

2024

NEW VARIETIES



PanAmerican Seed®

INNOVATION INSPIRATION COMMUNICATION

You can rely on PanAmerican Seed® to provide you with **innovative** products, **high-quality** seed and **best-in-class** genetics to help you have your most successful growing season ever.

Find **inspiration** in these exciting **solutions** for all your growing challenges, such as our complete line of begonias. They offer **versatility** of use in containers, baskets, garden beds and landscapes. We've expanded our begonia offerings with more bloom colours and bronze leaf varieties, as well as a red and white mix from our recent Hula™ Spreading Begonia series. There's a begonia for every application.

More breakthrough introductions for 2024 include **NEW Petchoa Caliburst™ Yellow**, a vibrant petunia/calibrachoa from seed that stays naturally compact in baskets and mixes. **NEW Cuphea Sweet Talk™** is a 3-colour series that drives pollinators wild! You'll also see new colour additions for our most popular crops, like **Beacon® Impatiens**, **Easy Wave® Spreading Petunias** and an indoor/outdoor cucumber for the **Kitchen Minis™** series.

Visit panamseed.com for information and growing tips on the full seed lineup and get growing right away!



MEET OUR COVER STARS!

- E3 Easy Wave Yellow Petunia
- Hula Red and White Mixture Spreading Begonia
- Bluesette Perovskia
- Revolution Bicolor Mixture Gerbera
- Amazon Lavender Magic Dianthus
- Prism Pepper
- Beacon Pearl Island Mixture Impatiens



WAVE



ANNUALS



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 resources like:

- Find a Plant Supplier
- Plant Calculator
- Regional Plant Selector
- Build a Landscape Sell Sheet Tool

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VEGETABLES & HERBS

WAVE



Make your early season petunia sales 'Extra Easy' with Wave®!

Wake up petunia-season sales!

'Extra Easy' E3 Easy Wave will be ready to kick off petunia sales even earlier! Then follow it up with Easy Wave for season-long colour.

SPREADING PETUNIA ●

Petunia x hybrida

E3 Easy Wave® Series F1



Height: 6 to 12 in./15 to 30 cm
Spread: 25 to 32 in./64 to 81 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

- A Wave brand series that fulfills 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, which means simplified plant management.
- Plant holding capabilities across the series mean better quality over a longer time period for an extended sales window.

Easy Wave® Series F1



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

- Exceptional uniformity means simplified production, maximized plug yields and the ability to meet every ship date for every colour. Lets you grow specialty mixes, too!

- 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 offers 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 and hanging baskets.

Repositioned Yellow Formerly a part of the Easy Wave Series, Yellow now joins E3 Easy Wave, as it flowers at a 10-hour photoperiod, requires less PGRs and holds well to match the series.

New Sweet Taffy Mixture Includes Pink Cosmo, Yellow and Rose Morn (*not available separately*). This sweet mix flowers at 10 hours photoperiod and has a uniform, holding plant habit.

- 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 Blue Improved Plant structure and flowering time are the primary differences compared to original Blue. Improved for more mounded, denser branching and flowering in the center of the plant. Photoperiod is 9.5 hours, making it faster to flower than original Blue. Garden spread and performance match the series.



E3 Easy Wave Yellow



NEW
E3 Easy Wave Sweet Taffy Mixture



NEW
Easy Wave Blue Improved

ANNUALS



ASPARAGUS

Asparagus densiflorus
'Sprengeri'**New 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* 'Sprengeri' seed with higher germination.
- Higher germination provides growers with a money-saving option to produce a reliable plug with fewer seeds.
- The FuzzyFern collection 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 plus indoor and outdoor use for more versatility.

Reliable supply of higher-quality seed for a foliage staple

With a demand for *Asparagus densiflorus* 'Sprengeri' 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. Plus, it brings a fun texture to mixed containers, hanging baskets and indoor planters.



NEW

Frizz



NEW

Frizz



NEW

Red and White Mixture

SPREADING BEGONIA ●●

Begonia interspecific

Hula™ Series



Height: 6 to 10 in./15 to 25 cm
Spread: 20 to 27 in./51 to 69 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 of begonia that is highly branched with lots of small flowers.
- Its trailing habit is perfect for 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®.
- Small flowers compared to Megawatt™ or Dragon Wing®, but with the high number of flowers, it has great colour impact.
- Hula starts to spread at an early stage, and along with early flowering, it provides growers with a high-quality, attractive, salable plant that is covered with blooms at retail, in both hanging baskets and smaller pot sizes.

New Red and White Mixture

Mix of red and white blooms. The white variety has bigger flowers and is a pure white compared to the current blush variety. White is not available separately.

A new colour mix for this spreading begonia series

The addition of this high-impact red and white mix for the unique spreading begonia series expands your options for begonias that look great on the retail bench, as well as in hanging baskets and mixed containers.

BEGONIA SERIES



Dragon Wing®

Megawatt™

Hula™

BabyWing®

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.

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

- BabyWing is not daylength sensitive, so it is the first interspecific begonia 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.

New Red Bronze Leaf

A unique compact red on bronze foliage variety.

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, it surpasses vegetative varieties for branching, vigour and "flower power."
- Features best-in-class "bulletproof" performance, fast fill-in and an easy-care nature.

Georgia Gold Medal Winners

New Pink Bronze Leaf Bronze leaf variety with large pink blooms fits the series for habit and timing.

New Red Bronze Leaf Core red colour blooms are paired with bronze foliage; fits the unique series for plant habit and timing.

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.

New Red Bronze Leaf Improved

Offers better variety purity, eliminating green-leaf off-types, with deeper bronze foliage colour and improved plant habit with shorter internodes and great basal branching. Earlier to flower, how much earlier depends on daylength conditions.

Begonias to fill beds, baskets and containers

These fresh, high flower-power begonia options have quickly proven themselves in the marketplace with great timing benefits and ultimate garden power. These bigger-than-life hybrids offer amazing colour for gardeners.



NEW

BabyWing Red Bronze Leaf

NEW

Dragon Wing Pink Bronze Leaf

NEW

Dragon Wing Red Bronze Leaf

NEW

Megawatt Red Bronze Leaf Improved



NEW

AmeriHybrid Ruffled Red

TUBEROUS BEGONIA 🌱 🌱

Begonia x tuberosa

**AmeriHybrid®
Ruffled Series F₁**

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

New Red A vibrant red joins the series. Flower form varies from ruffled to roseform.

On Top® Series F₁

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

Seed supplied as: Pelleted

Plug crop time: 7 to 8 weeks
Transplant to finish: 8 to 13 weeks

- Offers a selection of novelty colours.
- 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.

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

New Surprise A nice mix of white and pink/rose bicoulor flowers.



NEW

On Top Polka Dot



NEW

On Top Surprise



**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.

**Show-stopping
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 such as Hardiness Zones 9 and 10. Foliage will scorch in full sun with low relative humidity. All are suitable for shade.

COLEUS ● ●
*Solenostemon
scutellarioides*



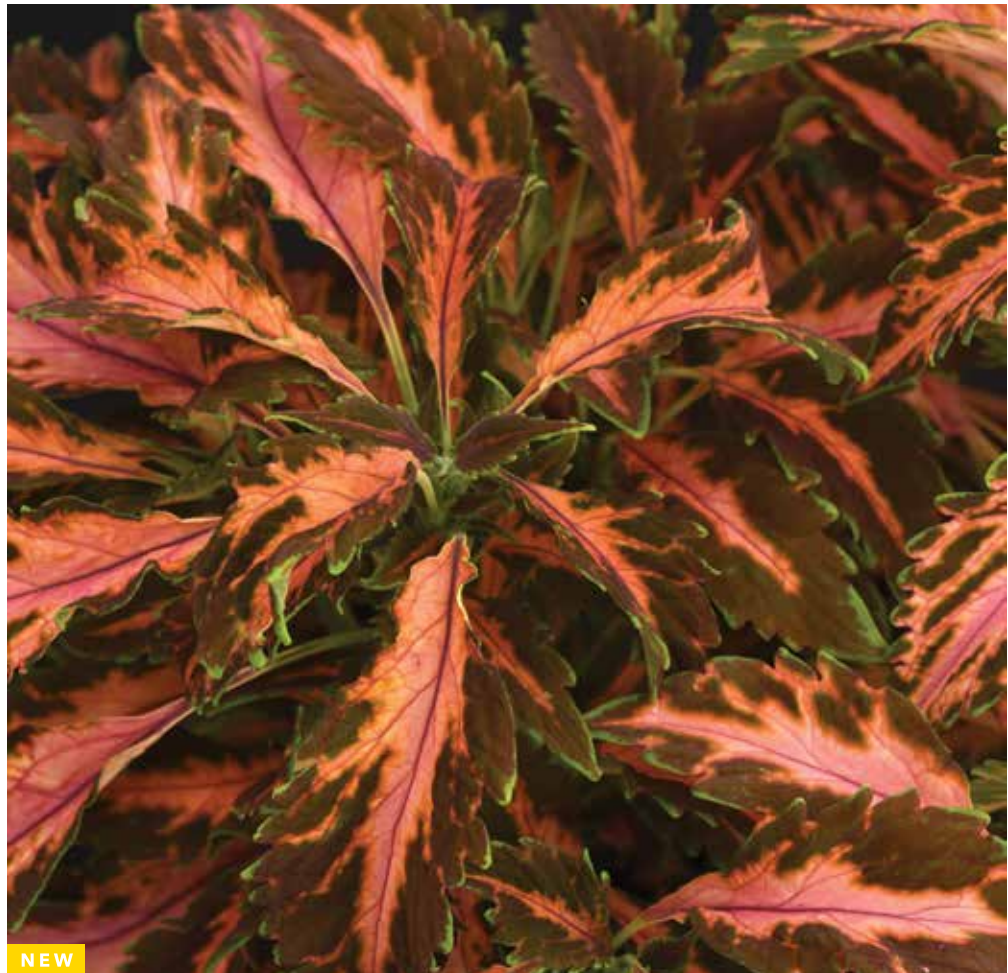
**New Premium Sun
Coral Candy**

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

Seed supplied as: Pelleted

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

- 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.



NEW

Premium Sun Coral Candy



NEW

Premium Sun Coral Candy



NEW

Deep Pink



NEW

Lavender Splash



NEW

Red



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 new heat-loving cuphea series from PanAmerican Seed!
- 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, 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, and include a true Red.

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

New Lavender Splash

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

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

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.

Crowned with huge flower power

These are the biggest blooms of any dianthus of this type, with exceptional flower form and a palette of showstopping colour choices. Brighten colour bowls and gardens with this cheerful mix.

DIANTHUS ●
Dianthus chinensis

Coronet™ Series F1



PRO LANDSCAPE
PERFORMER

Height: 8 to 10 in./20 to 25 cm
Spread: 8 to 10 in./20 to 25 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 it great planted along with other cool-season annuals such as pansies.

New Mixture Improved
Cherry Red, Purple, Rose, Strawberry, White and White Purple Eye. Huge flower size and uniformity make it the best choice in this class of dianthus.



NEW
Mixture Improved

BEACON[®]

IMPATIENS

GROWS STRONGER, SHINES LONGER

HOT NEW COLOURS JOIN THE DISEASE-RESISTANT SERIES

Announcing a popular colour addition for the Beacon Series, **NEW Lipstick**, along with bold **NEW Pearl Island Mixture**, a 3-colour mix named after a well-known lighthouse in Nova Scotia, Canada, where Impatiens downy mildew has been a significant problem. Both offer **high resistance** to the widely prevalent populations of *Plasmopara destructor*, the cause of Impatiens downy mildew. The series is suitable for packs, pots, hanging baskets and in-ground beds.

Beacon Impatiens will continue to help "shine the light" on lesser-known diseases by **supporting a different charitable organisation** each year with a percentage of sales. Visit beaconimpatiens.com for more details.



NEW

Lipstick

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

IMPATIENS ●●
Impatiens walleriana

Beacon[®] Series F1

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

Spread: 12 to 14 in./30 to 36 cm

Seed supplied as: Coated

Plug crop time: 4 to 5 weeks

Transplant to finish: 3 to 4 weeks

- Beacon impatiens exhibits high resistance to the widely prevalent populations of *Plasmopara destructor*, which cause Impatiens downy mildew (IDM).
- Beacon impatiens offers the opportunity to bring 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.
- With a plant structure, flowering time, flower size and crop culture that is similar to Super Elfin, Beacon impatiens is easy to incorporate into production planning.
- Fast-filling, season-long colour for gardens and landscapes.

New Lipstick

North America limited introduction through March 31, 2023, then available globally.

A high-demand, strong colour that is deeper and redder than Rose with a similar flowering time.

New Pearl Island Mixture

Limited introduction. Includes Coral, White and Blue Pearl (*not available separately*). Named for Pearl Island Lighthouse, Nova Scotia, Canada.



NEW

Lipstick

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



NEW

Lipstick

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



NEW

Pearl Island Mixture

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



Pearl Island Lighthouse
Nova Scotia, Canada



NEW

Pearl Island Mixture

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



NEW
Yellow

PETCHOA ●●
Petunia sp. x Calibrachoa sp.

**New Caliburst™
Yellow F1**

Height: 6 to 10 in./15 to 25 cm
Spread: 20 to 28 in./51 to 71 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.
- Day neutral flowering with a 9-hour daylength response.
- Cold durable; it can be produced in early Spring using cold growing down to 50°F (10°C).



NEW
Yellow

A seed petchoa breakthrough!

PanAmerican Seed now offers a vibrant yellow petchoa from seed that provides an economical option for growers that want the same easy production in large containers and the intensity of vegetative petunia colours. Caliburst has a naturally compact/medium habit without the need for PGRs, and it makes a great mixed container component.



Caliburst Yellow Petchoa and E3 Easy Wave Pink Cosmo Petunia



Caliburst Yellow Petchoa, E3 Easy Wave Pink Cosmo and Sky Blue Petunia



Caliburst Yellow Petchoa and E3 Easy Wave Blue Petunia



NEW

Ez Rider Violet Petunia



NEW

Ez Rider Mixture Improved Petunia

PETUNIA ●

Petunia x hybrida

Ez Rider® Grandiflora Series F1

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: 4 to 5 weeks
Transplant to finish: 5 to 6 weeks

- Up to half the amount of PGRs are needed - or none under some growing regimes.
- 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.

New Violet A popular light purple colour expands the compact series.

New Mixture Improved A mix of all colours in the series, including NEW Violet.

PURSLANE ●

Portulaca oleracea

Toucan Series

Height: 3 to 4 in./8 to 10 cm
Spread: 14 to 16 in./36 to 41 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.

Reintroduction Fuchsia High-quality seed with good germination.



Toucan Fuchsia Purslane

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**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; stay compact in both heat and cold; excellent overwintering; wide range of clear colours allows for custom mixes.
- Well-suited to Spring and Autumn packs and 3.5-in./9-cm pots.

New Orange Jump Up Improved

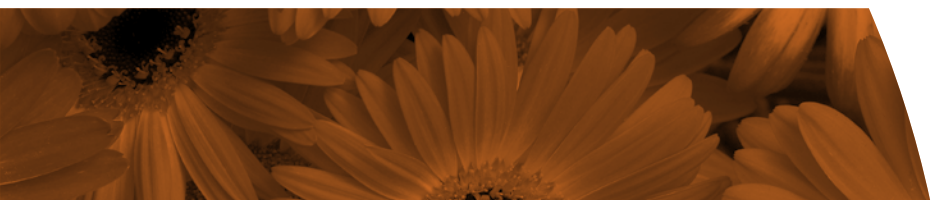
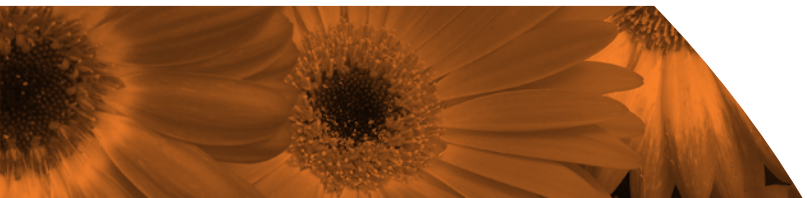
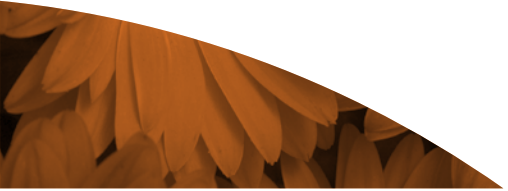
Upgraded for its habit, this improved variety has slightly more vigour to match the rest of the series, with XP timing.

ZINNIA *Zinnia elegans**(syn. Zinnia violaceae)***Zesty™ Series****Height:** 18 to 24 in./46 to 61 cm
Spread: 18 to 24 in./46 to 61 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!

New Mixture Improved Includes Fuchsia, Pink, Purple, Scarlet, White, Yellow and now Orange.**NEW****Sorbet XP Orange Jump Up Improved Viola****NEW****Zesty Mixture Improved Zinnia**

POTTED PLANTS



GERBERA 

Gerbera jamesonii

ColorBloom™ Series F1

Height: 4 to 6 in./10 to 15 cm

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

Mega Revolution™ Series F1

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

Spread: 12 to 14 in./30 to 36 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.
- Best for 6-in./15-cm pots.

New Orange with Dark Eye Improved Offers better height control and habit uniformity, improved flower quality and a stronger colour.

Hit your schedule every time

Flower timing is synchronized across the colour range in each gerbera 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.

Revolution™ Series F1

Height: 4 to 8 in./10 to 20 cm

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

New 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.



NEW

ColorBloom Watermelon with Dark Eye



NEW

Mega Revolution Orange with Dark Eye Improved



NEW

Revolution Orange with Dark Eye

CUT FLOWERS



BloomStudios®

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

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!

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 recommended rates.

New 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.

**NEW****Amazon Lavender Magic****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 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 recommended rates.

New Cherry Adding an additional red colour to the assortment, this bright cherry-red colour is a good fit between Scarlet and Red.

**NEW****Sweet Cherry**

VEGETABLES & HERBS



NO GARDEN?
NO PROBLEM.

**CUCUMBER
(INDOOR/OUTDOOR)** ●*Cucumis sativus***New Quick Snack****Height:** 20 to 24 in./51 to 61 cm
Spread: 15 to 20 in./38 to 51 cm**Seed supplied as:** Raw**Class:** Cocktail**Flower Type:** Parthenocarpic**Fruit Characteristics:**

Dark green skin, smooth

Fruit Size: 1.5-2.5 in./4-6 cm
long x 1 in./3 cm wide**Days to maturity from
direct seed:** 38-45**Plug crop time (weeks):**
direct sow or 128-cell tray, 1**Potting to sale (weeks):** 6**Pot size:** 6-8 in./15-20 cm

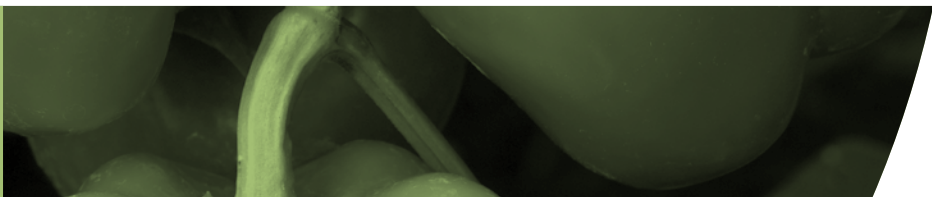
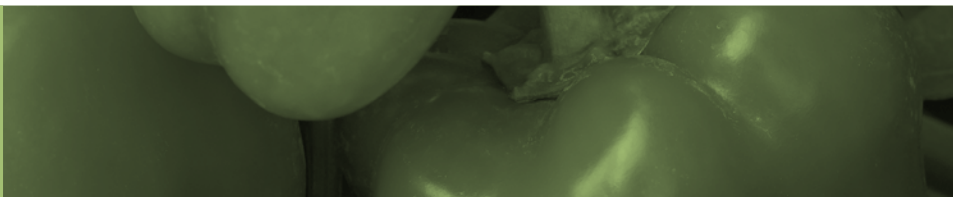
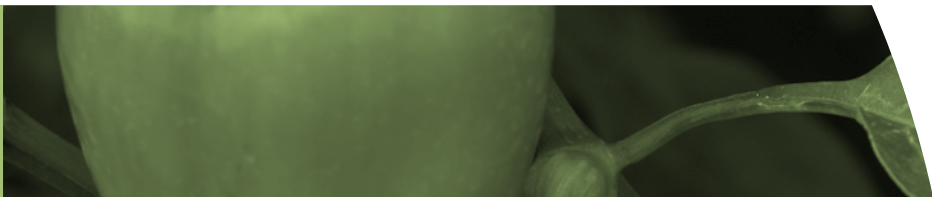
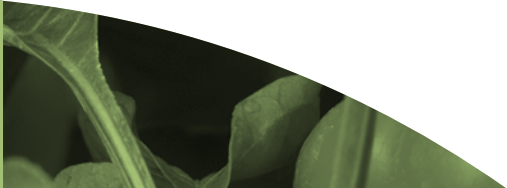
- Plants benefit from being trellised to keep upright and pinched when plant reaches top of trellis.
- Deliciously crisp and sweet cucumbers for your recipes! Eat fresh off the plant, or add to a vegetable platter or fresh salad.
- Produces handfuls of small, cocktail-sized cucumbers over a few weeks.
- 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.

**NEW**
Quick Snack**BUY. EAT.
REPEAT!**

Kitchen Minis™ can grow inside on a sunny windowsill or counter! They can also be grown outside as tabletop patio varieties. Easy-to-grow Kitchen Minis encourage consumers to harvest and enjoy their own homegrown vegetables, then when the plant is finished fruiting, buy a fresh, new plant to harvest from every few weeks!

**NEW**
Quick Snack

VEGETABLES & HERBS



HandPicked
VEGETABLES®

CUCUMBER ●*Cucumis sativus***New MiniCrisp F1**

Height: 6 to 12 in./15 to 30 cm
Spread: 36 to 60 in./91 to 152 cm

Seed supplied as: Raw**Class:** Cocktail**Flower Type:**

Gynoecious, parthenocarpic

Habit: Compact vine**Fruit Characteristics:**

Dark green skin, smooth

Fruit Size: 3-5 in./8-13 cm long x
 0.75-1 in./2-3 cm wide

Flowers per internode: Multiple**Days to maturity from****direct seed:** 40-55**Production Method:**

Field, In Ground, Container

- Short-vined variety is ideal for planters and small-space gardens.
- Smooth, thin-skinned, sweet and crispy, cocktail-sized fruit is nearly seedless and perfect for snacking, appetizer trays or slicing in salads.
- Plants are extremely early producing and high yielding with continuous harvest.
- Parthenocarpic variety doesn't require a pollinator to set fruit.
- Grow in-ground or in a large container with a trellis.

**NEW****MiniCrisp Cucumber****PEPPER** ●*Capsicum annuum***New Prism F1**

Height: 20 to 30 in./51 to 76 cm
Spread: 12 to 18 in./30 to 46 cm

Seed supplied as: Raw**Type:** Sweet**Class:** Midi bell**Habit:** Tall, upright

Fruit Size: 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)

Disease Resistance: HR: BLS 0-3, 7, 8**Days to maturity from transplant:**

(green) 60-65; (ripe) 75-80

Production Method: Field

- 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.
- Seed has a high germination rate and offers resistance to Bacterial Leaf Spot 0-3, 7 and 8.

**NEW****Prism Pepper**

THE AMERICAS



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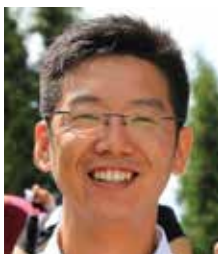
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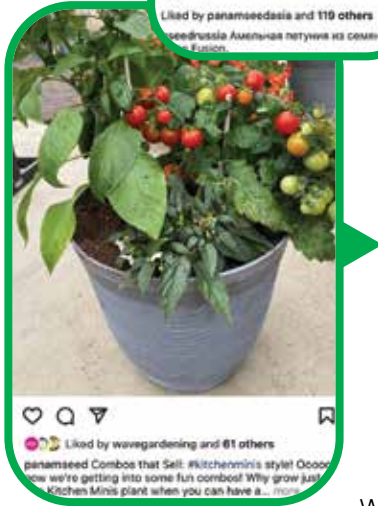
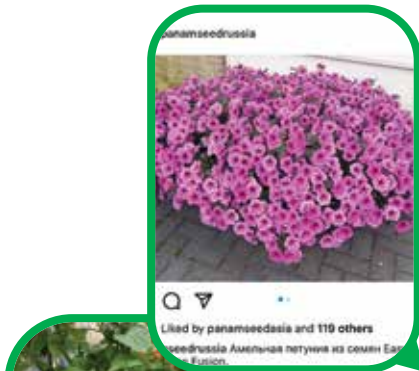
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SALES & CUSTOMER SERVICE HERE TO HELP!



PanAmerican Seed.

KEEPING IN TOUCH



panamseed.com

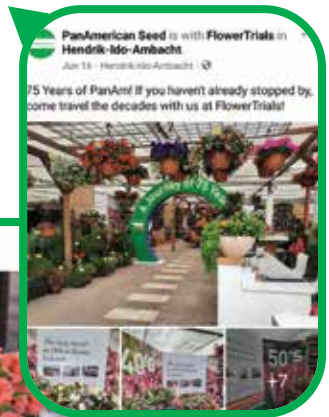


With online tools on our website, the product information guide, culture documents and social media posts, we can provide up-to-the-minute product and growing information, as well as performance data, merchandising tips, trial data and consumer feedback. We've got the resources to keep you informed about our products anytime, anywhere.

Keep up to date on:

New Varieties • Updated Culture • How-to Videos

Share your experiences and boost your own social media presence with us!



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 colors 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.

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SALE LIMITATIONS

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PANAMERICAN SEED PRODUCTS ARE NOT AVAILABLE FOR SALE IN AND MAY NOT BE RESOLD INTO AUSTRALIA, NEW ZEALAND, KOREA, BRAZIL AND SOUTH AFRICA. THE COMPANY'S PRODUCTS MAY NOT BE SOLD, DIVERTED, TRANSFERRED OR RE-EXPORTED, DIRECTLY OR INDIRECTLY, TO ANY INDIVIDUAL, ENTITY, OR DESTINATION THAT IS SUBJECT TO UNITED STATES OR UNITED NATIONS SANCTIONS PROGRAMS OR EMBARGOS (INCLUDING, BUT NOT LIMITED TO, OFAC SANCTIONS PROGRAMS AND THOSE LISTED ON OFAC'S "SPECIALLY DESIGNATED NATIONALS" LIST) WITHOUT AN APPROPRIATE EXPORT LICENSE.

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your customers.



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