' votes during garden days in July .

Tagetes patula (French Marigold) 'Hot Pak Mix'

seed source: Park Seed



July 27 Height: 6-9" Spread: 6-10"



Sept. 6 Height: 5-6" Spread: 8-11"

Twelve plants were in the trials but one died by September. Bloom was good but there were some differences in sizes.

Tagetes patula (French Marigold) 'Strawberry Blonde'

seed source: Burpee



July 27 Height: 9-10" Spread: 10-12"



Sept. 6 Height: 9-10" Spread: 14-16"

Six plants were in the trials. Nicest early in the season with good bloom and uniformity.

Tagetes patula (French Marigold) 'Tiger Eyes'

seed source: Park Seed



July 27 Height: 14-15" Spread: 14-15"



Sept. 6 Height: 18-20" Spread: 20-22"

Six plants in the trials. Top performer all season with good vigor, uniformity and bloom.

Tanacetum parthenium Golden Feverfew

seed source: Park Seed



July 27 Height: 7-8" Spread: 10-12"



Sept. 6 Height: 9-10" Spread: 10-14"

Four plants were in the trials. These did alright but were just starting to bloom by the end of July. Seed was started in the greenhouse on March 28.

Thunbergia alata Black-eyed Susan Vine

seed source: Park Seed



July 27 Spreading 2-3'



Sept. 6 Dying

Four plants in the trials. Was doing well early in the season but then succumbed to a fungus by September. *Thunbergia* seed were started in the greenhouse on March 24.

Thunbergia alata 'Susie White'

seed source: Park Seed



July 27 Spreading 24-36'



Sept. 6 Spreading 36-48"

Six plants in the trials. Did well with good vigor and bloom.

Tithonia rotundifolia Mexican Sunflower

seed source: Johnny's Selected Seeds



July 27 Height: to 62" Spread: to 36"



Sept. 6 Height: 60-72" Spread: 36-40"

Six plants were in the trials but 3 were lost to a stem rot late in August. These plants were very large. *Tithonia* were started in the greenhouse on April 3.

Tithonia rotundifolia 'Sundance'

seed source: Burpee



July 27 Height: to 48" Spread: to 36"



Sept. 6 Height: 72" Spread: to 36"

Six plants were in the trials. Very vigorous and big with some aphids. Had some rot at the base of the stem in August.

Tropaeolum majus (Nasturtium) 'Dwarf Compact Mix'

seed source: Park Seed



July 27 Height: 13-17" Spread: 14-23"



Sept. 6 Height: 12-20" Spread: 30-36"

Twelve plants were in the trials. Good vigor but there was some difference in sizes. All Nasturtium seeds were started in the greenhouse on April 13.

Tropaeolum majus (Nasturtium) 'Empress of India'

seed source: Johnny's Selected Seeds



July 27 Height: 12-15" Spread: 10-18"



Sept. 6 Height: 10-12" Spread: 14-16"

Six plants were in the trials. Vigorous plants but blooms hidden in foliage.

Tropaeolum minus (Nasturtium) 'Baby Rose'

seed source: All-America Selections



July 27 Height: 5-9" Spread: 4-10"



Sept. 6 Height: 10-12" Spread: 15-20"

2019 All-America Selections (AAS) Flower Winner. Good vigor all season but slow to bloom.

Verbena bonariensis

seed source: Johnny's Selected Seeds



July 27 Height: 32" Spread: 20-22"



Sept. 6 Height: 40" Spread: 36-40"

Six plants in the trials. Top performer all season with good vigor, uniformity and bloom. This received one 'flag' vote during garden day in July. *Verbena* seeds were started in the greenhouse on March 20.

Verbena bonariensis 'Vanity'

seed source: All-America Selections



July 27 Height: 28-30" Spread: 18-20"



Sept. 6 Height: 30-36" Spread: 34-36"

2022 All-America Selections (AAS) Flower From Seed Winner. Twelve plants in the trials. Top performer all season with good bloom, vigor and uniformity. Received 1 'flag' vote during garden day in July.

Xerochrysum bracteatum (Strawflower) 'Tom Thumb Mix'

seed source: Burpee



July 27 Height: 10-20" Spread: 6-20"



Sept. 6 Height: 19-24" Spread: 8-20"

Twelve plants in the trials. There was some difference in size and bloom between the plants and it was past peak bloom in September. This received 1 'flag' vote during garden day in July. Seed was started on April 13.

Zinnia elegans 'Benary's Giant Wine'

seed source: Johnny's Selected Seeds



July 27 Height: to 33" Spread: to 28"



Sept. 6 Height: 34-36" Spread: 26-28"

Six plants were in the trials. Nice bloom and vigor all season but powdery mildew affected the foliage in late summer. This received 10 'flag' votes during garden day in July. All zinnia were started April 13 in the greenhouse.

Zinnia elegans 'Holi Scarlet'

seed source: All-America Selections



July 27 Height: 14-19" Spread: 16-19"



Sept. 6 Height: 16-18" Spread: 23-25"

2019 All-America Selections (AAS) Flower Winner. Twelve plants were in the trials. Very nice all season with good bloom and uniformity. This received 4 'flags' during garden day in July.

Zinnia elegans 'Park's Pick Mix'

seed source: Park Seed



July 27 Height: to 29" Spread: to 31"



Sept. 6 Height: 34-36" Spread: 26-28"

Eleven plants were in the trials. This did well but the plants got a bit big and were falling over by August and September. There was also some powdery mildew in late summer. This received 4 'flag' votes in July.

Zinnia elegans 'Queeny Lemon Peach'

plant source: Park Seed



July 27 Height: 15-28" Spread: 16-24"



Sept. 6 Height: 28-30" Spread: 20-28"

Six plants were in the trials. Nice most of the season but powdery mildew showed up in late summer which detracted a bit from its appearance. This received 3 'flag' votes during garden day in July.

Zinnia elegans 'Zesty Orange'

seed source: Ball Seed



July 27 Height: 12-16" Spread: 14-18"



Sept. 6 Height: 22-24" Spread: 30-33"

Six plants were in the trials. Did well all summer with good vigor, bloom and uniformity. This received 2 'flag' votes during the garden day in July.

Zinnia elegans 'Zesty Purple'

seed source: Ball Seed



July 27 Height: to 20" Spread: to 20"



Sept. 6 Height: 22-24" Spread: 30-33"

Six plants were in the trials. This did well all season with good bloom, vigor and uniformity. This received 5 'flag' votes during the garden day in July.

Zinnia elegans 'Zesty Yellow'

seed source: Ball Seed



July 27 Height: 11-14" Spread: 10-12"



Sept. 6 Height: 13-16" Spread: 19-22"

Six plants were in the trials. Not as vigorous as the other 2 'Zesty' zinnias but still did well. This received 1 'flag' vote during the garden day in July.

Zinnia elegans 'Zinderella Purple'

seed source: Park Seed



July 27 Height: 20-24" Spread: to 24"



Sept. 6 Height: 28-30" Spread: 28-30"

Six plants were in the trials. Was a star performer early but powdery mildew and other leaf spots detracted from its appearance in September. This received 3 'flag' votes for the garden day in July.

Zinnia elegans 'Zowie!™ Yellow Flame'

seed source: Johnny's Selected Seeds



July 27 Height: 19-24" Spread: to 22"



Sept. 6 Height: 28-30" Spread: 32-36"

Six plants were in the trials. Was nice all season except for some powdery mildew which showed up in late August and September. This received 2 'flag' votes during the garden day in July.

Zinnia hybrida 'Hidden Dragon'

seed source: Park Seed



July 27 Height: 19-25" Spread: 16-24"



Sept. 6 Height: 16-28" Spread: 20-30"

Four plants were in the trials. Did well until September when some disease appeared on the plants. This received 1 'flag' vote during the open house in July.

Zinnia hybrida 'Profusion Double Brilliant Mix'

seed source: Park Seed



July 27 Height: 11-22" Spread: 17-30"



Sept. 6 Height: 12-18" Spread: 20-40"

Twelve plants were in the trials. Had good bloom all summer but there was one really big plant and some other size differences between the plants.

Zinnia hybrida 'Profusion Double Hot Cherry'

seed source: Park Seed



July 27 Height: 15" Spread: 20"



Sept. 6 Height: 16-17" Spread: 30-33"

Six plants were in the trials. Did well all summer with good bloom, vigor and uniformity.

Zinnia hybrida 'Profusion Double Sunrise Mix'

seed source: Park Seed



July 27 Height: 7-10" Spread: 15-17"



Sept. 6 Height: 12-14" Spread: 30-33"

Twelve plants were in the trials. Was nice most of the summer except September when disease started affecting the plants.

Zinnia hybrida 'Profusion Red Yellow Bicolor'

seed source: All-America Selections



July 27 Height: 6-9" Spread: 9-13"



Sept. 6 Height: 8-13" Spread: 13-20"

2021 All-America Selections (AAS) Gold Medal Flower Winner. Twelve plants were in the trials. Bloomed nicely but there were some differences in size. This received 1 'flag' vote during garden day in July.

Zinnia hybrida 'Zahara Double Raspberry Ripple'

seed source: Park Seed



July 27 Height: 13-15" Spread: 18-20"



Sept. 6 Height: 18-20" Spread: 28-30"

Six plants were in the trials and this was rated as a top performer in July with good bloom, vigor and uniformity. Some disease showed up by September which detracted from its appearance.

Zinnia hybrida 'Zahara Double Salmon'

seed source: Park Seed



July 27 Height: 8-12" Spread: 12-17"



Sept. 6 Height: 16-17" Spread: 22-24"

Six plants were in the trials. They did well all season except for mid-September when white mold started affecting plants and the sick ones were pulled out.

Zinnia hybrida 'Zahara Starlight Rose'

seed source: Park Seed



July 27 Height: 10-11" Spread: 11-17"



Sept. 6 Height: 13-16" Spread: 22-24"

Six plants were in the trials. They did well all season except for one plant that stayed smaller than the others.

Seed/Plant Source List-2023¹

All-America Selections
1311 Butterfield Road, Suite 311
Downer's Grove, IL 60515
all-americaselections.org

Ball Seed (W)
622 Town Road
West Chicago, IL 60185-2698
ballseed.com

Burpee (R)
300 Park Ave
Warminster, PA 18974
burpee.com

Johnny's Selected Seeds (R)
955 Benton Avenue
Winslow, Maine 04901-2601
Johnnyseeds.com

PanAmerican Seed (W)
622 Town Road
West Chicago, IL 60185-2698
panamseed.com

Park Seed (R)
3507 Cokesbury Road
Hodges, SC 29653
parkseed.com

¹ Disclaimer-Company names are included for public information; no discrimination is intended and no endorsement by NDSU or the North Dakota Agriculture Experiment Station is implied.

² 'W' after a company name indicates a wholesale or breeding company while an 'R' after a company name indicates a retail company.