



# 2026-2027 CATALOGUE



## NEW PEOPLE, NEW PLACES, NEW PRODUCTS

### Are you ready for another year of growing success?

Going into my second year as President of PanAmerican Seed®, there are many things that I look forward to accomplishing with the team. Among those are the solutions that we are continuing to develop for you. At PanAmerican Seed, innovation drives us to strive for stronger genetics resulting in higher quality seed - with a global infrastructure that you can count on. We focus on the long term, investing in new facilities and technology, as well as building a team whose passion extends beyond plants.

### COVERING THE GLOBE

We have breeding and production facilities located all over the globe, housing teams that are the inspiration behind our products. Within this book, we are featuring the team from our Venhuizen facility



**Scott Roskuszka**  
President, PanAmerican Seed

### OUR COVER STARS

FRONT COVER • **Bas Zuidhof** (Grower)

BACK COVER • **Peter Vriend** (Production Grower)

located in the Seed Valley of the Netherlands - the heart of the breeding world. With three breeding facilities and one production facility, it's an excellent example of our investment in your future.



Explore our Venhuizen location.

### FOCUS ON QUALITY

The Venhuizen team is breeding and trialing some of our most popular product lines, including Beacon® Impatiens, lavenders, begonias and top-of-the-line perennials. Working with a dedicated research and development team on location, the Venhuizen crew can ensure you get the best seed for your growing season.

### INDUSTRY-LEADING VARIETIES

With your success in mind, we are excited to share several new varieties throughout this book. From Everleaf Lemon Basil, winner of the National Garden Bureau's Green Thumb award, to our outstanding new series of Dart™ Dianthus and additions to the Wave® and Beacon® series, there is something here for everyone.

**Remember:** when it's time to plan your next growing season, turn to PanAmerican Seed. **We've got you covered.**

*Scott*



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# NEW YEAR, NEW TOOLS, NEW INSPIRED SOLUTIONS!

This year, we have created more time, cost and labour-saving solutions to help you work better and smarter. Here is a list of new and improved resources you'll want to take advantage of for the upcoming season. For more details, see the **"Inspired Solutions"** section starting on **p. 218**.

## The NEW Bee-Yond Pollinator Program

This collection of plants attracts pollinators of all kinds, sustaining our ecosystem, improving the environment and offering the production benefits and cost savings that seed inputs can provide. See how on **p. 220**.

## Landscape Products for Professionals

We've gathered a collection of products that provide lasting colour and performance for landscaping professionals. See how and why we've chosen the varieties that made the list on **p. 222**.



## Sow Fast. Grow Fast.™ Program

Keep your benches full and increase sales with these fast-finishing products on **p. 223**.

## Calculated Combos™

You can find the combos that work best for you by using our Calculated Combos tool to put together the ideal genus, season, lighting and soil conditions! See how on **p. 224**.

## Perennial Scheduling Made Easy

Scheduling perennials to bloom when you are ready to ship has gotten easier with the First-Year-Flowering Tool! It has information on dozens of perennials and does the work of planning for you! Get started on **p. 225**.

## Smart Scheduling

Use this estimator to plan the finish times for your **Wave®** and **Kitchen Minis™** crops. Easier scheduling starts on **p. 226**.



Discover more ways  
we can help you grow!

## COUNT ON PANAMERICAN SEED



### SUPPLY

Annuals, Perennials, Potted Plants, Cuts, Vegetables, and more - you'll find a comprehensive product assortment that leads the market in depth and breadth. Driven by our innovative global breeding teams and supported by our expert supply management department, we can be flexible to meet your needs.



### RELIABILITY

The Premier Lab strives to provide the most superior seed by developing new seed forms, seed-testing protocols, seed quality ratings, plus upgrades such as superior seed coating and pelleting techniques, to improve production efficiency for growers.



### QUALITY

Our breeding team is the best in the industry at creating innovative new products to help you build your business. They also fine-tune our products, adding on-trend colours and performance upgrades. You can count on the best-quality seeds produced from our global breeding.



### AVAILABILITY

Reliable delivery is key to our business. Our dedicated team works on your orders to make all domestic and international shipments run as smoothly as possible. Our state-of-the-art seed distribution center guarantees fast, efficient order processing and delivery.



#### BREEDING LOCATIONS

Illinois, USA  
California, USA  
Cartago, Costa Rica  
Venhuizen, Netherlands  
Chiang Mai, Thailand

#### PRODUCTION LOCATIONS

Baja California, Mexico  
California, USA  
Yunnan Province, China  
Jalapa, Guatemala  
Cartago, Costa Rica  
Pichidegua, Chile  
Venhuizen, Netherlands

*Some varieties are restricted in certain markets. Please contact your PanAmerican Seed Account Manager for varieties available in your region.*



## SUPPORT

You'll find a dedicated partner in our global sales representatives, customer service teams and technical experts. They maintain close relationships with our customers, sharing expertise, marketing and sales tools, and customised solutions for your growing challenges. You'll receive support for crop culture, clean environment protocols, plant physiology and pathology, chemical and biological control agents for pests and more, using the most comprehensive resources in the business.



Venhuizen, Netherlands

# GROW WITH CONFIDENCE

## SEED FORMS

Your order from PanAmerican Seed contains high-quality seed with great performance, so you can be confident in the plants you grow.



### RAW

This is seed in its natural form, with no enhancements. Examples include Tomato and Verbena.



### DE-TAILED

The "tail" on a seed can interfere with an automatic seed-sowing machine. By removing the tail, the seed has a smoother shape that is easier to handle. Marigolds are de-tailed.



### PRIMED

Primed seed has begun the germination process, but stopped before the root protrudes through the seed coat; the seed is then dried down. Primed seed has more uniform growth and will germinate under a range of conditions. Examples include Pansy and Coreopsis.



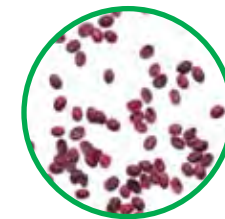
### AMPLIFIED

Amplified seed is enhanced through a proprietary process, resulting in faster and more uniform germination compared to non-enhanced seed. An example is Echinacea.



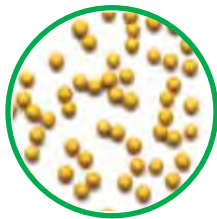
### COATED

Coated seed is enhanced through a proprietary process that allows easier handling by the grower and in seeders. The coating is sometimes referred to as a "film coat" or a "slick coat." Examples include Beacon Impatiens and Marigolds.



### TREATED

Thiram is applied to seed for disease control and protection against multiple seedborne and soilborne fungi. The seed is sealed, has no shape or size change, and no dust rubs off. An example is Sunflower.



### PELLETED

Pelleted seed is enhanced through a proprietary process that applies multiple layers of a yellow pelleting material to increase the seed size. This process also makes the seed more spherical and easier to see and handle. Examples include Petunia and Begonia.



### MULTI-SEED PELLETT AND MULTI-SPECIES MULTI-PELLET

#### Multi-Seed Pellet

The seed undergoes a similar process to pelleted but combines multiple seeds in one pellet. An example is Alyssum.

#### Multi-Species Multi-Pellet

Seeds from multiple species are combined, providing a pre-formed mixed container in one pellet. An example is SimplySalad®.



### PRECISION™ MULTI-SEED PELLETT

This form provides a precise number of seeds in a multi-seed pellet. Each seed is pelleted, and then combined with others into a larger pellet. When this multi-seed form is used for multi-species combinations, a precise number of seeds of each variety is assured. An example is SimplyHerbs™.

# SEED PELLETING, PRIMING AND TESTING

Today, billions of seeds are coated, pelleted, primed and tested before we sell them to you. You can expect reduced shrink, reduced cost and improved yield using these processes.

## PRECISION™ MULTI-PELLETS (PMPL)

The first-ever professional-quality multi-species and single-species Precision Multi-Pellets are specially formulated to deliver a balanced mix of two or three varieties. Tried and tested in the lab and in the greenhouse, they germinate and grow compatibly. All combo components are present at least 90% of the time.

- Single Species Arugula
- Single Species Herb Basil
- Single Species Herb Rosemary
- Single Species Pink Shimmer Cuphea
- Multi-Species
- SimplySalad® Kale Storm Mixture

## AMPLIFIED SEED (AMP)

Enhanced through a proprietary process for fast, uniform germination.

- Echinacea Artisan

## TREATED NON-CHEMICAL (TRN)

Seed has been disinfected without the use of fungicides, reducing the seedling pathogens on the seed.

- Salvia

## COATED SEED (CT)

Film-coated seed ensures better flowability through seeders.

- Alyssum
- Gazania
- Gerbera
- Gomphrena
- Impatiens
- Marigold, African
- Marigold, French
- Zinnia

## CERTIFIED ORGANIC SEED

Our organic seed is not treated with any chemicals. Contact your distributor for a complete product listing.

## PRIMED SEED (PR)

Primed seed germinates under a wider range of temperatures and delivers better uniformity.

- Coreopsis
- Pansy
- Papaver
- Phlox
- Rudbeckia
- Verbena
- Verbena Species
- Viola

## MULTI-SEED PELLETS (MPL)

Eliminates the need to run trays through the seeder multiple times.

- Alyssum Multi-Seed Pellet (7-9 seeds)
- Bacopa Multi-Seed Pellet (4-5 seeds)
- Begonia Multi-Seed Pellet (3-4 seeds)
- Dichondra Multi-Seed Pellet (3-4 seeds)
- Helichrysum Multi-Seed Pellet (3-4 seeds)
- Lobelia Multi-Seed Pellet (6-9 seeds)
- Ornamental Grasses Multi-Seed Pellet (5-9 seeds)
- Ornamental Mint (8-12 seeds)
- Portulaca Multi-Seed Pellet (4-5 seeds)
- SimplyHerbs™ Multi-Seed Pellet (7-12 seeds)
- SimplySalad® Multi-Seed Pellet (6-10 seeds)

## PELLETED SEED (PL)

Applying a uniform pellet for small seed items improves visibility and makes seeder pick-up easier.

- Angelonia
- Begonia
- Bellis
- Campanula
- Celosia
- Coleus
- Dianthus
- Digitalis
- Exacum
- Heuchera
- Isotoma
- Lisianthus
- Lobelia Species
- Matricaria
- Nemesia
- Pentas
- Petunia
- Petunia, Double
- Plectranthus
- Silene
- Torenia
- Trachelium
- Verbascum
- Cut Flower Snapdragons

## TREATED SEED (TR)

Uses Thiram for general seedling disease control and Allegiance for protection against downy mildew. Seed is sealed; there is no change in shape/size and no dust or rub-off.

- Sunflower
- Carthamus



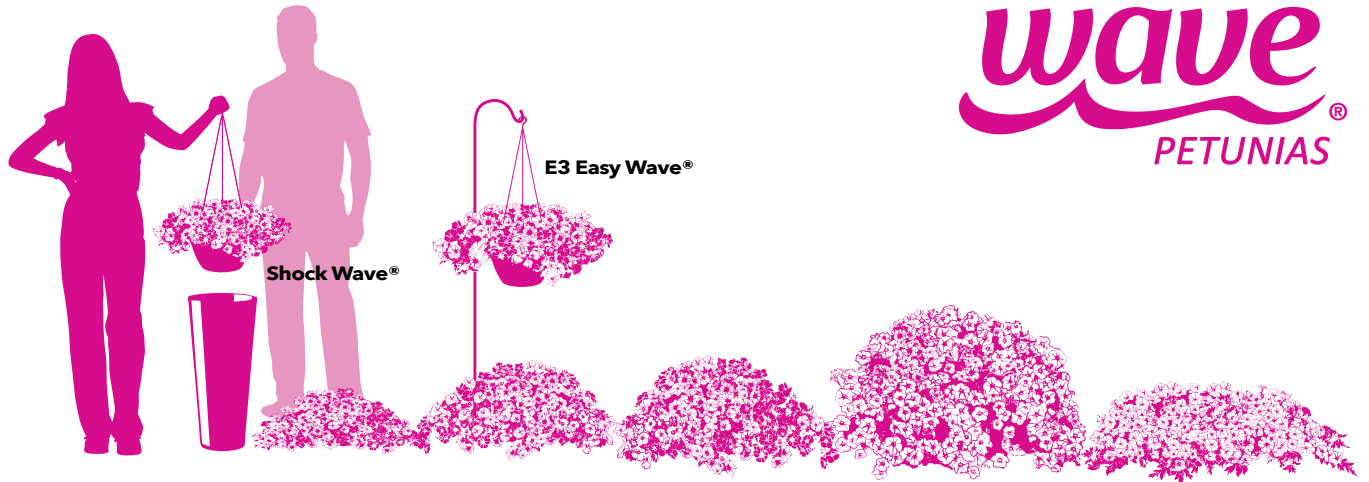
WAVE





# wave<sup>®</sup>

PETUNIAS



Shock Wave <sup>®</sup> Series	E3 Easy Wave <sup>®</sup> Series	Easy Wave <sup>®</sup> Series	Tidal Wave <sup>®</sup> Series	Original Wave <sup>®</sup> Series
Height: 7-10 in. (18-25 cm) Spread: 20-30 in. (51-76 cm)	Height: 6-12 in. (15-30 cm) Spread: 25-32 in. (64-81 cm)	Height: 6-12 in. (15-30 cm) Spread: 30-39 in. (76-99 cm)	Height: 16-22 in. (41-56 cm) Spread: 30-60 in. (76-152 cm)	Height: 5-7 in. (13-18 cm) Spread: 36-48 in. (91-122 cm)



**Packed with petite blooms!**

You've never seen petunia hanging baskets like these! Every Shock Wave plant is blanketed with masses of colour from the amazing number of petite, high-impact flowers. With Shock Wave, gardeners can count on the same strong fill and vibrant colour that makes Wave a consumer favourite.

**NEW**

Rose Vein

**SPREADING PETUNIA** ●  
*Petunia x hybrida*

**Shock Wave<sup>®</sup> Series F1**



**Height:** 7 to 10 in./18 to 25 cm  
**Spread:** 20 to 30 in./51 to 76 cm  
**Flower size:** 1.5 to 2 in./4 to 5 cm  
**Seed supplied as:** Pelleted  
**Plug crop time:** 4 to 6 weeks  
**Transplant to finish:**  
Spring 5 to 6 weeks,  
Summer 4 to 5 weeks

- Blooms in a 4 to 6-day window.
- Smaller blooms rebound faster from overhead watering and rain than other petunias, so they stay fresher-looking at retail and outdoors.
- Performs equally well in small spaces, baskets, containers and mixed combos.
- Series features a plant structure and shape like E3 Easy Wave.
- Recommended in Wave branded packaging: 4-in./10-cm pots, premium quarts, 306 premium packs with handle, hanging baskets.



**Calculate your Wave ship dates with precision!**



Coral Crush


**NEW**  
 Deep Purple Improved


Denim



Pink Shades



Pink Vein


**NEW**  
 Red Improved


Rose


**NEW**  
 Rose Vein

**NEW**  
 Violet


White



Purple Tie Dye



Spark Mixture


**NEW**  
 Volt Mixture Improved
**Coral Crush**

Retains colour well in high light.

**NEW Deep Purple Improved** Upgraded for cold durability. Features a mounded/spreading plant structure that is similar to original Deep Purple, with the same flower colour and PGR requirements. 9 hours photoperiod required.

**Denim** Flowers are dark blue-purple in cool/low light and greenhouse production; change to blue-lavender-silver in high light and hot conditions.

**Pink Vein**

Spread is 30 to 36 in./76 to 91 cm.

**Purple Tie Dye** Variable purple-blue and white bicolor pattern is appealing to consumers. Pattern changes based on temperature, light levels and PGRs used; daminozide use will result in more white showing on the blooms. 10.5-hour daylength required.

**NEW Red Improved**

Improved for cold durability. Plant structure is more mounded, and blooms have a deeper red colour. 10 hours photoperiod required. Replaces original Red in NEW Shock Wave Volt Mix Improved.

**NEW Rose Vein** Features a more controlled habit than Pink Vein, with denser centre flowering and a deeper flower colour. Pink blooms have deep rose/violet veins. Cold durable. 10 hours photoperiod required.

**NEW Violet** A vibrant neon violet colour addition to the series that is brighter than NEW Deep Purple Improved. Cold durable. 10 hours photoperiod required.

**White** Pure white variety requires 10.5 hours daylength for best flowering. Cold durable.

**Spark Mixture**

Denim, Pink Shades, White.

**NEW Volt Mixture Improved** Includes Denim, White and NEW Red Improved. Cold durable.


**NEW**  
 Violet



Rose Morn



Blue



Pink Cosmo



Coral



Pink



Red



Sky Blue



White



Yellow

SPREADING PETUNIA continued

**E3 Easy Wave® Series F1**



**Height:** 6 to 12 in./15 to 30 cm  
**Spread:** 25 to 32 in./64 to 81 cm  
**Flower size:** 2.25 to 3 in./6 to 8 cm

**Seed supplied as:** Pelleted

**Plug crop time:** 4 to 6 weeks

**Transplant to finish:**

Spring 6 to 7 weeks,  
 Summer 4 to 5 weeks

- This Wave brand series is now available to fulfill sales earlier in the season.
- Flowers at or under 10 hours daylength.
- E3 Easy Wave offers simplified production, as it can be successfully grown at lower PGR rates than Easy Wave (except Blue).
- All E3 Easy Wave varieties have a similar, uniform plant structure and vigour for simplified plant management.
- Plant holding capabilities across the series mean better quality over a longer time period for an extended sales window.
- E3 Easy Wave fulfills the Wave brand promise of *easy spreading colour™* with superior performance: a manageable spreading habit, long bloom time and sheer colour value!
- Mounding, spreading habit provides a three-dimensional landscape effect, creating impressive baskets and planters.
- Recommended in Wave branded packaging: premium 306 packs with handle, 4 to 6-in./10 to 15-cm pots and hanging baskets.

**Wake up early season sales!**

It's **Early**, it's **Efficient**, it's the **Evolution** of Easy Wave®...it's **E3!** Kick off petunia sales at retail even earlier with E3 Easy Wave! With a manageable, uniform plant structure and vigour, the series offers simple production to save on labour costs. The plants can be grown at lower PGR rates than Easy Wave, so we say it's 'Extra Easy' Wave! The plants stay full and lush longer at retail for increased sell-through and the eye-catching appeal consumers expect from the Wave® program.

**Peppermint Mixture**

**Blue** Requires 10 hours daylength. Most vigorous of the series, so it is recommended to be grown at the Easy Wave PGR rates or at half the rate. Cold durable.

**Coral** Deep coral-salmon with slight veining. Requires 9.5 hours daylength. Can be produced using the Easy Wave PGR rates or at half the rate. Cold durable.

**Pink** Mid-true pink colour. Requires 9.5 hours daylength. Can be produced using the Easy Wave PGR rates or at half the rate. Cold durable.

**Pink Cosmo** Medium pink with deeper pink veins that are more prominent in cooler and lower light conditions. Requires 10 hours daylength. Can be produced using the Easy Wave PGR rates or at half the rate. Cold durable.

**Red** True deep, vibrant red colour. Requires 9.5 hours daylength. Variety is more receptive to PGRs, so best control is achieved at half the rate of Easy Wave. Cold durable.

**Rose Morn** Requires 9.5 hours daylength. Features a consistent rose-pink bloom with a white centre. Well branched and dense with a slightly more upright plant structure. Holds well and is cold durable.

**Sky Blue** Requires 9.5 hours daylength. Flowers will lighten with age and in high light conditions. Can be produced using the Easy Wave PGR rates or at half the rate. Cold durable.

**White** Pure, clean white. Requires 9 hours daylength. Can be produced using the Easy Wave PGR rates or at half the rate. Cold durable.

**Yellow** Flowers at a 10-hour photoperiod, requires less PGRs and holds well to match the series.

**NEW Deja Vu Mixture** Includes Blue, White and future introduction Midnight Marble. The bicolour pattern may change based on temperatures. Temperatures below 50°F/10°C will cause the bicolour pattern to become whiter. As temperatures increase above 50°F/10°C, the blue in the pattern will become more pronounced.

**Formula Mixture** Features all colours in the series.

**Peppermint Mixture** This mix of red and white blooms has uniform timing, so both colours are visible at point-of-sale.

**Red White and Blue Mixture** Consistently retail-ready in baskets, bowls and flats thanks to the uniform plant structure and flowering time across the three colours.

**Sweet Taffy Mixture** Includes Pink Cosmo, Yellow and Rose Morn. This sweet mix says "Hello, Spring!" It flowers at 10 hours photoperiod and has a uniform, holding plant habit.

**NEW****Deja Vu Mixture****Red White and Blue Mixture****Formula Mixture****Sweet Taffy Mixture**



**Bold and creative!**

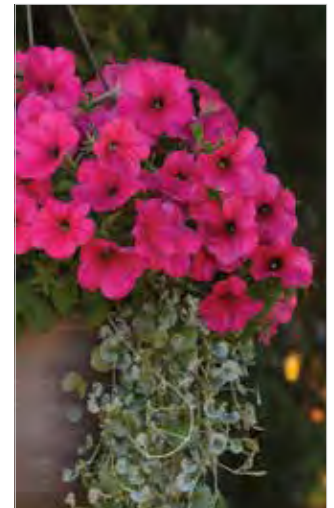
You'll always stand out in the petunia market with Easy Wave. Bring in a wide array of decorator colours. Put their versatility to work - they're perfect for solo and mixed planters and baskets, gardens and landscapes. Best of all, these all-season salesmakers deliver customer-pleasing performance.

**NEW**

**Pink Pearl**



**Navy Velour** [US 7,642,436]



**Rose**

SPREADING PETUNIA continued

**Easy Wave® Series F1**



**Height:** 6 to 12 in./15 to 30 cm  
**Spread:** 30 to 39 in./76 to 99 cm  
**Flower size:** 2 to 3 in./5 to 8 cm

**Seed supplied as:** Pelleted

**Plug crop time:** 4 to 6 weeks

**Transplant to finish:**

Spring 6 to 7 weeks,  
 Summer 4 to 5 weeks

- Versatile Easy Wave offers a wide range of colours, including star and vein patterns.
- More mounded with more controlled spread than Wave® varieties.
- Recommended in Wave branded packaging: premium 306 packs with handle, 4 to 6-in./10 to 15-cm pots and hanging baskets.

**Blue**

Cold durable.  
 9.5 hours photoperiod.

**Burgundy Star**

Pattern is consistent with standard star petunias - some flowers may be more solid or more white.

**Lavender Sky Blue**

Shades of lavender to sky blue; colours will be darker under cooler and lower light conditions. Moderate plant vigour. 9.5 hours daylength required. Cold durable.

**Navy Velour**

Large, velvety, dark blue-purple-black flowers on plants with a slightly more upright and controlled habit than Burgundy Velour. 9.5 hours photoperiod. Cold durable.

**Pink Passion**

8 to 10 days earlier than Pink in Spring natural daylength conditions.

**NEW Pink Pearl** Soft, yet colour-holding, shiny, light pink pearl blooms have violet-rose veining at the throat. Colour is slightly darker under cooler conditions. Excellent colour for combos where a softer colour is needed. Large flower size. Plants are on the larger side for vigour. Cold durable. 9.5 hours photoperiod.

**Plum Vein** Slightly more upright than others in the series.

**Rose** A distinct colour between Pink Passion and Neon Rose. It has a spreading vigour similar to Pink Passion. Requires 9.5 hours photoperiod. Cold durable.

**Rose Fusion** Mid-rose blooms with deep rose veins. Short-day flowering requirement of 9 hours creates early-season sales opportunities.

**Beachcomber Mixture**

Blue, Coral Reef, Pink Passion.

**Formula Mixture**

Blue, Neon Rose, Pink Passion, Red, Silver, Violet, White.

**Great Lakes Mixture**

Blue, Violet, White.

**Opposites Attract Mixture**

Coral Reef, Violet.

**Plum Pudding Mixture**

Plum Vein, Violet.

**South Beach Mixture**

Coral Reef, Red, Violet.

**Starfish Mixture**

Burgundy Star, White.

**The Flag Mixture**

Blue, Red, White.



Blue



Coral Reef



Lavender Sky Blue



Neon Rose



Pink



Pink Passion



NEW

Pink Pearl



Plum Vein



Red



Rose



Rose Fusion



Rosy Dawn



Silver



Violet



White



Berry Velour

US 7,642,436; EU PAF



Burgundy Velour

US 7,642,436; EU PAF



Navy Velour



Red Velour

US 7,642,436; EU PAF



Burgundy Star



Beachcomber Mixture



Formula Mixture



Great Lakes Mixture



Opposites Attract Mixture



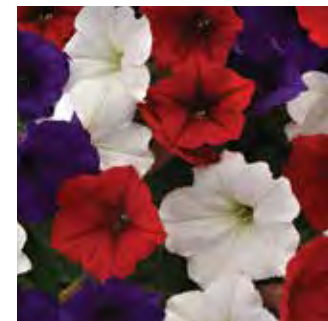
Plum Pudding Mixture



South Beach Mixture



Starfish Mixture



The Flag Mixture



**Big, bold  
3D colour!**

Grow Summer sales with this strong finisher. Tidal Wave is the "go-to" for pros and home gardeners looking for fast colour. Hedge, vine or impressive groundcover - Tidal Wave does it all! These fast-fill plants spread out and climb along and over walls and fences. They also make beautiful trellised containers.

**Red Velour** US 7,642,436; EU PAF All-America Selections Winner, Fleuroselect Gold Medal, Fleuroselect Novelty



**Silver**

SPREADING PETUNIA continued

**Tidal Wave® Series F1**



**Height, spread and spacing:**  
Growth habit is based on how closely plants are placed. The closer the spacing, the taller the plants.

- Spaced a minimum of 12 in./30 cm apart, Tidal Wave petunias form a dense, mounded hedge, 16 to 22 in./41 to 56 cm tall.
- Grown in a restricted space with support, they grow an extra 2 to 3 ft./61 to 91 cm upward, like a vine.
- Spaced up to 24 in./61 cm apart in the garden, the plants make a floriferous groundcover, spreading up to 5 ft./1.5 m across per plant.

**Flower size:** 2 to 2.5 in./5 to 6 cm

**Seed supplied as:** Pelleted

**Plug crop time:** 5 to 6 weeks

**Transplant to finish:**

Spring 6 to 8 weeks,  
Summer 4 to 7 weeks

- Largest and most vigorous of the Wave petunia family, Tidal Wave plants provide super-size colour in big spaces, and are suitable for large city baskets and plantings.
- Excellent landscape performer with terrific recovery from rain. Unlike other petunias, Tidal Waves stay together.
- Recommended in Wave branded packaging: 8-in./20-cm pots.



**Cherry**



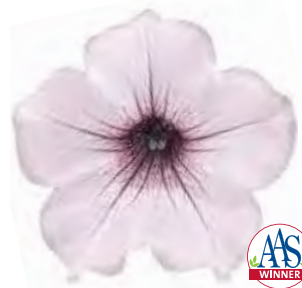
**Hot Pink**



**Purple**



**Red Velour**  
US 7,642,436; EU PAF All-America Selections Winner, Fleuroselect Gold Medal, Fleuroselect Novelty



**Silver**  
All-America Selections Winner

**Wave® Series F1**



**Height:** 5 to 7 in./13 to 18 cm  
**Spread:** 36 to 48 in./91 to 122 cm  
**Flower size:** 2 to 2.5 in./5 to 6 cm

**Seed supplied as:** Pelleted

**Plug crop time:** 4 to 6 weeks

**Transplant to finish:**

Spring 7 to 9 weeks,  
 Summer 5 to 7 weeks

- Virtually care-free, the plants bloom like crazy all season, with masses of flowers along the entire length of each branch with no trimming back.
- Wave petunias stand up well to both heat and cooler conditions, and perform better than most petunias when *botrytis* is present.
- Recommended in Wave branded packaging: 6-in./15-cm pots, premium gallons, hanging baskets.

**Carmine Velour**

Vivid, hot carmine-cherry colour on vigorous, flat, spreading plants. 13 hours daylength required. Cold durable.

**Lavender**

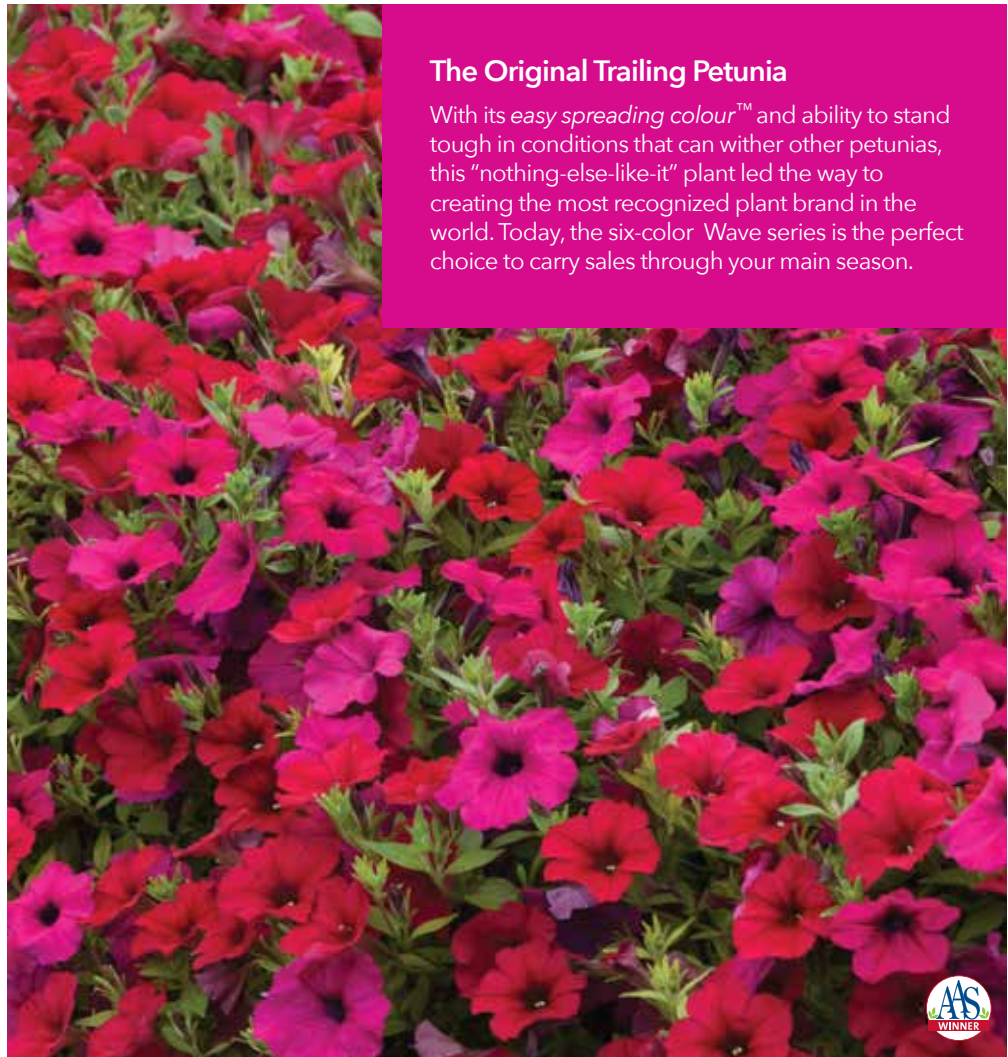
Timing is similar to Misty Lilac.

**Misty Lilac** Flowers may show appealing white "splashes" when plants are grown in high light or growth regulators are applied. Grows taller than the other Wave colours.

**Pink** Timing is similar to Purple Classic.

**Purple** Begins to flower at 11 hours, and is 12 to 14 days earlier than Purple Classic.

**Purple Classic** Blooms about 1 week later than Lavender and Misty Lilac. *All-America Selections Classic*.



**The Original Trailing Petunia**

With its *easy spreading colour™* and ability to stand tough in conditions that can wither other petunias, this "nothing-else-like-it" plant led the way to creating the most recognized plant brand in the world. Today, the six-color Wave series is the perfect choice to carry sales through your main season.

**Carmine Velour** *All-America Selections Winner* and **Purple Classic** *All-America Selections Classic*



**Carmine Velour**  
 US 7,642,436; EU PAF  
*All-America Selections Winner*

**Lavender**  
*All-America Selections Winner, Fleuroselect Gold Medal*

**Misty Lilac**



**Pink**



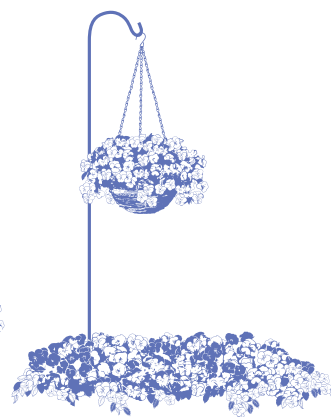
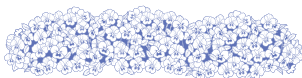
**Purple**



**Purple Classic**  
*All-America Selections Classic*



**wave**  
PANSIES®



**NEW Top Wave™ Pansy**

Height: 7-9 in. (18-23 cm)  
Spread: 20-30 in. (51-76 cm)

**Cool Wave® Pansy**

Height: 6-8 in. (15-20 cm)  
Spread: 24-30 in. (61-76 cm)



**NEW**

**Marina**

**SPREADING PANSY** ●

*Viola x wittrockiana*

**NEW Top Wave™ Series F1**

Height: 7 to 9 in./18 to 23 cm  
Spread: 20 to 30 in./51 to 76 cm

Seed supplied as: Primed

Plug crop time: 4 to 5 weeks

Transplant to finish:

Spring 7 to 8 weeks,  
Autumn 4 to 5 weeks

- NEW Top Wave spreading pansy series is your optimal choice for 5 to 6-in./13 to 15-cm pots and larger, plus mixed containers!
- The largest flowers of any spreading pansy series, it has 25% bigger blooms than Cool Wave.
- With improved structure and leaf shape, the plants nicely disguise all the branching as they mound up at point-of-sale.
- Once established, the plants are vigorously trailing for use in window boxes, baskets and as container spillers.
- Faster to fill in the landscape than standard pansies.

**NEW Marina**

Bicolour blue and white pattern can vary slightly, depending on environmental conditions.

**NEW Orange**

The first orange in a spreading pansy! The most vigorous in the series.

**NEW Pink Shades**

Offers a range of colours, from light to deep pink, all with a dark centre blotch.

**NEW Purple Sunburst**

Purple cap and cheerful yellow centre; in cool season production, it can show more purple in the face.

**NEW Purple White**

Nice two-tone coloration features a white centre with blotch and a purple cap.

**NEW Rose Blotch**

Rich, deep rose colour with a stable blotch. The most compact of the series.

**Straight to the Top!**

Cool Wave® has a big sister! NEW Top Wave is your top choice for premium pots and mixed containers in the cool seasons! With the largest flowers of any spreading pansy series, and a nicely mounded shape at point-of-sale, these new spreading pansies beat the competition for visual appeal at retail. Once established, the plants trail vigorously for the consumer and can be used in a wide variety of applications. It's a perfect addition in cool-season gardens, with low maintenance and long-lasting colour.



**NEW**  
Pink Shades



**NEW**  
Purple Sunburst



**NEW**  
Blue Blotch



**NEW**  
Marina



**NEW**  
Orange



**NEW**  
Pink Shades



**NEW**  
Purple Sunburst



**NEW**  
Purple White



**NEW**  
Rose Blotch



**NEW**  
Violet



Morpho

**Twice the spread...  
double the colour!**

Wow 'em with Cool Wave - hands down, it's the *best pansy ever*<sup>™</sup> for Spring and Autumn! One trip to the garden centre for lush baskets or plants to use in the garden is enough to convince anyone that Cool Wave is a cool-season gardener's dream. It's the *fastest-growing, longest-lasting, truly trailing pansy*<sup>™</sup> you can grow!



Golden Yellow

SPREADING PANSY continued

**Cool Wave® Series F1**

**Height:** 6 to 8 in./15 to 20 cm  
**Spread:** 24 to 30 in./61 to 76 cm  
**Flower size:** 2 to 2.5 in./5 to 6 cm

**Seed supplied as:** Primed

**Plug crop time:** 4 to 5 weeks

**Transplant to finish:**

Spring 6 to 7 weeks,  
Autumn 4 to 5 weeks

- Delivers *easy spreading colour*<sup>™</sup> for Spring and Autumn, so you can extend your growing and selling season for the popular Wave® brand.
- More vigorous, with the most prostrate habit of any spreading pansy.
- Superior overwintering hardiness - Cool Wave is the earliest pansy to return in the Spring.
- Ideal for use in baskets, patio planters, and as a groundcover.

**Blue Skies** Cool nights/low PGRs deliver the deepest colour. High temperatures/PGR use show slightly lighter blue colour and broader yellow eye. Small number of blooms show dark purple cap. Matches Golden Yellow for habit and vigour.

**Fire** Rich, dark red with a yellow face brings "fire" to Cool Wave. Shows more red in the face during Winter/Spring production (cool season) and more yellow in the face during Summer/Autumn production (warm season).

**Frost** White flowers develop light blue "frost" from the edges as they mature. Cool temperatures enhance the colour pattern.

**Lemon** Clear, buttery lemon blooms show some genetic dark and light shading.

**Morpho** Cool nights/low PGRs deliver the deepest colour. High temperatures/PGR use shows lighter colour and broader yellow eye.

**Raspberry** Rich, velvety rosy-purple with white around flower centre. Shows more rose/purple in the bloom and less white in the face in Winter/Spring (cool season) production, and more white in the face in Summer/Autumn (warm season) production. Matches Golden Yellow for vigour.

**Raspberry Swirl** Shows more rose cap in Winter/Spring (cool season) production.

**Red Wing** Also known as **Sunshine 'N Wine** in North America.

**Strawberry Swirl** Shows more pink cap in Winter/Spring (cool season) production and more yellow in the flower face in Summer/Autumn (warm season) production.

**White** Can show a little blue.

**Berries 'N Cream Mixture** Purple, Violet Wing, White.

**Pastel Mixture** Frost, Golden Yellow, Lemon and White.

**Maximize your growing success**

Find all you need to grow fantastic Cool Wave pansies in the comprehensive Production Handbook. It's available in English and Spanish at [panamseed.com](http://panamseed.com) or ask your preferred distributor for a copy.



**Blue**



**Blue Skies**



**Fire**



**Frost**  
*Medal of Excellence  
Editor's Choice*



**Golden Yellow**



**Lemon**



**Morpho**



**Purple**



**Raspberry**



**Raspberry Swirl**



**Red Wing /  
Sunshine 'N Wine**



**Strawberry Swirl**



**Violet Wing**  
*Medal of Excellence Editor's Choice*



**White**  
*Medal of Excellence Editor's Choice*



**Berries 'N Cream Mixture**



**Mixture** *Medal of Excellence Editor's Choice*



**Pastel Mixture**

# ANNUALS





**Merel Vlaar** (Product Development Manager) and  
**Han Sasbrink** (Senior Breeder Research and Development)



Mixture

**Less labour + more efficiency = a better bottom line!**

Serena and Serenita are the only seed angelonias on the market, giving you the premium results you expect from vegetative varieties, with less labour and more efficiency. Both fit into warm bedding production, are perfect for grower choice premium containers, and excel in the landscape.



Blue



Purple



Rose



White



Mixture



Waterfall Mixture

**ANGELONIA** ●  
*Angelonia angustifolia*

**Serena® Series F1**

**Height:** 16 to 20 in./41 to 51 cm  
**Spread:** 12 to 14 in./30 to 36 cm

**Seed supplied as:** Pelleted

**Plug crop time:** 5 to 6 weeks  
**Transplant to finish:** 8 to 9 weeks

- Serena fills gardens, landscapes and mixed containers with unique dimensional colour.
- Care-free, continuous bloomer performs well under a wide range of conditions.
- Durable series is a perfect choice for consumers looking for water-wise, heat-loving plants.
- Plants grow up to 50% larger in Florida, southeast Asia and similar southern climates.

*Mississippi Medallion Award, Dallas Arboretum FlameProof Award, Louisiana Super Plants Award*

**Mixture** Blue, Purple, Rose, White.

**Waterfall Mixture**  
Blue, Purple, White.



**Pink** All-America Selections Winner



**Serenita Series**

**Serenita® Series F1**



**Height:** 12 to 14 in./30 to 36 cm  
**Spread:** 12 to 14 in./30 to 36 cm  
**Seed supplied as:** Pelleted  
**Plug crop time:** 5 to 6 weeks  
**Transplant to finish:** 8 to 9 weeks

- Serenita has all the good looks, durability and easy production of Serena - with a few additional benefits.
- Excellent solution where shorter and more manageable material is needed.
- Peak performer in very hot/humid night temps like Florida, southeast Asia and similar southern climates.
- Great for high-density production.
- Grow Serenita with less to no PGRs for cost savings.

**Sky Blue** Colour holds well in high heat/light. Lighter than Serena Blue and distinctive from Serenita Purple. Timing like Raspberry.

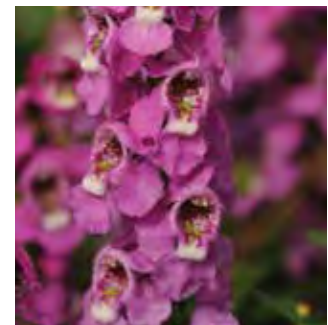
**Mixture** Includes all the colours in the series.



**Lavender**



**Purple**



**Raspberry**



**Sky Blue**



**White**



**Serenita Purple (left) & Serena Purple (right) 306 pack**



**Mixture**



**Clear Crystal White Alyssum** US 7,915,504 *Fleuroselect Novelty*



**Easter Bonnet Deep Pink Alyssum**



**Easter Bonnet Deep Rose Alyssum**



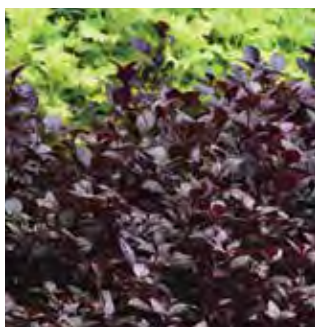
**Easter Bonnet Violet Alyssum**  
*Royal Horticultural Society Award of Garden Merit*



**Easter Bonnet White Alyssum**



**Easter Bonnet Mixture Alyssum**



**Purple Prince Alternanthera**

**ALTERNANTHERA**   
*Alternanthera brasiliana*



**Height:** 10 to 16 in./25 to 41 cm  
**Spread:** 18 to 20 in./46 to 51 cm  
**Seed supplied as:** Raw  
**Plug crop time:** 4 to 5 weeks  
**Transplant to finish:** 7 to 8 weeks

- First compact seed alternanthera is an easy-to-grow alternative to vegetative varieties.
- Durable in drought and rain.
- Great in low-maintenance landscapes for professionals and home gardeners alike.
- May flower under very short days; light plants at that time of year to prevent bud formation.

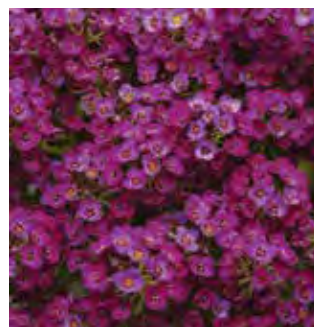


**Clear Crystal Lavender Shades Alyssum** US 7,915,504

**ALYSSUM**   
*Lobularia maritima*

**Clear Crystal® Series**  
**Height:** 6 to 10 in./15 to 25 cm  
**Spread:** 12 to 14 in./30 to 36 cm  
**Seed supplied as:** Coated, Multi-Seed Pellets  
**Plug crop time:** 4 weeks  
**Transplant to finish:** 4 to 6 weeks

- Tetraploid alyssums deliver more vigour than standard diploids for reduced loss and increased profits.
- Few PGRs are needed in most markets - cool-season crop can be grown with little or no heat for Spring pack programs.
- Fragrant, large blooms and stronger performance in containers, hanging baskets and in-ground plantings.
- Well-matched series includes the first pigmented tetraploid alyssums.



**Clear Crystal Purple Shades Alyssum** US 7,915,504

**Easter Bonnet Series**  
**Height:** 4 to 10 in./10 to 25 cm  
**Spread:** 10 to 12 in./25 to 30 cm  
**Seed supplied as:** Raw, Coated  
**Plug crop time:** 4 to 5 weeks  
**Transplant to finish:** 5 weeks

- Offering a full colour range, Easter Bonnet combines uniformity of habit and colour with unsurpassed earliness.
- Covered with dainty, fragrant flowers, plants stay compact and tidy much longer than other alyssums, making these excellent edging plants.



**Clear Crystal Mixture Alyssum** US 7,915,504

**ANEMANTHELE**  
See *ColorGrass*, page 51.  
**ANEMONE**  
See *Cut Flowers*, page 168.  
**ANTIRRHINUM**  
See *Snapdragon*.  
**AQUILEGIA**  
See *Perennials*, page 128.  
**ASCLEPIAS**  
See *Cut Flowers*, page 168.



Frizz



Frizz

**ASPARAGUS** 🌱*Asparagus densiflorus 'Sprenger'***FuzzyFern™ Frizz** 

**Height:** 24 to 36 in./61 to 91 cm  
**Spread:** 24 to 36 in./61 to 91 cm

**Seed supplied as:** Raw**Plug crop time:** 7 to 9 weeks**Transplant to finish:**

14 to 16 weeks, 4-in./10-cm pot, quart/11-cm pot

- Provides a more reliable supply of *Asparagus densiflorus* 'Sprenger' seed with higher germination.
- Offers a money-saving option to produce a reliable plug with fewer seeds.
- Frizz brings a fun texture to mixed containers, hanging baskets, indoor applications, and even landscapes in some regions.
- This trailing foliage item can handle both sun and shade and indoor and outdoor use.

### The top choice for high quality and reliable supply

With a demand for *Asparagus densiflorus* 'Sprenger' in the market and minimal seed available, we set our sights on improving supply with FuzzyFern Frizz! This asparagus fern saves growers money, space and grief by providing a more reliable supply of seed with higher germination.



Frizz



**Blutopia Bacopa**



**Pinktopia Bacopa**



**Snowtopia Bacopa**



**Snowtopia Bacopa**



**Utopia Bacopa**



**Gryphon Begonia**

**F1 BACOPA** ●●  
*Sutera cordata*

**Blutopia®, Pinktopia, Snowtopia® and Utopia**

**Height:** 6 in./15 cm  
**Spread:** 18 to 24 in./46 to 61 cm  
**Seed supplied as:** Multi-Seed Pellets  
**Plug crop time:** 3 to 4 weeks  
**Transplant to finish:** 4 to 6 weeks

- First-ever bacopas from seed let you fully mechanize production, with easy crop scheduling and quick turns with no pinch.
- Economical for accent plant programs.
- Perform well in large planters and mixed containers.

**Blutopia** Lavender-blue flowers like traditional blue bacopas. Slightly smaller leaves than Snowtopia, typical of vegetative blue bacopas. Mounded habit.

**Pinktopia** Bright pink colour is great for mixed containers and large planters. The leaf size is the same as Snowtopia, but the leaf colour is a brighter green than both Blutopia and Snowtopia.

**Snowtopia** White flowers like traditional white bacopas. Larger leaves than Blutopia, similar to vegetative white bacopas. Slightly prostrate.

**Utopia** A mix of Blutopia® and Snowtopia® bacopa.

**FOLIAGE BEGONIA** ●●  
*Begonia x hybrida*

**Gryphon** 

**Height:** 14 to 16 in./35 to 40 cm in shade, 12 to 14 in./30 to 35 cm in partial sun; may grow to 30 in./75 cm tall in hot/humid conditions  
**Spread:** 16 to 18 in./41 to 46 cm

**Seed supplied as:** Multi-Seed Pellets

**Plug crop time:** 8 to 9 weeks  
**Transplant to finish:** 5 to 6 weeks

- Easy-care, low-water plant blends beauty with durability to make dramatic mixed or solo containers.
- Fits into existing begonia plug culture; easier and quicker to produce than vegetative foliage types.
- More tolerant of stress than Rex begonias for less shrink.
- Retailers appreciate the longer sales window and versatility for outdoor container and indoor potted plant sales.
- Lets consumers extend their enjoyment by bringing plants indoors at the end of the season.

## INTERSPECIFIC BEGONIA SERIES



**Hula™**  
Spreading



**BabyWing®**  
Controlled, upright



**Megawatt™**  
In ground, large containers



**Dragon Wing®**  
In ground, containers, hanging baskets

Look to PanAmerican Seed for your complete interspecific program, starting with fastest-to-market **Hula** and **BabyWing** for day-neutral growing...**Megawatt** for big Spring sales...and main-season **Dragon Wing** to perform all Summer long in gardens and professional landscaping.



**Bicolor**



**Red**



**Red Bronze Leaf**



**White Bronze Leaf**

**BEGONIA** ●●  
*Begonia interspecific*

**BabyWing® Series F1**



**Height:** 12 to 15 in./30 to 38 cm  
**Spread:** 10 to 12 in./25 to 30 cm

**Seed supplied as:** Pelleted

**Plug crop time:** 7 to 8 weeks  
**Transplant to finish:** 5 to 7 weeks

- Daylength neutral, making it early to market.
- Upright, mounded, controlled plants stand up to shipping.
- Easy, season-long performance in landscapes and containers.
- Heat tolerant and handles stressful conditions well.

**Bicolor** Novel colour pattern with a hint of "orange glow." Slightly smaller flowers than others in the series, but very floriferous for the same overall flower power.

**Red** Green leaves can show red picotee edge when young.

**Red Bronze Leaf** A unique compact red on bronze foliage variety.

**White** May show a slight pink blush in full sun. Well-matched to Pink.



**Pink**



**White**



Red and White Mixture



Bicolor Red White



Pink

### Blanket landscapes with unique begonias

Hula Spreading Begonia is fast to fill in landscape beds, creating a blanket of high-impact colour! Floriferous Hula also looks amazing in hanging baskets and mixed containers, providing an opportunity to offer a more premium product.

#### SPREADING BEGONIA ● ●

*Begonia interspecific*

#### Hula™ Series F1



**Height:** 6 to 10 in./15 to 25 cm  
**Spread:** 20 to 27 in./51 to 69 cm  
**Flower size:** 0.5 to 1.5 in./1 to 4 cm

**Seed supplied as:** Pelleted

**Plug crop time:** 6 to 8 weeks

**Transplant to finish:**  
 5 to 7 weeks for Spring timing

- Hula is a unique spreading-type begonia that is highly branched and covered with flowers.
- Its trailing habit elevates baskets and containers.
- Provides an instant performance advantage for landscapers, with masses of flowers showing on top.

- The series is daylength neutral and it is the earliest interspecific begonia to flower, with timing similar to BabyWing®.

- The large amount of flowers provides high-impact colour.
- Early-flowering Hula starts to spread at an early stage; it provides growers a high-quality, attractive, salable plant that is covered with blooms at retail, in both hanging baskets and smaller pot sizes.

**Bicolor Red White** Features a bicolor pattern that can vary under different conditions.

**Blush** This blush-to-white colour is unique for spreading begonias. The blush colour can vary depending on conditions.

**White** The prototype for the series. Features huge amounts of large flowers for big colour impact.

**Red and White Mixture**  
 Mix of red and white blooms.



Bicolor Red White



Blush



Pink



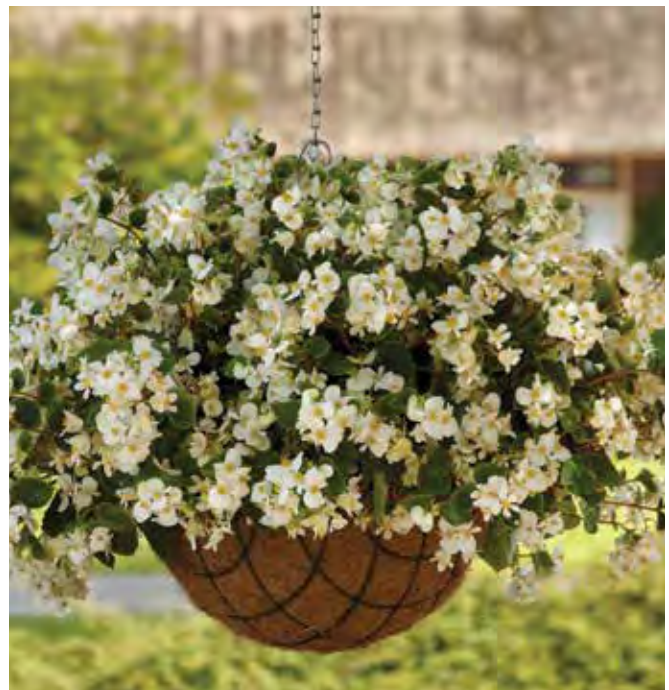
Red



White



Red



White



Red



Rose Bronze Leaf



Red Bronze Leaf



White Green Leaf



Pink Bronze Leaf



Pink Green Leaf



Red Bronze Leaf



Red Green Leaf



Rose Green Leaf



White Green Leaf

**MEGAsize +  
MEGAcolour =  
MEGAsales!**

This fresh, high-energy begonia option has quickly proven itself in the marketplace with great timing benefits and ultimate garden power. These bigger-than-life hybrids offer amazing colour for gardeners.

**BEGONIA** ●●

*Begonia interspecific*

**Megawatt™ Series F1**



**Height:** 20 to 28 in./51 to 71 cm

**Spread:** 16 to 24 in./41 to 61 cm

**Seed supplied as:** Pelleted

**Plug crop time:** 7 to 8 weeks

**Transplant to finish:** 7 to 9 weeks

- Striking, non-stop flowers keep plants covered in huge colour from Spring through Autumn...even in heat and drought.
- Sturdy flower stems hold flowers above the foliage for superior show versus others.
- Shows well at retail and perfect for landscapes, baskets, big tubs and borders.

**Pink Green Leaf** A "must-have" colour for retail programs. More uniform than the competition, with similar or earlier timing.

**White Green Leaf** Starts to flower slightly earlier than other series varieties (5 to 10 days), but it is a more true, larger-format type than the competition.



Pink Bronze Leaf



Red Bronze Leaf

**Dragon Wing® Series F1**



**Height:** 12 to 15 in./30 to 38 cm  
**Spread:** 15 to 18 in./38 to 46 cm

**Seed supplied as:** Pelleted

**Plug crop time:** 7 to 8 weeks

**Transplant to finish:** 7 to 9 weeks

- Grows lush and vigorous in southern U.S. heat and under cool, stressful conditions of northern Europe and Canada.
- Unique and beautiful arching, pendulous habit is spectacular in hanging baskets, large containers and commercial landscape plantings.
- Angel-wing leaves and large blooms give Dragon Wing a dramatically different look.
- Easy to grow from pelleted seed, providing excellent branching, vigour and flower power.
- Features best-in-class, bulletproof performance, with fast fill-in and an easy-care nature.

*Georgia Gold Medal Winners*

**White** Starts flowering around 2 to 12 days earlier than Pink, with a refined, slightly wider habit, great branching and plenty of flowers covering the plant. Flowers can blush in warmer conditions.



Red



Pink



White



Lace Apricot



Lace Pink



Sunburst



Lace Red

### Big, bold begonias

AmeriHybrid tuberous begonias provide a wide selection of colours, including unique bicolours, along with some of the world's largest blooms! This exciting collection can be sold at a premium price point at retail, and it results in faster turnover in the market.

**TUBEROUS BEGONIA** ●●  
*Begonia x tuberosa*

### AmeriHybrid® Picotee Series F1

**Height:** 14 to 20 in./36 to 51 cm  
**Spread:** 10 to 12 in./25 to 30 cm  
**Flower size:** 4 to 8 in./10 to 20 cm

**Seed supplied as:** Pelleted

**Plug crop time:** 7 to 8 weeks  
**Transplant to finish:** 11 to 15 weeks

- The AmeriHybrid Picotee varieties have large, 4 to 8-in./10 to 20-cm, bicolour blooms.
- The Picotee Lace types are an inverted variety of a normal picotee; these blooms have light edges on dark-coloured petals.

**Lace Apricot**  
Apricot blooms with a white edge.

**Lace Pink**  
Pink blooms with a white edge.

**Lace Red**  
Red blooms with a white edge.

**Sunburst** Yellow and orange/peach/apricot blooms with a red edge.



Apricot



Coral Salmon



Pink



Red



Scarlet Red



Yellow



Red

**AmeriHybrid®  
Ruffled Series F<sub>1</sub>**

Height: 14 to 20 in./36 to 51 cm  
Spread: 10 to 12 in./25 to 30 cm  
Flower size: 5 to 9 in./13 to 23 cm

Seed supplied as: Pelleted

Plug crop time: 7 to 8 weeks

Transplant to finish:  
11 to 15 weeks

- At 5 to 9 in./13 to 23 cm each, AmeriHybrid Ruffled begonias boast the largest blooms in the world! That's the result of over 100 years of patient breeding and hybridising.
- Each flower has a highly consistent double shape.



Apricot



Pink



Polka Dot



Surprise



Melon Lace



Sunset Shades



Sunset Shades

TUBEROUS BEGONIA *continued*

**On Top® Series F1**

**Height:** 10 to 12 in./25 to 30 cm

**Spread:** 10 to 12 in./25 to 30 cm

**Flower size:** 2 to 5 in./5 to 13 cm

**Seed supplied as:** Pelleted

**Plug crop time:** 7 to 8 weeks

**Transplant to finish:** 8 to 13 weeks

- Offering a collection of novelty colours, the On Top varieties tolerate more heat and sunlight than other begonias.
- Mounded plants show off many 2 to 5-in./5 to 13-cm flowers.
- On Top begonias bloom early and flower longer than other varieties.

**Melon Lace** Melon with a white edge.

**Polka Dot** Bicolour blooms feature a variable mix of coral and red with white spots and white with a red picotee edge.

**Sunset Shades** Yellow with a red edge.

**Surprise** A nice mix of white and pink/rose bicolor flowers.



Pink



Scarlet Orange



White



White Pink Picotee



Red



Yellow



Yellow Red Picotee



Apricot

### Sun Dancer™ Series F1

Height: 10 to 12 in./25 to 30 cm

Spread: 12 to 16 in./30 to 41 cm

Flower size: 3 to 6 in./8 to 15 cm

Seed supplied as: Pelleted

Plug crop time: 7 to 8 weeks

Transplant to finish: 9 to 13 weeks

- Double-flowered plants produce more blooms that are larger than other varieties, with a bloom size of 2 to 5 in./5 to 13 cm.
- Because of its excellent branching habit, Sun Dancer fills a hanging basket quickly and cascades up to 16 in./41 cm.

**Scarlet Orange** More vigorous, with longer flower stems compared to the rest of the series.

**White Pink Picotee** White with a pink edge.

**Yellow Red Picotee** Yellow with a red edge.

#### CAMPANULA

See **Potted Plants**, page 153 and **Cut Flowers**, page 169.

#### CAPSICUM

See **Potted Plants**, page 154.

#### CAREX

See **ColorGrass**, pages 50 and 53.

#### CARTHAMUS

See **Cut Flowers**, page 169.

#### CATHARANTHUS

See **Vinca**.



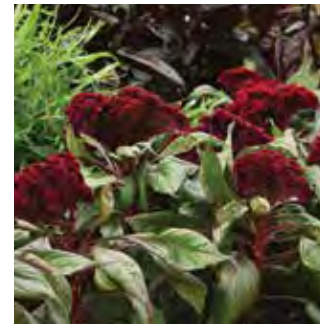
Yellow



First Flame Mixture



Ice Cream Mixture



Dracula



First Flame Purple



Ice Cream Cherry



Ice Cream Orange



Ice Cream Pink



Ice Cream Yellow



First Flame Red



First Flame Scarlet



First Flame Yellow

**CELOSIA** ●  
*Celosia cristata*

**Dracula**

**Height:** 8 to 16 in./20 to 41 cm  
**Spread:** 8 to 12 in./20 to 30 cm

**Seed supplied as:** Pelleted

**Plug crop time:** 3 to 4 weeks  
**Transplant to finish:** 6 to 8 weeks

- First-of-its-kind novelty celosia shows one big flower atop the plant.
- In the greenhouse, flower is red and foliage is green with some red. Outdoors, foliage is darker and more purple-toned and flower is darker purple.
- Unusual shape and eye-catching colour add drama to landscapes, gardens and containers.
- Good mid-height border plant.

*NOTE: Shorter growth in high light.*

PanAmerican Seed offers you two distinctive types of *C. plumosa* - our shorter Ice Cream series and mid-height First Flame series - to create a winning lineup that meets your bedding and landscape celosia needs.

**CELOSIA** ●  
*Celosia plumosa*

**First Flame™ Series**

**Height:** 10 to 14 in./25 to 36 cm  
**Spread:** 10 to 16 in./25 to 41 cm

**Seed supplied as:** Pelleted

**Plug crop time:** 3 to 4 weeks  
**Transplant to finish:** 8 to 10 weeks

- Excellent, brightly coloured Summer crop finishes 10 to 14 days earlier than competing varieties to reduce production costs.
- Mid-height series branches like a regular *C. plumosa* to produce full blooms.
- Uniform across all colours for a fuller look in containers.
- Ideal for Asian and southern markets.
- Makes a great border plant; also good in containers.

**Purple** Unique colour to this type of celosia. About 1 week earlier to flower, with a thicker plume compared to First Flame Red and Yellow. Non-fading in high light/heat.

**Mixture** Red, Yellow and Scarlet.

**Ice Cream Series**

**Height:** 12 in./30 cm  
**Spread:** 10 in./25 cm

**Seed supplied as:** Pelleted

**Plug crop time:** 3 to 4 weeks  
**Transplant to finish:** Packs, 8 to 10 weeks; 4 to 5-in./10 to 13-cm pots, 9 to 12 weeks

- Heat-tolerant, long-lasting series stands tough when temperatures rise - Ice Cream won't melt in the sun!
- Early, compact and well-branched plants are stunning in patio planters and gardens.
- Produces large, tight flower heads in strong colours for striking sales appeal.
- Versatile - great for bench-run pack and small pot programs.

**COMPACT CELOSIA**

See **Potted Plants**, page 152.

**CUT FLOWER CELOSIA**

**Celway Series**, page 172.

**Neo Series**, page 170.

**Spring Green**, page 169.

**Sunday Series**, page 171.

**CELOSIA (FOLIAGE)** ●*Celosia argentea***Sol™ Collection**

- An attractive late-flowering foliage celosia collection for the market!
- Offers relatively fast production time and no downy mildew issues.

**Gekko Green****Height:** 10 to 14 in./25 to 36 cm**Spread:** 10 to 16 in./25 to 41 cm**Seed supplied as:** Pelleted**Plug crop time:** 3 to 4 weeks**Transplant to finish:**

Spring, 7 to 10 weeks

- Foliage tends to be more green when kept indoors, and it turns to burgundy when the plant is left outdoors for at least 1 to 2 weeks.

**Lizzard Leaf****Height:** 10 to 14 in./25 to 36 cm**Spread:** 10 to 16 in./25 to 41 cm**Seed supplied as:** Pelleted**Plug crop time:** 3 to 4 weeks**Transplant to finish:**

Spring, 7 to 10 weeks

- Foliage tends to be more green when kept indoors, and it turns a vibrant burgundy-red when the plant is outdoors for at least 1 to 2 weeks.
- Lizzard Leaf's foliage can curl due to genetic factors; it can be modified by climate conditions in various locations, as well as in indoor and outdoor environments.

**Add colour and texture to containers with Sol™**

With limited options for attractive foliage plants from seed, growers often turn to celosia to add interest and texture to containers. The Sol Collection is another unique solution. This fantastic foliage celosia offers relatively fast production time and no downy mildew issues. It holds well at retail and expands the options for consumers looking for sun-loving plants for patio planters with a different texture and look. Sol is also fabulous for quick-growing, low, shrub-like plants that look great at the front of the border.

**Sol Gekko Green and Lizzard Leaf****Sol Gekko Green**  
*Fleuroselect Gold Medal, Fleuroselect Novelty***Sol Lizzard Leaf**  
*Fleuroselect Novelty*



**Coral Candy** All-America Selections Winner



**Chocolate Mint**



**Crimson Gold**



**Dark Chocolate**



**Chocolate Covered Cherry**

**PREMIUM SUN COLEUS**    
*Solenostemon scutellarioides*

Showstopping colours...bold patterns...rich textures: Pro landscapers and gardeners love these centre stage varieties for their great looks and reliable performance in sunny gardens and patio planters. Our Premium Sun Coleus can tolerate full sun in regions of high relative humidity. Foliage will scorch in full sun with low relative humidity. All are suitable for shade.

**All Premium Sun Coleus are supplied as pelleted seed.**

**Plug crop time:** 5 to 6 weeks  
**Transplant to finish:** 6 to 8 weeks

**Chocolate Covered Cherry**

**Height:** 12 to 14 in./30 to 36 cm  
**Spread:** 10 to 12 in./25 to 30 cm

- Boldly patterned, multi-coloured foliage makes a great companion to our other "chocolate" coleus: Chocolate Mint and Dark Chocolate.
- Non-fading colour pattern: rose centre on each leaf is surrounded by deep mahogany and edged with green.
- Late flowering and dwarf size are adaptable to pack and pot programs.
- Performs well in planters and small gardens in sun and shade.

**Chocolate Mint**

**Height:** 14 to 20 in./36 to 51 cm  
**Spread:** 12 to 14 in./30 to 36 cm

- Easy-to-grow, dark-leaved plants show off a rich chocolate colour, with each mid-size leaf finely edged in mint green.
- Upright accent plants are well-suited to in-ground plantings and large containers.

**Coral Candy**



**Height:** 10 to 16 in./25 to 41 cm  
**Spread:** 12 to 14 in./30 to 36 cm

- Thin, serrated leaves bring a new look to the Premium Sun collection.
- The mounded, compact plants display foliage with a coral-pink centre that blends to green.
- The range of foliage colours displayed can differ depending on environmental conditions.
- Great for mixes and garden beds.

**Crimson Gold**



**Height:** 14 to 18 in./36 to 46 cm  
**Spread:** 14 to 18 in./36 to 46 cm

- Well-branched, vigorous plants show off beautiful, bicolor foliage all season.
- Versatile variety thrives in sun and shade.
- Deep red leaves with golden-green edge.
- Late flowering.

**Dark Chocolate**

**Height:** 24 to 30 in./61 to 76 cm  
**Spread:** 18 to 24 in./46 to 61 cm

- Upright accent plants have mid-size leaves in a rich mahogany brown. Slight touches of burgundy appear, especially in full-sun conditions.
- A good choice for large mixed containers and in-ground plantings.
- Rich mahogany brown partners well with many colour schemes.



Lime Delight

**Lime Delight**



Height: 28 in./71 cm  
Spread: 18 to 22 in./46 to 56 cm

- Bright foliage is the centre of attention in designer gardens.
- Vibrant, lime green to golden colour plays well with others.

**Mighty Mosaic**



Height: 18 to 26 in./46 to 66 cm  
Spread: 18 to 22 in./46 to 56 cm

- Striking, multi-coloured foliage assures mighty retail appeal.
- Very late-flowering variety is great in the shade and tolerates sun under high humidity.
- Landscape coleus meets retailer and consumer demand for longevity and versatility.

**Pineapple Surprise**



Height: 18 to 26 in./46 to 66 cm  
Spread: 18 to 22 in./46 to 56 cm

- Unique and versatile tricolour pattern: iridescent chartreuse and deep burgundy hearts are splashed with chartreuse and green. The surprise: Up to 3% of plants can show primarily darker green/burgundy bicolor instead of chartreuse.
- Stable colour/pattern all season like similar vegetative varieties.
- Very late flowering for longer-lasting performance and holds very well in extreme weather.



Mighty Mosaic

**Ruby Heart**



Height: 18 to 26 in./46 to 66 cm  
Spread: 18 to 22 in./46 to 56 cm

- The thin, chartreuse border on the ruby-red, heart-shaped leaves continues on the undersides and stems, adding brightness.
- Similar greenhouse vigour to Chocolate Mint.
- Similar landscape performance to Crimson Gold.

**NEW Sweet Paprika™**



Height: 15 to 24 in./38 to 61 cm  
Spread: 12 to 18 in./30 to 46 cm

- Well-branched plants with medium vigour showcase a rich, deep red colour.
- Versatile variety thrives in sun and shade.
- One of the latest flowering varieties in the collection.
- May produce up to 4% off-types with a gold margin.

**Watermelon**

Height: 20 in./51 cm  
Spread: 18 to 22 in./46 to 56 cm

- Watermelon-coloured leaves with green edges in cool conditions mature to deep pink under warmer conditions.
- Can be used in sunny or shady landscapes.
- Late flowering, with long-lasting, beautifully coloured foliage.



**NEW**  
Sweet Paprika



**Ruby Heart** University of Georgia Classic City Award



**Pineapple Surprise**



**Watermelon**

Find the right coleus for your sunny and shady spaces!





**Kong Red** US PVP 200500015



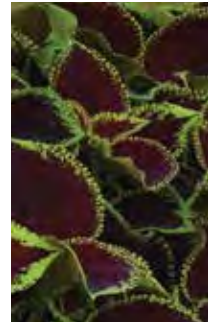
**Kong Jr. Rose**



**Kong Jr. Green Halo**



**Kong Jr. Lime Vein**



**Kong Jr. Scarlet**



**Kong Lime Sprite**



**Kong Mosaic**



**Kong Rose** US PVP 200500017



**Kong Salmon Pink** US PVP 200900035



**Kong Scarlet**



**Kong Empire Mixture**

**PREMIUM SHADE COLEUS**   
*Solenostemon scutellarioides*

**Kong® Series**



**Height:** 18 to 20 in./46 to 51 cm  
**Spread:** 15 to 18 in./38 to 46 cm

**Seed supplied as:** Pelleted

**Plug crop time:** 5 to 6 weeks  
**Transplant to finish:** 3 to 4 weeks

- Extremely large leaves and unique patterns on well-branched plants.
- Excellent shade option for large containers, large mixed combos and landscapes.
- Also works in indoor plant programs.
- Prefers full shade for best performance.

*KONG Mosaic, Red and Rose are bred by Sakata Seed Corporation.*

**Lime Sprite** Can show rose midrib in deepest shade; flowers at the late end of the series, similar to Red.

**Mosaic** No two leaves are alike.

**Empire Mixture** Contains all 6 colours.

**Kong Jr.™ Series**



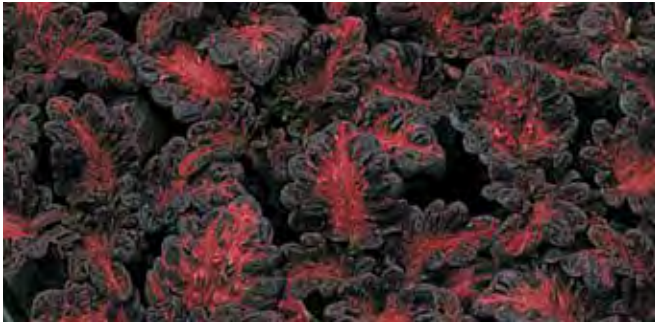
**Height:** 18 to 24 in./46 to 61 cm  
**Spread:** 20 to 35 in./51 to 89 cm

**Seed supplied as:** Pelleted

**Plug crop time:** 5 to 6 weeks  
**Transplant to finish:** 3 to 4 weeks

- Kong Jr.'s heart-shaped leaves are 30% smaller than Kong's, but just as stunning. They make Kong Jr. easier to ship, with less breakage and less loss.
- Leaf size is well-matched across the series.
- Well-branched, tidy habit is irresistible to shoppers.
- Performs well in shade landscapes, patio planters and mixed containers.
- Adds unique colours and patterns not available in Kong series.
- Also works in indoor plant programs.

**Lime Vein** Shows less veining and less to no rose midrib in the mahogany heart under brighter shade. In deeper shade, vein pattern is stronger and rose may appear in the mahogany heart at midrib.



**Black Dragon**



**Wizard Select Mixture**



**Wizard Coral Sunrise**



**Wizard Golden**

**PACK**  
**COLEUS**  
*Solenostemon*  
*scutellarioides*



**Black Dragon**

**Height:** 12 to 14 in./30 to 36 cm  
**Spread:** 10 to 12 in./25 to 30 cm

**Seed supplied as:** Raw

**Plug crop time:** 5 to 6 weeks  
**Transplant to finish:** 5 to 6 weeks

- Exotic, serrated leaves and unusual texture set this variety apart from other coleus.
- Deep red colour with a purplish-black edge.
- Outstanding in packs or pots.

**Wizard® Series**

**Height:** 12 to 14 in./30 to 36 cm  
**Spread:** 10 to 12 in./25 to 30 cm

**Seed supplied as:** Raw

**Plug crop time:** 5 to 6 weeks  
**Transplant to finish:** 7 to 9 weeks

- Mid-sized leaves.
- Great for packs.
- Useful for indoor plant programs.

**Coral Sunrise** Can start out salmon-pink under cooler conditions and mature to lighter pink when warmer. Good in sun.

**Mosaic** Earliest of the series.

**Sunset Bronze.**

**Select Mixture** Coral Sunrise, Jade, Mosaic, Scarlet, Sunset, Velvet Red.



**Wizard Jade**



**Wizard Mosaic**



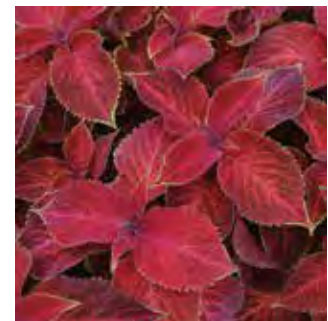
**Wizard Rose**



**Wizard Scarlet**



**Wizard Sunset**



**Wizard Velvet Red**



Sonata Complete Mixture Cosmos



Sonata Carmine Cosmos



Sonata Pink Cosmos



Sonata Pink Blush Cosmos



Sonata Purple Shades Cosmos



Sonata Red Shades Cosmos



Sonata White Cosmos  
Fleuroselect Gold Medal



Mandarin Cosmos



Antiquity Cosmos



Tropic Flame Splash Crossandra



Tropic Yellow Splash Crossandra

**COSMOS** ●●  
*Cosmos sulphureus*

**Mandarin**

**Height:** 10 to 12 in./25 to 30 cm  
**Spread:** 6 to 8 in./15 to 20 cm

**Seed supplied as:** Raw

**Plug crop time:** 3 to 4 weeks  
**Transplant to finish:** 5 to 7 weeks

- Mandarin has a deeper orange colour, a better habit and is more uniform compared to competing varieties.
- Slightly more compact variety has a more mounded shape.

**COSMOS** ●  
*Cosmos bipinnatus*

**Antiquity**

**Height:** 20 to 30 in./51 to 76 cm  
**Spread:** 12 to 14 in./30 to 36 cm

**Seed supplied as:** Raw

**Plug crop time:** 4 to 5 weeks  
**Transplant to finish:** 6 to 7 weeks

- 2-in./5-cm flowers open rich burgundy and mature to antique bronze-salmon.
- Very early and floriferous.
- Well-suited to 3.5 to 4-in./9 to 10-cm pots.

**Sonata™ Series**

**Height:** 24 in./61 cm  
**Spread:** 12 to 14 in./30 to 36 cm

**Seed supplied as:** Raw

**Plug crop time:** 4 to 5 weeks  
**Transplant to finish:** 6 to 7 weeks

- The best-performing garden cosmos.
- Extremely easy to grow; professional growers choose Sonata because of its capabilities for blooming in the pack and pot.
- Recommended for 5 to 6-in./13 to 15-cm pots.

**Complete Mixture**

Offers the most complete colour range in *Cosmos bipinnatus*, adding the unique Purple Shades and Red Shades into the mix.

**CROSSANDRA** ●  
*Crossandra infundibuliformis*

**Tropic Series**

**Height:** 10 in./25 cm  
**Spread:** 8 in./20 cm

**Seed supplied as:** Raw

**Plug crop time:** 6 to 7 weeks  
**Transplant to finish:** South, 10 to 11 weeks

- Heat-tolerant continuous bloomer makes a premium landscape plant in tropical and semi-tropical areas from Florida to southern Asia.

**Yellow Splash**

Flowers mature quickly to cream with yellow base in Florida trials.



Sweet Talk Deep Pink

**CUPHEA** ●  
*Cuphea procumbens*

**Sweet Talk™ Series F1**

**Height:** 8 to 14 in./20 to 36 cm  
**Spread:** 8 to 14 in./20 to 36 cm

**Seed supplied as:** Raw

**Plug crop time:** 4 weeks  
**Transplant to finish:** 8 to 9 weeks

- A natural source of nectar, the flowers attract pollinators like bees and hummingbirds.
- Offers a more refined plant form compared to competitors, with tighter branching and less gaps.
- A good option for Spring or Summer production; heat-loving plants are more floriferous and less susceptible to *oedema*.
- All varieties can be grown with the same PGR schedule.
- Vivid bloom colours stand out on the bench, and include a true Red.

**Deep Pink** Features a bold pink colour and the largest landscape size of the series.

**Lavender Splash**  
The most compact variety of the series has a balanced purple-to-white bloom ratio.

**Red** One of the most eye-catching colours in its class and a favourite of hummingbirds.



Sweet Talk Lavender Splash

**CUPHEA** ●●  
*Cuphea ramosissima*

**Pink Shimmer**

**Height:** 10 to 16 in./25 to 41 cm  
**Spread:** 12 to 18 in./30 to 46 cm

**Seed supplied as:** Precision Multi-Pellets

**Plug crop time:** 4 weeks  
**Transplant to finish:** 5 to 11 weeks

- Pink Shimmer can be easily sown for efficient plug production.
- Offers improved natural branching over other varieties.
- A profusion of petite flowers covers the delicate leaves all Summer long.
- Great for use in combinations of all kinds.
- This reblooming gem requires no deadheading and looks great even under hot conditions.



Sweet Talk Red



**Pink Shimmer** US PVP 201800290



NEW

Dart Raspberry



Dart Pink Magician



Dart Purple



Dart Scarlet



Dart White



Dart Red White Picotee



Jolt Cherry



Jolt Pink All-America Selections Winner



Jolt Pink Magic



Jolt Purple

**Score first with Dart**

It's your turn to win with Dart! Save money on crop time, heating, chemical use and space in the greenhouse. Dart is 1 to 2 weeks earlier than the competition, with no heat required for production. And, it requires fewer to no PGRs to fit in a range of pot sizes, saving growing space as well as making shipping easier.

**INTERSPECIFIC DIANTHUS**

*Dianthus barbatus interspecific*

**Jolt™ Series F1**



**Height:** 16 to 20 in./41 to 51 cm  
**Spread:** 12 to 14 in./30 to 36 cm  
**Flower size:** 1 in./3 cm

**Seed supplied as:** Pelleted

**Plug crop time:** 4 to 5 weeks  
**Transplant to finish:**

Late Spring through Autumn finish, 11 to 13 weeks; Winter finish, 14 to 18 weeks

- *Shocking Summer Colour™* from one of the most heat-tolerant interspecific dianthus series!
- Electrifying colours and all-season performance make Jolt stand out in landscapes and premium containers.
- Highly durable plants withstand hot conditions with few disease issues and continue to flower without setting seed.
- Grower-friendly, well-branched plants are easy to produce with less to no PGRs.
- Perfect for Summer premium grower choice quarts and gallons to command a higher price point.
- Performs as a semi-hardy annual in Zone 7a to 11 (0°F/-18°C minimum temperature) and milder.



**SINGLE DIANTHUS** ●  
*Dianthus barbatus*

**Dart™ Series F1**

**Height:** 6 to 12 in./15 to 30 cm  
**Spread:** 6 to 8 in./15 to 20 cm

**Seed supplied as:** Pelleted

**Plug crop time:** 4 to 6 weeks  
**Transplant to finish:** Spring/late Spring 9 to 11 weeks, late Summer/Autumn 5 to 7 weeks (outdoors)

- Dart doesn't require heat for production, compared to other Spring products.
- Naturally fits in more pot sizes with fewer to no PGRs, and more plants can be grown per ft<sup>2</sup>/m<sup>2</sup> compared to other varieties.
- More layers can be transported on a rack due to the compact habit.
- Dart shows much more colour at retail compared to competing series, and has the potential for more blooming.
- Suitable for both small (4 in./13 cm, 6 in./15 cm, quarts) and larger (8 in./19 cm, gallon, 2 gallon) pots.
- Fits nicely into retail programs due to its versatility in all pot sizes and a uniform flowering window for all colours except Scarlet, which is 1 week later to flower.

**Pink Magician** Faster, more compact and shows more colour at retail than competing varieties. Its multicolour blooms show even stronger under higher light intensity.

**NEW Raspberry** Fits the series very well and could be considered as the prototype for timing and habit.

**Scarlet** Variety is 1 week later to flower compared to others in the series.



**Find the right dianthus for your space!**



Dash Crimson



Dash Pink



Dash Mixture



Dash Magician



Dash Violet



Dash White



Dynasty Orchid *Royal Horticultural Society Award of Garden Merit*

**Dash™ Series F1**

Height: 15 to 20 in./38 to 51 cm  
Spread: 12 to 14 in./30 to 36 cm

Seed supplied as: Pelleted

Plug crop time: 4 to 5 weeks

Transplant to finish:

Late Spring/ early Summer, 9 to 10 weeks; late Summer/ Winter, 11 to 12 weeks

- The best *D. barbatus* for premium container sizes.
- Well-branched and moderate vigour for fast fill in early Spring and Autumn production. Responds well to PGRs where needed.
- Sweet William-type dianthus requires no vernalisation for flowering.
- Produces masses of fragrant blooms.
- Low-energy crop can be grown cool for cost savings.

**Magician** Flowers open white and mature to shades of rose.

**DOUBLE DIANTHUS** ●

*Dianthus barbatus interspecific*

**Dynasty Series F1**

Height: 16 to 20 in./41 to 51 cm  
Spread: 10 in./25 cm

Seed supplied as: Pelleted

Plug crop time: 4 to 5 weeks

Transplant to finish: 8 to 9 weeks

- Very well-branched, upright and strong-stemmed, these excellent landscape and garden performers double as a great backyard cut flower.
- Fast-blooming plants respond well to growth regulators applied for potted plant height and tighter umbels.
- Performs as a perennial in USDA Hardiness Zones 6a to 9b (-10 to 25°F/-23 to -4°C minimum temperature).

**Pink Magic** Flowers open white, then light pink, and mature to dark pink; optimal colour pattern results from high light and cool night temperatures.

**CUT FLOWER DIANTHUS**

**Amazon Series**, page 174.

**Sweet Series**, page 175.

**PERENNIAL DIANTHUS**

**Rockin' Series**, page 133.



Dynasty Pink Magic



Dynasty Purple



Dynasty Red



Dynasty Rose Lace



Dynasty White Blush



Dynasty Mixture



Mixture



Purple



White Purple Eye

## Dianthus royalty with outstanding flower power

These are the biggest blooms of any dianthus of this type, with exceptional flower form and a palette of showstopping colour choices. Coronet adds a regal touch to cool-season landscapes, gardens and patio planters.



Cherry Red



Rose



Strawberry



White

### SINGLE DIANTHUS ● *Dianthus chinensis*

#### Coronet™ Series F1

**Height:** 8 to 10 in./20 to 25 cm

**Spread:** 8 to 10 in./20 to 25 cm

**Flower size:** 2 to 3 in./5 to 8 cm

**Seed supplied as:** Pelleted

**Plug crop time:** 4 to 6 weeks

**Transplant to finish:** 6 to 8 weeks

- At 2 to 3 in./5 to 8 cm, Coronet's blooms are larger than the competition, plus it offers uniform flowering time and habit.
- Produces multiple flowers on a compact, mounded plant.
- Gives its best performance in cool weather, making an impressive display when planted with other cool-season annuals such as pansies.

#### Cherry Red

Solid cherry colour; some flowers show a darker red centre.

**Rose** Solid rose colour, with some blooms showing a darker centre.

**Strawberry** Variable pattern in coral/salmon shades. Some flowers are solid coral, some are coral bicolor and some have a darker coral picotee against a lighter background.

#### White Purple Eye

Sharply contrasting bicolor with the compact size and timing of Strawberry. Can use half the rate of PGRs needed for the solid colours in the series.

**Mixture** Includes all the colours of the series.



Floral Lace Cherry



Floral Lace Crimson



Floral Lace Lilac



Floral Lace Mixture



Floral Lace Picotee



Floral Lace Purple



Floral Lace Red

**DIANTHUS** ●

*Dianthus chinensis x barbatus*

**Floral Lace™ Series F1**

**Height:** 8 to 10 in./20 to 25 cm  
**Spread:** 8 in./20 cm

**Seed supplied as:** Raw, Pelleted

**Plug crop time:** 4 to 5 weeks  
**Transplant to finish:** 4 to 5 weeks

- Early flowering with the largest blooms of any *D. chinensis x barbatus* - up to 1.5 in./4 cm across.
- Performs well in gardens under tough conditions as an annual or biennial.
- Good for high-density Spring and Autumn pack or small pot programs.
- Bright green leaves.

**Ideal Select™ Series F1**

**Height:** 8 to 10 in./20 to 25 cm  
**Spread:** 8 in./20 cm

**Seed supplied as:** Raw, Pelleted

**Plug crop time:** 4 to 5 weeks  
**Transplant to finish:** 4 to 5 weeks

- Well-matched habit and tight flowering window let you bench run and ship all together.
- Early-flowering series is good as an annual or biennial.
- Well-suited to high-density small pack or pot programs for Spring and Autumn sales.



Floral Lace True Rose



Floral Lace Violet Picotee



Floral Lace White



Ideal Select Raspberry



Ideal Select Red



**Ideal Select Rose**  
 Royal Horticultural Society  
 Award of Garden Merit



**Ideal Select Violet**  
 All-America Selections  
 Winner



**Ideal Select White**



**Ideal Select WhiteFire**  
 Royal Horticultural Society  
 Award of Garden Merit



**Ideal Select Mixture**



Silver Falls Dichondra



Emerald Falls Dichondra



Figaro White Dahlia



Figaro Yellow Shades Dahlia



Figaro Orange Shades Dahlia



Figaro Red Shades Dahlia



Figaro Violet Shades Dahlia



Figaro Mixture Dahlia

**DAHLIA** 🌈  
*Dahlia x hybrida*

**Figaro™ Series**

**Height:** 14 to 18 in./36 to 46 cm  
**Spread:** 10 to 12 in./25 to 30 cm

**Seed supplied as:** Raw

**Plug crop time:** 4 to 5 weeks  
**Transplant to finish:** 5 to 6 weeks

- Premium pack item is ideal for borders and containers.
- Each variety contains several shades of that colour.

**Mixture** Contains 100% semi-double and fully double flowers.

**DICHONDRA** 🌈🌈  
*Dichondra argentea*

**Silver Falls** 🌈



**Height:** 2 to 3 in./5 to 8 cm in the ground  
**Spread/Length:** 3 to 4 ft./91 cm to 1.2 m; up to 6 ft./1.8 m in areas with a longer growing season

**Seed supplied as:** Raw

**Plug crop time:** 5 weeks  
**Transplant to finish:** 6 to 7 weeks

- True cascading habit is excellent for mixed containers or hanging baskets.
- Performs as a low-growing groundcover, but requires well-drained soils.
- Also well-suited to indoor plant programs.
- Very heat and drought tolerant.
- No pinching needed.

**DICHONDRA** 🌈🌈  
*Dichondra repens*

**Emerald Falls** 🌈

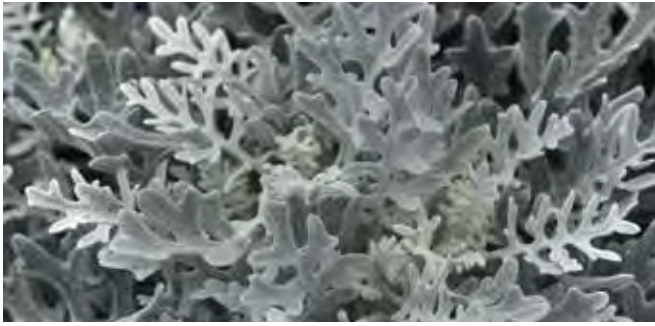


**Height:** 2 to 4 in./5 to 10 cm in the ground  
**Spread/Length:** 36 in./91 cm

**Seed supplied as:** Multi-Seed Pellets

**Plug crop time:** 5 to 6 weeks  
**Transplant to finish:** 7 to 8 weeks

- Denser, tighter and shorter than Silver Falls, without pinching or PGRs.
- Medium green leaves are more rounded and held closer to the stem.
- Good for hanging baskets.
- Also performs well as a heat-tolerant, low-growing groundcover.



Silverdust Dusty Miller

**DUSTY MILLER** ●

*Cineraria maritima/  
Senecio cineraria*

**Silverdust**

**Height:** 10 in./25 cm

**Spread:** 10 in./25 cm

**Seed supplied as:** Raw, Pelleted

**Plug crop time:** 4 to 5 weeks

**Transplant to finish:** 7 to 8 weeks

- Finely cut, silvery white, velvety foliage on uniform plants.
- Adds contrast and texture to beds and borders.
- Size and uniform habit also make Silverdust perfect for container plantings.
- Seed is graded for more uniform germination.

**EUPHORBIA** ●

*Euphorbia graminea*

**Glamour F1**

**Height:** 15 to 24 in./38 to 61 cm

**Spread:** 15 to 24 in./38 to 61 cm

**Seed supplied as:** Raw

**Plug crop time:** 3 to 4 weeks

**Transplant to finish:** 5 to 8 weeks

- The best variety for in-ground performance.
- Early to flower, with the vigour to hold up to a range of weather challenges.
- An exceptional choice for a 'Baby's Breath Gypsophila' like application in the landscape.
- Use with vigorous plants for a stunning combination in-ground, or weave like a cloud-like hedge through more bold-textured annuals.



Glamour Euphorbia

**Glitz F1**

**Height:** 10 to 14 in./25 to 36 cm

**Spread:** 12 to 18 in./30 to 46 cm

**Seed supplied as:** Raw

**Plug crop time:** 4 to 5 weeks

**Transplant to finish:** 5 to 8 weeks

- Delivers the performance of its vegetative counterparts without the headaches.
- The perfect habit for premium mixed containers.
- Easy to grow - no pinching needed.
- Suitable for grower choice premium quarts.

**GALLARDIA**

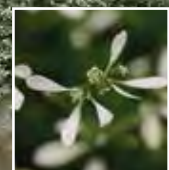
See **Perennials**, page 136.

**GAURA**

See **Perennials**, page 137.



Glitz Euphorbia





Live Wire Isolepis and Pony Tails Stipa



Amazon Mist Carex

**Complementary colour**

Part of the Fantastic Foliage Collection, ColorGrass® varieties let you grow and sell the broadest range of ornamental grasses from seed! These unique varieties accent landscapes and containers with height, colour and texture.



Live Wire Isolepis



Amazon Mist Carex



Lucius Luzula



Variety/Exposure	Colour group	Height	Spread	USDA Zones	Containers	Plug crop time (weeks)	Transplant to finish (weeks)	Features
<b>LOW HABIT (2 to 8 in./5 to 20 cm)</b>								
<b>Isolepis Live Wire</b> 🟡 <i>I. cernua</i> (Fiber Optic Grass)	Green	6-8 in./ 15-20 cm	18-20 in./ 46-51 cm	8-10	306 pack, 4 in./10 cm, 6 in./15 cm*, Gallon	5	6-7	Annual grasslike plant features a short mound of soft green leaves accented by flower spikes that resemble fiber optic strands. Ideal for adding texture to mixed combos or used as an indoor plant. Dense, mounded habit needs no pinching or PGRs, grows upright when young and drapes as it matures. Performs well in wet conditions. Prefers shade, but can handle sun if moisture is maintained.
<b>Carex Amazon Mist</b> 🟡 <i>C. comans</i> (Leatherleaf Sedge)	Green	6-12 in./ 15-30 cm	14 in./36 cm	6-10	4 in./10 cm, 6 in./15 cm*, Gallon	6-7	9-10	Variiegated light/medium green grass has twisting tips and an arching habit.
<b>Luzula Lucius</b> 🟡🟢 <i>L. nivea</i>	Green	6-12 in./ 15-30 cm	18 in./46 cm	4-9	4 in./10 cm, 6 in./15 cm*, Gallon	4-7	8-9	Upright and arching evergreen grass has flat, mid-green leaves fringed in white hairs. Small, white flowers in spiky inflorescences in Spring/early Summer. Flourishes in damp, shady areas.

\*3 plants per pot

All ColorGrass varieties are supplied as multi-seed pellets.

**JUNCUS** ●

*Juncus inflexus* -  
*Juncus effusus spiralis*

**Twisted Arrows**



**Height:** 18 to 36 in./46 to 91 cm  
**Spread:** 12 to 18 in./30 to 46 cm

**Seed supplied as:**  
Multi-Seed Pellets

A mix of Blue Arrows  
*Juncus* and *Juncus effusus spiralis* (curly juncus).



Twisted Arrows Juncus



Festina Festuca



Sirocco Anemanthele



Starhead Juncus



Sirocco Anemanthele



Festina Festuca



Variety/Exposure	Colour group	Height	Spread	USDA Zones	Containers	Plug crop time (weeks)	Transplant to finish (weeks)	Features
<b>MEDIUM HABIT (8 to 18 in./20 to 46 cm)</b>								
<b>Juncus Starhead</b> ●● <i>J. ensifolius</i>	Green	8-10 in./ 20-25 cm	8-10 in./ 20-25 cm	4-10	4 in./10 cm, 6 in./15 cm*, Gallon	6-7	7-8	Compact variety displays green, broad-leaved foliage and long-lasting, dark green star inflorescences.
<b>Anemanthele Sirocco</b> ● <i>A. lessoniana</i>	Green/ Brown	12-14 in./ 30-36 cm	22-24 in./ 56-61 cm	7-10	4 in./10 cm, 6 in./15 cm*, Gallon	5-6	6-8	The only pink grass from seed. Colour turns to shades of copper and pink under cool conditions, natural sunlight and maturity. Adds movement and texture to landscapes, gardens, mixed containers and baskets.
<b>Festuca Festina</b> ● <i>F. cinerea (F. glauca)</i>	Green	12-18 in./ 30-46 cm	10-15 in./ 25-38 cm	4-10	4 in./10 cm, 6 in./15 cm*, Gallon	6-7	6-7	Very cold-hardy variety produces dense, compact tufts of blue-green, with small, upright brown plumes from Summer to Autumn.

Find more great  
combo options.





Blue Dart Juncus



Twister Juncus



Pony Tails Stipa

**The Fantastic Foliage® Collection**

These plants provide an easy, natural dimension for outdoor spaces. Subtle colour and intricate textures deliver a simple, yet contemporary look. Used in mixed planters or as a standalone feature, these plants are all about the foliage!



Blue Dart Juncus



Twister Juncus



Pony Tails Stipa



Variety/Exposure	Colour group	Height	Spread	USDA Zones	Containers	Plug crop time (weeks)	Transplant to finish (weeks)	Features
<b>MEDIUM HABIT (8 to 18 in./20 to 46 cm)</b>								
<b>Juncus Blue Dart</b> ●● <i>J. tenuis</i>	Green	14-16 in./ 36-41 cm	10-12 in./ 25-30 cm	4-10	4 in./10 cm, 6 in./15 cm*, Gallon	6-7	7-8	Linear blue foliage adds texture to small containers and in-ground planting. Strong vertical habit – faster, more reliable alternative to spike dracaena. Easy-care and adaptable to a wider range of conditions, including standing water and drought. Attractive indoor or water plant. Great retail shelf life.
<b>Juncus Twister</b> ●● <i>J. effusus spiralis</i>	Green	12-14 in./ 30-36 cm	12-14 in./ 30-36 cm	5-9	4 in./10 cm, 6 in./15 cm*, Gallon	7-8	6-7	Unusual juncus is economical and easy to grow – a fun addition to mixed containers. Shoppers love the small, curly green leaves of this upright plant. Can be grown as a “mini” for expanded sales opportunities. Also thrives in wet conditions, making it a useful pond plant.
<b>TALL HABIT (18 in./46 cm and taller)</b>								
<b>Stipa Pony Tails</b> ● <i>S. tenuissima</i> (Mexican Feather Grass)	Green	16-24 in./ 41-61 cm	24 in./61 cm	6-10	4 in./10 cm, 6 in./15 cm*, Gallon	5-6	7-10	Upright grass has fine, needlelike green foliage, with silky green flowers in July that mature to golden blonde.

\*3 plants per pot

All ColorGrass varieties are supplied as multi-seed pellets.



Red Rooster Carex



Blue Arrows Juncus




Javelin Juncus



Phoenix Green Carex 



Red Rooster Carex 



Blue Arrows Juncus 



Javelin Juncus 

Variety/Exposure	Colour group	Height	Spread	USDA Zones	Containers	Plug crop time (weeks)	Transplant to finish (weeks)	Features
<b>TALL HABIT (18 in./46 cm and taller)</b>								
<b>Carex Phoenix Green</b>  <i>C. comans</i> (Leatherleaf Sedge)	Green	20-24 in./ 51-61 cm	16-20 in./ 41-51 cm	6-10	4 in./10 cm, 6 in./15 cm*, Gallon	5-7	6-7	Sturdy, upright, narrow-leaved sedge has bright green foliage. Good heat tolerance. Easy-care for accent in landscapes, planters.
<b>Carex Red Rooster</b>  <i>C. buchananii</i>	Red	20-30 in./ 51-76 cm	12 in./30 cm	6-9	4 in./10 cm, 6 in./15 cm*, Gallon	6-7	8-9	Red-bronze grass has curled tips and upright habit.
<b>Juncus Blue Arrows</b>  <i>J. inflexus</i>	Green	36 in./ 91 cm	12 in./30 cm	5-9	4 in./10 cm, 6 in./15 cm*, Gallon	6-7	6-7	Stiff, upright, blue-green foliage is well-suited to annual bedding and mixed containers. Heat tolerant in a wide range of environments. Can be grown as a pond plant and drought tolerant when grown in-ground. Also makes a great indoor plant.
<b>Juncus Javelin</b>  <i>J. pallidus</i>	Green	48 in./ 122 cm	18-20 in./ 46-51 cm	8-10	4 in./10 cm, 6 in./15 cm*, Gallon	5-6	5-6	Developed from unique genetics and available only from PanAmerican Seed, Javelin makes a dramatic "thriller" for mixed containers. Can grow up to 5 ft./1.5 m tall in gardens/landscapes. Rugged, upright plant can grow in standing water, but also handles heat/drought. Provides great Winter interest, maintaining upright, stiff, straw-colour foliage.



Clear Orange



Bronze Shades



Pink Shades



Red Shades



Red Stripe



Bright Mixture



Rose Stripe

**GAZANIA**   
*Gazania rigens*

**New Day® Series F1**

**Height:** 8 to 10 in./20 to 25 cm

**Spread:** 6 to 8 in./15 to 20 cm

**Seed supplied as:** Coated

**Plug crop time:** 4 to 5 weeks

**Transplant to finish:** 8 to 9 weeks

- More uniform flowering than competing varieties, with larger flowers and better plant habits.
- Compact, sturdy, high-quality plants are easy to produce and super-holdable at retail.
- Bred to deliver shorter peduncles and more robust plants.
- Well-suited to high-density pack and small container production.
- Drought-tolerant series performs beautifully in containers and baskets, and as a garden edging or groundcover.



Mixture



White



Tiger Mixture



Yellow

**Bright Mixture**

Bronze Shades, Yellow, Clear Orange, Pink Shades.

**Tiger Mixture**

Red Stripe and Rose Stripe.

**GOMPHRENA** ●  
*Gomphrena haageana*

**QIS Series**

**Height:** 24 to 26 in./61 to 66 cm  
**Spread:** 8 to 10 in./20 to 25 cm

**Seed supplied as:** Raw

**Plug crop time:** 5 to 6 weeks

**Transplant to finish:** 10 to 12 weeks

- Versatile series works well for landscape and garden use.
- Vivid colour range makes these a Summer-long standout.
- Can be used as a first-class professional cut flower for greenhouse and outdoor production.

Also available: **Mixture**

**GOMPHRENA** ●  
*Gomphrena pulchella*

**Fireworks**

**Height:** 36 to 48 in./91 to 122 cm  
**Spread:** 48 in./122 cm

**Seed supplied as:** Coated

**Plug crop time:** 5 to 6 weeks

**Transplant to finish:** 8 to 9 weeks

- More blooms per plant and unique “scaffolding” habit make Fireworks sparkle at retail, then explode with colour in landscapes and containers.
- Vigorous, “tough as nails” plants are drought tolerant, low maintenance.
- Attractive architectural element for landscapes; also excellent for mixed cut flower bouquets.
- Easy to produce, and stays compact as a plug.
- Well-suited to high-margin gallon programs; suitable for field or garden cut flower production.

Mississippi Medallion Award

**GOMPHRENA**  
Also see **Cut Flowers**, page 176.

**HELICHRYSUM** ●  
*Helichrysum microphyllum*  
(*Plectostachys serpyllifolia*)

**Silver Mist** ●

**Height:** 6 to 8 in./15 to 20 cm  
**Spread:** 18 to 24 in./46 to 61 cm

**Seed supplied as:** Multi-Seed Pellets

**Plug crop time:** 6 to 7 weeks

**Transplant to finish:** 8 to 9 weeks

- Accent plant for mixed containers and landscapes, as well as an indoor plant.
- Full, mounded and spreading plants branch well without pinching.
- Silver colour intensifies with more light; under lower light, foliage appears more green.

**HIBISCUS** ●  
*Hibiscus acetosella*

**Mahogany Splendor** ●



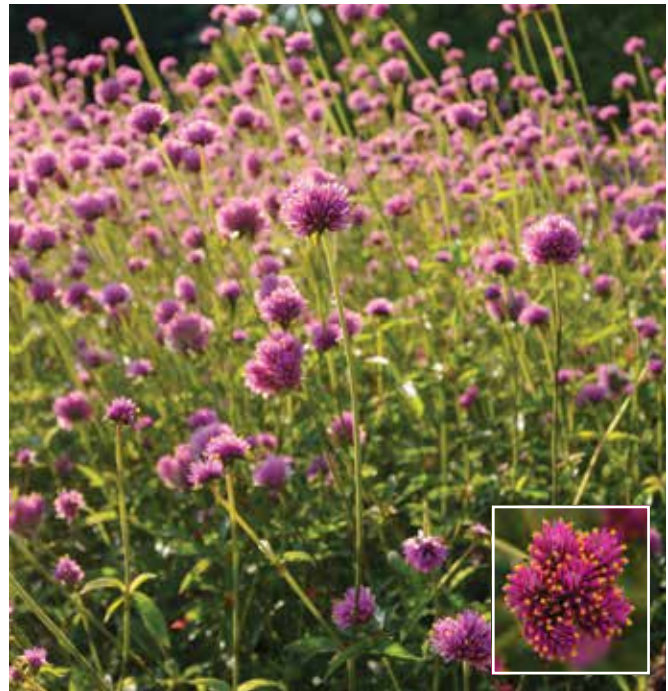
**Height:** 36 to 60 in./91 to 152 cm  
**Spread:** 24 to 30 in./61 to 76 cm

**Seed supplied as:** Raw

**Plug crop time:** 2 to 3 weeks

**Transplant to finish:** 5 to 6 weeks

- Adds awesome colour and dramatic height to landscapes and containers.
- Deep burgundy, maple-shaped leaves with serrated edges.
- Drought and heat tolerant; combines well with other vigorous sun-loving plants in containers.
- Can be grown directly in the water as a pond plant.
- Foliage will have green/rust tones in the greenhouse, but matures to burgundy in full sun outdoors.



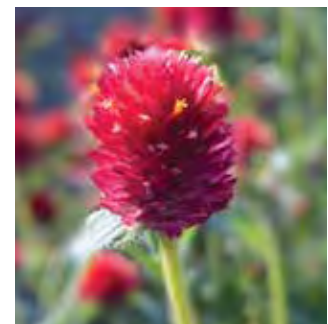
Fireworks Gomphrena



QIS Carmine Gomphrena



QIS Orange Gomphrena



QIS Red Gomphrena



Silver Mist Helichrysum



Mahogany Splendor Hibiscus

# BEACON



BEACON<sup>®</sup>  
IMPATIENS



NEW

**Blue Pearl** US 10,285,362; US 11,166,424; EU PAF

### Beacon Impatiens in bright new colours

Beacon announces two NEW colours to light up the shade. **NEW Blue Pearl** and **NEW Light Pink** have been trialed and approved to grow well and look vibrant in the shade, and they offer high resistance to the widely prevalent populations of *Plasmopara destructor*, the cause of Impatiens downy mildew. Beacon Impatiens are suitable for packs, pots, hanging baskets and in-ground beds. Visit [beaconimpatiens.com](http://beaconimpatiens.com) for more details on the Beacon story.

**IMPATIENS**   
*Impatiens walleriana*

#### Beacon® Series F1



**Height:** 14 to 18 in./36 to 46 cm  
**Spread:** 12 to 14 in./30 to 36 cm  
**Flower size:** 1.25 to 1.5 in./3 to 4 cm

**Seed supplied as:** Coated

**Plug crop time:** 4 to 5 weeks

**Transplant to finish:** 3 to 4 weeks

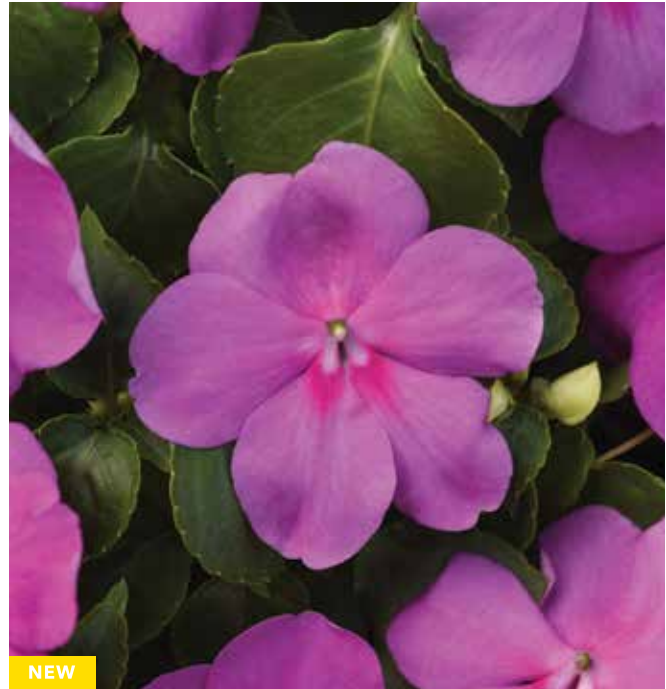
- Exhibits high resistance to the widely prevalent populations of *Plasmopara destructor*, which cause Impatiens downy mildew (IDM).
- Brings back into production a well-known, in-demand, easy-to-grow and versatile product for increased sales.
- Extensive trialing has proven that Beacon impatiens provides genetic high resistance to IDM. Beacon is not immune to IDM; there are scenarios where preventative IDM fungicides may be recommended.
- Easy to incorporate into production planning.
- Fast-filling, season-long colour for gardens and landscapes.

#### **NEW Blue Pearl**

A unique colour for the high-resistance category. Large, showy blooms have lavender petals with a pearlescent shine and a violet-rose centre. The colour stays consistent and uniform in shade and higher light. Strongly branched plants support abundant flowering.

#### **NEW Light Pink**

Flowers in shades of light to medium pink, with some displaying a more pronounced, deeper margin. Large flowers bloom on well-branched, mid-vigour plants.



NEW

**Blue Pearl** US 10,285,362; US 11,166,424; EU PAF



NEW

**Light Pink** US 10,285,362; US 11,166,424; EU PAF



NEW

**Light Pink** US 10,285,362; US 11,166,424; EU PAF



NEW

**Blue Pearl**  
US 10,285,362; US 11,166,424; EU PAF



**Bright Red** US 10,285,362; US 11,166,424; EU PAF  
*Medal of Excellence Industry's Choice, Medal of Excellence Reader's Choice*



**Coral** US 11,166,424; US 10,285,362; EU PAF



NEW

**Light Pink**  
US 10,285,362; US 11,166,424; EU PAF



**Lipstick** US 11,166,424; US 10,285,362; EU PAF  
*Medal of Excellence Industry's Choice, Medal of Excellence Reader's Choice*



**Orange** US 11,166,424; US 10,285,362; EU PAF  
*Medal of Excellence Industry's Choice, Medal of Excellence Reader's Choice*



**Rose** US 10,285,362; US 11,166,424; EU PAF  
*Medal of Excellence Industry's Choice, Medal of Excellence Reader's Choice*



**Salmon** US 10,285,362; US 11,166,424; EU PAF  
*Medal of Excellence Industry's Choice, Medal of Excellence Reader's Choice*



**Violet Shades** US 10,285,362; US 11,166,424; EU PAF  
*Medal of Excellence Industry's Choice, Medal of Excellence Reader's Choice*



**White** US 10,285,362; US 11,166,424; EU PAF  
*Medal of Excellence Industry's Choice, Medal of Excellence Reader's Choice*



**Formula Mixture**  
US 11,166,424; US 10,285,362; EU PAF

**Violet Shades**

Shades of bright violet and burgundy-violet on moderate-vigour, upright mounded plants with mid-green foliage.

**Cape Pine Mixture**

Includes Bright Red and White. Named for Cape Pine Lighthouse, Newfoundland, Canada.

**Chicago Mixture** Includes Violet Shades, White and NEW Blue Pearl. This mix is named for the Chicago Harbor Lighthouse.

**Formula Mixture** Includes Bright Red, Coral, Lipstick, Orange, Rose, Salmon, Violet Shades and White.

**Lindau Mixture** Includes Orange, White and Violet Shades. Named for the Lindau Lighthouse, Lake Constance, Germany.

**Otway Mixture** Includes Lipstick, Rose and NEW Light Pink. This mix is named after the Cape Otway Lighthouse in Victoria, Australia.

**Pearl Island Mixture**  
**Limited introduction.**

Includes Coral, White and NEW Blue Pearl. Named for Pearl Island Lighthouse, Nova Scotia, Canada.

**Portland Mixture** Includes Rose, Violet Shades and White. Takes its name from Portland Bill Lighthouse, Dorset, England.

**Sanibel Mixture** Includes Bright Red, Orange and Violet Shades. Inspired by Sanibel Lighthouse, Sanibel Island, Florida, USA.



Beacon Coral (L outperforms a susceptible competing variety (R) in a side-by-side field trial in Venhuizen, the Netherlands.



**Cape Pine Mixture**  
US 10,285,362; US 11,166,424; EU PAF

**Cape Pine Lighthouse**  
Newfoundland, Canada



**Lindau Mixture** US 10,285,362; US 11,166,424; EU PAF  
*Medal of Excellence Industry's Choice,*  
*Medal of Excellence Reader's Choice*

**Lindau Lighthouse**  
Lake Constance, Germany



**Chicago Mixture**  
US 10,285,362; US 11,166,424; EU PAF

**Chicago Harbor Lighthouse**  
Chicago, Illinois, USA



**Pearl Island Mixture** US 10,285,362; US 11,166,424; EU PAF  
*Medal of Excellence Industry's Choice,*  
*Medal of Excellence Reader's Choice*

**Pearl Island Lighthouse**  
Nova Scotia, Canada



**Otway Mixture** US 11,166,424; US 10,285,362; EU PAF

**Cape Otway Lighthouse**  
Victoria, Australia



**Portland Mixture** US 10,285,362; US 11,166,424; EU PAF  
*Medal of Excellence Industry's Choice,*  
*Medal of Excellence Reader's Choice*

**Portland Bill Lighthouse**  
Dorset, England



**Sanibel Mixture** US 10,285,362; US 11,166,424; EU PAF  
*Medal of Excellence Industry's Choice,*  
*â Medal of Excellence Reader's Choice*

**Sanibel Lighthouse**  
Sanibel Island, Florida, USA



**Chicago Mixture**  
US 10,285,362; US 11,166,424; EU PAF



**Otway Mixture**  
US 11,166,424; US 10,285,362; EU PAF



**NEW**  
Salmon Punch



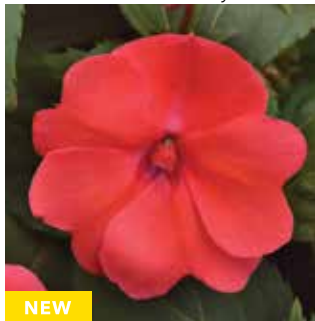
White Pearl



**Magenta Bliss**  
Medal of Excellence Industry's Choice



**Orange Burst**  
Medal of Excellence Industry's Choice



**NEW**  
Salmon Punch



White Pearl



4 in./10 cm



Quart/12 cm



Gallon



306 Pack



1801 Tray



**INTERSPECIFIC  
IMPATIENS**   
*Impatiens hybrida*

**Solarscape® Series F1**



**Height:** 9 to 11 in./23 to 28 cm  
**Spread:** 15 to 20 in./38 to 51 cm  
**Flower size:**  
2.5 to 2.75 in./6 to 7 cm

**Seed supplied as:** Raw

**Plug crop time:**  
(288) 4 to 5 weeks,  
(128) 5 to 6 weeks  
**Transplant to finish:** 7 to 10 weeks

- Great low-maintenance plant provides high-impact colour in full-sun spaces, whether in the ground or in containers.
- The first interspecific impatiens series from seed offers growers the flexibility of an input that is available all year round, making scheduling a breeze.
- These resilient impatiens can bounce back without aborting flower buds when watered after drying down.
- Seed-propagated Solarscape provides the same garden performance as vegetative interspecific impatiens without the royalties! Perfect for opening-price-point, non-branded programs at retail.
- Blooms have tropical appeal, with a satiny texture in vibrant, glowing hues.

**Magenta Bliss** Features a vibrant, two-tone magenta colour and is the model for the series.

**Orange Burst** Deep coral-orange flowers with some shading to a light salmon-orange.

**NEW Salmon Punch** Provides a saturated salmon colour on a well-branched, uniform plant habit.

**White Pearl** Showcases a crisp, white flower with a small pink eye on a tidy, uniform, mounding habit.



NEW

**XL Brilliant Gems Mixture**



NEW

**XL Brilliant Gems Mixture**



**XL Lilac Spark**



**XL Pink Jewel**

*All-America Selections Winner*

**Solarscape® XL Series F1**



**Height:** 11 to 13 in./28 to 33 cm  
**Spread:** 18 to 20 in./46 to 51 cm

**Flower size:**  
 2.5 to 2.75 in./6 to 7 cm

**Seed supplied as:** Raw

**Plug crop time:** (288) 4 to 5 weeks, (128) 5 to 6 weeks

**Transplant to finish:** 7 to 10 weeks

- XL plant height averages about 20% larger than standard Solarscape.

**XL Lilac Spark** Features large lilac flowers with a splash of rose in the centre for a unique, eye-catching bicolor pattern.

**XL Pink Jewel** Brings a vivid pink colour and large flower size with a larger plant habit.

**NEW XL Brilliant Gems Mixture** A bright mix of lilac, hot pink and blush shades, available for a limited time.

**Glowing colour for sun AND shade spaces**

Solarscape seed-propagated interspecific impatiens provides unbeatable colour in full-sun garden beds and containers. Durable Solarscape performs just like vegetative varieties, with the flexibility of seed, and it makes a strong display in the sun!



**XL Lilac Spark**



**XL Pink Jewel**

*All-America Selections Winner*



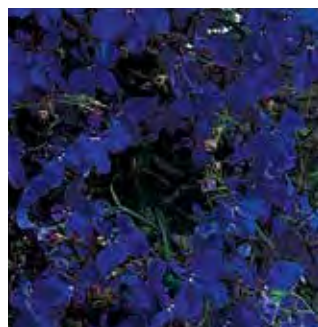
Regatta Sky Blue



Regatta Series



Regatta Lilac



Regatta Midnight Blue



Crystal Palace



Regatta Rose  
*Fleuroselect Novelty*



Regatta White



Regatta Mixture

**COMPACT LOBELIA** 🌈

*Lobelia erinus*

**Crystal Palace**

Height: 5 in./13 cm  
Spread: 6 to 8 in./15 to 20 cm

Seed supplied as:  
Raw, Multi-Seed Pellets

Plug crop time: 4 to 5 weeks  
Transplant to finish: 8 to 9 weeks

- Dark blue flowers and bronze foliage.
- Controlled habit and dense flowering make this variety ideal for packs and efficient production.

**Regatta Series**

Height: 6 to 8 in./15 to 20 cm  
Spread: 10 to 12 in./25 to 30 cm

Seed supplied as:  
Raw, Multi-Seed Pellets

Plug crop time: 4 to 5 weeks  
Transplant to finish: 8 to 10 weeks

- Flowers up to 4 weeks earlier than other trailing varieties, perfect for selling in bloom during Spring.
- Vigorous plants flower profusely, cascading over the edge of hanging baskets, larger containers and colour bowls.



Blue Eyes



Blue Splash



Lilac



Midnight Blue

**Riviera Series**

Height: 5 in./13 cm  
Spread: 8 in./20 cm

Seed supplied as:  
Raw, Multi-Seed Pellets

Plug crop time: 4 to 5 weeks  
Transplant to finish: 5 to 6 weeks

- Extra early-flowering series blooms about 15 days earlier than standard varieties for reduced bench time and extended selling season.
- Ball-shaped plants stay compact and mounded, making them perfect for beds, borders, containers and colour bowls.

**PERENNIAL LOBELIA**

**Starship Series**, page 144.

**LOBULARIA**  
See *Alyssum*.



Marine



Rose



Sky Blue



White  
*Fleuroselect Novelty*



Mixture



Yellow



Gold



Orange



Yellow



Mixture

**AFRICAN (AMERICAN) MARIGOLD** ●

*Tagetes erecta*

**Taishan® Series F1**

**Height:** 10 to 12 in./25 to 30 cm

**Spread:** 8 to 10 in./20 to 25 cm

**Seed supplied as:**

Coated, De-tailed

**Plug crop time:** 3 weeks

**Transplant to finish:**

Spring 5 to 6 weeks, Summer 7 to 8 weeks

- Best dwarf African marigold for landscapes - 20% shorter peduncles and 15% thicker stems assure less stretch and breakage.
- Big, tightly petalled blooms on super-strong stems look terrific at retail with less waste, better overhead watering tolerance and longer shelf life.
- Better branching with more aggressive side branching fills packs quickly and delivers a healthier look.
- Larger flowers hold their doubleness and shed water well.
- Performance is so spectacular that Taishan was featured in landscapes at the 2008 Olympic Games in Beijing, China.



Gold



Yellow



Orange

### Marvel II™ Series F<sub>1</sub>

**Height:** 16 to 18 in./41 to 46 cm  
**Spread:** 10 to 12 in./25 to 30 cm  
**Flower size:** 3 to 3.5 in./8 to 9 cm

**Seed supplied as:**  
 Coated, De-tailed

**Plug crop time:** 3 weeks

**Transplant to finish:**  
 Spring 5 to 6 weeks,  
 Summer 7 to 8 weeks

- This intermediate-type African marigold offers improved branching, earliness, flower size and a brighter flower colour.
- Series is uniform under both short and long days.
- Performance-tested durability; sturdy stems hold up in shipping and poor weather.



Mixture



Yellow



Bonanza Series



Bee



Bolero US PVP 201800074



Deep Orange US PVP 201800517  
Fluoreselect Novelty



Flame



Gold



Harmony



Mixture

**FRENCH MARIGOLD** ●  
*Tagetes patula*

DWARF CRESTED  
FRENCH MARIGOLD

**Bonanza™ Series**



**Height:** 10 to 12 in./25 to 30 cm  
**Spread:** 6 to 8 in./15 to 20 cm

**Seed supplied as:**  
Coated, De-tailed

**Plug crop time:** 3 weeks  
**Transplant to finish:** 3 to 4 weeks

- Double crested flowers are the largest of any in this type - 2 to 3 in./5 to 8 cm across - in a wide range of pure, intense colours.
- Fast to flower with a tight flowering window.
- Excellent garden performers under a wide range of conditions.

**Bee**  
Mahogany with yellow edging.

**Bolero** Attractive bicolour.

**Harmony** Bronze with gold centre.

**Bigger blooms + better performance**

The market leader in French marigolds, Bonanza is the series to choose when you want to pump up your pack sales. This popular series delivers earliness, large flowers, uniformity and superior performance under a wide range of conditions.



Janie Bright Yellow



Janie Deep Orange

**Janie Series**

Height: 8 to 10 in./20 to 25 cm  
 Spread: 6 to 8 in./15 to 20 cm

Seed supplied as:  
 Coated, De-tailed

Plug crop time: 3 weeks  
 Transplant to finish: 3 to 4 weeks

- Good for warmer markets or for late-season sales further north - very heat-tolerant with good garden vigour in warmer temperatures.
- Early and uniform in the pack, with excellent shelf life.
- Compact plants hold crested, 2-in./5-cm flowers nicely above the foliage.



Fireball US 10,750,692; EP3224371

**Fireball & Strawberry Blonde**

**Fireball**  
 Height: 10 to 12 in./25 to 30 cm  
 Spread: 6 to 8 in./15 to 20 cm  
 Flower size: 2.5 in./6 cm

**Strawberry Blonde**  
 Height: 8 to 10 in./20 to 25 cm  
 Spread: 8 to 10 in./20 to 25 cm  
 Flower size: 2.25 in./6 cm

- Seed supplied as:  
 Coated, De-tailed
- Plug crop time: 3 weeks  
 Transplant to finish:  
 Premium packs, 3 to 4 weeks;  
 Quarts or multi-plants in larger pots, 4 to 6 weeks
- Meet the "New World marigolds" - Fireball and companion Strawberry Blonde introduce germplasm never seen before in African or French marigolds that puts multicolour blooms on the same plant.
  - Completely new look for premium packs, pots and decorative containers.
  - In early Spring growing conditions, flowers age and change colour more slowly for maximum contrast. In warmer conditions, colour changes faster with less distinct contrast.

**Flamenco**  
 Height: 10 to 12 in./25 to 30 cm  
 Spread: 6 to 8 in./15 to 20 cm  
 Flower size: 2 to 3 in./5 to 8 cm

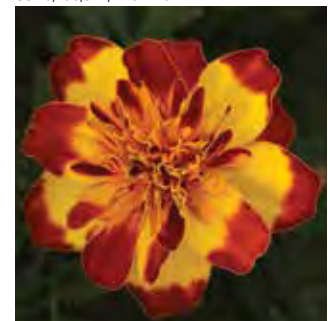
Seed supplied as:  
 Coated, De-tailed

Plug crop time: 3 to 4 weeks  
 Transplant to finish:  
 3 to 4 weeks (cell pack);  
 4 to 5 weeks (quart, 4 in./10 cm)

- With its yellow centre and red-tipped petals, this novelty colour will look great in patio containers and gardens alike.
- This standalone variety in the French Marigold assortment calls out its unique pattern, similar to Fireball and Strawberry Blonde.
- Flamenco is in line with the Bonanza series for habit; flowering time is a few days later.



Strawberry Blonde  
 US 10,750,692; EP3224371



Flamenco US PVP 202000034



**Mixture** US 9,320,212; US 9,326,464; US 9,326,465; US 9,326,466; US 9,326,467; US 9,326,468



**Fire**



**Flame** US 9,326,468



**Gold** US 9,320,212



**Harmony** US 9,326,464



**Orange** US 9,326,467

HEAT-TOLERANT EXTRA-DWARF  
CRESTED FRENCH MARIGOLD

**Hot Pak™ Series**



**Height:** 6 to 7 in./15 to 18 cm  
**Spread:** 6 to 8 in./15 to 20 cm

**Seed supplied as:**  
Coated, De-tailed

**Plug crop time:** 3 weeks  
**Transplant to finish:** 3 to 4 weeks

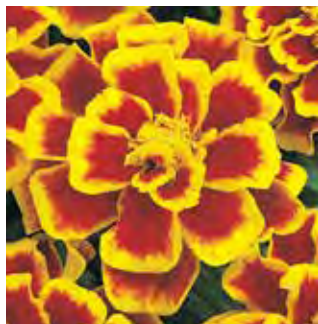


**Spry** US 9,326,466

- Extend the marigold season with the first French marigold series bred to bloom all Summer long, even in the highest temperatures and humidity - "developed in the heat for the heat."
- Includes all the key colours, perfectly genetically matched.
- Stays compact and keeps on flowering without stretching or falling over.
- Produces 1.75 to 2-in./ 4.5 to 5-cm blooms.
- Ideal for pack programs and landscapes.



**Yellow** US 9,326,465



Bee



Bolero



Flame



Gold

DWARF ANEMONE  
FRENCH MARIGOLD

**Durango® Series**

**Height:** 10 to 12 in./25 to 30 cm

**Spread:** 6 to 8 in./15 to 20 cm

**Seed supplied as:**  
Coated, De-tailed

**Plug crop time:** 3 weeks

**Transplant to finish:** 4 to 5 weeks

- Early-blooming series sets the highest standard for anemone-type marigolds - excellent branching, strong stems, abundant blooms.
- Delivers a well-matched, 5 to 7-day flowering window across all colours.
- Produces uniformly shaped, extra-large, 2 to 2.5-in./ 5 to 5.5-cm flowers atop bushy plants.

**Bee**  
Mahogany edged with yellow.

**Bolero** Golden yellow flower petals tipped with red.

**Flame**  
Mahogany edged with orange.

**Outback Mixture** Bolero, Red, Tangerine, Yellow. Very uniform for timing, habit and flower size.

**CUT FLOWER MARIGOLD,**  
page 180.

**MATRICARIA**  
See **Cut Flowers**, page 180.



Orange



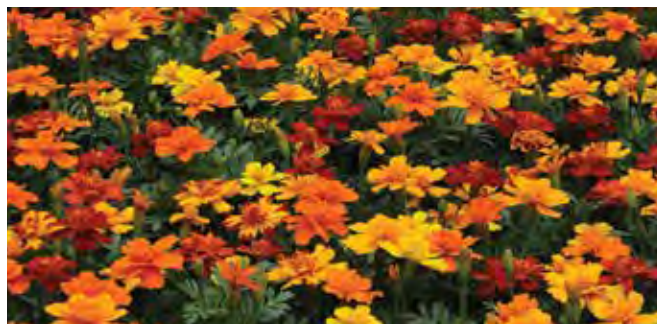
Red



Tangerine



Yellow



Mixture



Outback Mixture



**Sundrops Mixture**  
 Fleuroselect Gold Medal  
**NEMESIA** ●●  
*Nemesia strumosa*

**Sundrops Mixture**

**Height:** 10 in./25 cm  
**Spread:** 8 to 10 in./20 to 25 cm  
**Seed supplied as:** Raw  
**Plug crop time:** 4 weeks  
**Transplant to finish:** 8 weeks

- Diverse colour range - gold, rose, red shades and white - in a wide array of patterns.
- Early-blooming, compact plants are ideal for small containers.
- Useful as a cool-season crop to accompany Spring pansies.
- Timing fits into the cineraria/ calceolaria crop time.



**Mini Mint Ornamental Mint**  
**ORNAMENTAL MINT** ●●●  
*Mentha requienii*

**Mini Mint**

**Height:** 1 to 2 in./3 to 5 cm  
**Spread:** 6 to 12 in./15 to 30 cm  
**Seed supplied as:** Multi-Seed Pellets  
**Plug crop time:** 2 to 3 weeks  
**Transplant to finish:** 3 to 4 weeks

**USDA Hardiness Zones:**  
 6a to 9b (-10 to 25°F/-23 to -4°C minimum temperatures)

- Easy, economical way to grow and sell this attractive, highly fragrant groundcover or small potted plant.
- Each multi-seed pellet contains 8 to 12 seeds - one plug in a 4-in./10-cm pot delivers a nice fast fill. Can be direct sown.
- Eliminates dividing, rooting cuttings and broadcasting seed.
- Healthier, more uniform plants make great-looking 4-in./10-cm pots, mix components and garden specimens. Can also be marketed as a lawn replacement.

*NOTE: Leaves are non-toxic but do not have a palatable flavour.*



**Kirigami Ornamental Oregano**  
 US PVP 201800057  
**ORNAMENTAL OREGANO** ●●  
*Origanum x hybrida*

**Kirigami**

**Height:** 8 to 10 in./20 to 25 cm  
**Spread:** 12 to 14 in./30 to 36 cm  
**Seed supplied as:** Raw

**Plug crop time:** 5 to 6 weeks  
**Transplant to finish:** 9 to 11 weeks

- The perfect patio plant, this eye-catching, non-culinary oregano features large purple-green bracts, rose flowers and clear, light green foliage, with a delicious fragrance to attract pollinators.
- Dense, mounded, slightly trailing plant has a tighter and fuller habit than standard vegetative varieties, so it holds better in shipping and on the retail bench.
- Heat and drought tolerant, with an eye-catching display of texture from Spring until Autumn.
- Also perfect for hanging baskets, or in borders and rock gardens; can also be dried for use in dried flower arrangements.
- Higher light and cooler night temperatures accent the purple bract colour.



**Copper Prince**  
**ORNAMENTAL MILLET** ●●●  
*Pennisetum glaucum*

Unique accent plants are appealing at retail and make a dramatic statement in mixed containers, gardens and landscapes.

**Copper Prince F1**

**Height:** 24 to 36 in./61 to 91 cm  
**Spread:** 18 to 24 in./46 to 61 cm

**Seed supplied as:** Raw  
**Plug crop time:** 2 to 3 weeks  
**Transplant to finish:** 4 to 5 weeks (green)

- Exciting colour for the only ornamental millet seed assortment on the market. Copper Prince begins as a light caramel colour, deepening to copper as it sends up rosy, foxtail-type panicles.
- Rose-bronze panicles add late Summer interest.
- Wide blades and excellent tillering, plus height and spread like Jade Princess, make this variety perfect for large containers and landscapes.



**Purple Majesty** All-America Selections Gold Medal Winner

**Jade Princess F1**



**Height:** 24 to 30 in./61 to 76 cm  
**Spread:** 18 to 24 in./46 to 61 cm

**Seed supplied as:** Raw

**Plug crop time:** 2 to 3 weeks  
**Transplant to finish:** 4 to 5 weeks (green)

- Intense chartreuse foliage and rich brown, pollenless panicles have a controlled, mounded shape that is more compact than others in the assortment, so plants ship well.
- Economical grower option – seed can be direct-sown into finish containers, plants are well-suited to pot sizes up to gallons, and the crop finishes fast.
- Great tillering, leading to a bushy plant habit that's perfect for large containers and landscapes.

*NOTE: Jade Princess requires warmer temperatures (above 60°F/16°C) than other millets to perform well.*

**Jester F1**



**Height:** 36 to 48 in./91 to 122 cm  
**Spread:** 10 to 14 in./25 to 36 cm

**Seed supplied as:** Raw

**Plug crop time:** 2 to 3 weeks  
**Transplant to finish:** 4 to 5 weeks (green)

- Young leaves are chartreuse with a subtle burgundy overlay; mature foliage becomes dominantly burgundy, especially in full sun. Plants end the season with nearly the same bronze-purple colour as Purple Majesty.
- Jester flowers 7 to 10 days later than Purple Baron and Purple Majesty, and stays compact longer.
- Best grown warm.

**Purple Baron F1**



**Height:** 30 to 40 in./76 to 102 cm  
**Spread:** 10 to 14 in./25 to 36 cm

**Seed supplied as:** Raw

**Plug crop time:** 2 to 3 weeks  
**Transplant to finish:** 4 to 5 weeks (green)

- Large, thick flower spikes on plants that are better-branched at the base than Purple Majesty.
- Slightly darker purple than Purple Majesty, with leaves that are shorter and wider for easier shipping, on a plant that is about two-thirds the mature height.
- Young plants are green; stem and midrib begin to develop purple colour as they mature.
- Shows best colour in full sun.

**Purple Majesty**



**Height:** 48 to 60 in./122 to 152 cm  
**Spread:** 8 to 12 in./20 to 30 cm

**Seed supplied as:** Raw

**Plug crop time:** 2 to 3 weeks  
**Transplant to finish:** 4 to 5 weeks (green)

- Young plants are green. Stem and midrib of the foliage first turn purple after about 8 leaves have developed. Foliage turns dark purple when plants are moved from the greenhouse outside into full sun.
- Also makes a good cut flower.

**MYOSOTIS**

See **Perennials**, page 145.



**Purple Baron**



**Jade Princess**



**Jester**



Hawaii Sunset Mixture



Daisy White All-America Selections Winner, Fleuroselect Gold Medal



Lavender Shades



Purple



White Purple Eye



White



Sunset Shades



Grand Canyon Mixture



Mixture

**OSTEOSPERMUM** ●

*Osteospermum ecklonis*

**Akila® Series F1**

**Height:** 10 to 14 in./25 to 36 cm

**Spread:** 14 to 20 in./36 to 51 cm

**Flower size:** 2 to 3 in./5 to 8 cm

**Seed supplied as:** Raw

**Plug crop time:** 4 to 5 weeks

**Transplant to finish:**

Spring 10 to 12 weeks,

Autumn 7 to 9 weeks

- Sow easy, so awesome!
- The most compact seed series matches or surpasses any vegetative series for easy, no-pinch production; terrific uniformity and top-selling colours.
- Delivers 5% higher germination than competitors for higher yields - it's the best seed-grown osteo for both habit and seed quality.
- Excellent branching assures better pot fill and great bench-to-garden performance.
- Well-suited to mechanized production and high-density programs.
- Plants branch without pinching, all colours flower within a 7 to 10-day window across the Akila series and no vernalisation is needed.
- Full, well-branched plants are drought tolerant once established.

**Daisy White**

Petals have a yellow back.

**Sunset Shades**

Multicolour segregating mix includes popular colours like yellow, magicians and rose-reds, plus salmon, apricot and orange shades. A gorgeous mix of the colours of the setting sun.

**Grand Canyon Mixture**

First multicolour segregating mix includes popular colours like yellow, magicians and rose-reds, as well as purple, lavender, creams and whites.

**Hawaii Sunset Mixture**

Exciting segregating mix has vibrant bicolours, including yellow/gold with a pink centre, orange/bronze with a pink/purple centre, rose/mauve with a purple centre and bronze/scarlet with a purple centre. Flower timing is similar to Lavender and Purple, and habit is most similar to White.



True Blue and Yellow

**PANSY** ●●

*Viola x wittrockiana*

MULTIFLORA PANSY

**Panola® XP Series F1**

**Height:** 6 to 8 in./15 to 20 cm

**Spread:** 8 to 10 in./20 to 25 cm

**Flower size:** 2 to 2.25 in./5 to 6 cm

**Seed supplied as:** Raw, Primed

**Plug crop time:** 5 weeks

**Transplant to finish:**

Spring 4 to 5 weeks,

Autumn 3 to 4 weeks

- Features a tight 5 to 7-day flowering window, very uniform habit and shorter peduncles across a broad array of colours.
- Exceptional overwintering ability makes Panola XP the best choice for overwintering-guarantee pansy programs.
- Free flowering, well branched and compact, the early-blooming plants maintain their garden height with less stretch in warm climates.
- Plants produce an abundance of blooms for a good flower show in the landscape.
- Landscaper-friendly clear colours are perfect for mixing custom blends.
- Ideal for packs and 4-in. (9 to 10.5-cm) pots.



Deep Orange



Purple



Scarlet



True Blue



White



Yellow



Beaconsfield



Deep Blue Blotch



Yellow Blotch



Rose Picotee



Citrus Mixture



Clear Mixture



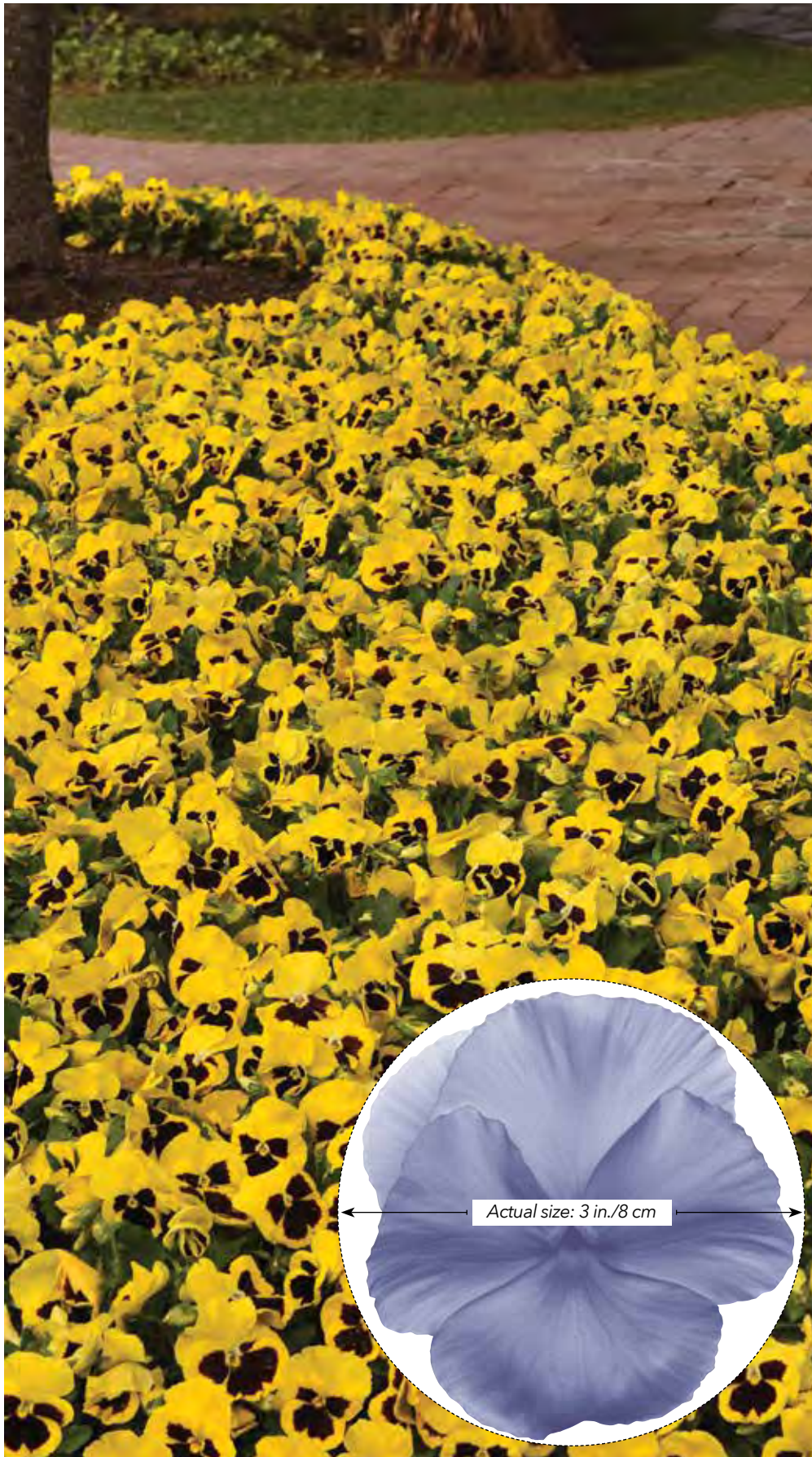
Mixture

**XP Citrus Mixture** XP Deep Orange, XP White, XP Yellow.

**XP Clear Mixture**

Includes all clear Panola XP colors.

**XP Mixture** All Panola XP colors.



Yellow Blotch

**The best pansy for shorter days and cool growing**

Spring Matrix is designed to be very uniform with a well-branched habit for cool-season, short-day growing conditions - or when you need a large bloom that maintains good presentation under cold, dark, wet Winter production.

LARGE-FLOWERED PANSY

**Spring Matrix™ Series F1**

**Height:** 8 in./20 cm  
**Spread:** 8 to 10 in./20 to 25 cm  
**Flower size:** 3 in./8 cm

**Seed supplied as:** Raw, Primed

**Plug crop time:** 5 weeks

**Transplant to finish:**  
 Spring 6 to 7 weeks,  
 Autumn 4 to 5 weeks

- The most uniform Spring-flowering series produces large blooms that maintain good presentation under cold, dark, wet Winter production.
- Plants look better, last longer and have the tightest flowering window for less dump.
- Superior branching without stretching puts more flowers on every plant.
- Ideal for packs and 4-in. (9 to 10.5-cm) pots.

**Blue Wing** Displays stronger blue colour under cool temperatures.

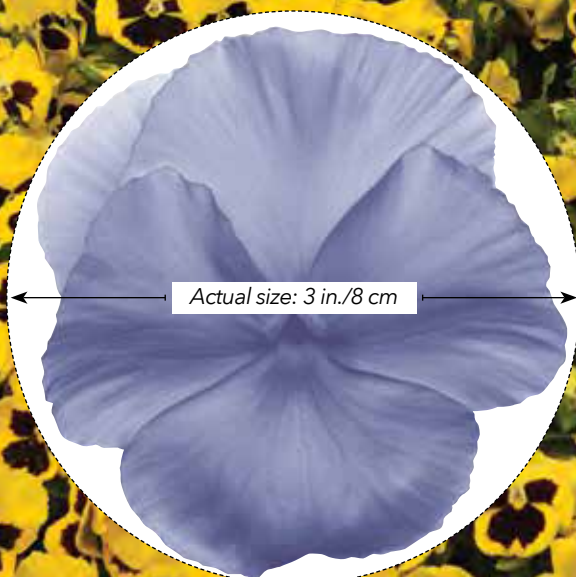
**Lemon** Shows different shades of lemon and yellow in the population.

**Blotch Mixture**  
 Blue Blotch, Ocean, Red Blotch, White Blotch and Yellow Blotch.

**Clear Mixture**  
 All the clear varieties.

**Daffodil Mixture**  
 Deep Orange, Lemon, Yellow, White.

**Tricolor Mixture**  
 Blue, Lemon, Purple.





Blue



Blue Blotch



Beaconsfield



Purple



Rose



Red Blotch



Scarlet



Deep Orange



Lemon



Yellow



Yellow Blotch



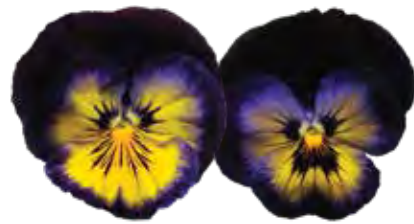
White



White Blotch



Blue Wing



Midnight Glow



Pink Shades



Purple & White



Sangria



Clear Mixture



Daffodil Mixture



Blotch Mixture



Mixture



Tricolor Mixture



Yellow

**Pansy growing made easy**

Matrix is your best option for longer days and warmer growing. Its uniformity of timing and plant habit simply can't be beaten by any other varieties in the marketplace. Only Matrix has a tight bloom window in Autumn production that allows every colour to ship the same week.

EXTRA-LARGE FLOWERED PANSY

**Matrix® Series F1**

**Height:** 8 in./20 cm  
**Spread:** 8 to 10 in./20 to 25 cm  
**Flower size:** 3.5 in./9 cm

**Seed supplied as:** Raw, Primed

**Plug crop time:** 5 weeks

**Transplant to finish:**  
 Spring 6 to 8 weeks,  
 Autumn 4 to 6 weeks

- Matrix offers less handling, less waste and exceptional holding power for higher profitability.
- 7-day bloom window across all colours in Autumn production makes scheduling and growing easy.
- Extra-large flowers hold up to the heat and PGR stress in Summer/Autumn production.
- Low-maintenance series gives pro landscapers the best choice for uniform colour striping, plus the most flowers per plant of any large-flowered pansy.
- Ideal for packs and 4-in. (10-cm) pots.

**Beaconsfield** Largest flowers of this type on the market.

**Midnight Glow**

Features a yellow centre with a deep violet halo around it. Great for Autumn programs.

**Solar Flare**

Blooms show more red in cool temperatures and more yellow in warmer temperatures.

**Yellow Purple Wing**

Yellow face with a purple cap is a perfect colour addition for Autumn programs.

**Matrix Mixes**

**Autumn Blaze Mixture**

Red Blotch, Red Wing, Yellow, Yellow Blotch.

**Blotch Mixture**

Deep Blue Blotch, Ocean, Red Blotch, Red Wing, Rose Blotch, Yellow Blotch, White Blotch.

**Citrus Mixture** Orange, White, Yellow and Spring Matrix Lemon.

**Clear Mixture** Light Blue, Orange, Purple, Rose, Yellow, White and Spring Matrix Lemon.

**Coastal Sunrise Mixture**

Ocean, Rose Blotch, Sunrise.

**Ocean Breeze Mixture**

Deep Blue Blotch, Ocean, White Blotch.



Light Blue



Orange



Primrose



Purple



Rose



True Blue



White



Yellow



Beaconsfield



Blue Blotch



Denim



Deep Blue Blotch



Midnight Glow



Ocean



Red Blotch



Rose Blotch



Solar Flare



White Blotch



Yellow Blotch



Red Wing



Yellow Purple Wing



Sunrise



Rose Wing



Morpheus



Lavender Shades



Coastal Sunrise Mixture

Matrix Mixes



Clear Mixture



Citrus Mixture



Blotch Mixture



Autumn Blaze Mixture



Coastal Sunrise Mixture



Ocean Breeze Mixture



Mixture



Blue



Burgundy



Lemonberry



Orange

## RUFFLED PANSY

**Frizzle Sizzle Series F1****Height:** 6 to 8 in./15 to 20 cm**Spread:** 8 to 10 in./20 to 25 cm**Flower size:** 2.5 in./6 cm**Seed supplied as:** Raw, Primed**Plug crop time:** 5 weeks**Transplant to finish:**

Spring 6 to 8 weeks,

Autumn 4 to 6 weeks

- PanAmerican Seed is the only professional supplier of this unique, frilly flower form - count on reliable seed supply.
- Great for cool-season Winter and early Spring end cap displays.
- Looks great in containers and "close-up" landscapes.
- Stronger ruffling occurs in cool conditions; Spring production is recommended.
- Ideal for 4-in. (9 to 10.5-cm) and larger pots.

**Raspberry** Shades of white with rose cap/edge.**Mixture** Also includes Lavender Shades (not available separately).

Raspberry



Yellow



Yellow-Blue Swirl



Mixture



Mixture



NEW

Violet Improved

**You're in luck with Lucky Star!**

With Lucky Star, you'll have the advantage of super-fast follow-up blooming and nonstop colour, so your plants look better getting off the truck and they just keep getting better in the store! Plus, this colour-rich series has a tight, compact habit that keeps them looking tidy with virtually no effort.

**PENTAS** ●  
*Pentas lanceolata*

**Lucky Star® Series F1**

**Height:** 12 to 16 in./30 to 41 cm  
**Spread:** 12 to 14 in./30 to 36 cm  
**Seed supplied as:** Pelleted  
**Plug crop time:** 6 to 7 weeks  
**Transplant to finish:** 7 to 8 weeks

- *Stays in colour...really!*  
With the fastest follow-up blooming of any full-colour series pentas on the market and a 1-week bloom window, Lucky Star maintains a consistent show of colour from retail through end-of-season.
- Follow-up blooms do not eclipse the prior flush, so plants stay compact, tight and ready for sale at retail with minimal work.

**NEW Violet Improved**  
Faster secondary, follow-up blooming and a deeper and brighter colour intensity than other violet pentas on the market.

**Mixture**  
Includes all the colours in the series.



Lucky Star Series



Dark Red



Deep Pink



Lavender



Lipstick



Pink



White



Lavender



Mixture



White



**Butterfly Deep Pink**



**Glitterati Purple Star** US 10,631,515



**Glitterati Red Star** US 10,631,515



**Butterfly Deep Rose**



**Butterfly Light Lavender**



**Butterfly Orchid**



**Butterfly Red**



**Butterfly White**



**Butterfly Mixture**

PENTAS continued

**Butterfly™ Series F1**

**Height:** 12 to 22 in./30 to 56 cm  
**Spread:** 10 to 18 in./25 to 46 cm

**Seed supplied as:** Pelleted

**Plug crop time:** 6 to 8 weeks

**Transplant to finish:**  
South 8 to 10 weeks,  
North 10 to 12 weeks

- Hybrid vigour provides better stress tolerance than open-pollinated varieties.
- Gives pro landscapers and gardeners alike a mid-size, full-sun series that flourishes in high heat/humidity and tolerates Summer rains well while still showing colour.
- Can be sold as a late Spring to Summer item in cooler areas.
- Large, star-shaped umbels - up to 3 in./8 cm across - attract butterflies and hummingbirds.

**Glitterati™ Series F1**

**Height:** 12 to 22 in./30 to 56 cm  
**Spread:** 10 to 18 in./25 to 46 cm

**Seed supplied as:** Pelleted

**Plug crop time:** 6 to 7 weeks

**Transplant to finish:** 8 to 10 weeks

- A sure winner! Combines a unique look for pentas, while still offering the heat/humidity performance this class is known for.
- Distinctive, patented star pattern combines easily with other varieties, adding an exciting component for warm/hot season combinations.
- Finishes fast for speed to market, and follow-up blooming keeps the plants in full colour and looking good all season.

**Red Star** Distinctive combination of red and white with a star pattern that is great for Summer patio pots and combinations. Complements Glitterati Purple Star, which was introduced in 2018.

**ORNAMENTAL PEPPER** ●

*Capsicum annuum*

**Seed supplied as:** Raw

**Plug crop time:** 4 to 5 weeks

- Best in 6 and 8-in./15 and 20-cm pots, gallons and Mum Pals programs.

**Black Pearl**

**Height:** 14 to 18 in./36 to 46 cm; may grow to 3 ft./91 cm or more in warmer areas with longer growing seasons

**Spread:** 12 to 16 in./30 to 41 cm

**Transplant to finish:**

6 to 7 weeks for Autumn finish (no mature fruit)

- The first black-leaved ornamental pepper is ideal for landscapes and mixed containers.
- Bushy, upright, well-branched plants have greenish foliage when young that matures to glossy black with high light and heat.
- In the landscape, plants develop rounded, shiny black fruit that matures to dark red.

*NOTE: Fruit is hot.*

**Calico F1**

**Height:** 10 to 12 in./25 to 30 cm

**Spread:** 14 to 16 in./36 to 41 cm

**Transplant to finish:**

6 to 7 weeks for Autumn finish (no mature fruit)

- High-appeal, strongly variegated foliage.
- Compact, well-branched and rounded accent plants are uniform in size across the crop for easy production.
- Heat tolerant; great for landscaping and mixed containers.

*NOTE: Fruit is hot.*

**Midnight Fire**

**Height:** 9 to 12 in./23 to 30 cm

**Spread:** 14 to 16 in./36 to 41 cm

**Transplant to finish:**

7 to 13 weeks for Autumn finish

- Well-branched plants are perfect for stunning Autumn combination planters and large container programs at retail.

**Purple Flash**

**Height:** 13 to 15 in./33 to 38 cm

**Spread:** 19 to 21 in./48 to 53 cm

**Transplant to finish:** 6 to 7 weeks for Autumn finish (no mature fruit)

- Striking colouration and interesting plant architecture enhance gardens and mixed containers all Summer long.
- Layered, scaffolding habit creates an exotic look.
- Compact, mounded plants are uniform in size across the crop for easy production.

*NOTE: Fruit is hot.*

**Sangria F1**

**Height:** 10 to 12 in./25 to 30 cm

**Spread:** 16 to 18 in./41 to 46 cm

**Transplant to finish:**

7 to 13 weeks for Autumn finish

- Child-safe, non-pungent fruit is great for public plantings indoors and out.
- Indeterminate plants always have both purple and red peppers for continuous, eye-catching displays.
- Well-branched and somewhat spreading, the uniform, full-bodied plants are ideal for filling in landscapes and containers.

**Sedona Sun**

**Height:** 9 to 12 in./23 to 30 cm

**Spread:** 14 to 16 in./36 to 41 cm

**Transplant to finish:**

7 to 13 weeks for Autumn finish

- Here's another opportunity to expand Autumn sales in your large pot and home gardener landscape programs.
- Masses of distinctive lemon yellow and carrot orange fruit put a brilliant, multicolour display on every plant.
- Indeterminate habit like Sangria, with similar timing.

*NOTE: Fruit is hot.*

**ORNAMENTAL PEPPER**

Also see **Potted Plants**, page 154.



**Purple Flash**



**Black Pearl** US PVP 200500020 All-America Selections Winner, Fleuroselect Novelty



**Calico** Louisiana Super Plant



**Midnight Fire** Louisiana Super Plant



**Sangria**



**Sedona Sun**



**Yellow** Medal of Excellence Industry's Choice

**PETCHOA**   
*Petunia sp. x Calibrachoa sp.*

**Caliburst™ Yellow F1**

**Height:** 6 to 10 in./15 to 25 cm  
**Spread:** 20 to 28 in./51 to 71 cm  
**Flower size:** 2 to 3 in./5 to 8 cm

**Seed supplied as:** Pelleted

**Plug crop time:** 4 to 6 weeks

**Transplant to finish:**  
 Spring 6 to 7 weeks,  
 Summer 4 to 5 weeks

- The first petchoa from seed!  
 Caliburst takes the best colours from calibrachoa and delivers them in the habit, flower size and product form of petunias.
- Vibrant yellow flower colour looks exceptional in any season.
- Controlled habit is perfect for quarts (13 cm), gallons (17 cm) and baskets (23 cm+).
- Fantastic for mixed combos with both seed and vegetative components.
- Flowers with a 9-hour daylength response.
- Cold durable; it can be produced in early Spring.



**Yellow** Medal of Excellence Industry's Choice



**Yellow**  
 Medal of Excellence Industry's Choice

**Petunia  
Power + Cool  
Calibrachoa  
Colours =  
Extraordinary  
Success!**

PanAmerican Seed is excited to introduce Caliburst, *the first petchoa from seed!* With the **vibrant colours** from calibrachoa, the **cold-durable production** and **daylength requirements** of Wave petunias, and the ease of seed, it's the perfect formula for excellent Spring and Summer sales! Caliburst performs like a vegetative variety, with the flexibility of seed. With its controlled, manageable habit, it's the **coolest for combos** and containers.



Caliburst Yellow Petchoa and Easy Wave Rose Petunia



Caliburst Yellow Petchoa and Easy Wave NEW Pink Pearl and Lavender Sky Blue Petunia



Caliburst Yellow Petchoa and E3 Easy Wave Blue Petunia



**Burgundy**

**Delivers like a dream!**

Getting your crop sown, grown and off to market right on schedule is every grower's fondest wish. Dreams delivers a well-matched Spring bloom time window across all colours. No need to pick and choose from several series...now that's a dream come true!

**PETUNIA** ●  
*Petunia x hybrida*

GRANDIFLORA SINGLE PETUNIA

**Dreams™ Series F1**

**Height:** 10 to 15 in./25 to 38 cm

**Spread:** 10 to 12 in./25 to 30 cm

**Flower size:**

3.25 to 3.5 in./8 to 9 cm

**Seed supplied as:** Raw, Pelleted

**Plug crop time:** 5 to 6 weeks

**Transplant to finish:** 5 to 6 weeks

- Well-branched habit and plant structure assure a high-quality look and excellent performance.
- Consistently high seed quality and good performance in the presence of *Botrytis*.

**Patriot Mixture**

Red, White, Midnight.

**Waterfall Mixture**

Midnight, Sky Blue, White.



Appleblossom



Burgundy



Midnight



Neon Rose



Pink



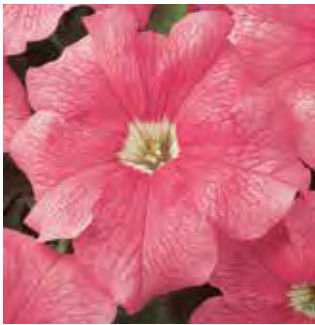
Red



Rose



Rose Morn



Salmon



Sky Blue



White



Burgundy Picotee



Red Picotee



Rose Picotee



Mixture



Patriot Mixture



Waterfall Mixture



**Blackberry** US 7,642,436; EU PAF



**Blackberry** US 7,642,436; EU PAF



**Antique Shades** US 7,642,436; EU PAF



**Blue Morn**



**Lime Bicolor** US 7,642,436; EU PAF



**Lime Green** US 7,642,436; EU PAF



**Sophistica Lime Bicolor, Antique Shades & Lime Green**

GRANDIFLORA  
SINGLE PETUNIA

**Sophistica® Series F1**

The designer Sophistica collection combines beautiful flowers in special one-of-a-kind colours with professional seed quality. These premium petunias can command a higher price point at retail and open the door to decorator opportunities.

**Height:** 10 to 15 in./25 to 38 cm  
**Spread:** 10 to 12 in./25 to 30 cm

**Seed supplied as:** Pelleted

**Plug crop time:** 4 to 5 weeks

**Transplant to finish:** 5 to 6 weeks

- Abundant grandiflora blooms.
- Plants are well-matched for timing for easier scheduling and shipping.
- Mounded, upright habit is ideal for premium pots and larger containers.

**Blackberry** Shimmering black with some reddish-purple undertones; yellow breaks may appear under cold growing regimens combined with B-Nine.

**Blue Morn** Blue margin with silver-white throat; throat will be less noticeable in cooler/greenhouse production, and more noticeable outside and in warm, high-light conditions.

**Lime Bicolor** Consistent with traditional star patterns. In cool/low light conditions, blooms show more rose; in warm/high light conditions, blooms show more lime.

**Lime Green** Yellow with underlying lime tone is a very solid, saturated colour with no veining or fading like traditional yellow petunias.



Blue Daddy



Peppermint Daddy



Red Daddy



Sugar Daddy



Daddy Mixture



Supercascade Blue



Supercascade Burgundy



Supercascade Pink



Supercascade Red

GRANDIFLORA  
SINGLE PETUNIA

**Daddy® Series F1**

Height: 10 to 15 in./25 to 38 cm  
Spread: 10 to 12 in./25 to 30 cm  
Flower size: 4 in./10 cm

Seed supplied as: Raw, Pelleted

Plug crop time: 4 to 5 weeks  
Transplant to finish: 5 to 6 weeks

- The best-selling veined grandifloras and the only full series of veined varieties.
- Features 4-in./10-cm blooms and dependable, high-quality pack habit.

**Sugar**

Light orchid; deep purple veins.

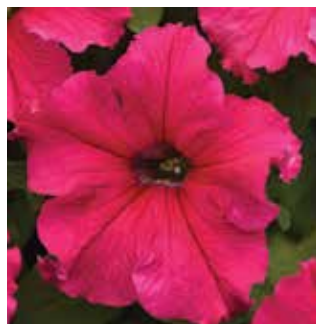
**Supercascade Series F1**

Height: 10 to 15 in./25 to 38 cm  
Spread: 10 to 12 in./25 to 30 cm

Seed supplied as: Raw, Pelleted

Plug crop time: 4 to 5 weeks  
Transplant to finish: 5 to 6 weeks

- Huge, 4 to 5-in./10 to 13-cm flowers deliver great retail and garden impact.



Supercascade Rose



Supercascade White



Supercascade Mixture



**NEW**  
True Blue



Blue



Deep Pink



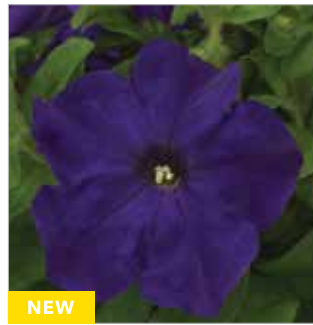
Deep Salmon



Red



Rose



**NEW**  
True Blue

**COMPACT GROWING PETUNIA**  
Grandiflora Ez Rider and multiflora Lo Rider put flexibility at your fingertips and cost savings in your pocket, thanks to their matched and manageable growth from bench to retail. These genetically shorter, more controlled plants need less PGRs and are perfect for high-density programs. The two series are perfect for growing and selling high-density cell packs to "promo" hanging baskets.

**Ez Rider® Grandiflora Series F1**

**Height:** 6 to 10 in./15 to 25 cm

**Spread:** 8 to 12 in./20 to 30 cm

**Flower size:** 3.25 to 3.5 in./8 to 9 cm

**Seed supplied as:** Pelleted

**Plug crop time:** 4 to 5 weeks

**Transplant to finish:** 5 to 6 weeks

**NEW True Blue**

Blooms show more shades and often a lighter tone than other blue varieties.



Violet



White



Mixture

- Up to half the amount of PGRs are needed - or none at all, under some growing regimens.
- Suitable for cold growing.
- Tight bloom window lets you ship and sell all series colours at the same time.
- Better branching with improved airflow reduces the probability of disease, especially *Botrytis*.
- Available in the top-selling colours that make up 75% of petunia sales.
- Enhanced, longer garden performance in containers and gardens - plants hold together and don't lodge later in the season like traditional petunias can.



Rose

**Lo Rider™  
Multiflora Series F1**

Height: 7 to 10 in./18 to 25 cm  
Spread: 8 to 12 in./20 to 30 cm

Seed supplied as: Pelleted

Plug crop time: 4 to 5 weeks  
Transplant to finish: 5 to 6 weeks

Violet Times like Blue in cold production conditions and like Pink in Spring natural daylength.



Blue



Pink



Red



Rose



Violet



White



Mixture



Mid-Blue



Pink

MULTIFLORA SINGLE PETUNIA

**Mirage™ Series F1**

**Height:** 10 to 15 in./25 to 38 cm

**Spread:** 10 to 12 in./25 to 30 cm

**Seed supplied as:** Pelleted

**Plug crop time:** 4 to 5 weeks

**Transplant to finish:** 4 to 5 weeks

**Select colours are available for sale in North America.**

- Delivers outstanding performance at every stage - seed quality, seedling vigour and plant habit.
- Very broad colour range was selected for performance across a wide range of conditions.
- Perfect balance of show at point-of-sale without sacrificing garden performance.
- Beautiful blooms make impressive displays in mass plantings and gardens all season until frost.

Also available: **Mixture**



Blue



Deep Rose



Light Blue



Lilac



Mid-Blue



Pink



Purple



Red



Rose



Salmon



White



Yellow



Blue Vein



Chic



Lavender



Plum Crystal



Plum



Velvet



Spring



Sugar



Summer



Red Morn



Red Picotee



Rose Morn



Blue Star



Burgundy Star



Rose Star



**Double Cascade Bold Mixture**



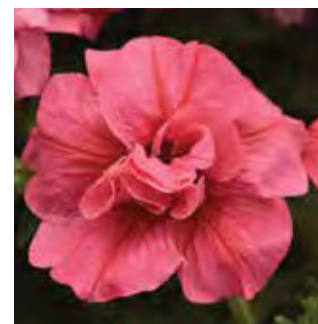
**Duo Blue**



**Duo Burgundy**



**Duo Lavender**



**Duo Salmon**



**Duo Mixture**



**Double Cascade Blue**



**Double Cascade Pink**



**Double Cascade Burgundy**



**Double Cascade Valentine**

**DOUBLE PETUNIA** ●

*Petunia x hybrida*

MULTIFLORA DOUBLE PETUNIA

**Duo Series F1**

**Height:** 10 to 15 in./25 to 38 cm

**Spread:** 10 to 12 in./25 to 30 cm

**Seed supplied as:** Raw, Pelleted

**Plug crop time:** 4 to 5 weeks

**Transplant to finish:** 5 to 6 weeks

**Not available for sale in North America.**

- Excellent seed quality, germination and young plant performance.
- Compact series produces masses of double, 2 to 2.25-in./5 to 5.5-cm flowers on well-branched plants.
- Superb for use in large mixed containers, baskets and beds.

GRANDIFLORA  
DOUBLE PETUNIA

**Double Cascade Series F1**

**Height:** 10 to 15 in./25 to 38 cm

**Spread:** 10 to 12 in./25 to 30 cm

**Flower size:** 3 to 3.5 in./8 to 9 cm

**Seed supplied as:** Raw, Pelleted

**Plug crop time:** 4 to 5 weeks

**Transplant to finish:** 6 to 7 weeks

- Huge double blooms look like carnations.
- Outstanding habit and good branching.
- Excellent program for late Spring sales.
- Well-suited to larger containers, mixed combos and beds.

**Valentine** Beautiful red blooms can have splashes of white appear on some of the tips. Smaller flowers than the rest of the series.

**Bold Mixture** Includes Blue, Burgundy, Pink and Valentine.



21st Century Blue Phlox



21st Century Crimson Phlox



21st Century Pink Phlox



21st Century Scarlet Phlox



21st Century White Phlox



21st Century Mixture Phlox

**Glorious Mixture F1**

Height: 10 to 15 in./25 to 38 cm  
 Spread: 10 to 12 in./25 to 30 cm  
 Seed supplied as: Raw, Pelleted  
 Plug crop time: 4 to 5 weeks  
 Transplant to finish: 6 to 7 weeks

- Bright mix of solids and bicolours.

**Pirouette Series F1**

Height: 10 to 15 in./25 to 38 cm  
 Spread: 10 to 12 in./25 to 30 cm  
 Seed supplied as: Raw, Pelleted  
 Plug crop time: 4 to 5 weeks  
 Transplant to finish: 6 to 7 weeks

- Eye-catching, double fringed flowers in distinctive bicolor picotee patterns.

**PHLOX** ●  
*Phlox drummondii*

**21st Century Series F1**

Height: 10 in./25 cm  
 Spread: 10 in./25 cm  
 Seed supplied as: Primed  
 Plug crop time: 4 to 5 weeks  
 Transplant to finish: 6 weeks

- The world's first F1 phlox delivers outstanding showiness, hybrid germination and vigour.
- Daylength-neutral plants finish fast and uniformly across all colours.
- Vigorous lateral branching makes full, mounded plants, with strong flower power from Spring until frost.
- Outstanding bedding plant also works well in containers.



Glorious Mixture Petunia



Pirouette Purple Petunia  
 All-America Selections Winner



Pirouette Rose Petunia



Pirouette Red Petunia



Silver Shield Plectranthus



Heritage Crème Primula

**PLECTRANTHUS**   
*Plectranthus argentatus*

**Silver Shield** 

**Height:** 24 to 30 in./61 to 76 cm  
**Spread:** 24 to 30 in./61 to 76 cm

**Seed supplied as:** Pelleted

**Plug crop time:** 5 to 6 weeks  
**Transplant to finish:** 8 to 9 weeks

- Robust, vigorous and stress-tolerant accent plants have a bushy, upright habit, excellent in landscapes and combination planters.
- Economical, easy-to-produce seed-grown plants offer better branching than vegetative varieties, with no pinching needed.

**POPPY**  
See **Papaver** in **Perennials**, page 145.

**PRIMULA**   
*Primula acaulis*

**Heritage Crème F1**

**Height:** 5 to 6 in./13 to 15 cm  
**Spread:** 5 to 6 in./13 to 15 cm

**Seed supplied as:** Raw

**Plug crop time:** 5 to 6 weeks  
**Transplant to finish:** 15 to 17 weeks

- Unique breeding delivers a natural "English Primrose" look in a professional-quality product.
- Long-flowering, mid-size blooms and deep green foliage are produced on compact, mounded plants.
- Contains a small percentage of smaller, white-flowered plants.
- Programmable crop can be grown pot-tight in 3.5-in./9-cm programs.



Mixture



Rose



Golden Shades



Pink Shades



Purple

**Primlet® Series**

Height: 5 to 6 in./13 to 15 cm  
 Spread: 5 to 7 in./13 to 18 cm

Seed supplied as: Raw

Plug crop time: 5 to 6 weeks

Transplant to finish:  
 15 to 17 weeks

- Clusters of scented blooms look like mini-rose bouquets.
- Works well in solo planters and small mixed combinations for late Winter and early Spring programs.
- Extended shelf life, long-lasting as an indoor house plant.
- Requires no special culture on the bench.

**Purple** Most vigorous of the series.



Rose



Rose with Edge



Scarlet Red Shades



Sunrise



White



Yellow



Happy Hour Banana Portulaca



Happy Hour Coconut Portulaca



Happy Hour Deep Red Portulaca



Happy Hour Fuchsia Portulaca



Toucan Fuchsia Purslane



Toucan Scarlet Shades Purslane



Happy Hour Lemon Portulaca



Happy Hour Orange Portulaca



Happy Hour Peppermint Portulaca



Happy Hour Rosita Portulaca



Happy Hour Pink Passion Mixture Portulaca



Happy Hour Tropical Mixture Portulaca



Happy Hour Mixture Portulaca

**PURSLANE** ●  
*Portulaca oleracea*

**Toucan Series**

**Height:** 3 to 4 in./8 to 10 cm  
**Spread:** 14 to 16 in./36 to 41 cm  
**Flower size:** 2 in./5 cm

**Seed supplied as:** Raw

**Plug crop time:** 4 to 5 weeks  
**Transplant to finish:** 6 to 7 weeks

- Economical, reliable and programmable seed-grown purslanes for mass-market baskets, containers and groundcover.
- Requires little or no PGRs, no pinching.
- Colourful buds develop into 2-in./5-cm blooms.
- Heat loving and drought tolerant.

*NOTE: We recommend sowing 4 seeds per cell.*

**PORTULACA** ●  
*Portulaca grandiflora*

**Happy Hour™ Series F1**

**Height:** 8 to 10 in./20 to 25 cm  
**Spread:** 10 to 12 in./25 to 30 cm

**Seed supplied as:** Raw, Multi-Seed Pellets

**Plug crop time:** 4 to 5 weeks  
**Transplant to finish:** 5 weeks

- Sow up to 2 weeks earlier than competing bush-type varieties, as Happy Hour is bred to bloom under shorter days than other portulacas - 10.5 hours.
- Tidy, mounded plants are easier to pack and ship, with less breakage than prostrate types.
- Well-branched plants flower uniformly across the series.
- Extra-appealing at retail, with fuller habit and large, double blooms in vivid colours.

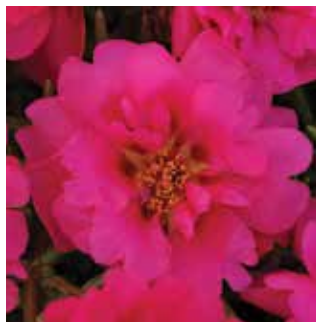
**Mixture** Banana, Coconut, Deep Red, Fuchsia, Lemon, Orange, Rosita and Scarlet (not available separately).

**Pink Passion Mixture** Rosita, Peppermint, Fuchsia.

**Tropical Mixture** Deep Red, Orange, Banana.



Happy Trails Deep Red Portulaca



Happy Trails Fuchsia Portulaca



Happy Trails Orange Portulaca



Happy Trails Peppermint Portulaca



Happy Trails Pink Portulaca



Happy Trails Rosita Portulaca



Happy Trails White Portulaca



Happy Trails Yellow Portulaca

### Happy Trails™ Series F<sub>1</sub>

Height: 6 to 9 in./15 to 23 cm  
Spread: 14 to 18 in./36 to 46 cm

Seed supplied as:  
Raw, Multi-Seed Pellets

Plug crop time: 4 to 5 weeks  
Transplant to finish: 6 weeks

- Trailing portulaca series has the shortest photoperiod on the market today - 10 hours.
- Sow up to 2 weeks earlier than any other trailing portulaca to meet market demands.
- Delivers brilliant colours and fantastic spread in the garden.

#### Peppermint

Pink with fuchsia flecks and some solid fuchsia flowers.

#### Rosita

Unique colour to trailing portulaca.

#### Mixture

Includes Happy Trails solid colour plus Scarlet (not available separately).

#### PERENNIAL RUDBECKIA

See page 147.

### RUELLIA ●

*Ruellia brittoniana*  
(*Ruellia tweediana*)

#### Southern Star Series

Height: 10 to 12 in./25 to 30 cm  
Spread: 16 to 18 in./41 to 46 cm

Seed supplied as: Raw

Plug crop time: 5 to 6 weeks  
Transplant to finish:  
Spring 10 weeks,  
Summer 8 weeks

- The first dwarf ruellia from seed is easy to program and produces clean green foliage.
- Low-maintenance; tolerates both wet and dry conditions.
- Great for southern perennial programs - hardy to Zone 8 (10°F/-12°C minimum temperature).
- Can be used as an in-ground or container annual in other regions, but not recommended for the far North.



Happy Trails Mixture Portulaca



Southern Star Blue Ruellia



Southern Star Pink Ruellia



**Big Blue** US PVP 201700218; EU PBR 49559



**Big Blue** US PVP 201700218; EU PBR 49559

**INTERSPECIFIC SALVIA** ●

*Salvia longispicata x farinacea*

**Big Blue**



**Height:** 24 to 36 in./61 to 91 cm  
**Spread:** 18 to 20 in./46 to 51 cm

**Seed supplied as:** Raw

**Plug crop time (288 tray):** 4 weeks  
**Transplant to finish:** 8 to 13 weeks, depending on light, heat and daylength conditions

- Great performer in heat and low-water conditions.
- Low-maintenance plant does not need deadheading.
- Hummingbirds, bees, butterflies and more flock to Big Blue in the garden.
- At its best in full sun, but will tolerate dappled shade or partial sun.



**Big Blue 1 gallon**

**SALVIA** ●●

*Salvia canariensis*

**Lancelot**

**Height:** 36 to 42 in./91 to 107 cm  
**Spread:** 24 to 30 in./61 to 76 cm

**Seed supplied as:** Raw

**Plug crop time:** 4 to 5 weeks  
**Transplant to finish:** 5 to 6 weeks, foliage only

- A unique plant for the border.
- Produces silvery-white, felted leaves plus lavender flowers in July, with rosy-lavender bracts and a pleasant sage fragrance.
- A water-wise plant and a great pollinator plant, attracting hummingbirds, bees and butterflies.



**Lancelot**



**Lancelot**



Lighthouse Purple



Red Hot Sally II



Vista Red



Lighthouse Red



Vista Lavender

**SALVIA** ●  
*Salvia splendens*

**Lighthouse Series**

**Height:** 24 in./61 cm  
**Spread:** 10 in./25 cm  
**Seed supplied as:** Raw  
**Plug crop time:** 4 to 5 weeks  
**Transplant to finish:** 4 to 5 weeks

- Tall, bushy plants display long-lasting colour.
- Heat resistant and ideal for low-maintenance landscaping use.
- Also good in large patio containers.

**Red Hot Sally II**

**Height:** 10 to 12 in./25 to 30 cm  
**Spread:** 8 in./20 cm  
**Seed supplied as:** Raw  
**Plug crop time:** 4 to 5 weeks  
**Transplant to finish:** 4 to 5 weeks

Available in North America only.

- Stands out all season in landscapes, gardens, planters and mixed containers.
- Flower spikes are short and full for a dramatic show of colour.
- High seed quality, superior uniformity and excellent heat tolerance.

**Scarlet King** (Not pictured)

**Height:** 11 in./28 cm  
**Spread:** 8 in./20 cm  
**Seed supplied as:** Raw  
**Plug crop time:** 4 to 6 weeks  
**Transplant to finish:** 4 to 5 weeks

- Excellent bright colour at finish.

**Vista™ Series**

**Height:** 10 to 12 in./25 to 30 cm  
**Spread:** 8 in./20 cm  
**Seed supplied as:** Raw  
**Plug crop time:** 4 to 5 weeks  
**Transplant to finish:** 4 to 5 weeks

- Dense spikes and dark green foliage hold their colour all season.
- Well-matched in heat tolerance, habit and earliness.
- With a 5 to 7-day flowering window across the series in the greenhouse, Vista can finish 2 to 5 days after other commercial series depending on light conditions, but has better outdoor performance.

**PERENNIAL SALVIA**  
**New Dimension Series,** page 148.  
**Patio Series,** page 149.  
**Salvatore Blue,** page 148.

**SCABIOSA**  
See **Perennials,** page 149.



Vista Purple



Vista Red



Vista Salmon



Vista White



Vista Mixture



Snapshot Series



Burgundy



Orange



Pink



Purple



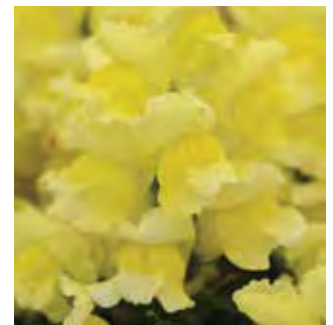
Red



Rose



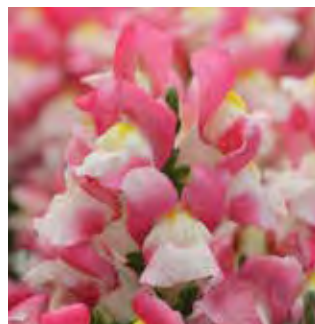
White



Yellow



Burgundy Bicolor



Coral Bicolor



Red Bicolor



Mixture

**SNAPDRAGON** ●  
*Antirrhinum majus*

DWARF GARDEN SNAPDRAGON

**Snapshot™ Series F1**

Height: 6 to 10 in./15 to 25 cm  
Spread: 10 to 12 in./25 to 30 cm

Seed supplied as: Raw

Plug crop time: 5 to 6 weeks  
Transplant to finish: 6 weeks

- Delivers a perfect balance of pack performance and landscape success.
- Bushy, compact plants are topped by closely spaced, full flower spikes.
- Uniform flowering, with a 7 to 10-day window for Spring and Autumn sales in packs and small pots.



**Rose Shades** *All-America Selections Winner*



**Mixture**

GARDEN/CUT FLOWER  
SNAPDRAGON

**Rocket Series F1**

**Height:** 30 to 36 in./76 to 91 cm

**Spread:** 16 to 18 in./41 to 46 cm

**Seed supplied as:** Raw

**Plug crop time:** 5 to 6 weeks

**Transplant to finish:**  
13 to 16 weeks

- Vigorous, heat-tolerant plants reach a uniform height and are topped by excellent-quality, closely set blooms.
- Flowers well under long days.
- Useful as both a home garden series and as a garden cut flower.
- Group 3-4 flowering snapdragon.

CUT FLOWER SNAPDRAGON

**Cool Series**, page 189.

**Early Potomac Series**,  
page 186.

**Maryland Series**, page 185.

**Monaco Series**, page 188.

**Potomac Series**, page 186.



**Bronze**

*All-America Selections Winner*



**Golden**

*All-America Selections Winner*



**Pink**



**Red**

*All-America Selections Winner*



**Rose Shades**

*All-America Selections Winner*



**White**

*All-America Selections Winner*



Hot Cakes Formula Mixture



Hot Cakes Hot Rose



Hot Cakes Purple



Vintage Mixture



Hot Cakes White

**STOCK** ●  
*Matthiola incana*

SELECTABLE BEDDING STOCK

**Hot Cakes Series**

**Height:** 10 to 16 in./25 to 41 cm  
**Spread:** 6 to 8 in./15 to 20 cm

**Seed supplied as:** Raw

**Plug crop time:** 4 weeks  
**Transplant to finish:** 5 to 7 weeks

- Easy-to-select, fully double plugs produce more attractive plants than comparable grey-leaf, non-selectable types that can show up to 50% singles.
- Very well-branched, dwarf plants with fragrant, bright blooms deliver outstanding performance in landscapes and garden beds.

BEDDING STOCK

**Vintage Mixture**

**Height:** 15 to 20 in./38 to 51 cm  
**Spread:** 12 to 14 in./30 to 36 cm

**Seed supplied as:** Raw

**Plug crop time:** 4 weeks  
**Transplant to finish:** 7 to 8 weeks

- Dwarf variety blooms up to 1 week faster, with better branching than comparable varieties.
- Non-selectable Vintage produces over 55% double flowers.
- Sturdy, well-branched plants are excellent outdoor performers.
- Prefers cool growing conditions; no vernalisation needed.

STIPA

See *ColorGrass*, page 52.

CUT FLOWER STOCK  
(MATTHIOLA)

**Column Stock**, page 180.

**Katz Series**, page 182.

**Katz Hi Double White**, page 182.

**Mathilda Series**, page 184.

SUNFLOWER

See *Potted Plants*, page 165.



Blue & White



Burgundy



Deep Blue



Lemon Drop



Magenta



White



Rose

**TORENIA**   
*Torenia fournieri*

**Kauai™ Series**

Height: 8 in./20 cm  
Spread: 8 in./20 cm

Seed supplied as: Pelleted

Plug crop time: 5 to 6 weeks  
Transplant to finish: 5 to 7 weeks

- Compact series offers the fullest complement of the most vivid colours.
- Easy to schedule with a tight, 7 to 9-day flowering window.
- Crop management is easier and more cost-effective with this compact torenia.
- Superior performance in extreme heat and humidity.
- Brings an exotic look to small gardens, mixed combos and colour bowls; also suited to indoor containers.
- Includes unique colours Lemon Drop and Magenta.



Mixture



Deep Blue



Quartz XP Bordeaux



Quartz XP Pink



Quartz Blue



Quartz XP Purple



Quartz XP Red with Eye



Quartz XP Scarlet



Quartz XP Silver



Quartz XP Violet with Eye



Quartz XP White



Quartz XP Merlot Mixture



Quartz XP Mixture

**VERBENA** ●  
*Verbena x hybrida*

**Quartz XP Series**

**Height:** 8 to 10 in./20 to 25 cm  
**Spread:** 10 to 12 in./25 to 30 cm

**Seed supplied as:** Raw, Primed

**Plug crop time:** 4 weeks

**Transplant to finish:**  
Spring 6 to 8 weeks,  
Summer 5 to 7 weeks

- Quartz XP verbenas are more uniform with overall longer garden performance than competing varieties.
- Delivers a tight, 7-day flowering window, earlier and significantly better branching, and reduced internode length.
- Strong seed quality, high germination and great young plant vigour assure superior performance in packs and 4-in./10-cm pots.
- Slightly spreading, mounded plants make brilliant beds and trail over the edges of mixed containers.

**XP Purple**  
Largest florets and slightly more vigour than others in the series.

**XP Merlot Mixture**  
Strong burgundy, red and purple shades.

**Quartz Blue**  
**Height:** 10 to 12 in./25 to 30 cm  
**Spread:** 12 to 14 in./30 to 36 cm

**Seed supplied as:** Raw, Primed

**Plug crop time:** 5 weeks

**Transplant to finish:**  
Spring 7 to 9 weeks,  
Summer 6 to 7 weeks

- Approximately 2 weeks later to flower than Quartz XP varieties.

**PERENNIAL VERBENA**  
**Buenos Aires**, page 149.  
**Santos Purple**, page 149.



**XP Burgundy Halo**

**VINCA** ●  
*Catharanthus roseus*

TRAILING VINCA

**Mediterranean XP Series**

**Height:** 4 to 6 in./10 to 15 cm  
**Spread:** 20 to 30 in./51 to 76 cm

**Seed supplied as:** Raw

**Plug crop time:** 5 weeks  
**Transplant to finish (basket):**  
Spring 12 to 14 weeks,  
Summer 8 to 10 weeks

- The only full series of trailing vinca offering a true red.
- Mediterranean XP varieties fill in fast with terrific coverage.
- XP varieties deliver a tight, 5 to 7-day flowering window; luxurious spreading habit; larger flowers and reliable germination.
- Low water needs.

**XP Burgundy Halo** Vibrant, deep burgundy with bright white eye.

**XP Dark Red** Same deep red as Pacifica XP Dark Red. Slightly more mounded habit than others in the series.

**XP Red** Same true red as Pacifica XP Really Red. Slightly more mounded habit than others in the series.

**XP Mixture** Includes all colours in the series except Burgundy Halo.



**XP Burgundy Halo**



**XP Dark Red** US PVP 200900043



**XP Hot Rose** US PVP 200900084



**XP Red** US PVP 200900081



**XP Mixture**



**XP Peach** US PVP 200900080



**XP Rose Halo**



**XP Strawberry** US PVP 200900083



**XP White** US PVP 200900053



Cranberry



Dark Red

**Big, bold and better branching vincas!**

Titan is up to 2 weeks faster to flower than open-pollinated vincas, with superior branching and big flowers in all the top-selling colours. The most uniform F1 vinca series on the market shows off flowers that are up to 50% larger than O.P. types in cooler temperatures.



Bubble Gum Mixture



Clear Mixture



Mixture



Summer Breeze Mixture

F1 UPRIGHT VINCA

**Titan™ Series F1**



**Height:** 14 to 16 in./36 to 41 cm  
**Spread:** 10 to 12 in./25 to 30 cm  
**Seed supplied as:** Raw  
**Plug crop time:** 5 weeks  
**Transplant to finish:** 3 to 4 weeks

- Upgrade your vinca for the best germination and the most reliable supply available on the market!
- More stress-tolerant due to hybrid vigour - tolerates heat and drought and can withstand cooler and wetter conditions compared to O.P. types.
- Perfect for landscapes and containers of all types.
- Well-suited to packs, 4-in./10-cm and 6-in./15-cm pots.

**Blush** Colour does not fade to white in heat and humidity, and flowers retain the large eye.

**Cranberry** Features a rich, velvety, dark red bloom colour with a lighter centre. Times with Really Red. Landscape height is on the tall side of the series at 16 in. (41 cm).

**Really Red** Same colour as Pacifica Really Red. A top-selling vinca colour and a key colour for landscapers.

**Bubble Gum Mixture**  
Blush, Icy Pink, Rose.

**Clear Mixture**  
Burgundy, Dark Red, Lilac, Punch, Pure White.

**Summer Breeze Mixture**  
Lavender Blue Halo, Lilac, Pure White.



**Apricot** US 10,212,908



**Blush**



**Burgundy**



**Cranberry** US 10,212,908



**Dark Red** US 10,212,908



**Icy Pink** US 10,212,908



**Lavender Blue Halo**



**Lilac**



**Polka Dot**



**Punch** US 10,212,908



**Pure White**



**Really Red** US 10,212,908



**Rose** US 10,212,908



**Rose Halo**



Mixture US 10,212,908

### Added security

Get the fast flowering, superior branching and big flowers of Titan™ Vinca, with the extra protection of aerial *Phytophthora* resistance in Titan-ium! With its tight flowering window and blooms in a full range of top-selling colours, Titan-ium will get your vinca program started earlier and stronger!

F1 UPRIGHT VINCA

### Titan-ium™ Series F1



**Height:** 14 to 16 in./36 to 41 cm  
**Spread:** 10 to 12 in./25 to 30 cm

**Seed supplied as:** Raw

**Plug crop time:** 5 weeks

**Transplant to finish:** 3 to 4 weeks

- Everything you love about Vinca Titan with added disease resistance to some strains of aerial *Phytophthora*.
- Features high resistance to some strains of aerial *Phytophthora* as proven by extensive bioassay analyses. It is not immune to the disease; therefore, in some scenarios, preventative measures are still recommended.
- The series has a 5-day flowering window, with some colours flowering earlier than the leading varieties by 10-14 days!

**Punch** The shade of Punch is a little more red than Titan Punch.

**White** White is the most vigorous of the series.

**Mixture**

Contains all the series colours.



Apricot, Really Red and Polka Dot



Apricot US 10,212,908



Blush US 10,212,908



Dark Red US 10,212,908



Polka Dot



Punch US 10,212,908



Really Red US 10,212,908



White US 10,212,908



**Mixture** US 9,451,748; US 9,451,749; US 9,451,751; US 9,451,752; US 11,684,031



**Apricot** US 11,684,031



**Burgundy** US 9,451,748



**Lilac** US 9,451,752



**Apricot and Burgundy**



**Magenta** US 11,559,016



**Orchid** US 9,451,750



**Punch** US 9,451,751



**Pure White**

F1 UPRIGHT VINCA

**Valiant™ Series F1**



**Height:** 14 to 20 in./36 to 51 cm  
**Spread:** 10 to 12 in./25 to 30 cm

**Seed supplied as:** Raw

**Plug crop time:** 5 weeks

**Transplant to finish:** 3 to 4 weeks

- The Valiant series is selected in Florida to have field resistance to aerial *Phytophthora*.
- Makes well-branched, market-ready plants with large flowers that show off high-impact colour at point-of-sale and in the landscape.
- Superior hybrid vigour allows Valiant vinca landscapes to better survive environmental stresses such as sun, heat, drought, salt and cool/damp conditions.
- Low maintenance with good landscape longevity.

**Orchid** Slightly less vigorous than others in the series.

**Mixture** Apricot, Burgundy, Lilac, Punch, Pure White.

## UPRIGHT VINCA

**Tattoo™ Series****Height:** 10 to 14 in./25 to 36 cm**Spread:** 6 to 8 in./15 to 20 cm**Seed supplied as:** Raw**Plug crop time:** 5 weeks**Transplant to finish:** 5 to 6 weeks

- Very floriferous and well-branched plants display one-of-a-kind flowers.
- Tight flowering window with an easy-to-grow, uniform, upright habit across all colours.
- Outstanding in hot and sunny conditions.
- Blooms display the best colour contrast under warm conditions with moderate light. Colours lighten with higher temperatures and light levels. Grown under cooler conditions and lower light, colours appear darker overall, with less contrast and more purple area.

**Black Cherry** Swirls of cherry and raspberry are lightly airbrushed with purple tones.

**Blueberry** A unique colour perfect for combining with other plants to create heat-loving red, white and blue mixes.

**Orange** Features a medium orange colour with a consistent dark centre. Petal colour lightens in high light and temperatures. Similar size and timing to Tattoo Black Cherry.

**Papaya** Beautiful, soft "orangesicle"-toned petals are marked with an inky, dark eye.

**Raspberry** Deep raspberry blooms mature to a soft rose colour, each accented with an inky, dark eye.

**Tangerine** Dark purple swirls airbrushed onto tangerine-colour blooms with a bright eye.

**American Pie Mixture** Includes Blueberry, plus two Pacifica XP varieties, Really Red and White.



**Black Cherry** US PVP 201800427  
Medal of Excellence Industry's Choice

### Designed to turn heads and grab sales

The art of plants comes alive on every Tattoo bloom - each petal looks like it is inked or airbrushed with soft brush strokes of dark purple. Adding these novelties to your lineup shows that you have your finger on the pulse of what today's gardener really wants: bold, fun, flashy appeal. Tattoo...without a doubt, the most unique vinca on the market today!



**Blueberry** US PVP 202100168



**Orange** US PVP 202200007



**Papaya** US PVP 201800424  
Medal of Excellence Industry's Choice



**Raspberry** US PVP 201800426  
Medal of Excellence Industry's Choice



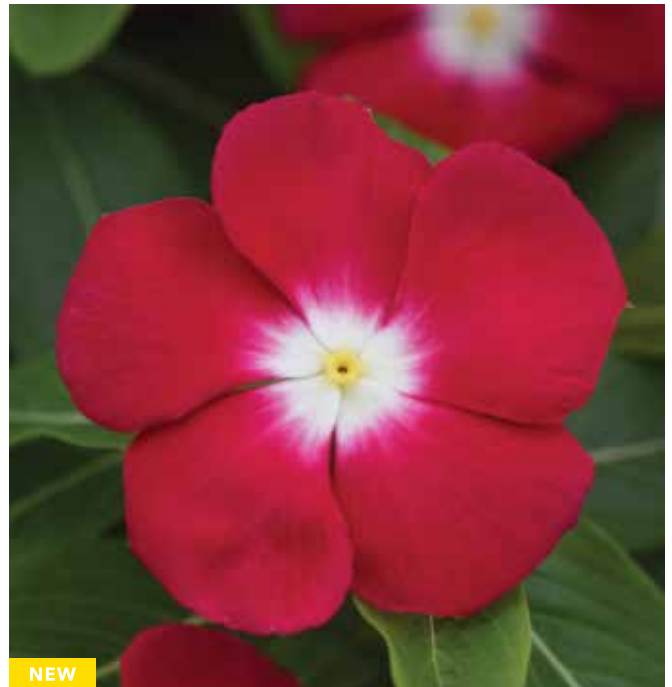
**Tangerine** US PVP 201800425  
Medal of Excellence Industry's Choice



**American Pie Mixture**  
US PVP 202100168; US PVP 200600190



**NEW**  
XP Pink



**NEW**  
XP Red Halo



XP Mixture



XP Bold Mixture

UPRIGHT VINCA

**Pacifica XP Series**



**Height:** 10 to 14 in./25 to 36 cm  
**Spread:** 6 to 8 in./15 to 20 cm

**Seed supplied as:** Raw

**Plug crop time:** 5 weeks

**Transplant to finish:** 5 to 6 weeks

- Tight, 5 to 7-day flowering window and uniform, upright habit across all colours.
- XP genetics assure precise, programmable, predictable growing.
- Outstanding in hot, dry and sunny conditions.
- Very floriferous and well-branched plants show off bright flowers with an overlapping, fully rounded form that won't show gaps in hot temperatures.

**NEW XP Pink** The series was missing this nice, true pink colour.

**NEW XP Red Halo** Features a vibrant red colour with a uniform halo pattern. Replaces Cherry Red Halo.

**XP Bold Mixture** Deep Orchid, Orange, Really Red.



**XP Apricot**



**XP Blush**



**XP Burgundy**



**XP Dark Red**  
US PVP 200600189



**XP Deep Orchid**



**XP Orange**



NEW

**XP Pink**



**XP Polka Dot**



**XP Punch**



**XP Really Red**  
US PVP 200600190



**XP White**



**XP Burgundy Halo**  
US PVP 200700272  
*All-America Selections Winner,  
Fleuroselect Novelty*



**XP Magenta Halo**  
US PVP 200500216



NEW

**XP Red Halo**



**XP Rose Halo**  
US PVP 200500218



NEW

XP Yellow Jump Up Improved

**Excellence in action!**

Grow, ship, sell and plant the best-looking violas for Spring and Autumn - Sorbet XP genetics deliver a uniform plant habit and the tightest bloom window, for excellent performance in landscapes and gardens.



XP Orange Jump Up

VIOLA   
*Viola cornuta*

**Sorbet® XP Series F1**



**Height:** 6 to 8 in./15 to 20 cm  
**Spread:** 6 to 8 in./15 to 20 cm  
**Flower size:** 1 to 1.5 in./3 to 4 cm

**Seed supplied as:** Raw, Primed

**Plug crop time:** 4.5 to 5 weeks

**Transplant to finish:** Early Spring 6 to 8 weeks, Autumn 4 to 5 weeks

- Sorbet XP needs fewer PGRs, with superior holdability and less shrink.
- F1 vigour assures greater germination, earliness, and excellent plug and garden performance.
- Violas are a key pro landscaper item and Sorbet XP excels at every turn: plants cover the soil at flowering, with more blooms on every plant and less stretching; they stay compact in both heat and cold; excellent for overwintering; the wide range of clear colours allows for custom mixes.
- Well suited to Spring and Autumn packs and 3.5-in./9-cm pots.

**XP Deep Orange** Deepest orange-flowered viola on the market; uniform, controlled plants for ease of production. Superior to competing varieties in colour, timing, uniformity.

**XP Delft Blue**  
Blue and white bicolor.

**XP Morpho**  
Bicolor pattern changes with environment; more blue under cool Spring conditions.

**XP Neptune**  
Beautiful cream with blue picotee.

**XP Pink Wing**  
Highly sought-after pink cap/white face colour pattern.

**XP Raspberry** Rose-pink and white shades.

**XP Red** Excellent red colour with staying power; times on the late side of the series.

**XP Rose Blotch** Rose with a defined blotch. Times on the early side of the series.

**XP True Blue** Best true blue *V. cornuta*. Less stretch, better plant structure and truer blue colour than competing varieties.

**XP White Blotch**  
Times on the early side of the series.

**XP Yellow Burgundy Jump Up**  
Yellow face with burgundy cap.

**NEW XP Yellow Jump Up Improved** Offers better branching and a more compact habit with less side flowering. The improved flower form features less curving of the petals, and the cap colour is a little more violet.

**XP Yellow Pink Jump Up**  
Lavender-pink cap fades with age and heat or PGR stress, similar to other pink cap types.

**XP YTT** Opens white, then changes to azure blue.

**XP Autumn Select Mixture**  
Bold seasonal colours selected for optimal timing and habit uniformity in Autumn.

**XP Blueberry Sundae Mixture**  
XP True Blue, XP Delft Blue, XP White.

**XP Citrus Mixture**  
XP Deep Orange, XP Yellow, XP White.

**XP Harvest Mixture**  
XP Deep Orange, XP Purple, XP Yellow.

**XP Jump Up Mixture**  
XP Denim Jump Up, XP Lemon Jump Up, XP Orange Jump Up, XP White Jump Up, XP Yellow Jump Up.

**XP Spring Select Mixture**  
Selected for optimal timing and habit uniformity in Spring.



XP Deep Orange



XP Purple



XP Red



XP True Blue



XP White



XP Yellow



XP Blue Blotch



XP Lemon Ice Blotch



XP Rose Blotch



XP White Blotch



XP Yellow Blotch



XP Denim Jump Up



XP Lemon Jump Up



XP Orange Jump Up



XP White Jump Up



XP Yellow Burgundy Jump Up



NEW

XP Yellow Jump Up Improved



XP Yellow Pink Jump Up



XP Beaconsfield



XP Delft Blue  
*Fleuroselect Gold Medal*



XP Marina



XP Neptune



XP Pink Halo



XP Pink Wing



XP Purple Face



XP Raspberry



XP YTT



XP Morpho



XP Autumn Select Mixture



XP Blueberry Sundae Mixture



XP Citrus Mixture



XP Spring Select Mixture



XP Harvest Mixture



XP Jump Up Mixture



XP Mixture



XP Rose Blotch



XP Delft Blue



Yellow Beacon



Tiger Eye

VIOLA continued

**Sorbet® Series F1**

**Height:** 6 to 8 in./15 to 20 cm  
**Spread:** 6 to 8 in./15 to 20 cm  
**Flower size:** 1 to 1.5 in./3 to 4 cm  
**Seed supplied as:** Raw, Primed  
**Plug crop time:** 4.5 to 5 weeks  
**Transplant to finish:**  
 Early Spring 6 to 9 weeks,  
 Autumn 4 to 6 weeks

- Plants cover the soil at flowering with more blooms and less stretching, and fewer PGRs are needed.
- Superior holdability and less shrink.
- Use in Autumn and Spring programs - the novelty colours have good retail and home garden appeal.

**Fire** Colour pattern varies by environment.

**Honeybee** Yellow/copper-orange bicolor; bright and sunny for Spring production. 30% more vigorous and longer peduncles than other Sorbet varieties.

**Tiger Eye** Unusual striped pattern is excellent for Fall sales. Habit and timing match Sorbet XP.

**Yellow Beacon** Abundant flowers in a cheerful yellow with a white cap. The colour shades may vary slightly depending on environmental conditions.



Black Delight



Carmine Rose



Fire



Honeybee



Icy Blue



Midnight Glow



Orchid Rose Beacon



Tiger Eye



Yellow Blue Jump Up



Yellow Beacon



Raspberry Lemonade Mixture



Bonfire Mixture

**ZINNIA** ●  
*Zinnia marylandica*

**Zahara® Series**



**Height:** 12 to 18 in./30 to 46 cm  
**Spread:** 12 to 18 in./30 to 46 cm

**Seed supplied as:** Raw, Coated

**Plug crop time:** 3 weeks  
**Transplant to finish:** Spring 8 to 9 weeks, Summer 5 to 6 weeks

- 20% larger flowers than competing varieties means more colour on the bench than any other disease-resistant zinnia...more retail impact...flower power that lasts in the landscape.
- Less care needed at retail for faster turns, less dump and better sell-through.
- Outstanding performer in heat, drought.

**Fire** Bright orange-red hue intensifies outdoors.

**Raspberry** Matches Fire for habit.

**Red** One of the largest flowers in the series. Colour varies by environment.

**Starlight Rose** Colour pattern varies by environment; best colour from high light, good fertilisation and cool nights.

**Bonfire Mixture** Red, Fire, Yellow.

**Raspberry Lemonade Mixture** Raspberry, Yellow, Starlight Rose.



Mixture



**Cherry** US PVP 201600029



**Fire** US PVP 201000090



**Raspberry** US PVP 201500215



**Red** US PVP 201600030



**Starlight Rose** All-America Selections Winner, Fleuroselect Novelty



**Sunburst** Fleuroselect Gold Medal, Fleuroselect Novelty



**White** US PVP 201400297



**Yellow** US PVP 201500214



**Bonfire Mixture**



**Raspberry Lemonade Mixture**



**Fire** US PVP 201600032 All-America Selections Winner, Fleuroselect Gold Medal, Fleuroselect Novelty



**Bright Orange** Fleuroselect Novelty



**Cherry** US PVP 201600027 Fleuroselect Novelty, All-America Selections Winner



**Fire** US PVP 201600032 All-America Selections Winner, Fleuroselect Gold Medal, Fleuroselect Novelty



**Raspberry Ripple** US PVP 201800173



**Salmon** US PVP 201900097



**White** Fleuroselect Novelty



**Yellow** US PVP 202000360



**Brilliant Mixture**

ZINNIA continued

**Double Zahara™ Series**



**Height:** 16 to 20 in./41 to 51 cm  
**Spread:** 16 to 20 in./41 to 51 cm

**Seed supplied as:** Raw, Coated

**Plug crop time:** 3 weeks

**Transplant to finish:**

Spring 8 to 9 weeks,

Summer 5 to 6 weeks

- Fully double, disease-resistant zinnia series makes a huge colour show!
- Award-winning, all-season performance and durability in landscapes and containers, especially in sunny, hot and dry conditions.
- Intermediate size is perfect for mid-level plantings in the landscape. Works well in containers, too.

**Bright Orange** Intense bright orange colour on highly double flowers. Very floriferous, with slightly smaller flowers than others in the series.

**Cherry** Slightly less double than others in the series.

**Raspberry Ripple** Colour can vary under different environmental conditions. Cooler temperatures accentuate the rose; as flowers age and under more heat, the white comes out more.

**Salmon** Holds its colour under hot conditions, while others in this colour class start to wash out.

**White** Outstanding white has larger and more double flowers than the competition. Up to 2% of plants can show pink blushing in the flowers.

**Yellow** Same colour as Zahara Yellow, but appears more vibrant due to double shape and high petal count.

**Brilliant Mixture** Yellow, Cherry, Fire.

**Mixture** Cherry, Salmon, Yellow, Fire, White.



Mixture



**Cherry** US PVP 201600027 *Fleuroselect Novelty, All-America Selections Winner* and **Fire** US PVP 201600032 *All-America Selections Winner, Fleuroselect Gold Medal, Fleuroselect Novelty*



**NEW**  
Elegant Hot Mixture

**ZINNIA** ●  
*Zinnia elegans*  
(syn. *Zinnia violaceae*)

**NEW Elegant™ Series**

**Height:** 16 to 22 in./41 to 56 cm  
**Spread:** 16 to 22 in./41 to 56 cm  
**Flower size:** 3 to 5 in./8 to 13 cm

**Seed supplied as:** Coated

**Plug crop time:** 3 to 4 weeks  
**Transplant to finish:** 6 to 7 weeks

- Premade colour mix blends harmoniously.
- Fully double flowers are always garden favourites.
- Can fill containers or be planted in beds en masse.
- Pollinator friendly, great choice for children's gardens!

**NEW Hot Mixture**

Features an eye-catching blend of warm colours. Pink, Orange, Scarlet and Rose mix beautifully, whether in containers or large plantings. Compact plants are well-matched in size and timing.

**Zesty™ Series**

**Height:** 18 to 24 in./46 to 61 cm  
**Spread:** 18 to 24 in./46 to 61 cm  
**Flower size:** 3 to 5 in./8 to 13 cm

**Seed supplied as:** Coated

**Plug crop time:** 3 to 4 weeks  
**Transplant to finish:** 6 to 7 weeks

- Extraordinary garden appeal!
- Features fully double flowers and excellent garden vigour.
- Displays huge, vibrant colours all season long.
- Impressive in containers, mixed combinations and borders.
- Pollinators love this plant!

**Pink** A darker pink shade with more purple/rose tones than the competition.

**Purple** Stunning and unique deep purple colour.

**Scarlet** The most compact variety in the series.

**White** A true white colour.

**Yellow** In the middle of the series for height. Can be less double than the rest of the colours in low light conditions.

**Mixture** Includes all the colours of the series.



Zesty Mixture



Fuchsia



Orange



Pink



Purple



Scarlet



White



Yellow



Mixture



Orange



Yellow

# PERENNIALS





**Cor de Jong** (Product Manager Perennials) and  
**Martijn Baijens** (Plant Breeder)



Red Yellow



Blue White



Purple Blue



Purple White



Purple Yellow



Mixture



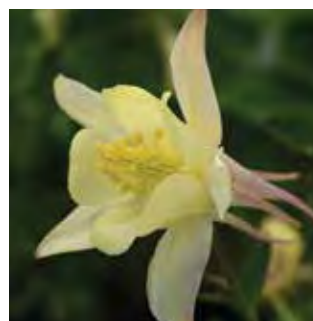
Red White



Red Yellow



White



Yellow

**AQUILEGIA**   
*Aquilegia x hybrida*

**Earlybird™ Series F1**

**Height:** 9 to 11 in./23 to 28 cm  
**Spread:** 8 to 10 in./20 to 25 cm  
**Flower size:** 2 to 3 in./5 to 8 cm

**USDA Hardiness Zones:**  
3a to 9b (-40 to 25°F/-40 to -4°C  
minimum temperatures)

**A First-Year-Flowering Perennial.**

**Seed supplied as:** Raw

**Plug crop time:** 6 to 9 weeks

**Transplant to finish:**

12 to 16 weeks  
(20 to 30 weeks overwintered)

- Strong colours and colour combinations spark new interest in Aquilegia!
- Series has a low cold requirement and short juvenility for growing in warm Winter climates.
- Features a controlled habit, with relatively short stems on well-mounded plants.
- A flowering window of 10 to 12 days, plus a short harvest window, make it an excellent choice for early-Spring programs.
- Purple White, Purple Yellow and Red Yellow are unique colours in F1 Aquilegia.

**Blue White** Features a slightly more slender plant habit compared to the rest of the series.

**Purple White** Flowers 2 to 3 days earlier than the rest of the series.

**Purple Yellow** Flowers 5 to 7 days later than the series average, and is 2 in. (5 cm) taller.



Winky Double Red-White



Winky Double Rose-White

**AQUILEGIA (COLUMBINE)** 🌱  
*Aquilegia vulgaris*

**Winky Double Series**

**Height:** 12 to 14 in./30 to 36 cm  
**Spread:** 12 to 14 in./30 to 36 cm

**USDA Hardiness Zones:**  
3a to 8b (-40 to 15°F/-40 to -9°C minimum temperatures)

**Seed supplied as:** Raw

**Plug crop time:** 7 to 8 weeks  
**Transplant to finish:**  
26 to 40 weeks

- Unique double, upward-facing flowers in one-of-a-kind colour patterns offer “something different” for big retail appeal.
- Excellent uniformity during culture and harvest.
- Full and vigorous habit.
- Long shelf life.
- Versatile uses.

**BELLIS** 🌱  
*Bellis perennis*

**Bellissima™ Series**

**Height:** 6 to 10 in./15 to 25 cm  
**Spread:** 5 to 8 in./13 to 20 cm

**USDA Hardiness Zones:**  
4a to 7b (-30 to 5°F/-34 to -15°C minimum temperatures)

**A First-Year-Flowering Perennial.**

**Seed supplied as:** Pelleted

**Plug crop time:** 5 weeks  
**Transplant to finish:** 8 to 14 weeks

- Robust, early-blooming plants are strong landscape performers in cool climates.
- Needs no vernalisation to flower.
- Displays an abundance of large, fully double flowers.

**CAMPANULA** 🌱🌱  
*Campanula carpatica*

**Rapido Series F1**

**Height:** 5 to 7 in./13 to 18 cm  
**Spread:** 5 to 8 in./13 to 20 cm

**USDA Hardiness Zones:**  
3a to 9b (-40 to 25°F/-40 to -4°C minimum temperatures)

**A First-Year-Flowering Perennial.**

**Seed supplied as:** Pelleted

**Plug crop time:** 7 to 10 weeks  
**Transplant to finish:** 9 to 12 weeks

- Earliest *C. carpatica* - up to 4 weeks earlier than other varieties.
- Delivers good young plant and finished plant vigour, while maintaining compact habit.
- Very short harvest window.
- Showy Spring perennial is ideal for high-volume bench run potted plant programs for 4-in./10-cm pots or gallons.
- Versatile - suited to patio planters and gardens, as well as an indoor novelty potted plant.

**CAMPANULA**  
Also see **Potted Plants**, page 153 and **Cut Flowers**, page 169.



Bellissima Mixture Bellis



Bellissima Red Bellis



Bellissima Rose Bellis



Bellissima White Bellis



Rapido Blue Campanula



Rapido White Campanula



### The first Coreopsis on the shelf!

There's early...and then there's Double the Sun! This bright variety is 2 to 3 weeks earlier than our Early Sunrise and other comparable varieties. In Summer, it finishes 1 to 2 weeks before the rest. This favourite perennial class can be on store shelves before any other compact, semi-double yellow Coreopsis.



**Double the Sun** Fleuroselect Novelty



**Early Sunrise** All-America Selections Winner, Fleuroselect Gold Medal



**Sunfire**



**SunKiss** US PVP 201700014, EU PBR 46544

## COREOPSIS *Coreopsis grandiflora*

### Double the Sun

**Height:** 12 to 14 in./30 to 36 cm  
**Spread:** 12 to 14 in./30 to 36 cm  
**Flower size:** 2 to 3 in./5 to 8 cm

**USDA Hardiness Zones:**  
4a to 9b (-30 to 25°F/-34 to -4°C minimum temperatures)

**A First-Year-Flowering Perennial.**

**Seed supplied as:** Primed

**Plug crop time:** 5 to 7 weeks  
**Transplant to finish:** 9 to 10 weeks

- Semi-double, clear golden yellow flowers are the same large, 2.5-in./6-cm size as SunKiss and Early Sunrise, and bigger than Sunfire.
- Great controlled habit with strong flowering.
- Ideal for quart and 1-gallon production in Spring and Summer with 13-hour critical daylength.

### Early Sunrise

**Height:** 24 in./61 cm  
**Spread:** 22 to 24 in./56 to 61 cm

**USDA Hardiness Zones:**  
4a to 9b (-30 to 25°F/-34 to -4°C minimum temperatures)

**A First-Year-Flowering Perennial.**

**Seed supplied as:** Primed

**Plug crop time:** 5 to 7 weeks  
**Transplant to finish:**  
11 to 13 weeks

- Our most vigorous Coreopsis.
- Produces golden-yellow, semi-double flowers continuously all Summer.
- Can also be marketed as an annual in premium packs.
- For 2-gallon and larger containers in Summer, Early Sunrise is the optimal choice.

### Sunfire

**Height:** 24 in./61 cm  
**Spread:** 22 to 24 in./56 to 61 cm

**USDA Hardiness Zones:**  
4a to 9b (-30 to 25°F/-34 to -4°C minimum temperatures)

**A First-Year-Flowering Perennial.**

**Seed supplied as:** Primed

**Plug crop time:** 5 to 7 weeks  
**Transplant to finish:**  
10 to 12 weeks

- Naturally compact in a pack or 4-in./10-cm pot, requiring less PGRs, or no PGRs in certain conditions.
- Can also be marketed as an annual in premium packs.
- Golden yellow flower with deep red blotch.

### SunKiss

**Height:** 12 to 14 in./30 to 36 cm  
**Spread:** 14 to 16 in./36 to 41 cm

**USDA Hardiness Zones:**  
4a to 9b (-30 to 25°F/-34 to -4°C minimum temperatures)

**A First-Year-Flowering Perennial.**

**Seed supplied as:** Primed

**Plug crop time:** 5 to 7 weeks  
**Transplant to finish:** 9 to 10 weeks

- A colour breakthrough in seed *C. grandiflora*: SunKiss is the brightest yellow with large blotch available.
- Larger, deep red blotch and larger flowers than Sunfire.
- Controlled habit - fewer PGRs needed, or no PGRs in certain conditions.
- Well-branched and floriferous.
- Excellent heat-tolerant plant for novice and expert gardeners alike - reliable, easy to grow and the colour blends well with almost everything.

**DELPHINIUM** ●

*Delphinium elatum*

**Guardian Series F1**

**Height:** 30 to 39 in./76 to 99 cm  
**Spread:** 10 to 12 in./25 to 30 cm

**USDA Hardiness Zones:**  
 4a to 7b (-30 to 5°F/-34 to -15°C minimum temperatures)

**A First-Year-Flowering Perennial.**

**Seed supplied as:** Raw

**Plug crop time:** 6 to 7 weeks  
**Transplant to finish:** 16 weeks

- Very uniform blooming within each variety, especially under short days.
- Works well as a tall landscape/perennial variety, as a commercial cut flower, and in potted plant programs.
- Up to 6 weeks faster from transplant to bloom than O.P. types for more turns per sq. ft./sq. m of greenhouse space.
- As a greenhouse cut flower, Guardian can be grown under the same conditions as dianthus and snapdragons.
- Produces excellent stem quality for good cut flower shipability.

**Dasante Blue F1**

**Height:** 28 to 34 in./71 to 86 cm  
**Spread:** 10 to 12 in./25 to 30 cm

**USDA Hardiness Zones:**  
 4a to 7b (-30 to 5°F/-34 to -15°C minimum temperatures)

**A First-Year-Flowering Perennial.**

**Seed supplied as:** Raw

**Plug crop time:** 6 to 7 weeks  
**Transplant to finish:** 11 to 13 weeks

- Dasante Blue shows off vibrant true blue flowers with light purple accents and white bees.
- The grower-friendly, uniform plants are more compact, more responsive to PGRs and naturally earlier than other *D. elatum* types.
- Easy-care, cool-season crop can be grown with little or no heat for energy savings.
- Plants ship well, with more plants per rack in flower than any other delphinium for tremendous retail impact.
- Best for gallons with 3 plants per pot.
- Suitable for greenhouse, field or garden cut flower production.

**DELPHINIUM** ●

*Delphinium grandiflorum*

**Diamonds Blue F1**

**Height:** 16 to 24 in./41 to 61 cm  
**Spread:** 10 to 12 in./25 to 30 cm

**USDA Hardiness Zones:**  
 4a to 9b (-30 to 25°F/-34 to -4°C minimum temperatures)

**A First-Year-Flowering Perennial.**

**Seed supplied as:** Raw

**Plug crop time:** 6 to 7 weeks  
**Transplant to finish:** 10 to 12 weeks

- The first F1 spurless Delphinium from seed, Diamonds Blue eliminates the need for tissue culture inputs and is supplied with up to 25% higher germination than O.P. types for more efficient young plant production.

**DELPHINIUM** ●

*Delphinium x belladonna*

**Blue Donna**

**Height:** 32 to 40 in./81 to 102 cm  
**Spread:** 8 to 10 in./20 to 25 cm

**USDA Hardiness Zones:**  
 5a to 9b (-20 to 25°F/-29 to -4°C minimum temperatures)

**A First-Year-Flowering Perennial.**

**Seed supplied as:** Raw

**Plug crop time:** 5 to 6 weeks  
**Transplant to finish:** 12 to 16 weeks

- True blue Delphinium has improved uniformity and colour, increased productivity and more stems per sq. ft./sq. m.

**DELPHINIUM**

Also see Cut Flowers.



Guardian Blue



Guardian Lavender



Guardian White



Guardian Mixture



Dasante Blue



Diamonds Blue



Blue Donna



Peach

**Bright display drives early sales**  
 Be fast to market with this attractive *Digitalis* in an exciting array of colours customers will love! Dalmatian offers uniformity, a full habit and early flowering, making it an ideal premium end cap product in larger containers. Get the series that's easier for shoppers to spot!



Crème



Rose



Purple Fleuroselect Novelty



Mixture



White

**DIGITALIS** ●  
*Digitalis purpurea*

**Dalmatian Series F1**

**Height:** 16 to 20 in./41 to 51 cm  
**Spread:** 12 to 14 in./30 to 36 cm

**USDA Hardiness Zones:**  
 5a to 9b (-20 to 25°F/-29 to -4°C minimum temperatures)

**A First-Year-Flowering Perennial.**

**Seed supplied as:** Pelleted

**Plug crop time:** 5 to 6 weeks  
**Transplant to finish:**  
 10 to 14 weeks

- Uniform in height and early flowering.
- Well-branched with excellent habit and compact foliage.
- Striking colours on good-quality spikes.
- Suitable for 1 and 2 gallons and up.
- Premium end cap product.



Rockin' Series

**DIANTHUS** 

*Dianthus x barbatus interspecific*

**Rockin'™ Series F1**

**Height:** 18 to 24 in./46 to 61 cm  
**Spread:** 10 to 12 in./25 to 30 cm  
**Flower size:** 1 to 1.5 in./3 to 4 cm

**USDA Hardiness Zones:**  
 5a to 8b (-20 to 15°F/-29 to -9°C minimum temperatures)

**A First-Year-Flowering Perennial.**

**Seed supplied as:** Pelleted

**Plug crop time:** 4 to 6 weeks  
**Transplant to finish:** 8 to 9 weeks

- The Rockin' series opens the door to premium product sales in perennial quart and gallon programs for mid-Spring and the Autumn decorating season.
- Lacy, slightly scented flowers top full and long-lasting plants - this one delivers *lots of plant for the money*, and that's sure to satisfy shoppers.
- Reliably overwinters to USDA Zone 5 (-20°F/-29°C minimum temperatures) to assure multi-year performance.
- The best colour intensity occurs in the high light and cool temperatures of outdoor production.

**Pink Magic** Blooms open white and mature to light pink, then deep pink.

**ANNUAL DIANTHUS**

See page 44.

**CUT FLOWER DIANTHUS**

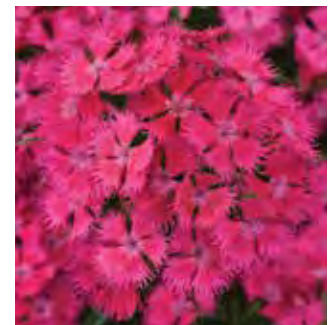
See page 174.



Pink Magic



Purple

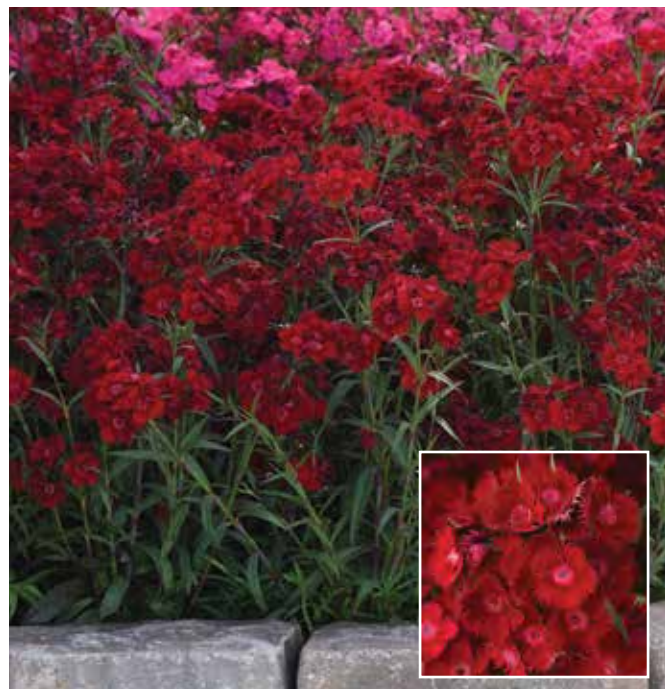


Rose



**Rockin' the garden!**

This dynamite series rocks perennial borders year after year, thanks to vivid colour, durable performance and count-on-it overwintering!



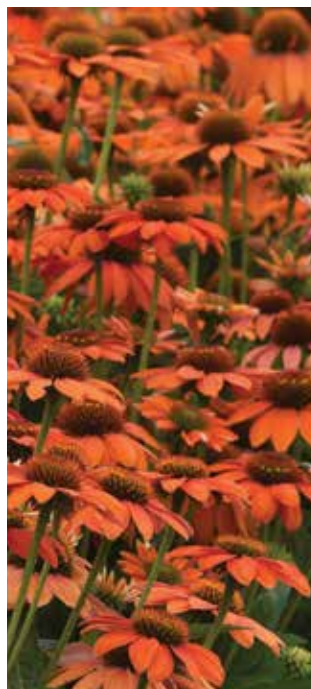
Red



**Red Ombre** US 7,982,110 *Medal of Excellence Industry's Choice*



**Yellow Ombre** US 7,982,110  
*All-America Selections Winner, Medal of Excellence Industry's Choice*



**Soft Orange** US 7,982,110  
*Medal of Excellence Industry's Choice*

**Ship more blooming plants with Artisan!**

The Artisan Collection elevates seed Echinacea to offer consistent plant structure and flowering, so all plants are uniform and ready to sell at the same time. Plus, the flexibility of seed means it fits better into your production schedule.

**ECHINACEA** ●  
*Echinacea x hybrida*

**Artisan™ Collection F1**



**Height:** 24 to 34 in./61 to 86 cm  
**Spread:** 10 to 25 in./25 to 64 cm  
**Flower size:** 3 to 4 in./8 to 10 cm

**USDA Hardiness Zones:**  
4a to 10b (-30 to 35°F/-34 to 2°C minimum temperatures)

**A First-Year-Flowering Perennial.**

**Seed supplied as:** Amplified

**Plug crop time:** 5 to 6 weeks  
**Transplant to finish:**  
13 to 17 weeks

- The first F1 hybrid Echinacea individual colour collection from seed!
- Offers consistency of plant structure for a uniform, highly branched, full plant.
- Features uniform flowering, so all plants are ready to sell at the same time.
- Seed input provides flexibility for production and labour management.
- Amplified seed form is enhanced through a proprietary process, resulting in faster and more uniform germination compared to non-enhanced seed.

**Red Ombre**

Flowers open red and soften in colour as they mature.

**Soft Orange** Flowers open deep orange and soften as they mature.

**Yellow Ombre** Features the same excellent branching as Red Ombre and Soft Orange, with a more upright habit and the foliage is a lighter mid-green. About 2 to 4 in. (5 to 10 cm) taller than the rest of the collection, and a small percentage of the plants are 6 to 8 in. (15 to 20 cm) taller, with the same plant habit and an intense golden yellow colour. *All-America Selections Regional Award Winner, Southeast and West/Northwest!*

**More colours! More flowers! More sales!**

Award-winning Cheyenne Spirit is the more economical way to bring high-demand colours to market, compared to traditional tissue-culture material. This incredibly vibrant segregating mix delivers maximum flower power at retail and shines all season long in landscapes.

**ECHINACEA**   
*Echinacea purpurea*

**Cheyenne Spirit**

**Height:** 18 to 24 in./46 to 61 cm first year; 22 to 30 in./56 to 76 cm second year

**Spread:** 10 to 16 in./25 to 41 cm first year; 14 to 20 in./36 to 51 cm second year

**USDA Hardiness Zones:** 4a to 10b (-30 to 35°F/-34 to 2°C minimum temperatures)

**A First-Year-Flowering Perennial.**

**Seed supplied as:** Raw

**Plug crop time:** 5 to 6 weeks  
**Transplant to finish:** 13 to 17 weeks

- Plants are shorter, better branched and fuller than many tissue-culture varieties. This makes it possible to grow without PGRs and offers the ability to ship on tightly spaced racks.
- Flexible scheduling is possible to meet a range of market dates.
- Fits a broad range of sizes from premium packs to gallons. Packs are suitable for in-colour or green plant sales for landscape or prairie-to-go uses.
- Broad and consistent palette includes shades of red, orange, purple, scarlet, cream, yellow and white.
- Long retail shelf life, heat and drought tolerance, and excellent Winter hardiness.

**PowWow® Series**

**Height:** 16 to 20 in./40 to 50 cm first year; 22 to 24 in./56 to 61 cm second year

**Spread:** 12 to 16 in./30 to 41 cm

**USDA Hardiness Zones:** 4a to 10b (-30 to 35°F/-34 to 2°C minimum temperatures)

**A First-Year-Flowering Perennial.**

**Seed supplied as:** Raw

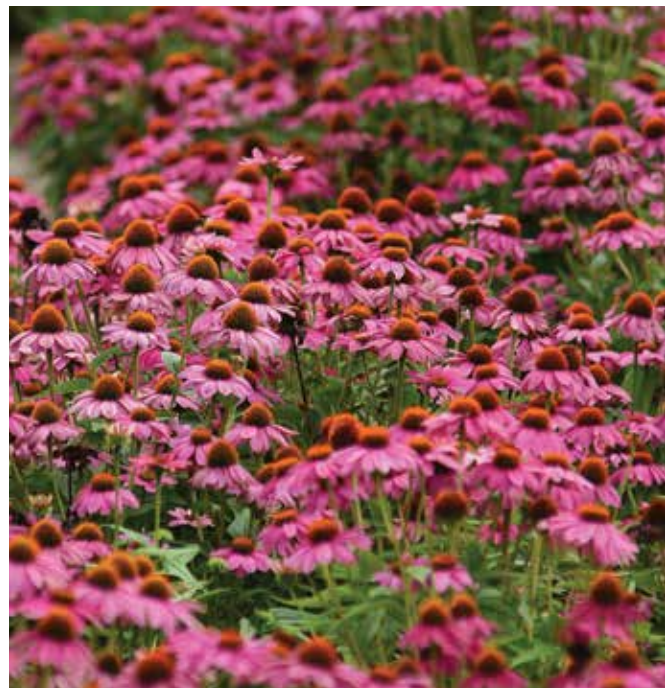
**Plug crop time:** 5 to 6 weeks  
**Transplant to finish:** 13 to 17 weeks

- PowWow puts more flowers on every plant than any other seed Echinacea, for a terrific, non-fading colour show!
- Colour-packed pair is well-matched for habit and timing.
- Fuller, shorter and better branched than many tissue culture Echinacea - can be grown without growth regulators and shipped tight on racks.
- Programmable to meet market dates.
- Versatile series works well from gallon containers to premium packs.
- Packs are suitable for landscaper in-colour or green plant sales, and for prairie-to-go programs.
- Very drought-tolerant, easy-care plants stay tidy at retail with long holdability.

**Wild Berry** Unique intense rose flowers with dark rose centre. Produces up to 2% taller plants.



**Cheyenne Spirit** US 7,982,110 All-America Selections Winner, Fleuroselect Gold Medal, Medal of Excellence Best Performing Variety



**PowWow Wild Berry** US 7,982,110; EU PBR 35233 All-America Selections Winner



**PowWow White**



Red

**GAILLARDIA** ●

*Gaillardia x grandiflora, Gaillardia aristata x Gaillardia pulchella*

**Mesa™ Series F1**

**Height:** 14 to 16 in./36 to 41 cm  
**Spread:** 20 to 22 in./51 to 56 cm

**USDA Hardiness Zones:**  
 5a to 10b (-20 to 35°F/-29 to 2°C minimum temperatures)

**A First-Year-Flowering Perennial.**

**Seed supplied as:** Raw

**Plug crop time:** 5 to 6 weeks

**Transplant to finish:**  
 11 to 13 weeks

- The first F1 Gaillardia from seed puts out lots of fast colour on sturdy plants.
- Strong, early-flowering, well-branched plants fill quart and gallon containers quickly while maintaining the controlled height.
- Compared with other seed Gaillardia, Mesa varieties are more uniform in habit and flowering time, for easier scheduling and shipping.
- Very drought tolerant once established, with intense, non-fading colour all season.
- Upright, well-balanced plants perform well in landscapes and mixed containers.

**Red** Surpasses the competition in several areas: more consistent, redder colour; more uniform vigour/habit; 1 week earlier flowering. Flowers uniformly at 10 hours. Within the series, in Spring production, Red is 14 to 20 days earlier to flower than Bright Bicolor and Yellow. In Summer production, it is 1 week earlier than Bright Bicolor and 14 to 20 days earlier than Yellow.



Bright Bicolor



Peach



Yellow All-America Selections Winner, Fleuroselect Gold Medal

**Fast, non-fading colour that won't quit**

The first seed F1 Gaillardia fills quart and gallon containers quickly with bold, brilliant colour. These plants hold up under dry conditions, and they put out intense, non-fading colour all season long. Create more colourful landscapes and mixed containers with Mesa.



**Melting Fire Heuchera** EU PBR 20557 Fleuroselect Novelty

**GAURA**   
*Gaura lindheimeri*

**HEUCHERA**   
*Heuchera micrantha*

**Sparkle White**



**Height:** 12 to 24 in./30 to 61 cm  
**Spread:** 12 to 20 in./30 to 51 cm

**USDA Hardiness Zones:**  
5b to 9a (-15 to 20°F/-26 to -7°C minimum temperatures)

**A First-Year-Flowering Perennial.**

**Seed supplied as:** Raw

**Plug crop time:** 5 weeks

**Transplant to finish:** 7 to 8 weeks

- Early, naturally compact and long-flowering variety is easy to grow, with no pinching necessary.
- Significant timing improvements over older seed Gaura genetics - 2 to 3 weeks faster. At 12 to 13-week crop time, it compares with vegetative varieties.
- Can be finished in 4 to 6-in./10 to 15-cm pots to save labour and bench time.
- Durable, drought-tolerant variety is compact enough for containers and floriferous enough to use as a bedding plant.

**Palace Purple**

**Foliage height:** 10 in./25 cm  
**Flower height:** 20 in./51 cm  
**Spread:** 14 to 16 in./36 to 41 cm

**USDA Hardiness Zones:**  
4a to 8b (-30 to 15°F/-34 to -9°C minimum temperatures)

**A First-Year-Flowering Perennial.**

**Seed supplied as:** Pelleted

**Plug crop time:** 6 to 8 weeks

**Transplant to finish:**  
10 to 12 weeks

- Compact variety has highly attractive foliage of strong bronze-purple, with small white flowers appearing later.

**HEUCHERA**   
*Heuchera x hybrida*

**Melting Fire**

**Foliage height:** 8 in./20 cm  
**Flower height:** 18 in./46 cm  
**Spread:** 12 to 14 in./30 to 36 cm

**USDA Hardiness Zones:**  
4a to 8b (-30 to 15°F/-34 to -9°C minimum temperatures)

**Seed supplied as:** Pelleted

**Plug crop time:** 8 to 10 weeks

**Transplant to finish:**  
12 to 16 weeks

- The only seed strain to deliver a strong-coloured, red-purple, curled-leaf Heuchera.
- Seedlings germinate over a longer period, and deliver the same quality plants.
- Strong garden performer has good weather tolerance.
- Excellent quality plants.
- True tissue culture alternative.



**Sparkle White Gaura** All-America Selections Winner, Fleuroselect Gold Medal



**Palace Purple Heuchera**



Luna Pink Swirl Hibiscus, Luna Rose Hibiscus



Luna Mixture Hibiscus



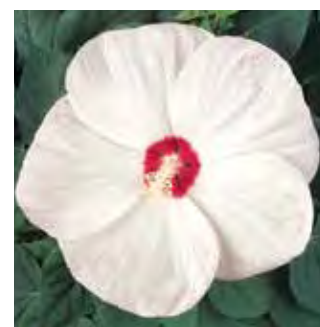
Luna Pink Swirl Hibiscus



Luna Red Hibiscus



Luna Rose Hibiscus



Luna White Hibiscus



Whiteout Iberis Fleuroselect Novelty

**HIBISCUS** ●  
*Hibiscus moscheutos*

**Luna™ Series F1**

**Height:** 24 to 36 in./61 to 91 cm  
**Spread:** 24 in./61 cm

**USDA Hardiness Zones:**  
5a to 9b (-20 to 25°F/-29 to -4°C  
minimum temperatures)

**A First-Year-Flowering Perennial.**

**Seed supplied as:** Raw

**Plug crop time:** 3 to 4 weeks

**Transplant to finish:**  
10 to 13 weeks

- Produces big, bushy, well-branched plants without pinching.
- Numerous 6 to 8-in./15 to 20-cm flowers.
- Ideal for large containers or in perennial gardens.
- Very responsive to PGRs.
- Higher germination than other seed varieties.

**IBERIS** ●  
*Iberis sempervirens*

**Whiteout F1**

**Height:** 6 to 8 in./15 to 20 cm  
**Spread:** 8 to 12 in./20 to 30 cm

**USDA Hardiness Zones:**  
3a to 8b (-40 to 15°F/-40 to -9°C  
minimum temperatures)

**Seed supplied as:** Raw

**Plug crop time:** 3 to 4 weeks

**Transplant to finish:**  
26 to 36 weeks; sow May to  
mid-August, finish March to May

- Delivers more uniform flowering and plant habit than other seed varieties.
- Improved branching and centre fill provides a more attractive finished plant.
- No pinching needed, for less labour and plant loss.



**Avignon Early Blue** EU PBRAF

## LAVANDULA

*Lavandula angustifolia*

### Avignon Early Blue

**Height:** 10 to 12 in./25 to 30 cm  
**Spread:** 9 to 11 in./23 to 28 cm

**USDA Hardiness Zones:**  
6a to 8b (-10 to 15°F/-23 to -9°C  
minimum temperatures)

**A First-Year-Flowering Perennial.**

**Seed supplied as:** Raw

**Plug crop time:** 5 to 6 weeks

**Transplant to finish:**

10 to 14 weeks  
(24 to 36 weeks overwintered)

- *Grow early, grow easy, grow beautiful!* This tight, well-branched and strong-stemmed plant shows deeper blue blooms earlier than similar English Lavenders.
- Grown as annual in the early cool season, Avignon Early Blue finishes about 2 weeks earlier than our Ellagance Purple and 1 week before the competition.
- Critical daylength is only 10 hours, like Ellagance Purple, but Avignon Early Blue grows better in cool conditions.



**Ellagance Purple** Fleuroselect Gold Medal

### Ellagance Purple

**Height:** 12 to 14 in./30 to 36 cm  
**Spread:** 10 to 12 in./25 to 30 cm

**USDA Hardiness Zones:**  
5b to 8b (-15 to 15°F/-26 to -9°C  
minimum temperatures)

**A First-Year-Flowering Perennial.**

**Seed supplied as:** Raw

**Plug crop time:** 5 to 6 weeks

**Transplant to finish:**

10 to 14 weeks  
(24 to 36 weeks overwintered)

- Ellagance stands out from other seed and vegetative lavenders for its excellent uniformity, earliness and spike quality.
- Outstanding branching fills pots quickly and finishes with large, dense flower spikes and very strong stems.
- Spreading and upright plants have rich grey-green foliage.
- Winter hardy, cold tolerant and durable performance; foliage holds up better compared to other lavenders.
- High uniformity means harvest times are short and comparable to any vegetative variety.
- Ships well; long-flowering in perennial beds and patio planters.
- Great as a garden plant and for drying and arranging.
- Large, elegant flowers bloom all Summer and attract butterflies.



**Lavance Deep Purple** EU PBR 48822

### Lavance Deep Purple

**Height:** 10 to 12 in./25 to 30 cm  
**Spread:** 10 to 12 in./25 to 30 cm

**USDA Hardiness Zones:**  
5a to 8b (-20 to 15°F/-29 to -9°C  
minimum temperatures)

**A First-Year-Flowering Perennial.**

**Seed supplied as:** Raw

**Plug crop time:** 5 to 6 weeks

**Transplant to finish:** 9 to 11 weeks

- Produces the deepest purple-blue Summer colour with no bleaching, on the most controlled *L. angustifolia* available.
- The only well-bulked Summer English Lavender - does not break in shipping.
- Strong branching.
- Best for Summer production, longer days and higher temperatures. Can also be scheduled for traditional overwintering production with potting Weeks 28 to 32.
- Highly scented.
- Attracts pollinators, but does not attract deer and rabbits.

## Complete your Lavender program here!

Find four outstanding varieties to fill in your regionally focused program of *Lavandula angustifolia* from PanAmerican Seed. With Blue Spear (page 140), Avignon Early Blue, Ellagance Purple and Lavance Deep Purple, we have all the seed Lavender to keep you growing. Find more information in our regional Lavender Scheduling Tool at [panamseed.com/perennials](http://panamseed.com/perennials).

Find scheduling information here.





Blue Spear EU PBRAF



Blue Spear EU PBRAF



Blue Spear EU PBRAF

LAVANDULA  
ANGUSTIFOLIA continued

### Blue Spear

**Height:** 11 to 13 in./28 to 33 cm

**Spread:** 9 to 11 in./23 to 28 cm

**USDA Hardiness Zones:**

6a to 8b (-10 to 15°F/-23 to -9°C  
minimum temperatures)

**A First-Year-Flowering Perennial.**

**Seed supplied as:** Raw

**Plug crop time:** 5 to 6 weeks

**Transplant to finish:**

11 to 15 weeks

(24 to 36 weeks overwintered)

- *The showiest English Lavender you can grow and sell!* Blue Spear shows off bigger, taller spikes than any other seed lavender, with more upright flower stems that stand closer to each other for huge impact from a distance.
- Very easy to grow, with high uniformity, good habit and earliness (if grown with minimum 12-hour daylength).

**LAVANDULA** ●*Lavandula stoechas***Bandera Series****Height:** 7 to 9 in./18 to 23 cm  
**Spread:** 10 to 12 in./25 to 30 cm**USDA Hardiness Zones:**  
7a to 10b (0 to 35°F/-18 to 2°C  
minimum temperatures)**A First-Year-Flowering Perennial.****Seed supplied as:** Raw**Plug crop time:** 6 to 7 weeks**Transplant to finish:**11 to 14 weeks (28 to 35 weeks  
overwintered, only in high  
light/low humidity areas)

- Professional-quality seed *L. stoechas* series produces quality comparable to vegetative varieties.
- Compact to medium habit with good branching and uniformity; it easily fills 4-in./10-cm pots to gallons.
- One to three weeks earlier to flower than the competition.
- Flowers heavily to almost cover the plant.
- Short harvest window fits for bench run programs.
- Long-flowering and self-cleaning with good secondary flush of flowers.
- Holds dense, mounded habit in the garden without falling open.
- A "Gateway to Gardening" variety for young shoppers – attention-getting nursery and grocery store impulse item, gift plant and indoor potted plant.

**Deep Rose** The strongest rose colour from seed on the market! Habit and timing are a great match for the other Bandera varieties.

**Purple** 1 week later to flower than the rest of the series.

**Save time with seed *L. stoechas***

Professional-quality *L. stoechas* Bandera is an excellent seed option for this class. This compact, bushy, no-pinch plant has great flower power just 11 to 14 weeks from transplant, and it's quick to finish compared to the vegetative options. Plus, no pinch means less production time, making it an all-around perennial star!

**LAVANDULA** ●*Lavandula multifida***Spanish Eyes****Height:** 16 to 25 in./41 to 64 cm  
**Spread:** 20 to 30 in./51 to 76 cm**USDA Hardiness Zones:**  
7a to 10b (0 to 35°F/-18 to 2°C  
minimum temperatures)**A First-Year-Flowering Perennial.****Seed supplied as:** Raw**Plug crop time:** 5 to 6 weeks**Transplant to finish:**

10 to 12 weeks

- Fast-growing tender perennial/annual variety flowers all Summer, right up until frost.
- Soft-textured and finely cut fernleaf foliage is topped by branched, 4-in./10-cm spikes that are beautiful in bud and stunning when blooms open.
- Free-flowering in pot and garden.

**Bandera Deep Rose** Fleuroselect Novelty**Bandera Deep Purple** Fleuroselect Novelty**Bandera Purple** Fleuroselect Gold Medal, Fleuroselect Novelty**Spanish Eyes**



White Lion



White Lion

**Cover Spring and Summer sales with the best seed shastas!**

Count on **White Lion** for early-Spring sales from overwintered production (previously only possible with vegetative varieties) and for Spring sales from annual production. **Madonna** offers late Spring and Summer sales in long-day conditions. Both are more uniform in height and habit than their seed counterparts, and they provide an excellent alternative to vegetative Leucanthemum, with no vernalisation needed and no risk for bacterial infection.



White Lion



Madonna Fleuroselect Gold Medal, Fleuroselect Novelty

**LEUCANTHEMUM** ●  
*Leucanthemum x superbum*

### White Lion F1

**Height:** 8 to 10 in./20 to 25 cm  
**Spread:** 8 to 12 in./20 to 30 cm  
**Flower size:** 3 to 3.5 in./8 to 9 cm

**USDA Hardiness Zones:**  
3b to 9a (-35 to 20°F/-37 to -7°C  
minimum temperatures)

**A First-Year-Flowering Perennial.**

**Seed supplied as:** Raw

**Plug crop time:** 5 to 6 weeks  
**Transplant to finish:**  
annual, 9 to 12 weeks;  
overwintered, 18 to 26 weeks  
(18 in southern regions)

- The Spring Shasta! This unique compact seed *Leucanthemum* can be grown in short days (10-hour daylength requirement), so it's perfect for early Spring sales!
- An alternative to vegetative varieties, it doesn't require vernalisation and has no risk of bacterial infection.
- Ideal for an annual production schedule, as no supplemental lighting needed; it flowers under natural days.
- Perfect for overwintered production in natural short days, finished under natural short days, when it will bulk more uniformly. No supplemental light or Night Interruption is needed.
- No other seed variety offers this early programming solution!

### Madonna F1

**Height:** 8 to 10 in./20 to 25 cm  
**Spread:** 8 to 12 in./20 to 30 cm  
**Flower size:** 2.5 to 3 in./6 to 8 cm

**USDA Hardiness Zones:**  
3b to 9a (-35 to 20°F/-37 to -7°C  
minimum temperatures)

**A First-Year-Flowering Perennial.**

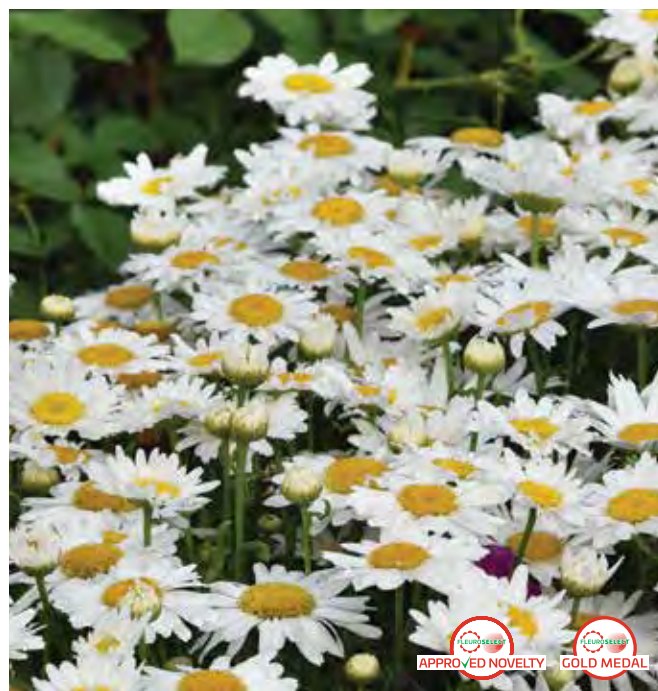
**Seed supplied as:** Raw

**Plug crop time:** 5 to 6 weeks  
**Transplant to finish:**  
10 to 14 weeks

- Madonna offers better uniformity in height and habit over the competition.
- Compact, first-year-flowering F1 shasta has a critical daylength of 14.5 hours, making it an attractive alternative to vegetative varieties that doesn't require vernalisation and has no risk of bacterial infection.
- Features excellent vigour and leaf quality for optimal finishing in quarts to large containers using multiple plugs.
- It also offers a reduced percentage of "too small" plants compared to standard seed varieties.
- With a larger percentage of saleable plants, Madonna requires less labour for harvesting and grading.
- Up to 15% of petals may have laced-edge petals for a unique look.



Madonna Fleuroselect Gold Medal, Fleuroselect Novelty



Madonna Fleuroselect Gold Medal, Fleuroselect Novelty



Scarlet



Scarlet Bronze Leaf



Scarlet Bronze Leaf



Blue



Burgundy



Rose

**LOBELIA** ●  
*Lobelia x speciosa*

**Starship™ Series F1**

**Height:** 20 to 24 in./51 to 61 cm  
**Spread:** 8 to 12 in./20 to 30 cm

**USDA Hardiness Zones:**  
6a to 10b (-10 to 35°F/-23 to 2°C  
minimum temperatures)

**A First-Year-Flowering Perennial.**

**Seed supplied as:** Pelleted

**Plug crop time (288 tray):**

Scarlet, 7 to 9 weeks; all  
others, 8 to 10 weeks

**Transplant to finish:**

14 to 18 weeks

- Earlier flowering; improved branching; low stretch; uniform, controlled habit; and huge flower power assure a better-quality finished plant than the competition.
- Pretty Summer plant for beds and borders – prefers higher temperatures, humidity and moisture.
- Good germination and plug yield.
- Versatile series works well from 5-in./13-cm pots to higher-value 1 and 2-gallon containers.
- Performs well in both annual and perennial combos.
- Attracts hummingbirds and butterflies.

**Blue** This variety has a height of 24 to 28 in./61 to 71 cm, which is 6 to 8 in./15 to 20 cm taller than the rest of the series. It also has green leaves, in contrast to the bronze leaves of the other varieties.

**Burgundy** Features the same habit as Scarlet and Rose.

**Rose** A bright rose colour. Matches Scarlet for timing and uniformity.

**Scarlet Bronze Leaf**

The most bronze-leaved variety in the series. Grows to 24 to 26 in./61 to 66 cm in height, about 4 to 6 in./13 to 15 cm taller than Scarlet, and is 1 week later to flower. Features an in-demand combination of deep bronze leaves with intense scarlet flower power.

**ANNUAL LOBELIA** See page 62.



Mon Amie Blue Myosotis US PVP 200800070



Mon Amie Pink Myosotis



Mon Amie Mixture Myosotis

**MYOSOTIS** ●●●  
*Myosotis sylvatica*

**Mon Amie Series**

**Height:** 8 to 10 in./20 to 25 cm  
**Spread:** 6 to 8 in./15 to 20 cm  
**Flower size:** 0.2 to 0.3 in./1 cm

**USDA Hardiness Zones:**  
6a to 8b (-10 to 15°F/-23 to -9°C minimum temperatures)

**A First-Year-Flowering Perennial.**

**Seed supplied as:** Raw

**Plug crop time:** 4 weeks  
**Transplant to finish:** 5 to 9 weeks

- Send your crop to market 3 to 6 months earlier than biannual myosotis varieties, as no vernalisation is needed for flowering.
- Can be a good choice for annual programs and can be reliably scheduled for Autumn or Spring.
- Media/soil pH requirements are similar to *Primula acaulis*.

**Pink** Has the same habit as Mon Amie Blue, but the foliage is a bit lighter green, and first and 100% flowering are 2 to 3 days earlier.

**Mixture** Combines Blue, Pink and White (not available separately).

**ORNAMENTAL OREGANO KIRIGAMI** See page 70.



Champagne Bubbles Orange Papaver



Champagne Bubbles Pink Papaver



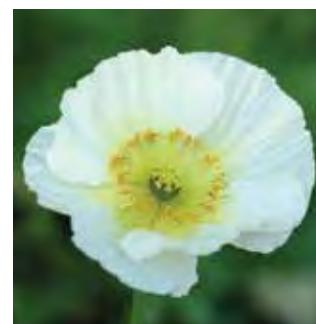
Champagne Bubbles Scarlet Papaver



Champagne Bubbles Yellow Papaver



Champagne Bubbles Mixture Papaver



Champagne Bubbles White Papaver

**PAPAVER** ●●●  
*Papaver nudicaule*

**Champagne Bubbles Series F1**

**Height:** 15 in./38 cm  
**Spread:** 6 in./15 cm

**USDA Hardiness Zones:**  
4a to 8b (-30 to 15°F/-34 to -9°C minimum temperatures)

**A First-Year-Flowering Perennial.**

**Seed supplied as:** Primed

**Plug crop time:** 4 to 5 weeks  
**Transplant to finish:** 5 to 6 weeks

- Hybrid vigour delivers uniform flowers, earliness and long-lasting garden performance compared to O.P. varieties.
- Many large, cup-shaped flowers top bushy, strong-stemmed plants.
- Performs well in hot-day, cool-night conditions.
- Good Winter item in Florida, California and similar climates.



Blue Steel Perovskia *Fleuroselect Novelty*

### It's as tough as...STEEL!

A perennial first: Grow high-quality, affordable Perovskia from professional-grade seed. Blue Steel has higher and much more uniform germination than other seed varieties, so you'll grow top-notch plugs easily and efficiently. No vernalisation or overwintering is needed, so production time is slashed. And grown beside leading vegetative varieties, you can't see a difference.



Bluesette Perovskia *Fleuroselect Novelty*



Electric Blue Penstemon

**PENSTEMON** ●  
*Penstemon heterophyllus*

### Electric Blue

**Height:** 18 in./46 cm  
**Spread:** 24 in./61 cm

**USDA Hardiness Zones:**  
6a to 8b (-10 to 15°F/-23 to -9°C minimum temperatures)

**A First-Year-Flowering Perennial.**

**Seed supplied as:** Raw

**Plug crop time:** 4 to 5 weeks

**Transplant to finish:**  
12 to 13 weeks

- Good performer in warm climates, producing multiple stems with branched spikes holding intense blue flowers.

### Bluesette



**Height:** First year, 14 to 22 in. (36 to 56 cm); second year and on, 18 to 26 in. (46 to 66 cm)

**Spread:** First year, 14 to 24 in. (36 to 61 cm); second year and on, 24 to 30 in. (61 to 75 cm)

**Flower size:** 0.2 to 0.3 in./1 cm

**USDA Hardiness Zones:**  
4a to 9a (-30 to 20°F/-34 to -7°C minimum temperatures)

**A First-Year-Flowering Perennial.**

**Seed supplied as:** Raw

**Plug crop time:** 5 to 8 weeks

**Transplant to finish:**  
10 to 14 weeks

- The first and only compact, branching and early Perovskia from seed.
- Works well at the front of the landscape, as well as in a single premium patio container or mixed combo.
- A true alternative to vegetative varieties.
- This facultative long-day plant will flower earlier in long days, as well as in higher light intensity and temperatures.
- Features a long flowering period, with ornamental foliage, a pleasing fragrance and attracts pollinators.
- Novelty type brings added value and appeal to a variety of garden spaces.

**PEROVSKIA** ●  
*Perovskia atriplicifolia*

### Blue Steel



**Height:** First year, 18 to 24 in./46 to 61 cm; second year and on, 30 to 36 in./76 to 91 cm

**Spread:** First year, 14 to 22 in./36 to 56 cm; second year and on, 20 to 38 in./51 to 97 cm

**USDA Hardiness Zones:**  
4a to 9b (-30 to 25°F/-34 to -4°C minimum temperatures)

**A First-Year-Flowering Perennial.**

**Seed supplied as:** Raw

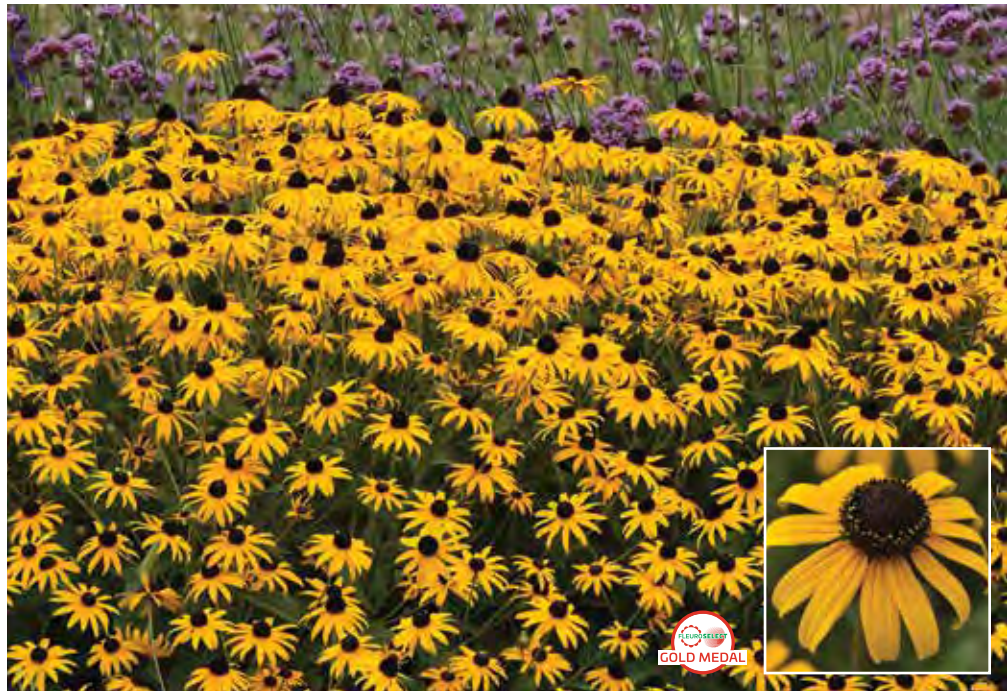
**Plug crop time:** 5 to 11 weeks

**Transplant to finish:** 9 to 15 weeks

- Sturdy, controlled habit in the landscape.
- Aromatic, silvery foliage carries clouds of small blue flowers on strong silver stems that do not break or split easily.
- Pinch for optimal branching.
- Heat/drought tolerant and very hardy.

**A natural daylength growing solution**

Here's a first-year-flowering solution for growers that cannot finish Goldsturm under their natural growing conditions. Goldblitz provides a more economical input option for natural daylength growers, as the plugs do not require special treatment to perform to the same quality as Goldsturm.



**Goldblitz** *Fleuroselect Gold Medal*

**RUDBECKIA** ●

*Rudbeckia fulgida* var. *sullivantii*

**Goldblitz**



**Height:** 24 to 28 in./61 to 71 cm  
**Spread:** 14 to 18 in./36 to 46 cm  
**Flower size:** 3 to 3.5 in./8 to 9 cm

**USDA Hardiness Zones:** 3a to 9b (-40 to 25°F/-40 to -4°C minimum temperatures)

**A First-Year-Flowering Perennial.**

**Seed supplied as:** Primed

**Plug crop time:** 6 to 7 weeks

**Transplant to finish:** 15 to 20 weeks

- Will flower fully as an annual crop if sown in early Spring in natural conditions, assuming that Summer provides a minimum of 14.5 hours daylength; Goldsturm requires 15 hours critical daylength.
- Shortens the production time for a finished flowering crop to 2 to 3 weeks compared to Goldsturm.
- Provides a more economical input option for natural daylength growers, as the plugs do not require special treatment.
- It has a slightly smaller leaf and flower size than Goldsturm.
- *Fleuroselect Gold Medal* award winner for both container and garden performance.

**Goldsturm**



**Height:** 24 to 28 in./61 to 71 cm  
**Spread:** 14 to 18 in./36 to 46 cm  
**Flower size:** 3 to 4 in./8 to 10 cm

**USDA Hardiness Zones:** 3a to 9b (-40 to 25°F/-40 to -4°C minimum temperatures)

**A First-Year-Flowering Perennial.**

**Seed supplied as:** Primed

**Plug crop time:** 6 to 8 weeks

**Transplant to finish:** 20 to 24 weeks

- Superior seed quality compared to other Goldsturm strains.
- Premium, late Summer-flowering perennial is considered "best in class" for landscapes.
- Upright plants produce a large, single, scentless bloom on every stem, over tight, dark green foliage.
- Goldsturm needs early sowing and optimal natural growing conditions to provide 100% first-year flowering.



**Goldsturm**



**Opening the door to seed Salvia**

With the tallest spikes and the deepest blue colour, Salvatore Blue is an excellent alternative to vegetative Salvia. Plus, it offers a critical daylength of 10 hours for finishing in early Spring, which previously was only possible with vegetative varieties.



Salvatore Blue Fleuroselect Novelty



Salvatore Blue Fleuroselect Novelty



New Dimension Rose  
Fleuroselect Novelty



New Dimension Blue

**SALVIA** ●  
*Salvia nemorosa*

**New Dimension™ Series**

**Height:** 8 to 10 in./20 to 25 cm  
**Spread:** 6 to 8 in./15 to 20 cm  
**Flower size:** 0.2 to 0.3 in./1 cm

**USDA Hardiness Zones:**  
4a to 8b (-30 to 15°F/-34 to -9°C minimum temperatures)

**A First-Year-Flowering Perennial.**

**Seed supplied as:**  
Treated, Non Chemical

**Plug crop time:** 5 to 6 weeks  
**Transplant to finish:** 8 to 11 weeks

- The deepest blue and rose Salvia from seed!
- Economical and easy to produce.
- Large, compact and well-branched plants feature strong-coloured flowers that last in the landscape.
- Well-matched series finishes fast with no PGRs needed.
- Fits into annual production schedules.

**Salvatore Blue**

**Height:** 10 to 12 in./25 to 30 cm  
**Spread:** 6 to 8 in./15 to 20 cm  
**Flower size:** 0.2 to 0.3 in./1 cm

**USDA Hardiness Zones:**  
4a to 8b (-30 to 15°F/-34 to -9°C minimum temperatures)

**A First-Year-Flowering Perennial.**

**Seed supplied as:**  
Treated, Non Chemical

**Plug crop time:** 5 to 6 weeks  
**Transplant to finish:** 8 to 10 weeks

- Premium-look Salvia features the largest spikes and the deepest coloured calyx, spikes and flower in *Salvia nemorosa* from seed.
- A good seed alternative to vegetative Salvia.
- More vigorous than New Dimension™ Blue, it is better suited for gallons.
- Features black stems on well-branched plants.
- Ideal for annual and overwintering production.
- With a critical daylength of 10 hours, it is possible to finish for early Spring, which previously was only possible with vegetative varieties.



Patio Deep Blue Salvia

**SALVIA** ●  
*Salvia patens*

### Patio Deep Blue

**Height:** 12 to 14 in./30 to 36 cm  
**Spread:** 8 to 12 in./20 to 30 cm

**USDA Hardiness Zones:**  
8a to 10b (10 to 35°F/-12 to 2°C  
minimum temperatures)

**A First-Year-Flowering Perennial.**

**Seed supplied as:** Raw

**Plug crop time:** 5 to 6 weeks  
**Transplant to finish:** 7 to 11 weeks

- With its excellent branching plant habit, Patio is more compact and richer flowering than similar strains.
- Also works well as an annual.
- Well-suited to Summer containers and borders/beds.

**SCABIOSA** ●●  
*Scabiosa columbaria*

### Blue Note

**Height:** 8 to 10 in./20 to 25 cm  
**Spread:** 8 to 10 in./20 to 25 cm

**USDA Hardiness Zones:**  
5a to 9b (-20 to 25°F/-29 to -4°C  
minimum temperatures)

**A First-Year-Flowering Perennial.**

**Seed supplied as:** Raw

**Plug crop time:** 6 to 8 weeks  
**Transplant to finish:**  
12 to 14 weeks

- Uniform and compact, with no PGRs needed in production.
- Long-flowering, basal-branching plants have dense, dark green foliage and abundant, short-stemmed, clear blue flowers all season.



Blue Note Scabiosa

**VERBASCUM** ●  
*Verbascum x hybrida*

### Southern Charm

**Height:** 24 to 30 in./61 to 76 cm  
**Spread:** 12 to 18 in./30 to 46 cm

**USDA Hardiness Zones:**  
5a to 8b (-20 to 15°F/-29 to -9°C  
minimum temperatures)

**A First-Year-Flowering Perennial.**

**Seed supplied as:** Pelleted

**Plug crop time:** 4 to 5 weeks  
**Transplant to finish:**  
12 to 13 weeks

- Florets are arranged in pairs, doubling the life of the flower spike.
- Plants bloom in Spring, go dormant under high temperatures and rebloom in Autumn.

**VERBENA** ●  
*Verbena bonariensis*

### Buenos Aires

**Height:**  
40 to 50 in./102 to 127 cm  
**Spread:** 12 to 16 in./30 to 41 cm

**USDA Hardiness Zones:**  
7a to 9b (0 to 25°F/-18 to -4°C  
minimum temperatures)

**A First-Year-Flowering Perennial.**

**Seed supplied as:** Primed

**Plug crop time:** 6 to 7 weeks  
**Transplant to finish:**  
16 to 18 weeks

- Tall, free-flowering Verbena with open plant habit is grown primarily as an annual and used as a pretty accent plant or height divider in the border.



Southern Charm Verbascum

**VERBENA** ●  
*Verbena rigida*

### Santos Purple

**Height:** 12 in./30 cm  
**Spread:** 48 in./122 cm

**USDA Hardiness Zones:**  
7a to 11 (0 to 40°F/-18 to 4°C  
minimum temperatures)

**A First-Year-Flowering Perennial.**

**Seed supplied as:** Primed

**Plug crop time:** 6 to 7 weeks  
**Transplant to finish:**  
11 to 13 weeks

- One of the best tough and long-lasting landscape perennials available - very heat and drought tolerant, plus exceptional performance in cool climates.
- Compact and upright, well-branched plants bloom late Spring through Summer.
- High powdery mildew resistance.
- Ideal for use in combo planters.



Buenos Aires Verbena



Santos Purple Verbena

# POTTED PLANTS







Concertina Mixture



Concertina Red, Yellow & Purple



Concertina Pink



Concertina Purple



Concertina Red



Concertina Red Dark Leaf



Concertina Yellow



Kosmo Cherry



Kosmo Orange

**CELOSIA**   
*Celosia cristata*

**Concertina™ Series**

**Height:** 8 to 10 in./20 to 25 cm

**Spread:** 6 to 8 in./15 to 20 cm

**Seed supplied as:** Pelleted

**Plug crop time:** 3 to 4 weeks

**Transplant to finish:** 4 to 6 weeks

- Concertina is best for use as an indoor potted plant and in a sunny spot outdoors on the patio.
- This compact pot *cristata* has the widest colour range on the market.

**Pink** Slightly more vigorous than the rest of the series.

**Red Dark Leaf** More vigorous compared to the rest of the series.

**Yellow** Slightly later to flower compared to the rest of the series. Can be more than 1 week in long days.

**Mixture** Pink and Red Dark Leaf in the mix are slightly more vigorous compared to the rest of the series.

**CELOSIA**   
*Celosia spicata*

**Kosmo Series**

**Height:** 8 in./20 cm

**Spread:** 8 to 10 in./20 to 25 cm

**Seed supplied as:** Pelleted

**Plug crop time:** 3 to 4 weeks

**Transplant to finish:** 9 to 11 weeks

- Genetically dwarf series for year-round pot and pack programs needs no PGRs or pinching.
- Produces a main stem at the base with many side spikes; flower heads top well-proportioned leaves.
- Short production time, long retail shelf life and excellent potted performance.



Kosmo Purple Red



Kosmo Salmon



Kosmo Yellow



Kosmo Mixture

Series	No. of Varieties	Recommended pot size
Concertina Series	5 & 1 mix	4-4.5 in./10-11 cm, Quart
Kosmo Series	5 & 1 mix	4-4.5 in./10-11 cm, Quart



Lavender, Pink & Blue



Blue

**CAMPANULA** ●  
*Campanula medium*

**Campanella™ Series F1**

**Height:** 8 to 10 in./20 to 25 cm  
**Spread:** 8 to 9 in./20 to 23 cm

**Seed supplied as:** Pelleted

**Plug crop time:** 6 to 7 weeks  
**Transplant to finish:** 7 to 10 weeks

- The Campanella series features larger blooms and includes a unique lavender colour.
- The more vigorous plants are suitable for larger pots.
- Fills pots better with more flowers.
- Around 1 week later to flower than other campanula on the market.

Series	No. of Varieties	Recommended pot size
Campanella	3	4-4.5 in./10-11 cm, Quart



Lavender



Pink



Acapulco XP Dark Orange, Yellow and Red



Acapulco XP Mixture



Acapulco XP Multicolor Red



Acapulco XP Multicolor Orange



Acapulco XP Purple

**ORNAMENTAL PEPPER  
(INDOOR/OUTDOOR  
PEPPER)**

*Capsicum annuum*

Seed supplied as: Raw

- Compact.
- No PGRs needed.
- Excellent uniformity.
- Ideal for indoor/outdoor use.

**Ornamental Peppers**

Variety	Fruit colour	Plug crop time (weeks)	Potting to sale (weeks)	Pot size	Fruit size	Height
<b>Acapulco™ XP Series</b>	Dark Orange, Multicolor Orange, Multicolor Red, Purple, Red, Yellow, Mixture	3-4	12-13	4.25 x 5 in./11-13 cm 3 ppp: 6.5-8 in./17-20 cm	0.5 x 1.5 in./1.5 x 4 cm	6 in./15 cm
<b>Salsa XP Series</b>	Deep Orange, Purple, Red, Yellow, Yellow-Red, Mixture	3-4	12-13	2.25-4.25 in./6-11 cm	0.3 x 1 in./1 x 3 cm	4 in./10 cm
<b>Samba Series</b>	Dark Orange, Red, Yellow, Mixture	3-4	14-15	4-5 in./10-13 cm	0.75 x 1.5 in./2.5 x 4 cm	6 in./15 cm



Salsa XP Red



Samba Dark Orange



Salsa XP Deep Orange



Salsa XP Purple



Salsa XP Yellow



Salsa XP Yellow-Red



Samba Mixture



Salsa XP Mixture



Samba Red



Samba Yellow



**Hot Pops Purple** US 9,301,465 Louisiana Super Plant



**Hot Pops Yellow** US 9,307,712



**Cupala**



**Medusa**

**Ornamental Peppers**

Variety	Fruit colour	Plug crop time (weeks)	Potting to sale (weeks)	Pot size	Fruit size	Height
<b>SMALL POTS 2.5-5 in./10-15 cm (Compact plants)</b>						
<b>Hot Pops Series</b>	Purple, Yellow	4-5	7-13 for Autumn finish	4.25-5 in./11-13 cm or 3 ppp: 6-8 in./15-20 cm	0.4 in./1 cm round	4-5 in./10-13 cm
Pump up your Autumn potted plant sales with an unusual fruit form and multicolours! Small, round peppers show multiple colours simultaneously to make a high-impact display for outdoor and indoor decorating. Compact, heavily branched plants with determinate growth. Perfect for quart and Mum Pals programs, plus Autumn mixed containers. <i>NOTE: Fruit is very hot on Hot Pops Purple, and medium hot on Hot Pops Yellow.</i>						
<b>Cupala</b>	Lime to red	3-4	11-12	4-4.5 in./10-12 cm	0.3 x 2.75 in./1 x 7 cm	4.5 in./12 cm
<b>Medusa</b>	Ivory to yellow to orange to bright red	4-5	7-13 for Autumn finish	4 in./10 cm	2-2.5 in./5-6 cm	6-8 in./15-20 cm

Child-safe, non-pungent fruit is colourful and twisted. Naturally dwarf, well-branched plants have dark foliage. A single plant can produce 40 to 50 fruits, displaying the entire colour range at once. Holds fruit well, allowing for great shelf life and long sales period.



**Wicked**



**Chilly Chili** All-America Selections Winner, Louisiana Super Plant



**Santos Orange**



**Santos Red**



**Harlequin**

Ornamental Peppers						
Variety	Fruit colour	Plug crop time (weeks)	Potting to sale (weeks)	Pot size	Fruit size	Height
<b>SMALL POTS 2.5-5 in./10-15 cm (Compact plants)</b>						
<b>Santos Series</b>	Orange, Red	3-4	12-13	4-4.5 in./10-12 cm 3 ppp: 6.5-7.5 in./ 17-19 cm	0.3 x 2 in./1 x 5 cm	6 in./15 cm
<b>Wicked</b>	Purple to red	4-5	7-13 for Autumn finish	4-4.5 in./10-12 cm	1 x 2.75 in./3 x 7 cm	6-8 in./15-20 cm
Compact plants show extra-large fruit that will certainly capture retail attention! Determinate variety should be sold at first colour or with a few fruit changing to red. Perfect for quart and Mum Pals programs, plus Autumn mixed containers. <i>NOTE: Fruit has mild heat.</i>						
<b>LARGER POTS 6-8 in./15-20 cm (More vigorous plants)</b>						
<b>Chilly Chili F1</b>	Yellow-green to orange to dark red	4-5	7-13 for Autumn finish	6 in./15 cm	2-2.5 in./5-6 cm	9-10 in./ 23-25 cm
Child-safe, non-pungent fruit - ideal for indoor and outdoor use in public and residential areas. F1 vigour makes it excellent for containers and gardens. Overall plant size is about 30% larger than Medusa, with similar crop time.						
<b>Harlequin</b>	Multicolour	3-4	13-14	4.5-6 in./12-15 cm	0.5 x 0.75 in./1.5 x 2.5 cm	8 in./20 cm



Princess Deep Blue



Princess White



Royal Dane Deep Blue



Royal Dane White

**EXACUM** ●

*Exacum affine*

**Plug crop time:** 5 to 6 weeks

**Transplant to finish:** Varies by variety

**Seed supplied as:** Pelleted

- Low cost and fast production.
- Perfect crop for Summer production.
- Long-lasting flowers have a sweet fragrance.
- Extremely good shelf life.
- Sales period: March to October.

Variety	Colour	Potting to sale (weeks)	Pot size	Height
Princess Series	Deep Blue, White	10-12	4-5 in./ 10-13 cm	4-6 in./ 10-15 cm
Royal Dane Series	Deep Blue, White	10-12	2.25-5 in./ 6-13 cm	4-6 in./ 10-15 cm



Bright Red



Watermelon



Bright Orange with Light Eye



Deep Rose with Light Eye



Orange with Light Eye



Rose with Light Eye



Scarlet Red with Light Eye



White with Light Eye



Bright Rose with Dark Eye



Orange with Dark Eye



Yellow with Dark Eye



Select Mixture

**GERBERA**   
*Gerbera jamesonii*

**Mega Revolution™ Series F1**

**Height:** 6 to 10 in./15 to 25 cm  
**Spread:** 12 to 14 in./30 to 36 cm  
**Flower size:** 4 to 5 in./10 to 13 cm  
**Seed supplied as:** Coated  
**Plug crop time:** 6 to 7 weeks  
**Transplant to finish:** 8 to 10 weeks

- Produces manageable, larger-sized plants with very large flowers - beats competing series for colour range, bloom size and seed quality.
- Ideal for larger container programs.
- Supplied with industry-leading seed quality.

**Bright Orange with Light Eye**  
One of the fastest varieties in the series and one with the largest flowers.

**Bright Red** Contains a mix of dark and light eyes.

**Bright Rose with Dark Eye**  
Smaller flowers and slightly taller compared to the series average.

**Deep Rose with Light Eye**  
Superior dark colour is great for mixes and combo pots. Colour holds very well under high light levels.

**Scarlet Red with Light Eye**  
Largest flowers on the market; best red variety in the series.

**White with Light Eye**  
Cleaner white colour than the competition.

**Yellow with Dark Eye**  
Best dark-eyed yellow gerbera on the market.

**Select Mixture**  
Uniform mix of bold, bright colours.



Orange with Dark Eye



Orange with Dark Eye



Deep Pink with Light Eye

GERBERA continued

**Revolution™ Series F1**

**Height:** 4 to 8 in./10 to 20 cm  
**Spread:** 10 to 12 in./25 to 30 cm  
**Flower size:** 3 to 4 in./8 to 10 cm

**Seed supplied as:** Coated

**Plug crop time:** 6 to 7 weeks  
**Transplant to finish:** 8 to 10 weeks

- When it comes to uniformity of flowering window across a complete colour range, Revolution is the leading standard-size pot gerbera.
- Industry-leading seed quality.
- Better second flush of flowers than the competition assures much longer bloom time for the consumer.
- Best for 5-in./13-cm pots.

**Orange with Dark Eye**  
 Highly uniform variety has a great strong orange colour and lots of broad petals. Times perfectly with the rest of the series.

**Red with Light Eye**  
 Puts multiple blooms up at one time and has the shortest cropping window of any gerbera.

**Salmon Shades with Light Eye**  
 Features short stems, making it a good mix component, with shades from deep salmon to pink.

**Yellow with Light Eye**  
 Best yellow variety in the series is a big improvement over older yellow varieties, with a strong colour and good uniformity.

**Bicolor Mixture**  
 Includes all 3 bicour varieties.

**Select Mixture**  
 Uniform mix of bold, bright colours.

- PROGRAM STANDOUTS**  
 Make sure you include these sure-fire sellers in your Revolution gerbera program!
- Bicolor Red White**
  - Bicolor Rose White**
  - Bicolor Yellow Orange**
  - Bright Rose with Light Eye**
  - Golden Yellow with Dark Eye**
  - Orange with Light Eye**
  - Orange with Dark Eye**
  - Red with Light Eye**
  - Red with Dark Eye**
  - White with Light Eye**
  - Select Mixture**

**Right on time - every time!**

Flower timing is synchronized across the colour range in each Revolution series, so your product flows smoothly. No surprises...you grow, pick, pack and ship just as you planned. High uniformity enables a consistent, fully programmable, high-density crop year-round.



Bright Rose with Light Eye



Deep Pink with Light Eye



Orange with Light Eye



Red with Light Eye



Salmon Shades with Light Eye



White with Light Eye



Yellow with Light Eye



Golden Yellow with Dark Eye



Orange with Dark Eye



Red with Dark Eye



Bicolor Red White



Bicolor Rose White



Bicolor Yellow Orange



Bicolor Mixture



Select Mixture



Yellow with Light Eye



Mega Revolution Scarlet Red with Light Eye, Revolution Bright Rose with Light Eye and ColorBloom Bicolor Orange Yellow

Series	No. of Varieties	Recommended pot size
Mega Revolution	11 & 1 mix	6 in./15 cm
Revolution	13 & 2 mixes	5 in./13 cm
ColorBloom	11 & 1 mix	Quart/11 cm

GERBERA continued

**ColorBloom™ Series F1**

**Height:** 4 to 6 in./10 to 15 cm  
**Spread:** 6 to 8 in./15 to 20 cm  
**Flower size:** 3 to 4 in./8 to 10 cm

**Seed supplied as:** Coated

**Plug crop time:** 6 to 7 weeks  
**Transplant to finish:** 6 to 10 weeks

- The ColorBloom series is specially designed for the quart/11-cm retail market.
- ColorBloom is the most uniform series on the market, with the best performance for consumers.
- The series is around 10 days faster to flower than competitors.
- More uniform with a shorter flower window.
- It has a higher amount of usable plants due to better seed quality.
- Offers a compact plant habit that requires less to no PGRs.
- Series holds its colour better and won't fade in high light.

**Bicolor Orange Yellow**

Around one week later to flower compared to other varieties in the series.

**Bicolor Red White**

A unique bicolor for this quart/11-cm pot market segment! Five days later to flower, like Bicolor Orange Yellow and Deep Orange with Dark Eye.

**Cherry with Light Eye**

Can show more red under higher light conditions.

**Deep Orange with Dark Eye**

Features a good orange colour that doesn't fade under higher light conditions. Five days later to flower, like Bicolor Red White and Bicolor Orange Yellow.

**Red with Dark Eye**

More uniform in colour and around 1 week earlier to flower than competing reds.

**Watermelon with Dark Eye**

Features slightly larger flowers than other series varieties and the colour varies a bit within the population. Colour holds best under low light conditions.

**Yellow with Dark Eye**

Slightly smaller flowers than the rest of the series.

**Yellow with Light Eye**

Slightly taller plants have bigger flowers than others in the series.

**Mixture** All the series colours except Bicolor Red White.



Mixture



Cherry with Light Eye



Deep Rose with Light Eye



Red with Light Eye



Yellow with Light Eye



Deep Orange with Dark Eye



Red with Dark Eye



Watermelon with Dark Eye



White with Dark Eye



Yellow with Dark Eye

**Small and mighty!**

ColorBloom stays neat and compact in small pots, allowing the colourful blooms to show through! Faster to flower, it beats the competition to market with bright flowers on display at retail. First-time plant buyers will love the exciting, non-fading colours and easy care of this indoor/ outdoor plant.



Bicolor Orange Yellow



Bicolor Red White



Yellow with Dark Eye, Bicolor Orange Yellow, Deep Rose with Light Eye and Red with Light Eye



Splash Select Pink and Rose Hypoestes



Splash Select Pink Hypoestes



Splash Select Red Hypoestes



Splash Select Rose Hypoestes



Splash Select White Hypoestes



Sapphire Blue Chip Lisianthus



Sapphire Blue Lisianthus



Sapphire Blue Chip Lisianthus



Sapphire Pink Rim Lisianthus



Sapphire White Lisianthus

**HYPOESTES** 

*Hypoestes phyllostachya*

**Splash Select™ Series**

**Height:** 4 to 6 in./10 to 15 cm  
**Spread:** 12 to 14 in./30 to 36 cm

**Seed supplied as:** Raw

**Plug crop time:** 4 to 5 weeks  
**Transplant to finish:** 6 to 7 weeks

- The grower's choice for mass market pot production, with excellent shipping tolerance and shelf life.
- Crop time can be reduced by planting multiple-sown young plants in each pot.
- Tolerant to heat and shade.
- Can be used as an indoor plant or offered with other bedding annuals.
- The garden height for this plant is 10 to 18 in./ 25 to 46 cm; the height listed above is potted height.

**LISIANTHUS** 

*Eustoma grandiflorum*

**Sapphire Series F1**

**Height:** 5 to 6 in./13 to 15 cm  
**Spread:** 4 to 6 in./10 to 15 cm

**Seed supplied as:** Pelleted

**Plug crop time:** 8 to 10 weeks  
**Transplant to finish:** 12 to 16 weeks

- Our most compact series for indoor plant use.
- Extremely well-branched.
- Single plug in 4-in./10-cm or multi-plant in larger container.

**CUT FLOWER LISIANTHUS**

See page 177.

Series	No. of Varieties	Recommended pot size
Splash Select Hypoestes	4	Cell Pack, 3 ppp: 4-4.5 in./ 10-12 cm, Quart
Sapphire Lisianthus	4	4-4.5 in./10-12 cm, Quart

**More blooms for repeat sales!**

SunBuzz is the pot sunflower they'll buy again and again. It's covered in blooms, thanks to the big show of secondary flowers. On the production end, SunBuzz lets you grow and sell a compact plant with fewer PGRs, so you send a good-looking and cost-effective product off to market.



Miss Sunshine



Ballad

**SUNFLOWER** ●

*Helianthus annuus*

**Ballad F1**

**Height:** 24 to 30 in./61 to 76 cm

**Spread:** 6 to 8 in./15 to 20 cm

**Seed supplied as:** Raw, Treated

**Plug crop time:** 2 to 3 weeks

**Transplant to finish:** 8 to 9 weeks

- Excellent florist gift item or indoor plant; also well-suited to warm landscape markets like Florida.
- Pollen-free, dwarf sunflower produces well-formed, 4 to 5-in./10 to 13-cm flowers.
- Flowers at short height under short days; under long Summer days, plants are taller without growth regulators.

**Miss Sunshine F1**

**Height:** 10 to 16 in./25 to 41 cm

**Spread:** 6 to 8 in./15 to 20 cm

**Seed supplied as:** Raw, Treated

**Plug crop time:** 2 to 3 weeks

**Transplant to finish:** 7 to 8 weeks

- Dwarf, golden yellow sunflower is easy and economical to produce, needing fewer PGRs and flowering at a shorter height under short days.
- Pollen-free plants have 3 to 4-in./8 to 10-cm blooms with a fast flush of secondary flowers.
- Perfect for mixed and mono planters.

**SunBuzz F1**

**Height:** 12 to 20 in./30 to 51 cm

**Spread:** 8 to 12 in./20 to 30 cm

**Seed supplied as:** Raw, Treated

**Plug crop time:** 2 to 3 weeks

**Transplant to finish:** 6 to 8 weeks

- Clear yellow-filled flowers make SunBuzz a real standout!
- Compact, smaller-leaved plants are more manageable and programmable on the bench, and more appealing in the store.
- Delivers better seed uniformity and needs fewer PGRs than similar varieties.
- Fast flowering and a compact habit.



SunBuzz

Series	Recommend pot size
Ballad	5 in./13 cm, Gallon
Miss Sunshine F1	4.5-5 in./12-13 cm/Quart/11 cm
SunBuzz F1	5-6 in./13-15 cm, Gallon

# CUT FLOWERS







**Mona Lisa Mixture Anemone**



**Mona Lisa Deep Blue Anemone**



**Mona Lisa Orchid Shades Anemone**



**Mona Lisa Pink Anemone**



**Mona Lisa Red Bicolor Anemone**



**Mona Lisa Scarlet Eye Anemone**



**Mona Lisa White Anemone**



**Mona Lisa Wine White Bicolor Anemone**

**ANEMONE**

*Anemone coronaria*

**Mona Lisa® Series F1**

**Form Supplied As:** Raw

**Cultivation Type:**

Greenhouse, High Tunnel

**Planting Density:** 22 to 44 plants/sq. metre (2 to 4 plants/sq. foot).

**Usage:** Focal

**Stem Length:** 18 in./46 cm

**Bloom Size:**

4 to 4.5 in./10 to 11 cm

The large, bright blooms of Mona Lisa Anemone are a masterpiece in any bouquet. Mona Lisa varieties produce up to 18 flowers per plant and are best grown cool without the need for supplemental light. Low temperatures (8 to 12°C/46 to 54°F) promote optimum stem length.

**Harvest Recommendation:**

Harvest when flower buds are fully coloured and about 30-40% open/cupped stage. Avoid harvesting fully open flowers with pollen shed.

**Post-Harvest Recommendation:**

Avoid ethylene exposure; an ethylene-inhibiting treatment is recommended. Hydrate and store in cooler at 1-3°C (34-38°F) in commercial floral solution at recommended rates.

**Vase Life Recommendation:**

5-7 days

**Mixture** Includes all the series colours.



**Silky Gold Asclepias**



**Silky Deep Red Asclepias**

**ASCLEPIAS**

*Asclepias curassavica*

**Silky Series**

**Form Supplied As:** Raw

**Cultivation Type:**

Greenhouse, High Tunnel, Field

**Planting Density:** 22 to 32 plants/sq. metre (2 to 3 plants/sq. foot).

**Usage:** Filler

**Stem Length:**

24 to 28 in./61 to 71 cm

High-quality series is bred for greenhouse and outdoor field production.

**Harvest Recommendation:**

Harvest early in the day when 50-65% of flowers are open. Do not sear the stems in hot water as you would do with other Asclepias.

**Post-Harvest Recommendation:**

After harvest, change solutions 2-3 times to eliminate any latex exudate. Holding solution is optional. Avoid ethylene exposure; an ethylene-inhibiting treatment is recommended. Store at 4-7°C (40-45°F). Transport in solution if possible.

**Vase Life Recommendation:**

Consumer floral preservative recommended to keep water clear. Vase life 8-10 days.

**Deep Red** Golden yellow centres.



Campana Deep Blue Campanula



Campana Lilac Campanula



Campana Pink Campanula



Campana White Campanula



Campana White Campanula

**CAMPANULA**

*Campanula medium*

**Campana Series F1**

**Form Supplied As:** Pelleted

**Cultivation Type:**

Greenhouse, High Tunnel

**Planting Density:** 64 to 80 plants/sq. metre (6 to 8 plants/sq. foot).

**Usage:** Line, Secondary

**Stem Length:**

30 to 34 in./76 to 86 cm

Top-quality professional cut flower series is a low-energy crop, suitable for Summer or Winter production. See Technical Resources at [panamseed.com/cutflowers](http://panamseed.com/cutflowers) for daylength requirements. Well-matched across the series for timing and habit, Campana delivers strong stems, good foliage and excellent uniformity.

**Harvest Recommendation:**

Harvest stems when two to three flowers are fully open.

**Post-Harvest Recommendation:**

Using cool water, use a hydrating solution upon harvest. Move to a holding solution and store at 2°C (37°F). Avoid ethylene exposure; an ethylene-inhibiting treatment is recommended.

**Vase Life Recommendation:**

Commercial preservative is recommended. Vase life up to 10 days.

**CARTHAMUS**

*Carthamus tinctorius*

**Grenade Orange**

**Form Supplied As:**

Raw, Treated

**Cultivation Type:**

High Tunnel, Field

**Planting Density:** 40 to 62 plants/sq. metre (4 to 6 plants/sq. foot).

**Usage:** Filler

**Stem Length:**

32 to 40 in./81 to 102 cm

Features thornless leaves and round flower buds atop stems of uniform length. Best grown as a direct-sown crop, in field and high tunnel applications. Good for fresh and dried green use; can also be used green when harvested young.

**Harvest Recommendation:**

Harvest when flowers are starting to open for blooming use. Cut stems young/green for use as green filler.

**Post-Harvest Recommendation:**

Hydration solution followed by holding solution. Short-term cold storage at 2-4°C (35-40°F) is tolerated. Not ethylene sensitive.

**Vase Life Recommendation:**

5-8 days

**CELOSIA**

*Celosia cristata* (Cockscomb)

**Spring Green**

**Form Supplied As:** Pelleted

**Cultivation Type:**

Greenhouse, High Tunnel

**Planting Density:** 64 to 80 plants/sq. metre (6 to 8 plants/sq. foot).

**Usage:** Secondary

**Stem Length:**

40 to 48 in./102 to 122 cm

Programmable production and good for economical, high-density programs. High yields, strong stems and few off-shoot flowers. Flowers hold colour well and are well-suited to dried use.

**Harvest Recommendation:**

Harvest stems as crest is almost completely full.

**Post-Harvest Recommendation:**

Strip 50-75% foliage. Use distilled water; no need for hydration or holding solutions. Avoid cold storage if possible.

**Vase Life Recommendation:**

7-14 days



Grenade Orange Carthamus



Spring Green Celosia



Gold



Red



Green



Orange EU PBR 44055



Pink EU PBR 43694



Rose EU PBR 43693

### Grow your margin, grow your sales

Neo lets you grow over a longer period through the year and yield more usable stems from every sq. metre/sq. foot. Ship out better quality *C. cristata* and give florists a product that's easier to arrange and easier to sell. Less long-day sensitive, making it easier to produce over a longer period during the year for most growers. Features unique colours and a much better leaf habit. Easier to work with for bouquets or flower arrangements due to smaller leaves.

CELOSIA CRISTATA continued

#### Neo™ Series

**Form Supplied As:** Pelleted

**Cultivation Type:**

Greenhouse, High Tunnel

**Planting Density:** 64 to 80 plants/sq. metre (6 to 8 plants/sq. foot).

**Usage:** Secondary

**Stem Length:**

28 to 40 in./71 to 102 cm

**Harvest Recommendation:**

Harvest stems as crest is almost completely full.

**Post-Harvest Recommendation:**

Strip 50-75% foliage. Use distilled water; no need for hydration or holding solutions. Avoid cold storage if possible.

**Vase Life Recommendation:**

7-14 days

**Orange** Unique colour for the market will stir up interest for growers, retailers and florists.

**Pink** Beautiful dark-stemmed variety, with slightly smaller bloom. 7-11 weeks transplant to finish.

**Rose** Tallest of the series. More rose colour, bigger flower heads, lighter green stems and slower to flower than Pink. 9-13 weeks transplant to finish.



Bright Pink



Cherry



Bright Orange

**CELOSIA**  
*Celosia plumosa*

**Sunday™ Series**

**Form Supplied As:** Pelleted

**Cultivation Type:**

Greenhouse, High Tunnel, Field

**Planting Density:** 64 to 80 plants/sq. metre (6 to 8 plants/sq. foot).

**Usage:** Secondary

**Stem Length:**

28 to 40 in./71 to 102 cm

First professional cut version of the popular plume-shaped celosia. Full plumes and long, strong stems enhance high-end retail mixed bouquets. Short, programmable production time and high yield; ideal for high-density programs. Excellent vase life.

**Harvest Recommendation:**

Harvest stems as plume is 90-100% developed.

**Post-Harvest Recommendation:**

Strip 50-75% foliage. Use distilled water; no need for hydration or holding solutions. Avoid cold storage if possible.

**Vase Life Recommendation:**

7-14 days

**Bright Pink** Slightly shorter plumes than others in the series.

**Cherry** Slightly larger leaves than others in the series.

**Mixture** Mix of Dark Pink, Orange, Bright Pink, Cherry, Purple and Gold.



Dark Pink



Gold



Green



**Orange** ASCFG Fresh Cut Flower of the Year



Purple



Red



Wine Red



Yellow



Mixture



Terracotta



Orange



Purple



Red



Salmon



White

**CELOSIA**  
*Celosia spicata*

**Celway™ Series**

**Form Supplied As:** Pelleted

**Cultivation Type:**

Greenhouse, High Tunnel, Field

**Planting Density:** 64 to 80 plants/sq. metre (6 to 8 plants/sq. foot).

**Usage:** Filler

**Stem Length:**

40 to 48 in./102 to 122 cm



Mixture

One central spiky plume is surrounded by several smaller spikes for a well-filled look. Short, programmable production time. Suitable for high-density production. Strong stems with small top leaves allow for good sleeving and shipability.

**Harvest Recommendation:**

Harvest stems when more than half of the flowers are completely open.

**Post-Harvest Recommendation:**

Strip 50-75% foliage. Use distilled water; no need for hydration or holding solutions. Avoid cold storage if possible.

**Vase Life Recommendation:**

7-14 days

**Purple, Terracotta and White**

Offer great field production.



Blue Donna

**DELPHINIUM**

*Delphinium elatum*

**Guardian Series F1**

**Form Supplied As:** Raw

**Cultivation Type:**

Greenhouse, High Tunnel, Field  
**Planting Density:** 25 to 45 plants/  
 sq. metre (2 to 4 plants/sq. foot).

**Usage:** Line

**Stem Length:**

30 to 39 in./76 to 99 cm

Guardian is an F1 hybrid *Delphinium elatum* that delivers programmable and reliable yields of stems.

**Harvest Recommendation:**

Harvest stems when the first 1 to 2 flowers are fully open. For local markets, harvest when 30% of florets have opened.

**Post-Harvest Recommendation:**

Delphinium are highly sensitive to ethylene; it is recommended to treat with an ethylene-inhibiting product immediately after harvest. Hydrate and store in a cooler at 1-3°C (34-38°F) in a commercial floral holding solution at the manufacturer's recommended rate.

**DELPHINIUM**

*Delphinium x belladonna*

**Blue Donna**

**Form Supplied As:** Raw

**Cultivation Type:**

Greenhouse, High Tunnel, Field  
**Planting Density:** 9 to 18 plants/  
 sq. metre (1 to 2 plants/sq. foot).

**Usage:** Line

**Stem Length:**

32 to 40 in./81 to 102 cm

Blue Donna is great for producing deep blue flowers during the warmer periods of growing.

**Harvest Recommendation:**

Harvest stems when 75-80% of the florets have opened.

**Post-Harvest Recommendation:**

Delphinium are highly sensitive to ethylene; it is recommended to treat with an ethylene-inhibiting product immediately after harvest. Hydrate and store in a cooler at 1-3°C (34-38°F) in a commercial floral holding solution at the manufacturer's recommended rate.



Guardian Blue



Guardian Lavender



Guardian White



Guardian Mixture



**Lavender Magic** Ball Gardens Top Performer

**Easy to grow for Summer Bouquets**

Versatile and programmable, Amazon can be produced year-round without vernalisation and is the best dianthus for warmer production seasons. Whether you're looking for a high-appeal filler for bouquets or an exceptional product for grower bunches, Amazon is the one you want!

**DIANTHUS**

*Dianthus barbatus interspecific*

**Amazon™ Series F1**

**Form Supplied As:** Pelleted

**Cultivation Type:**

Greenhouse, High Tunnel

**Planting Density:** 40 plants/sq. metre (3 to 4 plants/sq. foot).

**Usage:** Filler, Secondary

**Stem Length:**

18 to 36 in./46 to 91 cm

**Harvest Recommendation:**

Harvest stems when 50% of florets have opened.

**Post-Harvest Recommendation:**

Dianthus are sensitive to ethylene; it is recommended to treat with an ethylene-inhibiting product. Hydrate and store in a cooler at 1-3°C (34-38°F) in commercial floral holding solution at the manufacturer's recommended rates.

**Lavender Magic** Florets open white and gradually transition to lavender, providing the magic! For best colour, grow under glass or direct sunlight. Plastic covering will result in more muted colouration.

**Neon Duo** Mix of Neon Cherry and Neon Purple.

**Rose Magic** Blooms start white and mature to pink, then to deep rose.



**NEW**

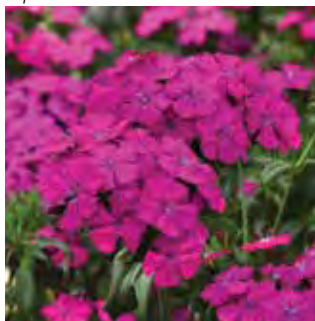
**Lavender Magic** Ball Gardens Top Performer



**Neon Cherry** Ball Gardens Top Performer, ASCFG Fresh Cut Flower of the Year



**Neon Duo** Ball Gardens Top Performer, ASCFG Fresh Cut Flower of the Year



**Neon Purple** Royal Horticultural Society Award of Garden Merit, Ball Gardens Top Performer



**Rose Magic** Royal Horticultural Society Award of Garden Merit, Ball Gardens Top Performer



**Black Cherry**



**Cherry**



**Coral** Royal Horticultural Society  
Award of Garden Merit



**White**



**Deep Pink Maxine**



**Magenta Bicolor**



**Neon Purple**



**Pink**



**Pink Magic**



**Purple**



**Purple White Bicolor**

**DIANTHUS**

*Dianthus barbatus*

**Sweet™ Series F1**

**Form Supplied As:** Pelleted

**Cultivation Type:**

Greenhouse, High Tunnel  
**Planting Density:** 64 plants/  
sq. metre (6 plants/sq. foot).

**Usage:** Filler, Secondary

**Stem Length:**

18 to 36 in./46 to 91 cm

Versatile and programmable series can be produced without vernalisation and is the best dianthus for cooler production seasons. A top-notch filler series that features large, long-lasting, very fragrant blooms on strong stems.

**Harvest Recommendation:**

Harvest stems when 20-50% of florets are open.

**Post-Harvest Recommendation:**

Dianthus are sensitive to ethylene; it is recommended to treat with an ethylene-inhibiting product. Hydrate and store in a cooler at 1-3°C (34-38°F) in commercial floral holding solution at the manufacturer's recommended rates.

**Cherry** Adding an additional red colour to the assortment, this bright cherry-red colour is a good fit between Scarlet and Red.

**Deep Pink Maxine** More intense colour than Sweet Pink. A top-selling colour in most markets.

**Rose Magic** Flowers open white, change to pink, and then mature to a rich rose.

**White** Pure white with no grey anthers.

**Mixture** Includes Black Cherry, Purple White Bicolor and White.



**Red**



**Rose Magic**



**Scarlet** Royal Horticultural Society  
Award of Garden Merit



**Mixture**



QIS Carmine



Fireworks



QIS Orange



QIS Red

**GOMPHRENA**  
*Gomphrena haageana*

**QIS Series**

**Form Supplied As:** Raw

**Cultivation Type:**

High Tunnel, Field

**Planting Density:** 11 to 21 plants/sq. metre (1 to 2 plants/sq. foot).

**Usage:** Filler

**Stem Length:**

24 to 26 in./61 to 66 cm

Vivid colour range makes these a first-class professional cut flower for greenhouse and outdoor production; suited to fresh and dried use.

**Harvest Recommendation:**

Harvest when flowers are in colour and heads are rounded, but before heads elongate.

**Post-Harvest Recommendation:**

Good-quality, clean water. No additional benefits from use of commercial floral solutions. Store at 3-4°C (36-41°F) if necessary for less than 7 days for best performance.

**Vase Life Recommendation:**

14-16 days

**GOMPHRENA**  
*Gomphrena pulchella*

**Fireworks**

**Form Supplied As:** Coated

**Cultivation Type:**

Greenhouse, High Tunnel, Field

**Planting Density:** 11 plants/sq. metre (1 plant/sq. foot).

**Usage:** Filler

**Stem Length:**

36 to 48 in./91 to 122 cm

Vigorous, "tough as nails" plants are productive and make an excellent filler flower for mixed bouquets, fresh or dried. Easy to produce and suitable for field production.

**Harvest Recommendation:**

Harvest when flower heads are sized up and in colour.

**Post-Harvest Recommendation:**

Good-quality, clean water. No additional benefits from use of commercial floral solutions. Store at 3-4°C (36-41°F) if necessary for less than 7 days for best performance.

**Vase Life Recommendation:**

14-16 days



QIS Mixture



Flare Deep Blue



Flare Jade



Flare White



Flare Yellow



Flare Deep Rose

## DOUBLE-FLOWERED LISIANTHUS

*Eustoma grandiflorum*

### Flare Series F<sub>1</sub>

**Form Supplied As:** Pelleted

**Cultivation Type:**

Greenhouse, High Tunnel

**Planting Density:** 65 to 85 plants/sq. metre (6 to 8 plants/sq. foot).

**Usage:** Focal, Secondary

**Stem Length:**

36 to 45 in./91 to 114 cm

*(Group 1.5-2)*

Flare Lisianthus has medium, double flowers, with a top-flowering habit ideal for use in bouquets. The series has been bred and selected for reduced sensitivity to rosetting, resulting in less risk in production.

**Harvest Recommendation:**

Harvest when the first flower has fully opened.

**Post-Harvest Recommendation:**

Hydrate flowers with a floral hydration solution for one hour at room temperature. Store in a cooler at 2-5°C (36-41°F) in a commercial floral holding solution at the manufacturer's recommended rates.

**Vase Life Recommendation:**

10-14 days

### Can Can Series F<sub>1</sub>

**Form Supplied As:** Pelleted

**Cultivation Type:**

Greenhouse, High Tunnel

**Planting Density:** 65 to 85 plants/sq. metre (6 to 8 plants/sq. foot).

**Usage:** Focal, Secondary

**Stem Length:**

36 to 45 in./91 to 114 cm

*(Group 2-2.5)*

Can Can Lisianthus has medium, double flowers with a top-flowering habit ideal for use in bouquets. It is a group 2-2.5, later-flowering version of the popular Flare series, which is group 1.5-2.

**Harvest Recommendation:**

Harvest when the first flower has fully opened.

**Post-Harvest Recommendation:**

Hydrate flowers with a floral hydration solution for one hour at room temperature. Store in a cooler at 2-5°C (36-41°F) in a commercial floral holding solution at the manufacturer's recommended rates.

**Vase Life Recommendation:**

10-14 days



Can Can Purple



Can Can Carmine Rose



**NEW**

**2 Rose Improved**

DOUBLE-FLOWERED LISIANTHUS continued

**ABC™ Series F1**

**Form Supplied As:** Pelleted

**Cultivation Type:**

Greenhouse, High Tunnel

**Planting Density:** 65 to 85 plants/sq. metre (6 to 8 plants/sq. foot).

**Usage:** Focal

**Stem Length:**

36 to 45 in./91 to 114 cm

ABC Lisianthus have large double flowers and are ideally suited to tunnel and outdoor production. They have been bred and selected for reduced sensitivity to rosetting, resulting in less risk in production.

**Harvest Recommendation:**

Harvest when the first flower has fully opened.

**Post-Harvest Recommendation:**

Hydrate flowers with a floral hydration solution for one hour at room temperature. Store in a cooler at 2-5°C (36-41°F) in a commercial floral holding solution at the manufacturer's recommended rates.

**Vase Life Recommendation:**

10-14 days

**NEW 2 Purple Improved**

Upgraded for flower doubleness and stem and spray quality.

**NEW 2 Rose Improved**

Upgraded for a stronger colour, more double flowers, stronger stems and more buds in the spray.

**NEW 3 Yellow**

Our best yellow variety, with stronger stems, more buds in the spray, and more double flowers.



**1 Misty Blue**



**1 Yellow**



**1 Deep Rose**



**1 Green**



**1 Purple**



**1 Rose Rim**



**1 White**



2 Blue Rim



2 Lavender



2 Purple Improved



2 Misty Pink



2 Yellow



3 Rose



3 Yellow



2 Blue



2 Misty Blue



3 Purple



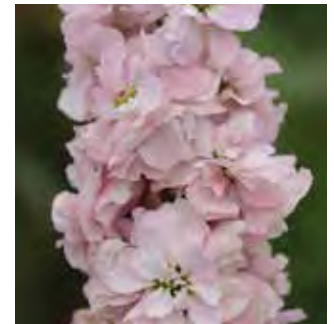
3 White



Vegmo Single Matricaria



Column Stock Apricot Matthiola



Column Stock Appleblossom Matthiola



Vegmo Snowball Extra Matricaria



Vegmo Sunny Ball Matricaria



Column Stock American Beauty Matthiola



Column Stock Ball Pink No 22 Matthiola



Xochi Orange Marigold

**MARIGOLD**  
*Tagetes erecta*

**Xochi™ Orange F1**

**Form Supplied As:** Coated

**Cultivation Type:** High Tunnel, Field  
**Planting Density:** 80 to 100 plants/sq. metre (8 to 10 plants/sq. foot).  
**Usage:** Focal, Secondary  
**Stem Length:** 24 to 36 in./61 to 91 cm  
**Bloom Size:** 3 to 4 in./8 to 10 cm

Strong stems and rich colour make Xochi Orange the best for bouquets and grower bunches. An excellent option for Summer and Fall cut flower programs, with uniformity, good shipability and durability.

**Harvest Recommendation:** For shipping, harvest flowers when blooms are at 7 cm (2.75 in.) in diameter. For local market, harvest stems when first flower is fully open.

**Post-Harvest Recommendation:** Take care when handling flowers to avoid snapping flower heads off of stems. Marigolds can be stored either wet or dry at 2-5°C (35-38°F). If storing wet, use a commercial floral holding solution.

**Vase Life Recommendation:** Marigolds have an excellent vase life of 10+ days.

**MATRICARIA**  
*Tanacetum parthenium*

**Vegmo Series**

**Form Supplied As:** Pelleted

**Cultivation Type:** Greenhouse, High Tunnel  
**Planting Density:** 72 to 80 plants/sq. metre (7 to 8 plants/sq. foot).  
**Usage:** Filler  
**Stem Length:** 28 to 36 in./71 to 91 cm

Fast year-round crop with good uniform stems. Popular filler flower with good post-harvest life.

**Harvest Recommendation:** Harvest when stem has 65-75% of flowers open.

**Post-Harvest Recommendation:** Use a holding solution for best performance.

**Vase Life Recommendation:** Vase life average 11 days.

Also available: **Yellow**

**TRADITIONAL FIELD-GROWN MATTHIOLA (STOCK)**  
*Matthiola incana*

**Column Stock Series**

**Form Supplied As:** Raw

**Cultivation Type:** Field  
**Planting Density:** 2.5 kg/hectare (2.2 lbs./acre).  
**Usage:** Line  
**Stem Length:** 24 to 30 in./61 to 76 cm

Column Stock will produce approximately 50% double-flowering plants. It is best suited for field production in mild climates.

**Harvest Recommendation:** Harvest when 3-5 florets have opened.

**Post-Harvest Recommendation:** Matthiola are sensitive to ethylene; it is recommended to treat with an ethylene-inhibiting product. Hydrate and store in a cooler at 1-3°C (34-38°F) in commercial floral holding solution at the manufacturer's recommended rates.

**Vase Life Recommendation:** 5-8 days



Column Stock Lilac Lavender



Column Stock Malmaison Pink



Column Stock Avalanche



Column Stock Miracle Mid-Blue



Column Stock Miracle Gold



Column Stock Miracle Crimson



Column Stock Miracle Yellow



Column Stock Pacific Blue



Column Stock Pink Sweetheart



Column Stock Purple Heart



Column Stock Rose Pink



Column Stock White Goddess



Column Stock Formula Mixture



**Katz Hi Double White**

**More usable stems**

**Katz Hi Double White** provides greater than 90% yield of usable double-flowered stems, and this top-selling colour also has flower quality to match current Katz White.



**Katz Apricot**



**Katz Blue**



**Katz Bright Rose**



**Katz Cherry Blossom**  
*ASCFG Fresh Cut Flower of the Year*

MATTHIOLA continued

**Katz Hi Double White**

**Form Supplied As:** Raw

**Cultivation Type:**  
High Tunnel, Field

**Planting Density:** 26 plants/  
sq. metre (12 plants/sq. foot).

**Usage:** Line

**Stem Length:** 32 in./81 cm

Katz Hi Double Matthiola will produce approximately 90% double-flowering plants. It requires less cold during bud formation, resulting in a more programmable series in warmer conditions.

**Harvest Recommendation:**  
Harvest when 3-5 florets have opened.

**Post-Harvest Recommendation:**  
Matthiola are sensitive to ethylene; it is recommended to treat with an ethylene-inhibiting product. Hydrate and store in a cooler at 1-3°C (34-38°F) in commercial floral holding solution at the manufacturer's recommended rates.

**Vase Life Recommendation:**  
5-8 days

**Katz Series**

**Form Supplied As:** Raw

**Cultivation Type:**  
High Tunnel, Field

**Planting Density:** 126 plants/  
sq. metre (12 plants/sq. foot).

**Usage:** Line

**Stem Length:** 32 in./81 cm

Katz Matthiola will produce approximately 50% double-flowering plants. It requires less cold during bud formation, resulting in a more programmable series in warmer conditions.

**Harvest Recommendation:**  
Harvest when 3-5 florets have opened.

**Post-Harvest Recommendation:**  
Matthiola are sensitive to ethylene; it is recommended to treat with an ethylene-inhibiting product. Hydrate and store in a cooler at 1-3°C (34-38°F) in commercial floral holding solution at the manufacturer's recommended rates.

**Vase Life Recommendation:**  
5-8 days

**Cherry Blossom** *ASCFG 2013  
Fresh Cut Flower of the Year!*



Katz Crimson



Katz Lavender Blue



Katz Pink



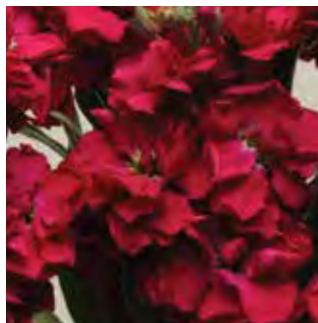
Katz Light Lavender



Katz Pink



Katz Purple



Katz Ruby US PVP 201200438



Katz White



Katz Yellow



Mathilda Pink Matthiola



Frosted Explosion Panicum



Mathilda Antique Rose Matthiola



Mathilda Blue Matthiola



Mathilda Lavender Matthiola



Mathilda Rose Matthiola



Mathilda White Matthiola



Mathilda Yellow Matthiola

**PROGRAMMABLE TUNNEL OR FIELD-GROWN MATTHIOLA (STOCK)**

**Mathilda™ Series**

**Form Supplied As:** Raw

**Cultivation Type:**

Greenhouse, High Tunnel

**Planting Density:** 64 plants/sq. metre (6 plants/sq. foot).

**Usage:** Line

**Stem Length:**

25 to 32 in./64 to 81 cm

Mathilda is a seedling selectable type matthiola, resulting in maximum yield. It is the newest breeding in this type and offers a highly uniform series for production under moderate temperatures and light levels.

**Harvest Recommendation:**

Harvest when 3-5 florets have opened.

**Post-Harvest Recommendation:**

Matthiola are sensitive to ethylene; it is recommended to treat with an ethylene-inhibiting product. Hydrate and store in a cooler at 1-3°C (34-38°F) in commercial floral holding solution at the manufacturer's recommended rates.

**Vase Life Recommendation:**

5-8 days

**Pink** Slightly taller than White and Yellow.

**Yellow** Offers the best selectable yellow variety, with consistent, uniform colour.

**PANICUM**

*Panicum capillare*

**Frosted Explosion**

**Form Supplied As:**

Multi-Seed Pellets

**Cultivation Type:**

Greenhouse, High Tunnel, Field

**Planting Density:** 25 to 32 plants/sq. metre (2 to 3 plants/sq. foot).

**Usage:** Filler

**Stem Length:**

24 to 30 in./61 to 76 cm

This easy-to-grow grass adds a delicate texture to any bouquet. Dries well. Facultative short-day flowering response; see [panamseed.com/cutflowers](http://panamseed.com/cutflowers) technical resources for key growing tips.

**Harvest Recommendation:**

Harvest stems when panicles are tufted green all the way to fully exploded and bronze tinged.

**Post-Harvest Recommendation:**

Use a sharp cut and place stems in a holding solution after harvest.

**Vase Life Recommendation:**

10-14 days

*First place winner, filler category at ProFlora 2019! ASCFG 2010 Dried Cut Flower of the Year!*



Appleblossom (2)



Bright Yellow (2)



Dark Orange (2)



Flamingo (1,2)



Lavender (1,2)

SERIES SELECTION FOR CREATING A HIGH-QUALITY YEAR-ROUND SNAPDRAGON PROGRAM		
Series	Group	Days, Light & Temperature
Potomac	4	Long days • High light • Greater than 16°C (60°F)
Monaco	3	Moderate days • Moderate light • 10-13°C (50-55°F)
Maryland	2	Short days • Moderate light • 10-13°C (50-55°F)
Cool	1	Short days • Low light • 7-10°C (40-50°F)

December 21-22 (Winter Solstice) • September 22-23 (Autumn Equinox)  
 June 20-22 (Summer Solstice) • March 20-21 (Vernal Equinox)



Red (1,2)

**SNAPDRAGON**  
*Antirrhinum majus*

**Maryland Series F1**

Form Supplied As: Raw

Cultivation Type:  
 Greenhouse, High Tunnel

Planting Density:  
 85 to 106 plants/sq. metre (8 to 10 plants/sq. foot).

Usage: Line

Stem Length:  
 39 to 60 in./99 to 152 cm

Maryland is a group 2 snapdragon best for short days, moderate light levels and temperatures of 10-13°C (50-55°F).

**Harvest Recommendation:** Harvest stems when 5-6 florets have opened. Keep snapdragons vertical after harvest to prevent stems from curling.

**Post-Harvest Recommendation:** Snapdragons are sensitive to ethylene; it is recommended to treat with an ethylene-inhibiting product after harvest. Hydrate and store in a cooler at 2-5°C (36-41°F) in commercial floral holding solution at the manufacturer's recommended rates. Always keep snapdragon stems vertical during storage.

**Vase Life Recommendation:** 7-10 days

Also available: Ivory (1,2)



Orange (1,2)



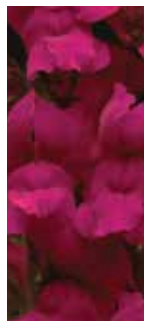
Plumblossom (2)



White (2)



Rose (1,2)



Royal (1,2)



Shell Pink (1,2)



True Pink (1,2)



Yosemite Pink (1,2)



Early Potomac White (3)



Early Potomac Orange (3)



Early Potomac Pink (3)



Early Potomac Rose (3)



Early Potomac Yellow (3)

## Snaps second to none

PanAmerican Seed is the world-leading supplier of F1 forcing snaps, with an unsurpassed choice of top-producing varieties selected for stem and flower quality, photoperiodic response and earliness to flower. With selections streamlined into 4 flowering response groups - including our popular Potomac family - you'll find it a "snap" to build an all-year program of successful growing.

SNAPDRAGON continued

### Early Potomac™ Series F1

**Form Supplied As:** Raw

**Cultivation Type:** Greenhouse, High Tunnel

**Planting Density:** 106 to 128 plants/sq. metre (10 to 12 plants/sq. foot).

**Usage:** Line  
**Stem Length:** 39 to 60 in./99 to 152 cm

Early Potomac is a group 3 snapdragon best for moderate daylength, moderate to high light levels and temperatures of 13-16°C (55-60°F).

**Harvest Recommendation:** Harvest stems when 5-6 florets have opened. Keep snapdragons vertical after harvest to prevent stems from curling.

**Post-Harvest Recommendation:** Snapdragons are sensitive to ethylene; it is recommended to treat with an ethylene-inhibiting product after harvest. Hydrate and store in a cooler at 2-5°C (36-41°F) in commercial floral holding solution at the manufacturer's recommended rates. Always keep snapdragon stems vertical during storage.

**Vase Life Recommendation:** 7-10 days

### Potomac™ Series F1

**Form Supplied As:** Raw

**Cultivation Type:** Greenhouse, High Tunnel, Field

**Planting Density:** 106 to 128 plants/sq. metre (10 to 12 plants/sq. foot).

**Usage:** Line, Secondary  
**Stem Length:** 39 to 60 in./99 to 152 cm

Potomac is a group 4 snapdragon best for long days, high light and temperatures greater than 16°C (60°F).

**Harvest Recommendation:** Harvest stems when 5-6 florets have opened. Keep snapdragons vertical after harvest to prevent stems from curling.

**Post-Harvest Recommendation:** Snapdragons are sensitive to ethylene; it is recommended to treat with an ethylene-inhibiting product after harvest. Hydrate and store in a cooler at 2-5°C (36-41°F) in commercial floral holding solution at the manufacturer's recommended rates. Always keep snapdragon stems vertical during storage.

**Vase Life Recommendation:** 7-10 days

**Appleblossom**  
White and rose bicolor.

**Ivory White**  
White with yellow bee.

**NEW Plumblossom**  
In-demand colour shares all the features that have made Potomac the top series in snapdragons.



**Potomac Appleblossom (3,4) ASCFG**  
Fresh Cut Flower of the Year



**Potomac Cherry Rose (3,4)**



**Potomac Plumblossom (3,4)**



**Potomac Dark Pink (4)**



**Potomac Crimson (3,4)**



**Potomac Dark Orange (3,4)**



**Potomac Ivory White (3,4)**



**Potomac Lavender (3,4)**



**Potomac Orange (3,4)**



**Potomac Pink (3,4)**



**Potomac Red (3,4)**



**Potomac Royal (3,4)**



**Potomac White (3,4)**



**Potomac Yellow (3,4)**



White (2,3)



Orange (2,3)



Red (2,3)



Yellow (2,3)



Rose (2,3)



Violet (2,3)



Yellow (2,3)

SNAPDRAGON continued

**Monaco Series F1**

**Form Supplied As:** Raw

**Cultivation Type:**

Greenhouse, High Tunnel

**Planting Density:**

80 to 106 plants/sq. metre  
(8 to 10 plants/sq. foot).

**Usage:** Line

**Stem Length:**

32 to 60 in./81 to 152 cm

Monaco is a group 3 snapdragon best for moderate daylength, moderate light levels and temperatures of 10-13°C (50-55°F).

**Harvest Recommendation:**

Harvest stems when 5-6 florets have opened. Keep snapdragons vertical after harvest to prevent stems from curling.

**Post-Harvest Recommendation:**

Snapdragons are sensitive to ethylene; it is recommended to treat with an ethylene-inhibiting product after harvest. Hydrate and store in a cooler at 2-5°C (36-41°F) in commercial floral holding solution at the manufacturer's recommended rates. Always keep snapdragon stems vertical during storage.

**Vase Life Recommendation:**

7-10 days



Cool Crimson Snapdragon (1,2)



Cool Pink Snapdragon (1,2)



Cool Rose Snapdragon (1,2)



Cool Yellow Snapdragon (1,2)



Cool Orange Snapdragon (1,2)



Cool White Snapdragon (1,2)

**Cool Series F1**

Form Supplied As: Raw

Cultivation Type:

Greenhouse, High Tunnel

Planting Density: 85 to 106 plants/sq. metre (8 to 10 plants/sq. foot).

Usage: Line

Stem Length:

39 to 60 in./99 to 152 cm

Cool is a group 1 snapdragon best for short daylength, low light intensity and temperatures of 7-10°C (40-50°F).

**Harvest Recommendation:**

Harvest stems when 5-6 florets have opened. Keep snapdragons vertical after harvest to prevent stems from curling.

**Post-Harvest Recommendation:**

Snapdragons are sensitive to ethylene; it is recommended to treat with an ethylene-inhibiting product after harvest. Hydrate and store in a cooler at 2-5°C (36-41°F) in commercial floral holding solution at the manufacturer's recommended rates. Always keep snapdragon stems vertical during storage.

**Vase Life Recommendation:**

7-10 days

**TRACHELIUM**

*Trachelium caeruleum*

**Lake Series**

Form Supplied As: Pelleted

Cultivation Type: Greenhouse

Planting Density: 65 plants/sq. metre (6 plants/sq. foot) without pinch; 24 plants/sq. metre (2 plants/sq. foot) with pinch.

Usage: Filler

Stem Length:

30 to 42 in./76 to 107 cm

The Lake collection from seed offers simplified ordering and production. Lake varieties produce large central flower umbels with small satellites. See technical resources at [panamseed.com/cutflowers](http://panamseed.com/cutflowers) for daylength requirement.

**Harvest Recommendation:**

Harvest stems when half or more of florets are open.

**Post-Harvest Recommendation:**

Clear water or a holding solution are preferred. Store at 4°C (40°F). Avoid exposure to ethylene, and use of an ethylene-inhibiting treatment is recommended.

**Vase Life Recommendation:**

Vase life average 11 days. Extended cold storage will decrease vase life.



Lake Forest Purple Trachelium



Lake Michigan White Trachelium



Lake Michigan Blue Trachelium



Lake Michigan Purple Trachelium



Lake Michigan Violet Trachelium



# VEGETABLES & HERBS



**Ockert Greyvenstein**  
(Regional Breeding Director)



**BASKET BITES**

This selection includes vegetables that have a **mounding/trailing** habit that looks fantastic and performs well in a **hanging basket** on a porch or balcony, and that provide loads of fresh fruit.

CUCUMBER	
Patio Snacker F1	194
Quick Snack	213
PEPPER	
Pot-a-peño F1	197
TOMATO	
Topsy Tom F1	201
STRAWBERRY	
Fresca	207



Quick Snack Cucumber



**PATIO PICKS**

Compact varieties that are **easy to grow** and **highly productive**. They quickly fill 8-in./20-cm and larger containers for **massive appeal** on patios and entryways.

CUCUMBER	
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EGGPLANT	
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Hansel F1	195
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Candy Cane Red F1	198
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City Garden Mixture	211
Global Gourmet Mixture	211
Kale Storm Mixture	211
Summer Picnic Mixture	211

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Oregano	210
Rosemary	210
Thyme	210
Try Basil	210



Little Bing Tomato



**GROUND  
BREAKERS**

This is our largest assortment and includes **farm and garden-performing stars**, sturdy hybrids, tasty fruit and good disease resistance.



**KITCHEN  
MINIS™**

Explore our collection of compact tabletop vegetables and herbs that **grow best indoors** on a counter or a sunny windowsill. Consumers will love harvesting their own fresh produce.

CUCUMBER	
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Bonsai Basil	213



Lemon Sun Squash



Bonsai Basil



Martini






GherKing



Patio Snacker

**CUCUMBER** ●  
*Cucumis sativus*

Seed supplied as: Raw

Name	Type	Fruit characteristics	Days to maturity from direct seed	Fruit size	Flower type	Disease resistance	Comments
<b>GherKing F1</b> 	European pickler	Dark green skin, highly spined	55-60	3-5 in./ 8-13 cm long	Gynoecious, parthenocarpic	HR: CMV, S IR: DM, PM	Early, large yields of bitter-free fruit; won't become bitter if left on the vine. Great for high-tunnel production and gardens lacking pollinators; vigorous vines are best when trellised. Cylindrical, dark green gherkins with white spines are perfect for pickling and fresh eating. Best in-ground.
<b>Martini F1</b> 	American slicer	White skin, slightly spined	55-60	5-6 in./ 13-15 cm long x 1.5-2 in./ 4-5 cm wide	Monoecious	IR: PM	Features non-yellowing, white exterior and earlier yields. Very tender, "no peel" skin if harvested at 5 to 6 in./ 13 to 15 cm length, with white, bitter-free interior that is very sweet and crunchy. Staying power in the heat of Summer. Best in-ground.
<b>Patio Snacker F1</b> 	American slicer	Medium green skin, moderately spined	50-55	6-8 in./ 15-20 cm long x 1.5-2 in./ 4-5 cm wide	Monoecious, parthenocarpic		Controlled yet vigorous variety produces short, branching vines. Fruit has good flavour, crunchy texture and non-bitter peel. High-yielding with continuous harvest. Great for large containers with a small trellis; works well in pack/pot programs.

Disease terminology: HR = High Resistance, IR = Intermediate Resistance

Disease codes: CMV-1 - Cucumber Mosaic Virus Race 1, DM - Downy Mildew, PM - Powdery Mildew, S - Scab

Flower Type: Gynoecious - predominantly female flowers, Monoecious - plants contain both male and female flowers,

Parthenocarpic - plant has the ability to set fruit without pollination



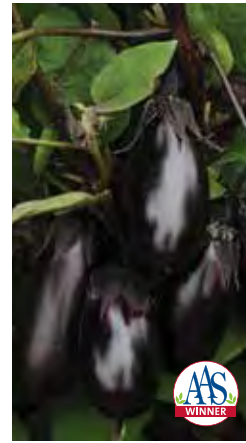
**Fairy Tale**  
All-America Selections Winner



**Gretel**  
All-America Selections Winner



**Hansel**  
All-America Selections Winner



**Patio Baby**  
All-America Selections Winner








**Violet Delite**

**EGGPLANT** 🌱

*Solanum melongena*

Seed supplied as: Raw

Name	Days to maturity from transplant	Fruit size	Fruit characteristics	Calyx colour	Plant habit	Comments
<b>Fairy Tale F1</b> 	50-55	1-2 in./3-5 cm long (baby size)  2-6 in./5-15 cm long (full size)	Striped purple and white, elongated	Green	Upright, semi-spineless	Early-maturing, highly productive variety produces clusters of attractive white fruit with violet/purple stripes. Elongated tear-drop shaped fruit are sweet and non-bitter, with a tender skin and few seeds. Fruit can be harvested when very small or left on the plant until fully mature. Petite plant habit between 18 to 24 in. (46 to 61 cm) is perfect for growing in containers or small-space gardens, with or without support. <i>All-America Selections National Winner.</i>
<b>Gretel F1</b> 	55-60	3-4 in./8-10 cm long (baby size)  4-6 in./10-15 cm long (full size)	White, elongated	Green	Upright, semi-spineless	Earliest white eggplant is highly productive, producing clusters of glossy mini-fruit that are tender and non-bitter. Indeterminate, 3-ft. (91-cm) plants can be grown in-ground or in large containers, with or without support. More productive and 5 to 7 days earlier to ripen than O.P. types. Slightly larger plant with slightly smaller fruit than Hansel. <i>All-America Selections National Winner.</i>
<b>Hansel F1</b> 	50-55	2-3 in./5-8 cm long (baby size)  6-10 in./15-25 cm long (full size)	Black-purple, elongated	Green	Upright, semi-spineless	Early-maturing, highly productive variety produces clusters of glossy, black-purple eggplants. Non-bitter, tender fruit can be used in many culinary recipes. Like white Gretel, the petite, 3-ft. (91-cm) plants can be grown in-ground or in large containers, with or without support. <i>All-America Selections National Winner.</i>
<b>Patio Baby F1</b> 	40-45	2-3 in./5-8 cm long (baby size)	Purple, egg	Green	Compact, spineless	Unique, high-yielding, compact variety produces baby-size eggplants very early, and continues producing throughout the season. Fits well into retail patio programs. Best in-ground and in containers. <i>All-America Selections Regional Winner.</i>
<b>Violet Delite F1</b> 	50-55	5-7 in./13-18 cm long (baby size)  9-12 in./23-30 cm long (full size)	Bright purple, elongated	Green and Black	Upright, semi-spineless	Slender, elongated eggplants are glossy with bright purple skin and white, tender, non-bitter flesh. Fruit can be sliced lengthwise for grilling or lightly frying, and tender skin does not need to be peeled. Sliced or diced fruit is great for a stir-fry or curry; its non-bitter flavour and tender texture will complement any sauce. Plants are upright and semi-spineless, so they are very easy and painless to harvest. Great in an in-ground garden or large container.



**Aji Rico** All-America Selections Winner



**Cajun Belle**  
All-America Selections Winner



**Golden Cayenne**



**La Bomba II Jalapeño**



**Mad Hatter** All-America Selections Winner

PEPPER ●

Seed supplied as: Raw

Name	Days to maturity from transplant	Fruit characteristics	Plant habit	Disease resistance	Comments
<b>HOT</b>					
<b>Aji Rico F1</b> <i>Capsicum baccatum</i> 	70-75 to full ripe, 50-55 to green	Conical, green to red 3-4 in./8-10 cm long x 1.25-1.75 in./3-4 cm wide	Extra large, vigorous		Unique, hybrid hot pepper has more vigour, higher yield and earlier ripening than O.P. heirlooms. Narrow, conical fruit with delicate citrus flavour and medium heat is crispy and thin-walled - perfect fresh or cooked, green or red. Best in-ground; large indeterminate plants benefit from a support. <b>Also available as organic seed.</b>
<b>Cajun Belle</b> <i>Capsicum annuum</i> 	60-65 to full ripe, 45-50 to green	Mini bell, green to red 2-3 in./5-8 cm long x 2-3 in./5-8 cm wide	Medium		Produces bell peppers with mildly spicy taste just right for fresh eating and salsa. Harvest green or red. Best in-ground and in containers. <i>All-America Selections Winner.</i>
<b>Golden Cayenne</b> <i>Capsicum annuum</i> 	85-90 to full ripe, 70-75 to green	Cayenne, green to yellow 3-5 in./8-13 cm long x 0.5-0.75 in./1-2 cm wide	Bush, medium		Cayenne-shaped fruit will mature from green to golden yellow and increase in heat as they ripen. Golden Cayenne fruit are excellent for cooking or fresh eating in salsa and sauces, or dried and ground into a unique, golden yellow powder. Compact bush plant performs well in medium-sized containers or in-ground, with or without support.
<b>La Bomba II F1</b> <i>Capsicum annuum</i> 	65-70 to full ripe, 50-55 to green	Jalapeño, green to red 3-3.25 in./8 cm long x 1-1.15 in./3 cm wide	Tall	HR: BLS 1-3, TMV	Upgraded for superior disease resistance. Bears very large, high-quality jalapeños with little to no checking. Best in containers or in-ground.
<b>Mad Hatter F1</b> <i>Capsicum baccatum</i> 	85-90 to full ripe, 65-70 to green	Unique disc, green to red 2-3.5 in./5-9 cm long x 2-2.5 in./5-6 cm wide	Extra large, vigorous		Flat-disc peppers are crunchy and crisp, with a delicate floral scent and rich flavour that intensifies/sweetens as it matures. In hot, dry climates, a small number of fruit will have a touch of heat close to the seed cavity, but fruit wings are always sweet. Best in-ground with support. <i>All-America Selections National Winner.</i>



**Pot-a-peño** All-America Selections Winner



**Primero Red Habanero**



**Sweet Heat**

Name	Days to maturity from transplant	Fruit characteristics	Plant habit	Disease resistance	Comments
<b>HOT</b>					
<b>Pot-a-peño F1</b> <i>Capsicum annuum</i> )) 	60-65 to full ripe, 45-50 to green	Jalapeño, green to red 3-4 in./8-10 cm long x 0.75-1.25 in./2-3 cm wide	Bush, compact, medium		Pot-a-peño's unique compact habit is perfect for patio containers. Early maturing means this will be one of the first peppers to fruit in the garden. Tons of jalapeño fruit grow under a dense canopy of small, dark green leaves. Harvest fruit green for a traditional spicy zip in any dish or allow to ripen to red for a sweet, spicy flavour. <i>All-America Selections Regional Winner, Great Lakes, West/Northwest.</i>
<b>Primero Red F1</b> <i>Capsicum chinense</i> )))) 	75-80 to full ripe, 60-65 to green	Habanero, green to red 2.75-3.5 in./7-9 cm long x 1.25-1.5 in./3-4 cm wide	Large, vigorous	IR: TSWV	One of the earliest ripening habaneros on the market, with fruit ready to harvest as early as bell peppers. Produces huge yields of fruit larger than other standard habaneros, with just about one-third the heat. Early flowering - can be sold in large pots with flowers and immature fruit. Best in containers or in-ground.
<b>Sweet Heat F1</b> <i>Capsicum annuum</i> ) 	55-60 to full ripe, 40-45 to green	Snack, green to red 3.5-4 in./9-10 cm long x 1.25-1.75 in./3-4 cm wide	Compact		One of the earliest peppers to bear fruit! Compact, bushy plants let you ship or sell larger containers with developing fruit. Sweet and mildly spicy peppers can be harvested green or red. Best in containers or in-ground.

) = mild    )) = mildly hot    ))) = medium hot    )))) = hot    ))))) = extra hot

Disease terminology: HR = High Resistance, IR = Intermediate Resistance  
 Disease codes: BLS - Bacterial Leaf Spot, TMV - Tobacco Mosaic Virus, TSWV - Tomato Spotted Wilt Virus



Candy Cane Chocolate Cherry



Candy Cane Red










**NEW**  
KickStart



Prism



Peppi Corrossimo

Name	Days to maturity from transplant	Fruit characteristics	Plant habit	Disease resistance	Comments
<b>SWEET</b>					
<b>Candy Cane Chocolate Cherry F1</b> <i>Capsicum annuum</i>  	70-75 to full ripe, 55-60 to green	Mini bell, green/white stripe to chocolate/red stripe 3.5-3.75 in./9-10 cm long x 2.5-2.75 in./6-7 cm wide, 3.5-4.5 oz. (99 to 128 g)	Medium		Mini bell pepper plant has unique, eye-catching variegated foliage. Early-maturing fruit ripens from green and white stripes to unique chocolate and cherry red stripes. Sweet flavour and crisp texture make it perfect for fresh eating at any stage of ripeness. Best in containers or in-ground, with or without support.
<b>Candy Cane Red F1</b> <i>Capsicum annuum</i>  	60-65 to full ripe, 40-45 to green	Snack, green/white stripe to red 3.5-4 in./9-10 cm long x 1.25-1.75 in./3-4 cm wide	Medium		Snack pepper has unique, eye-catching variegated foliage, plus fruit that ripens from green striped to solid red. Sweet flavour, thin walls, crispy texture. Perfect for fresh eating at any stage of ripeness. Best in containers or in-ground, with or without support.
<b>NEW KickStart™ F1</b> <i>Capsicum annuum</i> 	70-75 to full ripe, 50-55 to green	Bell, green to red 3.5 in./9 cm long x 3.25 in./8 cm wide, 8-9 oz. (227 to 255 g)	Upright	HR: BLS 0-3, 7, 8	Upright plants produce high yields of bright red, medium-to-large, blocky bell peppers that are early to mature. Produces professional-quality fruit and performs well in-ground. Fruit are the perfect shape for stuffing or chopping and have a sweet flavour.
<b>Prism F1</b> <i>Capsicum annuum</i>  	75-80 to full ripe, 60-65 to green	Midi bell, light green to red 2-2.5 in./5-6 cm long x 2.25-2.5 in./6 cm wide, 2.25-2.75 oz. (64 to 78 g)	Tall, upright	HR: BLS 0-3, 7, 8	Sweet midi bell matures from light green to orange, and then to red. Can be harvested at all stages of maturity for a multicoloured "mix" on each plant. Midi bell size is perfect for stuffed peppers, eating fresh in salads and recipes that call for a small portion of bell pepper. Early maturing and highly productive.

Disease terminology: HR = High Resistance, IR = Intermediate Resistance  
 Disease codes: EB - Early Blight, F1- Fusarium Race 1, F2 - Fusarium Race 2, LB - Late Blight, LM - Leaf Mold,  
 N - Nematodes, SLS - Septoria Leaf Spot, TMV - Tobacco Mosaic Virus, ToMV - Tomato Mosaic Virus, V - Verticillium  
 Growth: CD - Compact Determinate, CI - Compact Indeterminate, D - Determinate, I - Indeterminate, SD - Semi-determinate



PeppiGrande Red



Peppi Red








Peppi Yellow



Snackabelle Red



Trailblazer

Name	Days to maturity from transplant	Fruit characteristics	Plant habit	Disease resistance	Comments
<b>SWEET</b>					
<b>Peppi Cornissimo F1</b> <i>Capsicum annuum</i> 	95-100 to full ripe, 80-85 to green	Corno, green to red 6-7 in./15-18 cm long x 2.25-2.5 in./6 cm wide, 4-4.5 oz. (113 to 128 g)	Large, tall, vigorous		Extra-large corno-shaped fruit ripens from green to red, with outstanding thick walls, rich flavour and more sweetness than most large-fruited peppers. Fruit is often seedless, for less preparation time for chopping and cooking. Great on the grill or stuffed and baked in the oven. To produce seedless fruit, grow it in isolation from other (non-seedless) pepper varieties. Best grown in-ground with support of stakes or a cage.
<b>PeppiGrande Red F1</b> <i>Capsicum annuum</i> 	80-85 to full ripe, 60-65 to green	Corno, green to red 5-6 in./13-15 cm long x 1.5-2 in./4-5 cm wide, 2.5-3.5 oz. (71 to 99 g)	Large, tall, vigorous		Corno-shaped pepper has outstanding crisp texture, rich flavour and more sweetness than large-fruited peppers. Fruit is often seedless, which means less preparation time for chopping and cooking; great on the grill or baked stuffed with cheese. To produce seedless fruit, grow it in isolation from other (non-seedless) pepper varieties. Best grown in-ground with support of stakes or a cage.
<b>Peppi Red &amp; Yellow F1</b> <i>Capsicum annuum</i> 	75-80 to full ripe, 55-60 to green	Red: Snack, green to red Yellow: Snack, green to yellow  3.5-4.5 in./9-11 cm long x 1.25-1.75 in./3-4 cm wide, 1-2 oz. (28 to 57 g)	Large, tall, vigorous		These small, pointed fruits offer incredible sweetness and rich flavour. The fruit are often seedless and are great for snacking fresh off the plant. To produce seedless fruit, grow it in isolation from other (non-seedless) pepper varieties. Best grown in-ground with support of stakes or a cage.
<b>Snackabelle Red F1</b> <i>Capsicum annuum</i> 	70-75 to full ripe, 55-60 to green	Mini bell, green to red 2-2.25 in./5-6 cm long x 2-2.25 in./5-6 cm wide, 1-2 oz. (28 to 57 g)	Compact	HR: BLS 0-3, 7, 8, TMV	Thick-walled, blunt-end peppers have rich, sweet flavour great for fresh eating from green to red, and hold up well through grilling and stuffing. "Easy-out" stem and seeds - simply push down or cut around cap to release seed cavity for quick cleaning. Best in containers or in-ground.
<b>Trailblazer F1</b> <i>Capsicum annuum</i> 	70-75 to full ripe, 50-55 to green	Bell, green to yellow 3.5-3.75 in./9-10 cm long x 3.25-3.5 in./8-9 cm wide, 8-9 oz. (227 to 255 g)	Tall, upright	HR: BLS 0-3, 7, 8	Tall, upright plants yield early-maturing, vibrant yellow, medium-to-large, blocky bell peppers. Holds its yellow colour longer, so it is slower to turn gold/orange. Three to four-lobed fruit is perfect for stuffing. Sweet, bright flavour and thick-walled fruit add crunch to salads.



Artemis



Chocolate Sprinkles



Helix








Micro Tom



Little Bing

**TOMATO** ●  
*Solanum lycopersicum*

Seed supplied as: Raw

Name	Days to maturity from transplant	Fruit characteristics	Growth	Disease resistance	Comments
<b>CHERRY</b>					
<b>Artemis F1</b> 	50-55	Round, medium, red 1-1.3 in./3 cm long x 1 in./3 cm wide, 0.3-0.5 oz. (9 to 14 g)	I	HR: LM, N, TMV, ToMV	One bite of these super-sweet, rich, red cherry tomatoes will have you craving more. The unique, crisp, firm texture is great in a salad or for sauce. High disease resistance to root-zone and foliar disease will ensure excellent plant health. Best grown in-ground, including high tunnels.
<b>Chocolate Sprinkles F1</b> 	50-55	Elongated, medium, dark red with green stripes 1.5 in./4 cm long x 1 in./3 cm wide	I	HR: F1, N	First in this type with a disease-resistance package. Unique dark red with green stripe exterior and purple flesh colour. Produces more fruit with better flavour than similar O.P. varieties. Best in-ground. <b>Also available as organic seed.</b>
<b>Helix F1</b> 	50-55	Elongated, medium, bright red 1-1.4 in./3-4 cm long x 1 in./3 cm wide, 0.3-0.5 oz. (9 to 14 g)	I	HR: LB, N, TMV, ToMV	Experience the taste of Summer with a perfect balance of sweet and acid from Helix red cherry tomato. With early-ripening fruit and high yields, Helix is perfect for fresh eating. High resistance to root-zone and foliar diseases, including late blight resistance, will help ensure excellent plant health. Best grown in-ground.
<b>Little Bing F1</b> 	60-65	Round, medium, red 1 in./3 cm long	CD	HR: F2, V	Part of the Little collection of dwarf determinate varieties. Fruit sets and ripens over a period of a few weeks, allowing harvest of many tomatoes at one time. Yields large amounts of flavour-filled, red cherry tomatoes for fresh eating or to add to recipes. Best in containers, with or without support.
<b>Micro Tom</b> 	50	Round, small, red 0.5-0.75 in./1-2 cm long	CD		Novelty variety produces an extremely dwarf plant covered with sweet fruit. Well-suited to 3 to 4-in./8 to 10-cm pot production. Best in containers. <i>Medal of Excellence Best Program.</i>



**Midnight Snack**  
All-America Selections Winner



**Orange Zinger**



**Sugar Rush**



**Topsy Tom**



**Tidy Treats**

Name	Days to maturity from transplant	Fruit characteristics	Growth	Disease resistance	Comments
<b>CHERRY</b>					
<b>Midnight Snack F1</b> 	65-70	Round, medium, red with black overlay 1.5 in./4 cm long	I		Unique cherry tomato ripens red with an overlay of glossy black-purple on the skin when exposed to sunlight due to the accumulation of anthocyanin pigment. Productive all season, yielding fruit that is well balanced and flavourful. Great in salads or eaten straight off the plant. Best in-ground, grown with support. <i>All-America Selections National Winner.</i>
<b>Orange Zinger F1</b> 	60-65	Round, large, dark orange 1.5-2 in./4-5 cm long	I	HR: F1	The high-quality, crack-resistant, tasty, dark orange tomatoes have big tomato flavour with a balance of sweet and tangy. Best in-ground.
<b>Sugar Rush F1</b> 	50-55	Elongated, medium, red 0.75-1.25 in./2-3 cm long x 0.5-1 in./1-3 cm wide	I	HR: F1	Super-sweet elongated fruit has one of the highest Brix ratings of this type. Fast-maturing and very productive all season; produces long trusses of fruit with great flavour and texture. Best in-ground.
<b>Tidy Treats F1</b> 	50-55	Round, small, red 0.75-1 in./2-3 cm long	CI	HR: F1, V	Tons of fruit power on a compact plant! Good in small-space gardens and containers, but unlike other patio types, Tidy Treats continues to produce red cherry tomatoes all season. Habit stays compact like a determinate but produces like an indeterminate. Best in containers or in-ground, grown with support.
<b>Topsy Tom F1</b> 	50-55	Round, medium, red 1 in./3 cm long x 1.25 in./3 cm wide	SD	IR: EB, F1, LM, SLS	Perfect for "upside down" and traditional planters. Compact/mounded. Pliable stems ship well, hold abundant fruit, won't break in wind. Continues to put out branches with many trusses of split-resistant, sweet fruit.

Disease terminology: HR = High Resistance, IR = Intermediate Resistance  
 Disease codes: EB - Early Blight, F1 - Fusarium Race 1, F2 - Fusarium Race 2, LB - Late Blight, LM - Leaf Mold,  
 N - Nematodes, SLS - Septoria Leaf Spot, TMV - Tobacco Mosaic Virus, ToMV - Tomato Mosaic Virus, V - Verticillium  
 Growth: CD - Compact Determinate, CI - Compact Indeterminate, D - Determinate, I - Indeterminate, SD - Semi-determinate






**Candyland Red** (Fruit shown actual size)  
All-America Selections Winner



**Marzito**



**Sun Dipper**

Name	Days to maturity from transplant	Fruit characteristics	Growth	Disease resistance	Comments
<b>CURRENT</b>					
<b>Candyland Red</b> 	55-60	Round, small, red 0.5 in./1 cm long x 0.5 in./1 cm wide	I		Stays compact and tidy, so it won't take over like other sprawling currants; easy to grow and earlier, too. Branched trusses make for accessible harvest and fruits detach without damage for more usable fruit. Very high yields of tiny, red fruit deliver very sweet flavour. Best in-ground. <i>All-America Selections National Winner.</i>
<b>SPECIALTY SMALL-FRUITED</b>					
<b>Marzito F1</b> 	50-55	Elongated, mini marzano, red 2-2.25 in./5-6 cm long x 0.5-0.75 in./1-2 cm wide	I	HR: F1, LM, N, TMV, ToMV	Versatile and perfect for all occasions - eating fresh off the vine or cooking up in a quick sauce. The elongated shape is reminiscent of a small Roma tomato, which is great for cooking. The firm texture and sweet, rich flavour mean it can be eaten fresh like cherry and grape tomatoes. Great disease resistance, too! Resistant to leaf mold, Fusarium, nematodes and tobacco mosaic virus. Best grown in-ground, including high tunnels.
<b>Sun Dipper F1</b> 	60-65	Elongated, pointed, orange 2-2.5 in./5-6 cm long x 0.5-0.7 in./1-2 cm wide	I	HR: F1, N, TMV	Sun Dipper is an orange "dipper" tomato with elongated fruit that is easily held between your thumb and fingers for dipping into dressing on a vegetable platter. This unique elongated fruit shape is eye-catching and delicious, and it's perfect for differentiating vegetable programs at retail. Performs well in field production as well as high tunnels. Prune plant to 1 to 2 leaders to increase fruit size up to 3 to 4 in. (8 to 10 cm) long.

Disease terminology: HR = High Resistance, IR = Intermediate Resistance

Disease codes: EB - Early Blight, F1- Fusarium Race 1, F2 - Fusarium Race 2, F3 - Fusarium Race 3, LB - Late Blight, LM - Leaf Mold, N - Nematodes, SLS - Septoria Leaf Spot, TMV - Tobacco Mosaic Virus, ToMV - Tomato Mosaic Virus, V - Verticillium

Growth: CD - Compact Determinate, CI - Compact Indeterminate, D - Determinate, I - Indeterminate, SD - Semi-determinate



**BlushingStar**

**TOMATO** ●  
*Solanum lycopersicum*

Seed supplied as: Raw







**DarkStar**



**WonderStar Pink**



**WonderStar Red**

Name	Days to maturity from transplant	Fruit characteristics	Growth	Disease resistance	Comments
<b>BEEFSTEAK</b>					
<b>BlushingStar F1</b> 	70-75	Oblate, ribbed, pink 2.25-2.5 in./6 cm long x 3.75-4 in./10 cm wide, 12-16 oz. (340 to 454 g)	I	HR: LB, SLS	Upgrade your garden with heirloom tomato flavour and modern hybrid tomato performance. Early-maturing, pink beefsteak fruit are sweet and savoury, with higher yield potential and fewer blemishes than most heirlooms. Large, pink beefsteak fruit are perfect for eating fresh on a sandwich or preserving in sauce. Offers disease resistance to late blight and septoria leaf spot. Best grown in the ground with support of a trellis or cage.
<b>DarkStar F1</b> 	70-75	Oblate, ribbed, purple 2-2.25 in./5-6 cm long x 3-3.25 in./8 cm wide, 8-10 oz. (227 to 283 g)	I	HR: LB, V	Upgrade your garden with heirloom tomato flavour and modern hybrid tomato performance. Early-maturing, rich, purple beefsteak fruit has higher yield potential and fewer blemishes than most heirlooms. Large, purple beefsteak fruit is perfect for eating fresh on a sandwich or for preserving in sauce. Offers high disease resistance to late blight. Best grown in the ground with support of a trellis or cage.
<b>NEW</b> <b>WonderStar™ Pink F1</b> 	60-65	Oblate, large, pink 2.5 in./6 cm long x 3.5 in./9 cm wide, 8-10 oz. (227 to 283 g)	D	IR: F1, LB, SLS, V	An early-maturing, determinate hybrid that features heirloom-style, bright pink fruit with great flavour. Offers disease resistance to late blight and septoria leaf spot. It also has a compact habit and performs well in small spaces.
<b>WonderStar™ Red F1</b> 	60-65	Oblate, pleated, bright red 2.5 in./6 cm long x 3.25 in./8 cm wide, 8-10 oz. (227 to 283 g)	D	HR: F1, LB, SLS, V	Flavourful, ribbed beefsteak fruit is great for fresh eating on sandwiches and salads, and incorporated into cooked dishes. Plants produce early-maturing, bright red fruit with excellent flavour. Determinate plant habit means high yields in a short period of time. Offers disease resistance to late blight.

**Heirloom flavour and higher yields**

We trialed and selected, crossed, tested and evaluated hundreds of heirloom varieties to create our Heirloom Marriage™ collection. Our hybrid tomatoes offer much higher yields and earlier maturity than their parents, plus all of the great flavour and less fruit blemishes.



**Heirloom Marriage Big Brandy**



**Heirloom Marriage Cherokee Carbon**



**Bellatrix**








**Heirloom Marriage Genuine**



**Little Napoli**

**TOMATO** 🟡  
*Solanum lycopersicum*

Seed supplied as: Raw

Name	Days to maturity from transplant	Fruit characteristics	Growth	Comments	
<b>HEIRLOOM MARRIAGE™ COLLECTION</b>					
<b>Big Brandy F1</b> 	75-80	Beefsteak, pink 12-15 oz. (340 to 425 g)	I	Big, pink fruit with outstanding flavour is a cross of Big Dwarf and Brandywine. Best in-ground.	
<b>Cherokee Carbon F1</b> 	75-80	Beefsteak, purple 10-12 oz. (283 to 340 g)	I	Robust purple beefsteak with rich flavour. A cross of Cherokee Purple and Carbon. Best in-ground. <b>Also available as organic seed.</b>	
<b>Genuine F1</b> 	70-75	Slicer, red 10.5-11.5 oz. (298 to 326 g)	I	Big red slicer tomato is a cross of Costoluto Genovese and Brandywine. Ready to harvest 12 to 19 days earlier than Brandywine! Best in-ground.	
Name	Days to maturity from transplant	Fruit characteristics	Growth	Disease resistance	Comments
<b>ROMA</b>					
<b>Bellatrix F1</b> 	65-70	Oval, red 2.75-3 in./7-8 cm long x 2-2.25 in./5-6 cm wide, 4.5-5 oz. (128 to 142 g)	D	HR: F2, F3, LB, TMV, ToMV	Bellatrix has high resistance to late blight, a common disease of tomato plants. It also has resistance to Fusarium, a common root zone disease. Red Roma/paste tomatoes ripen in a short period of time, allowing for a large harvest for cooking sauce or making salsa. Best grown in the ground or in a large container, with or without support of a trellis or cage.
<b>Little Napoli F1</b> 	60-65	Round, red 2-2.5 oz. (57 to 71 g)	CD	HR: F1, V	One of the only patio Romas, it features disease resistance for better garden success. High yields for such a small plant; enough can be harvested at one time for a batch of salsa or sauce. Best in containers.

Disease terminology: HR = High Resistance, IR = Intermediate Resistance  
 Disease codes: EB - Early Blight, F1- Fusarium Race 1, F2 - Fusarium Race 2, F3 - Fusarium Race 3, LB - Late Blight, LM - Leaf Mold,  
 N - Nematodes, SLS - Septoria Leaf Spot, TMV - Tobacco Mosaic Virus, ToMV - Tomato Mosaic Virus, V - Verticillium  
 Growth: CD - Compact Determinate, CI - Compact Indeterminate, D - Determinate, I - Indeterminate, SD - Semi-determinate



Sunrise Sauce



Homeslice



Little Sicily



Loki



Stellar

Name	Days to maturity from transplant	Fruit characteristics	Growth	Disease resistance	Comments
<b>ROMA</b>					
<b>Sunrise Sauce F1</b> 	55-60	Round, orange 3-4 oz. (85 to 113 g)	D	HR: F1, V	The only professional non-heirloom orange Roma/paste/cooking tomato on the market. Yields large amounts at one time to harvest enough to make a batch of sauce or salsa. Small plants are ideal for small-space gardens and large containers. Easy-to-peel tomatoes are sweet and meaty, with a taste like traditional Romas. Best flavour comes with cooking; can also be enjoyed fresh. Best in-ground.
<b>SLICER</b>					
<b>Homeslice F1</b> 	60-65	Round, red 5-6 oz. (142 to 170 g)	D	HR: F1, V	Vigorous, compact variety produces very early and bountiful yields of exceptional slicers. Perfect for patio containers and small gardens.
<b>Little Sicily F1</b> 	60-65	Round, small, red 3-4 oz. (85 to 113 g)	CD		Companion to Little Bing and Little Napoli, the compact, sturdy plants produce the majority of ripened fruit over a few weeks for a large harvest. Abundant, good-tasting, small, red slicer tomatoes are great eaten fresh or used in recipes. Best in containers, with or without a trellis.
<b>Loki F1</b> 	70-75	Round, medium, red 2.25-2.5 in./6 cm long x 3-3.25 in./8 cm wide, 6-8 oz. (170 to 227 g)	I	HR: F1, F2, LM, N, TMV, ToMV	Huge tomato flavour and performance. Early-maturing, round, red slicer fruit has high yield potential. Leaf mold resistance is great for growing in high tunnels or areas with high humidity. Best grown in the ground.
<b>Stellar F1</b> 	70-75	Round, red 5-7 oz. (142 to 198 g)	D	HR: F2, LB, V IR: EB, SLS	The perfect slicer for areas with high disease pressure. Produces lots of round, red fruit that is perfect for all uses. Best in-ground; benefits from trellis for support.

Growth: CD - Compact Determinate, CI - Compact Indeterminate, D - Determinate, I - Indeterminate, SD - Semi-determinate



Autumn Frost






Butterbaby



Honeynut

SQUASH 

Seed supplied as: Raw

Name	Type	Exterior colour	Days to maturity from direct seed	Fruit size/weight	Plant habit	Disease resistance	Comments
<b>WINTER SQUASH</b>							
<b>Autumn Frost F1</b> <i>Cucurbita moschata</i> 	Specialty Round	Dark tan	100-105	5-7 in./13-18 cm long x 3-4 in./13-15 cm wide	Medium Vine	IR: PM	Uniquely ribbed, round fruit ripens to dark tan with a frosted overlay. Fruit is similar in taste to a butternut squash, with superior quality, rich flavour and a shelf life of up to 4 months after maturity, allowing for a supply of high-quality fruit throughout the Winter season. Fruit can be prepared like a winter squash; cut lengthwise or cut the top 2 in./5 cm off, scoop seeds out and roast; perfect for stuffing. Best grown in-ground. <b>Also available as organic seed.</b>
<b>Butterbaby</b> <i>Cucurbita moschata</i> 	Mini butternut	Tan	100-105	4-6 in./10-15 cm long x 3-4 in./8-10 cm wide, 8-24 oz./227 to 680 g	Restricted Vine	IR: PM	Produces many sweet, personal-sized butternuts. High proportion of uniform fruit - around 1 lb./454 g each - means less grading for the fresh market farmer and satisfaction for the home gardener. Best in-ground; can be grown on a trellis to save even more space. <b>Also available as organic seed.</b>
<b>Honeynut</b> <i>Cucurbita moschata</i> 	Mini butternut	Dark tan	105-110	4-5 in./10-13 cm long x 2.5-4 in./6-10 cm wide, 8-16 oz./227 to 454 g	Restricted Vine		Produces exceptionally sweet, small fruit that are manageable to prepare. The first widely adaptable small-fruited butternut squash in a high-germinating, uniform strain. Higher yielding than traditional varieties. Best in-ground.

Disease terminology: HR = High Resistance, IR = Intermediate Resistance

Disease codes: PRSV - Papaya Ringspot Virus, PM - Powdery Mildew, WMV - Watermelon Mosaic Virus, ZYMV - Zucchini Yellow Mosaic Virus



Fresca Strawberry

**STRAWBERRY** 🍓

*Fragaria x ananassa*

**Fresca**



**Height:** 3 to 4 in./8 to 10 cm  
**Spread:** 10 to 12 in./25 to 30 cm

**Seed supplied as:** Raw

**Days from transplant to ripe fruit:** 85

- Produces medium-sized berries from the start of Summer through Autumn.
- Best in baskets, containers and in-ground.






Lemon Sun Squash



Easy Pick Gold II Zucchini



Green Lightning Squash *All-America Selections Winner*

Name	Type	Exterior colour	Days to maturity from direct seed	Fruit size/weight	Plant habit	Disease resistance	Comments
<b>SUMMER SQUASH</b>							
<b>Easy Pick Gold II F1</b> <i>Cucurbita pepo</i> 	Zucchini	Gold	45-50	1-10 in./ 3-25 cm long	Bush	IR: PRSV, WMV, ZYMV	Open habit with nearly no spines on the petioles for easy and continuous harvests with no pain and less scarring on fruit. Parthenocarpic variety means that plants will produce fruit without insect pollination. Harvest from a very small size with a flower attached. Best in-ground.
<b>NEW Green Lightning™ F1</b> <i>Curcubita pepo</i> 	Patty Pan	Green	40-45	1-3 in./3-8 cm long x 1-5 in./ 3-13 cm wide	Bush		One of the first patty pan squash on the market with such a vivid green-striped colouration. It has exceptional yield and flavour that help set it apart from other patty pans. Early maturity means Green Lightning will be one of the first squash harvested during the season. <i>All-America Selections Winner.</i>
<b>Lemon Sun F1</b> <i>Cucurbita pepo</i> 	Patty Pan	Yellow	40-45	1-3 in./3-8 cm long x 1-5 in./ 3-13 cm wide	Bush		Vigorous and strong bush plant habit will produce exceptional yields of uniform, yellow, scalloped, disc-shaped fruit with no green on the blossom end. Fruit are sweet and tender; harvest from baby with the flower attached to full size, 4 to 5 in./10 to 13 cm wide. Large quantities of male flowers are perfect for frying. Best grown in-ground.



**Fernleaf Dill**



**Dolce Fresca Basil**  
*All-America Selections Winner*







**Everleaf Emerald Towers Basil**



**Everleaf Genovese Basil**

HERBS ●

Seed supplied as: Raw

Name	Height	Spread	Days to maturity from transplant	Comments
<b>DILL</b>				
<b>Fernleaf</b> <i>Anethum graveolens</i> 	12-15 in./ 30-38 cm	10-12 in./ 25-30 cm	28	Perfect for patio planters - dwarf, compact plants don't need staking and won't topple over. Can also be grown in-ground and used for traditional culinary purposes. Late flowering allows for a long harvest season and extended ornamental period. <i>All-America Selections National Winner.</i>
<b>BASIL</b>				
<b>Dolce Fresca</b> <i>Ocimum basilicum</i> 	12-14 in./ 30-36 cm	10-12 in./ 25-30 cm	28	Mid-size plant has a unique, bushy habit with shorter internodes that shows better at retail than traditional basil and holds its controlled size in the garden without getting tall and leggy. More usable leaf yields, with traditional sweet Genovese basil flavour. <i>All-America Selections National Winner.</i>
<b>Everleaf Emerald Towers</b> <i>Ocimum basilicum</i> 	24-36 in./ 61-91 cm	8-12 in./ 20-30 cm	30-45	Flowers 10 to 12 weeks later than standard basil. This is a well-branched variety with a traditional Genovese flavour and short internodes. It makes a beautiful towering plant with huge harvest potential for in-ground, container and hydroponic use.
<b>Everleaf Genovese</b> <i>Ocimum basilicum</i> 	18-24 in./ 46-61 cm	12-18 in./ 30-46 cm	30-45	Flowers up to 8 weeks later than standard basil. This compact variety has short internodes and excellent branching, perfect for in-ground or container gardens. The robust Genovese flavour stands up to cooking - perfect for pesto and adding to sauce.



**Everleaf Lemon** National Garden Bureau Green Thumb Winner



**Everleaf Thai**



**Newton**



**Purple Ruffles** All-America Selections Winner

Name	Height	Spread	Days to maturity from transplant	Comments
<b>BASIL</b>				
<b>Everleaf Lemon</b> <i>Ocimum basilicum</i> 	24-36 in./ 61-91 cm	8-12 in./ 20-30 cm	30-45	The first lemon basil bred for season-long harvest. Flowers up to 8 weeks later than standard lemon basil. This upright variety has a bright lemon flavour - perfect for adding to dressings, marinades and salads. Performs well in-ground and in containers. <i>National Garden Bureau Green Thumb Winner.</i>
<b>Everleaf Thai Towers</b> <i>Ocimum basilicum</i> 	24-36 in./ 61-91 cm	8-12 in./ 20-30 cm	30-45	Flowers up to 10 to 12 weeks later than standard Thai basil with huge harvest potential. Well-branched variety with short internodes makes a beautiful, columnar plant that stays tidy for many uses, including in-ground, container gardens and hydroponics. Aromatic and vibrant licorice flavour complements any dish, especially Thai cuisine. Blends well when cooked in a curry or chop fresh on Pad Thai to experience full licorice aroma. Masses of medium-green leaves with occasional purple flecks and soft purple stems will brighten any retail display.
<b>Newton</b> <i>Ocimum basilicum</i> 	12-20 in./ 30-51 cm	10-16 in./ 25-41 cm	21-30	Fast-growing variety with traditional Genovese flavour features high resistance to Fusarium. Unlike similar varieties, Newton does not have a licorice aftertaste, appealing to a wide range of consumers. Large, bright green, crinkled leaves are great for vegetable wraps and fresh chopped herbs.
<b>Purple Ruffles</b> <i>Ocimum basilicum</i> 	18-24 in./ 46-61 cm	18-24 in./ 46-61 cm	28	Ornamental variety has fragrant, ruffled, deep purple leaves with mild anise flavour. <i>All-America Selections National Winner.</i>



Try Basil



Oregano



Rosemary











Thyme

**SINGLE-SPECIES  
MULTI-SEED PELLETS** ●

**SimplyHerbs™ Series**

- SimplyHerbs 'Try Basil' and Rosemary are available as Precision™ Multi-Pellets.
- For Growers, this offers reliable plug production, improved order fill rate, uniform quality in plug trays and improved margin, meaning more sales.
- For Hydroponic Growers, this offers a higher percentage of transplantable plugs and more uniform finished product.
- All varieties are best in-ground and in containers.

Name	Seed supplied as	Seeds per pellet	Height	Spread	Days to harvest from transplant	USDA hardiness zones
<b>Try Basil</b> <i>Ocimum basilicum</i>	PMPL*  	8	24-30 in./61-76 cm	12-16 in./30-41 cm	28	
<b>Oregano</b> <i>Origanum vulgare</i>	MPL  	9-14	12-30 in./30-76 cm	12-24 in./30-61 cm	28	5a-9b
<b>Rosemary</b> <i>Rosmarinus officinalis</i>	PMPL  	7	12-24 in./30-61 cm	12-24 in./30-61 cm	42	7a-10b
<b>Thyme</b> <i>Thymus vulgaris</i>	MPL  	8-14	12-18 in./30-46 cm	12-18 in./30-46 cm	42	5a-9b

MPL - Supplied as multi-species multi-pellets, with 3 or more seedlings per pellet. PMPL - Precision™ Multi-Pellets assure high germination uniformity.  
\*Each pellet includes Genovese, serrated and dark red selections.

**MULTI-SPECIES & SINGLE-SPECIES MULTI-PELLETS** ●●●

**SimplySalad® Series**

Height: 12 in./30 cm  
Spread: 12 in./30 cm

Plug crop time: 2 to 3 weeks

- SimplySalad introduced the first multi-species multi-seed pellets for salad.
- Easy to grow, with very quick crop times and only one pellet needed.
- Can be direct-sown in 4 to 6-in./10 to 15-cm pots and colour bowls.
- Produces more vivid colours when finished cool.
- Gardeners will enjoy as both a colourful, mixed-texture ornamental and a delicious, nutritious edible.
- Performs best for consumers in full sun in cool weather, or partial shade as temperatures warm up.
- Best in containers.

**SimplySalad multi-pellets produce a well-balanced salad mix with one sowing.**



**Precision Multi-Pellet**      **Standard Multi-Pellet**



**Alfresco Mixture**



**Arugula**



**City Garden Mixture**



**Global Gourmet Mixture**



**Kale Storm Mixture**



**Summer Picnic Mixture**

Name	Seed supplied as	Seeds per pellet	Height	Spread	Days to maturity from transplant	Comments
<b>Alfresco Mixture</b>	MPL	10-12	12 in./30 cm	12 in./30 cm	2-4 weeks	Red and green leaf lettuces with arugula, endive and radicchio.
<b>Arugula</b>	PMPL	6	12-18 in./30-46 cm	12-18 in./30-46 cm	2-4 weeks	Quick to establish, upright variety with a mix of lobes and smooth shapes - perfect for bunching. Harvest as young leaves with a mild, nutty flavour; leaves become spicy as they mature or are exposed to high temperatures.
<b>City Garden Mixture</b>	MPL	7-9	12 in./30 cm	12 in./30 cm	2-4 weeks	Red and green lettuces.
<b>Global Gourmet Mixture</b>	MPL	10-12	12 in./30 cm	12 in./30 cm	2-4 weeks	Red and green leaf lettuces with spicy Asian greens.
<b>Kale Storm Mixture</b>	PMPL	8	12-24 in./30-61 cm	12-24 in./30-61 cm	2-4 weeks	The first all-kale SimplySalad includes an attractive mix of textures and colours, including purple, green and blue. Lasts longer in the container than lettuce and won't bolt. Can also be planted in the ground for all-season harvest.
<b>Summer Picnic Mixture</b>	MPL	10-12	12 in./30 cm	12 in./30 cm	2-4 weeks	A season extender! Heat-tolerant, late-bolting mix of red and green lettuces.

MPL - Supplied as multi-species multi-pellets, with 3 or more seedlings per pellet.  
PMPL - Precision™ Multi-Pellets assure high germination uniformity.

# KITCHEN MINIS™



NO GARDEN?  
NO PROBLEM.



**Bonsai Basil**



**Quick Snack Cucumber** National Garden Bureau Green Thumb Winner

**HERB BASIL** ●

*Ocimum basilicum*

Seed supplied as: Raw

Name	Height	Spread	Comments
<b>Bonsai</b> 🍴	6-12 in./15-30 cm	6-12 in./15-30 cm	A compact, quick, uniform, fine-leaf Greek basil. Smaller leaves mean no chopping is required for use in recipes. It is also the first herb addition to the Kitchen Minis™ line, diversifying the product assortment.

**MINI POTTED CUCUMBER** ●

*Cucumis sativus*

Seed supplied as: Raw

Name	Type	Fruit characteristics	Days to maturity from direct seed	Fruit size	Comments
<b>Quick Snack F1</b> 🍷🍴	Cocktail	Dark green skin, smooth	38-45	1.5-2.5 in./ 4-6 cm long x 1 in./3 cm wide	Plants benefit from being trellised to keep upright and pinched when plant reaches top of trellis. Deliciously crisp and sweet cucumbers for your recipes! Eat fresh off the plant, or add to a vegetable platter or fresh salad. Produces handfuls of small, cocktail-sized cucumbers over a few weeks. Parthenocarpic variety will set fruit without a pollinator! Perfect for growing indoors or on a balcony. If grown on its own, fruit will be seedless. If grown next to other cucumbers with male flowers, there is potential to set seed. Be sure to place it in a location with high light and keep well-watered to allow fruit to mature. For best flavour, pick when fruit is 1.5 to 2.5 in./4 to 6 cm long. National Garden Bureau Green Thumb Winner.



Cosmo



Hot Burrito



Hot Fajita











Hot Lemon Zest

**MINI EDIBLE POTTED PEPPER** ●

*Capsicum annuum*

Seed supplied as: Raw

Pepper plants are ready to place inside on a sunny counter or windowsill, or outside on a patio table. They are ideally sold with some ripe fruit - "ready to harvest." They continue to produce tasty vegetables over 4 to 6 weeks.

Name	Fruit characteristics	Plug crop time (weeks)	Potting to sale (weeks)	Pot size	Comments
<b>HOT</b>					
<b>Cosmo</b>  	Blunt conical, purple to red 2 in./5 cm long x 0.75 in./2 cm wide	3-4	16-18	5-6.5 in./ 13-17 cm	Brilliant purple, snack-sized fruit turns red when fully mature. Use fresh or cooked to add a medium amount of spice to any dish.
<b>Hot Burrito</b>  	Blunt conical, light green to red 4 in./10 cm long x 0.75 in./2 cm wide	3-4	14-16	6-8 in./ 15-20 cm	Lime-green fruit will ripen to bright red for a colourful display of fruit on top of the foliage. Broad, conical fruit is mildly spicy and delicious when added to a sauce or slow-cooked with braised savoury dishes.
<b>Hot Fajita</b>  	Medium chili, light green to red 4 in./10 cm long x 0.5 in./1 cm wide	3-4	14-16	6-8 in./ 15-20 cm	Upright plant habit will show off eye-catching lime-green fruit that ripens to bright red. The long, tapered peppers are fleshy and spicy, perfect for cooking.
<b>Hot Lemon Zest</b>  	Habanero, green to yellow 1 in./3 cm long x 0.5 in./1 cm wide	3-4	15-17	6-8 in./ 15-20 cm	Don't be fooled by the gorgeous lemon-yellow fruit; these peppers pack a punch of heat. Small, teardrop-shaped peppers spice up salsa or hot sauce!



Tamale



Fresh Bites Orange








Taquito




Fresh Bites Red



Fresh Bites Yellow

Name	Fruit characteristics	Plug crop time (weeks)	Potting to sale (weeks)	Pot size	Comments
<b>HOT</b>					
<b>Tamale</b>  	Blunt conical, green to red 2 in./5 cm long x 0.75 in./2 cm wide	3-4	14-16	4-6 in./ 10-15 cm	Jazz up your tamales and enchiladas with this crisp, juicy, thick-walled pepper with a mild, spicy flavour. Dark green fruit ripens to bright red and hangs down on a medium-sized plant.
<b>Taquito</b>  	Small chilli, green to red 1.5 in./4 cm long x 0.3 in./1 cm wide	3-4	15-17	3-4 in./ 6-10 cm	This pint-sized pepper plant is perfect for a windowsill with decorative, upright, conical peppers and small foliage. Spicy fruit ripens from green to bright red and is great for adding to a stir-fry.
<b>SWEET</b>					
<b>Fresh Bites Series</b> 	Snack, green to orange, red and yellow 2.25 in./6 cm long x 1.25 in./3 cm wide	3-4	15-17	5-6.5 in./ 13-17 cm	Deliciously sweet, thick-walled, vibrant red, orange and yellow snack peppers taste great eaten right off the plant, chopped up in a salad or grilled.

 = mild  
  = mildly hot  
  = medium hot  
  = hot  
  = extra hot



Cocoa



Red Velvet



Siam

**MINI POTTED TOMATO** ●

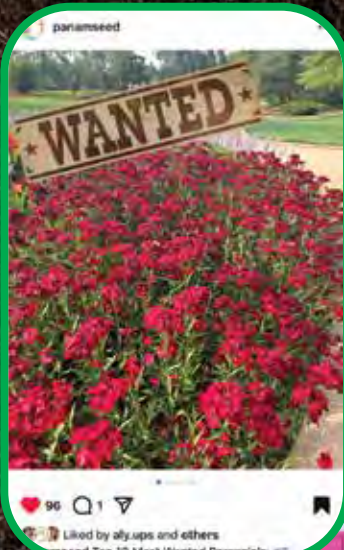
*Solanum lycopersicum*  
(*Lycopersicon esculentum*)

**Seed supplied as:** Raw

Plant benefits from being grown dry. Support fruit weight by inserting sticks close to the central stem at the time of flowering. Ship with some ripe fruit.

Name	Fruit characteristics	Growth	Plug crop time (weeks)	Potting to sale (weeks)	Pot size	Comments
<b>CHERRY</b>						
<b>Cocoa F1</b> 🍴	Dark red 0.5-1 in./1-3 cm long x 0.5-1 in./1-3 cm wide	CD	2-3	10-12	4-6 in./ 10-15 cm	Cocoa will brighten up your windowsill or patio table, and it has a tidy plant habit. Cocoa provides uniquely burgundy-coloured fruit that is deliciously sweet for your recipes!
<b>Red Velvet F1</b> 🍴	Red 0.5-1 in./1-3 cm long x 0.5-1 in./1-3 cm wide	CD	2-3	10-12	4-6 in./ 10-15 cm	Red Velvet will brighten up your windowsill or patio table, and it has a tidy plant habit. Red Velvet provides beautiful red-coloured fruit that is deliciously sweet for your recipes!
<b>Siam F1</b> 🍴	Bright red 0.5-1 in./1-3 cm long x 0.5-1 in./1-3 cm wide	CD	2-3	10-12	6-8 in./ 15-20 cm	Siam will brighten up your windowsill or patio table, and provides deliciously sweet fruit for your recipes! With Siam, you'll enjoy handfuls of fruit over a few weeks.

CD: compact, determinate.



PanAmerican Seed®

# KEEPING IN TOUCH



[panamseed.com](http://panamseed.com)

In addition to the helpful tools on our website, you can find us on social media with all the latest tips and tricks, real-life experiences and how-to videos. Follow us to be a part of the growing community!

# INSPIRED SOLUTIONS





**Marika Olthof** (Assistant Breeder) and  
**Mike Appelman** (Grower)

# BRING ON THE BEES, BIRDS AND BUTTERFLIES

Introducing the **Bee-Yond Pollinator Program**, our curated collection of plants from PanAmerican Seed® that attract pollinators of all kinds, sustaining our ecosystem and improving the environment, as well as offering added value from seed that our vegetative counterparts don't provide. These non-branded options can be added to your existing pollinator program to meet all your customers' and consumers' needs.

**With these pollinator-friendly varieties, you'll benefit from:**

## DECREASED LABOUR

With seed, you can schedule your production on your time.

## ENVIRONMENTAL ADVANTAGES

Protecting wildlife and the ecosystem.

## COST SAVINGS

Set your program up for success with these reliable varieties.

## THE BEE-YOND POLLINATOR COLLECTION

SMALL (10 TO 16 IN./25 TO 41 CM)	MEDIUM (18 TO 24 IN./46 TO 61 CM)	LARGE (30 TO 42 IN./76 TO 107 CM)
Lavance Deep Purple Lavandula	Early Sunrise Coreopsis	Purple Baron Ornamental Millet
Vista™ Red Salvia	Blue Steel Perovskia	Lancelot Salvia
Sparkle White Gaura	Artisan™ Collection Red Ombre Echinacea	Jester Ornamental Millet
Mesa™ Bright Bicolor Gaillardia	Artisan™ Collection Soft Orange Echinacea	Mahogany Splendor Hibiscus
Mesa™ Peach Gaillardia	Artisan™ Collection Yellow Ombre Echinacea	Silky Deep Red Asclepias
Mesa™ Red Gaillardia	Goldblitz Rudbeckia	Silky Gold Asclepias
Mesa™ Yellow Gaillardia	Big Blue Interspecific Salvia	Buenos Aires Verbena
Bluesette Perovskia	Lighthouse Purple Salvia	Purple Majesty Ornamental Millet
PowWow® Wild Berry Echinacea		
PowWow® White Echinacea		

\*Based on initial height.



Sparkle White Gaura



Goldblitz Rudbeckia



Lancelot Salvia



## POLLINATOR BENEFITS

1. **1 out of every 3 bites of food needs a pollinator.**
2. Pollinators **support biodiversity.**
3. **Nearly 1 in 4 bees** from each of the 347 native bee species is imperiled and at increasing **risk of extinction** due to habitat destruction and pesticide use. Other major threats are climate change and urbanization. *Source: Center for Biological Diversity*
4. **Ecosystems depend on pollinators.** Plants stabilize our soils, clean our air, supply oxygen and support wildlife.



This pollinator house keeps plants blooming at our greenhouse in Venhuizen.



Explore our complete pollinator program today!

Noortje Bronner (Production Technician)



Artisan Collection Soft Orange Echinacea and Mesa Bright Bicolor Gaillardia



Purple Baron and Purple Majesty Ornamental Millet

# LANDSCAPE PRODUCTS FOR PROFESSIONALS

At PanAmerican Seed, we work to develop solutions that both growers and professional landscapers can use to improve their business. For this segment of our industry, we provide support through product development, breeding and trialing designed for landscape performance.

Our testing occurs in North America and covers several important professional landscaper requirements, including: sun and 50% shade, overhead irrigation, speed to fill, maintenance requirements and season-long colour impact.

Products designated as a Pro Landscape Performer are listed in this catalog featuring the icon below, and at [panamseed.com/landscape](https://panamseed.com/landscape).



**PRO LANDSCAPE  
PERFORMER**

**Our collection of landscape varieties has been selected based on these key elements:**

**Fast Fill**

**Low  
Maintenance**

**Maintains  
Colour All  
Season Long**



**Explore these helpful plant lists and resources:**

- Find a Plant Supplier
- Plant Calculator
- Regional Plant Selector
- Build A Landscape Sell Sheet Tool



**Find the right  
landscape solution!**

# SOW FAST. GROW FAST.™

**A program designed to fill your benches fast, and clear them even faster!**

**What if your empty benches could be filled and ready for additional sales in 10 WEEKS OR LESS?**

With the Sow Fast. Grow Fast.™ program, you can keep your **benches full** after Spring for additional **shoulder season sales**. Expertly **designed** and meticulously **trialed**, it's the top growing program proven to fill benches with quality seed product fast. Sow Fast. Grow Fast. offers 200+ varieties from seed that can produce the perfect planter or mixed combo ready for sales in 10 weeks or less!

## THE NUMBERS ADD UP!

**200+** VARIETIES

**10** WEEKS CROP TIME OR LESS

**20+** SERIES

**1** SOLUTION TO KEEP YOUR SALES GROWING!



Get the full list of options here!



Fill retail racks during the shoulder season for more sales!

**PROVEN GERMINATION • CALCULATED FINISH TIMES • QUICK TURN-AROUND**

# COMBOS YOU CAN COUNT ON

To save you time and stress in guessing, we've calculated the time it will take for you to grow your perfect combo! Through dedicated research and development, we have predetermined the ideal genus, season, light exposure and planting type to provide you with a combo that you can count on.

## IT'S AS EASY AS:



Select your  
**GENUS**



Select your  
**SERIES**



Select your  
**COLOUR**

Your **Calculated Combos™** results will provide you with **plants per pot, crop time plug and finished time**, so you can stop calculating and get growing!



Solarscape White Pearl  
Interspecific Impatiens  
Chocolate Covered Cherry  
Premium Sun Coleus  
FuzzyFern Frizz Asparagus

Solarscape XL Pink Jewel  
Interspecific Impatiens  
ColorGrass Phoenix Green Carex  
Purple Prince Alternanthera

Solarscape XL Lilac Spark  
Interspecific Impatiens  
ColorGrass Blue Dart Juncus  
Purple Prince Alternanthera



Grow your ideal combo!

# FIRST-YEAR-FLOWERING TOOL

## ACCURATE PERENNIALS SCHEDULING MATTERS

It's easier than ever before to schedule your seed perennials with PanAmerican Seed. Use our interactive scheduling tool and resource guide to plan, sow and grow dozens of perennial crops to hit specific bloom weeks for maximum sales opportunities.



Choose from hundreds of flowering options that have broken vernalisation barriers.



EASY TO ACCESS. EASY TO USE. EASY TO STAY IN THE KNOW.



Hit your bloom week every time!

# SMART SCHEDULING: KNOW BEFORE YOU GROW

The Smart Scheduling Tool from PanAmerican Seed is an easy-to-use estimator for growers to help plan and schedule their crops. It was developed to provide accurately predicted finish times for key crops, targeting our Wave® petunias and Kitchen Minis™ programs.

The tool takes into consideration environmental conditions such as temperature, media and light, as well as other factors that influence plant growth and development. You can use the tool to calculate precise ship dates with exact product specs - the keystone of floriculture crop production.



Schedule your next crop today

# TOOLS YOU CAN USE



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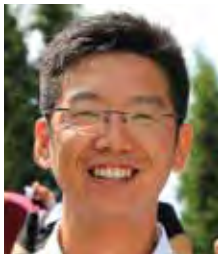
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# THE PANAMERICAN SEED TEAM IS HERE TO HELP!

USE THE POWER OF RECOGNITION

The "stamp of approval" on these reliable, proven varieties assures landscapers and home gardeners that they are selecting and planting superior performers. Growers and retailers benefit from the added promotional efforts that these winners receive, both at their debut and for years to come.



**Spreading Petunia Wave Purple Classic** *All-America Selections Winner*



**Impatiens Beacon White**  
*Medal of Excellence Industry's Choice and Reader's Choice*

ALL-AMERICA SELECTIONS

- Angelonia Serenita Pink
- Coleus, Premium Sun Coral Candy
- Coreopsis Early Sunrise
- Dianthus Ideal Select Violet
- Interspecific Dianthus Jolt Pink
- Echinacea Cheyenne Spirit
- Echinacea PowWow Wild Berry
- Eggplant Fairy Tale
- Eggplant Gretel
- Eggplant Hansel
- Gaillardia Mesa Yellow
- Gaura Sparkle White
- Basil Dolce Fresca
- Basil Purple Ruffles
- Dill Fernleaf
- Interspecific Impatiens
  - Solarscape XL Pink Jewel
- Osteospermum Akila Daisy White
- Pepper Aji Rico
- Pepper Cajun Belle
- Pepper Mad Hatter
- Ornamental Pepper Black Pearl
- Ornamental Pepper Chilly Chili
- Double Petunia Pirouette Purple
- Spreading Petunia Tidal Wave Red Velour
- Spreading Petunia Tidal Wave Silver
- Spreading Petunia Wave Carmine Velour
- Spreading Petunia Wave Lavender
- Spreading Petunia Wave Purple Classic
- Snapdragon Rocket Bronze
- Snapdragon Rocket Golden
- Snapdragon Rocket Red
- Snapdragon Rocket Rose Shades
- Snapdragon Rocket White
- Squash Green Lightning
- Tomato Candyland Red
- Tomato Midnight Snack
- Vinca Pacifica XP Burgundy Halo
- Zinnia Double Zahara Cherry
- Zinnia Double Zahara Fire
- Zinnia Zahara Starlight Rose

ALL-AMERICA SELECTIONS REGIONAL

- Echinacea Artisan Collection Yellow Ombre
- Eggplant Patio Baby
- Pepper Pot-a-peño

NATIONAL GARDEN BUREAU GREEN THUMB

- Basil Everleaf Lemon
- Cucumber Quick Snack

FLEUROSELECT GOLD MEDAL

- Celosia Foliage, Sol Gekko Green
- Coreopsis Early Sunrise
- Cosmos Sonata White
- Echinacea Cheyenne Spirit
- Gaillardia Mesa Yellow
- Gaura Sparkle White
- Lavandula Bandera Purple
- Lavandula Ellagance Purple
- Leucanthemum Madonna
- Nemesia Sundrops Mixture
- Osteospermum Akila Daisy White
- Spreading Petunia Tidal Wave Red Velour
- Spreading Petunia Wave Lavender
- Rudbeckia Goldblitz
- Viola Sorbet XP Delft Blue
- Zinnia Double Zahara Fire
- Zinnia Zahara Sunburst



**Gaura Sparkle White**  
All-America Selections Winner,  
Fleuroselect Gold Medal



**Echinacea Cheyenne Spirit**  
All-America Selections Winner, Fleuroselect Gold Medal,  
Medal of Excellence Best Performing Variety



**Squash Green Lightning**  
All-America Selections Winner

**FLEUROSELECT NOVELTY**

- Alyssum Clear Crystal White
- Celosia Foliage, Sol Gekko Green
- Celosia Foliage, Sol Lizzard Leaf
- Coreopsis Double the Sun
- Digitalis Dalmatian Purple
- Heuchera Melting Fire
- Iberis Whiteout
- Lavandula Bandera Deep Purple
- Lavandula Bandera Deep Rose
- Lavandula Bandera Purple
- Leucanthemum Madonna
- Lobelia Regatta Rose
- Lobelia Riviera White
- French Marigold Bonanza Deep Orange
- Ornamental Pepper Black Pearl
- Perovskia Blue Steel
- Perovskia Bluesette
- Spreading Petunia Tidal Wave Red Velour
- Salvia New Dimension Rose
- Salvia Salvatore Blue
- Vinca Pacifica XP Burgundy Halo
- Zinnia Double Zahara Bright Orange
- Zinnia Double Zahara Cherry
- Zinnia Double Zahara Fire
- Zinnia Double Zahara White
- Zinnia Zahara Starlight Rose
- Zinnia Zahara Sunburst

**MEDAL OF EXCELLENCE BEST PERFORMING VARIETY**

- Echinacea Cheyenne Spirit

**MEDAL OF EXCELLENCE BEST PROGRAM**

- Edible Potted Pepper Fresh Bites Orange
- Edible Potted Pepper Fresh Bites Red
- Edible Potted Pepper Fresh Bites Yellow
- Edible Potted Pepper Cosmo
- Edible Potted Pepper Hot Burrito
- Edible Potted Pepper Hot Fajita
- Edible Potted Pepper Hot Lemon Zest
- Edible Potted Pepper Tamale
- Edible Potted Pepper Taquito
- Edible Potted Tomato Cocoa
- Edible Potted Tomato Red Velvet
- Edible Potted Tomato Siam

**MEDAL OF EXCELLENCE EDITOR'S CHOICE**

- Spreading Pansy Cool Wave Frost
- Spreading Pansy Cool Wave Mixture
- Spreading Pansy Cool Wave Violet Wing
- Spreading Pansy Cool Wave White

**MEDAL OF EXCELLENCE READER'S CHOICE**

- Impatiens Beacon Bright Red
- Impatiens Beacon Lipstick
- Impatiens Beacon Orange
- Impatiens Beacon Rose
- Impatiens Beacon Salmon
- Impatiens Beacon Violet Shades
- Impatiens Beacon White
- Impatiens Beacon Lindau Mixture
- Impatiens Beacon Pearl Island Mixture
- Impatiens Beacon Portland Mixture
- Impatiens Beacon Sanibel Mixture

**MEDAL OF EXCELLENCE INDUSTRY'S CHOICE**

- Echinacea Artisan Collection Red Ombre
- Echinacea Artisan Collection Soft Orange
- Impatiens Beacon Bright Red
- Impatiens Beacon Lipstick
- Impatiens Beacon Orange
- Impatiens Beacon Rose
- Impatiens Beacon Salmon
- Impatiens Beacon Violet Shades
- Impatiens Beacon White
- Impatiens Beacon Lindau Mixture
- Impatiens Beacon Pearl Island Mixture
- Impatiens Beacon Portland Mixture
- Impatiens Beacon Sanibel Mixture
- Interspecific Impatiens
- Solarscape Magenta Bliss
- Interspecific Impatiens
- Solarscape Orange Burst
- Petchoa Caliburst Yellow
- Vinca Tattoo Black Cherry
- Vinca Tattoo Papaya
- Vinca Tattoo Raspberry
- Vinca Tattoo Tangerine

**ROYAL HORTICULTURAL SOCIETY AWARD OF GARDEN MERIT**

- Alyssum Easter Bonnet Violet
- Dianthus Amazon Neon Purple
- Dianthus Amazon Rose Magic
- Dianthus Dynasty Orchid
- Dianthus Ideal Select Rose
- Dianthus Ideal Select WhiteFire
- Dianthus Sweet Coral
- Dianthus Sweet Scarlet



**Interspecific Impatiens Solarscape Magenta Bliss and Orange Burst**  
Medal of Excellence Industry's Choice



**Petchoa Caliburst Yellow**  
Medal of Excellence Industry's Choice

**U.S. UTILITY PATENTS**

**US 10,212,908**

Vinca Titan™ Apricot  
 Vinca Titan™ Cranberry  
 Vinca Titan™ Dark Red  
 Vinca Titan™ Icy Pink  
 Vinca Titan™ Punch  
 Vinca Titan™ Really Red  
 Vinca Titan™ Rose  
 Vinca Titan-ium™ Apricot  
 Vinca Titan-ium™ Blush  
 Vinca Titan-ium™ Dark Red  
 Vinca Titan-ium™ Punch  
 Vinca Titan-ium™ Really Red  
 Vinca Titan-ium™ White  
 Vinca Titan-ium™ Mixture

**US 10,285,362**

Impatiens Beacon® Blue Pearl  
 Impatiens Beacon® Bright Red  
 Impatiens Beacon® Coral  
 Impatiens Beacon® Light Pink  
 Impatiens Beacon® Lipstick  
 Impatiens Beacon® Orange  
 Impatiens Beacon® Rose  
 Impatiens Beacon® Salmon  
 Impatiens Beacon® Violet Shades  
 Impatiens Beacon® White  
 Impatiens Beacon® Cape Pine Mixture  
 Impatiens Beacon® Chicago Mixture  
 Impatiens Beacon® Formula Mixture  
 Impatiens Beacon® Lindau Mixture  
 Impatiens Beacon® Otway Mixture  
 Impatiens Beacon® Pearl Island Mixture  
 Impatiens Beacon® Portland Mixture  
 Impatiens Beacon® Sanibel Mixture

**US 10,631,515**

Pentas Glitterati™ Purple Star  
 Pentas Glitterati™ Red Star

**US 10,750,692**

French Marigold Fireball  
 French Marigold Strawberry Blonde

**US 11,166,424**

Impatiens Beacon® Blue Pearl  
 Impatiens Beacon® Bright Red  
 Impatiens Beacon® Coral  
 Impatiens Beacon® Light Pink  
 Impatiens Beacon® Lipstick  
 Impatiens Beacon® Orange  
 Impatiens Beacon® Rose  
 Impatiens Beacon® Salmon  
 Impatiens Beacon® Violet Shades  
 Impatiens Beacon® White  
 Impatiens Beacon® Cape Pine Mixture  
 Impatiens Beacon® Chicago Mixture  
 Impatiens Beacon® Formula Mixture  
 Impatiens Beacon® Lindau Mixture  
 Impatiens Beacon® Otway Mixture  
 Impatiens Beacon® Pearl Island Mixture  
 Impatiens Beacon® Portland Mixture  
 Impatiens Beacon® Sanibel Mixture

**US 11,559,016**

Vinca Valiant™ Magenta

**US 11,684,031**

Vinca Valiant™ Apricot  
 Vinca Valiant™ Mixture

**US 7,642,436**

Petunia Sophistica® Antique Shades  
 Petunia Sophistica® Blackberry  
 Petunia Sophistica® Lime Bicolor  
 Petunia Sophistica® Lime Green  
 Spreading Petunia Easy Wave® Berry Velour  
 Spreading Petunia Easy Wave® Burgundy Velour  
 Spreading Petunia Easy Wave® Navy Velour  
 Spreading Petunia Easy Wave® Red Velour  
 Spreading Petunia Tidal Wave® Red Velour  
 Spreading Petunia Wave® Carmine Velour

**US 7,915,504**

Alyssum Clear Crystal® Lavender Shades  
 Alyssum Clear Crystal® Purple Shades  
 Alyssum Clear Crystal® White  
 Alyssum Clear Crystal® Mixture

**US 7,982,110**

Echinacea Artisan™ Collection Red Ombre  
 Echinacea Artisan™ Collection Soft Orange  
 Echinacea Artisan™ Collection Yellow Ombre  
 Echinacea Cheyenne Spirit  
 Echinacea PowWow® Wild Berry

**US 9,301,465**

Ornamental Pepper Hot Pops Purple

**US 9,307,712**

Ornamental Pepper Hot Pops Yellow

**US 9,320,212**

French Marigold Hot Pak™ Gold  
 French Marigold Hot Pak™ Mixture

**US 9,326,464**

French Marigold Hot Pak™ Harmony  
 French Marigold Hot Pak™ Mixture

**US 9,326,465**

French Marigold Hot Pak™ Yellow  
 French Marigold Hot Pak™ Mixture

**US 9,326,466**

French Marigold Hot Pak™ Spry  
 French Marigold Hot Pak™ Mixture

**US 9,326,467**

French Marigold Hot Pak™ Orange  
 French Marigold Hot Pak™ Mixture

**US 9,326,468**

French Marigold Hot Pak™ Flame  
 French Marigold Hot Pak™ Mixture

**US 9,451,748**

Vinca Valiant™ Burgundy  
 Vinca Valiant™ Mixture

**US 9,451,749**

Vinca Valiant™ Mixture

**US 9,451,750**

Vinca Valiant™ Orchid

**US 9,451,751**

Vinca Valiant™ Punch  
 Vinca Valiant™ Mixture

**US 9,451,752**

Vinca Valiant™ Lilac  
 Vinca Valiant™ Mixture

**U.S. PLANT VARIETY PROTECTIONS**

Coleus, Premium Shade Kong® Red - 200500015  
 Coleus, Premium Shade Kong® Rose - 200500017  
 Coleus, Premium Shade Kong®  
     Salmon Pink - 200900035  
 Coreopsis SunKiss - 201700014  
 Cuphea Pink Shimmer - 201800290  
 French Marigold Bonanza™ Bolero - 201800074  
 French Marigold Bonanza™  
     Deep Orange - 201800517  
 French Marigold Flamenco - 202000034  
 Matthiola Katz Ruby - 201200438  
 Myosotis Mon Amie Blue - 200800070  
 Ornamental Oregano Kirigami - 201800057  
 Ornamental Pepper Black Pearl - 200500020  
 Salvia interspecific Big Blue - 201700218  
 Vinca Mediterranean XP Dark Red - 200900043  
 Vinca Mediterranean XP Hot Rose - 200900084  
 Vinca Mediterranean XP Peach - 200900080  
 Vinca Mediterranean XP Red - 200900081  
 Vinca Mediterranean XP Strawberry - 200900083  
 Vinca Mediterranean XP White - 200900053  
 Vinca Pacifica XP Burgundy Halo - 200700272  
 Vinca Pacifica XP Dark Red - 200600189  
 Vinca Pacifica XP Magenta Halo - 200500216  
 Vinca Pacifica XP Really Red - 200600190  
 Vinca Pacifica XP Rose Halo - 200500218  
 Vinca Tattoo™ American Pie Mixture - 200600190  
 Vinca Tattoo™ Black Cherry - 201800427  
 Vinca Tattoo™ Blueberry - 202100168  
 Vinca Tattoo™ Orange - 202200007  
 Vinca Tattoo™ Papaya - 201800424  
 Vinca Tattoo™ Raspberry - 201800426  
 Vinca Tattoo™ Tangerine - 201800425  
 Zinnia Double Zahara™ Cherry - 201600027  
 Zinnia Double Zahara™ Fire - 201600032

Zinnia Double Zahara™

Raspberry Ripple - 201800173  
 Zinnia Double Zahara™ Salmon - 201900097  
 Zinnia Double Zahara™ Yellow - 202000360  
 Zinnia Zahara® Cherry - 201600029  
 Zinnia Zahara® Fire - 201000090  
 Zinnia Zahara® Raspberry - 201500215  
 Zinnia Zahara® Red - 201600030  
 Zinnia Zahara® White - 201400297  
 Zinnia Zahara® Yellow - 201500214

**EUROPEAN COMMUNITY**

**PLANT BREEDER'S RIGHTS**

Celosia Neo™ Orange - 44055  
 Celosia Neo™ Pink - 43694  
 Celosia Neo™ Rose - 43693  
 Coreopsis SunKiss - 46544  
 Echinacea PowWow® Wild Berry - 35233  
 Heuchera Melting Fire - 20557  
 Lavandula Blue Spear - 57923  
 Lavandula Lavance Deep Purple - 48822  
 Salvia interspecific Big Blue - 49559

**EUROPEAN COMMUNITY**

**UTILITY PATENTS APPLIED FOR**

Impatiens Beacon® Blue Pearl  
 Impatiens Beacon® Bright Red  
 Impatiens Beacon® Coral  
 Impatiens Beacon® Light Pink  
 Impatiens Beacon® Lipstick  
 Impatiens Beacon® Orange  
 Impatiens Beacon® Rose  
 Impatiens Beacon® Salmon  
 Impatiens Beacon® Violet Shades  
 Impatiens Beacon® White  
 Impatiens Beacon® Cape Pine Mixture  
 Impatiens Beacon® Chicago Mixture  
 Impatiens Beacon® Formula Mixture  
 Impatiens Beacon® Lindau Mixture  
 Impatiens Beacon® Otway Mixture  
 Impatiens Beacon® Pearl Island Mixture  
 Impatiens Beacon® Portland Mixture  
 Impatiens Beacon® Sanibel Mixture  
 Petunia Sophistica® Antique Shades  
 Petunia Sophistica® Blackberry  
 Petunia Sophistica® Lime Bicolor  
 Petunia Sophistica® Lime Green  
 Spreading Petunia Easy Wave® Berry Velour  
 Spreading Petunia Easy Wave® Burgundy Velour  
 Spreading Petunia Easy Wave® Red Velour  
 Spreading Petunia Tidal Wave® Red Velour  
 Spreading Petunia Wave® Carmine Velour

**CANADA UTILITY PATENTS APPLIED FOR**

Impatiens Beacon® Blue Pearl  
 Impatiens Beacon® Bright Red  
 Impatiens Beacon® Coral  
 Impatiens Beacon® Light Pink  
 Impatiens Beacon® Lipstick  
 Impatiens Beacon® Orange  
 Impatiens Beacon® Rose  
 Impatiens Beacon® Salmon  
 Impatiens Beacon® Violet Shades  
 Impatiens Beacon® White  
 Impatiens Beacon® Cape Pine Mixture  
 Impatiens Beacon® Chicago Mixture  
 Impatiens Beacon® Formula Mixture  
 Impatiens Beacon® Lindau Mixture  
 Impatiens Beacon® Otway Mixture  
 Impatiens Beacon® Pearl Island Mixture  
 Impatiens Beacon® Portland Mixture  
 Impatiens Beacon® Sanibel Mixture

**EUROPEAN COMMUNITY UTILITY PATENTS**

**EP3224371**

French Marigold Fireball  
 French Marigold Strawberry Blonde

**ACCEPTANCE OF TERMS**

These terms and conditions shall govern orders for Goods placed with Seller. Purchaser acknowledges that these terms and conditions and Seller's proposal, if any, constitute the entire agreement between Seller and Purchaser and supersede any prior agreements and representations. Any prior or contemporaneous promises, agreements, negotiations or representations whether oral or written or created in the custom, usage or course of dealing are also superseded by these terms and conditions. No modification of these terms and conditions shall be effective unless in writing signed by Seller. Placement of the order shall constitute Purchaser's acceptance of these terms and conditions. All orders are subject to acceptance by Seller at our corporate office. Any different or additional terms in any documents from Purchaser are objected to and rejected, are deemed to materially alter these terms, and will not become part of any contract between Seller and Purchaser.

**PRICING**

Prices and availability are subject to change without notice. Although Seller tries to assure accuracy, it shall not be held responsible for typographical or other errors in the price list. Purchaser's price is determined by referring to the product price and deducting any discount for which Purchaser may qualify. Please contact your sales representative for more information.

**TERMS**

All payments must be received before Goods are shipped unless otherwise agreed to in writing by Seller. Payment terms can be seen on your Order Confirmation or at the appropriate Terms & Conditions page at [panamseed.com](http://panamseed.com) for North American, European and International credit-approved customers. A 2% per month finance charge (24% annual rate) will be added to all past due balances at the end of each month. Seller has no obligation to ship any Goods until payment in full is received. PanAmerican Seed Company is a division of Ball Horticultural Company, an Illinois corporation in the USA. PanAmerican Seed Europe B.V. is a Dutch company owned 100% by Ball Horticultural B.V., which is 100% owned by Ball Horticultural Company.

**MINIMUM ORDERS**

The minimum quantity listed in the price list for each variety is the minimum order for that variety. Seller reserves the right to fill orders using pre-packaged inventory when available. Bulk quantities of items within a series cannot be combined to reach the minimum amount. Special packaging requests can be for any quantity as long as the minimum bulk requirement is met.

**ORDER CHANGES**

While order changes can be accommodated, there could be an impact to the delivery date. Please contact your customer service representative to discuss the implications of any order changes prior to submission.

**FREIGHT & HANDLING CHARGES, INSPECTION, DAMAGED GOODS**

(a) The freight and handling charge on Purchaser's invoice covers shipment of the Goods to Purchaser's destination. Seller will pay to return damaged goods, for replacement Goods or provide Purchaser with a credit for damaged Goods if the steps listed in Section (b) below are followed. PURCHASER WILL NOT REFUSE TO RETURN DAMAGED OR DEFECTIVE GOODS, OR THE RIGHT TO FILE A CLAIM IS LOST AND PURCHASER WILL STILL BE LIABLE FOR THE MATERIAL AND THE FREIGHT.

(b) When Purchaser receives shipment, it shall immediately: 1) count all cartons; 2) inspect all cartons for external damage; 3) check for open or resealed cartons; 4) note any damages, shortages, open or resealed cartons on the delivery receipt;

the carrier's representative must also sign the receipt; and 5) open all boxes immediately and inspect for damage, including, but not limited to, material shortages. PURCHASER MUST NOTIFY SELLER WITHIN TWO (2) BUSINESS DAYS IF A SHIPMENT IS DAMAGED by calling its Customer Service Representative to report the damage and receive details on what is needed to file a claim. The Goods shall be deemed accepted by the Purchaser on the earlier of (a) notice of acceptance to Seller, or (b) ten (10) days after delivery. Any claims for shortage, non-delivery, damage or defect which would reasonably be discoverable in the course of such inspection shall be waived unless Purchaser notifies Seller in writing within ten (10) days after delivery of the goods to which the claim relates.

**PACKAGING FEES**

All orders will be filled in bulk and/or predetermined packet sizes unless special packaging instructions are given. Special packaging requests must be at or above the Minimum Order requirements. If special packaging is requested, a packaging fee will apply and additional time may be required to complete the order. Purchaser shall contact Customer Service if it requires additional details.

**CUSTOM SEED TREATMENTS**

If a custom treatment is requested, a \$25 (U.S. Dollars) fee per batch will apply and additional time may be needed to complete the order.

**PHYTOSANITARY CERTIFICATES CHARGE**

Depending on the Goods ordered by Purchaser, and the location of the Purchaser, Phytosanitary Certificates may be required to comply with government regulations. If the shipment requires Phytosanitary Certificates, an additional cost will be charged.

**DELIVERY DATES**

Please indicate the required ship date when the order is being placed. No orders can be accepted without a requested ship date. All shipping and delivery dates provided by the Seller are approximate.

**DELAYS, SHORTAGES & SUBSTITUTIONS**

Seller shall not be responsible for delays in delivery or for losses resulting from such delays. Seller reserves the right to make partial shipments. Seller will not be liable for any delay in performing or for partial or complete failure to perform hereunder if such delay or failure is due to fire, explosion, flood, Act of God, force majeure, accident, war, intervention of governmental authorities, strikes, labor disputes, material shortages, transportation delays, any act or omission of Purchaser, its agents or employees or any party retained by, through or under the control of Purchaser, or any other cause similar or dissimilar which is beyond Seller's reasonable control.

**INSURANCE**

Seller does not insure shipments via Air Mail, but insures all other shipments in transit, in commercially reasonable amounts.

**SHIPPING**

Any shipment outside of the United States will be charged normal carrier rates.

**RETURNS**

No Goods may be returned without first obtaining written authorization. Authorized returns will only be considered if they are in original, unopened Seller packages. All returns are subject to a 15% service charge.

No credit or replacement will be given for Goods returned after nine (9) months from the ship date.

Upon receiving authorization, returns can be shipped to:

PanAmerican Seed  
Attn: Returns  
622 Town Road  
West Chicago, Illinois USA 60185-2698

**SEED COUNT**

All seed counts given are approximate quantities due to variation based on a lot by lot comparison. Seed counts may also vary widely between colours and series.

**NOTICE REGARDING SEED-BORNE DISEASES**

Seller makes no representation regarding the freedom from seed-borne diseases of the seed sold and disclaims any liability relating to such diseases, whether previously known to exist or not identified until such seed is grown.

**RESERVATION OF OWNERSHIP**

In the event of bankruptcy, products delivered by the Seller remain the property of Seller until the Purchaser has paid the purchase price amount. This reservation of ownership is also extended to claims that Seller may obtain towards Purchaser on account of the Purchaser's failure to meet their obligations to Sale.

**LIMITATION OF WARRANTY**

Seller warrants, to the extent required by law, that Goods conform to the description appearing in Seller's catalog and on container labels, within recognized tolerances. THE FOREGOING WARRANTIES ARE IN LIEU OF AND EXCLUDE ALL OTHER WARRANTIES NOT EXPRESSLY SET FORTH HEREIN, WHETHER EXPRESSED OR IMPLIED BY OPERATION OF LAW OR OTHERWISE, INCLUDING, BUT NOT LIMITED TO, ANY IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, TITLE AND NON-INFRINGEMENT.

**LIMITATION OF REMEDY**

PURCHASER'S SOLE AND EXCLUSIVE REMEDY SHALL BE REFUND OF THE PURCHASE PRICE. SELLER'S LIABILITY, WHETHER FOR BREACH OF CONTRACT, BREACH OF WARRANTY, NEGLIGENCE, PRODUCTS LIABILITY OR ANY OTHER THEORY OF LIABILITY, IS LIMITED TO THE AMOUNT OF THE PURCHASE PRICE. PURCHASER AGREES THAT IN NO EVENT, REGARDLESS OF THE FORM OF LEGAL ACTION OR THE THEORY OF RECOVERY, WILL SELLER BE LIABLE FOR CONSEQUENTIAL, INCIDENTAL, SPECIAL, INDIRECT OR PUNITIVE DAMAGES INCLUDING, BUT NOT LIMITED TO, LOSS OF PROFITS OR REVENUES.

**USE RESTRICTION**

Merchandise is not intended for sale to large-scale commercial growers of herbs or vegetables. Use, transfer and/or acquisition of merchandise constitutes acceptance of a limited right to use the merchandise solely to grow a single crop for food, feed, processing or ornamental purposes. No other use is permitted. Any transfer of merchandise must be accompanied by this use restriction.

**MANDATORY ARBITRATION**

ANY CLAIM WHICH PURCHASER MAY HAVE AGAINST SELLER ARISING OUT OF OR RELATING TO THE SALE OF THE GOODS HEREUNDER MUST BE BROUGHT, IF AT ALL, WITHIN TWELVE (12) MONTHS OF THE DELIVERY OF THE GOODS WHICH ARE THE SUBJECT OF THE CLAIM AND SHALL BE SETTLED BY BINDING ARBITRATION IN ACCORDANCE WITH THE COMMERCIAL ARBITRATION RULES OF THE AMERICAN ARBITRATION ASSOCIATION, SAID ARBITRATION TO BE VENUED IN COOK OR DUPAGE COUNTIES, ILLINOIS.

**GOVERNING LAW, JURISDICTION & VENUE**

The laws of the State of Illinois, including but not limited to the Uniform Commercial Code as adopted therein, shall govern all matters arising out of or relating to Seller's sale of merchandise. ANY DISPUTE NOT SUBJECT TO ARBITRATION AND ANY ACTION TO ENFORCE AN ARBITRATION AWARD ARISING OUT OF OR RELATING TO THE SALE OF MERCHANDISE HEREUNDER SHALL BE MAINTAINED IN THE STATE OR FEDERAL COURTS LOCATED IN DUPAGE OR COOK COUNTIES, ILLINOIS, AND PURCHASER SUBMITS TO THE JURISDICTION OF AND VENUE IN SAID COURTS.

**INDEMNITY**

By accepting the Goods, Purchaser agrees to indemnify, defend and hold harmless Seller, its affiliates, successors and assigns from and against any claim or liabilities, claims, demands, damages, losses and expense (including attorney's fees) asserted by any or all transferees of such Goods or users of the products of such Goods (i) arising from any act or omission of Customer or its employees or agents, or (ii) who were not notified by Purchaser in writing of Limitation of Warranty, Limitation of Remedy, Mandatory Arbitration, Governing Law, Jurisdiction and Venue, and Notice Regarding Seed-Borne Diseases, in language substantially equivalent to that contained in these Terms and Conditions of Sale.

**TRADEMARKS**

\* denotes a U.S. registered trademark and <sup>™</sup> denotes a trademark of Ball Horticultural Company, unless otherwise indicated.

**SALE LIMITATIONS**

**EXPORT CONTROL**  
PANAMERICAN SEED PRODUCTS ARE NOT AVAILABLE FOR SALE IN AND MAY NOT BE RESOLD INTO AUSTRALIA, NEW ZEALAND, KOREA, BRAZIL AND SOUTH AFRICA.

**U.S., EU, OR U.N. SANCTIONS PROGRAMS**

THE BUYER IS PROHIBITED TO SELL, DIVERT, TRANSFER, TRANSACT, OR RE-EXPORT, DIRECTLY OR INDIRECTLY, TO ANY INDIVIDUAL, ENTITY, OR DESTINATION SUBJECT TO U.S., EU, AND U.N. SANCTIONS PROGRAMS (E.G., NORTH KOREA, IRAN, CUBA, SYRIA, AND CRIMEA REGION OF UKRAINE). THIS INCLUDES, BUT IS NOT LIMITED TO, THE UNITED STATES DEPARTMENT OF TREASURY'S OFFICE OF FOREIGN ASSETS CONTROL (OFAC) SANCTIONS AND THOSE LISTED ON THE OFAC SPECIALLY DESIGNATED NATIONALS (SDN) LIST.

**GLOBAL ANTI-CORRUPTION POLICY**

EACH PARTY AGREES TO COMPLY WITH ALL APPLICABLE LAWS COVERING BRIBERY, ANTI-CORRUPTION, AND MONEY LAUNDERING IN ALL COUNTRIES IN WHICH THE COMPANY DOES BUSINESS OR OPERATES. THIS INCLUDES, BUT IS NOT LIMITED TO, THE FOREIGN CORRUPT PRACTICES ACT (FCPA), UNDER WHICH IT IS UNLAWFUL TO OFFER, PAY, OR PROMISE TO PAY MONEY OR ANYTHING OF VALUE TO ANY FOREIGN OFFICIAL TO OBTAIN OR RETAIN BUSINESS.

**IMAGES**

High and low-resolution digital images are available upon request. Please contact [photolibrary@ballhort.com](mailto:photolibrary@ballhort.com) or Fax: +1 (0) 630 562-7887.

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Visit [panamseed.com](http://panamseed.com) for current Terms & Conditions of Sale and current Variety Protection Information.



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**PLANT PROTECTION**

Many PanAmerican Seed and Kieft Seed varieties are protected by U.S. Patents and/or Plant Breeders' Rights in Europe and elsewhere. Find the complete protection information list on page 232.

**EU 10351, etc.:** European Community Plant Variety Rights

**EU PBRAF:** European Community Plant Variety Rights Applied For

**EU PAF:** European Utility Patents Applied For

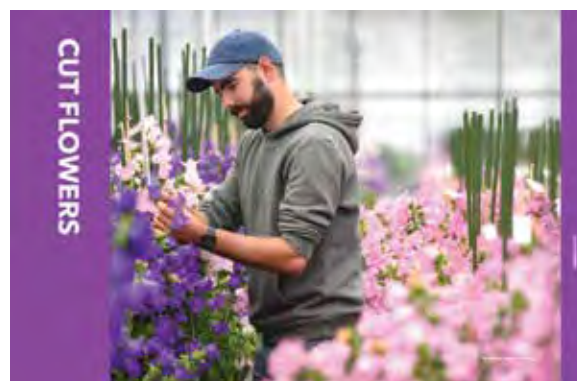
**PCT:** International Patent Applied For

**US 7,915,504, etc.:** U.S. Utility Patents

**PPAF, US PAF:** U.S. Patents Applied For

**US PVP 9500027, etc.:** U.S. Plant Variety Protections

**US PVPAP:** U.S. Plant Variety Protections Applied For



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# GLOBAL CUSTOMER SERVICE STANDARDS

Empowering our customers through exceptional customer service



## CUSTOMER FIRST PHILOSOPHY

- An **exceptional customer experience is our top priority.**
- We understand that our customers' needs are not one-size-fits-all and we are **committed to providing individualised 1:1 service** to each and every customer.



## INDIVIDUALISED 1:1 SERVICE

- Each of our customers is **assigned a dedicated PanAmerican Seed Global Customer Service Representative** to support their business needs.
- PanAmerican Seed Global Customer Service Representatives are driven to **develop real working relationships** with both customers and external sales representatives acting in their interest.
- In a world full of customer service bots and automated answering services, the PanAmerican Seed Global Customer Service team maintains the core belief that **world-class service only comes from the human touch.** Our customers work every step of the way with an individual who is trained to facilitate successful outcomes on their behalf. Expect real people dedicated to real solutions.
- We are **proudly selective.** Only the most dynamic and adaptive individuals are hired for our customer service team. Once on our team, they are **extensively trained** to be experts in our products, processes, regulations, policies and customer needs.



## TRANSPARENT COMMUNICATION

- Upon receiving a customer service inquiry, the dedicated PanAmerican Seed Global Customer Service Representative will **provide a response within 24 hours.**
- If a customer's dedicated representative is out of the office at any point during the time of an inquiry, instructions about who to contact in their absence will be included in an auto-response.
- Communications from dedicated PanAmerican Seed Global Customer Service Representatives **will always be transparent.** By sharing what we know, when we know it, we'll help our customers set realistic expectations about when to anticipate final outcomes on inquiries.



## ORDER FULFILLMENT

- All order fulfillments from start to finish **are overseen by our Global Customer Service Representatives.**
- Customers **will be advised on the status** of the items in their orders as soon as the information is available.



**ACCURATE INVENTORY STATUS**

- Using all the tools available to us, we inform customers of the **availability of an item to ship** on their requested ship date. Should an item be unavailable, an estimated availability date will be provided.
- If a customer does not wish to wait until the next date of product availability, our Global Customer Service Representatives can suggest an ideal alternative product to meet our customer’s individual needs.



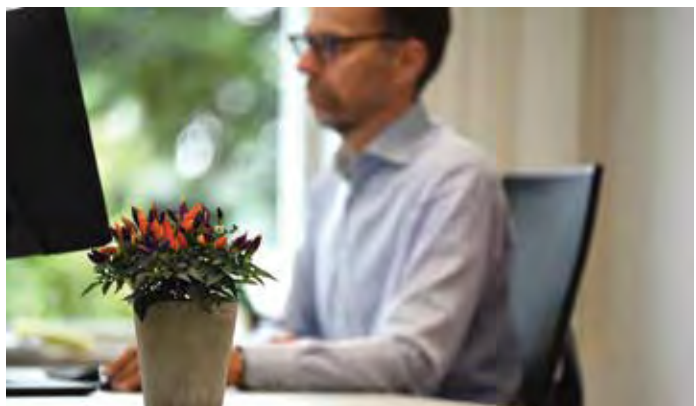
**EXPORT**

- Working in partnership with each customer, we **assess and comply** with the requirements for shipping based on their specified country.
- Each dedicated Global Customer Service Representative **manages order shipments** and keeps a detailed account of their customers’ order requirements, such as shipment documentation, additional declarations and testing requirements. Any requirements that involve an action performed by the customer will always be clearly communicated.
- The Global Customer Service team is informed on the **inspection dates of products**, as well as where to locate the original and final inspection reports.



**RETURN POLICY**

- Refer to our terms and conditions for full details.



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