

PanAmerican Seed®

2028
NEW VARIETIES

ELEVATE YOUR GROWING SEASON

At PanAmerican Seed®, innovation is at the core of what we do. Our team pushes the boundaries every day, seeking solutions to **help our customers perform better.** We strive to develop more successful varieties and introduce new colours to fill your programs. We want to partner with you for a successful growing season now and into the future.

With these goals in mind, we've launched several top-quality seed products for 2028 that will **elevate your production season** to new heights!

- **NEW Classique™ Calibrachoa** offers a classic vegetative-to-seed conversion! With 4 core colours, you can depend on Classique to take calibrachoa sales back!
- With bright colours and excellent heat tolerance, **NEW Meridien Lobelia** makes an exceptional addition to full-sun combinations and containers throughout the Summer.
- **NEW Orange Red Stardust** is the first bicolour to join the Beacon® Impatiens offering! With two vibrant blooms splashed with white stars, this impressive plant brings brighter colour for the shade.
- Wave® Petunias and Pansies shake up early sales! You'll find 3 new **Top Wave™** pansies in yellow hues, along with a rosy bicolour for **E3 Easy Wave®** and **NEW Easy Wave® Light Blue Vein** petunias to crank up the colour on early-season benches.

When you work with PanAmerican Seed, you can rely on the strongest genetics, highest seed quality and superior garden performance to **make the season a success** for you and your customers.

Visit **panamseed.com** for more details about our high-performance products that make growing easy!



WAVE



ANNUALS



PERENNIALS

MEET OUR COVER STARS!



Ruud Brinkkemper, PanAmerican Seed, General Manager & Regional Breeding Director for Europe



NEW Beacon® Orange Red Stardust Impatiens

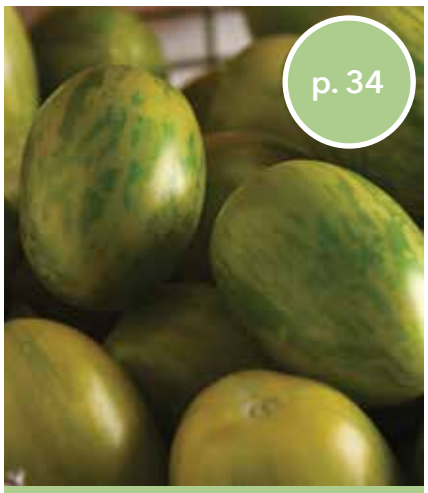
NEW Beacon® Orange Red Stardust Impatiens



POTTED PLANTS



CUT FLOWERS



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PRO LANDSCAPE PERFORMER

The varieties listed with this icon are plants that excel in professional landscape applications, no matter what challenges they face. Whether it's heat and humidity, drought or rain, these plants get the job done. Look for the Pro Landscape Performer icon for plants that will make you look good all season long.

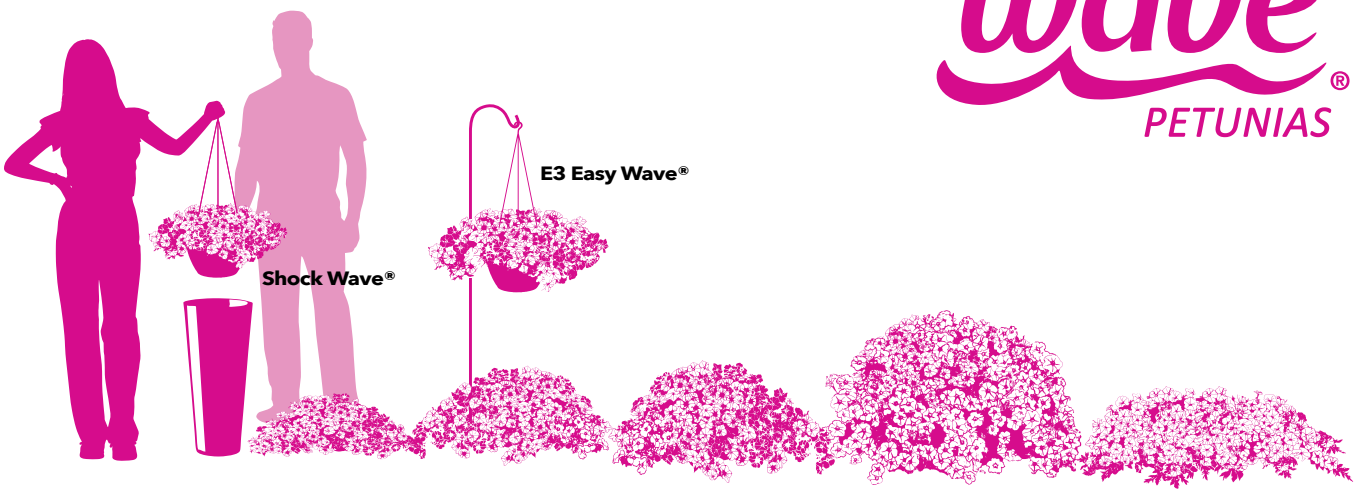
Visit panamseed.com/landscape to find helpful plant lists and a plant calculator tool to help you plan your next landscape design.

WAVE



NEW E3 Easy Wave Rose Charm Petunia

wave® PETUNIAS



Shock Wave® Series	E3 Easy Wave® Series	Easy Wave® Series	Tidal Wave® Series	Original Wave® 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)

SPREADING PETUNIA
Petunia x hybrida

E3 Easy Wave® Series F1

PRO LANDSCAPE PERFORMER

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

- It's **E**arly, it's **E**fficient, it's the **E**volution of Easy Wave®… it's **E3!** Kick off petunia sales at retail even earlier.
- 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.

NEW Rose
Rich, blue-based rose-coloured flowers hold their colour well in high light, low-humidity conditions. Plant vigour is approximately 15% less than Easy Wave Rose, and the colour is similar, with less pronounced veining. Flowers at 9 hours photoperiod and is cold durable.

NEW Rose Charm
Good consistency to the bicolour pattern, though it can be influenced by PGR (daminozide) and temperature. 10-hour photoperiod requirement. Excellent branching, fast secondary blooming and very good holding. Cold durable.



Rose



Rose Charm



Light Blue Vein



White Improved

wave® PETUNIAS

Easy Wave® Series F1

PRO LANDSCAPE PERFORMER

Height: 6 to 12 in./15 to 30 cm
Spread: 30 to 39 in./76 to 99 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.

NEW Light Blue Vein
Prominent dark vein pattern stands out against the light blue petals. Excellent branching, fast secondary flowers and very good holding. 10.5-hour photoperiod requirement. Dense habit that mixes well with other series colours and Caliburst™ Yellow.

NEW White Improved
Offers a larger, flatter flower and smoother flower margin, with thicker petals. Clean white blooms have less green veining than original White. Flowers hold well through the season. Well branched with increased centre flowering and faster secondary flowers. Flowers at 9 hours photoperiod and is cold durable.

NEW Formula Mixture Improved
Includes NEW White Improved.

NEW Great Lakes Mixture Improved
Includes NEW White Improved.

NEW Starfish Mixture Improved
Includes NEW White Improved.

NEW The Flag Mixture Improved
Includes NEW White Improved.



NEW

Formula Mixture Improved



NEW

Great Lakes Mixture Improved



NEW

Starfish Mixture Improved



NEW

The Flag Mixture Improved

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.



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

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



NEW
Yellow

The View's Better On Top!

Wave® Pansies are your top choice for premium pots and mixed containers for the cool season! With the largest flowers of any spreading pansy series, and a nicely mounded shape at point of sale, Top Wave beats 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.

wave® PANSIES

SPREADING PANSY
Viola x wittrockiana

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

- Top Wave 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 Yellow
Bright yellow colour on nicely mounded plants.

NEW Yellow Blotch
Vivid yellow bloom has a black centre blotch.

NEW YTT
Yesterday, Today and Tomorrow (YTT) flowers open white and morph to periwinkle blue over time for a multicolour show on the same plant.



Yellow Blotch



YTT

ANNUALS



NEW Classique White Calibrachoa

ANGELONIA
Angelonia angustifolia

Serena® Series F1

PRO LANDSCAPE PERFORMER

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.
- Carefree, season-long 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

NEW Mixture Improved
Blue, Magenta, Purple, Rose and White.



Serena Mixture Improved

Serenita® Series F1

PRO LANDSCAPE PERFORMER

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.

NEW Mixture Improved
Cherry Red, Pink, Purple, Sky Blue and White.



Serenita Mixture Improved

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.



Galactic White Bacopa

Vigorous addition for large-flowered seed bacopa

Series features the largest white-flowered seed bacopa on the market. Galactic Compact White (formerly Galactic Mist White) is joined by NEW White, with a more vigorous plant habit. The series offers a larger flower size that is similar to several vegetative varieties, providing a conversion opportunity in this class. And, the benefit of a seed input means no pinching and no cleaning before shipping.



Megawatt Rose Green Leaf Improved Begonia

MEGAsize + MEGAcolour = MEGAsales!

This radiant and reliable begonia option has quickly proven itself in the marketplace with great timing benefits and ultimate garden power. The large flowers offer amazing colour for gardeners.

BACOPA

Sutera cordata

Galactic Series F1

Height: 6 to 8 in./15 to 20 cm
Spread: 10 to 12 in./25 to 30 cm
Flower size: 0.25 to 0.5 in./1 cm

Seed supplied as: Pelleted

Plug crop time: 4 to 6 weeks
Transplant to finish: Spring 5 to 10 weeks

- The flower size is similar to several vegetative genetics and is approximately 3 times the bloom size of Snowtopia®.
- NEW White is more vigorous, similar to standard vegetative varieties, while Compact White has a more mounded, compact habit.
- Snowtopia has a more vigorous habit and flowers 5 to 7 days earlier than the Galactic Series.
- The Galactic Series resolves the issue of too-early flowering and the cleaning requirements of vegetative genetics, as the plant fully develops prior to flowering.

NEW White

BEGONIA

Begonia interspecific

Megawatt™ Series F1

PRO LANDSCAPE PERFORMER

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 endless 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, containers and borders.

NEW Rose Green Leaf Improved
Improved for more intense flower colour and better branching habit. Has more flowers on top of the plant, but still holds up to humidity, heat and longer periods between watering.

CALIBRACHOA
Calibrachoa spp

Classique Series

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

Seed supplied as: Pelleted

Plug crop time: 5 to 6 weeks
Transplant to finish:
Spring 6 to 9 weeks

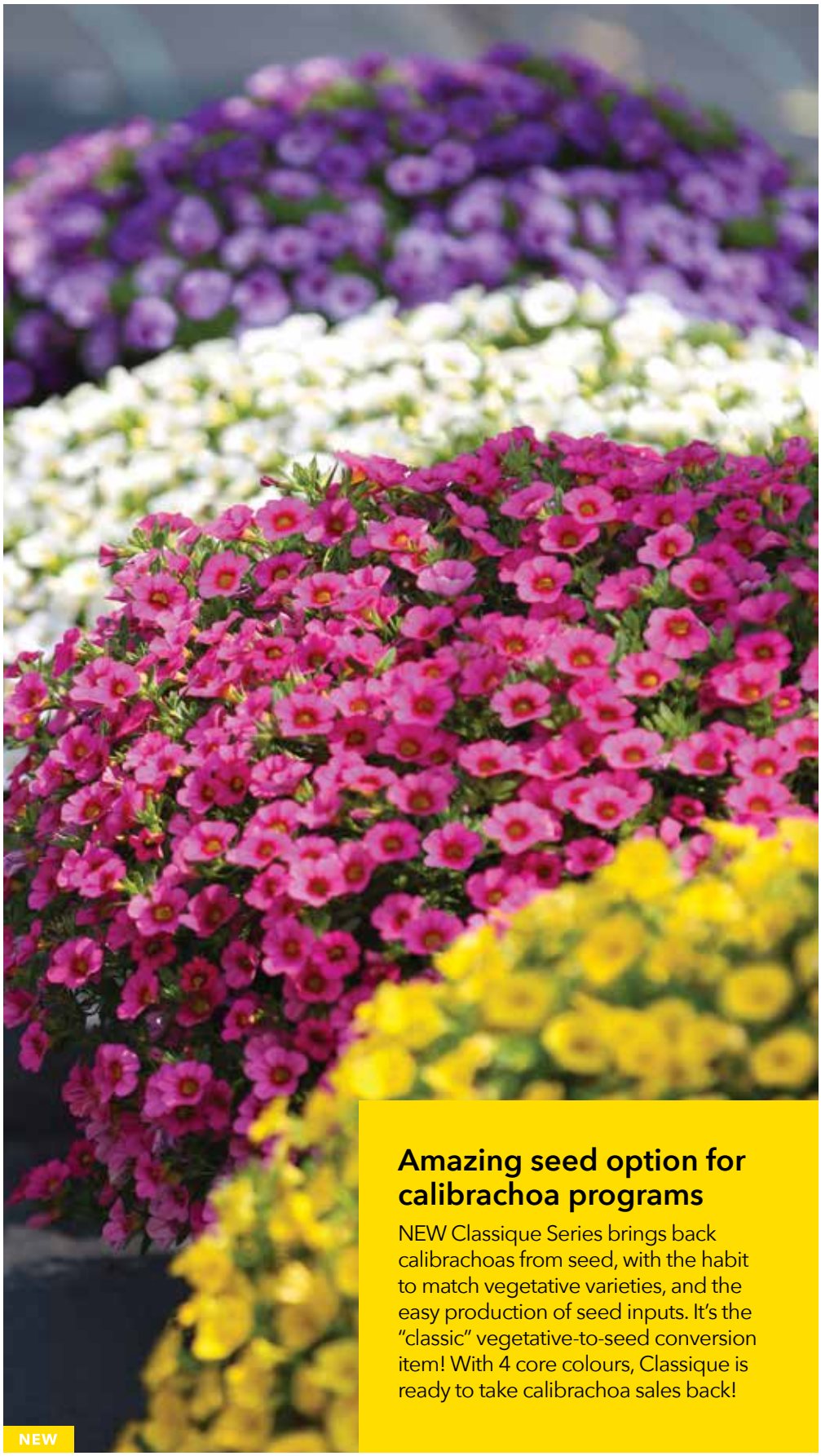
- Floriferous plants have a rounded, controlled habit to match vegetative standards.
- Great for quarts to baskets.
- Seed form eliminates common liner problems, like early flower initiation, tip abortion or shipping challenges, and no pinching is needed for this series.
- Seed quality in the core colours is a high priority to ensure that Classique will be a dependable option.
- All colours have a 10-hour or less daylength requirement.

NEW Denim
Colour shades from mid- to light blue.

NEW Rose Blast
Features two-tone petals in rose and magenta with a burst of bright yellow in the centre.

NEW White
The most compact of the series.

NEW Yellow
Features blooms in a solid yellow colour. Runs in the middle of the series for vigour.



NEW

Classique Series

Amazing seed option for calibrachoa programs

NEW Classique Series brings back calibrachoas from seed, with the habit to match vegetative varieties, and the easy production of seed inputs. It's the "classic" vegetative-to-seed conversion item! With 4 core colours, Classique is ready to take calibrachoa sales back!


NEW

Denim


NEW

Rose Blast


NEW

White


NEW

Yellow

PanAmerican Seed.



NEW

White and Yellow



NEW

Denim, Yellow and White

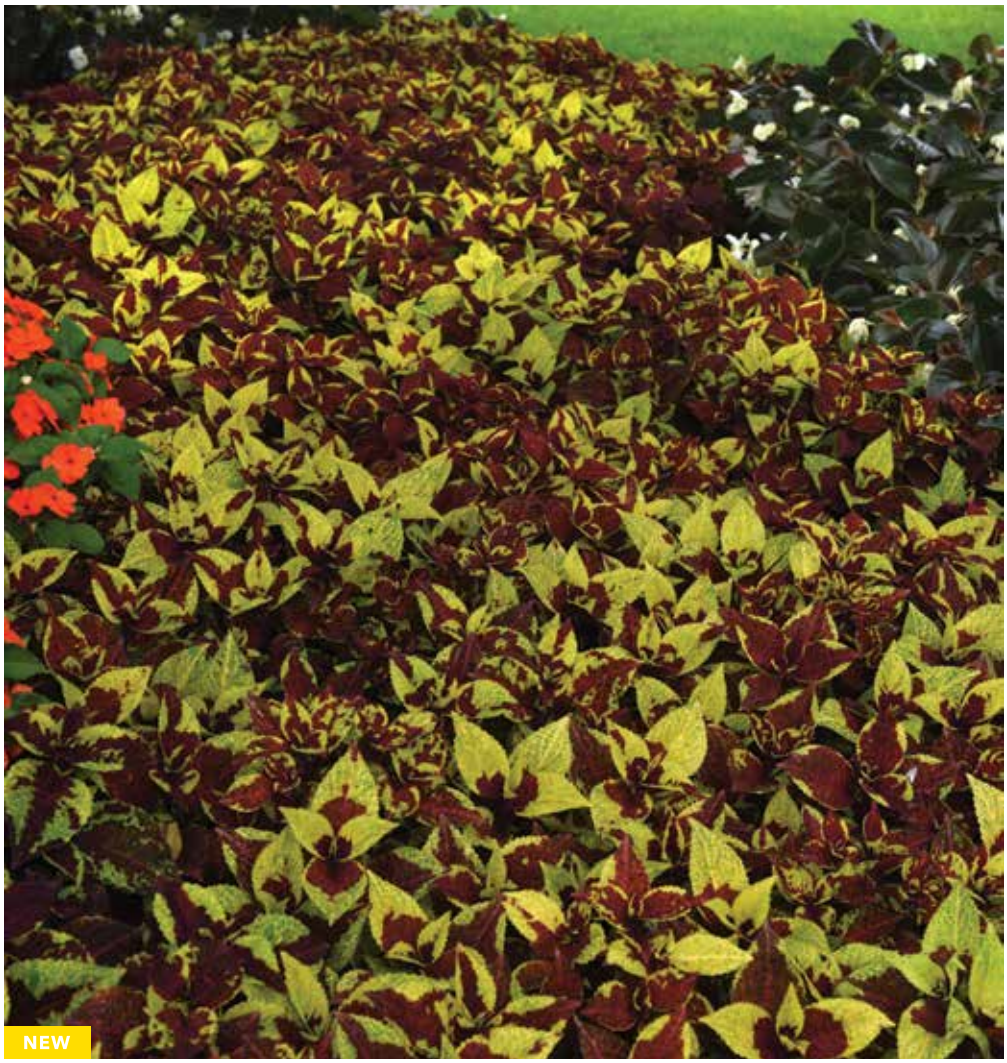


NEW

Rose Blast, E3 Easy Wave Rose Petunia and Meridien Bright Blue Lobelia



Golden Pineapple



Golden Pineapple

COLEUS, PREMIUM SUN

Solenostemon scutellarioides

NEW Golden Pineapple

PRO LANDSCAPE PERFORMER

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

Seed supplied as: Pelleted

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.

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

- Bright chartreuse leaves are patterned with unique burgundy splashes.
- This variety maintains a medium-mounded habit and is later to flower when compared to other seed coleus.
- It is an improvement on Pineapple Surprise, demonstrating a more stable bicolour splash pattern and later flowering.

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.
- Heat-loving series is a good option for Spring or Summer production, as it is 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.

NEW Red Splash
Very striking two-toned red and purple flowers.

NEW Violet Splash
Bold, saturated violet blooms have dark purple centres.

Perfect pollinator garden plant!

These beautiful cuphea blooms are a natural source of pollinator-attracting nectar, providing gardeners with a lively backyard gathering place for bees and hummingbirds.



Red Splash



Violet Splash



Red Splash



Violet Splash



NEW
Lavender Magician

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.

DART™ DIANTHUS

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^2/m^2 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.

NEW Lavender Magician
Taller and slightly more vigorous than the rest of the series, especially Pink Magician, so combining them is not recommended. This is the more vigorous Magician colour option. Times well with the series.

SOLARSCAPE®

INTERSPECIFIC IMPATIENS
Impatiens hybrida

Solarscape® Series F1

PRO LANDSCAPE PERFORMER

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 to part-shade 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.
- Seed-propagated Solarscape provides similar garden performance to 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.

NEW Tropical Energy Mixture
Includes Magenta Bliss and White Pearl, along with a new bright orange future introduction.



Tropical Energy Mixture

Glowing colour for sun AND shade spaces

Solarscape seed-propagated interspecific impatiens provides unbeatable colour in full-sun and part-shade garden beds and containers. Durable Solarscape makes a strong display in the sun, similar to vegetative varieties with the flexibility of seed.

BEACON®
IMPATIENS

VIBRANT COLOURS LIGHTEN THE SHADE

The first bicolour addition has joined Beacon! **NEW Orange Red Stardust** lights up the shade with electrifying orange with white star and red with white star blooms with a consistent pattern under different conditions. It takes centre stage in **NEW De Ven Mixture** as well. These new colours expand the popular series that grows well in the shade and offers high resistance to the widely prevalent populations of *Plasmopara destructor,* the cause of Impatiens downy mildew. This well-known series is suitable for packs, pots, hanging baskets and in-ground beds.

Visit ***beaconimpatiens.com*** for more details on the Beacon story.



Orange Red Stardust US 10,285,362; US 11,166,424; EU PAF

IMPATIENS
Impatiens walleriana

Beacon® Series F1

PRO LANDSCAPE PERFORMER

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: Raw, 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 Orange Red Stardust
First bicolour brings the WOW! Features 2 bicolour blooms on one plant: 50% show orange with a white star and 50% show red with a white star. White stardust pattern is consistent in size under different conditions.

NEW De Ven Mixture
A bold mix of NEW Orange Red Stardust, Bright Red, Orange and White. Named for De Ven Lighthouse of Enkhuizen, Netherlands.



NEW

Orange Red Stardust US 10,285,362; US 11,166,424; EU PAF



NEW

De Ven Mixture

De Ven Lighthouse
Enkhuizen, Netherlands


NEW
Bright Blue


NEW
Pearl White


NEW
Sky Blue

LOBELIA
Lobelia erinus

Meridien Series F1

Height: 10 to 12 in./25 to 30 cm
Spread: 16 to 18 in./41 to 46 cm
Flower size: 0.5 in./1 cm

Seed supplied as: Pelleted

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

- Brings the cool colour of lobelia to the heat of Summer!
- Medium premium basket habit.
- More uniformity of habit and germination than other F1 lobelia on the market.
- Makes an exceptional addition to full-sun combinations and containers.
- By lighting in the plug stage, this series can be brought into flower all at the same time.

NEW Bright Blue
Brings a fresh blue colour on a medium habit, a top choice for medium-vigour mixed baskets. Matches nicely in habit with Sky Blue and Pearl White.

NEW Pearl White
Showcases a crisp white flower with lavender undertones on a medium, premium basket-type, heat-tolerant lobelia.

NEW Sky Blue
Brings a calm sky blue colour on a medium premium basket habit. While this variety is a little more controlled in its size, it matches up well with Bright Blue and Pearl White.

Excellent performance in the heat

This premium F1 seed lobelia collection was selected for high seed quality, uniformity and heat tolerance that rivals vegetative lobelia on the market.

PanAmerican Seed.

Meridien XL Early Blue F1

Height: 12 to 14 in./30 to 36 cm
Spread: 18 to 20 in./46 to 51 cm
Flower size: 0.5 in./1 cm

Seed supplied as: Pelleted

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

- Clean blue flowers and a more vigorous habit.
- The earliest to flower under natural daylength of the Meridien varieties.
- Best suited for hanging baskets and containers.

Best for bigger baskets in the heat

Exceptional heat tolerance and full plant habit make it ideal for combinations with more vigorous components.



NEW

XL Early Blue



NEW

XL Early Blue



Spring Matrix Sunrise Surprise Pansy



Lucky Star Bright Red Pentas

PANSY

Viola x wittrockiana

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

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

NEW Sunrise Surprise
Blooms in soft peach tones show more yellow tones under higher light. Colour intensity varies depending on light levels and Spring conditions. The plant has a very good flower position of looking up.

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

- With fast follow-up blooming 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 Bright Red
Features a bright scarlet-red colour with flowers on top. Approximately 3 to 4 days earlier than standard reds on the market.

VINCA
Catharanthus roseus

Titan™ Series F1

PRO LANDSCAPE PERFORMER

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.

NEW Coral
Coral-orange blooms have dark centres for a novel appearance in both containers and landscapes.

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.

VIOLA
Viola cornuta

Sorbet® XP Series F1

PRO LANDSCAPE PERFORMER

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.

NEW Red Wing
Nice colour combination of cheerful yellow face and red cap. The shade of red can vary depending on environment, ranging from bright red to brick red.

NEW Rose Wing
Rose cap with a white face that can show lemon in warm temperatures.

NEW Sweet Pink
A truly unique colour for the class! Soft pink colour can shade from light to dark, providing greater consumer appeal.



Titan Coral Vinca



Sorbet XP Red Wing Viola



Sorbet XP Rose Wing Viola



Sorbet XP Sweet Pink Viola

PERENNIALS



NEW Salvia Salvatini

ALCHEMILLA
Alchemilla mollis

NEW Irish Satin

PRO LANDSCAPE PERFORMER

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

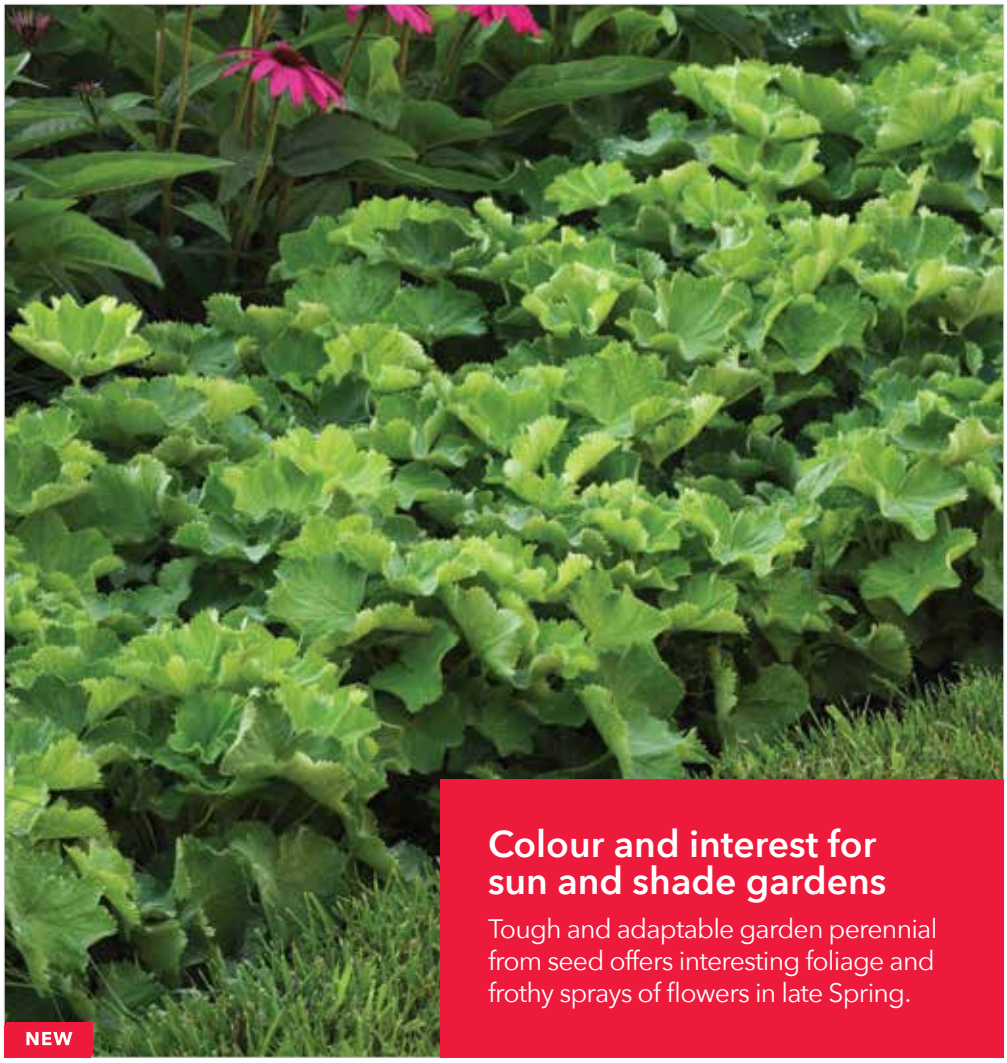
USDA Hardiness Zones:
3a to 8b (-40 to 15°F/-40 to -9°C minimum temperatures)

Seed supplied as: Raw

Plug crop time: 5 to 7 weeks
Transplant to finish:
10 to 12 weeks

- Tough, long-lived seed perennial makes a nice groundcover or foliage perennial for sun and shade garden applications.
- Features scalloped, round, velvety leaves on a mounded plant habit.
- In late Spring, this plant sends out arching, yellow-to-chartreuse, small flower clusters.

Available in North America and China.



Colour and interest for sun and shade gardens

Tough and adaptable garden perennial from seed offers interesting foliage and frothy sprays of flowers in late Spring.

Irish Satin



Irish Satin



Sky Blue



White

LAVANDULA
Lavandula angustifolia

Ellagance Series

Height: 12 to 14 in./30 to 36 cm
Spread: 10 to 12 in./25 to 30 cm
Flower size: 0.2 to 0.4 in./1 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, colour range, 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 silver-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.

NEW Sky Blue
A unique colour for English Lavender, with its sky-blue blooms and white bracts. Features a well-branched and upright habit. Great for combinations with Purple and Avignon Early Blue, adding value in combo programs.

NEW White
Brings a true white colour to English Lavender from seed. This in-demand colour option also makes a great companion for purple, blue and white combos, with all finishing at the same time and with matching habits for a new sales-making opportunity.

Your full Lavender program in one place!

Find four great varieties to boost your regionally focused program of *Lavandula angustifolia* from PanAmerican Seed. With Blue Spear, Avignon Early Blue, the Ellagance Series and Lavance Deep Purple, we have all the seed Lavender you'll need. Find detailed information in our regional Lavender Scheduling Tool at panamseed.com/perennials.

LUPIN
Lupinus polyphyllus

Legendary Series

Height: 20 to 25 in./51 to 64 cm
Spread: 12 to 14 in./30 to 36 cm
Flower size:
10 to 12 in./25 to 30 cm

USDA Hardiness Zones:
4a to 8b (-30 to 15°F/-34 to -9°C minimum temperatures)

Seed supplied as: Coated

Plug crop time: 6 to 10 weeks
Transplant to finish:
10 to 12 weeks

- Graceful upright perennials have striking flower panicles and crisp palmate foliage.
- A strong, medium-vigour Lupin series from seed.
- Plants can be brought into flower quickly with daylength manipulation or vernalization.
- Vertical habit with showy blooms for impulse sales.
- Available in a range of 5 beautiful colours.

NEW Blue Shades
Medium-vigour plants bring a range of blue colours.

NEW Red Shades
A range of vibrant red colours.

NEW Rose Shades
Rose pink shades.

NEW White Shades
A range of white colours on tall flower spikes.

NEW Yellow Shades
A range of yellow colours.



Lupin Legendary Blue Shades



Lupin Legendary Red Shades



Lupin Legendary Rose Shades



Lupin Legendary White Shades



Lupin Legendary Yellow Shades

SALVIA
Salvia nemorosa

NEW Salvatini

Height: 8 to 11 in./20 to 28 cm
Spread: 9 to 11 in./23 to 28 cm
Flower size: 0.2 to 0.3 in./1 cm

USDA Hardiness Zones:
5a to 8a (-20 to 10°F/-29 to -12°C minimum temperatures)

Seed supplied as: Raw

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

- Very intense, deep purple-blue spikes and flowers stand out in gardens and landscapes.
- Strong, abundant flowering and controlled height are excellent for quarts.
- Compact and early to finish.



Salvia Salvatini

Deep, intense blue flower spikes

The uniformity and visual appeal of this compact *Salvia nemorosa* are comparable to vegetative varieties, with the flexibility and cost savings of a seed input. NEW Salvatini is ideal for driving sales in quarts.

POTTED PLANTS



ColorBloom Yellow with Dark Eye, Bicolor Orange Yellow, Deep Rose with Light Eye and Red with Light Eye Gerbera

GERBERA
Gerbera jamesonii

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.

NEW Mixture Improved
Includes Orange with Light Eye, and all the series colours except the bicolours.

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.



Mixture Improved



Mega Revolution Scarlet Red with Light Eye, Revolution Bright Rose with Light Eye and ColorBloom Bicolor Orange Yellow

CUT FLOWERS



NEW Early Potomac Bright Orange Snapdragon (3)

DIANTHUS
Dianthus barbatus

Sweet™ Series F1

Form Supplied As: Pelleted

Cultivation Type:
Greenhouse, High Tunnel
Planting Density:
42 to 64 plants/sq. metre
(4 to 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.

NEW Pink Improved
Features taller height for better quality stems and larger, more rounded flower heads than original Pink.

SNAPDRAGON
Antirrhinum majus

Early Potomac™ Series F1

Form Supplied As: Raw, Pelleted

Cultivation Type:
Greenhouse, High Tunnel
Planting Density:
64 to 106 plants/sq. meter
(6 to 10 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

NEW Bright Orange
Group 3 snapdragon offers a true, rich orange colour that works great for medium-to-long daylengths and moderate-to-high light levels.


NEW
Sweet Pink Improved Dianthus


NEW
Early Potomac Bright Orange Snapdragon (3)

VEGETABLES & HERBS



NEW Cosmic Swirl Green Tomato

TOMATO
Solanum lycopersicum

NEW Cosmic Swirl Collection F1

Height:
48 to 72 in./122 to 183 cm
Spread: 18 to 24 in./46 to 61 cm

Seed supplied as: Raw

Tomato Class: Roma/Paste
Type: Plum
Habit: Semi-determinate

Tomato Colour: Yellow-green with green stripes
Fruit Characteristics: Oblong
Fruit Size: 2.75 in./7 cm long x 1.75 in./4 cm wide, 2.5-3.25 oz. (71 to 92 g)

Tomato Colour:
Deep pink with green-yellow stripes
Fruit Characteristics: Oblong
Fruit Size: 2.75 in./7 cm long x 1.75 in./4 cm wide, 3-3.25 oz. (85 to 92 g)

Disease Resistance: HR: F1, LB
Days to maturity from transplant: 75-80

- Plants produce big harvests of rich, striped tomatoes.
- Fruit has a unique sweet flavour and large, juicy, plum shape.
- For Pink, harvest when the fruit is bright pink with the green stripe starting to get lighter in colour; for Green, harvest when the fruit starts showing a more yellow hue.
- Compared to open-pollinated varieties, the Cosmic Swirl Collection has a more controlled, semi-determinate plant habit, higher yield potential, more disease resistance, and often has fewer blemishes on the fruit.

Plum-perfect tomatoes

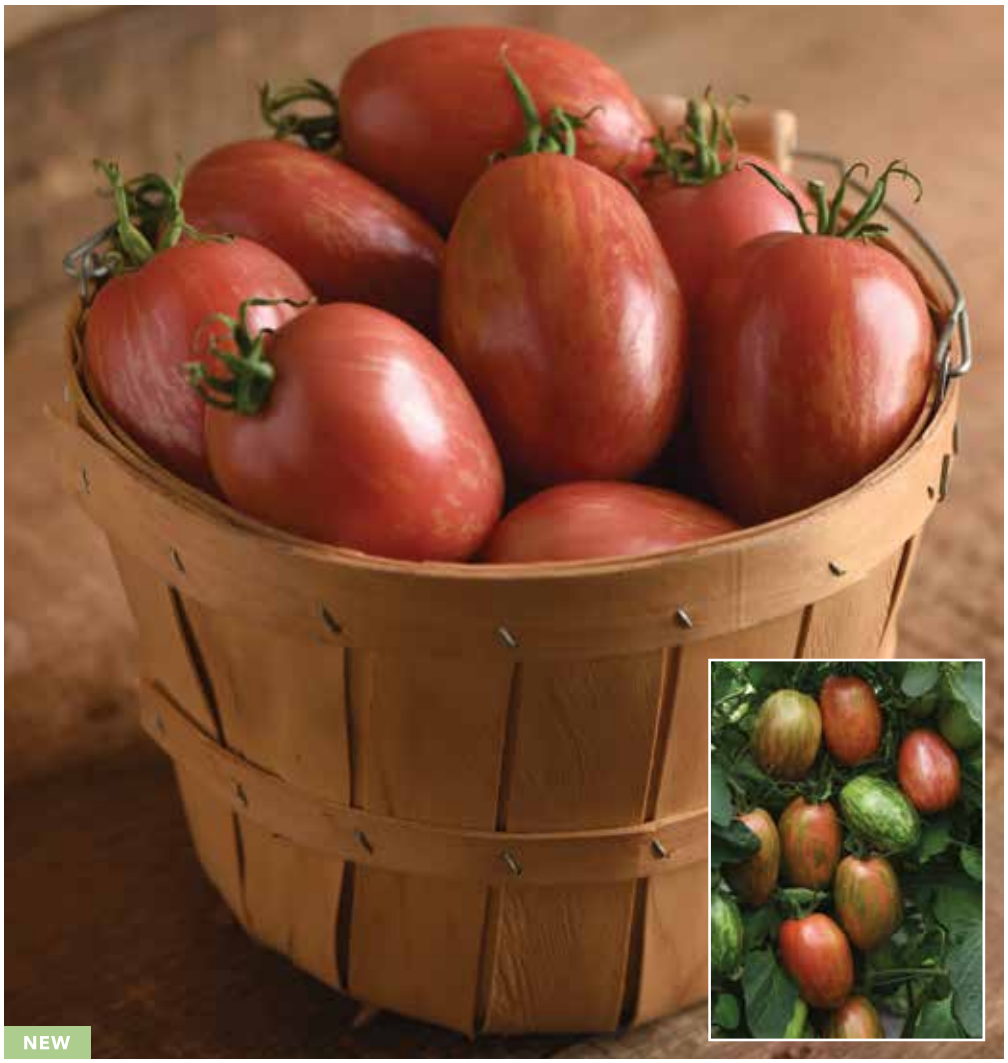
Home gardeners can upgrade their gardens with juicy tomato flavour and modern hybrid tomato performance with this new striped tomato collection.



Cosmic Swirl Green



Cosmic Swirl Green



Cosmic Swirl Pink



NEW

Epic Slice

Epic tomato flavour and disease resistance

NEW Epic Slice hybrid plants produce deep red beefsteak tomatoes with tasty tomato flavour! Consumers will enjoy loads of tasty fruit all Summer long!

NEW Epic Slice F1

Height: 36 to 48 in./91 to 122 cm
Spread: 18 to 24 in./46 to 61 cm

Seed supplied as: Raw

Tomato Class: Large-Fruited
Type: Beefsteak
Habit: Determinate

Tomato Colour: Red
Fruit Characteristics: Deep globe, large, round
Fruit Size: 2.75-3.5 in./7-9 cm long x 2.75-3.5 in./7-9 cm wide, 9-10 oz. (255 to 283 g)

Disease Resistance:
HR: F1&2, LB, TMV, ToMV, V
IR: SLS, TSWV
Days to maturity from transplant: 75

- Produces large, round, red beefsteak fruit and offers a great disease resistance package.
- Good-quality fruit features a bright red interior from the Crimson gene, along with classic tomato flavour.
- Plants are determinate, offering big harvests of large red beefsteaks all Summer long.



NEW

WonderStar Yellow

NEW WonderStar™ Yellow F1

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

Seed supplied as: Raw

Tomato Class: Large-Fruited
Type: Beefsteak
Habit: Determinate

Tomato Colour: Yellow
Fruit Characteristics: Oblate
Fruit Size: 2 in./5 cm long x 3 in./8 cm wide, 8-9 oz. (227 to 255 g)

Disease Resistance:
HR: F1, N, SLS, V
IR: LB
Days to maturity from transplant: 70-75

- An early-maturing, determinate hybrid that features heirloom-style, bright yellow fruit with great flavour.
- Offers more disease resistance than traditional determinate heirlooms on the market.
- Has a compact habit and performs well in small spaces.

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 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

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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.

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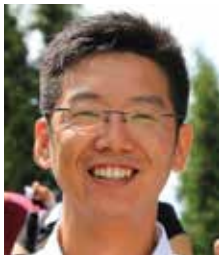


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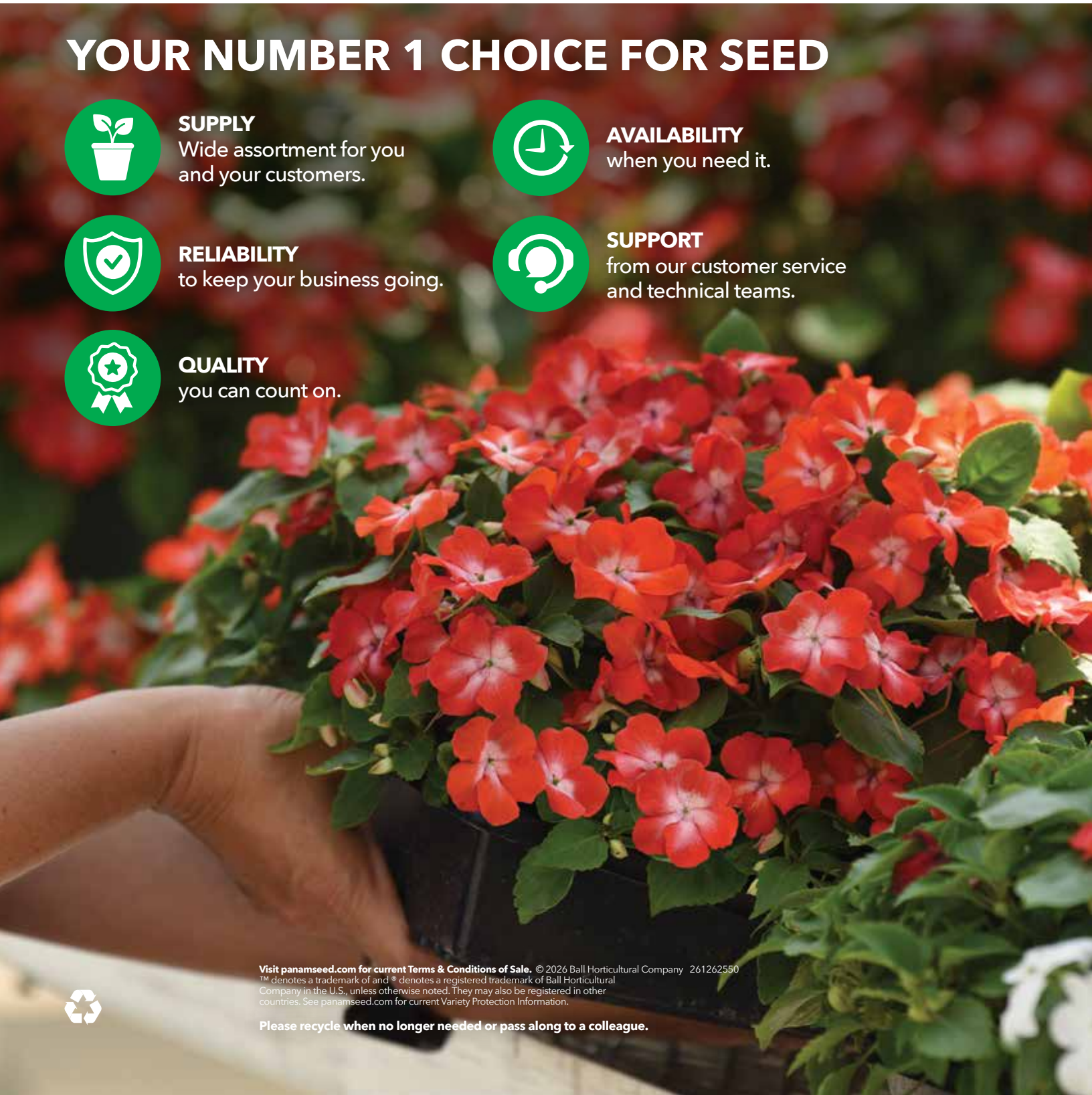
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