PLANTS FOR GROWING SUCCESS!

2021 NEW VARIETIES
NEW FOR 2021

As your global partner, PanAmerican Seed® provides you with the right products that will work for you, customer service and technical support where and when you need it, and the seed quality to help your business succeed.

For 2021, we have an exciting selection of varieties to provide you with growing solutions, like Beacon® Impatiens with high resistance to Impatiens downy mildew, providing season-long colour for the garden. We are also pleased to introduce the Artisan™ Collection to elevate seed Echinacea to F1 quality. Plus, our NEW Kitchen Minis® Collection includes edible potted vegetable plants to entice our newest consumers into gardening.

Visit panamseed.com for more product information and growing culture on these and all our go-to varieties to enhance your program.

Wave, the world's best-selling petunia, celebrates 25 years of innovative colour and superior garden performance in 2020. With a targeted anniversary campaign, POP and retail promotions, the party for Wave petunias continues in 2021 and beyond!
PERENNIALS P. 20

POTTED PLANTS P. 26

CUT FLOWERS P. 30

HANDPICKED P. 34

D
Delphinium
Dasante Blue ..............................................21
Dianthus
Corona™ Salmon Red Eye .................11
E
Echinacea
Artisan™ Collection Red Ombre 24
Artisan™ Collection
Soft Orange ........................................24
Edible Potted Tomato
Kitchen Minis® Siam ......................27
Eggplant
Asian Delite ........................................35
G
Gerbera
ColorBloom™
Red with Dark Eye ...........................29
ColorBloom™
White with Dark Eye ...........................29
ColorBloom™
Mixture Improved .........................29
Mega Revolution™ Scarlet Red
with Light Eye Improved .................28
Mega Revolution™ Select Mixture
Improved ......................................28
Revolution™ Deep Orange
with Dark Eye ................................28
Grass Panicum
Frosted Explosion .............................31
I
Impatiens
Beacon® Bright Red ..................12-13
Beacon® Coral ........................12-13
Beacon® Orange ...............12-13
Beacon® Salmon ..............12-13
Beacon® Violet Shades ..........12-13
Beacon® White ..................12-13
Beacon® Red White Mixture ..12-13
Beacon® Select Mixture ..........12-13
L
Lisianthus
Can Can Purple .........................32
Flare Jade ..............................32
Flare Yellow .........................32
Lobelia
Starship™ Blue .........................25
Starship™ Burgundy ......................25
Starship™ Scarlet
Bronze Leaf ..................................25
M
African Marigold
Marvel II™ Gold ......................14
Marvel II™ Orange ......................14
Marvel II™ Yellow ......................14
Marvel II™ Mixture ......................14
Matthiola
Aida Purple .................................32
P
Pansy
Matrix® Red Wing Improved ........15
Spreading Pansy
Cool Wave® Red Wing Improved /
Sunshine ‘N’ Wine Improved ............7
Pentas
Glitterati™ Red Star ..................15
Pepper
PeppiGrande Red ...................15
Pettunia
Easy Wave®
Rose Fusion ................................5
Shock Wave®
Purple Tie Dye .........................6
Salvia
Lancelot ............................................16
SimplySalad®
Pro San Mixture ............................37
Pro Tatu Mixture .....................37
Snapdragon
Maryland Rose .........................33
Potomac™ Pink Improved ...........33
Potomac™ Red Improved ...........33
Squash
Autumn Frost .............................35
V
Vinca
Tattoo™ Blueberry ......................17
Tattoo™ American
Pie Mixture ..........................17

MEET OUR COVER STARS!

FRONT:
Artisan™ Collection Red Ombre
Echinacea
Beacon® Series Impatiens
Wave® Carmine Velour Pettunia
BACK:
Kitchen Minis® Siam Edible
Potted Tomato

Find product & growing info at panamseed.com / TABLE OF CONTENTS 3
Bold and creative!

You'll always stand out in the petunia market with Easy Wave. Bring in a wide array of decorator colours. Put the huge 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 all Summer.

SPREADING PETUNIA
Petunia x hybrid

**Easy Wave® Series F1**

- **Height:** 6 to 12 in./15 to 30 cm
- **Spread:** 30 to 39 in./76 to 99 cm
- **Flower size:** 2 to 3 in./5 to 8 cm
- **Seed supplied as:** Pelleted
- **Plug crop time:** 4 to 6 weeks
- **Transplant to finish:** Spring 6 to 7 weeks, Summer 4 to 5 weeks

- 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!
- More mounded with more controlled spread than Wave® varieties.
- Recommended in Wave branded packaging: 6-in./15-cm pots, premium quarts and gallons, 306 premium packs with handle, hanging baskets.

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

Find product & growing info at panamseed.com / SPREADING PETUNIA
**Shock Wave® Series F1**

**Height:** 7 to 10 in./18 to 25 cm  
**Spread:** 20 to 30 in./51 to 76 cm  
**Flower size:** 1.5 to 2 in./4 to 5 cm

**Seed supplied as:** Pelleted

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

- Blooms in a 4 to 6-day window.  
- Rebounds faster from overhead watering and rain than other petunias – stays fresher-looking at retail and outdoors.  
- Performs equally well in small spaces, baskets, containers and mixed combos.  
- Mounded, spreading plants are similar in shape and just as easy to manage as Easy Wave® petunia.  
- Recommended in Wave branded packaging: 4-in./10-cm pots, premium quarts, 306 premium packs with handle, hanging baskets.

**New Purple Tie Dye**  
Inconsistent purple-blue and white bicolar pattern is appealing to consumers. Pattern changes based on temperature, light levels and PGRs used; daminozide use will result in more white showing on the blooms. 10.5-hour daylength required.
Twice the spread...double the colour!

Wow 'em with Cool Wave - hands down, it's the fastest-growing, longest-lasting, truly trailing pansy for Spring and Autumn. One trip to the garden centre for lush baskets or pots for in-ground planting is enough to convince anyone that Cool Wave is a cool-season gardener's dream.

SPREADING PANSY
Viola x wittrockiana

Cool Wave® Series F1

- Height: 6 to 8 in./15 to 20 cm
- Spread: 24 to 30 in./61 to 76 cm
- Flower size: 2 to 2.5 in./5 to 6 cm
- Seed supplied as: Primed
- Plug crop time: 4 to 5 weeks
- Transplant to finish: Spring 6 to 7 weeks, Autumn 4 to 5 weeks

- The best-performing spreading pansy series delivers easy spreading colour for Spring and Autumn, so you can extend your growing and selling season for the popular Wave® Brand.
- More vigorous with the most prostrate habit of any spreading pansy - great in combos and as groundcover.
- Superior overwintering hardiness - Cool Wave is the earliest pansy to return in the Spring.

**New Red Wing Improved** Offers better branching and a more mounding habit that matches the newest varieties in the series. Also known as Sunshine 'N Wine in North America.
ANNUALS
Your no-pinch, low-hassle angelonias

Serena and companion 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 landscapes, thanks to their high durability.

ANGELONIA Angelonia angustifolia

SERENA® Series F₁

Height: 16 to 20 in./41 to 51 cm
Spread: 12 to 14 in./30 to 36 cm
Seed supplied as: Pelleted
Plug crop time: 5 to 6 weeks
Transplant to finish: 8 to 9 weeks

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

NEW Blue Improved This light blue flower with a white throat is a lighter blue colour than original Blue, but is closer to a true blue. It is one week earlier to flower, and it offers more uniformity and improved production.

NEW Purple Improved Features a deeper, more intense purple colour than original Purple, with earlier flowering and improved production.

Serena Blue Improved  Serena Purple Improved  Serenita Lavender

SEVENITA® Series F₁

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

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

NEW Lavender This new colour in the Serenita series offers true lavender flower colour. It is one week earlier to flower compared to Lavender Pink, with fast secondary flowering and good fill.
**New!**
All our celosia varieties are now available in pelleted form.

**CELOSIA FOLIAGE**
Celosia argentea

**New Sol™ Collection**

**Gekko Green**
- Height: 10 to 14 in./25 to 36 cm
- Spread: 10 to 16 in./25 to 41 cm
- Seed supplied as: Pelleted
- Plug crop time: 3 to 4 weeks
- Transplant to finish: Spring, 7 to 10 weeks
- An attractive new foliage celosia collection for the market!
- Two distinct bicolour foliage patterns are featured in the collection.
- Offers relatively fast production time and no Downy mildew issues.
- NEW Gekko Green's foliage tends to be more green when kept indoors, and it turns to burgundy when the plant is left outdoors for at least 1 to 2 weeks.

**New Sol™ Collection**

**Lizzard Leaf**
- Height: 10 to 14 in./25 to 36 cm
- Spread: 10 to 16 in./25 to 41 cm
- Seed supplied as: Pelleted
- Plug crop time: 3 to 4 weeks
- Transplant to finish: Spring, 7 to 10 weeks
- Foliage tends to be more green when kept indoors, and it turns to burgundy-red when the plant is left outdoors for at least 1 to 2 weeks.
- NEW Lizzard Leaf's foliage tends to curl due to genetic factors and can be modified by the climate conditions found in different locations in different degrees, in both indoor and outdoor environments.

**Sol Lizzard Leaf**
- Sun-loving foliage celosia brings colour and texture to containers
- With limited options for attractive foliage plants from seed, growers often turn to coleus to add interest and texture to containers. The Sol™ Collection is a fantastic new foliage celosia with relatively fast production time and no Downy mildew issues. It holds well at retail and expands the options for consumers looking for sun-loving foliage accent plants for patio planters with a different texture and look, as well as for quick-growing, low, shrub-like plants that look great at the front of the border.

**Sol Gekko Green**
- NEW**

**Sol Lizzard Leaf**
- NEW**
CELOSIA •
Celosia plumosa

First Flame™ Series

Height: 10 to 14 in./25 to 36 cm
Spread: 10 to 16 in./25 to 41 cm
Seed supplied as: Pelleted
Plug crop time: 3 to 4 weeks
Transplant to finish: 8 to 10 weeks

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

New Yellow Improved

Fits the series well for timing; original Yellow was later to flower. Also offers improved leaf quality compared to original Yellow’s ruffled leaves.

DIANTHUS •
Dianthus chinensis

Corona™ Series F1

Height: 8 to 10 in./20 to 25 cm
Spread: 8 to 10 in./20 to 25 cm
Flower size: 2 to 3 in./5 to 8 cm
Seed supplied as: Pelleted
Plug crop time: 4 to 6 weeks
Transplant to finish: 6 to 8 weeks

- At 2 to 3 in./5 to 8 cm, Corona’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 Salmon Red Eye

Offers a consistent bicolour pattern of salmon/coral with a darker red centre.

Crowned with huge flower power

Wow ‘em with the biggest blooms of any dianthus of this type…exceptional flower form…and a palette of showstopping colour choices. Corona adds a regal touch to cool-season landscapes, gardens and patio planters.
High resistance to Impatiens downy mildew!

Bring *Impatiens walleriana* back into production without the risk of disease! Beacon impatiens offers high resistance to the currently known and widely prevalent populations of *Plasmopara obducens*, which cause Impatiens downy mildew. For lasting colour, you can rely on Beacon impatiens to thrive. Visit [BeaconImpatiens.com](http://BeaconImpatiens.com) for more information.

Beacon Coral (L) outperforms a susceptible competing variety (R), at Venhuizen field trials in 2018.
IMPATIENS • • •
Impatiens walleriana

Beacon® Series F1

Height: 15 to 20 in./38 to 51 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
Plug crop time: 4 to 5 weeks
Transplant to finish: 3 to 4 weeks

• Beacon impatiens exhibits high resistance to the currently known and widely prevalent populations of Plasmopara obducens, which cause Impatiens downy mildew.
• 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 without the use of chemicals, and it can be produced how impatiens used to be grown without fungicides or any special care regimen.
• 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.
• Offers season-long colour, and it brings back fast-filling colour to gardens and landscapes.

New Bright Red A warm-toned red on upright mounded, moderately vigorous plants with mid-green foliage. Plant vigour is slightly larger than Super Elfin XP Red, and the flower size is slightly smaller.

New Coral Coral-pink flowers on mid-vigour, mounded plants with bright green foliage.

New Orange A bright, clean orange on moderate vigour, upright mounded plants with bright green foliage. Plant height, vigour and flower size are similar to Super Elfin Bright Orange.

New Salmon A warm salmon-orange flower on mid-vigour, mounded plants with bright green foliage.

New Violet Shades Shades of bright violet and burgundy-violet on moderate vigour, upright mounded plants with mid-green foliage. More vigorous with the same flower size as Super Elfin XP Violet.

New White Pure white flowers on moderately vigorous, upright mounded plants with mid-green foliage. Features more plant vigour with the same flower size as Super Elfin XP White.


New Select Mixture Bright Red, Coral, Orange, Salmon, Violet Shades and White.
ARICAN MARIGOLD
Tagetes erecta

Marvel II™ Series F1

Height: 16 to 18 in./41 to 46 cm
Spread: 10 to 12 in./25 to 30 cm
Flower size: 3 to 3.5 in./8 to 9 cm
Seed supplied as: Coated, De-tailed
Plug crop time: 3 weeks
Transplant to finish: 6 to 7 weeks

• This new intermediate-type African marigold offers improved branching, earliness, flower size and a brighter flower colour.
• Series is uniform under both short and long days.
• Also available: New Mixture

NEW
Marvel II Orange

NEW
Marvel II Gold

NEW
Marvel II Yellow

NEW
Marvel II Gold, Orange and Yellow
Make your life easier

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

Matrix Red Wing Improved Pansy

PANSY Viola x wittrockiana
EXTRA-LARGE FLOWERED PANSY

Matrix® Series F1

Height: 8 in./20 cm
Spread: 8 to 10 in./20 to 25 cm
Flower size: 3.5 in./9 cm
Seed supplied as: Raw, Primed
Plug crop time: 5 weeks
Transplant to finish: Spring 6 to 8 weeks, Autumn 4 to 6 weeks

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

New Red Wing Improved Offers better branching and a more mounding habit.

Glitterati Red Star Pentas

PENTAS Pentas lanceolata

Glitterati™ Series F1

Height: 12 to 22 in./30 to 56 cm
Spread: 10 to 18 in./25 to 46 cm
Seed supplied as: Pelleted
Plug crop time: 6 to 7 weeks
Transplant to finish: 8 to 10 weeks

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

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

New Lancelot

Height: 36 to 42 in. / 91 to 107 cm
Spread: 24 to 30 in. / 61 to 76 cm
Seed supplied as: Raw
Plug crop time: 4 to 5 weeks
Transplant to finish: 5 to 6 weeks, foliage only

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

The art of plants comes alive on every Tattoo bloom — each petal looks like it is inked or airbrushed with soft brush strokes of dark purple. Adding these novelties to your lineup shows that you have your finger on the pulse of what today’s gardener really wants: bold, fun, head-turning. Tattoo...without a doubt, the most unique vinca on the market!

VINCA
*Catharanthus roseus*
UPRIGHT VINCA

**Tattoo™ Series**

Height: 10 to 14 in./25 to 36 cm  
Spread: 6 to 8 in./15 to 20 cm  
Seed supplied as: Raw  
Plug crop time: 5 weeks  
Transplant to finish: 5 to 6 weeks

- Very floriferous and well-branched plants display one-of-a-kind flowers.  
- Tight flowering window with an easy-to-grow, uniform, upright habit across all colours.  
- Outstanding in hot and sunny conditions.

NOTE: Tattoo blooms display the best colour contrast under warm conditions with moderate light; colours lighten with increased temperatures and light. Grown under cooler conditions and lower light, colours appear darker overall with less contrast and more purple colouration being expressed.

**New Blueberry** A unique colour perfect for combining with other plants to create heat-loving red, white and blue mixes.

**New American Pie Mixture**  
Includes NEW Tattoo Blueberry, plus two Pacifica XP varieties, Really Red and White.

**New Valiant™ Series F1**

Height: 14 to 20 in./36 to 51 cm  
Spread: 10 to 12 in./25 to 30 cm  
Seed supplied as: Raw  
Plug crop time: 5 weeks  
Transplant to finish: 3 to 4 weeks

- The Valiant series is more vigorous than the competition AND it comes with disease resistance (IR*) to aerial Phytophthora under field conditions - a “Win-Win” for landscape programs.  
- Makes well-branched, market-ready plants with large flowers that show off high-impact colour at point of sale and in the landscape.  
- Superior hybrid vigour allows Valiant vinca landscapes to better survive environmental stresses such as sun, heat, drought, salt and cool/damp conditions.

**New Apricot Improved** A stronger colour.

**New Valiant Magenta** A new colour for the series.

*Intermediate resistance (IR):* Plant varieties that restrict the growth and/or development of the specified pest and/or the damage it causes but may exhibit a greater range of symptoms or damage compared to high resistant varieties. Intermediate resistant plant varieties will still show less severe symptoms or damage than susceptible plant varieties when grown under similar environmental conditions and pest pressure.  
Adopted by the ISF Vegetable and Ornamental Crops Section in May 2017.

Find product & growing info at panamseed.com / VINCA 17
ANNUALS / QUICKTIME

Request your Product Information Guide for full culture details

NEW
Quicktime Yellow Blotch

NEW
Quicktime Blue

Shorter production time = cost savings

Flowering two weeks faster than comparable series, Quicktime allows you to sow your viola crop two weeks later and still ship on time in Spring. With reduced labour and less heat needed in the greenhouse, the cost savings are quick to add up!

VIOLA Viola cornuta

Quicktime™ Series F1

Height: 6 to 8 in./15 to 20 cm
Spread: 6 to 8 in./15 to 20 cm
Flower size: 1 to 1.5 in./3 to 4 cm
Seed supplied as: Primed

Plug crop time: 4.5 to 5 weeks
Transplant to finish: Spring 5 to 6 weeks, Autumn 3 to 4 weeks

- Early-blooming, free-flowering plants provide bright colour in early Spring and Autumn gardens.
- Reduced daylength sensitivity and free-flowering selection criteria make Quicktime viola the best option for saving growing time in cold-grown, overwinter-produced viola crops.
- Compact plants have a uniform habit and are covered in 1 to 1.5-in./3 to 4-cm blooms.
- A well-branched, full-bodied plant that fills out the pot or pack.
- Features ‘Hyperflora’ flowering power, so it has multiple blooms at first flower and continues with fast secondary and tertiary flowering.

**New Blue** Adds a key core colour to the series.

**New Yellow Blotch** Brings a key colour to the series, with a medium yellow hue.

PanAmerican Seed.
New! Double Zahara Yellow Improved US PVPAF

ZINNIA
Zinnia marylandica

Double Zahara™ Series

Height: 16 to 20 in./41 to 51 cm
Spread: 16 to 20 in./41 to 51 cm
Seed supplied as: Raw
Plug crop time: 3 weeks
Transplant to finish: Spring 8 to 9 weeks, Summer 5 to 6 weeks

• The only fully double, disease-resistant zinnia series makes a huge colour show!
• Unlike Double Zahara, the competition has smaller, semi-double flowers.
• Award-winning, all-season performance and durability in landscapes and containers, especially in sunny, hot and dry conditions.
• Intermediate size is perfect for mid-level plantings in the landscape. Works well in containers, too.

New! Yellow Improved Larger flower diameter, brighter yellow colour and improved vigour to match the newest varieties in the series, like Salmon and Fire.
PERENNIALS / GOLD RUSH

**ARABIS**
Arabis blepharophylla

**New Barranca™ Series**
- **Height:** 6 to 8 in./15 to 20 cm
- **Spread:** 7 to 8 in./18 to 20 cm
- **Flower size:** 0.5 in./1 cm
- **USDA Hardiness Zones:** 4a to 9a (-30 to 20°F/-34 to -7°C minimum temperatures)

**Seed supplied as:** Raw

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

**Transplant to finish:** 26 to 32 weeks

- The Barranca Series offers two colours in A. blepharophylla, producing a highly uniform crop that is short-stemmed with a lot of flower power.
- The series includes Deep Rose and Pink (violet pink), a unique colour in this floriferous, early-Spring flowering perennial.

**New Pink** 3 to 5 days earlier than Deep Rose, with more clear green foliage.

**aurinia**
Aurinia saxatile

**New Gold Rush**
- **Height:** 5 to 8 in./13 to 20 cm
- **Spread:** 5 to 8 in./13 to 20 cm
- **Flower size:** 0.5 to 3 in./1 to 8 cm
- **USDA Hardiness Zones:** 3a to 9a (-40 to 20°F/-40 to -7°C minimum temperatures)

**Seed supplied as:** Raw

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

**Transplant to finish:** 26 to 32 weeks

- Shorter-stemmed Aurinia features a more uniform Aurinia habit and earlier flowering than the competition.
- Evergreen early-Spring flowering perennial forms neat rosettes.

**Delphinium elatum**

**Dasante Blue F1**
(Reintroduction)

- **Height:** 28 to 34 in./71 to 86 cm
- **Spread:** 10 to 12 in./25 to 30 cm
- **USDA Hardiness Zones:** 4a to 8b (-30 to 15°F/-34 to -9°C minimum temperatures)

A First-Year-Flowering Perennial.

**Seed supplied as:** Raw

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

**Transplant to finish:** 11 to 13 weeks

- Dasante Blue shows off vibrant true blue flowers with light purple accents and white bees.
- The grower-friendly, uniform plants are more compact, more responsive to PGRs and naturally earlier than other D. elatum types.
- Easy-care, cool-season crop can be grown with little or no heat for energy savings.
- Plants ship well, with more plants per rack in flower than any other delphinium for tremendous retail impact.
- Best for gallons with 3 plants per pot.
- Suitable for greenhouse, field or garden cut flower production.
AQUILEGIA®
Aquilegia x hybrida

New Earlybird™ Series F₁

- Height: 9 to 11 in./23 to 28 cm
- Spread: 8 to 10 in./20 to 25 cm
- Flower size: 2 to 3 in./5 to 8 cm
- USDA Hardiness Zones: 3a to 9b (-40 to 25°F/-40 to -4°C minimum temperatures)
- A First-Year-Flowering Perennial.
- Seed supplied as: Raw
- Plug crop time: 6 to 9 weeks
- Transplant to finish: 12 to 16 weeks (20 to 30 weeks overwintered)

- Strong, new colours and colour combinations spark new interest in Aquilegia!
- This new series has a low cold requirement and short juvenility for growing in warm Winter climates.
- Features a controlled habit, with relatively short stems on well-mounded plants.
- A flowering window of 10 to 12 days, plus a short harvest window, make it an excellent choice for early-Spring programs.
- NEW Purple White, Purple Yellow and Red Yellow are unique colours in F₁ Aquilegia.

New Blue White
Features a slightly more slender plant habit compared to the rest of the series.

New Purple White
Flowers 2 to 3 days earlier than the rest of the series.

New Purple Yellow
Flowers 5 to 7 days later than the series average, and is 2 in. (5 cm) taller.
The first F₁ hybrid seed Echinacea collection is just better!

The NEW Artisan™ Collection elevates seed Echinacea to offer consistency of plant structure for uniform and highly branched, full plants. It also provides uniformity of flowering, so all plants are ready to sell at the same time. Plus, the benefit of a seed input provides flexibility for production so it fits better in your schedule.

**ECHINACEA**

**Echinacea x hybrida**

**New Artisan™ Collection F₁**

- Height: 16 to 28 in./41 to 71 cm
- Spread: 10 to 25 in./25 to 64 cm
- Flower size: 3 to 4 in./8 to 10 cm
- USDA Hardiness Zones: 4a to 10b (-30 to 35°F/-34 to 2°C minimum temperatures)
- A First-Year-Flowering Perennial.
- Seed supplied as: Amplified
- Plug crop time: 5 to 6 weeks
- Transplant to finish: 13 to 17 weeks

- The first F₁ hybrid Echinacea collection from seed!
- Offers consistency of plant structure for a uniform, highly branched, full plant.
- Features uniform flowering, so all plants are ready to sell at the same time.
- Seed input provides flexibility for production and labour management.
- NEW Amplified seed form has been enhanced through proprietary processes.

**New Red Ombre** Flowers open red and soften in colour with age.

**New Soft Orange** Flowers open deep orange and soften as they mature.

Request your Product Information Guide for full culture details.
LOBELIA
Lobelia x speciosa

**Starship™ Series F1**

- **Height:** 20 to 24 in./51 to 61 cm
- **Spread:** 8 to 12 in./20 to 30 cm
- **USDA Hardiness Zones:** 6a to 10b (-10 to 35°F/-23 to 2°C minimum temperatures)
- **A First-Year-Flowering Perennial.**
- **Seed supplied as:** Pelleted
- **Plug crop time (288 tray):** Scarlet, 7 to 9 weeks; all others, 8 to 10 weeks
- **Transplant to finish:** 14 to 18 weeks

- Earlier flowering; improved branching; low stretch; uniform, controlled habit; and huge flower power assure a better-quality finished plant than the competition.
- Good Summer crop for landscape programs - prefers higher temperatures, humidity and moisture.
- Good germination and plug yield.
- Versatile series works well from 5-in./13-cm pots to higher-value 1 and 2-gallon containers.
- Performs well in both annual and perennial combos.
- Attracts hummingbirds and butterflies.

**New Blue** This variety has a height of 24 to 28 in./61 to 71 cm, which is 6 to 8 in./15 to 20 cm taller than the rest of the series. It also has green leaves, in contrast to the bronze leaves of the other varieties.

**New Burgundy** Features the same habit as Scarlet and Deep Rose.

**New Scarlet Bronze Leaf** The most bronze-leafed variety in the series grows to 24 to 26 in./61 to 66 cm in height, about 4 to 6 in./13 to 15 cm taller than Scarlet, and is one week later to flower. Replaces Vulcan Red, which was 3 weeks later to flower than the series. Features an in-demand combination of deep bronze leaves with intense scarlet flower power.
POTTED PLANTS
**Kitchen Minis®**

**EDIBLE POTTED TOMATO**

*Solanum lycopersicum*

**New Siam F1**

**Height:** 7 to 9 in./18 to 23 cm  
**Spread:** 10 to 12 in./25 to 30 cm  
**Seed supplied as:** Raw  
Plant benefits from being grown dry. Support fruit weight by inserting sticks close to the central stem at the time of flowering.  
**Fruit colour:** Red  
**Plug crop time (weeks):** 2-3  
**Potting to sale (weeks):** 10-12  
**Pot size:** 5-6.5 in./13-17 cm  
**Fruit size:** 0.5 x 0.5 in./1.5 x 1.5 cm

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**Kitchen Minis® Edible Potted Vegetable Varieties**

**Tomatoes**
- NEW Siam

**Peppers**
- Adobo • Cosmo
- Fresh Bites Orange, Red and Yellow • Hot Burrito
- Hot Fajita • Hot Joker
- Hot Lemon • Hot Tomato
- Piñata • Tamale • Taquito
- Yellow Tomato

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Grow these mini vegetable plants inside or out!

The NEW Kitchen Minis® collection includes potted vegetable plants consumers can grow inside on a sunny windowsill or counter without a garden! They can also be grown outside as tabletop patio varieties. These Kitchen Minis encourage consumers to grow and harvest their own homegrown vegetables all year round.

Find product & growing info at panamseed.com
**Revolution™ Series F1**

- **Height:** 4 to 8 in./10 to 20 cm
- **Spread:** 10 to 12 in./25 to 30 cm
- **Flower size:** 3 to 4 in./8 to 10 cm
- **Seed supplied as:** Coated
- **Plug crop time:** 6 to 7 weeks
- **Transplant to finish:** 8 to 10 weeks

- When it comes to uniformity of flowering window across a complete colour range, Revolution is the leading standard-size pot gerbera.
- Industry-leading seed quality.
- Better second flush of flowers assures much longer bloom time for the consumer.
- Best for 5-in./13-cm pots.

**New Deep Orange with Dark Eye**

More compact variety has a good, deep orange colour.

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**Revolution™ Series F1**

- **Height:** 6 to 10 in./15 to 25 cm
- **Spread:** 12 to 14 in./30 to 36 cm
- **Flower size:** 4 to 5 in./10 to 13 cm
- **Seed supplied as:** Coated
- **Plug crop time:** 6 to 7 weeks
- **Transplant to finish:** 8 to 10 weeks

- Produces manageable, larger-sized plants with very large flowers - beats competing series for colour range, bloom size and seed quality.
- Ideal for larger container programs.
- Supplied with industry-leading seed quality.

**New Scarlet Red with Light Eye Improved**

Shorter flower stems, compact habit, better flower performance and a higher flower count.

**New Select Mixture Improved**

All varieties in the series.

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**Mega Revolution™ Series F1**

- **Height:** 4 to 8 in./10 to 20 cm
- **Spread:** 10 to 12 in./25 to 30 cm
- **Flower size:** 3 to 4 in./8 to 10 cm
- **Seed supplied as:** Coated
- **Plug crop time:** 6 to 7 weeks
- **Transplant to finish:** 8 to 10 weeks

- 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.

**New Scarlet Red with Light Eye Improved**

Shorter flower stems, compact habit, better flower performance and a higher flower count.

**New Select Mixture Improved**

All varieties in the series.

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**ColorBloom**

- **7 varieties & 1 mix**
- **Quart/11-cm pots**

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**Hit your schedule every time**

Flower timing is synchronized across the colour range in each Revolution series, so your product flows smoothly. No surprises...you grow, pick, pack and ship just as you planned. High uniformity enables a consistent, fully programmable, high-density crop year-round.
Stays tidy for smaller pots

ColorBloom stays compact, so it won’t get too full or leafy, allowing the colourful blooms to show through in quarts/11-cm pots. Faster to flower by around 10 days, ColorBloom beats the competition to market. And, first-time plant buyers will love the exciting, non-fading colours and easy care of this indoor/outdoor plant.

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** Red with Dark Eye  
More uniform in colour and around one week earlier to flower than competing reds.

**New** White with Dark Eye  
Clear white and uniform in colour.

**New** Mixture Improved  
Includes all varieties in the series. Note that Bicolor Orange Yellow is slightly later to flower than the rest of the varieties.

Kosmo Series

**Height:** 8 in./20 cm  
**Spread:** 8 to 10 in./20 to 25 cm  
**Seed supplied as:** Pelleted  
**Plug crop time:** 3 to 4 weeks  
**Transplant to finish:** 9 to 11 weeks

- Genetically dwarf series for year-round pot and pack programs needs no PGRs or pinching.  
- Produces a main stem at the base with many side spikes; flower heads top well-proportioned leaves.  
- Short production time, long retail shelf life and excellent garden performance.

**New** Orange  
Brings a bright orange colour to the series.

**New** Mixture Improved  
Includes NEW Orange.

**New!**  
All our celosia varieties are now available in pelleted form.
CUT FLOWERS
**ANEMONE**

*Mona Lisa® Series F1*

- **Height:** 18 in./46 cm
- **Flower size:** 4 to 4.5 in./10 to 11 cm
- **Seed supplied as:** Raw
- **Plating density:** 2 to 4 plants/ft.² (22 to 44 plants/m²)
- **Plug crop time:** 8 weeks
- **Transplant to finish:** 12 weeks

- A masterpiece among anemones: Mona Lisa puts out up to 18 flowers per plant…flowers under lower Winter light levels…doesn’t need staking, netting or disbudding.
- 4 to 4.5-in./10 to 11-cm blooms top sturdy 18-in./46-cm stems that are ideal for cutting and design work.
- Well-suited for young plant production from March to April sowing.
- Low temperatures (46 to 54°F/8 to 12°C) promote optimum stem length for cut flower production.

**New Orchid Shades Improved**

Improved germination and uniformity over original Orchid Shades, with similar colour shades and crop time.

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**LINE**

These showy flowers add height and width to the arrangements, and are used to define the shape and direction. Many – like snapdragons and matthiola – feature flowers held close to the stem.

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**NEW**

*Mona Lisa® Orchid Shades Improved Anemone*

**New Frosted Explosion Grass Panicum**

- **Height:** 24 to 30 in./61 to 76 cm
- **Seed supplied as:** Multi-Seed Pellets
- **Planting density:** 2 to 3 plants/ft.² (25 to 32 plants/m²)
- **Best for:** Greenhouse, high tunnel, field
- **Plug crop time:** 4 to 5 weeks
- **Transplant to finish:** 8 to 12 weeks

- This easy-to-grow grass adds a delicate texture to any bouquet.
- Facultative short day flowering response; daylength extension is recommended where appropriate to ensure good stem length.
- Harvest stems when seed heads are green all the way to bronze tinged.
- Stems last 10 to 14 days in a vase.

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**FILLER**

These transitional varieties have clusters of individual flowers on a single stem or flower head, and are used to fill in spaces between the Focal and Line flowers. Examples include dianthus and trachelium.

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**VOLUME**

Secondary to the focal flowers, blooms like matthiola and dianthus provide a dense burst of colour and add mass to the bouquet.
LISIANTHUS
Eustoma grandiflorum

**New Can Can Purple F1**

**Height:** 36 to 45 in./91 to 114 cm  
**Seed supplied as:** Pelleted  
**Planting density:** 8 plants/ft.² (84 plants/m²) Summer; 6 plants/ft.² (64 plants/m²) Winter  
**Best for:** Greenhouse, high tunnel

**Plug crop time:** 8 to 10 weeks  
**Transplant to finish:** Winter, 14 to 18 weeks; Spring/Autumn, 12 to 14 weeks; Summer, 10 to 12 weeks

- A later-flowering, spray-type lisianthus with a highly filled flower in a deep purple-blue colour.  
- Produces a spray of flowers on the top of each stem that opens within a short window, giving a bouquet effect to every stem.  
- Labour savings with no pinching needed.  
- Full spray effect may reduce the number of stems needed for floral arrangements.

**Flare Series F1**

**Height:** 36 to 45 in./91 to 114 cm  
**Seed supplied as:** Pelleted  
**Planting density:** 8 plants/ft.² (84 plants/m²) Summer; 6 plants/ft.² (64 plants/m²) Winter  
**Best for:** Greenhouse, high tunnel

**Plug crop time:** 8 to 10 weeks  
**Transplant to finish:** Winter, 14 to 18 weeks; Spring/Autumn, 12 to 14 weeks; Summer, 10 to 12 weeks

- The best spray-type lisianthus series – Flare produces a spray of flowers on the top of each stem that opens within a short window, giving a bouquet effect to every stem.  
- Labour savings, thanks to no pinching needed.  
- Full spray effect may reduce the number of stems needed for floral arrangements.  
- **New Jade** New light green option for the series.  
- **New Yellow** New light yellow option for the series.

**Northern Greenhouse Selectable Matthiola (Stock)**

**Matthiola incana**

**Aida Series**  
(Spring Flowering, Group 2)

**Height:** 32 in./81 cm  
**Seed supplied as:** Raw  
**Stem length:** 32 in./81 cm  
**Planting density:** 6 plants/ft.² (64 plants/m²)  
**Best for:** Greenhouse

**Plug crop time:** 5 to 6 weeks  
**Transplant to finish:** Winter, 11 to 12 weeks; Spring, 8 to 9 weeks; Summer, 6 to 8 weeks; Autumn, 4 to 7 weeks

The Aida Series is bred specifically for Spring performance.

**New Purple** New deep purple option for the series.
SNAPDRAGON

Antirrhinum majus

Maryland Series F1
(Group 1,2)

- Height: 39 to 60 in./99 to 152 cm
- Seed supplied as: Raw
- Stem Length: 39 to 60 in./99 to 152 cm
- Planting density: 6 to 10 plants/ft.² (64 to 106 plants/m²); high-density planting under high-light or field situation
- Best for: Greenhouse, high tunnel

Plug crop time: 4 to 5 weeks
Transplant to finish: 8 to 10 weeks; less than optimal crop season may affect finishing time for a duration of up to 18 weeks; refer to the PanAmerican Seed Product Information Guide at panamseed.com for details

- Energy-efficient series is your best choice for cool-season, low-light and low-temperature conditions.
- Group with other Group 1,2 varieties (Cool, Purple Twist and Red Delilah) for Autumn, Winter and Spring programs.
- Well-defined flower spikes are produced on sturdy, clean stems.

New Rose: The addition of this colour allows for a year-round production program when coupled with the Monaco and Potomac series.

Snaps second to none

PanAmerican Seed is the world leading supplier of F1 forcing snaps, with an unsurpassed choice of top-producing varieties selected for stem and flower quality, photoperiodic response and earliness to flower. With selections like popular Potomac, you’ll find it a “snap” to build an all-year program of successful growing.

Potomac™ Series F1
(Group 3,4)

- Height: 39 to 60 in./99 to 152 cm
- Seed supplied as: Raw
- Stem length: 39 to 60 in./99 to 152 cm
- Planting density: 6 to 10 plants/ft.² (64 to 106 plants/m²); high-density planting under high-light or field situation
- Best for: Greenhouse, high tunnel

Plug crop time: 4 to 5 weeks
Transplant to finish: 8 to 10 weeks; less than optimal crop season may affect finishing time for a duration of up to 18 weeks; refer to the PanAmerican Seed Product Information Guide at panamseed.com for details

- Tops for production during periods of high light, long days and warm temperatures.
- Plants produce tall, strong stems and long spikes with good flower quality.
- Can be grown year-round with supplemental high-intensity light.

New Pink Improved: Features thicker bud taper, better colour saturation and hybrid uniformity.

New Red Improved: Offers a richer red colour, a more robust flower spike and earlier flowering that is more in line with the series.

Find product & growing info at panamseed.com / SNAPDRAGON 33
New Asian Delite F₁

*Eggplant*  
*Solanum melongena*

**New Asian Delite F₁**

- **Height:** 24 to 42 in./61 to 107 cm
- **Spread:** 24 to 36 in./61 to 91 cm
- **Seed supplied as:** Raw

**Class:** Elongated  
**Size:** Medium  
**Habit:** Upright  
**Fruit Characteristics:** Bright purple skin, semi-spineless  
**Calyx Colour:** Green and black  
**Baby Fruit Size:** 5-7 in./13-18 cm long x 1 in./3 cm wide  
**Full Fruit Size:** 9-12 in./23-30 cm long x 1.5 in./4 cm wide  
**Days to maturity from transplant:** 50-55  
**Production Method:** Field, In-ground, Container

- Slender, elongated eggplants are glossy with bright purple skin and white, tender, non-bitter flesh.  
- Fruit can be sliced lengthwise for grilling or lightly frying, and tender skin does not need to be peeled.  
- Sliced or diced fruit is great for a stir-fry or curry; its non-bitter flavour and tender texture will complement any sauce.  
- Plants are upright and semi-spineless, so they are very easy and painless to harvest.  
- Great in an in-ground garden or large container.

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New Autumn Frost F₁

*Squash*  
*Cucurbita moschata*

**New Autumn Frost F₁**

- **Height:** 8 to 12 in./20 to 30 cm
- **Spread:** 120 to 144 in./305 to 366 cm
- **Seed supplied as:** Raw

**Class:** Winter Squash  
**Type:** Specialty Round  
**Habit:** Medium Vine  
**Exterior Colour:** Dark tan  
**Fruit Size:** 5-7 in./13-18 cm long x 5-6 in./13-15 cm wide  
**Disease Resistance:** Intermediate resistance to Powdery mildew  
**Days to maturity from direct seed:** 100-105  
**Production Method:** Field, In-ground

- Uniquely ribbed, round fruit ripens to dark tan with a frosted overlay.  
- Fruit is similar in taste to a butternut squash, with superior quality, rich flavour and a shelf life of up to 4 months after maturity, allowing for a supply of high-quality fruit throughout the Winter season.  
- Fruit can be prepared like a winter squash; cut lengthwise or cut the top 2 in./5 cm off, scoop seeds out and roast; perfect for stuffing.  
- Best grown in-ground.
**NEW**

**PeppiGrande Red**

**Capsicum annuum**

**New PeppiGrande Red F1**

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

**Seed supplied as:** Raw

**Type:** Sweet  
**Class:** Corno  
**Habit:** Large, tall, vigorous  
**Growth:** Indeterminate  
**Fruit Size:** 5-6 in./13-15 cm long x 1.5-2 in./4-5 cm wide  
**Fruit Colour:** Ripens from green to red  
**Days to maturity from transplant:** 60-65 green; 80-85 full ripe  
**Production Method:** Field, Protected Culture, In-ground

- Corno-shaped pepper has outstanding crisp texture, rich flavour and more sweetness than large-fruited peppers.  
- Fruit is often seedless, which means less preparation time for chopping and cooking; great on the grill or baked stuffed with cheese.  
- To produce seedless fruit, grow it in isolation from other (non-seedless) pepper varieties.  
- If it is not isolated, it will produce larger, great-tasting fruit with just a few seeds.  
- Best grown in-ground with support of stakes or a cage.
**SIMPLY SALAD®**

*B. sp.*

**New Pro San Mixture**

- **Height:** 8 to 12 in./20 to 30 cm
- **Spread:** 6 to 12 in./15 to 30 cm
- **Seed supplied as:** Precision Multi-Pellets

**Salad Class:** Mixed Species

**Suited For:** Extended harvest multiple cuts, fresh cut, hydroponic, pot, roots-on

**Days to maturity from direct seed:** 25-45

**Days to maturity from transplant:** 15-30

**Production Method:** Hydroponic, In-ground, Container

- A mix of Asian greens – mizuna and komatsuna - that were selected for late bolting and uniform growth.
- Leaves have attractive lobed and serrated leaf shapes in bright purple and green shades.
- **Classic flavour is perfect for salads or braising.**
- Cut at a junior leaf stage 25-35 days from sowing or at full leaf stage 35-45 days from sowing.
- Cut leaves 2 in./5 cm above soil level and foliage will re-grow to junior leaf size approximately 10 days later.

**New Pro Tatu Mixture**

- **Height:** 8 to 12 in./20 to 30 cm
- **Spread:** 6 to 12 in./15 to 30 cm
- **Seed supplied as:** Precision Multi-Pellets

**Salad Class:** Mixed Species

**Suited For:** Extended harvest multiple cuts, fresh cut, hydroponic, pot, roots-on

**Days to maturity from direct seed:** 25-45

**Days to maturity from transplant:** 15-30

**Production Method:** Hydroponic, In-ground, Container

- A mixture of Asian mustard and komatsuna greens that were selected for late bolting and uniform growth.
- Leaves have attractive lobed and frilled leaf shapes in deep purple and bright green shades.
- **Spicy flavour is perfect for salads or braising.**
- Cut at a junior leaf stage 25-35 days from sowing or at full leaf stage 35-45 days from sowing.
- Cut leaves 2 in./5 cm above soil level and foliage will re-grow to junior leaf size approximately 10 days later.
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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.

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 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) inspect 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 to Purchaser 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 disputed claim for which the claim relates.

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All Goods will be filled in bulk and/or predetermined packet sizes unless special packaging instructions are given. If special packaging is requested, a packaging fee will apply and additional time may be required to complete the order.

CUSTOM SEED TREATMENTS
If a custom treatment is requested, a $125 (U.S.) fee per batch will apply and additional time may be needed to complete the order.

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Depending on the Goods ordered by Purchaser and the Inspections and Treatments required, PhytoSanitary Certificates may be required to comply with government regulations. If the use of such treatment requires PhytoSanitary Certificates, an additional cost will be charged.

DELIVERY DATES
Please indicate the desired 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.

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Seller shall not be responsible for delays in delivery or for losses resulting from such delays. Seller reserves the right to make partial shipment. 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 similar disease or dissimilar which is beyond Seller’s reasonable control.

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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 HELD IN THE STATE OR FEDERAL COURTS LOCATED IN OXipay or COOK COUNTY, ILLINOIS.

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