

2014 Catalogue



seed

PanAmerican Seed® **KieftSeed**

Our people are your people.

While our product reps are out on the road meeting with you, there's plenty happening behind the scenes at PanAmerican Seed and Kieft Seed. We have breeders, researchers, product managers, and customer and technical support personnel, each and every one dedicated to working for you, to bring you the best seed products and top-notch personal service.

You'll meet a few of these people in the pages ahead and get a special look into how their passion for plants puts the most innovative, yet the most reliable varieties on your benches. This innovation happens on so many levels - from introducing spectacular new products for you to take to your customers to helping you reduce plant handling and labour costs *just by selecting our genetics*.

I hope you enjoy this catalogue and that it helps you build your most successful growing season yet. Let me know what's on your wish list for the future: markshort@panamseed.com or +44 (1) 630 588-3292.



Mark Short
Global Sales Director
PanAmerican Seed



We Put Our Best Foot Forward

That's why you'll see some of PanAmerican Seed's most exciting products and programs in the front of this catalogue. From Wave and Cool Wave branded products to Fuseables new Precision Multi-Pellets, we offer you higher quality and greater efficiency to ensure your continued satisfaction and success.

We're confident in what we sell, so you can be confident in what you grow...every time!

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Look for these Circle of Life EcoIndex symbols throughout the catalogue. See the inside back cover for more information.

- ◆ Low landscape/consumer water needs
- ♣ Low energy production
- ♣ Little or no chemical needs

wave[®]

Wave[®] Brand Sweeps Worldwide

Easy spreading colour is sweeping from coast to coast...continent to continent! Growers everywhere are harnessing the power of the Wave Brand. From the original Wave Purple Classic Petunia, the brand has grown to include four spectacular petunia series, two sure-selling programs and the super-performing Cool Wave[®] Pansy.

The Most-Asked-For Flower Brand

When home gardeners try Wave products, they want more! Marketing support keeps it top of mind and brings them back to the garden centre, where Wave branded containers make it easy for them to find their favorite flowers.



Cool Wave Spreading Pansies Make a Big Splash

They're the biggest intro to the Wave Brand since its 1995 launch. Cool Wave Spreading Pansies deliver outstanding performance and let you grow and sell this most popular brand Spring, Summer and Autumn!

wave® combos

Create Your Own Wave Medleys

Grow multicolour in one pot!

Simply place two to three 288-plugs in a single dibble hole. The plugs root together and grow into an attractive, more even blend in pots and baskets. Best of all, you create winning combos with the world's best-known petunia, royalty-free!



New Easy Wave Plum Vein, Shock Wave Pink Vein



New Easy Wave Red, Easy Wave White, Easy Wave Blue



New Easy Wave Burgundy Star, Easy Wave Neon Rose



New Easy Wave Red, Easy Wave White



New Shock Wave Coconut, Shock Wave Coral Crush



New Shock Wave Coconut, Shock Wave Coral Crush, Shock Wave Denim



Easy Wave Rosy Dawn, Shock Wave Denim



Shock Wave Coral Crush, Shock Wave Rose



Shock Wave Coral Crush, Shock Wave Denim



Shock Wave Rose, Shock Wave Red



Shock Wave Red, Shock Wave Denim, Shock Wave Coconut



Easy Wave Violet, Easy Wave Coral Reef



Shock Wave Denim, Shock Wave Pink Shades



Shock Wave Coconut, Easy Wave Burgundy Star



Easy Wave Violet, Easy Wave Neon Rose



Easy Wave Mystic Pink, Easy Wave Violet



Easy Wave Neon Rose, Easy Wave Mystic Pink

Note: Individual varieties are sold separately.

Made with Wave® Revs Up Mixed Combos

Boost the value of your premium containers by adding Wave Petunias. They grow compatibly with many sun-loving classes. And they're supported by the strong marketing and merchandising package that's a big part of this most-asked-for plant brand!



wave
PETUNIAS

cool wave® pansy

COOL
wave®
PANSIES

The Best Pansy Ever!

The Cool Wave series delivers performance so outstanding, it's the first non-petunia to wear the Wave Brand name.

The best-performing spreading pansy series delivers easy spreading colour for Spring and Autumn, so you can extend your growing season for the popular Wave Brand.

F1 SPREADING PANSY 🌞🌧️

Viola x wittrockiana

Cool Wave Series

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

Spread: 24 to 30 in./60 to 75 cm

Plug crop time: 6 weeks

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

USDA Hardiness Zones:

5 (-20°F/-29°C minimum temperature)

Supplied as primed seed.

- More vigorous than any other spreading pansy, so you need fewer plants per pot.
- Superior overwintering hardiness - the earliest pansy to return in the Spring.
- The most prostrate habit of any spreading pansy - a great spiller in combos and a fast-growing, high-impact groundcover.
- Easy-care, all-season colour - blooms hold up in rain and other inclement weather.

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

New Pastel Mixture contains White, Frost, Yellow, **New** Golden Yellow, plus lemon (not available separately)

NEW Golden Yellow



White



Yellow



New Golden Yellow



New Purple



Frost Natural variation and colour interest.



Violet Wing Natural variation and colour interest.



New Berries 'N Cream Mixture



New Mixture Improved



New Pastel Mixture

Grow fantastic Cool Wave pansies!

Cool Wave pansies pump out tons of cool-season colour. Like Wave petunias, it's their vigorous spreading habit that makes these the best pansies ever!

The PanAmerican Seed breeding and culture teams continue to conduct in-depth research on Cool Wave pansies to develop best practices that help you send the best-quality baskets and pots to market every time, Spring and Autumn.



Scott Rusch
Product Development Director

Following a few key recommendations on areas like the optimum Cool Wave plug size, best PGR rates, photoperiod and scheduling tips will maximize your success with this high-potential series. You'll find all you need in our comprehensive Cool Wave Production Handbook - available online in English and Spanish at panamseed.com or ask your preferred distributor for a copy.



Scan or go to youtube.com/pasvideotv



New Purple

shock wave® petunia

The Best for Baskets!

You've never seen petunia hanging baskets like these - each Shock Wave plant is blanketed with tons of colour from the amazing number of petite, high-impact flowers. Ideal for early-season sales, Shock Wave is the first and the earliest-to-flower spreading petunia series.

wave
PETUNIAS



Spark Mixture

SPREADING PETUNIA

Petunia x hybrida

Shock Wave Series

Height: 7 to 10 in./17 to 25 cm

Spread: 2.5 to 3 ft./75 to 90 cm

Flower Size: 1.5 to 2 in./4 to 5 cm

Plug crop time: 4 to 6 weeks

Transplant to finish: Spring 5 weeks, Summer 4 weeks

- Fast flowering and strong branching deliver the quickest fill of any spreading petunia.
- Shock Wave petunias bloom in a tight and consistent, 4 to 6-day window.
- Performs equally well in small spaces, hanging baskets, containers and mixed combos.
- Produces a mounded, spreading plant that is similar in shape and just as easy to manage as Easy Wave petunia.
- Excellent outdoor performers offer strong fill and season-long colour that the Wave family varieties are known for.
- Rebounds faster from overhead watering and rain than other petunias - stays fresher looking at retail and outdoors.

Coconut timing matches Pink Shades.

Coral Crush retains colour well in high light. Timing is similar to Pink Vein.

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

Red timing is similar to Pink Vein and Coconut.

Amp Mixture contains Rose, Red, Coral Crush.

Buzz Mixture contains Coconut, Rose, Pink Shades.

Power Mixture contains Deep Purple, Rose, Coconut.

Spark Mixture contains Coconut, Denim, Pink Shades.

Volt Mixture contains Red, Coconut, Denim.

shock wave® petunia



Coconut



Coral Crush



Deep Purple



Denim



Pink Shades



Pink Vein



Red



Rose



Spark Mixture



Amp Mixture



Buzz Mixture



Power Mixture



Volt Mixture



Power Mixture

wave[®]
PETUNIAS

easy wave® petunia

Perfect for Planters & Gardens!

The best and largest-selling spreading petunia on the market. Compared with other large-flowered spreading varieties, Easy Wave petunias are **easier** to flower under short days for early-season sales... **easier** to control on the bench... **easier** to produce in premium packs, pots and baskets for more plants per square foot/metre... **easier** to sell with strong built-in Wave branding.

wave
PETUNIAS

Easy Wave Series

Height: 6 to 12 in./15 to 30 cm
Spread: 2.5 to 3.25 ft./75 cm to 1 m

Flower Size: 2 to 3 in./5 to 7 cm

Plug crop time: 4 to 6 weeks

Transplant to finish: Spring 6 weeks, Summer 4 weeks

Supplied as pelleted seed.

- 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!
- The broadest range of applications of any large-flowered spreading petunias, including gardens and landscapes, and solo or mixed containers and baskets.
- Fast-growing plants bloom freely all season in landscapes and containers without cutting back, and tolerate heat and cooler conditions very well.
- Flower-filled plants grow a little more mounded than original Wave petunias, with a more controlled spread.

Blue flowers have some lighter blue shading.

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

Plum Vein is slightly more upright than others in the series.

Violet is slightly more upright than others in the series.

Beachcomber Mixture contains Blue, Coral Reef, Shell Pink.

Mixture contains Blue, Coral Reef, Mystic Pink, Neon Rose, Pink, Red, Rosy Dawn, Shell Pink, Violet, White.

Gelato Mixture contains Coral Reef, Neon Rose, White.

Great Lakes Mixture contains Violet, Blue, White.

Opposites Attract Mixture contains Violet, Coral Reef.

Plum Pudding Mixture contains Plum Vein, Violet.

South Beach Mixture contains Red, Violet, Coral Reef.

Starfish Mixture contains Burgundy Star, White.

Sweet Tart Mixture contains Mystic Pink, Neon Rose, White.

The Flag Mixture contains Red, White, Blue.



Blue

easy wave® petunia

The Wave® Smart Scheduling tool uses grower site-specific data to improve flower scheduling for Wave brand petunias. This Excel-based tool was developed in collaboration with floriculture researchers at Michigan State University. It allows you to predict time to first open flower for 15 varieties from the Wave assortment at specific average daily temperatures (ADTs) and daily light integrals (DLIs).

This tool lets you schedule specific Wave varieties on precise dates and help select varieties flowering in a tight window under their environment.

Go to panamseed.com/_WavePetunia.aspx



Blue



Burgundy Star



Coral Reef



Mystic Pink



Neon Rose



Pink



Plum Vein



Red



Rosy Dawn



Salmon



Shell Pink



Violet



White



Gelato Mixture



Great Lakes Mixture



Opposites Attract Mixture



Plum Pudding Mixture



South Beach Mixture



Starfish Mixture



Sweet Tart Mixture



The Flag Mixture



Beachcomber Mixture



Mixture

wave
PETUNIAS®

wave® petunia

Makes a Carpet of Color!

Wave has set the highest standard for petunia landscape performance. Today this award-winning series boasts a distinguished All-America Classics variety, plus two All-America Selections Winners and two Fleuroselect Gold Medal Winners!

wave
PETUNIAS

Wave Series

Height: 5 to 7 in./13 to 18 cm
Spread: 3 to 4 ft./90 cm to 1.2 m
Flower Size: 2 to 2.5 in./5 to 6 cm

Plug crop time: 5 to 6 weeks
Transplant to finish: Spring 7 to 9 weeks, Summer 4 to 8 weeks

Supplied as pelleted seed.

- Spectacular low-growing, spreading habit for landscapes and garden beds, as well as baskets and large colour bowls.
- Masses of flowers form along the entire length of each branch and bloom freely all season without being trimmed back.
- Wave petunias stand up well to both heat and cooler conditions.

Blue timing is similar to Purple Classic.

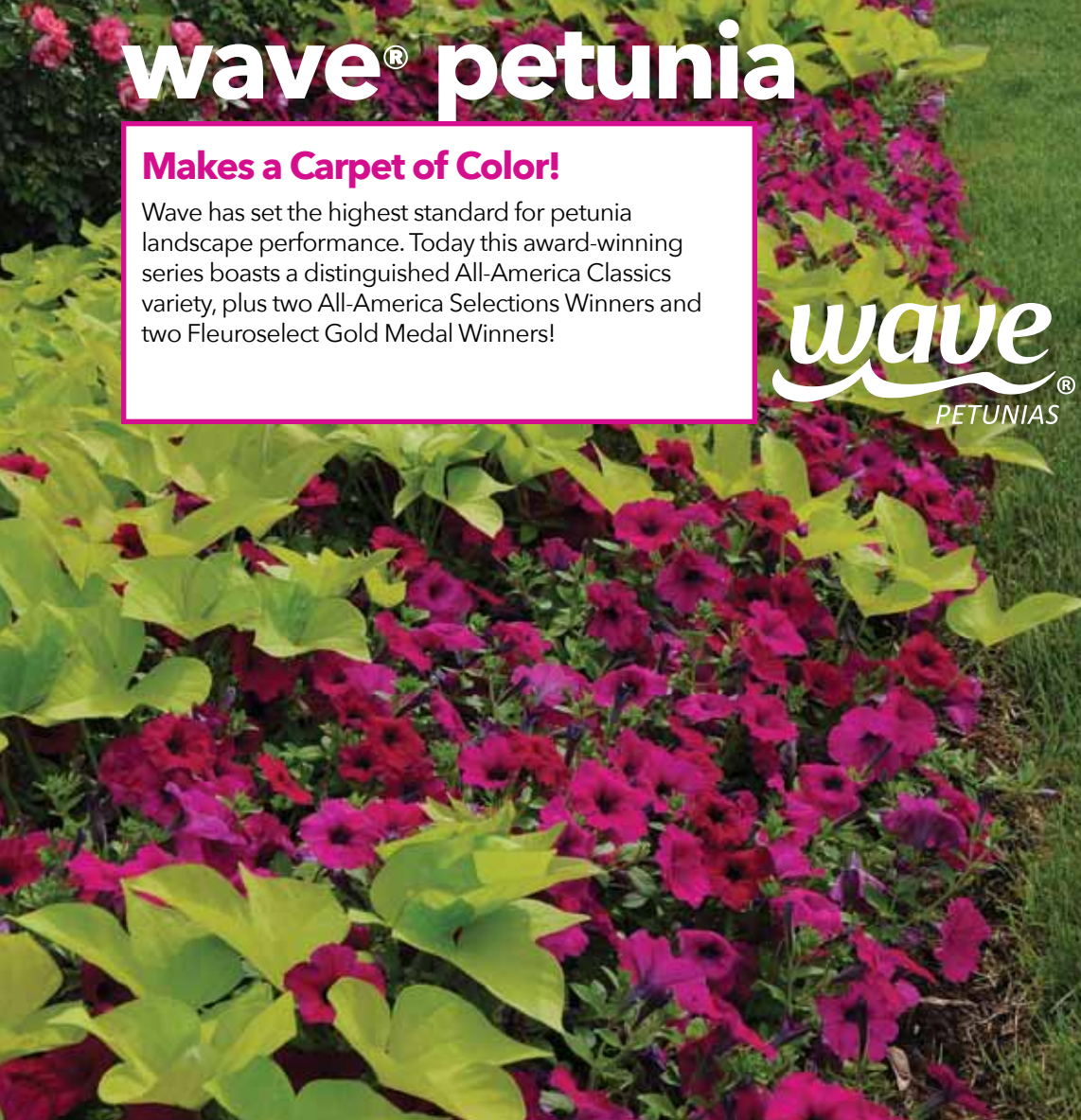
Lavender timing is similar to Misty Lilac.

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

Pink's timing is similar to Purple Classic.

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

Purple Classic blooms about 1 week later than the Lavender, Misty Lilac and Rose.



Purple



Blue

All-America Selections Winner,
Fleuroselect Gold Medal



Lavender

All-America Selections Winner,
Fleuroselect Gold Medal



Pink

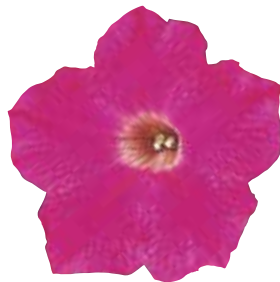


Purple



Purple Classic

All-America Classic



Rose



Misty Lilac

Natural variation and colour interest

tidal wave® petunia

Super-size Color for Big Spaces!

The tallest of the Wave family, award-winning Tidal Wave petunias create mountains of colour in big spaces. Plants first grow outward, then up, and finally in both directions to make an outstanding, shrublike shape that continues to hold its form all season.

wave®
PETUNIAS

Tidal Wave Series

Height, spread and spacing:

Growth habit is based on how closely plants are placed - the closer the spacing, the taller the plants.

- Spaced a minimum of 12 in./30 cm apart, Tidal Wave petunias form a dense, mounded hedge, 16 to 22 in./40 to 55 cm tall.

- Grown in a restricted space with support, they grow an extra 2 to 3 ft./60 to 90 cm upward, like a vine.

- Spaced up to 24 in./60 cm apart in the garden, the plants make a floriferous groundcover, spreading up to 5 ft./1.5 m across per plant.

Flower Size: 2 to 2.5 in./5 to 5.5 cm

Plug crop time: 5 to 6 weeks

Transplant to finish: Spring 11 to 13 weeks, Summer 9 to 11 weeks

Supplied as pelleted seed.

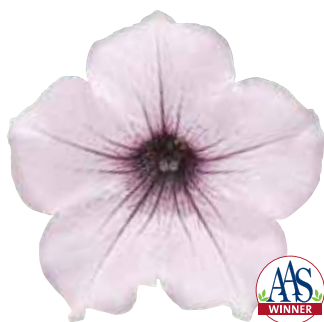
- An excellent landscape recovery performer with terrific recovery from rain, the plants resist lodging so they won't fall open and expose a bare centre like other petunias can.

- Well-suited for use as hedges, vines or floriferous groundcovers.

Silver flowers 1 to 2 weeks later than Cherry and Hot Pink.



Silver



Silver

All-America Selections Winner,
Fluoreselect Quality Award



Purple



Cherry



Hot Pink

NEW Precision Multi-Pellet

Fuseables® now give you more precise and balanced mixes

Our brand-new seed technology for Fuseables delivers the same natural-looking mixes with less variation, so your combos will be better balanced than ever.

What's new?

NEW Precision Multi-Pellets ensure more accuracy as each component is sown into the pellet, in the quantities required. You're guaranteed that all components are present at least 90% of the time. You get less variation - and better-looking mixes.

As always, Fuseables provide a balanced formulation of two or three varieties that germinate and grow together compatibly. It's easy to produce consistent mixes for all seasons in colour bowls, hanging baskets and large patio containers.



Equipment needed to sow:

- Drum Seeder size: 30
Hole size: 20/1000 in.
- Vacuum setting: 10-15 HG
(requires a 1.5 Horse Power pump)
- Dust Blow Off: 12 psi
- Air Curtain: 4-6 psi
- Seed Blow Off: < 1 psi (barley on)

Your seed combos move to a whole new level.

Original Fuseables really changed the way you grew mixes: you simply sowed the multi-pellets and knew nice-looking combos of some of the top-performing seed varieties would follow. Good... but we knew we could make it more predictable and more uniform.



Laurence Pallez
Global Product Manager

Combining forces with our Seed Technology team, we developed a way to make every pellet more accurate both in number of seeds and in having every "ingredient" present. All-new Fuseables Precision Multi-Pellets were born: one pellet into one plug into one 6 to 8-in./15 to 20-cm pot, and you're on your way to better-looking, less-variation combos.



Scan or go to panamseed.com/fuseables



NEW Multi-Species Healing Waters



NEW Multi-Species Sunny Day



NEW Petunia Strawberry Wine



NEW Petunia Strawberry Wine Easy Wave® Shell Pink, Dreams Red and Daddy Red Petunias



Petunia Blueberry Lime Jam Sophistica Lime Green and Dream Midnight Petunias



Petunia Flirtini Debonair Lime Green and Carpet Rose Petunias



Petunia Burgundy Starlight Dreams Burgundy and Easy Wave Burgundy Star Petunia



Petunia Lime Coral Dreams Coral Morn and Sophistica Lime Bicolor Petunias



Petunia Pink Dream Debonair Dusty Rose and Madness Pink Petunias



Bacopa Utopia Blutopia® and Snowtopia® Bacopa

CURRENT VARIETIES STILL AVAILABLE AS ORIGINAL FUSEABLES MULTI-PELLETS:



Juncus Twisted Arrows
Blue Arrows Juncus and *Juncus effusus spiralis* (curly juncus)

Height: 18 to 36 in./45 to 90 cm
Spread: 12 to 18 in./30 to 45 cm



Juncus Twisted Dart
Blue Dart Juncus and *Juncus effusus spiralis* (curly juncus)

Height: 14 to 16 in./35 to 40 cm
Spread: 10 to 18 in./25 to 45 cm



Petunia Pleasantly Blue Dreams Midnight and Daddy Blue Petunias



Coleus Chocolate Symphony
Chocolate Mint and Lime Delight Coleus



Petunia Vogue Shock Wave Ivory and Madness Lavender Glow Petunias



Coleus Under The Sun Crimson Gold and Lime Delight Coleus



NEW Multi-Species Sunny Day Cool Wave® Yellow Pansy and Clear Crystal® White Alyssum – the first cool-season combo in a pellet!



NEW Multi-Species Healing Waters Shock Wave® Denim Petunia, Easy Wave Violet Petunia and large-flowered blue Bacopa



Multi-Species Blue Dawn Easy Wave Rosy Dawn Petunia and Blutopia Bacopa



Multi-Species Cloud N Sky Shock Wave Coconut Petunia and Blutopia Bacopa



Multi-Species Silk N Satin Snowtopia Bacopa and Shock Wave Pink Shades Petunia

think outside the pack

Premium Container Inputs from Seed

Seed products for premium container production are now easily within your reach. Just stretch your imagination and check out some of PanAmerican Seed's more versatile varieties. Previously available only in vegetative form, these popular plants - and others - go beyond bedding use. Grow these unique selections in pots for premium mixed containers that make a dramatic impact at retail and on home patios.

More "Outside the Pack" Suggestions:

WARM SEASON COLOUR


Serena® Angelonia
Serenita® Angelonia
Dragon Wing® Begonia
Gryphon Begonia
Kong® Coleus
Premium Shade Coleus
Premium Sun Coleus
Debonair Petunia
Sophistica® Petunia

COOL SEASON COLOUR

Poetry Nemesia
Akila® Osteo
Dash Dianthus

ACCENTS

ColorGrass®
Silver Falls Dichondra
Emerald Falls Dichondra
Silver Mist Helichrysum
Purple Lady Iresine
Ornamental Millets
Ornamental Peppers
Silver Crest Plectranthus
Silver Shield Plectranthus



Sophistica® Lime Green and
Blackberry Petunia See page 96

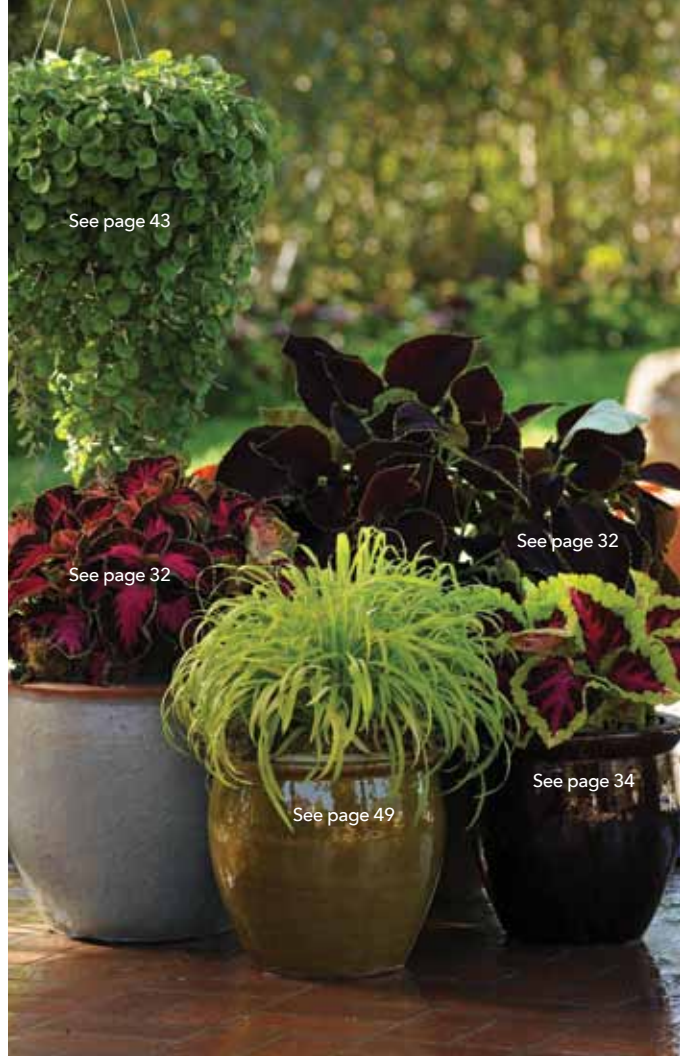


Chocolate Splash Coleus
See page 32

think outside the pack



New Sophistica® Lime Bicolor Improved Petunia See page 96



See page 43

See page 32

See page 32

See page 49

See page 34



Gryphon Begonia See page 28

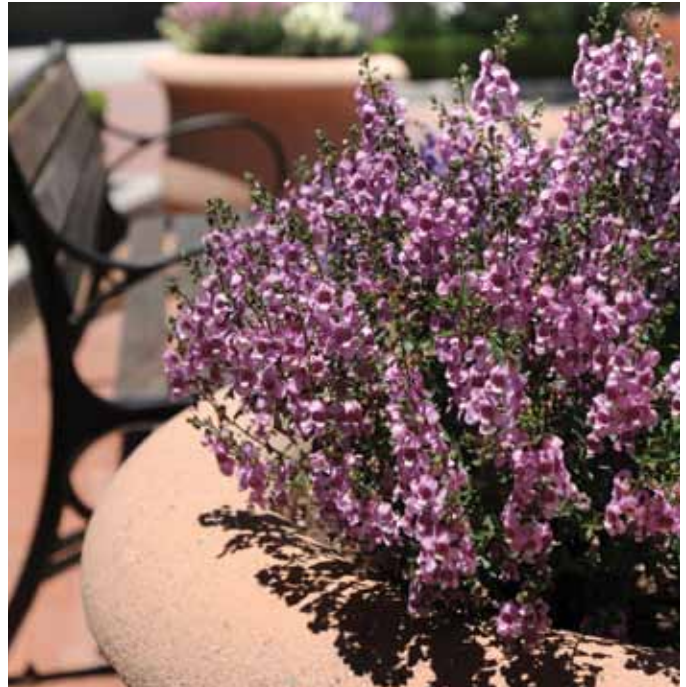


Sophistica® Blue Morn Petunia
See page 96

Clockwise from upper left: Emerald Falls Dichondra, Chocolate Mint Coleus, Kong Rose Coleus, Flashlights Miliium, Chocolate Covered Cherry Coleus



Akila® Osteospermum See page 82



Serena® Angelonia See page 24

panamerican seed® awards

Global Recognition

New PanAmerican Seed and Kieft Seed varieties have long been recognized as outstanding performers by customers and by three of the most prestigious organizations in the industry - All-America Selections, Fleuroselect and the Royal Horticultural Society.



Double Zahara Fire Zinnia
Fleuroselect Gold



Tidal Wave Silver Petunia
All-America Selections Winner



Sorbet XP Delft Blue Viola
Fleuroselect Gold



Jams 'N Jellies Blackberry Vinca
All-America Selections Winner



Purple Majesty Ornamental Millet
All-America Selections Winner



Black Pearl Ornamental Pepper
All-America Selections Winner



Cajun Belle Pepper
All-America Selections Winner



New Sunburst Zahara Zinnia
All-America Selections Winner



Wave Purple Classic Petunia
All-America Selections Winner



Pacifica XP Burgundy Halo Vinca
All-America Selections Winner

ALL-AMERICA SELECTIONS

Basil Purple Ruffles
Basil Sweet Dani
Dianthus Ideal Select Violet
(All-America Classic)
Diascia Diamonte Coral Rose
Dill Fernleaf
Lisianthus Forever Blue
Lisianthus Forever White
Marigold Golden Gate
Marigold First Lady
Ornamental Millet Purple Majesty
(Gold Medal Winner)
Ornamental Pepper Black Pearl
Ornamental Pepper Chilly Chili
Pepper Cajun Belle
Petunia Daddy Orchid
Petunia Pirouette Purple
Petunia Tidal Wave Silver
Petunia Wave Blue
Petunia Wave Lavender
Petunia Wave Purple Classic
(All-America Classic)
Snapdragon Rocket Bronze
Snapdragon Rocket Golden
Snapdragon Rocket Orchid
Snapdragon Rocket Red
Snapdragon Rocket Rose Shades
Snapdragon Rocket White
Vinca Jams 'N Jellies Blackberry

Vinca Pacifica XP Burgundy Halo
Viola Shangri-La Marina*
Viola Skippy XL Red-Gold
Viola Skippy XL Plum-Gold
Viola Rain Blue & Purple*
Zinnia Double Zahara Cherry
Zinnia Double Zahara Fire
Zinnia Zahara Starlight Rose
New Zinnia Zahara Sunburst

FLEUROSELECT GOLD MEDAL

Alyssum Snow Crystals
New Celosia Arrabona Red
Cosmos Sonata White
Gazania Daybreak Red Stripe
Marigold Honeycomb
Marigold Orange Boy
Marigold Orange Jacket
Nemesia Sundrops Mixture
Petunia Wave Blue
Petunia Wave Lavender
Viola Sorbet Delft Blue XP
Viola Sorbet Orange Duet XP
Zinnia Double Zahara Fire

FLEUROSELECT QUALITY AWARD

Alyssum Easter Bonnet Violet
Aster Meteor Violet Blue
Celosia Kosmo Purple Red
Cosmos Sonata Carmine

*Bred by Tokita Seed Co., Ltd.

Cosmos Sonata Pink
Cosmos Sonata Pink Blush
Cosmos Sonata Mixture
Dahlia Figaro Orange Shades
Dahlia Figaro Red Shades
Dahlia Figaro Violet Shades
Dahlia Figaro Yellow Shades
Dianthus Ideal Select Rose
Helianthus Prado Gold
Helichrysum Chico Red
Lobelia Regatta Blue Splash
Lobelia Regatta Rose
Lobelia Riviera Midnight Blue
Lobelia Riviera Rose
Lobelia Riviera Sky Blue
Marigold Orange Gate
Marigold Yellow Gate
Ornamental Pepper Black Pearl
Pansy Rally Lilac Cap
Petunia Tidal Wave Silver
Vinca Pacifica XP Burgundy Halo

FLEUROSELECT NOVELTY

Alyssum Clear Crystal White
Aster Meteor Carmine Red
Aster Meteor Yellow
Dahlia Figaro White
Dahlia Figaro Original
Field Grown Mixture
Lobelia Regatta Marine Blue

Lobelia Regatta Sapphire
Lobelia Regatta Sky Blue
Lobelia Sonata Blue Splash
Lobelia Riviera White
Marigold Bonanza Deep Orange
Ornamental Pepper
Peppa Blanca/Rosé
Verbena Quartz Purple XP
Zinnia Double Zahara Cherry
Zinnia Double Zahara Strawberry
Zinnia Zahara Starlight Rose

ROYAL HORTICULTURAL SOCIETY AWARD OF GARDEN MERIT

Alyssum Easter Bonnet Lavender
Alyssum Easter Bonnet Violet
Dianthus Amazon Neon Purple
Dianthus Amazon Rose Magic
Dianthus Dynasty Orchid
Dianthus Ideal Select Rose
Dianthus Ideal Select WhiteFire
Dianthus Sweet Coral
Dianthus Sweet Scarlet
Dianthus Sweet White

kieft seed awards



Bombay Purple Celosia
Fleuroselect Gold Medal



Mesa Yellow Gaillardia *All-America Winner and Fleuroselect Gold*



Winky Double White-White Aquilegia *Fleuroselect Novelty*



'Cheyenne Spirit' Echinacea
Fleuroselect Gold



Ellagance Purple Lavandula
Fleuroselect Gold



Tubular Bells Rose Penstemon
Fleuroselect Quality



Early Sunrise Coreopsis *All-America Winner and Fleuroselect Gold*



New Sparkle White Gaura
Fleuroselect Gold



PowWow Wild Berry Echinacea
All-America Selections Winner



New Dimension Rose Salvia
Fleuroselect Novelty



We're proud of our award-winning plants. Look for the All-America Selections and Fleuroselect logos that indicate winning varieties throughout this catalogue.

ALL-AMERICA SELECTIONS

Coreopsis Early Sunrise
Echinacea 'Cheyenne Spirit'
Echinacea PowWow Wild Berry
Gaillardia Mesa Yellow

FLEUROSELECT GOLD MEDAL

Armeria Ballerina Red
Armeria Ballerina White
Celosia Bombay Purple
Celosia Bombay Yellow Gold
Coreopsis Early Sunrise
Coreopsis Rising Sun
Echinacea 'Cheyenne Spirit'
Gaillardia Mesa Yellow
New Gaura Sparkle White
Lavandula Ellagance Purple
Lavandula Ellagance Sky
Lavatera Twins Hot Pink
Monarda Bergamo
New Penstemon Carillo Red

FLEUROSELECT QUALITY AWARD

Alyssum Luna
Ammi Graceland
Aquilegia Clementine Formula Mix
Aquilegia Winky Single Red-White
Aquilegia Winky Single Rose-Rose
Armeria Joystick Lilac Shades
Armeria Joystick Red
Armeria Joystick White
Asclepias Silky Gold
Bellis Bellissima Rose
Bellis Bellissima Rose Bicolour
Bellis Bellissima White
Celosia Punky Red
Celosia Spiky Pink
Celosia Startrek Rose Pink
Coreopsis Sunfire
Gomphrena QIS Carmine
Lavandula Ellagance Ice
Lavatera Twins Cool White
Nepeta Pink Cat
Penstemon Tubular Bells Rose
Penstemon Navigator
Salvia Patio Deep Blue
Salvia Patio Sky Blue
Sanvitalia Orange Sprite
Scabiosa Pink Diamonds
Trachelium Devotion Burgundy

FLEUROSELECT NOVELTY

Ageratum Red Sea
Aquilegia Clementine Blue
Aquilegia Clementine Dark Purple
Aquilegia Clementine Rose
Aquilegia Clementine Salmon Rose
Aquilegia Winky Early Sky Blue
Aquilegia Winky Double Red-White
Aquilegia Winky Double White-White
Armeria Ballerina Lilac
Digitalis Dalmatian Purple
Heuchera Malachite
Heuchera Melting Fire
Lavandula Ellagance Snow
Penstemon Tubular Bells Red
Penstemon Tubular Bells Wine Red
 With White Throat
Penstemon Carillo Purple
Penstemon Carillo Rose
Rudbeckia Moreno
Salvia New Dimension Blue
Salvia New Dimension Rose
Salvia Patio Lilac
Sanvitalia Vanilla Sprite
Silene Starry Dreams

ROYAL HORTICULTURAL SOCIETY AWARD OF GARDEN MERIT

Aquilegia Songbird Dove
Aquilegia Swan Burgundy and White
Aquilegia Swan Yellow



Bella Select Mixture Abutilon



Bella Apricot Shades Abutilon



Bella Deep Coral Abutilon



Bella Pink Abutilon



Bella Red Abutilon



Bella Salmon Shades Abutilon



Bella Vanilla Abutilon



Bella Yellow Abutilon

ABUTILON 🌻

Abutilon x hybridum (Flowering Maple, Chinese Bell Flower)

Bella F1 Series

Height: 14 to 18 in./35 to 45 cm
Spread: 14 to 18 in./35 to 45 cm

Plug crop time: 3 to 5 weeks
Transplant to finish: Spring 6 to 8 weeks, Autumn 8 to 10 weeks

Supplied as raw seed.

Bella is a compact series for outdoor containers or indoor lifestyle plants. Germinates easily. Well-branched plants bloom continuously, even in high heat. True dwarf needs little or no growth regulators. Large, 3-in./7-cm, bell-shaped blooms "look up" for a good show of colour; under cooler conditions, colours intensify.

ACMELLA

See *Spilanthes*, page 127.

AGERATUM 🌻

Ageratum houstonianum

High Tide F1 Series 🚩

Height: 14 to 16 in./35 to 40 cm
Spread: 12 in./30 cm

Plug crop time: 4 weeks
Transplant to finish: 7 to 9 weeks

Supplied as pelleted seed.

Forms a dense, mounded hedge of colour, taller and more vigorous than any other landscape ageratum. Outlasts standard bedding types in gardens and mixed containers. Also well-suited to indoor lifestyle plant programs. Strong branching fills out packs and pots quickly. Self-cleaning and easy care.



**High Tide Blue Ageratum
High Tide White Ageratum**



Blue Pearl Ageratum



Jazze Deep Rose Alstroemeria



Jazze Purple Rose Alstroemeria



Jazze Rose Frost Alstroemeria

Blue Pearl

Height: 5 to 8 in./13 to 20 cm
Spread: 12 in./30 cm

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

Supplied as raw seed and single-seed pellets.

Profuse top flowering ensures a good colour show all season in borders and mass plantings. Well-matched for earliness and vigour, the dark green-leaved plants keep their compact, well-branched and mounded habit in the garden. Requires less growth regulators than other dwarf ageratum.

ALSTROEMERIA 🌻

Alstroemeria x hybrida

Jazze® F1 Series

Height: 10 to 16 in./25 to 40 cm
Spread: 8 to 12 in./20 to 30 cm

Plug crop time: 8 to 9 weeks
Transplant to finish: Spring 12 to 17 weeks, Autumn 20 to 23 weeks

Supplied as raw seed.

Versatile series for indoor houseplants and outdoor containers and beds. Uniform flowering with large blooms. Plants flower all season in cool climates. When grown cool, no growth regulators needed. Performs as a perennial where the ground does not freeze. Prefers a sheltered growing location with partial shade; flowers may fade in full sun.



Purple Knight Alternanthera

ALTERNANTHERA 🌞
Alternanthera dentata

Purple Knight 🏆

Height: 18 to 36 in./45 to 90 cm (varies by location; taller in warmer conditions)

Spread: 2 to 3 ft./ 60 to 90 cm

Plug crop time: 5 to 6 weeks

Transplant to finish: 6 to 7 weeks

A Fantastic Foliage® selection.
Supplied as raw seed.

Economical, easy to produce. An ideal accent for mixed containers, excellent in the landscape as a vigorous bedding plant. Also well-suited to indoor lifestyle plant programs. Very heat tolerant - thrives even in subtropical Summer conditions. Foliage colour is darkest in full sun.

Mississippi Medallion Award Winner



Easter Bonnet Mixture Alyssum



Easter Bonnet Pastel Mixture Alyssum



Easter Bonnet Deep Pink Alyssum



Easter Bonnet Deep Rose Alyssum



Easter Bonnet Lemonade Alyssum



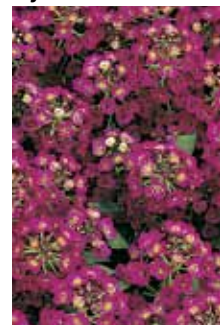
Easter Bonnet Peach Alyssum



Easter Bonnet White Alyssum



Easter Bonnet Lavender Alyssum *RHS Award of Garden Merit Winner*



Easter Bonnet Violet Alyssum *RHS Award of Garden Merit Winner, Fleuroselect Quality Award*

ALYSSUM 🌞
Lobularia maritima

Easter Bonnet Series

Height: 4 to 10 in./10 to 25 cm

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

Plug crop time: 4 to 5 weeks

Transplant to finish: 5 weeks

Supplied as raw seed and coated seed.

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

Easter Bonnet Pastel Mixture contains pastel shades from lavender and pink to white.



Clear Crystal Mixture



Clear Crystal Purple Shades U.S. Utility Patent No. 7,915,504, European Utility Patent Applied For



Clear Crystal Lavender Shades U.S. Utility Patent No. 7,915,504, European Utility Patent Applied For



Snow Crystals *Fleuroselect Gold Medal*



Clear Crystal White *Fleuroselect Novelty*

Clear Crystal® Series

Height: 6 to 10 in./15 to 25 cm
Spread: 12 to 14 in./30 to 35 cm
Plug crop time: 4 weeks
Transplant to finish: 4 to 6 weeks

Supplied as coated seed and multi-seed pellets.

This exciting tetraploid alyssum series delivers more vigour than standard diploid varieties to reduce production losses and increase profits.

- Few PGRs are needed in most markets - cool-season crop can be grown with little or no heat for Spring pack programs.
- More vigorous with larger flowers than Easter Bonnet.
- Fragrant, large blooms and stronger performance in containers and in-ground plantings.
- Well-matched series includes the first pigmented tetraploid alyssums.

ANEMANTHELE

Sirocco see **Grasses**, page 46.

Snow Crystals

Height: 6 to 10 in./15 to 25 cm
Spread: 12 to 14 in./30 to 35 cm
Plug crop time: 4 to 5 weeks
Transplant to finish: 6 to 7 weeks

Supplied as raw seed.

Large, pure white, scented flowers have outstanding "sales appeal." The tetraploid genetics of Snow Crystals add heat tolerance and vigour. Slightly smaller blooms, lighter green foliage and less controlled habit in the pack than Clear Crystal White.



Mona Lisa Bicolour Blue Shades Anemone



Mona Lisa Bicolour Red Anemone



Mona Lisa Deep Blue Anemone



Mona Lisa Deep Red Anemone



Mona Lisa Lavender Shades Anemone



Mona Lisa Orchid Shades Anemone



Mona Lisa Mixture Anemone



Mona Lisa Pink Anemone



Mona Lisa Scarlet With Eye Anemone



Mona Lisa Solid Scarlet Anemone



Mona Lisa White Anemone



Mona Lisa Wine Shades Anemone



Asparagus Myersii

ANEMONE

Anemone coronaria

Mona Lisa® Series

Height: 18 in./45 cm

Spread: 6 in./15 cm

Plug crop time: 8 weeks

Transplant to finish: 12 weeks

Supplied as raw seed.

4 to 4.5-in./10 to 12-cm blooms top sturdy 18-in./45-cm stems; up to 18 stems per plant per year. Ideal for cutting and design work; also an excellent bedding plant for cool coastal climates in large containers. Flowers under lower Winter light levels than other anemones. Well-suited for young plant production from March to April sowing in the Northern Hemisphere, September to October in the Southern. Low temperatures (46 to 54°F/8 to 12°C) promote optimum stem length for cut flower production. Requires no staking, netting or disbudbing. Suitable for greenhouse, field or garden cut flower production.

ANETHUM

See **Dill**, page 149.

ANGELONIA

See page 24.

ANTIRRHINUM

See **Snapdragon**, page 118.

AQUILEGIA

Songbird F1 Series, Swan F1 Series see **Kieft Seed**, page 160.

ASPARAGUS

A. meyerii/A. densiflorus 'Myersii'

Height: 2 to 3 ft./60 to 90 cm

Spread: 2 to 3 ft./60 to 90 cm

Plug crop time: 6 to 7 weeks

Transplant to finish: N/A

Supplied as raw seed.

Stiff, fully rounded plumes in varying shades of green have a mounding habit. High germination. Excellent for cut flowers, hanging baskets, mixed containers.

serena® & serenita®

F1 ANGELONIA 
Angelonia angustifolia

Serena and Serenita can be produced easily and economically - both series fit into warm bedding production with no pinching, saving you labour. Durable, well-branched plants with shatterproof blooms make long-lasting, high-impact retail displays. Performing well in a wide range of conditions, this duo is heat-loving, water-wise, and deer and rabbit-resistant.



Serena Purple

Serenita Purple

Serena Blue

Serena® Series

Height: 16 to 20 in./40 to 50 cm
Spread: 12 to 14 in./30 to 35 cm

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

Supplied as pelleted seed.

Serena, the first seed-grown angelonia, fills gardens, landscapes and mixed containers with unique dimensional colour.

- This care-free, continuous bloomer performs well under a wide range of conditions.
- Durable Serena is a perfect choice for consumers looking for water-wise, heat-loving plants.
- Plants grow up to 50% larger in Floridalike conditions.

Winner of *Mississippi Medallion Award*, *Dallas Arboretum FlameProof Award*, *Louisiana Super Plants Award*.

Serena White is winner of *North Texas Winner's Circle Award*.

Waterfall Mixture includes Purple plus a sky blue and white segregating mix (not available separately).

Serenita® Series

Height: 12 to 14 in./30 to 35 cm
Spread: 12 to 14 in./30 to 35 cm

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

Supplied as pelleted seed.

Serenita has all the good looks, durability and easy production of its big sister, Serena - with a few additional benefits.

- Serenita is an excellent solution where shorter and more manageable material is needed.
- The bright, intense colour of Serenita Raspberry turns heads at retail.
- Grow Serenita with less to no PGRs for cost savings.

serena® & serenita®



Serena Blue



Serena Purple

Deliver "bullet-proof" angelonias your way.

Serena® took the market by storm as the first-ever seed angelonia: easy and no-pinch in the greenhouse...full and lush at retail... care-free for gardeners. All in all, stellar performers with long-lasting 3D color.

Then growers in the southern U.S. and areas like Southeast Asia asked for more manageable varieties for their benches. And that's where Serenita® comes in. We bred for plants that are naturally more compact but with the same perks as Serena. Worldwide trialing proves Serenita is a peak performer in very hot/humid night temps like Florida and other southern climates. It's also great for high-density production in the North.



Lisa Lacy
Global Product Manager

Bottom line: You can grow high-appeal Angelonias at a terrific value to your program, whatever Mother Nature dishes out.



Scan to see video or go to panamseed.com/serenavideo



Serena White



New Serena Lavender Improved



Serena Mixture



Serena Waterfall Mixture



Serenita Mixture



Serenita Raspberry



Serenita Purple



Serenita Lavender Pink



Serenita White



Meteor Violet Blue Aster *Fleuroselect Quality Award Winner*



Meteor Carmine Red Aster *Fleuroselect Novelty*



Pot 'N Patio Blue Aster



Pot 'N Patio Mixture Aster



Meteor Rose Pink Aster



Meteor Yellow Aster *Fleuroselect Novelty*



Pot 'N Patio Pink Aster



Pot 'N Patio Scarlet Aster



Pot 'N Patio White Aster



Blutopia Bacopa



Snowtopia Bacopa

ASTER

Callistephus chinensis

CUT FLOWER ASTER

Meteor Series

Height: 30 to 40 in./80 cm to 1 m

Plug crop time: 4 to 5 weeks

Transplant to finish: 13 to 16 weeks

Supplied as raw seed.

Offers large, 3.5 to 4-in./9 to 10-cm flowers on thicker, longer stems than small-flowered varieties. Excellent vigour plus well-matched timing and height make Meteor ideal for both field production and greenhouse forcing. Harvest when 2 to 3 flowers per stem have developed colour. Also performs well as a home garden cut flower.

Mixture (Not pictured)

POT ASTER

Pot 'N Patio Series

Height: 6 in./15 cm

Spread: 6 in./15 cm

Plug crop time: 4 to 5 weeks

Transplant to finish: 8 weeks

Supplied as raw seed.

Dwarf plants flower just 90 days from sowing during the short days of Winter and early Spring without additional lighting. Perform well in patio pots, colour bowls and mixed container plantings, producing 2.5 to 3-in./5 to 7-cm, double blooms. Not recommended for landscape plantings.

BACOPA (SUTERA)

Sutera cordata

Fuseables® Blue Dawn

Fuseables Silk N' Satin

Fuseables Utopia

See page 16.

Blutopia® & Snowtopia®

Height: 6 in./15 cm

Spread: 18 to 24 in./45 to 60 cm

Plug crop time: 3 to 4 weeks

Transplant to finish: 4 to 6 weeks

Supplied as multi-seed pellets.

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

- Blutopia has lavender-blue flowers that are the same colour as traditional blue bacopas. Slightly smaller leaves than Snowtopia, typical of vegetative blue bacopas. Mounded habit compared to slightly prostrate Snowtopia.

- Snowtopia produces beautiful white flowers that offer the same colour as traditional white bacopas. Larger leaves than Blutopia, typical of vegetative white bacopas.

BASIL

See **Vegetables & Herbs**, page 148.



BabyWing Pink



Dragon Wing Pink European Community Plant Variety Rights Number 10351



BabyWing White Bronze Leaf



BabyWing White



Dragon Wing Red European Community Plant Variety Rights Number 9611

BEGONIA 
Begonia x hybrida

BabyWing F1 Series

Height: 12 to 15 in./30 to 40 cm
Spread: 10 to 12 in./25 to 30 cm

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

Supplied as pelleted seed.

Maintenance-free BabyWing flowers 10 days to 2 weeks earlier than Dragon Wing, with continuous color and small Dragon Wing-shaped leaves.

- Season-long performance in landscapes and containers.
- Extremely heat tolerant and handles stressful conditions well.
- Upright, mounded plants have a controlled habit that stand up to shipping.

White may develop a slight pink blush in full sun. Well-matched to Pink.

Dragon Wing F1 Series

Height: 12 to 15 in./30 to 40 cm
Spread: 15 to 18 in./38 to 45 cm

Plug crop time: 7 to 8 weeks
Transplant to finish: 7 to 9 weeks

Supplied as pelleted seed.

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 landscaping 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."

Georgia Gold Medal Winners

BELLIS
Bellisima Series
Medicis Series
See **Kieft Seed**, page 166.

BRACTEANTHA
See **Helichrysum**, page 53.



Gryphon Begonia



Marine Bells Browallia



Silver Bells Browallia



Blue Bells Browallia



Maracas Brazilian Fireworks

FOLIAGE BEGONIA 🌈🌈

Begonia x hybrida

Gryphon

Height: 14 to 16 in./35 to 40 cm in shade, 12 to 14 in./30 to 35 cm in partial sun; may grow to 30 in./75 cm tall in hot/humid conditions
Spread: 16 to 18 in./40 to 45 cm

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

A Fantastic Foliage® selection.
Supplied as multi-seed pellets.

Showy foliage begonia combines beauty with strength and durability – makes a dramatic statement in mixed or solo containers. It's the perfect companion to Dragon Wing® begonia, Kong® coleus, Super Elfin® and Impreza® impatiens, Divine New Guinea impatiens and Silver Crest plectranthus.

- Fits into existing begonia plug culture, easier and quicker to produce than vegetative foliage types.
- More tolerant of stressful conditions than Rex begonias for less shrink.
- Retailers appreciate Gryphon's showy displays, low water needs, longer sales window, and versatility for indoor and outdoor sales.
- The unique tropical appearance makes this a perfect impulse item.
- Lets consumers extend their enjoyment by bringing plants indoors at the end of the season.
- Easy-care, low-water plants deliver success and make repeat customers.

BRAZILIAN FIREWORKS 🌈🌈

Porphyrocoma pohliana

Maracas

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

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

A Fantastic Foliage® selection.
Supplied as raw seed.

Heat-loving tropical shade plant performs well as a bedding plant, groundcover or in containers. Best grown warm in production. PGRs will enhance silver variegation in the foliage and encourage earlier flowering.

BROWALLIA 🌈

Browallia speciosa major

Bells Series

Height: 10 to 12 in./25 to 30 cm
Spread: 12 to 14 in./30 to 35 cm

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

Supplied as raw seed.

Ideal for hanging baskets, tubs and mixed containers, the free-flowering, vigorous plants have 1.5-in./4-cm blooms. Requires long days to bloom; packs flower in 14 weeks.

CALLISTEPHUS
 See **Aster**, page 26.

CAPSICUM
 See **Ornamental Pepper**, page 93.

CAREX
Amazon Mist, Bronco, Phoenix Green, Red Rooster see **Grasses**, page 46.



New First Flame Yellow



New First Flame Red



New First Flame Orange



New Arrabona Red Fleuroselect Gold Medal

CATHARANTHUS

See *Vinca*, page 131.

CELOSIA 🌻

Celosia plumosa

PanAmerican Seed now offers you three distinctive types of *C. plumosa*. Adding to our short Icecream series, we have introduced mid-height Arrabona Red and the tall First Flame series to create a winning lineup that meets all your plumosa type needs.

New First Flame Series

Height: 14 to 25 in./35 to 50 cm

Spread: 10 to 16 in./25 to 40 cm

Plug crop time: 3 to 4 weeks

Transplant to finish: 8 to 10 weeks

Supplied as filmcoated seed.

Excellent, brightly coloured Summer crop finishes two weeks earlier to reduce production costs. First Flame makes ideal border plants, also good in containers.

- Branches like a regular plumosa to produce full blooms.
- Uniform across all three colours for a fuller look in containers.
- Ideal for Asian and Southern markets.
- First Flame will not perform well in cool conditions like Pacific Northwest.

New Arrabona Red

Height: 10 to 14 in./25 to 35 cm

Spread: 10 to 15 in./25 to 38 cm

Plug crop time: 3 to 4 weeks

Transplant to finish: 8 to 10 weeks

Supplied as filmcoated seed.

What growers have waited for in celosia is finally here - the first well-branched intermediate plumosa type. Arrabona Red features striking red-orange flowers on compact, sturdy plants.

- A stunning new colour in plumosa type celosia.
- Superior overall uniformity and excellent germination.
- Arrabona Red tolerates drought and loves the heat - great for tropical, subtropical and continental climates.
- Exceptionally long-flowering in borders and containers.



Icecream Mixture



Icecream Cherry



Icecream Peach



Icecream Mango



Icecream Strawberry



Icecream Banana



Icecream Orange



Glow Carmine



Glow Pink



Glow Red

Icecream Series

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

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

Supplied as filmcoated seed.

Plant them in containers or gardens - Icecream won't melt in the sun! This heat-resistant, long-lasting series stands tough when temperatures rise.

- Early, compact and well-branched.
- Series produces large, tight flower heads in strong colours for striking sales appeal.
- Versatile Icecream is great for pack and small pot programs.
- Puts on stunning shows in patio planters and gardens.

Glow Series

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

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

Supplied as raw seed.

Finishing slightly later than other compact celosia, Glow has the best garden performance under a wide range of conditions, outperforming standard celosia in heat. Uniform, well-branched plants are ideal for landscapes, containers, mixed plantings. Also works in indoor lifestyle plant programs.



Kosmo Cherry



Kosmo Pink



Kosmo Purple Red
Fleuroselect Quality Award.



New Kosmo Salmon



Kosmo Vanilla



New Kosmo Yellow



New Kosmo Mixture Improved

CELOSIA 🌻

Celosia spicata

Kosmo Series

Height: 8 in./20 cm

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

Plug crop time: 3 to 4 weeks

Transplant to finish: 9 to 11 weeks

Supplied as filmcoated seed.

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. Kosmos has a short production time, long retail shelf life, excellent garden performance.

CINERARIA

See **Dusty Miller**, page 43.

COBAEA 🌻

Cobaea scandens

Cobaea (Not pictured)

Vine length: Vining to 25 ft./7.5 m

Supplied as raw seed.

A native of Mexico, cobaea is a tender, Summer-blooming perennial. Vigorous, free-flowering vines have large, purple, bell-shaped blooms. In North America, plants started in April will bloom in August/September and continue until frost. High germination. Excellent for packet seed sales.

premium sun coleus

Premium Coleus for Sun and Shade

For your convenience, we grouped our premium coleus by sun tolerance. The coleus on these two pages can tolerate full sun in regions of high relative humidity such as Hardiness Zones 9 and 10, or in areas with low light intensity such as Northern Europe. Foliage will scorch in full sun with low relative humidity. All coleus are suitable for shade.



Premium Sun Crimson Gold Coleus

COLEUS

Solenostemon scutellarioides

Fuseables® Chocolate Symphony, Under The Sun, see page 16.

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

Supplied as pelleted seed.

Chocolate Covered Cherry 🌞🌱

Height: 12 to 14 in./30 to 35 cm
Spread: 10 to 12 in./25 to 30 cm

Boldly patterned, multi-coloured foliage makes a great companion to our other "chocolate" coleus: Chocolate Mint, Chocolate Splash and Dark Chocolate.

- Non-fading colour pattern: rose centre on each leaf is surrounded by deep mahogany and edged with green.
- Late flowering and dwarf size are adaptable to pack and pot programs.
- Performs well in planters and small gardens in sun and shade.

Chocolate Mint 🌞🌱

Height: 14 to 20 in./35 to 50 cm
Spread: 12 to 14 in./30 to 35 cm

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

Chocolate Splash 🌞🌱

Height: 12 to 16 in./30 to 40 cm
Spread: 12 to 16 in./30 to 40 cm

- Each mid-sized green leaf is highlighted by a chocolate splash that varies with age and light exposure.
- Upright accent plants are well-suited to in-ground plantings and large containers.

Crimson Gold 🌞🌱

Height: 26 in./65 cm
Spread: 18 to 22 in./45 to 55 cm

Well-branched, vigorous plants show off beautiful, bicolour foliage all season. Formerly Versa Crimson Gold.

- Versatile variety thrives in sun and shade.
- Deep red leaves with golden green edge.
- Late-flowering.

premium sun coleus



Chocolate Covered Cherry



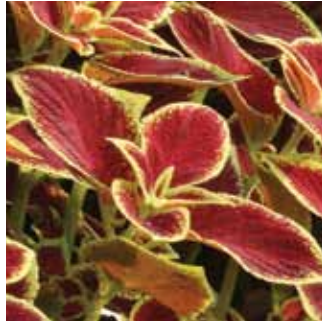
Chocolate Splash



New Mighty Mosaic



Chocolate Mint



Crimson Gold



Dark Chocolate



Lime Delight



Rose to Lime Magic: Stage 1, 2 & 3



Watermelon

Dark Chocolate 🌞🌧️

Height: 24 to 30 in./60 to 75 cm
Spread: 18 to 24 in./45 to 60 cm

Upright accent plants have mid-size leaves in a rich mahogany brown. Slight touches of burgundy appear especially in full sun conditions.

- A good choice for large mixed containers and in-ground plantings.
- Rich mahogany brown partners well with many colour schemes.

Lime Delight 🌞🌧️

Height: 28 in./70 cm
Spread: 18 to 22 in./45 to 55 cm

Bright foliage is the centre of attention in designer gardens. Vibrant colour plays well with others. Formerly Versa® Lime.

- Versatile variety thrives in sun and shade.
- Eye-catching, lime green to golden foliage.

New Mighty Mosaic 🌞🌧️

Height: 18 to 26 in./45 to 65 cm
Spread: 18 to 22 in./45 to 55 cm

Striking seed coleus has multi-coloured foliage for mighty retail appeal.

- Very late-flowering variety is great in the shade and tolerates sun under high humidity.
- Landscape coleus meets retailer and consumer demand for longevity and versatility.

Rose to Lime Magic 🌞🌧️

Height: 24 in./60 cm
Spread: 18 to 22 in./45 to 55 cm

Unique variety changes colour as the season progresses - rose colour in leaves eventually dissolves, exposing green margins and cream centres. Formerly Versa® Rose to Lime.

- Bred to perform in full sun and full shade.
- Late to flower, allowing patterned foliage to shine all season long.
- Well-branched and vigorous in the landscape.

Watermelon 🌞🌧️

Height: 24 in./60 cm
Spread: 18 to 22 in./45 to 55 cm

Watermelon-coloured leaves with green edges in cool conditions mature to deep pink under warmer conditions. Formerly Versa® Watermelon.

- Can be used in sunny or shady landscapes.
- Beautifully coloured foliage with late flowering.

premium shade coleus



Kong Empire Mixture



Kong Green U.S. Plant Variety Protection Number 200500019



Kong Mosaic U.S. Plant Variety Protection Number 200500015



Kong Salmon Pink U.S. Plant Variety Protection Number 200900035



Kong Red U.S. Plant Variety Protection Number 200500015



Kong Rose U.S. Plant Variety Protection Number 200500017



Kong Scarlet U.S. Plant Variety Protection Number 200500016

Kong® Series 🌞

Height: 18 to 20 in./45 to 50 cm
Spread: 15 to 18 in./38 to 45 cm

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

Supplied as pelleted seed.

This exciting series features extremely large leaves and unique patterns on tall, well-branched accent plants.

- Excellent in large containers and landscapes; also works well as an indoor lifestyle plant.
- Prefers full shade for best performance.

Empire Mixture contains Red, Rose, Salmon Pink, Scarlet.

KONG Coleus are bred by Sakata Seed Corporation.

premium shade coleus



New Kong Jr. Green Halo



New Kong Jr. Lime Vein



New Kong Jr. Scarlet



New Kong Jr. Rose

New Kong Jr. Series 🌈

Height: 18 to 24 in./45 to 60 cm

Spread: Approx. 20 to 35 in./50 to 90 cm

Plug crop time: 5 to 6 weeks

Transplant to finish: 3 to 4 weeks

Supplied as pelleted seed.

Kong Jr.'s heart-shaped leaves are 30% smaller than Kong's, but just as stunning. They make Kong Jr. easier to ship, with less breakage and less loss.

- Leaf size is well-matched across the series.
- Well-branched, tidy habit is irresistible to shoppers.
- Performs well in landscapes, patio planters and mixed containers.
- Adds unique colours and patterns not available in Kong series.

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



Black Dragon



Wizard Coral Sunrise



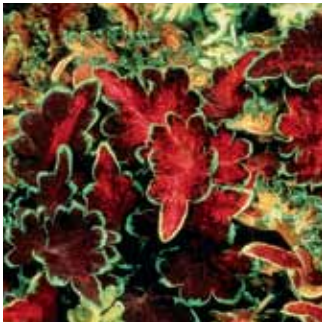
Wizard Golden



Wizard Jade



Wizard Select Mixture



Carefree Mixture



Wizard Mosaic



Wizard Pastel



Wizard Pineapple



Wizard Mixture



Wizard Scarlet



Wizard Sunset



Wizard Velvet Red

PACK COLEUS

Black Dragon 🌻 🌻

Height: 12 to 14 in./30 to 35 cm

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

Plug crop time: 5 to 6 weeks

Transplant to finish: 5 to 6 weeks

Supplied as raw seed.

Exotic, serrated leaves and unusual texture set this variety apart from other coleus.

- Deep red colour with a purplish-black edge.
- Outstanding in packs or pots.

Carefree Mixture 🌻 🌻

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

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

Plug crop time: 4 to 5 weeks

Transplant to finish: 5 to 6 weeks

Supplied as raw seed.

Dwarf, basal-branching plants feature many small, deeply lobed, 1.5-in./4-cm leaves. Very appealing in partial to full shade.

Wizard® Series 🌻 🌻

Height: 12 to 14 in./30 to 35 cm

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

Plug crop time: 5 to 6 weeks

Transplant to finish: 7 to 9 weeks

Supplied as raw seed.

Low-maintenance, uniform and basal-branching plants are late-flowering, extending their landscape value. Mid-sized leaves.

Coral Sunrise can start out salmon pink under cooler conditions and mature to lighter pink when it is warmer. Good in sun.

COREOPSIS

Early Sunrise, Rising Sun, Sunfire see **Kieft Seed**, page 172.

CORYNEPHORUS

See **Grasses**, page 47.



Sonata Pink Cosmos *Fleuroselect Quality Award*



Sonata Pink Blush Cosmos *Fleuroselect Quality Award*



Sonata Mixture Cosmos *Fleuroselect Quality Award*



Sonata Carmine Cosmos *Fleuroselect Quality Award*



Sonata White Cosmos *Fleuroselect Gold Medal*



Antiquity Cosmos *Fleuroselect Novelty*



Tropic Yellow Splash Crossandra



Tropic Flame Crossandra



Dynamite Cuphea

COSMOS 🌻

Cosmos bipinnatus

Antiquity

Height: 20 to 30 in./50 to 75 cm
Spread: 12 to 14 in./30 to 35 cm

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

Supplied as raw seed.

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

Sonata Series

Height: 24 in./60 cm
Spread: 12 to 14 in./30 to 35 cm

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

Supplied as Premium Grade raw seed.

Extremely easy-to-grow, dwarf series was bred especially for the amateur market; however, professional growers choose Sonata because of its capabilities for blooming in the pack and pot.

CROSSANDRA 🌻

Crossandra infundibuliformis

Tropic Series

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

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

Supplied as raw seed.

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

Tropic Yellow Splash flowers mature quickly to cream with yellow base in Florida trials.

CUPHEA 🌻

Cuphea ignea (Cigar Plant)

Dynamite

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

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

Supplied as raw seed.

Well-suited to solo and mixed containers. Also works in indoor lifestyle plant programs.



Figaro Orange Shades Dahlia
Fleuroselect Quality Award



Figaro Red Shades Dahlia
Fleuroselect Quality Award



Bouquet Rose Magic Dianthus



Figaro Violet Shades Dahlia
Fleuroselect Quality Award



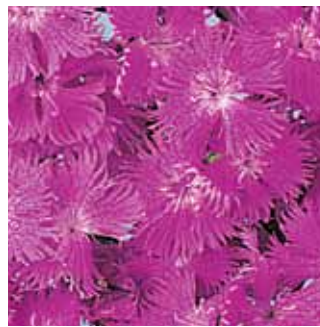
Figaro White Dahlia
Fleuroselect Novelty



Figaro Yellow Shades Dahlia
Fleuroselect Quality Award



Figaro Original Field Grown Mixture Dahlia
Fleuroselect Novelty



Bouquet Purple Dianthus



Bouquet Rose Dianthus

DAHLIA
Dahlia x hybrida

Figaro Series 🌟

Height: 14 to 18 in./35 to 45 cm
Spread: 10 to 12 in./25 to 30 cm

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

Supplied as raw seed.

Premium pack item is ideal for borders and containers. Varieties are sold as "shades" due to some variation in colour, habit and doubleness.

Original Field Grown Mixture contains 100% semi-double and fully double flowers.

DELPHINIUM
Belladonna (Clivedon Beauty)

Dasante Blue F1, Diamonds Blue F1, Guardian F1 Series see Kieft Seed, page 174.

DESCHAMPSIA
 See Grasses, page 49.

F1 SINGLE DIANTHUS 🌞
Dianthus barbatus interspecific

Bouquet F1 Series 🌟🌟

Height: 18 to 24 in./45 to 60 cm
Spread: 10 to 12 in./25 to 30 cm

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

USDA Hardiness Zones: 4 to 9 (-30 to 20°F/-34 to -7°C minimum temperature)

A First-Year-Flowering Perennial.

Supplied as pelleted seed.

Lacy, slightly scented flowers top strong, well-branched stems. A "must" for landscape programs and backyard cutting gardens with season-long flowering and good heat tolerance. Makes an excellent bouquet filler with high yields of saleable stems. Greenhouse-grown plants produce longer stems, with finished heights up to 36 in./90 cm.

Rose Magic blooms open white and mature to light pink, then deep rose colour; most colour variation in high light and cool temperatures of outdoor production.

Purple is a *Mississippi Medallion and Minnesota Select Perennial*.



Amazon Neon Duo



Amazon Rose Magic *RHS Award of Garden Merit*



Amazon Neon Purple
RHS Award of Garden Merit



Amazon Neon Cherry

Amazon F1 Series

Height: 18 to 36 in./45 to 90 cm
Spread: 10 to 12 in./25 to 30 cm

Plug crop time: 4 to 5 weeks
Transplant to finish: 11 to 22 weeks

USDA Hardiness Zone: Performs as a semi-hardy annual in Zone 7 (0°F/-18°C minimum temperature) and milder.

Supplied as pelleted seed.

Exceptional landscape and bedding plant can take a lot of heat!

- Excellent commercial and home garden cut flower.
- No vernalization needed.
- Grows 24 in./60 cm tall in landscapes. As a Winter greenhouse-grown cut flower crop, height is up to 36 in./90 cm, with tallest growth from early Autumn-transplanted plants.

Neon Duo is a 50:50 mix of Neon Cherry and Neon Purple.

Rose Magic blooms start white and age to pink, then to deep rose; all colours show on individual flower heads.



Dash Pink



Sweet Red



Sweet Scarlet RHS Award of Garden Merit



Sweet Purple



Dash White



New Sweet Black Cherry



Sweet Purple White Bicolor



Dash Mixture



Dash Violet



Sweet Coral RHS Award of Garden Merit



Sweet White

F1 SINGLE DIANTHUS 🌻

Dianthus barbatus

Dash F1 Series 🚩

Height: 15 to 20 in./38 to 50 cm

Spread: 12 to 14 in./30 to 35 cm

Plug crop time: 4 to 5 weeks

Transplant to finish: Late Spring/early Summer 9 to 10 weeks, late Summer/Winter 11 to 12 weeks

Supplied as pelleted seed.

Compact, uniform and more basally branched than the Sweet series, Dash is the best *D. barbatus* for premium quarts and gallons.

- Dash varieties need fewer to no PGRs for container production.
- Requires no vernalization for flowering - easy, year-round production.
- Low-energy crop can be grown cool for cost savings.
- Flowers 7 to 10 days earlier than Sweet varieties.

Mixture also contains Crimson and Magician (not available separately).

Sweet F1 Series 🚩

Height: 18 to 36 in./45 to 90 cm

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

Plug crop time: 4 to 5 weeks

Transplant to finish: Spring 11 weeks, late Autumn/Winter 12 to 16 weeks

Supplied as pelleted seed.

No vernalization required for first-year-flowering. Produces high yields of saleable stems for florists. Very uniform for height and flowering time. Taller growth comes from early, Autumn-transplanted, greenhouse-grown plants. Good frost and heat tolerance. Can be marketed in 6-in./15-cm to gallon containers.

Scarlet is 3 to 5 days later to flower than others in the series.

Mixture (Not pictured)

Wee Willie (Not pictured)

Height: 6 in./15 cm

Spread: 6 in./15 cm

Plug crop time: 5 weeks

Transplant to finish: 10 to 11 weeks

Supplied as raw seed.

Early, open-pollinated mixture produces colourful, single blooms on compact plants. Good pack performer.



Ideal Select Mixture



Ideal Select Violet All-America Selections Classic



Ideal Select Red



Ideal Select Raspberry



Ideal Select Salmon



Ideal Select Rose Fleuroselect Quality Award, RHS Award of Garden Merit



Ideal Select WhiteFire RHS Award of Garden Merit



Ideal Select White



Ideal Blush



Ideal Deep Violet

F1 SINGLE DIANTHUS 🌻

Chinensis x barbatus

Ideal Select Series 🏆 🏆

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

Spread: 8 in./20 cm

Plug crop time: 4 to 5 weeks

Transplant to finish: 4 to 5 weeks

Supplied as pelleted seed and raw seed.

Bench run faster and ship all together!

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

Ideal Series

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

Spread: 8 in./20 cm

Plug crop time: 4 to 5 weeks

Transplant to finish: 4 to 5 weeks

Supplied as pelleted seed.

Early-flowering, frost-resistant performers for Spring and Autumn high-density and small pot programs. Produces bright green leaves and clusters of 1.25-in./3-cm diameter blooms.



Floral Lace White Dianthus



Floral Lace Rose Dianthus



Floral Lace Light Pink Dianthus



Floral Lace Mixture Dianthus



Dynasty White Blush Dianthus



Dynasty Rose Lace Dianthus



Dynasty Pink Magic Dianthus



Floral Lace Crimson Dianthus



Floral Lace Cherry Dianthus



Floral Lace Pearl Dianthus



Floral Lace Picotee Dianthus



Floral Lace Purple Dianthus



Floral Lace True Rose Dianthus



Floral Lace Violet Picotee Dianthus



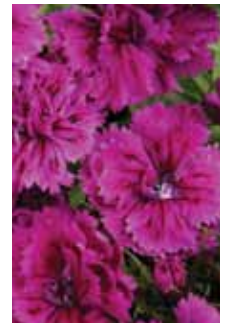
Floral Lace Violet Dianthus



Dynasty Purple Dianthus



Dynasty Red Dianthus



Dynasty Orchid Dianthus

RHS Award of Garden Merit

Floral Lace Series

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

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

Supplied as raw and pelleted seed.

Flowers early – and big!

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

Lilac (Not pictured)

F1 DOUBLE DIANTHUS

Dianthus barbatus interspecific

Dynasty Series

Height: 16 to 20 in./40 to 50 cm
Spread: 10 in./25 cm

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

USDA Hardiness Zone: 6 to 9 (-10° to 20 F/-23° to -7 C minimum temperature)

Supplied as pelleted seed.

Very well-branched, upright and strong-stemmed, these excellent landscape and garden performers double as a great backyard cut flower. Fast-blooming plants respond well to growth regulators applied for pot plant height and tighter umbels.

Orchid matches White Blush for habit.

Pink Magic flowers open white, then light pink, and mature to dark pink; optimal colour pattern results from high light and cool night temperatures. Matches White Blush for habit.

White Blush is white with attractive rosy-pink blush that varies with environmental conditions.

Mixture (Not pictured)

DIASCIA

Diascia barberae

Diamonte F1 Series

Height: 10 to 12 in./25 to 30 cm
Spread: 12 to 14 in./30 to 35 cm

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

Supplied as raw seed.

Can be grown easily and economically: "no pinch" plants branch better, grow fuller and more densely than cutting varieties. Well-suited to premium pack and pot sales. Delicate flowers blanket full, mounded plants in Spring and Autumn containers and landscapes.



Diamonte Coral Rose Diascia
All-America Selections Cool Season



Diamonte Lavender Pink Diascia



Emerald Falls Dichondra



Silver Falls Dichondra



Silverdust Dusty Miller

DICHONDRA 🌞🌱
Dichondra argentea

Silver Falls 🌱

Height: 2 to 3 in./5 to 7 cm in the ground
Spread/Length: 3 to 4 ft./90 cm to 1.2 m; up to 6 ft./1.8 m in areas with a longer growing season

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

A Fantastic Foliage® selection.
Supplied as raw seed.

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

DICHONDRA 🌞🌱
Dichondra repens

Emerald Falls

Height: 2 to 4 in./5 to 10 cm in the ground
Spread/Length: 3 ft./90 cm

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

A Fantastic Foliage® selection.
Supplied as multi-seed pellets.

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

DIGITALIS
See **Kieft Seed**, page 176.

DILL
See **Vegetables & Herbs**, page 149.

DUSTY MILLER 🌞🌱
Cineraria maritima/Senecio cineraria

Silverdust 🌱

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

Plug crop time: 4 to 5 weeks
Transplant to finish: 7 to 8 weeks

Supplied as raw and primed/pelleted seed.

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

ECHINACEA
'Cheyenne Spirit' and PowWow® Series see **Kieft Seed**, page 178.

ERAGROSTIS
Wind Dancer see **Grasses**, page 47.

ERYSIMUM
Citrona® Series see **Kieft Seed**, page 181.

EUSTOMA
See **Lisianthus**, page 63.

FESTUCA
Festina see **Grasses**, page 47.

FIBER OPTIC GRASS
See **Isolepis** in **Grasses**, page 47.

FRAGARIA
See **Strawberry**, page 154.

FUSEABLES®
See page 14.

F1 GAILLARDIA
Mesa Series see **Kieft Seed**, page 182.



New New Day Red Shades



New Day Clear Orange



New Day Yellow



New Day Pink Shades



New Day White



New Day Bronze Shades



New Day Mixture



New Day Strawberry Shortcake Mixture



New Day Bright Mixture



New Day Sunny Side Up Mixture



Daybreak Red Stripe
Fleuroselect Gold Medal



Daybreak Rose Stripe



Daybreak Tiger Mixture



Sunshine Mixture
Gazania

F1 GAZANIA 🌻
Gazania rigens

New Day® F1 Series 🌱🌱

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

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

Supplied as coated seed.

Compact, sturdy, high-quality plants are easy to produce and super-holdable at retail!

- New Day was bred to deliver larger flowers, shorter peduncles and beefier-looking plants.
- Drought-tolerant series performs beautifully in containers and baskets, and as a garden edging or groundcover.
- Well-suited to high-density pack programs.

Bright Mixture contains Bronze Shades, Yellow, Clear Orange, Pink Shades.

Strawberry Shortcake Mixture contains Pink Shades, Rose Stripe, White.

Sunny Side Up Mixture contains Clear Orange, Yellow, White.

Daybreak F1 Series

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

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

Supplied as coated seed.

Unique striped colour patterns make these daisy-shaped flowers real "shopper magnets." Drought-tolerant plants are durable and easy to grow, with excellent performance in beds, containers and hanging baskets, and as edgings or groundcovers.

Tiger Mixture includes Rose Stripe, Red Stripe, and variations on those colour patterns.

TETRAPLOID GAZANIA 🌻

Sunshine Mixture

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

Plug crop time: 4 to 5 weeks
Transplant to finish: 9 to 10 weeks

Supplied as raw seed.

Long-blooming mix includes cream, yellow, orange, pink and red shades, with some striped flowers. Upright plants are excellent for the bedding market as a landscape-performing garden plant. Later to bloom than Daybreak types, with larger flowers and robust growth.



Summer Showers Mixture Geranium



Summer Showers Burgundy Geranium



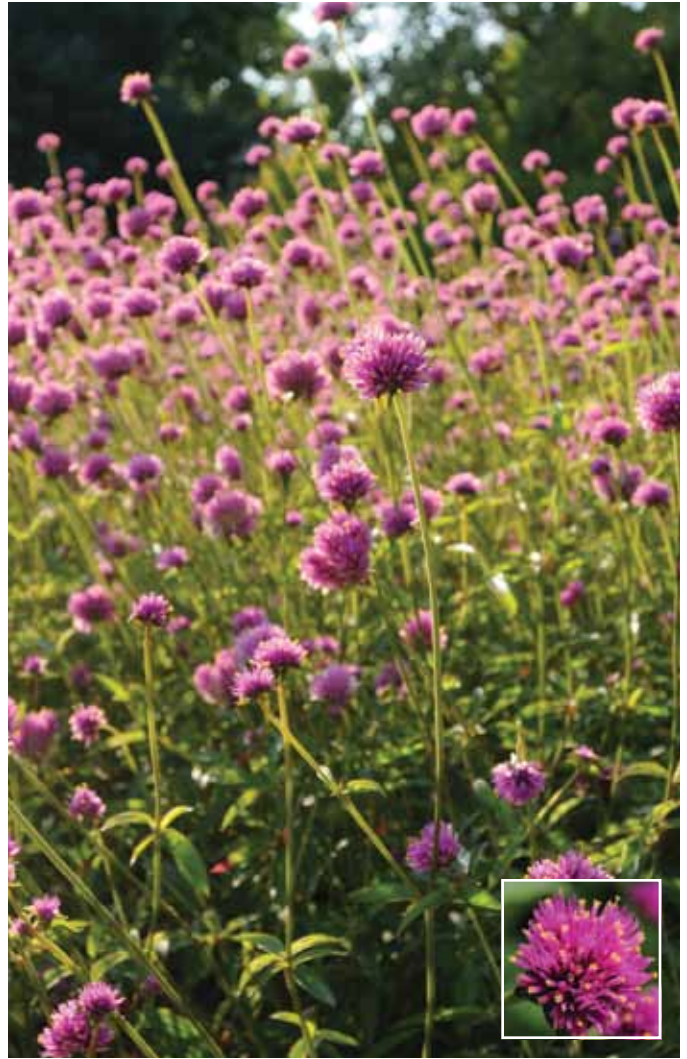
Summer Showers White Blush Geranium




Summer Showers Fuchsia Geranium



Paintbox Mixture Geranium



Fireworks Gomphrena

GERANIUM, IVY 
Pelargonium x peltatum

Summer Showers Series

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

Plug crop time: 4 to 5 weeks
Transplant to finish: 11 to 12 weeks

Supplied as raw seed.

Vigorous, upright habit. Big, flower heads and distinctive ivy leaves for beautiful baskets, tubs, window boxes, mixed containers. Series is well-matched on the bench and in the garden, with great performance in hot, humid climates.

Burgundy may include up to 8% lavender. Fuchsia has a compact habit similar to White Blush. White Blush has tidy, compact habit. Bright white florets with pink "whiskers" turn light pink at maturity.

GERANIUM, OPEN-POLLINATED 
Pelargonium x hortorum

Paintbox Mixture

Height: 18 in./45 cm
Spread: 12 to 14 in./30 to 35 cm

Supplied as scarified seed.

More compact than most O.P. varieties, with blooms in a blend of scarlet, salmon, pink, magenta, white and bicolor.

GOMPHRENA 
Gomphrena pulchella

Fireworks 

Height: 4 ft./1.2 m
Spread: 4 ft./1.2 m

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

Supplied as coated seed.

More blooms per plant and unique "scaffolding" habit make Fireworks sparkle at retail, then explode with colour in landscapes and containers.

- Vigorous, "tough as nails" plants are drought tolerant and low maintenance.
- Provides an attractive architectural element for landscapes; also excellent for mixed cut flower bouquets.
- Easy to produce on the bench, stays compact as a plug.
- Well-suited to high-margin gallon programs; suitable for field or garden cut flower production.

Mississippi Medallion Award

Complementary Colour

Grow and sell ColorGrass®, the broadest range of ornamental grasses from seed! These unique varieties accent landscapes and containers with height, colour and texture. Browse through our complete selection of grasses in the following pages. See how the varieties line up on pages 50-51.



Sirocco Anemanthele

ANEMANTHELE ☀️
Anemanthele lessoniana

Sirocco

Height: 12 to 14 in./30 to 35 cm
Spread: 22 to 24 in./55 to 60 cm

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

USDA Hardiness Zones: 7 to 10
(0 to 30 °F/-18 to -1°C minimum temperature)

Supplied as multi-seed pellets.

Adds movement and texture to landscapes, garden beds, mixed containers and hanging baskets. The only pink grass from seed on the market – colour turns to shades of copper and pink under cool conditions, natural sunlight and maturity.

CAREX ☀️
Carex buchananii

Red Rooster

Height: 20 to 30 in./50 to 75 cm
Spread: 12 in./30 cm

Plug crop time: 6 to 7 weeks
Transplant to finish: 8 to 9 weeks

USDA Hardiness Zones: 6 to 9
(-10 to 20°F/-23 to -7°C minimum temperature)

Supplied as tuned seed and multi-seed pellets.

Red-bronze grass has curled tips and upright habit.

CAREX ☀️
Carex comans
(Leatherleaf Sedge)

Amazon Mist (See p. 50)

Height: 6 to 12 in./15 to 30 cm
Spread: 14 in./35 cm

Plug crop time: 6 to 7 weeks
Transplant to finish: 9 to 10 weeks

USDA Hardiness Zones: 6 to 10
(-10 to 30°F/-23 to -1°C minimum temperature)

Supplied as tuned seed and multi-seed pellets.

Variegated light/medium green grass has twisting tips and an arching habit.

Bronco

Height: 6 to 12 in./15 to 30 cm
Spread: 14 in./35 cm

Plug crop time: 6 to 7 weeks
Transplant to finish: 8 to 9 weeks

USDA Hardiness Zones: 6 to 10
(-10 to 30°F/-23 to -1°C minimum temperature)

Supplied as tuned seed and as multi-seed pellets.

Bronze-brown variety has an arching habit.



Red Rooster Carex

Phoenix Green

Height: 20 to 24 in./50 to 60 cm
Spread: 16 to 20 in./40 to 50 cm

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

USDA Hardiness Zones: 6 to 10 (-10 to 30°F/-23 to -1°C minimum temperature)

Supplied as tuned seed and multi-seed pellets.

Sturdy, upright, narrow-leafed sedge has bright green foliage. Good heat tolerance and easy to care for. Use as an accent in landscapes and planters.

CORYNEPHORUS 🌞🌱
Corynephorus canescens
(Clubawn Grass)

Spiky Blue

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

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

USDA Hardiness Zones: 5 to 9 (-20 to 20°F/-29 to -7°C minimum temperature)

Supplied as multi-seed pellets.

Compact, spiky tufts are blue-green; matures to reddish green.



Bronco Carex



Phoenix Green Carex

ERAGROSTIS 🌞🌱

Eragrostis curvula (Love Grass)

Wind Dancer

Height: 3 to 4 ft./90 cm to 1.2 m
Spread: 3 to 4 ft./90 cm to 1.2 m

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

USDA Hardiness Zone: Hardy to at least Zone 6 (-10°F/-23°C minimum temperature)

Supplied as multi-seed pellets.

Drought-tolerant Native American grass has a graceful form with narrow, bluish green foliage. Tall plants produce airy flower plumes in July; plumes mature to a tan colour in August, then a lighter straw colour in the Autumn and continue to maintain interest throughout the Winter. Grows best in the landscape and large containers.



Spiky Blue Corynephorus



Live Wire Isolepis

FESTUCA 🌞🌱

Festuca cinerea (Festuca glauca)

Festina (See p. 51)

Height: 12 to 18 in./30 to 45 cm
Spread: 10 to 15 in./25 to 30 cm

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

USDA Hardiness Zones: 4 to 10 (-30 to 30°F/-34 to -1°C minimum temperature)

Supplied as multi-seed pellets.

Very cold-hardy variety produces dense, compact tufts of blue-green, with small, upright brown plumes from Summer to Autumn.



Wind Dancer Eragrostis

ISOLEPIS 🌞🌱

Isolepis cernua (Fiber Optic Grass)

Live Wire

Height: 6 to 8 in./15 to 20 cm
Spread: 18 to 20 in./25 to 50 cm

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

USDA Hardiness Zones: 8 to 10 (10 to 30°F/-12 to -1°C minimum temperature)

Supplied as multi-seed pellets.

Annual grasslike plant features a short mound of soft green leaves accented by flower spikes that look like "fiber optic" strands. Ideal for adding texture to mixed containers or marketing as an indoor lifestyle plant. Dense, mounded habit needs no pinching or PGRs, grows upright when young and drapes as it matures. Performs well in wet conditions. Prefers shade, but can handle sun if moisture level is maintained.



ColorGrass ornamental grasses bring patios and landscapes to life – see the whole range on pages 50-51.



Javelin Juncus

JUNCUS 🌞🌱
Juncus ensifolius

Starhead (See p. 50)

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

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

USDA Hardiness Zones: 4 to 10
(-30 to 30°F/-34 to 1°C minimum temperature)

Supplied as multi-seed pellets.

This compact variety displays green, broad-leafed foliage and long-lasting, dark green star inflorescences.

JUNCUS 🌞🌱
Juncus inflexus

Blue Arrows 🏹 (See p. 51)

Height: 36 in./90 cm
Spread: 12 in./30 cm

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

USDA Hardiness Zones: 5 to 9
(-20 to 20°F/-29 to 7°C minimum temperature)

Supplied as multi-seed pellets.

Stiff, upright, blue-green foliage is well-suited to annual bedding and mixed containers. Heat-tolerant in a wide range of environments. Can be grown as a pond plant, but drought-tolerant when grown in the ground. It also makes a great indoor lifestyle plant.

JUNCUS 🌞🌱
Juncus pallidus

Javelin

Height: 48 in./1.2 m
Spread: 18 to 20 in./45 to 50 cm

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

USDA Hardiness Zones: 8 to 10
(10 to 30°F/-12 to -1°C minimum temperature)

Supplied as multi-seed pellets.

Developed from unique genetics and available only from PanAmerican Seed, Javelin makes a dramatic "thriller" for mixed containers. Can grow up to 5 ft./ 1.5 m tall in gardens and landscapes. Performs well through a wide range of environmental stress. Can grow in standing water, but also handles heat and drought. Provides great Winter interest, maintaining upright, stiff foliage in a straw colour.

JUNCUS 🌞🌱
Juncus tenuis

Blue Dart (See p. 51)

Height: 14 to 16 in./35 to 40 cm
Spread: 10 to 12 in./25 to 30 cm

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

USDA Hardiness Zones: 4 to 10
(-30 to 30°F/-34 to -1°C minimum temperature)

Supplied as multi-seed pellets.

Linear blue foliage adds texture to small containers and in-ground plantings. With its strong vertical habit, Blue Dart is a faster, more reliable alternative to spike dracaena. Low-maintenance and adaptable to a wide range of conditions, including standing water and drought. Blue Dart makes an attractive indoor lifestyle or water plant. Great retail shelf life.

KOELERIA 🌞🌱
Koeleria glauca

Coolio (See p. 50)

Height: first season: 6 to 8 in./15 to 20 cm; later: 20 in./50 cm
Spread: 8 in./20 cm

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

USDA Hardiness Zones: 6 to 8
(-10 to 10° F/-23 to -12° C minimum temperature)

Supplied as tuned seed and multi-seed pellets.

This upright, blue-green grass is ideal for dry locations.



Flashlights Milium

LUZULA ☀️
Luzula nivea

Lucius

Height: 6 to 12 in./15 to 30 cm
Spread: 18 in./45 cm

Plug crop time: 4 to 7 weeks
Transplant to finish: 8 to 9 weeks

USDA Hardiness Zones: 4 to 9 (-30 to 20°F/-34 to 7°C minimum temperature)

Supplied as multi-seed pellets.

Upright and arching, evergreen grass displays flat, mid-green leaves that are fringed in white hairs. Produces small, white flowers in spiky inflorescences in Spring and early Summer. Lucius flourishes in damp, shady conditions.

LUZULA ☀️
Luzula sylvatica

Starmaker

Height: 12 to 18 in./30 to 45 cm
Spread: 10 in./25 cm

Plug crop time: 4 to 7 weeks
Transplant to finish: 9 to 10 weeks

USDA Hardiness Zones: 4 to 9 (-30 to 20°F/-34 to 7°C minimum temperature)

Supplied as tuned seed and multi-seed pellets.

The large, mounded annual grass has broad, glossy green leaves and produces brown flowers in early Spring.



Lucius Luzula



Starmaker Luzula

STIPA ☀️
Stipa tenuissima (Mexican Feather Grass)

Pony Tails

Height: 16 to 24 in./40 to 60 cm
Spread: 24 in./60 cm

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

USDA Hardiness Zones: 7 to 10 (0 to 40°F/-18 to 2°C minimum temperature)

Supplied as multi-seed pellets.

Upright grass produces fine, needlelike, green foliage, with silky green flowers in July that mature to golden blonde.

OTHER GRASSES

DESCHAMPSIA ☀️
Deschampsia elongata

Zephyr (Not pictured)

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

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

USDA Hardiness Zones: Hardy to Zone 7 (0°F/-18°C minimum temperature) in well-drained soil

Supplied as multi-seed pellets.

A great "touchable" addition to small mixed containers, also well-suited to indoor lifestyle plant programs. Quick and easy to grow, Zephyr can be grown and sold as a "mini" for even more sales opportunities.



Pony Tails Stipa

JUNCUS Fuseables® Single-Species Multi-Pellet Twisted Arrows and Twisted Dart see page 14.

USDA Hardiness Zones: 5 to 9 (-20 to 20°F/-29 to -7°C minimum temperature)

JUNCUS ☀️
Juncus effusus spiralis

Twister (Not pictured)

Height: 12 to 14 in./30 to 35 cm
Spread: 12 to 14 in./30 to 35 cm

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

USDA Hardiness Zones: 5 to 9 (-20 to 20°F/-29 to -7°C minimum temperature)

Supplied as multi-seed pellets.

Unusual juncus is economical and easy to grow - a fun addition to mixed containers. Shoppers love the small, curly green leaves of this upright plant. Can be grown as a "mini" for expanded sales opportunities. Also thrives in wet conditions, making it a useful pond plant.

More heights, more habits, more hues



Live Wire
Isolepis

Coolio
Koeleria

Amazon
Mist Carex

Bronco
Carex

Lucius
Luzula

Spiky Blue
Corynephorus

Starhead
Juncus

Flashlights
Milium

Sirocco
Anemanthele

Variety	Habit	Colour Group	Exposure	Height	Containers	Features
Live Wire Isolepis	Low	Green		6 to 8 in./ 15 to 20 cm	306 pack, 4 in./10 cm, 6 in./15 cm*, Gallon	Great for containers, and performs well in ponds and water gardens.
Coolio Koeleria	Low	Green		6 to 8 in./ 15 to 20 cm	4 in./10 cm, 6 in./15 cm*, Gallon	Upright, blue-green grass is ideal for dry locations. Grows to 20 in./50 cm after the first season.
Amazon Mist Carex	Low	Green		6 to 12 in./ 15 to 30 cm	4 in./10 cm, 6 in./15 cm*, Gallon	Variiegated light and medium green grass has twisting tips and an arching habit.
Bronco Carex	Low	Brown		6 to 12 in./ 15 to 30 cm	4 in./10 cm, 6 in./15 cm*, Gallon	Bronze-brown variety has an arching habit.
Lucius Luzula	Low	Green		6 to 12 in./ 15 to 30 cm	4 in./10 cm, 6 in./15 cm*, Gallon	Upright and arching evergreen grass has flat leaves fringed in white. Small, white flowers in spiky inflorescences in Spring/early Summer. Good in damp, shady areas.
Spiky Blue Corynephorus	Low	Green		6 to 12 in./ 15 to 30 cm	4 in./10 cm, 6 in./15 cm*, Gallon	Compact, spiky, blue-green tufts mature to reddish-green.
Starhead Juncus	Med.	Green		8 to 10 in./ 20 to 25 cm	4 in./10 cm, 6 in./15 cm*, Gallon	Compact plants produce long-lasting, dark green star inflorescences.
Flashlights Milium	Med.	Green		8 to 16 in./ 20 to 40 cm	306 pack, 4 in./10 cm, 6 in./15 cm*, Gallon	Great lime-green colour and texture for shady spots.
Sirocco Anemanthele	Med.	Green/ Brown		12 to 14 in./ 30 to 35 cm	4 in./10 cm, 6 in./15 cm*, Gallon	Varied shades of copper and pink depending on season/maturity.

Low: 2 to 8 in./5 to 20 cm; Med: 8 to 18 in./20 to 45 cm; Tall: 18 in./45 cm and taller
*3 plants per pot



Starmaker Luzula **Festina Festuca** **Blue Dart Juncus** **Pony Tails Stipa** **Phoenix Green Carex** **Red Rooster Carex** **Blue Arrows Juncus** **Wind Dancer Eragrostis** **Javelin Juncus**

Variety	Habit	Colour Group	Exposure	Height	Containers	Features
Starmaker Luzula	Med.	Green	☀️	12 to 18 in./ 30 to 45 cm	4 in./10 cm, 6 in./15 cm*, Gallon	Large, mounded annual grass has broad, glossy leaves, with brown flowers in early Spring.
Festina Festuca	Med.	Green	☀️ 🌙	12 to 18 in./ 30 to 45 cm	4 in./10 cm, 6 in./15 cm*, Gallon	Dense, compact, blue-green tufts have small, upright brown plumes from Summer to Autumn. Very cold hardy.
Blue Dart Juncus	Med.	Green	☀️ 🌙	14 to 16 in./ 35 to 40 cm	4 in./10 cm, 6 in./15 cm*, Gallon	Blue-green, strong, upright plant.
Pony Tails Stipa	Tall	Green	☀️	16 to 24 in./ 40 to 60 cm	4 in./10 cm, 6 in./15 cm*, Gallon	Upright grass has fine, needlelike foliage, with silky green flowers in July that mature to golden blonde.
Phoenix Green Carex	Tall	Green	☀️	20 to 24 in./ 50 to 60 cm	4 in./10 cm, 6 in./15 cm*, Gallon	Sturdy, upright and narrow-leaved. Good heat tolerance, easy-care. Use as an accent in landscapes, planters.
Red Rooster Carex	Tall	Red	☀️	20 to 30 in./ 50 to 75 cm	4 in./10 cm, 6 in./15 cm*, Gallon	Upright, red-bronze variety has curled tips.
Blue Arrows Juncus	Tall	Green	☀️	36 in./ 90 cm	4 in./10 cm, 6 in./15 cm*, Gallon	Blue-green, upright and heat tolerant.
Wind Dancer Eragrostis	Tall	Green	☀️	36 to 48 in./ 90 to 120 cm	Gallon	Gracefully shaped, drought-tolerant, Native American grass.
Javelin Juncus	Tall	Green	☀️	48 in./ 120 cm	4 in./10 cm, 6 in./15 cm*, Gallon	Rugged, upright plant can grow in standing water, but also handles heat/drought.

Find photos and information on all ColorGrass varieties on pages 46 to 49.

In addition to our ColorGrass collection, PanAmerican Seed offers four additional grass selections: Deschampsia Zephyr and Juncus Twister, see page 49. Fuseables® Twisted Arrows and Fuseables® Twisted Dart, see page 14.



Dakota Gold Helianthus U.S. PVP Number 200600009



Ballad Helianthus



Choco Sun Helianthus



Miss Sunshine Plant Breeder's Rights/Plant Variety Protection



Prado Gold Helianthus Fleuroselect Quality Award



Prado Red Shades Helianthus

HELIANIUM 🌻
Helianthemum

Dakota Gold 🌻

Height: 12 to 14 in./30 to 35 cm
Spread: 24 to 28 in./60 to 70 cm

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

Supplied as multi-seed pellets.

Easy-care variety performs from hot and dry to cool and rainy. Strong-growing and compact, mounded plants are covered with bright golden yellow blooms over fine-textured foliage. Quick crop time. Grow under long days for the best habit and vigour.

*North Texas Winner's Circle Award;
Japan Flower Selections Certificate of Merit as Best Flower Award.*

HELIANTHUS (SUNFLOWER) 🌻
Helianthus annuus

Ballad F1

Height: 24 to 30 in./60 to 75 cm
Spread: 6 to 8 in./15 to 20 cm

Plug crop time: 2 to 3 weeks
Transplant to finish: 8 to 9 weeks

Supplied as treated seed.

Excellent florist gift item or indoor lifestyle plant; also well-suited to warm landscape markets like Florida. Pollen-free, dwarf sunflower produces well-formed, 4 to 5-in./10 to 13-cm flowers. Flower at shorter height under short days; under long Summer days, plants are taller without growth regulators.

Choco Sun

Height: 10 to 12 in./25 to 30 cm
Spread: 12 to 14 in./30 to 35 cm

Plug crop time: 2 to 3 weeks
Transplant to finish: 8 to 9 weeks

Supplied as treated seed.

Very compact, well-branched plants set a large bloom on the central stalk, with several smaller flowers on side shoots. Excellent uniformity and earliness allow for easy scheduling and deliver a high yield of salable plants. Ideal for containers, window boxes and gardens.

Miss Sunshine F1

Height: 10 to 16 in./25 to 40 cm
Spread: 6 to 8 in./15 to 20 cm

Plug crop time: 2 to 3 weeks
Transplant to finish: 7 to 8 weeks

Supplied as treated seed.

Dwarf sunflower is easy and economical to produce, needing

fewer PGRs and flowering at a shorter height under short days. Pollen-free plants have 3 to 4-in./7 to 10-cm blooms with a fast flush of secondary flowers. Perfect for containers and mixed pots.

Prado Series

Height: 4 to 5.5 ft./1.2 to 1.65 m

Plug crop time: 3 to 4 weeks
Transplant to finish: 10 to 12 weeks

Supplied as coated seed.

Very early-flowering, multi-flowering cut flower. May harvest approximately 7 to 10 stems per plant when the main stem is pinched at the fifth set of true leaves. Flowers are 6 in./15 cm in diameter. Very low humidity or very high light levels can reduce stem length. Suitable for greenhouse, field or garden cut flower production.



Silver Mist Helichrysum



Chico Red Helichrysum *Fleuroselect Quality Award*



Splash Select Pink Hypoestes



Splash Select Red Hypoestes



Splash Select Rose Hypoestes



Splash Select White Hypoestes



Mahogany Splendor Hibiscus

HELICHRYSUM ☀️
Helichrysum bracteatum
(Strawflower)

Chico Red

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

Plug crop time: 4 to 5 weeks
Transplant to finish: 6 to 8 weeks

Supplied as raw seed.

Dwarf compact helichrysum for late Spring/early Summer baskets and containers. Blooms for about 6 to 8 weeks after placement in the garden, with larger, fuller flowers. Long-day bloomer likes 14-hour days. Grow cool and avoid ammonium fertilizer to keep foliage compact.

HELICHRYSUM ☀️
Helichrysum microphyllum
(*Plectostachys serphyllifolia*)

Silver Mist 🍃

Height: 6 to 8 in./15 to 20 cm
Spread: 18 to 24 in./45 to 60 cm

Plug crop time: 6 to 7 weeks
Transplant to finish: 8 to 9 weeks

A Fantastic Foliage® selection. Supplied as multi-seed pellets.

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

HIBISCUS ☀️
Hibiscus acetosella

Mahogany Splendor

Height: 3 to 5 ft./0.9 to 1.5 m
Spread: 24 to 30 in./60 to 75 cm

Plug crop time: 2 to 3 weeks
Transplant to finish: 5 to 6 weeks

USDA Hardiness Zones: 8 to 9
(10 to 30°F/12 to -1°C minimum temperature)

A Fantastic Foliage® selection. Supplied as raw seed.

Adds awesome colour and dramatic height to landscapes and containers!

- Deep burgundy, maple-shaped leaves with serrated edges.
- Drought and heat-resistant; combines well with other vigorous sun-loving plants in containers.
- Can be grown directly in the water as a pond plant.

NOTE: Foliage will have green/rust tones in the greenhouse, but matures to burgundy in full sun outdoors.

HIBISCUS ☀️
Hibiscus moscheutos

Luna F1 Series see **Kieft Seed**, page 189.

HYPOESTES 🍃
Hypoestes phyllostachya

Splash Select Series

Height: 10 to 18 in./25 to 45 cm
Spread: 12 to 14 in./30 to 35 cm

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

Supplied as raw seed.

The grower's choice for mass-market pot production, with excellent shipping tolerance and shelf life. Crop time can be reduced by planting multiple-sown young plants in each pot. Heat-tolerant and shade-tolerant hypoestes can be used as an indoor lifestyle plant or offered with other bedding annuals.

divine

Disease-Resistant Impatiens from Seed

Trust PanAmerican Seed's experience with breeding New Guinea Impatiens to bring you a grower-friendly shade alternative that's resistant to Impatiens Downy Mildew. Divine slots right into your seed bedding production to fill packs, containers and baskets with brilliant colour. Easy ordering, storage, scheduling and mechanization make Divine a must for your shade pack program. Its big, showy plants and all-season performance make it a favourite of retailers, gardeners and landscapers.

F1 NEW GUINEA IMPATIENS 
Impatiens hawkeri

Divine F1 Series

Height: 10 to 14 in./25 to 35 cm
Spread: 12 to 14 in./30 to 35 cm

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

Supplied as professional quality raw seed with an 85%+ Yield Potential Rating.

Establishing quickly in the landscape, Divine delivers great colour mix options, superior performance and high Impatiens Downy Mildew resistance - all from seed!

- 7 to 12-day flowering window across an expanded range of colours gives you great mix options and the ability to meet ship dates with bench runs.
- Supplied with high seed quality, easy-to-grow Divine delivers consistent, transplantable yields and a quick crop time from plugs.
- Divine fits in with existing mechanical transplanting and plug programs to deliver fast turns and high-density production in 306 premium packs and 4-in./10-cm pots.
- Uniform, well-branched, full plants filled with big blooms make lush hanging baskets and containers, provide strong garden performance and showy displays all season.
- Foliage ranges from green to bronze-green, providing a good contrast with the blooms.

Hot Mixture contains Scarlet Red, Cherry Red, Violet, Orange Bronze Leaf.

Mystic Mixture contains Lavender, Violet, Pink Pearl.

Red White Mixture contains Scarlet Red, White.

Salsa Mixture contains Orange Bronze Leaf, Scarlet Red, White.



New Blue Pearl



New Burgundy



Cherry Red



Lavender



Orange Green Leaf



Orange Bronze Leaf



Pink



New Scarlet Bronze Leaf



Scarlet Red



Violet



New White Blush



Mixture



Hot Mixture



Mystic Mixture



Red White Mixture



Salsa Mixture

Divine New Guineas are very grower-friendly!

Since it's a seed series, you can slot Divine right into your current seed bedding production without a hiccup. From scheduling to sowing to shipping, growing Divine really is easy.

I recently combined forces with Sonali Padhye, our Technical Services Manager, to create a quick, info-filled presentation that answers all the questions you may have: How is Divine different from standard impatiens? What's the crop time? Do I grow Divine differently?



Terry Howe
Global Product Manager

You can see for yourself just how simple your production will be in the "Growing Divine" Webinar - simply scan the QR tag here, or log on to panamseed.com/growingdivine 24/7. It's that easy!



Scan here or go to panamseed.com/growingdivine



impreza®

F1 IMPATIENS 
Impatiens walleriana

Impreza® Series

Height: 6 to 8 in./15 to 20 cm
Spread: 12 to 14 in./30 to 35 cm

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

Supplied as raw seed.

One of the most grower and retailer-friendly series available offers a streamlined range of top-selling colours...plus the longest shelf life of any impatiens!

- Reduced apical dominance, decreased internode length and good soil coverage produce easy-to-manage plants with less upward stretch and potentially fewer growth regulators needed – perfect for high-density programs.
- All colours finish in a tight, 5 to 7-day window for efficient shipping and flexibility, letting you adjust the colour assortment to meet seasonal/regional and market needs.
- Long shelf life extends sales and reduces dump.
- Good garden fill – plants stay full and look nice all season with less lodging.



Blue Pearl



Cherry Splash



Pink



Punch



Red



Rose



Salmon



Violet



White



Mixture



Intense Mixture



Passion Mixture



Red White Mixture



South Beach Mixture



Wedgewood Mixture

super elfin®



Super Elfin® Series

Height: 8 to 10 in./20 to 25 cm
Spread: 12 to 14 in./30 to 35 cm

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

Supplied as raw seed.

Bring in the best habit, vigour and timing uniformity across a broad colour range with Super Elfin XP.

- XP varieties deliver a tight, 5 to 7-day flowering window across all colours - core and novelty - so all plants ship at the same time to meet market dates.
- XP assures exceptionally uniform habit and plant vigour, consistency of early flowering and bigger blooms than the competition.
- The broad colour range lets you mix and match any Super Elfin XP variety to achieve the most uniform impatiens crop.

Scarlet XP

XP: Much More than Improved

Count on XP varieties for precise, programmable, predictable growing. All XP varieties deliver a tight bloom window, prolific flowering, exceptionally uniform habit and strong plant vigour.



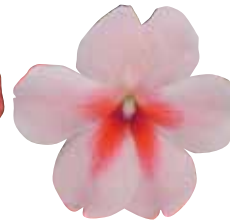
Apricot



Blue Pearl XP



Bright Orange



Cherry Splash XP



Coral XP



Lilac XP



Lipstick



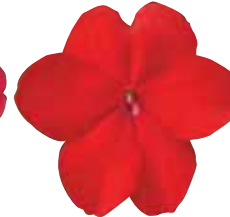
Melon XP



Pink XP



Punch XP



Red XP



Red Starburst XP
U.S. Utility Patent Number
5,986,188



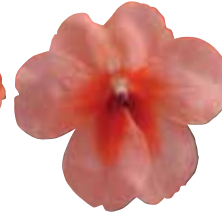
**New Rose XP
Improved**



Ruby



Salmon XP



Salmon Splash XP



Scarlet XP



Violet XP



Violet Starburst XP
U.S. Utility Patent Number
5,986,188



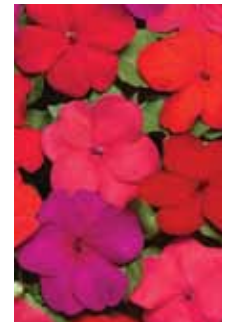
White XP



Cha-Cha Mixture



Clear Mixture XP



Hot Mixture XP



Mixture



Red White Mixture XP



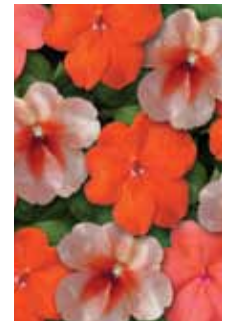
Mixture XP



Paradise Mixture



Seaside Mixture



Sedona Mixture



Baby Shower Mixture



Grower Select Mixture



Merlot Mixture



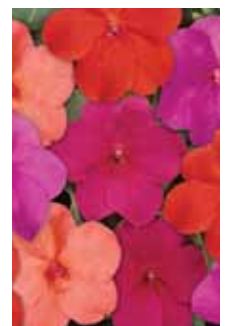
Mixture



Taboo Mixture



Tutti Frutti Mixture



Voodoo Too Mixture

Dazzler F1 Series

Height: 9 to 11 in./23 to 28 cm

Spread: 13 to 15 in./33 to 38 cm

Plug crop time: 4 to 5 weeks

Transplant to finish: 3 to 4 weeks

Supplied as Ball Controlled Growth seed  and coated seed.

Available in North America only.

The highest seed quality and extremely uniform growth with high yields makes Dazzler perfect for mechanized sowing. Healthy, uniform plants have controlled, manageable vigour; fill in quickly and are covered with 1.5-in./4-cm blooms. Well-matched across the series, all the colours come into bloom together and flower freely until frost. Well-suited to pack, 4-in./10-cm pot and basket programs.

Coral Splash has same timing and vigour as Salmon and White.



Gemini Blue



Gemini Pink



Tristar Deep Blue



Tristar Pink



Tristar Sky Blue



Tristar White



Gemini Blue

ISOTOMA (LAURENTIA) ☀️

Isotoma axillaris

Tristar Series

Height: 8 in./20 cm

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

Plug crop time: 4 to 5 weeks

Transplant to finish: 9 to 10 weeks

Supplied as pelleted seed.

Well-matched for earliness and uniformity, easy-to-grow Tristar works well in containers and gardens. Floriferous plants produce single blooms over finely cut foliage.

ISOTOMA (LAURENTIA) ☀️

Isotoma hybrida

Gemini F1 Series

Height: 8 in./20 cm

Spread: 10 to 14 in./ 25 to 35 cm

Plug crop time: 4 to 5 weeks

Transplant to finish: 9 to 10 weeks

Supplied as pelleted seed.

Vigorous, free-flowering series delivers excellent garden performance!

- Easy to grow, well-matched for earliness and uniformity.
- Well-suited to premium pack and 3.5 to 4-in. (9 to 10-cm) programs.
- Single star-shaped blooms over finely cut foliage.
- Beautiful in garden beds and keeps its controlled, mounded habit in containers.



Jealousy Leycesteria



Purple Lady Iresine



Enchantment Linaria

IRESINE 🌞
Iresine herbstii

Purple Lady

Height: 6 to 8 in./15 to 20 cm
Spread: 3 to 4 ft./90 cm to 1.2 m

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

A Fantastic Foliage® selection.
Supplied as raw seed.

Ideal for mixed containers, "solo" hanging baskets or planters, and as a groundcover. Also well-suited to indoor lifestyle plant programs. Low and prostrate, spreading plant fills in nicely and cascades as branches get longer and heavier. Purple Lady can withstand more sun in humid areas like Florida.

ISOLEPIS (FIBER OPTIC GRASS)
Live Wire see **Grasses**, page 47.

JUNCUS
See **Grasses**, page 48.

KOELERIA
Coolio see **Grasses**, page 48.

LAVENDER
See **Kieft Seed**, page 190.

LETTUCE & GREENS
See **SimplySalad**, page 153.

LEYCESTERIA 🌞🌞
Leycesteria formosa

Jealousy

Height: 36 to 60 in./90 cm to 1.5 m
Spread: 18 to 20 in./45 to 50 cm

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

USDA Hardiness Zones: Hardy to 7 (0°F/-18°C minimum temperature)

A Fantastic Foliage® selection.
Supplied as multi-seed pellets.

With its bright chartreuse foliage and bushy shape, Jealousy offers all-season interest - some blooms appear in July; cooler conditions bring maroon highlights to the foliage and flowers in the Summer; purple fruits appear in Autumn. Can be marketed as an annual, perennial or shrub.

LIMONIUM
See **Kieft Seed**, page 193.

LINARIA 🌞
Linaria hybrida

Enchantment F1

Height: 14 to 16 in./35 to 40 cm
Spread: 12 to 14 in./30 to 35 cm

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

Supplied as multi-seed pellets.

Fragrant blooms are produced continuously under cool conditions, for an excellent Winter bedding plant. Upright and well-branched. Good for Spring and Autumn premium pack and 4-in./10-cm pot sales.



Florida Pink



Sapphire Blue



Sapphire Double White



Sapphire Pink Rim



Sapphire Blue Chip



Sapphire White



Florida Blue



Florida Pink



Florida Silver



Florida Sky Blue



Forever Blue

All-America Selections Winner



Forever White

All-America Selections Winner

F₁ LISIANTHUS

Eustoma grandiflorum

F₁ POT & BEDDING LISIANTHUS

Plug crop time: 8 to 10 weeks

Transplant to finish: 12 to 16 weeks

Supplied as pelleted seed.

Florida F₁ Series

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

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

Our most heat-tolerant series for pot and garden use. Resists rosetting in both plug stage and after transplanting. Single-plant in 4.5-in. (11-cm) or multi-plant in larger container.

Forever F₁ Series

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

Spread: 6 to 8 in./20 to 25 cm

Extremely well-branched like Sapphire series, but bigger for 5-in. (12-cm) pots, larger multi-planted containers or garden use.

Sapphire F₁ Series

Height: 5 to 6 in./12 to 15 cm

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

Our most compact series for indoor plant use. Extremely well-branched. Single plug in 4-in. (10-cm) or multi plant in larger container.



1 Rose Rim



1 Deep Rose



1 Purple



1 White

DOUBLE-FLOWERED
CUT FLOWER LISIANTHUS

ABC F1 Series

Location: Greenhouse, shade house

Stem length: 36 to 45 in./90 cm to 1.1 m in the greenhouse

Plug crop time: 8 to 10 weeks

Transplant to finish: 10 to 18 weeks

Supplied as pelleted seed.

See our simplified Seasonality Number Guide on the following page.

Produces a high-quality finished crop year-round in a comprehensive colour range. Less rosetting in the plug and after transplant increases the number of saleable plants and stems, and reduces or eliminates the need for gibberellic acid (GA) spraying. Uniform vigour in plug and finish stages and faster finish time assure a short harvest window. Outstanding double flower form with high petal counts on strong stems with exceptional vase life.



1 Green



1 Misty Blue



1 Yellow



2 Purple



2 Blue



2 Blue Blush



2 Blue Rim



2 Green



2 Lavender



2 Misty Blue



2 Misty Pink



2 Rose



2 Yellow



3 Purple



3 Rose



3 White

Cut Flower Lisianthus Seasonality Number Guide for ABC F1 Series

Speed Guide	ABC varieties (Previous name in Parentheses)	Optimum Flowering Period			
		Winter (Cool Temp.)	Spring (Warm Temp.)	Summer (Hot Temp.)	Autumn (Warm Temp.)
Speed 1 Early Flowering	ABC 1 Rose Rim (1-1 Rose Rim)	X			
	ABC 1 Deep Rose (1-2 Deep Rose)	X	X		X - For Late Autumn
	ABC 1 Green (1-3 Green)	X	X		X - For Late Autumn
	ABC 1 Misty Blue (1-3 Misty Blue)	X	X		X - For Late Autumn
	ABC 1 Purple (1-3 Purple)	X	X		X - For Late Autumn
	ABC 1 White (1-3 White)	X	X		X - For Late Autumn
	ABC 1 Yellow (1-3 Yellow)	X	X		X - For Late Autumn
Speed 2 Mid Flowering	ABC 2 Purple (2-2 Purple)	X	X		X - For Late Autumn
	ABC 2 Blue (2-3 Blue)	X	X	X	X - For Mid to Late Autumn
	ABC 2 Blue Blush (2-3 Blue Blush)	X	X	X	X - For Mid to Late Autumn
	ABC 2 Blue Rim (2-3 Blue Rim)	X	X	X	X - For Mid to Late Autumn
	ABC 2 Green (2-3 Green)	X	X	X	X - For Mid to Late Autumn
	ABC 2 Lavender (2-3 Lavender)	X	X	X	X - For Mid to Late Autumn
	ABC 2 Misty Blue (2-3 Misty Blue)	X	X	X	X - For Mid to Late Autumn
	ABC 2 Misty Pink (2-3 Misty Pink)	X	X	X	X - For Mid to Late Autumn
	ABC 2 Rose (2-3 Rose)	X	X	X	X - For Mid to Late Autumn
	ABC 2 Yellow (2-4 Yellow)	X	X	X	X - For Mid to Late Autumn
Speed 3 Late Flowering	ABC 3 Purple (3-4 Purple)		X	X	X
	ABC 3 Rose (3-4 Rose)		X	X	X
	ABC 3 White (3-4 White)		X	X	X

Note - The number in variety name is the "Speed Guide". It tells whether the variety is faster or slower to flower (1 - Early, 2 - Mid, 3 - Late, 4 - Very late flowering). Lisianthus flowering speed and quality is influenced by Temperature, Day Length & Light Intensity during production. They will flower fastest under high temperatures, long days and high light intensities. Early-flowering varieties will flower relatively early and short with thin stems during periods of high temperatures, high light intensities and long day conditions; hence late flowering varieties will be best suited under these conditions.



2 Lilac

2 Buttercream Blush

2 Deep Rose

2 Purple



2 Rose Rim

2 Blue Rim

2 Green



2 White

2 Yellow

3 Blue Blush

3 Blue Rim

3 Peach

4 Deep Blue

4 Deep Rose

SINGLE-FLOWERED CUT FLOWER LISIANTHUS

Laguna F1 Series

Location: Greenhouse, shade house

Height: 33 to 45 in./85 to 115 cm

Plug crop time: 8 to 10 weeks

Transplant to finish: 10 to 18 weeks

Supplied as pelleted seed.

Produce a high-quality finished crop year-round in a comprehensive colour range. Varieties are selected for outstanding stem strength, stem caliper and flower quality. Uniform seedling vigour and less rosetting sensitivity in plug and finish stages increases the number of saleable plants and stems.

Cut Flower Lisianthus Seasonality Number Guide for Laguna F1 Series

Speed Guide	Laguna varieties (Previous name in parentheses)	Optimum Flowering Period			
		Winter (Cool Temp.)	Spring (Warm Temp.)	Summer (Hot Temp.)	Autumn (Warm Temp.)
Speed 2 Mid Flowering	Laguna 2 Lilac (2-2 Lilac)	X	X		X - For Late Autumn
	Laguna 2 Buttercream Blush (2-3 Buttercream Blush)	X	X	X	X - For Mid to Late Autumn
	Laguna 2 Deep Rose (2-3 Deep Rose)	X	X	X	X - For Mid to Late Autumn
	Laguna 2 Ivory (2-3 Ivory)	X	X	X	X - For Mid to Late Autumn
	Laguna 2 Rose Rim (2-3 Rose Rim)	X	X	X	X - For Mid to Late Autumn
	Laguna 2 Blue Rim (2-4 Blue Rim)	X	X	X	X - For Mid to Late Autumn
	Laguna 2 Green (2-4 Green)	X	X	X	X - For Mid to Late Autumn
	Laguna 2 Purple (2-4 Purple)	X	X	X	X - For Mid to Late Autumn
	Laguna 2 White (2-4 White)	X	X	X	X - For Mid to Late Autumn
	Laguna 2 Yellow (2-4 Yellow)	X	X	X	X - For Mid to Late Autumn
Speed 3 Late Flowering	Laguna 3 Blue Blush (3-4 Blue Blush)		X	X	X
	Laguna 3 Blue Rim (3-4 Blue Rim)		X	X	X
	Laguna 3 Peach (3-4 Peach)		X	X	X
Speed 4 Very Late Flowering	Laguna 4 Deep Blue (4-4 Deep Blue)		X - For Late Spring	X	X - For Early Autumn
	Laguna 4 Deep Rose (4-4 Deep Rose)		X - For Late Spring	X	X - For Early Autumn

Note - The number in variety name is the "Speed Guide". It tells whether the variety is faster or slower to flower (1 - Early, 2 - Mid, 3 - Late, 4 - Very late flowering). Lisianthus flowering speed and quality is influenced by Temperature, Day Length & Light Intensity during production. They will flower fastest under high temperatures, long days and high light intensities. Early-flowering varieties will flower relatively early and short with thin stems during periods of high temperatures, high light intensities and long day conditions; hence late flowering varieties will be best suited under these conditions.



Cambridge Blue



Crystal Palace



Mrs. Clibran



Rosamond



String of Pearls



Riviera Lilac
U.S. PVP Number 9300313



Riviera Sky Blue *Fleuroselect Quality Award*



Riviera Blue Eyes



Riviera Marine Blue



Riviera White
Fleuroselect Novelty



Riviera Midnight Blue
Fleuroselect Quality Award



Riviera Rose
Fleuroselect Quality Award



Riviera Blue Splash
Fleuroselect Novelty
U.S. PVP Number 9400206

LOBELIA 
Lobelia erinus

COMMODITY LOBELIAS

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

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

Cambridge Blue
Supplied as raw seed.

Cobalt Blue (Not pictured)
Supplied as raw seed and multi-seed pellets.

Crystal Palace
Supplied as raw seed and multi-seed pellets.

Mrs. Clibran
Supplied as raw seed.

Rapid Blue (Not pictured)
Supplied as raw seed and multi-seed pellets.

Rosamond
Supplied as raw seed.

String of Pearls
Supplied as raw seed.

White Lady (Not pictured)
Supplied as raw seed and multi-seed pellets.

COMPACT LOBELIAS

Riviera Series 

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

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

Supplied as raw seed and multi-seed pellets.

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



Regatta Marine Blue *Fleuroselect Novelty*



Regatta Lilac Splash U.S.
PVP Number 200600188



Regatta Lilac



Fountain Mixture



Regatta Midnight Blue



Regatta Sapphire
Fleuroselect Novelty



Fountain Lilac



Fountain Rose



Fountain Blue



Fountain Crimson



Regatta Sky Blue
Fleuroselect Novelty



Regatta White



Regatta Mixture



Regatta Rose
Fleuroselect Quality Award



Regatta Blue Splash
Fleuroselect Quality Award



Sapphire Pendula

TRAILING LOBELIAS

Fountain Series

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

Plug crop time: 4 to 5 weeks
Transplant to finish: 10 to 12 weeks

Supplied as raw seed.

Profusely blooming plants have a cascading habit, making Fountain well-suited to hanging baskets and containers.

Regatta Series

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

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

Supplied as raw seed and multi-seed pellets.

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

Sapphire Pendula

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

Plug crop time: 4 to 5 weeks
Transplant to finish: 10 to 12 weeks

Supplied as raw seed.

Cascading, bronze-leaved plants covered with white-eyed, sapphire blue flowers.

LOBULARIA

See **Alyssum**, page 21, 159.

LUZULA

Lucius, Starmaker
See **Grasses**, page 49.

LYCOPERSICUM

See **Tomato**, page 154.



Gold



Orange



Mixture



Yellow



Taishan Series

F₁ AFRICAN (AMERICAN) MARIGOLD 🌻

Tagetes erecta

Taishan® F₁ Series 📦

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

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

Plug crop time: 3 weeks

Transplant to finish: Spring 4 to 6 weeks, Summer 7 to 8 weeks

Supplied as de-tailed and coated seed.

Taishan is the better dwarf African marigold, with full plants and season-long shows of high-impact colour! Performance is so spectacular that the series was featured in landscapes at the 2008 Olympic Games in Beijing, China.

- With 20% shorter peduncles and 15% thicker stems than the market leader, Taishan stands tall with less stretch on the bench, and less breakage in shipping and at retail.
- Better branching with more aggressive side branching fills packs quickly and delivers a healthier look.
- Larger flowers hold their doubleness and shed water well.
- Big, tightly petaled blooms on super-strong stems look terrific at retail with less waste, better overhead watering tolerance and longer shelf life.



New Garland Orange



Marvel Gold



Marvel Orange



Marvel Yellow



Marvel Mixture



Vanilla



Gold Lady



Orange Lady



Primrose Lady



Lady Mixture



First Lady
All-America Selections

New Garland Orange

Height:
Short day 28 to 34 in./70 to 85 cm
Long day 48 to 60 in./1.2 to 1.5 m

Flower Size: 3.5 to 4.5 in./8 to 11 cm

Supplied as EZ-Flow seed.

The first garland-type marigold from PanAmerican Seed, Garland Orange delivers continuous flowering for big crops of deep orange blooms on long stems, perfect for ceremonial use. Easy to grow and adaptable to a wide range of soil conditions.

Lady F1 Series

Height: 20 in./50 cm
Spread: 10 in./25 cm

Plug crop time: 3 weeks
Transplant to finish: 8 to 9 weeks
Supplied as de-tailed seed.

This standard for taller African/American marigolds makes outstanding mass plantings. Under cooler conditions, Lady produces very strong stems and a neat, tidy habit. An abundance of fully double, 3-in./7-cm blooms are held well above the foliage.

Marvel F1 Series

Height: 18 in./45 cm
Spread: 10 in./25 cm

Plug crop time: 3 weeks
Transplant to finish: 7 to 8 weeks
Supplied as de-tailed seed.

Full, rounded, 3.75-in./9-cm blooms are packed with petals, ensuring that plants stand up to *Botrytis* and perform superbly outdoors. Extra-sturdy stems won't break in shipping or during poor weather conditions. Initiates flowering faster under short days, blooming as soon as 60 days from sowing.

Vanilla F1

Height: 16 in./40 cm
Spread: 10 in./25 cm

Plug crop time: 3 weeks
Transplant to finish: 7 to 8 weeks

Supplied as de-tailed and coated seed.

Fully double heads have tight centres that shed water and avoid turning brown longer. Each double, creamy white bloom is 2.5 to 3 in./6 to 7 cm across atop darker green foliage. Plants flower to match Marvel series timing - grow both to offer a full colour range. Well-suited for use in beds, borders and large mixed containers.



Mixture



Bee



Deep Orange
Fleuroselect Novelty



Gold



Harmony



Orange



Yellow

FRENCH MARIGOLD

Tagetes patula

FRENCH DWARF CRESTED MARIGOLD

Bonanza Series

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

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

Plug crop time: 3 weeks

Transplant to finish: 3 to 4 weeks

Supplied as de-tailed and coated seed.

The market leader in French marigolds, the Bonanza series delivers peak performance in packs!

- Delivers earliness, large flowers, uniformity and superior performance under a wide range of conditions.
- Double crested flowers are the largest of any in this type - 2 to 2.5 in./5 to 6 cm across - in a wide range of pure, intense colours.
- Bonanza is faster to flower than other crested French marigolds, with a tight flowering window.
- Plants are excellent garden performers under a wide range of conditions.



Flame



Golden Boy



Harmony Boy



Orange Boy
Fleuroselect Gold Medal



Spry Boy



Yellow Boy



Boy O' Boy Mixture



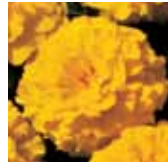
Honeycomb
Fleuroselect Gold Medal



Orange Jacket
Fleuroselect Gold Medal



Janie Mixture



Janie Bright Yellow



Janie Flame



Janie Harmony



Janie Spry



Janie Deep Orange
U.S. PVP Number
9200025



Janie Gold



Janie Primrose
U.S. PVP Number
9200027



Janie Tangerine

Boy Series

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

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

Supplied as raw, de-tailed and coated seed.

Boy varieties provide excellent pot and garden performance. Bright blooms are 1.5 in./4 cm across, on very free-flowering plants. Very uniform for habit and flowering time.

Honeycomb

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

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

Supplied as raw and de-tailed seed.

Vigorous, very large-flowered plants topped with fully double, crested, 2.5-in./6-cm flowers - each maroon petal has a gold border.

Janie Series

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

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

Supplied as de-tailed and coated seed.

Good choice for warmer southern markets or for late-season sales in the North - very heat-tolerant plants show good garden vigour in warmer temperatures. Early and uniform in the pack with excellent shelf life. Compact plants hold crested flowers displayed nicely above the foliage.

Orange Jacket

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

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

Supplied as raw seed.

With more vigour than the Bonanza series, Orange Jacket excels as an outdoor performer in cool conditions. Flowers are 1.5-in./4-cm diameter.



Bee



Bolero



Flame



Gold



Orange



Red



Tangerine



Yellow



Outback Mixture

FRENCH DWARF ANEMONE MARIGOLDS

Durango® Series

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

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

Plug crop time: 3 weeks

Transplant to finish: 4 to 5 weeks

Supplied as de-tailed and coated seed.

Early-blooming Durango sets the highest standard for anemone-type marigolds: super-strong and super-shippable!

- Delivers excellent branching for more blooms and strong stems.
- Produces uniformly shaped, extra-large, 2 to 2.5-in./5 to 5.5-cm flowers in a well-matched, 5 to 7-day flowering window across all colours.
- Good choice for both packs and pots, with outstanding uniformity from bench to garden.
- Bushy, vigorous plants are ideal for early Spring sales.

Outback Mixture contains Bolero, Red, Tangerine, Yellow. *2004 Flower of the Year in Australia.*



Mixture



Golden Gate Marigold All-America Selections



Hot Cakes Pink, Purple and White Matthiola



Orange Gate Marigold
Fleuroselect Quality Award



Yellow Gate Marigold
Fleuroselect Quality Award



Red Marietta Marigold



Hot Cakes Hot Rose Matthiola



Hot Cakes Mixture Matthiola

FRENCH FULLY DOUBLE MARIGOLDS

Gate Series

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

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

Supplied as raw and de-tailed seed.

A good choice for commercial landscapes, featuring round, fully double, 3-in./7-cm flowers that look like small African marigolds. Recommended as Summer pot annuals.

Garden Gate Mixture (Not pictured)

FRENCH DWARF SINGLE MARIGOLDS

Red Marietta

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

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

Supplied as raw and de-tailed seed.

Excellent in packs, producing beautiful single, 2-in./5-cm flowers.

MATRICARIA Vegmo Series see **Kieft Seed**, page 195.

MATTHIOLA (STOCK) ☀

Matthiola incana

SELECTABLE BEDDING MATTHIOLA

Hot Cakes Series ⚡

Height: 10 to 16 in./25 to 40 cm
Spread: 6 to 8 in./15 to 20 cm

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

Supplied as raw seed.

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



Sugar & Spice Mixture



Vintage Copper



Vintage Lavender



Vintage Burgundy



Vintage Lilac



Vintage Peach



Vintage Red



Sugar & Spice White



Vintage Rose



Vintage White



Vintage Yellow

BEDDING MATTHIOLA

Sugar & Spice Series

Height: 12 in./30 cm

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

Plug crop time: 4 weeks

Transplant to finish: 7 to 9 weeks

Supplied as raw seed.

Non-selectable bedding series produces 50 to 60% double flowers on short, well-branched plants. Long-flowering and highly fragrant. Great outdoor performance in pots and borders in cool conditions.

White is over 90% double-flowering.

Vintage Series

Height: 15 to 20 in./38 to 50 cm

Spread: 12 to 14 in./30 to 35 cm

Plug crop time: 4 weeks

Transplant to finish: 7 to 8 weeks

Supplied as raw seed.

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

Antique Mixture (Not pictured) contains Copper, Peach, Yellow.

Mixture (Not pictured)



Katz Bright Rose



Katz Cherry Blossom



Katz Light Lavender



Katz Pink



Katz White



Katz Yellow

EXTRA EARLY-FLOWERING TUNNEL OR FIELD-GROWN CUT FLOWER MATTHIOLA

Katz Series

Location: Grow in tunnels rather than outside; can withstand heat well
Stem length: 32 in./80 cm

Plug crop time: 4 weeks

Transplant to finish: 8 to 13 weeks

Supplied as raw seed.

Delivers a shorter crop time, uniformity in flowering for stem length and timing between colours, and better heat tolerance than European or traditional field types. Can be grown earlier and later in the season, and even year-round in some climates, allowing for Christmas through Valentine's Day flowering. About 55 to 60% double-flowering, with some selectability possible.

NOTE: 5% of PanAmerican Seed net seed sales of this product will be donated to PanCan for Pancreatic Cancer research in honour of Philip Katz, former PanAmerican Seed Product Manager.

Cherry Blossom ASCFG 2013 Cut Flower of the Year



Katz Crimson



Katz Lavender Blue



Katz Apricot



Katz Blue



Katz Purple



Katz Ruby



Avalanche Column Stock



Malmaison Pink Column Stock



Miracle Mid-Blue Column Stock

TRADITIONAL FIELD-GROWN CUT FLOWER MATTHIOLA

Column Stock

Height: 24 to 30 in./60 to 75 cm
Plug crop time: N/A

Transplant to finish: 20 to 22 from sowing

Supplied as raw seed.

The Column varieties are single-stemmed florist types, and have large, attractive double flowers, closely spaced on the stems. Florists and consumers alike appreciate the dense, showy spikes of scented flowers.

Avalanche is a mid-season white.

Malmaison Pink has unique pastel salmon pink flowers closely spaced on light gray-leaved stems.

Miracle Mid-Blue is darker than lavender and a popular colour in floral displays. Timing is similar to Apricot and Miracle yellow.

(Not pictured)

American Beauty Select is a unique carmine red; fairly early to flower.

Appleblossom is a very light blush pink; unique colour.

Apricot

Ball Pink #22 is a silvery pink.

Lilac Lavender Deep is very early to flower; similar in colour to Lavender.

Miracle Crimson

Miracle Gold has deeper colour than Miracle Yellow.

Miracle Yellow is faster to flower than Gold.

Pacific Blue is very early to flower; colour is similar to Mid-Blue.

Pacific Crimson is very early to flower; colour is same as Crimson.

Pacific Pink has bright deep pink flower colour, on a short, thick-stemmed plant.

Purple Heart is a vibrant dark purple. Reselection of a favourite PanAmerican Seed variety. Flowers about 1 week after White.

Rose Pink #14 is deepest rose pink.

Ruby #8 is deepest red.

Sweetheart Pink is appleblossom pink.

White Goddess is slightly later to flower and thicker-stemmed than Avalanche.

Mixture

NORTHERN GREENHOUSE SELECTABLE CUT FLOWER MATTHIOLA

Aida Series (Spring-flowering, Group 2), **Figaro Series** (Winter-flowering, Group 1), **Carmen Series** (Summer-flowering, Group 3), **Lucinda Series** (Spring-flowering, Group 2), **Opera Series**

See **Kieft Seed**, page 196.



Jade Princess



Jester

MILLET, ORNAMENTAL

Pennisetum glaucum

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

Jade Princess F1

Height: 24 to 30 in./60 to 75 cm

Spread: 18 to 24 in./45 to 60 cm

Plug crop time: 2 to 3 weeks

Transplant to finish: 4 to 5 weeks (green)

Supplied as raw seed.

Intense lime green leaves; controlled, mounded shape; and pollenless heads. Jade Princess offers an economical option to growers - seed can be direct-sown into finish containers, plants are well-suited to pot sizes up to gallons, and the crop finishes fast. Compact plants ship well. Note: Jade Princess requires warmer temperatures than other millets to perform well.

Jester F1

Height: 3 to 4 ft./90 cm to 1.2 m

Spread: 10 to 14 in./25 to 35 cm

Plug crop time: 2 to 3 weeks

Transplant to finish: 4 to 5 weeks (green)

Supplied as raw seed.

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



Purple Baron

Purple Baron F1

Height: 2.5 to 3.5 ft./75 cm to 1.1 m
Spread: 10 to 14 in./25 to 35 cm

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

Supplied as raw seed.

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



Purple Majesty *All-America Selections Gold Medal*

Purple Majesty F1

Height: 4 to 5 ft./1.2 to 1.5 m
Spread: 8 to 12 in./20 to 30 cm

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

Supplied as raw seed.

Deep purple foliage, stems and cattail-like flower plumes, each 12 to 14 in./30 to 35 cm long. Young plants are green. Stem and mid-rib of the foliage first turn purple after about 8 leaves have developed. Foliage turns dark purple when plants are moved from the greenhouse outside into full sun. Also makes a good cut flower.

MULTI-PELLETS

Fuseables® Single-Species and Multi-Species Multi-Pellets see page 14.

SimplyHerbs, SimplySalad™ see page 152.

MYOSOTIS (FORGET-ME-NOT)

Mon Amie Blue see **Kieft Seed**, page 198.



New Mixture Improved



New Blue Improved



New Deep Pink



Lavender Pink



New Pink



White

NEMESIA

Nemesia foetans

Poetry F1 Series

Height: 12 to 14 in./30 to 35 cm

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

Plug crop time: 4 weeks

Transplant to finish: 5 to 7 weeks

Supplied as single pellets.

Three new colours are as bright as their vegetative counterparts! You also get improved series uniformity, plus more reliable delivery and seed quality.

- "Grower-friendly" varieties for premium bedding sales.
- Branches very well without pinching to produce bushy plants which fill out fast and full.
- Ideal for Spring and Autumn premium pack and 4-in./10-cm pot programs.
- Winter flowering will occur in milder temperatures; will also flower lightly in warmer conditions in partial shade.

NOTE: It is recommended to sow 4 pellets per cell for uniform emergence and full trays.



Whirlybird Mixture Nasturtium



Sundrops Mixture Nemesia *Fleuroselect Gold Medal*



Purple Robe Nierembergia



White Robe Nierembergia

NASTURTIIUM 🌻
Tropaeolum majus

Whirlybird Mixture

Height: 12 in./30 cm
Spread: 12 in./30 cm

Sow to finish: 8 to 9 weeks

Supplied as raw seed.

Large, spurless, semi-double, edible flowers face upwards over the solid green leaves. Works well in containers.

NEMESIA 🌻
Nemesia strumosa

Sundrops Mixture

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

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

Supplied as cleaned seed.

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

NEW GUINEA IMPATIENS
See page 54.

NICOTIANA 🌻
Nicotiana glauca

Nicki Series

Height: 16 to 18 in./40 to 45 cm
Spread: 10 to 12 in./25 to 30 cm

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

Supplied as raw seed.

Rugged and durable, this vigorous series delivers a free-flowering habit, uniform height and excellent weather tolerance. Plants look good in the garden or commercial landscape from early Summer until frost. Best-suited to pot and large container production.

Lime (not pictured)
Rose (not pictured)
White (not pictured)

NIEREMBERGIA 🌻
Nierembergia coerulea

Robe Series

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

Plug crop time: 4 weeks
Transplant to finish: Green packs 3 weeks, pots 8 to 10 weeks

Supplied as raw seed.

Hardy, early-blooming plants produce single, 1-in. (2.5-cm) flowers. Uniform, floriferous plants have strong garden vigour and long-flowering season in beds, borders and hanging baskets. Works well in garden beds and baskets.

akila®

"Sow Easy, So Awesome"

Seed-grown Akila matches (or surpasses!) any vegetative series for easy, no-pinch production; terrific uniformity and top-selling colours. Akila's excellent branching gives you better pot fill and great bench-to-garden performance that keeps customers coming back.





New White Improved



Lavender Shades



Mixture



Purple



White Purple Eye

OSTEOSPERMUM 🌻
Osteospermum ecklonis

Akila® Series

Height: 16 to 20 in./40 to 50 cm
Spread: 16 to 20 in./40 to 50 cm

Plug crop time: 4 to 5 weeks
Transplant to finish: Spring 10 to 12 weeks, Autumn 7 to 9 weeks

Supplied as raw seed.

Akila comes with 5% higher germination than the competition for higher yields – the best seed-grown osteos for both habit and seed quality!

- Akila gives you a series of bench-run uniform colours for ease of growing.
- The most compact seed series available.
- Well-suited to mechanized production and high-density programs.
- Plants branch without pinching; all colours flower within a 7 to 10-day window, no vernalization needed.
- Full, well-branched plants are drought tolerant once established.

New Akila White Improved has cleaner white colour.



spring matrix

F1 PANSY 
Viola x wittrockiana

F1 LARGE-FLOWERED PANSY

Spring Matrix Series

Height: 8 in./20 cm

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

Flower size: 3 in./7 cm

Plug crop time: 5 weeks

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

Supplied as primed and raw seed.

Spring Matrix is your best option for shorter days and cool growing.

- Plants look better, last longer and have the tightest flowering window for less dump.
- Superior branching without stretching puts more flowers on every plant.
- Flowers optimized for production in Winter/Spring to improve presentation.
- Grower tested and selected in the northern U.S. and Europe.

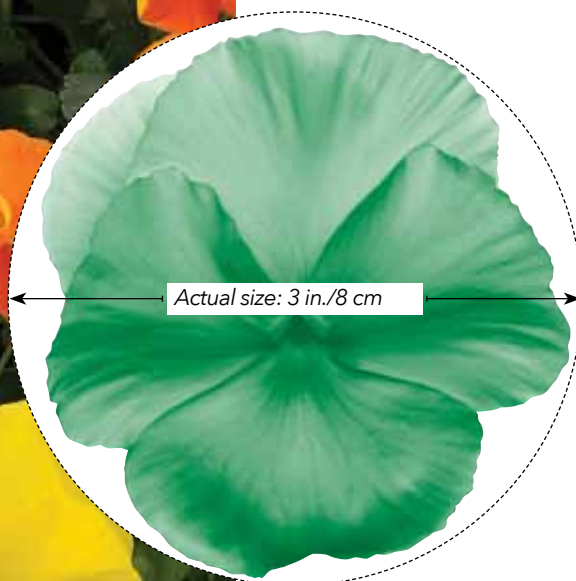
New Blue Wing displays stronger blue colour under cool temperatures.

Ocean can contain a small percentage of white with blotch.

Daffodil Mixture contains Deep Orange, Lemon, Yellow and White.

Pastel Mixture contains Pink Shades, Lemon, Blue.

New Tricolor Mixture contains Blue, Lemon, Purple.



spring matrix

We have your Matrix solution... wherever you grow, whenever you grow.

When we started breeding pansies, we selected for important grower traits; we made sure all the varieties flowered at the same time and grew with the same habit. But pansies behave differently in short days and cool season growing, so we bred and selected Spring Matrix in Northern Europe and North America to be the most uniform for flowering and habit. Spring Matrix is the best choice when growing under cool nights and short days, the traditional Spring pansy market.



Peter Stefany
Plant Breeder

Use Spring Matrix in cool season, short day growing conditions - or when you need a large bloom that maintains good presentation under cold, dark, wet winter production. If you're using another pansy series and you're not happy with the uniformity or plant habit, try Spring Matrix. It's the simpler solution.



White



Lemon



Yellow



Deep Orange



Rose



Scarlet



Purple



Blue



White Blotch



Red Blotch



Blue Blotch



Yellow Blotch



Golden Yellow Blotch



New Rose Blotch



Ocean



Pink Shades



Sangria



Midnight Glow



New Blue Wing



Mixture



Blotch Mixture



New Tricolor Mixture



Pastel Mixture



Clear Mixture



Daffodil Mixture



F1 EXTRA-LARGE-FLOWERED
PANSY

Matrix® Series

Height: 8 in./20 cm

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

Flower size: 3.5 in./9 cm

Plug crop time: 5 weeks

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

Supplied as primed and raw seed.

Matrix is your best option for longer days and warmer growing.

- Less handling, less waste and exceptional holding power increase your profitability.
- 7-day bloom window across all colours in Autumn production makes scheduling and growing easy.

Blue Frost can contain blue blotch and white blotch shades depending on environment.

Matrix mixtures

Autumn Blaze Mixture contains Red Blotch, Red Wing, Yellow, Yellow Blotch.

Citrus Mixture contains Orange, Primrose, White, Yellow.

Coastal Sunrise Mixture contains Ocean, Rose Blotch, Sunrise.

Halloween Mixture contains Orange, Purple.

Harvest Mixture contains Yellow, Purple, Orange.

Ocean Breeze Mixture contains Blue Frost, Deep Blue Blotch, Ocean, White Blotch.

Raspberry Sundae Mixture contains Rose Wing, Rose, White Blotch.

Sunfire Mixture contains Sunrise, Yellow Blotch, Rose Blotch.

Tricolor Mixture contains Lemon True Blue, Purple.

Matrix Gemstone mixtures

Amber Mixture contains Orange, Yellow, Lemon.

Amethyst Mixture contains Purple, Rose Blotch, Ocean, Deep Blue Blotch.

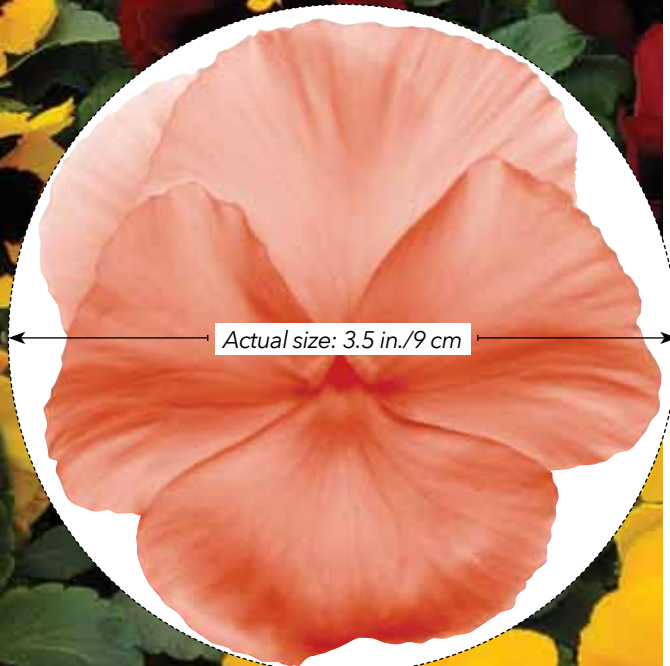
Jewels Mixture contains Lemon, Light Blue, True Blue, Orange, Purple, Rose, Yellow.

Opal Mixture contains Light Blue, Primrose, Rose, Lemon.

Ruby Mixture contains Rose, Rose Wing, Rose Blotch.

Tanzanite Mixture contains Ocean, White Blotch, Purple.

Topaz and Garnet Mixture contains Orange, Red Blotch, Yellow.



Matrix makes your life easier!

The stresses of Summer production for Autumn sales require a different breed of pansy. Matrix was bred and selected in the Southern U.S., Europe and Japan under long days and high night temperatures. The extra-large flowers hold up to the heat and PGR stress in Summer/Autumn production. All Matrix varieties flower and grow the same way, making it easier to send high-quality product to market.

When to Use Matrix:

- In warm temperature, long day growing conditions.
- When you need the largest flower to stand up to heat and PGR stress.
- If you are using other pansy series and are not happy with the uniformity or plant habit. Matrix makes your life easier.



Scan here for Matrix video or go to youtube.com/pasvideotv



White



Primrose



Lemon



Yellow



Orange



Rose



Purple



Light Blue



True Blue



White Blotch



New Yellow Blotch Improved



Red Wing



Rose Blotch



Red Blotch



Blue Blotch



Deep Blue Blotch



Ocean



New Lavender Shades



Sangria



Sunrise



Rose Wing



Morpheus



Blue Frost



Mixture



Citrus Mixture



Autumn Blaze Mixture



Blotch Mixture



Clear Mixture



Coastal Sunrise Mixture



Halloween Mixture



Harvest Mixture



Ocean Breeze Mixture



Raspberry Sundae Mixture



Sunfire Mixture



Tricolor Mixture



Amber Mixture



Amethyst Mixture



Jewels Mixture



Opal Mixture



Tanzanite Mixture



Ruby Mixture



Topaz and Garnet Mixture



Promise Pure White



Promise White Blotch



Promise Yellow Blotch



Promise Yellow Red Wing



Promise Marina



Promise Pure Lilac Shades



Promise Beaconsfield



Promise Blue Blotch



Promise Red Blotch



Promise Sunset



Promise True Blue



Promise Mixture



Promise Antique Shades



Promise Rose Shades



Rain Blue & Purple Viola All-America Selections Winner



Baby Bingo Midnight



Baby Bingo Denim



Halloween II



Rain Frosty Pansy



Baby Bingo Lavender Blue



Baby Bingo Sky Blue



Rally Lilac Cap
Fluoreselect Quality Award



Rain Purple Pansy

F1 LARGE-FLOWERED PANSIES

Promise Series

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

Plug crop time: 5 weeks
Transplant to finish: Spring 6 to 7 weeks, Autumn 4 to 5 weeks

Supplied as raw and primed seed.

Promise delivers a wide range of classic and contemporary colours, as well as excellent landscape vigour and floriferousness over a long bloom season. This early and large-flowered series is well-suited to Spring programs.

F1 MEDIUM-FLOWERED PANSIES

Baby Bingo Series

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

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

Supplied as raw and primed seed.

Well-branched, free-flowering, medium-flowered series has uniquely coloured varieties that are favourites with growers and consumers.

Halloween II

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

Plug crop time: 5 weeks
Transplant to finish: Autumn 2 to 3 weeks

Supplied as raw and primed seed.

Mid-size blooms are a unique uniform pure black colour, on strong, short peduncles. Early, well-branched and floriferous plants overwinter with ease. Great for Autumn pots and packs.

Rally Lilac Cap

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

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

Supplied as raw and primed seed.

Great novelty colour on compact, very free-flowering plants that overwinter well.

F1 PANSY AND VIOLA COLLECTION

Viola x wittrockiana and *Viola cornuta*

Rain Series

Height: 10 to 16 in./25 to 40 cm
Spread: 10 to 16 in./25 to 40 cm

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

Supplied as raw and primed seed.

Collection of mounded pansies and violas produces a good, quick groundcover. Performs well in Autumn, surviving Winter temperatures with proper care, emerging again in Spring for a fresh show of colour. Vigorous plants produce 1.5-in/4-cm blooms.

F1 MULTIFLORA PANSIES

Panola® Series

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

Plug crop time: 5 weeks

Transplant to finish: Spring 4 to 5 weeks, Autumn 3 to 4 weeks

Supplied as raw and primed seed.

Panola XP genetics deliver a tight 5 to 7-day flowering window, very uniform habit and shorter peduncles across a broad array of colours.

- Mix and match to achieve the most uniform pansy crop based on customer needs, and create custom mixtures from a landscaper-friendly selection of clear colours.
- Both XP and standard colours outperform standard medium-flowered varieties in all kinds of conditions.
- The exceptional overwintering ability makes Panola the best choice for overwintering guarantee pansy programs.
- Free-flowering, well-branched and compact, the early-blooming plants maintain their garden height with less stretch in warm climates.
- Plants produce an abundance of blooms for good flower show in the landscape.

Panola XP mixtures

Autumn Blaze Mixture XP contains Scarlet, Sunburst, Yellow.

Baby Boy Mixture XP contains Marina, True Blue, White.

Blackberry Sundae Mixture XP Purple Face, Purple, White

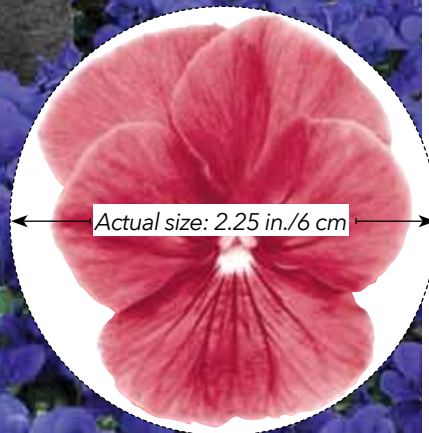
Citrus Mixture XP contains Deep Orange, White, Yellow.

Halloween Mixture XP contains Orange and black.

Jewels 'N Jazz Mixture XP contains Deep Orange, Purple, Scarlet, True Blue, Yellow.

Panola Standard mixtures

Silhouette Mixture contains Primrose and Pink Shades plus shades of lilac.



XP: Much More than Improved

Count on XP varieties for precise, programmable, predictable growing. All XP varieties deliver a tight bloom window, prolific flowering, exceptionally uniform habit and strong plant vigour.

True Blue XP

Panola XP varieties



White XP



Yellow XP



Deep Orange XP



Scarlet XP



True Blue XP



Purple XP



White Blotch XP



**New Marina
XP Improved**



Beaconsfield XP



Purple Face XP



**Deep Blue
Blotch XP**



Sunburst XP



Fire XP



Rose Picotee XP



**New Yellow Blotch
XP Improved**



**Autumn Blaze
Mixture XP**



Baby Boy Mixture XP



**Blackberry Sundae
Mixture XP**



Blotch Mixture XP



Citrus Mixture XP



Clear Mixture XP

Panola Standard varieties



Primrose



Yellow & Purple



Lavender Blotch



Red Blotch



Halloween Mixture XP



**Jewels 'N Jazz
Mixture XP**



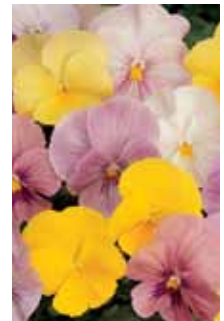
Mixture XP



Pink Shades



Lilac Shades



Silhouette Mixture



Frizzle Sizzle Mixture



Frizzle Sizzle Blue



Frizzle Sizzle Yellow



Frizzle Sizzle Burgundy



Frizzle Sizzle Orange



Fizzy Grape



Fizzy Lemonberry



Frizzle Sizzle Raspberry



Frizzle Sizzle Yellow-Blue Swirl

F1 RUFFLED PANSIES

Fizzy Series

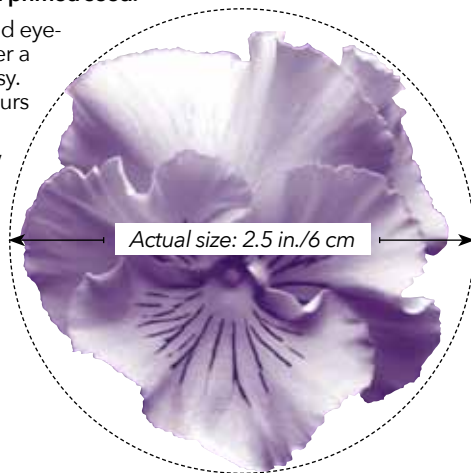
Height: 6 to 8 in./15 to 20 cm
Spread: 8 to 10 in./20 to 25 cm

Plug crop time: 5 weeks

Transplant to finish: Spring 8 to 9 weeks, Autumn 4 to 6 weeks

Supplied as raw and primed seed.

High seed quality and eye-catching looks deliver a top-performing pansy. Stronger ruffling occurs in cool conditions. Well-suited to packs, 3.5-in./9-cm pots, colour bowls and baskets.



Frizzle Sizzle Series

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

Plug crop time: 5 weeks

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

Supplied as raw and primed seed.

Offers more unique and bold colours than any other series of this type. Frilly flower form is great for cool season end cap displays, looks great in containers and "close-up" landscapes. Stronger ruffling occurs in cool conditions; Spring production is recommended.

F1 SPREADING PANSIES

Cool Wave Series see page 4.

PELARGONIUM

See **Geranium**, page 45.

PENNISETUM GLAUCUM

See **Ornamental Millet**, page 78.

PENSTEMON

Electric Blue, Violet Dusk see **Kieft Seed**, page 199.



Butterfly Red Pentas



Butterfly Deep Pink Pentas



Butterfly Deep Rose Pentas



Butterfly Lavender Shades Pentas



Butterfly Light Lavender Pentas



Butterfly White Pentas

PENTAS 🌞
Pentas lanceolata

Butterfly F1 Series 📏

Height: 12 to 22 in./30 to 55 cm
Spread: 10 to 18 in./25 to 45 cm

Plug crop time: 8 to 10 weeks
Transplant to finish: South 8 to 10 weeks, North 10 to 12 weeks

Supplied as pelleted seed.

Features large, star-shaped flowers and umbels up to 3 in./7 cm across. Hybrid vigour provides better stress tolerance than open-pollinated varieties. Flourishes in full sun with high heat and humidity. Attracts butterflies and hummingbirds. Can be sold as a late Spring to Summer item in cooler areas.

Deep Rose is the earliest of the series. Lavender Shades is the most compact of the series. White has some pink blushing under cooler conditions.

PEPPER, ORNAMENTAL 🌞
Capsicum annuum

FOLIAGE ORNAMENTAL
LANDSCAPE PEPPERS

Black Pearl 📏

Height: 14 to 18 in./35 to 45 cm; may grow to 3 ft./90 cm or more in warmer areas with longer growing seasons.
Spread: 12 to 16 in./30 to 40 cm

Plug crop time: 4 to 5 weeks
Transplant to finish: 9 to 10 weeks (no fruit), 16 to 20 weeks (mature fruit)

A Fantastic Foliage® selection. Supplied as raw seed.

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



Black Pearl Ornamental Pepper All-America Selections Winner, Fleuroselect Quality Award U.S. PVP Number 2005000020



Calico Ornamental Pepper



Purple Flash Ornamental Pepper

matures to dark red. Good for 4-in./10-cm to gallon programs. NOTE: Fruit is very spicy.

Calico F1 📏

Height: 10 to 12 in./25 to 30 cm
Spread: 14 to 16 in./35 to 40 cm

Plug crop time: 4 to 5 weeks
Transplant to finish: 9 to 10 weeks (no fruit), 16 to 20 weeks (mature fruit)

A Fantastic Foliage® selection. Supplied as raw seed.

Well-branched Calico shows off high-appeal, strongly variegated foliage of purple, cream and green. The compact and rounded accent plants are uniform in size across the crop for easy production. Extremely heat-tolerant Calico is great for landscaping and adds an exciting accent to mixed containers. Well-suited to 4-in./10-cm to gallon programs. NOTE: Fruit is very spicy.

Purple Flash 📏

Height: 13 to 15 in./33 to 38 cm
Spread: 19 to 21 in./48 to 52 cm

Plug crop time: 4 to 5 weeks
Transplant to finish: 9 to 10 weeks (no fruit), 16 to 20 weeks (mature fruit)

A Fantastic Foliage® selection. Supplied as raw seed.

Striking colouration and interesting plant architecture enhance in-ground plantings and mixed containers through the toughest conditions, including heat. Layered, scaffolding habit creates an exotic look. Compact, mounded plants are uniform in size across the crop for easy production. Well-suited to premium packs, 4 to 6-in./10 to 15-cm pots and gallons. NOTE: Fruit is very spicy.



Garda Fireworks



Garda Hocus Pocus Fleuroselect Novelty



Garda Tricoloure



Garda Chandelier



Sangria U.S. Utility Patent Number 7,696,416 and 7,393,995



Peppa Pepperoni



Peppa Purple/Tangerine



Peppa Blanca/Rosé



Peppa Lila/Naranja



Peppa Orangina

FRUITING ORNAMENTAL
LANDSCAPE PEPPERS

Garda F1 Series

Height: 16 to 24 in./40 to 60 cm
Spread: 18 to 22 in./45 to 55 cm

Plug crop time: 4 to 5 weeks
Transplant to finish: 18 to 24 weeks (mature fruit)

Supplied as raw seed.

Ornamental bedding series makes robust plants that display long-lasting colour - up to 4 months - on the fruit, over healthy green foliage.

Sangria F1 

Height: 10 to 12 in./25 to 30 cm
Spread: 16 to 18 in./40 to 45 cm

Plug crop time: 4 to 5 weeks
Transplant to finish: 8 to 12 weeks (no fruit), 12 to 18 weeks (mature fruit)

Supplied as raw seed.

Child-safe, non-pungent fruit is great for public plantings indoors and out. An indeterminate variety, the plants always have peppers of both purple and red for continuous, eye-catching displays. Well-branched and somewhat spreading, the uniform, full-bodied plants are ideal for filling in landscapes and containers. Well-suited to premium packs, 4 to 6-in./10 to 15-cm pots and gallons.

FRUITING ORNAMENTAL
PATIO PEPPER

Peppa F1 Series

Height: 10 in./25 cm
Spread: 14 to 16 in./35 to 40 cm

Plug crop time: 4 to 5 weeks
Transplant to finish: 16 to 20 weeks (mature fruit)

Supplied as raw seed.

Ideal for patio planters, compact, well-branched plants produce long-lasting, non-pungent fruits. Good for 4 to 5-in./10 to 12-cm programs.

FRUITING ORNAMENTAL
POT PLANT PEPPERS

Chilly Chili 

Height: 9 to 10 in./23 to 25 cm
Spread: 13 to 14 in./33 to 35 cm

Plug crop time: 4 to 5 weeks
Transplant to finish: 8 to 12 weeks (no fruit), 12 to 18 weeks (mature fruit)

Supplied as raw seed.

Non-pungent fruit, ideal for indoor and outdoor use in public and residential areas. F1 vigour makes it excellent for large containers and landscape use. Fruit starts out greenish yellow, gradually changes to orange and matures to dark red. Each fruit is 2 to 2.5 in./5 to 5.5 cm long. Overall plant size is about 30% larger than Medusa. Recommended for 4.5 to 6-in./11 to 15-cm pots. Crop time is similar to Medusa.



Chilly Chili *All-America Selections Winner* Plants grown from this seed are protected by U.S. Utility Patent Number 7,087,819 and 7,393,995.



Masquerade



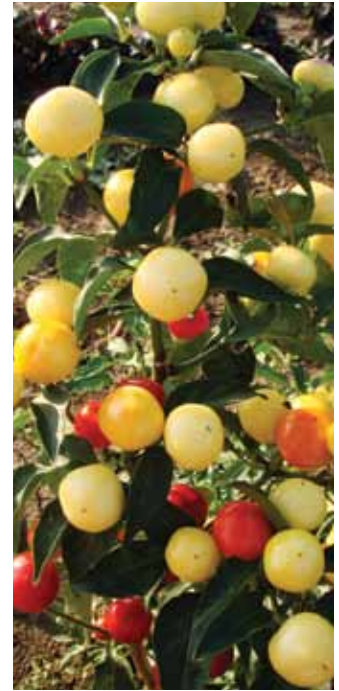
Medusa U.S. PVP Number 200000140. Plants grown from this seed are protected by U.S. Utility Patent Number 7,087,819 and 7,393,995.



Cappa Topfruit White-Red



Cappa Round Red



Cappa Round Tricolour



Red Missile



Cappa Conic White/Red

Masquerade

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

Plug crop time: 4 to 5 weeks
Transplant to finish: 12 to 14 weeks (mature fruit)

Supplied as raw seed.

Very early plants bear long fruit that is purple when they appear, then turn yellow, orange, and finally red. Fruit is hot. For early 4-in./10-cm pot sales.

Medusa

Height: 6 to 8 in./15 to 20 cm
Spread: 4 to 6 in./10 to 15 cm

Plug crop time: 4 to 5 weeks
Transplant to finish: 8 to 12 weeks (no fruit), 12 to 18 weeks (mature fruit)

Supplied as raw seed.

Colourful, twisted, non-pungent fruit on naturally dwarf, well-branched variety. Ideal for 4-in./10-cm pot culture, with no growth regulators needed. Produces 2 to 2.5-in./5 to 5.5-cm fruit over dark green foliage. Fruit starts ivory and turns yellow, then orange and finally bright red. A single plant can produce 40 to 50 fruits, displaying the entire colour range at once. Medusa holds its fruit well, allowing for great shelf life and long sales period.

Red Missile

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

Plug crop time: 4 to 5 weeks
Transplant to finish: 12 to 14 weeks (mature fruit)

Supplied as raw seed.

Compact plants offer 2-in./5-cm, hot, tapered fruit that changes from cream to orange to bright red. Good for containers and gardens. Earliest to fruit.

CUT FLOWER ORNAMENTAL PEPPERS

Cappa F1 Series

Height: 32 to 40 in./80 cm to 1 m
Spread: 12 to 16 in./30 to 40 cm

Plug crop time: 4 weeks
Transplant to finish: 14 to 18 weeks

Supplied as raw seed.

Suitable for greenhouse and field cut flower production, Cappa features strong stems topped with many colourful, long-lasting fruits. Basal-branching plants are highly productive.



Sugar Daddy



Daddy Mixture



Peppermint Daddy



Pink Daddy



Baby Duck Yellow



Blue Daddy



Orchid Daddy All-America Selections Winner



Red Daddy

PETUNIA 🌻

Petunia x hybrida

SPREADING PETUNIA

Fuseables® Blueberry Lime Jam
Fuseables Burgundy Starlight
Fuseables Flirtini
Fuseables Key Lime Parfait
Fuseable Lime Coral
Fuseables Pink Dream
Fuseables Pleasantly Blue
New Fuseables Strawberry Wine
Fuseables Vogue

These Fuseables contain novelty and standard petunia varieties. See page 14.

Wave Series see page 6.

F1 SMALL-FLOWERED SPREADING PETUNIA

Baby Duck Yellow 🌻

Height: 10 to 14 in./25 to 35 cm
Spread: 3 to 3.5 ft./90 cm to 1 m

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

Supplied as pelleted seed.

Fills in landscapes, gardens and containers quickly. Small, trumpet-shaped blooms - 1.5 to 1.75 in./4 to 4.5 cm in diameter - blanket vigorous, slightly upright spreading plants.

American Garden Award Winner

F1 GRANDIFLORA SINGLE PETUNIA

Daddy® Series

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

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

Supplied as raw seed and pelleted seed.

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

Red Daddy is also known as Strawberry Daddy in North America.

decorator petunias

The designer Debonair and Sophistica collections combine beautiful flowers painted in special one-of-a-kind colours with professional seed quality. They mix beautifully with other classes. Suitable for pots, combo planters and baskets, these premium petunias can command a higher price point at retail, and open the door to decorator opportunities. See page 16 to start thinking outside the pack!



Debonair Lime Green U.S. Plant Utility Patent Number 7,642,436; European Utility Patent Applied For



Sophistica Antique Shades U.S. Plant Utility Patent Number 7,642,436; European Utility Patent Applied For



Debonair Dusty Rose U.S. Plant Utility Patent Number 7,642,436; European Utility Patent Applied For



New Sophistica Lime Bicolor Improved U.S. Plant Utility Patent Number 7,642,436; European Utility Patent Applied For



Debonair Black Cherry U.S. Plant Utility Patent Number 7,642,436; European Utility Patent Applied For



From top:
Sophistica Blue Morn,
Sophistica Blackberry,
Sophistica Lime Green

Sophistica® Collection

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

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

Supplied as pelleted seed.

An abundance of grandiflora blooms in unique colours!

- Plants are well-matched for flower timing to make scheduling and shipping easier.
- Mounded and upright habit is ideal for premium pots and larger containers.

New Lime Bicolor Improved has more distinctive pattern with less variation.

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

Debonair Collection

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

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

Supplied as pelleted seed.

Multiflora blooms are displayed on the well-branched, mounded and upright plants.

Dusty Rose becomes lighter in higher light/warmer conditions.



Ez Rider White



New Ez Rider Red



Ez Rider Rose



Ez Rider White

F₁ COMPACT GROWING PETUNIA

These two series solve the seasonal, geographic and control challenges of traditional petunias - the perfect collection for growing and selling high-density cell packs to "promo" hanging baskets.

- Up to half the amount of PGRs needed - or none under some growing regimes.
- Suitable for cold-growing.
- Tight bloom windows lets you ship and display all colours in a series at the same time.
- Better branching with improved airflow versus other compact petunias means less chance of disease, especially *Botrytis*, for better appearance and holdability through the entire chain.
- Available in the top-selling colours that make up 75% of petunia sales.
- With enhanced, longer performance in beds and landscapes, the plants hold together and don't lodge later in the season like traditional petunias can.



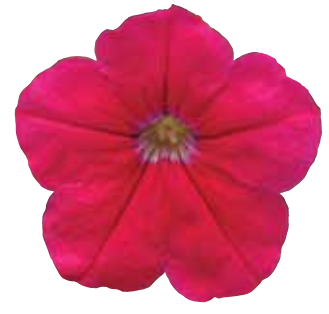
Ez Rider Blue Petunia



Ez Rider Deep Pink



Lo Rider Blue



Lo Rider Pink



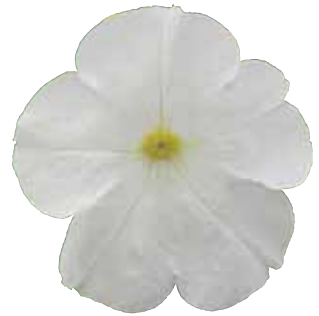
Ez Rider Deep Salmon



New Ez Rider Mixture



Lo Rider Red



Lo Rider White



Ez Rider Chopper Mixture



Lo Rider Mixture

Ez Rider® Grandiflora Series ⚡⚡

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

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

Supplied as pelleted seed.

Deep Pink has colour similar to Rose in low light; in higher light, colour is lighter than Rose.

Rose has colour similar to Deep Pink in low light; in higher light, colour is deeper than Deep Pink.

Chopper Mixture contains Blue, White, Deep Salmon, Rose.



Ez Rider Blue (left) Standard petunia (right)

Lo Rider® Multiflora Series ⚡⚡

Height: 7 to 10 in./17 to 25 cm
Spread: 8 to 12 in./20 to 30 cm

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

Supplied as pelleted seed.

Not available in North America.



Lo Rider White (left) Standard petunia (right)

dreams



Pretty Grand Purple



Pretty Grand Midnight



Pretty Grand Coral



Pretty Grand Red



Pretty Grand Rose



Pretty Grand Deep Pink



Pretty Grand Summer



Pretty Grand White



Pretty Grand Mixture



Pretty Flora Pink



Pretty Flora White



Pretty Flora Coral



Pretty Flora Pink



Pretty Flora Midnight



Pretty Flora Purple



Pretty Flora Red



Pretty Flora Mixture

This collection needs fewer to no PGRs and is suitable for cold growing. Better branching with improved airflow assures less chance of disease for better shelf life at retail and less waste. Tight bloom window and longer performance in beds and landscapes.

Pretty Grand Grandiflora Series

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

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

Plug crop time: 5 to 6 weeks

Transplant to finish: 5 to 6 weeks

Supplied as pelleted seed.

Available in North America only.

Pretty Flora Floribunda Series

Height: 7 to 10 in./17 to 25 cm

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

Plug crop time: 5 to 6 weeks

Transplant to finish: 5 to 6 weeks

Supplied as pelleted seed.

Available in North America only.



Dreams Rose Morn



Red



Midnight



Coral Morn



Neon Rose



Pink Vein



Pink



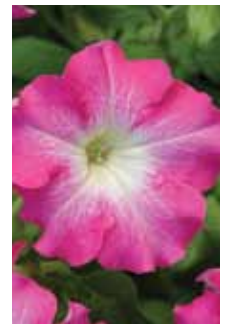
White



Red Picotee



Rose



Rose Morn



Appleblossom



Burgundy



Burgundy Picotee



Rose Picotee



Salmon



Sky Blue

F₁ GRANDIFLORA SINGLE PETUNIA

Dreams Series

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

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

Plug crop time: 5 to 6 weeks

Transplant to finish: 5 to 6 weeks

Supplied as raw and pelleted seed.

Well-matched, free-flowering series provides a 5 to 7-day Spring bloom time window across all colours. Tight branching habit and plant structure assure a high-quality look and excellent performance. Consistently high seed quality and less chance of disease, especially *Botrytis*.

Pink Vein is not available in North America.

Patriot Mixture contains Red, White, Midnight (blue).

Waterfall Mixture contains Sky Blue, Midnight, White.

Wild Rose Mixture contains Appleblossom, Neon Rose, Burgundy.



Mixture



Patriot Mixture



Waterfall Mixture



Wild Rose Mixture

carpet



Supercascade Blue



Supercascade Burgundy



Supercascade Lilac



Supercascade Red



Supercascade Rose



Supercascade Pink



Supercascade White



Supercascade Mixture

Supercascade Series

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

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

Plug crop time: 5 to 6 weeks

Transplant to finish: 5 to 6 weeks

Supplied as raw and pelleted seed.

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

Blush (Not pictured)

Salmon (Not pictured)





Blue



Blue Lace



Blue Star



Bright Red



Buttercream



Lilac



Pink



Pink Morn



Plum



Rose



Rose Star



Salmon



Sky Blue



True Blue



Velvet



White



Mixture



Neptune Mixture

F1 MULTIFLORA SINGLE PETUNIA

Carpet Series

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

Spread: 10 to 15 in./25 to 38 cm

Plug crop time: 5 to 6 weeks

Transplant to finish: 4 to 5 weeks

Supplied as raw and pelleted seed.

Heat-tolerant plants deliver incredible garden performance in high-heat areas. Free-flowering with excellent branching and mid-size blooms, Carpet delivers a lush "carpet" of colour all season long in home gardens or commercial landscapes.

Neptune Mixture contains True Blue, Blue, Sky Blue, Lilac, Blue Lace, White.

mirage



Mirage Series

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

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

Supplied as raw and pelleted seed.

Not available for sale in North America.

Large flower size and multiflora flower show makes impressive displays in packs, pots, beds and mass plantings all season until frost. Delivers outstanding performance at every stage - seed quality, seedling vigour and plant habit - and across a wide range of conditions.

Reflections Mixture contains veined colours.

Mixture



Blue



Blue Star



Burgundy Star



Carmine



Chic



Lavender



Lavender Glow



Light Blue



Lilac



Mid-Blue



Orchid



Pink



Plum Crystal



Purple



Red



Red Morn



Red Picotee



Rose



Rose Morn



Salmon



Salmon Morn



Spring



Sugar



Summer



Velvet



White



Yellow



Reflections Mixture



Plum Crazy



Lavender Glow



Lilac



Magenta



Midnight



Burgundy



Burgundy Star



Carmine



Orchid



Pink



Plum

F1 FLORIBUNDA PETUNIA

Madness Series

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

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

Plug crop time: 5 to 6 weeks

Transplant to finish: 5 to 6 weeks

Supplied as **Ball Controlled Growth seed** and **pelleted seed**.

Available in North America only.

Exceptional seed quality, plug performance and uniformity across all colours from sow to finish. Well-branched, floriferous plants are covered with an abundance of 3-in./7-cm blooms throughout the Summer, right up until frost.

Midnight

Red

White

Clear Madness Mixture contains all clear colours except Yellow and Pink.

Just Madness Mixture contains six veined colours.

Madness Merlot Mixture contains Carmine, Lavender, Pink, White.

Madness Old Glory Mixture contains Red, White, Midnight.

Madness Red Splash Mixture contains Red, White, Red Picotee.

March Madness Mixture contains Rose Morn, Pink, White.

Moonlight Madness Mixture contains Lavender Glow, Yellow, Lilac.

Total Madness Mixture is a bright mix of 13 colours.

Waterfall Madness Mixture contains Lilac, Magenta, Royal, White.



Plum Crazy



Red



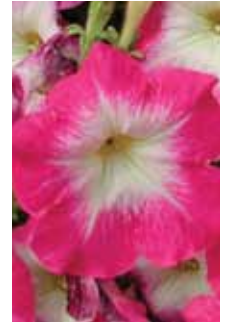
Red Morn



Red Picotee



Rose



Rose Morn



Royal



Salmon Morn



Sheer



Simply



Spring



Sugar



Summer



White



Yellow



Clear Madness Mixture



Just Madness Mixture



Merlot Mixture



Old Glory Mixture



Red Splash Mixture



March Madness Mixture



Moonlight Madness Mixture



Total Madness Mixture



Waterfall Mixture



Double Cascade Blue



Double Cascade Burgundy



Double Cascade Orchid Mist



Double Cascade Pink



Double Cascade Mixture

F₁ GRANDIFLORA DOUBLE PETUNIA

Double Cascade Series

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

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

Supplied as raw and pelleted seed.

Featuring huge, 4 to 5-in./10 to 13-cm, double flowers that resemble carnations, Double Cascade varieties have an outstanding habit and good branching. Excellent program for late Spring sales. Well-suited to larger containers, mixed combination planters and beds.



Pirouette Purple All-America Selections Winner



Pirouette Red



Pirouette Rose



Glorious Mixture



Valentine

Glorious Mixture

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

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

Supplied as raw and pelleted seed.

Bright mix of solids and bicolours.

Pirouette Series

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

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

Supplied as raw and pelleted seed.

Eye-catching, very double flowers with serrated petals in distinctive bicolour picotee patterns.

Valentine

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

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

Supplied as raw and pelleted seed.

Soft red with serrated petals.



Red



Blue



Burgundy



Lavender



Rose



Satin Pink



Pink



Red And White



Rose And White



Mixture

F1 MULTIFLORA DOUBLE PETUNIA

Duo Series

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

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

Plug crop time: 4 to 5 weeks

Transplant to finish: 5 to 6 weeks

Supplied as raw and pelleted seed.

Not available for sale in North America. Also known as Double Madness.

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



Double Madness Rose And White



Double Madness Blue



Double Madness Burgundy



Double Madness Lavender



Double Madness Pink



Double Madness Red



Double Madness Red And White



Double Madness Rose



Double Madness Satin Pink



Double Madness Mixture



Bonanza Mixture

F1 FLORIBUNDA DOUBLE PETUNIA

Double Madness Series

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

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

Plug crop time: 4 to 5 weeks

Transplant to finish: 5 to 6 weeks

Supplied as pelleted seed.

Available in North America only.

Offering the same superior performance as the original Madness series, the compact and floriferous plants deliver masses of 2 to 2.25-in./5 to 5.5-cm flowers all Summer. Well-suited to large containers, mixed combinations and beds.

Bonanza Mixture

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

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

Plug crop time: 4 to 5 weeks

Transplant to finish: 5 to 6 weeks

Supplied as raw and pelleted seed.

Combines the beauty of double flowers and prolific flowering of multifloras. Formula blend has 2 to 2.5-in./5 to 6-cm blooms on mounded plants. A favourite among home gardeners.



Blue



Buttercream



Crimson



Patriot Mixture



Blue Star



Pink



Rose Star



Salmon



Scarlet



White



Magenta Mixture



Mixture

PHLOX

Phlox drummondii

21st Century F1 Series

Height: 10 in./25 cm

Spread: 10 in./25 cm

Plug crop time: 4 to 5 weeks

Transplant to finish: 6 weeks

Supplied as primed seed.

The world's first F1 phlox!

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

Blue Star and Rose Star have deeper colour intensity under cooler temperatures, lighter under warm.

Magenta Mixture contains rose-magenta shades with a touch of white.

Patriot Mixture contains Crimson, Blue, White.



White



Ethnie Mixture

Ethnie Dark Rose

Ethnie Light Blue



Ethnie Salmon



Ethnie Scarlet



Ethnie Purple Violet



Ethnie White



Ethnie Velvet Red
Fleuroselect Quality Award



Ethnie Pastel Mixture
Fleuroselect Quality Award



Promise Lilac-Blue
Fleuroselect Novelty



Promise Peach
Fleuroselect Quality Award



Promise Pink
Fleuroselect Novelty



Promise Rose
Fleuroselect Quality Award



Promise Scarlet
Fleuroselect Novelty



Promise White
Fleuroselect Quality Award

Ethnie Series

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

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

Supplied as raw seed.

Genetically compact series is an excellent choice for pot and pack programs, delivering uniform habit and earliness. Crop time is just 10 to 12 weeks and no PGRs are needed in production.

Promise Series

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

Plug crop time: 4 to 5 weeks
Transplant to finish: 7 to 8 weeks

Supplied as raw seed.

Very floriferous plants feature double and semi-double flowers held well above the foliage. Strong outdoor vigour makes Promise a long-lasting garden performer. Well-suited to large pack and pot production.

Mixture (Not pictured)



Grammy Pink & White *Fleuroselect Gold Medal*

Grammy Pink & White F1

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

Plug crop time: 4 to 5 weeks
Transplant to finish: 7 to 8 weeks

Supplied as primed seed.

The most compact F1 phlox. Excellent uniformity makes it very manageable in packs and pots. Vigorous, free-flowering plants produce one-of-a-kind bicolor blooms all season in mixed containers, gardens and planters.



Silver Shield



Silver Crest



Silver Shield

PLECTRANTHUS 🌻 🌻
Plectranthus argentatus

Silver Crest

Height: 8 to 10 in./20 to 25 cm
Spread: 18 to 24 in./45 to 60 cm

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

A Fantastic Foliage® selection.
Supplied as raw seed.

Compact accent plant is an easy and economical choice for mixed containers, baskets and landscapes. Tolerant of heat and water stress, with silvery green, fuzzy foliage and small, blush white flowers on well-branched, trailing plants.

Silver Shield 🌻

Height: 24 to 30 in./60 to 75 cm
Spread: 24 to 30 in./60 to 75 cm

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

A Fantastic Foliage® selection.
Supplied as pelleted seed.

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

happy hour



Mixture



Banana



Coconut



Fuchsia



Lemon



Orange



Peppermint



Deep Red



Rosita



Pink Passion Mixture



Tropical Mixture

POPPY, ICELAND

Champagne Bubbles F1 Series

See *Kieft Seed*, page 199.

PORPHYROCOMA

See *Brazilian Fireworks*, page 28.

F1 PORTULACA 🌻

Portulaca grandiflora

Happy Hour Series

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

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

Plug crop time: 4 to 5 weeks

Transplant to finish: 5 weeks

Supplied as raw seed and multi-seed pellets.

Sow Happy Hour up to 2 weeks earlier; it's bred to bloom under shorter days than other portulacas on the market.

- Tidy, mounded plants are easier to pack and ship, with less breakage than prostrate types.
- Flowers uniformly across the series.
- Well-branched plants create an easy, terrific look.
- Extra-appealing at retail, with fuller habit and large, double blooms in vivid colours.

Pink Passion Mixture contains Rosita, Peppermint and Fuchsia.

Tropical Mixture contains Deep Red, Orange and Banana.

happy trails



Deep Red



Fuchsia



Orange



Peppermint



Pink Passion Mixture



Pink



Primrose



Rosita



Yellow

F₁ TRAILING PORTULACA 🌞 *Portulaca grandiflora*

Happy Trails Series

Height: 6 to 9 in./15 to 23 cm

Spread: 14 to 18 in./35 to 45 cm

Plug crop time: 4 to 5 weeks

Transplant to finish: 6 weeks

Supplied as raw seed and multi-seed pellets.

Happy Trails takes portulaca to a whole new level...trailing portulaca with the shortest photoperiod on the market today - 10 hours!

- Sow Happy Trails up to 2 weeks earlier than any other trailing portulaca to meet market demands.
- The most vivid colour assortment available, including intense Deep Red and unique Rosita.
- Series has brilliant colours and fantastic spread in the garden.

Pink Passion Mixture contains Rosita, Peppermint, Fuchsia.

Tropical Mixture contains Deep Red, Orange, Yellow.



White



Mixture



Pink Passion Mixture



Tropical Mixture



Primlet Formula Mixture Primula



Primlet Golden Shades Primula



Primlet Lavender Shades Primula



Primlet Lemon Shades Primula



Primlet Pink Shades Primula



Primlet Purple Primula



Primlet Rose Primula



Primlet Sunrise Primula



Primlet White Primula



Primlet Yellow Primula



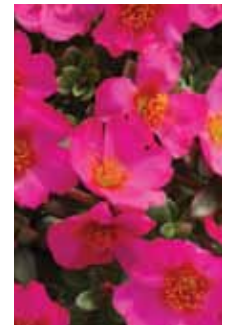
Primlet Rose With Edge Primula



Primlet Scarlet Red Shades Primula



Heritage Creme Primula



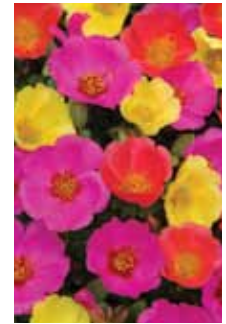
Toucan Fuchsia Purslane



Toucan Scarlet Shades Purslane



Toucan Yellow Purslane



Toucan Hot Mixture Purslane



Southern Star Blue Ruellia



Southern Star Pink Ruellia



Southern Star White Ruellia

PRIMULA 🌻
Primula acaulis

Heritage Creme F1

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

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

Supplied as raw seed.

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

Primlet® Series

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

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

Supplied as raw seed.

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

Purple is the most vigorous in the series.

PURSLANE 🌻
Portulaca oleracea

Toucan Series

Height: 3 to 4 in./7 to 10 cm
Spread: 14 to 16 in./35 to 40 cm

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

Supplied as raw seed.

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

NOTE: It is recommended to sow 4 seeds per cell.

RUELLIA 🌻
Ruellia brittoniana

Southern Star Series

Height: 10 to 12 in./25 to 30 cm
Spread: 16 to 18 in./40 to 45 cm

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

USDA Hardiness Zones: Hardy to Zone 8 (10°F/-12°C minimum temperature)

Supplied as raw seed.

The first dwarf ruellia from seed is easy to program and produces clean green foliage. Low-maintenance, tolerates wet and dry conditions. Great for Southern perennial programs; can be used as in-ground or container annual in other regions, but not recommended for the far North.



Vista Red



Vista Mixture



Red Hot Sally II



Vista Lavender



Vista Purple



Vista Red And White



Flare



Scarlet Queen



Vista Rose



Vista Salmon



Vista White



Lighthouse Red



Lighthouse Purple

SALVIA 🌞
Salvia splendens

Vista Series

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

Plug crop time: 4 to 5 weeks
Transplant to finish: 4 to 5 weeks
Supplied as raw seed.

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

Flare

Height: 14 in./38 cm
Spread: 8 in./20 cm

Plug crop time: 4 to 5 weeks
Transplant to finish: 4 to 5 weeks
Supplied as raw seed.

Sets the standard for taller salvia producing a profusion of bright red spikes that contrast well with dark green foliage.

Lighthouse Series

Height: 24 in./60 cm
Spread: 10 in./25 cm

Plug crop time: 4 to 5 weeks
Transplant to finish: 4 to 5 weeks
Supplied as raw seed.

Tall, bushy plants display long-lasting colour. Heat-resistant and ideal for low-maintenance landscaping use; can also be used in large patio containers.

Red Hot Sally II

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

Plug crop time: 4 to 5 weeks
Transplant to finish: 4 to 5 weeks
Supplied as raw seed.

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

Scarlet King

(Not pictured)

Height: 11 in./28 cm
Spread: 8 in./20 cm

Plug crop time: 4 to 6 weeks
Transplant to finish: 4 to 5 weeks
Supplied as raw seed.

Excellent bright colour at finish.

Scarlet Queen

Height: 9 in./23 cm
Spread: 8 in./20 cm

Plug crop time: 4 to 6 weeks
Transplant to finish: 4 to 5 weeks
Supplied as raw seed.

Good earliness, flowering 5 days earlier than Scarlet King.



Snapshot Mixture Snapdragon



Snapshot Burgundy Snapdragon



Snapshot Orange Snapdragon



Snapshot Pink Snapdragon



Snapshot Plumblossom Snapdragon



Snapshot Rose Snapdragon



Snapshot Purple Snapdragon



Veranda Scutellaria



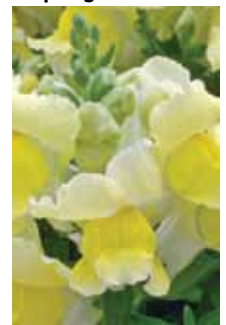
Snapshot Red Bicolor Snapdragon



Snapshot Red Snapdragon



Snapshot White Snapdragon



Snapshot Yellow Snapdragon

SCUTELLARIA 
Scutellaria javanica

Veranda

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

Plug crop time: 6 weeks
Transplant to finish: 7 to 10 weeks

Supplied as raw seed.

Heat-tolerant plants feature bicolor blue-purple blooms over glossy, dark green foliage. Similar to ornamental pepper culture and crop timing, Veranda is best grown warm and bright in production, but prefers shady locations in the garden.

SNAPDRAGON 
Antirrhinum majus

F1 DWARF GARDEN SNAPDRAGON

Snapshot Series 

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

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

Supplied as raw seed.

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

Merlot Mixture contains White, Plumblossom, Burgundy.



Snapshot Merlot Mixture Snapdragon



Solstice Burgundy



Solstice Lavender



Solstice Orange Tricolour



Rocket Bronze All-America Selections Winner



Rocket Golden All-America Selections Winner



Rocket Cherry



Solstice Pink



Solstice Purple



Solstice Red



Rocket Orchid All-America Selections Winner



Rocket Pink



Solstice Rose



Solstice White



Solstice Yellow



Rocket Red All-America Selections Winner



Rocket Rose Shades All-America Selections Winner



Rocket White All-America Selections Winner

F1 GARDEN SNAPDRAGONS

Solstice Series

Height: 16 to 20 in./40 to 50 cm
Spread: 10 to 14 in./25 to 35 cm

Plug crop time: 5 to 6 weeks
Transplant to finish gallon containers: Northern Hemisphere - Oct. to early Jan. sowing 10 to 11 weeks, Sept. & mid Jan. sowing 5 to 7 weeks; Southern Hemisphere - Apr. to early Jul. sowing 10 to 11 weeks, Mar. & mid Jul. sowing 5 to 7 weeks

Supplied as raw seed.

Flowers earlier under shorter days than other intermediate varieties, making it ideal for Winter bedding where climate permits. "Knee-high" height makes them great for landscapes and garden cut flowers. Performs best with high light and cool nights (45-55°F/7-13°C). Group 1 Winter-flowering snapdragon.



Solstice Mixture

Red has a yellow bee.

White flowers have a yellow bee; slight pink blush most noticeable in buds.

Yellow may have pink buds and blush pink in lower light.

F1 GARDEN/CUT FLOWER SNAPDRAGONS

Rocket Series

Height: 30 to 36 in./75 to 90 cm
Spread: 16 to 18 in./40 to 45 cm

Plug crop time: 5 to 6 weeks
Transplant to finish: 13 to 16 weeks as a cut or garden flower

Supplied as raw seed.

Vigorous, heat-tolerant plants reach a uniform height and are topped by excellent-quality, closely set blooms. Flowers well under long days. Useful as both a landscape series and as garden cut flowers. Suitable for commercial greenhouse or field-grown cut flower production. Group 3-4 flowering snapdragon.

Rocket Lemon (Not pictured)



Rocket Mixture

cut flowers



Potomac Lavender (3, 4)

F₁ CUT FLOWER
SNAPDRAGONS

Location: Greenhouse, field or tunnel production

Stem Length: 39 to 60 in./1 to 1.5 m

Plug crop time: 4 to 5 weeks

Transplant to finish: 8 to 18 weeks

All cut flower snapdragons are supplied as raw seed.

PanAmerican Seed is the world's leading supplier of F₁ hybrid forcing snaps, with an unsurpassed choice of top-producing varieties selected for stem and flower quality, photoperiodic response and earliness to flower. Forcing snaps are classified into four groups based on flowering response to a combination of daylength, light intensity and temperature. When the four groups are combined, they let growers produce a high-quality crop year-round.

Early Potomac Series (Group 3)

Ideal for Spring and Autumn programs, producing very high-quality, long stems with excellent taper. They can be grown under medium to long days and moderate to high light levels, producing very high-quality, long stems with excellent taper. Suitable for greenhouse and field cut flower production, as well as home garden cut flowers.

Early Orange (3) is the best bronze for Group 3 to Group 2 transition in the Autumn.

Early Pink (3) has consistent performance for Group 3, and Group 2 to Group 3 transition. Timing similar to Early White and Monaco Rose.

Early Yellow (Not pictured)

Potomac Series (Group 3,4)

Ideal 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 lighting. Suitable for greenhouse and field cut flower production, as well as home garden cut flowers.

cut flowers



Early Potomac Early White (3)



Early Potomac Early Pink (3)



Early Potomac Early Rose (3)



Early Potomac Early Orange (3)



Potomac Appleblossom (3,4)



Potomac Cherry Rose (3,4)



Potomac Crimson (3,4)



Potomac Lavender (3,4)



Potomac Pink (3,4)



Potomac Plumblossom (3,4)



Potomac Red (3,4)

Choose from a snap selection second to none.

We're the leading supplier of F1 forcing snapdragons, but we never rest on our laurels. Our lineup is continually refined and expanded so you have the best, most competitive varieties to grow and sell. Our breeding and research teams critically evaluate current and future varieties around the world for spike, stem and flower quality; vase life; flowering response; colour; post-harvest traits; and seed quality.



Shравan Dasoju
Assistant Product Manager

Growers use snaps to diversify and add profits to their cut flower program, while floral designers find the ever-increasing colour range, distinctive flower shape and year-round availability highly valuable. Whatever the colour or season you need, count on PanAmerican Seed for the best tried-and-true varieties, as well as interesting novelties like Purple Stripe.



Scan here or go to panamseed.com/potomac



Potomac Dark Orange (3,4)



Potomac Ivory White (3,4)



Potomac Orange (3,4)



Potomac Royal (3,4)



Potomac White (3,4)



Potomac Yellow (3,4)

Appleblossom (3,4) times with Ivory White and Pink.

Ivory White (3,4) is the best white for high light, warm nights.

Plumblossom (3,4) has Group 3 timing. Can be harvested later into Autumn than Appleblossom.

Royal (3,4) has timing similar to Pink. Can be late in Autumn – best sown before July 4 in cooler climates.

Yellow (3,4) matches Pink and Appleblossom for timing.

Rose (3, 4) (Not pictured)

Soft Yellow (3) (Not pictured)

Series Selection for Creating a High-Quality Year-Round Snapdragon Program

Group	Growing-On Night Temperatures	Series
1,2	45 to 55°F/7 to 13°C for late Autumn and early Spring harvest	Connexion, Cool, Maryland, Purple Twist, Red Delilah, Trumpet
2,3	52 to 57°F/11 to 14°C for Autumn and Spring harvest	Apollo, Monaco, Paxia
3,4	60°F/15°C for late Spring, Summer and early Autumn harvest	Axiom, Potomac, Early Potomac



Axiom Mixture



Axiom Bronze (3,4)



Apollo Purple (2,3)



Apollo Cinnamon (2,3)



Axiom Deep Orange (3,4)



Axiom Deep Rose (3,4)



Axiom Orange (3,4)



Axiom Paper White (3)



Axiom Pink (3,4)



Axiom Rose (3,4)



Axiom White (3,4)



Axiom Yellow (3,4)



Apollo Yellow (2,3)



Apollo Ivory (2,3)

Axiom Series (Group 3,4)

Axiom is suited to Autumn and late Spring-flowering programs. The series delivers a strong upright habit, good stem quality and densely packed florets.

Apollo Series (Group 2,3)

Peloric (open-faced) varieties offer excellent flower quality, with some of the largest florets of any snapdragons. Flowers are perfectly arranged along medium-long spikes, on thicker stems with taller height and more blooms than comparable series. Well-timed with Monaco for Autumn and Spring harvest. Suitable for greenhouse and field production, as well as home garden cut flowers.

Cinnamon (2,3) is well-timed with Ivory and Purple.

Yellow (2,3) is ready for harvest 4 to 5 days earlier than Ivory in Spring and 10 to 14 days earlier in Autumn.



Cool White (1,2)



Cool Bronze (1,2)



Cool Coral (1,2)



Connexion Pink (1,2)



Cool Crimson (1,2)



Cool Orange Bicolour (1,2)



Connexion Red (1,2)



Connexion Rose (1,2)



Cool Pink (1,2)



Cool Rose (1,2)



Cool Salmon (1,2)



Cool Yellow (1,2)



Connexion White (1,2)



Connexion Yellow (1,2)

Cool Series (Group 1,2)

The best, most uniform Winter-flowering snapdragon. Genetically matched Cool varieties offer uniformity across the series and within each colour for timing, height and spike quality. The strong and sturdy stems have long and tight spikes with long tapers. Best produced under cool conditions, also the best series for dependable harvest during cool months. Well-suited to outdoor growing or under tunnels in California Winter conditions. It is an excellent production companion to Delphiniums. Also suitable for home garden cut flowers.

Orange Bicolour (1,2) matches Bronze for timing and height.

Connexion Series (Group 1,2)

This Group 1,2 series is suited to harvesting in late Autumn, Winter and early Spring, and can be forced under low light/cool growing conditions. The highly uniform plants produce strong, densely filled spikes in vivid colours on strong, good quality stems.



True Pink (1,2)



White (2)



Appleblossom (2)



Flame (1,2)



Golden Bronze (1,2)



Lavender (1,2)



Orange (1,2)



Plumblossom (2)



Red (2)



Royal (1,2)



Shell Pink (2)



White & Yellow Bicolor (2)

Maryland Series (Group 1,2)

Well-suited to cool-season, low-light and low-temperature conditions, these energy-efficient varieties group well with our other Group 1,2 varieties for Autumn, Winter and Spring programs. Well-defined flower spikes are produced on sturdy, clean stems. Suitable for greenhouse or field cut flower production, as well as home garden cut flowers.

Appleblossom (2) is a late Group 2, last to bloom of the series.

Bright Yellow (2) has dependable height and quality as Autumn Group 2. Best yellow for a smooth transition from Group 3 to Group 2.

Ivory White (1,2) is early as an Autumn Group 2.

Plumblossom (2) matches average timing for Bright Yellow and Royal.

Shell Pink (2) matches White for crop timing.

True Pink (1,2) matches Ivory White for crop time.

White & Yellow Bicolor (2) matches Bright Yellow and Plumblossom for crop time.

Bright Yellow (2) (Not pictured)

Dark Orange (2) (Not pictured)

Flamingo (1,2) (Not pictured)

Ivory White (1,2) (Not pictured)

Yosemite Pink (1,2) (Not pictured)



Yellow (2,3)



White (2,3)



Baltimore Rose (2,3)



Red (2,3)



Rose (2,3)



Violet (2,3)

Monaco Series (Group 2,3)

Well-suited to difficult "transition" periods, such as from Group 3,4 (Summer) to Group 1,2 (Autumn/Winter) varieties. Tolerates warm Autumn conditions without flowering too quickly, and produces high-quality flower spikes when Autumn weather is unusually cool and dark. Performs well all year in areas with moderate temperatures and little daylength fluctuation. Suitable for greenhouse and field cut flower production, as well as home garden cut flowers.

Baltimore Rose (2,3) is early as Group 3 and very reliable for Group 3 to Group 2 transition.

Red (2,3) has timing similar to or slightly earlier than Rose. Essentially a Group 2, with extended use into Group 3 periods.

Rose (2,3) is an excellent Group 2; also blooms well as an early Group 3, greatly extending its usefulness. Times close to Early Potomac Pink as a Group 3.

Violet (2,3) has timing similar to Rose.

White (2,3) is a good match to Rose and Violet.

Yellow (2,3) is a perfect transition between Potomac Yellow and Maryland Bright Yellow in the Spring and Autumn. Slightly earlier than Monaco Rose or Violet, and later than Monaco Red.



Purple Twist (2)



Red Delilah (2)



New Trumpet Pink (1,2)



Trumpet Tangerine (1,2)



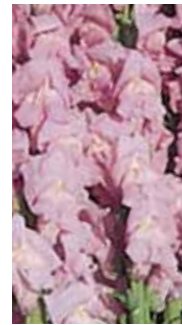
Paxia Bronze (2,3)



Paxia Orange (2,3)



Paxia Candy Rose (2,3)



Paxia Rose (2,3)



Paxia Scarlet (2,3)



Paxia White (2,3)



Paxia Yellow (2,3)

Paxia Series (Group 2,3)

Paxia is suited to Autumn and Spring harvest. This series has excellent uniformity with high-quality stems.

Purple Twist (Group 2)

This unique standalone variety adds novelty to your cut flower snapdragon program. Can be produced under short days/moderate light conditions with night temperatures of 50 to 55°F/10 to 13°C during production. Can be scheduled and grown along with the Maryland series. Striped pattern varies depending on the growing environment - when grown in warmer greenhouse conditions, the white stripes are more dense/prominent, and when grown under cool outside/tunnel conditions, the purple is more dense/prominent.

Red Delilah (Group 2)

This fun and first-of-its-kind snapdragon produces unique red and white tube-patterned flower spikes on strong, sturdy stems - a great choice to make top-quality, novelty bouquets. This Group 2 variety can be scheduled and grown along with the Maryland series - it is suitable for greenhouse, field or garden cut flower production.

Trumpet Series (Group 1,2)

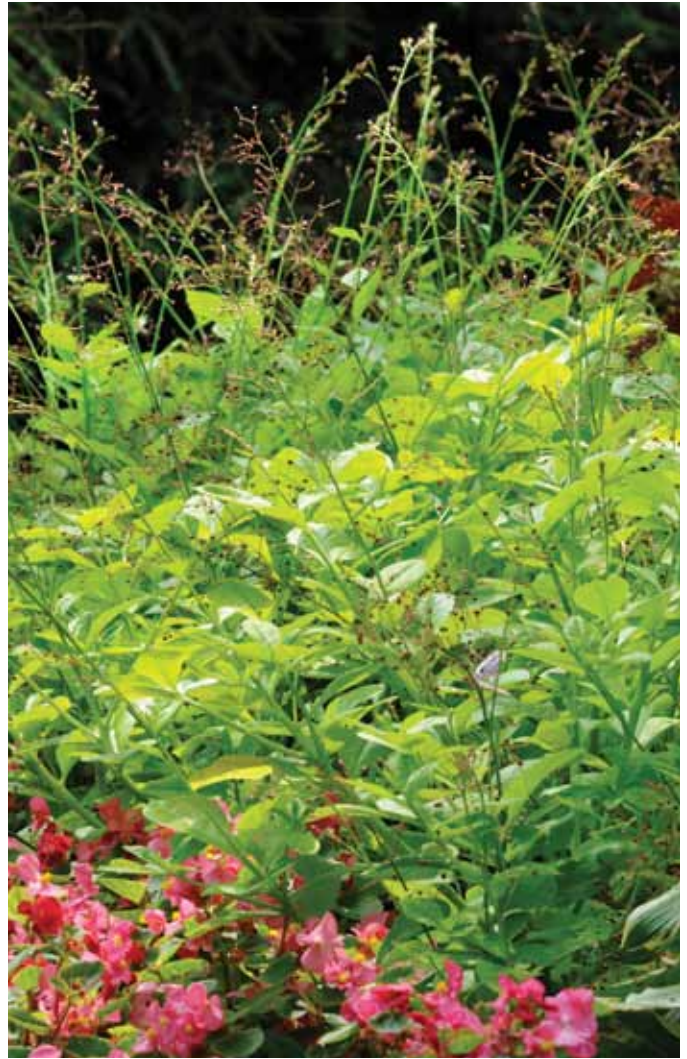
Plants produce some of the largest florets of any snapdragon, with a unique open-faced "trumpet" form. The slightly fragrant blooms are perfectly arranged along medium-long spikes. Stems are thicker and taller with more blooms than comparable snaps, making this a top-quality florist product. Good flower retention assures excellent ship ability. Well timed with the Maryland series.



Verde Talinum



Peek-A-Boo Spilanthes



Limón Talinum

SPILANTHES 🌻
Acmella oleracea

Peek-A-Boo

Height: 12 to 15 in./30 to 38 cm
Spread: 24 to 30 in./60 to 75 cm

Plug crop time: 4 to 5 weeks
Transplant to finish: 7 to 8 weeks

A Fantastic Foliage® selection.
Supplied as coated seed.

Unique accent plants show off intriguing, olive-shaped, 1-in./2.5-cm, golden yellow flowers with deep burgundy-red eyes on the long, pendulous stems. Foliage takes on a bronze-green tone in full sun.

STATICE
See **Limonium** in **Kieft Seed**, page 193.

STIPA
Pony Tails see **Grasses**, page 49.

STOCK
See **Matthiola**, page 74, 196.

STRAWFLOWER
See **Helichrysum**, page 53.

SUNFLOWER
See **Helianthus**, page 52, 188.

SUTERA
See **Bacopa**, page 26.

SWEET WILLIAM
See **Dianthus**, page 38.

TAGETES
See **Marigold**, page 69.

TALINUM
Talinum paniculatum

Limón

Height: 28 to 32 in./70 to 80 cm
Spread: 16 to 18 in./40 to 45 cm

Plug crop time: 5 weeks
Transplant to finish: Foliage 4 to 5 weeks (add 2 weeks to flower)

A Fantastic Foliage® selection.
Supplied as raw seed.

Mounded, bright lime-green foliage with airy inflorescences covered in tiny rose-pink flowers. Handles stress well, including heat and drought. When exposed to stressful conditions, the foliage shows off an even more vibrant chartreuse colour. Ideal for containers, hanging baskets and in-ground plantings, and works well as a fresh or dried cut flower.

Verde 🍃

Height: 32 in./80 cm
Spread: 24 in./60 cm

Plug crop time: 5 weeks
Transplant to finish: Foliage 4 to 5 weeks (add 2 weeks to flower)

A Fantastic Foliage® selection.
Supplied as raw seed.

Dark green-leaved companion to Limón is topped by small flowers that open hot pink and then form orange berries that ripen to dark red. The flexible flower spikes make it easy to grow and ship. This durable accent plant handles heat and stress well, including both low water and soggy conditions. Excellent for mixed containers, it also makes a long-lasting landscape option.

TANACETUM

See **Matricaria**, page 196.



Mixture



Clear Orange



White With Eye



Orange With Eye



Yellow With Eye

THUNBERGIA 
Thunbergia alata

Susie Series

Vine length: 6 to 8 ft./1.8 to 2 m

Plug crop time: 4 to 5 weeks

Transplant to finish: 4 to 5 weeks

Supplied as raw seed.

Distinctive flowering vine offers three clear and three black-eyed choices plus a formula mix. Susie can “pop” into flower in as little as 6 weeks, and is excellent in hanging baskets or window boxes. Good for colour packet and mail order markets.

Clear White (Not pictured)

Clear Yellow (Not pictured)



Burgundy



White



Deep Blue



Rose



Mixture



Blue & White



Magenta



Lemon Drop

TOMATO

See **Vegetables & Herbs**, page 154.

TORENIA

Torenia fournieri

Kauai Series

Height: 8 in./20 cm

Spread: 8 in./20 cm

Plug crop time: 5 to 6 weeks

Transplant to finish: 5 to 7 weeks

Supplied as pelleted seed.

Kauai's unsurpassed, colour-saturated varieties mean big sales appeal - and that's just the beginning of what makes this compact series great.

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

TROPAEOLUM

See **Nasturtium**, page 81.

VERBASCUM

Southern Charm see **Kieft Seed**, page 210.

quartz



VERBENA ☀️
Verbena x hybrida

Quartz Series

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

Plug crop time: 4 weeks
Transplant to finish: Spring 6 to 8 weeks, Summer 5 to 7 weeks

Standard varieties
Height: 10 to 12 in./25 to 30 cm
Spread: 12 to 14 in./30 to 35 cm

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

Supplied as raw and primed seed.

Quartz XP has a tight, 7-day flowering window; earlier and significantly better branching; and reduced internode length. Flowering 7 to 10 days faster than the original Quartz colours, slightly spreading, mounded plants have huge umbels of large florets over dark green foliage. Makes brilliant beds; trails over pots in mixed containers.

Purple XP has the largest florets of the series and slightly more vigour than other Quartz varieties.

Merlot Mixture contains a segregating mix of Burgundy, Purple and Red with Burgundy Eye and White.

New Waterfall Mixture Improved is a segregating mix of white, blue, violet-blue and purple. Now upgraded to XP.

XP: Much More than Improved

Count on XP varieties for precise, programmable, predictable growing. All XP varieties deliver a tight bloom window, prolific flowering, exceptionally uniform habit and strong plant vigour.



Quartz Burgundy XP Verbena



Quartz Burgundy With Eye XP Verbena



Quartz Carmine Rose XP Verbena



New Quartz Pink XP Verbena



Quartz Red With Eye XP Verbena



Quartz Scarlet XP Verbena



Quartz Blue Verbena



Quartz Silver XP Verbena



Quartz White XP Verbena



Quartz Merlot Mixture Verbena



Quartz Mixture XP Verbena



Quartz Purple XP Verbena *Fleuroselect Novelty*



New Quartz Waterfall Mixture XP Improved Verbena



Jams 'N Jellies American Pie Mixture Vinca



Jams 'N Jellies Blackberry
All-America Selections Winner

U.S. Plant Variety Protection Number 201100526



VERONICA
Blue Bouquet see **Kieft Seed**,
page 211.

VINCA 
Catharanthus roseus

F1 UPRIGHT VINCA

Jams 'N Jellies Series

Height: 14 to 16 in./35 to 40 cm
Spread: 10 to 12 in./25 to 30 cm

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

Supplied as raw seed.

2012 All-America Selections Winner Jams 'N Jellies Blackberry makes high-impact, all-season shows in Summer gardens and large planters.

- Unique colour offers great mix opportunities, including popular red, white and blue combinations.
- Durable, heat-loving and drought-tolerant plants meet the increasing demand for water-wise varieties.

American Pie Mixture contains Blackberry, red with white eye and pure white.



Rose Halo



Apricot



Blush



Icy Pink



Lavender Blue Halo



Punch



Pure White

F1 UPRIGHT VINCA

Titan® F1 Series

Height: 14 to 16 in./35 to 40 cm
Spread: 10 to 12 in./25 to 30 cm

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

Supplied as raw seed.

Titan is up to 2 weeks faster to flower than O.P. vincas, with exceptional uniformity, superior branching and the biggest flowers in all the top-selling colours.

- Robust plants, superior branching and the biggest flowers in the most popular colours - the only series with a true, Dark Red.
- More stress tolerant due to hybrid vigour: tolerates heat and drought and can withstand cooler and wetter conditions compared to open-pollinated types.
- Perfect for landscapes and containers of all types.
- Well-suited to packs, 4-in./10-cm and 6-in./15-cm pots.

Bubble Gum Mixture contains Blush, Icy Pink, Rose.

Clear Mixture contains Punch, Dark Red, Lilac, Burgundy, Pure White.

Cotton Candy Mixture contains Icy Pink, Lavender Blue.

Red And White Mixture contains Dark Red, Pure White.

Summer Breeze Mixture contains Lilac, Lavender Blue Halo, White.



New Burgundy Improved



Dark Red



Lilac



Polka Dot



Rose



New Rose Halo



Dark Red



Titan (left) surpasses even Pacifica XP in bloom size.



Bubble Gum Mixture



Clear Mixture



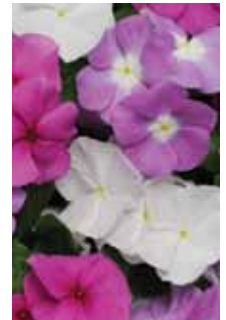
Cotton Candy Mixture



Mixture



Red And White Mixture



Summer Breeze Mixture

pacifica xp



Apricot
U.S. PVP Number 9800181



Burgundy Halo
*All-America Selections Winner,
Fleuroselect Quality Award*
U.S. PVP Number 200700272



Blush



Burgundy



Cherry Red Halo



Cranberry

Pacifica XP Series

Height: 10 to 14 in./25 to 35 cm
Spread: 6 to 8 in./15 to 20 cm

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

Supplied as raw seed.

Tight, 5 to 7-day flowering window and uniform, upright habit across all colours. The only vinca series with all the top-selling colours plus novelties, including the only true Red. Outstanding in hot, dry and sunny conditions and tolerant of cool, wet growing conditions. Very floriferous and well-branched plants show off bright flowers with an overlapping, fully rounded form that won't show gaps in hot temperatures.

XP: Much More than Improved

Count on XP varieties for precise, programmable, predictable growing. All XP varieties deliver a tight bloom window, prolific flowering, exceptionally uniform habit and strong plant vigour.



Dark Red
U.S. PVP Number 200600189



Deep Orchid



Icy Pink



Lilac



Magenta Halo
U.S. PVP Number 200500216



Orange



Polka Dot



Punch
U.S. PVP Number 9400248



Raspberry



Really Red
U.S. PVP Number 200600190



Rose Halo
U.S. PVP Number 200500218



White

Bold Mixture contains Cranberry, Really Red, Deep Orchid, Orange.

Halo Mixture contains White, Cherry Red Halo, Magenta Halo, Rose Halo, Burgundy Halo.

Lipstick Mixture contains Punch, Dark Red, Blush, Icy Pink.

Merlot Mixture contains Burgundy, Polka Dot, Deep Orchid, Burgundy Halo.

Mystic Mixture contains Burgundy, White, Lilac.



Bold Mixture



Halo Mixture



Lipstick Mixture



Mixture



Merlot Mixture



Mystic Mixture

mediterranean



TRAILING VINCA

Mediterranean Series

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

Spread: 20 to 30 in./50 to 75 cm

Plug crop time: 5 weeks

Transplant to finish (basket):

Spring 12 to 14 weeks, Summer
8 to 10 weeks

Supplied as raw seed.

The only full series of trailing vinca offering a true red, Mediterranean XP varieties fill in fast with terrific coverage. XP genetics deliver a tight, 5 to 7-day flowering window, luxurious spreading habit, larger flowers and reliable germination. Low water needs.

Dark Red XP is the same deep red as Pacifica Dark Red XP. Slightly more mounded habit than others in the series.

Red XP has the same true red colour as Pacifica Really Red XP. Slightly more mounded habit than others in the series.

Lipstick Mixture XP contains Strawberry, Dark Red, Rose, White.

Red XP

XP: Much More than Improved

Count on XP varieties for precise, programmable, predictable growing. All XP varieties deliver a tight bloom window, prolific flowering, exceptionally uniform habit and strong plant vigour.



Mixture XP



Lipstick Mixture XP



Red XP U.S. PVP Number 200900081



Dark Red XP U.S. PVP Number 200900043



Hot Rose XP U.S. PVP Number 200900084



Strawberry XP U.S. PVP Number 200900083



Peach XP U.S. PVP Number 200900080



Rose XP U.S. PVP Number 200900082



Rose Halo XP



White XP U.S. PVP 200900053



Deep Rose



Deep Orchid



Lilac U.S. PVP Number 9800182



Polka Dot

F1 VIOLA 🌻🌻
Viola cornuta

Sorbet® Series 🚩

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

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

Supplied as raw and primed seed.

Sorbet XP genetics deliver a uniform plant habit and the tightest bloom window, so you send the best-looking violas to retail.

- Plants cover the soil at flowering, with more blooms on every plant and less stretching.
- Fewer PGRs are needed, holdability is superior and shrink is cut way back.
- F1 vigour assures greater germination, earliness, and excellent plug and garden performance.
- Early-blooming Sorbet remains compact in both heat and cold, making it a standout performer in Spring and Autumn.
- Free-flowering plants perform across a wide range of climatic conditions and have excellent overwintering.
- Includes a wide range of clear colours, which lets landscapers make custom mixes.

XP: Much More than Improved

Count on XP varieties for precise, programmable, predictable growing. All XP varieties deliver a tight bloom window, prolific flowering, exceptionally uniform habit and strong plant vigour.



White XP



Yellow XP



Orange XP



Lavender Vein XP



Purple Ice XP



Raspberry XP



Orchid Rose Beacon XP



Purple XP



Beaconsfield XP



Violet Beacon XP



Blue Blotch XP



Blackberry XP



**New Denim
Jump Up XP**



White Jump Up XP
Formerly Coconut Duet XP.



Lemon Jump Up XP
Formerly Lemon Royale XP.



Yellow Jump Up XP
Formerly
Yellow Duet XP.



Yellow Blotch XP



Pink Halo XP



Yellow Frost XP



Purple Face XP



Marina XP



Delft Blue XP
Fleuroselect Gold Medal





Beaconberry Mixture XP



Blackberry Sundae Mixture XP



Blueberry Frost Mixture XP



Citrus Mixture XP



Harvest Mixture XP



Select Mixture XP



Mixture XP



Orchidberry Frost Mixture XP

Sorbet XP mixtures:

Beaconberry Mixture XP contains Beaconsfield XP, Orchid Rose Beacon XP, Violet Beacon XP.

Blackberry Sundae Mixture XP contains Coconut Duet XP, White XP, Purple XP, Purple Face XP.

Blueberry Frost Mixture XP contains White XP and Violet XP plus Marina, not available separately.

Citrus Mixture XP contains Orange XP, Yellow XP, White XP.

Harvest Mixture XP contains Orange XP, Purple XP, Yellow XP.

Lemon Parfait Mixture XP contains Lemon Royale XP, White XP, Yellow XP.

Orchidberry Frost Mixture XP contains Lavender Vein XP, Orchid Rose Beacon XP, White XP.

Select Mixture XP is a mix of bolder XP colours.



Lemon Parfait Mixture XP



Banana Cream



Lemon Chiffon



Carmine Rose



Lilac Ice



YTT (Yesterday, Today & Tomorrow)



Icy Blue



Coconut Swirl



Lemon Blueberry Swirl



Peach Melba



YTT Babyface



Sunny Royale



Pink Wing



Antique Shades



Blueberry Cream



Jump Up Mixture



Primrose Babyface



Ruby & Gold Babyface



Midnight Glow



Orange Duet



Ocean Breeze Mixture



Purple Duet



Black Duet



New Red Blotch



New Black Delight Improved

Sorbet standard mixtures:

Babyface Mixture (Not pictured)

Jump Up Mixture contains primarily Orange Duet and Coconut Duet, with a little Purple Duet and Black Duet.

Ocean Breeze Mixture contains Blue Babyface, Coconut Swirl, White Babyface, Marina Babyface.



Skippy Yellow



Skippy Lemon Yellow

Skippy Lilac Ice

Skippy Orange

Skippy Pastel Blue



Skippy Purple

Skippy Purple Bright Face

Skippy Ruby & Gold

Skippy White



Skippy Yellow-Purple Wing

Skippy XL Blue-Yellow

Skippy XL Deep Blue Blotch

Skippy XL Purple Duet



Skippy Beacon Yellow

Skippy Frosted Face

Skippy Frosted Lemon Blotch

Skippy Frosted Morn



Skippy Icebird

Skippy Lavender

Skippy Lavender Bright Eye

Skippy Lavender Yellow Face



Skippy XL Plum-Gold
All-America Selections Winner

Skippy XL Red-Gold
All-America Selections Winner



Skippy Mixture

Skippy Series

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

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

Supplied as raw and primed seed.

High weather tolerance, strong heat tolerance and good Winter hardiness. Compact, well-branched and uniform plants are early-flowering in Autumn and Spring, and remain in bloom for a long period. XL varieties produce extra-large, 1.5-in./3-cm flowers.

Shangri-La Marina

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

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

Supplied as primed and raw seed.

Shangri-La's vigorous, mounding habit fills baskets, landscapes and planters with lots of colour in a little time!

- Early-blooming and free-flowering plants have excellent overwintering ability for great multi-season performance across a wide range of climatic conditions.
- Good for both late Autumn and early Spring programs.
- Work well in 4-in./10-cm pots and in 10-in./25-cm baskets with 4 plants per pot.

Bred by Tokita Seed Co., Ltd.



Shangri-La Marina Viola All-America Selections Winner



State Fair Mixture Zinnia



Microla Purple Yellow Wing Viola



Pierrot Viola



Valentine Viola



Star Orange Zinnia



Star White Zinnia



Star Starbright Mixture Zinnia

Microla Series

Height: 6 in./15 cm
Spread: 6 in./15 cm

Plug crop time: 4 weeks
Transplant to finish: 3 to 6 weeks
Supplied as raw seed.

Compact, early-flowering plants produce miniature blooms over a long season. Excellent for year-round, high-density production.

White Violet Wing (not pictured)
Pure Yellow (not pictured)

Pierrot

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

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

Supplied as raw and primed seed.

Frost-tolerant, very compact, small-leaved plants produce abundant 1.5-in./3 cm flowers.

Valentine

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

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

Supplied as raw and primed seed.

Very compact and uniform, small-leaved, large flowered plants are frost tolerant and well-suited to year-round production.

VIOLA 🌻🌻
Viola sp.

Rain Collection see page 91.

ZINNIA 🌻

Zinnia angustifolia

Star Series

Height: 14 in./35 cm
Spread: 8 in./20 cm

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

Supplied as raw seed.

Single, star-shaped flowers up to 2 in./5 cm across, on plants with a looser, more informal look. Tolerates heat, humidity and drought; vigorous enough to fill a bed, hanging basket or mixed container quickly. Resistant to *Alternaria* and powdery mildew.

Star Gold (not pictured)

ZINNIA 🌻

Zinnia violaeae
(Syn. *Zinnia elegans*)

State Fair Mixture

Height: 3 to 4 ft./0.9 to 1.2 m
Spread: 12 to 14 in./30 to 35 cm

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

Supplied as raw seed.

Tetraploid mix with very large flowers in bright scarlet, gold, lavender, purple, orange, pink, red and yellow.

zahara®

Big Blooms, Bold Colours

With big, bright blooms and disease resistance, all-around winner Zahara assures big retail impact and carefree, season-long shows.





New Cherry



Coral Rose U.S. PVP Number 200700357



Fire U.S. PVP Number 201000090



New Sunburst Fleuroselect Gold Medal



Scarlet U.S. PVP Number 200700356



Starlight Rose All-America Selections Winner, Fleuroselect Novelty



Yellow U.S. PVP Number 200700355



New White Improved U.S. PVP Applied For



Bonfire Mixture



New Mixture Improved



Raspberry Lemonade Mixture

ZINNIA 🌻

Zinnia marylandica

Zahara® Series 🏆🏆

Height: 12 to 18 in./30 to 45 cm

Spread: 12 to 18 in./30 to 45 cm

Plug crop time: 3 weeks

Transplant to finish: Spring 8 to 9 weeks, Summer 5 to 6 weeks

Supplied as raw and coated seed.

With big blooms and superior disease resistance, all-around winner Zahara assures big retail impact and carefree, season-long shows.

- Series has 20% larger flowers than comparable types.
- Unique colour choices, including the first Yellow and Scarlet and the first well-balanced Mixture in this type of zinnia.
- Outstanding performance in sunny, hot and dry conditions.
- Very low water needs - an ideal crop for areas with water restrictions.

Coral Rose has colour that varies by environment.

Fire's bright hue intensifies outdoors.

Scarlet's colour deepens outdoors in full sun.

Starlight Rose has colour pattern that varies by environment; best colour from high light, good fertilization and cool nights.

Bonfire Mixture contains Scarlet, Fire, Yellow.

Raspberry Lemonade Mixture contains Coral Rose, Yellow, Starlight Rose.

double zahara





Cherry All-America Selections Winner, Fleuroselect Novelty U.S. PVP Number 200700335



Fire All-America Selections Winner, Fleuroselect Gold Medal U.S. PVP Number 200700336



Strawberry Fleuroselect Novelty Mark U.S. PVP Number 200700336



Duo Mixture

ZINNIA 🌻

Zinnia marylandica

Double Zahara Series 🚩

Height: 16 to 20 in./40 to 50 cm

Spread: 16 to 20 in./40 to 50 cm

Plug crop time: 3 weeks

Transplant to finish: Spring 8 to 9 weeks, Summer 5 to 6 weeks

Supplied as raw and coated seed.

Our fully double zinnia series delivers such outstanding performance that all three varieties won Fleuroselect awards!

- The only true double zinnia series on the market.
- Bigger flowers than the competition for more colour show.
- Outstanding disease tolerance and low water needs.
- Superior all-season performance in beds and planters.

Cherry and Fire varieties show a lighter centre as the flowers age in low light or high night temperatures.

Duo Mixture contains Cherry and Fire.

vegetables and herbs



'Purple Ruffles' All-America Selections Winner



'Sweet Dani' Lemon All-America Selections Winner U.S. Plant Variety Protection Number 9500027

BASIL 🌻

Ocimum basilicum

'Purple Ruffles'

Height: 18 to 24 in./45 to 60 cm
Spread: 18 to 24 in./45 to 60 cm

Plug crop time: 4 to 5 weeks
Plug to finish: 2 to 3 weeks

Supplied as raw seed.

Ornamental variety produces fragrant, ruffled, deep purple leaves; approximately 5% of the plants have purple/green leaves with mild anise flavour.

vegetables and herbs



New 'Try Basil' Basil

'Sweet Dani' Lemon Basil

Height: 22 to 24 in./55 to 60 cm
Spread: 18 to 24 in./45 to 60 cm

Plug crop time: 4 to 5 weeks
Plug to finish: 2 to 3 weeks

Supplied as raw seed.

Produces up to 75% more total essential oils than standard lemon basil varieties, making it quite flavourful and fragrant. Vigorous plants exhibit excellent garden performance.

New 'Try Basil' Mixed Pellet Basil

Height: 24 to 30 in./60 to 75 cm
Spread: 12 to 16 in./30 to 40 cm

Plug crop time: 4 to 5 weeks
Plug to finish: 2 to 3 weeks

Supplied as multi-seed pellets.

Provides just the right amount of seed for plugs or pots –an easy and economical way to grow this popular herb!

- Each multi-seed herb pellet produces three varieties of basil – Genovese, serrated and dark red.
- Just one pellet fills a 4-in./10-cm. pot fast, with no seed broadcasting or scoops across the soil.
- Healthy, uniform product ships well and looks great at retail.

Offer our veggies and herbs for even the smallest gardens!

Any sunny space can become a veggie or herb garden with our lineup of fresh, flavourful and healthy varieties. Our breeding team currently has a special interest in developing home garden varieties that need much less room to flourish, while growing fruit with super taste and quality, earlier harvests and longer harvest periods.

Tried-and-proven 'Patio Snacker' lets you grow and sell a cuke that thrives in patio planters. Take it to a premium SKU when you ship in a large pot with trellis...fruit already on!



Doug Lemley
Product Manager - Vegetable Crops

Our SimplySalad lineup lets shoppers take home ready-to-savor greens...and then harvest over and over.

Imagine the satisfaction (and repeat sales!) when they reap lots of 'Homeslice' tomatoes from a high-rise balcony container.



Scan or go to panamseed.com/homeslice



'Patio Snacker' Cucumber

F1 SLICING CUCUMBER 🌞
Cucumis sativus

'Patio Snacker'

Spread: 3 to 5 ft./90 cm to 1.5 m

Plug to finish: 3 weeks (direct sow)

Fruit size: 1.5 in./4 cm wide x 8 in./20 cm long

Days from sowing to harvest: 53
Days from transplant to ripe fruit: 39

Supplied as raw seed.

Controlled yet vigorous variety produces short, branching vines. Can be sold in large container with small trellis; works well in pack/pot programs. Dark green-skinned fruit has good flavour, crunchy texture, non-bitter peel. Free-flowering, monoecious plants are high-yielding with continuous harvests. Direct sow into final container.



Fernleaf Dill All-America Selections Winner

DILL 🌞
Anethum graveolens

'Fernleaf'

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

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

Supplied as raw seed.

Dwarf, compact plant does not need staking and will not topple over, making it perfect for patio containers. Can also be grown in the garden and used for traditional dill culinary purposes. Will flower later, allowing for a long harvest season and an extended ornamental period.



'Cajun Belle' Hot All-America Selections Winner



'Sweet Heat' Hot



'La Bomba' Jalapeño

PEPPER 🌞

Capsicum annuum

HOT PEPPER

'Cajun Belle'

Height: 24 in./60 cm

Spread: 24 in./60 cm

Plug crop time: 5 to 6 weeks

Plug to finish: 4 to 7 weeks (no fruit), 7 to 9 weeks (green fruit)

Days from transplant to ripe fruit: 60

Supplied as raw seed.

Award-winning variety produces bell peppers that are 3 in./7 cm long by 2 in./5 cm wide. The mildly spicy taste is just right for fresh eating and salsa, and the peppers can be enjoyed green or red.

'Sweet Heat' F1

Height: 10 in./25 cm

Spread: 14 in./36 cm

Plug crop time: 5 to 6 weeks

Plug to finish: 4 to 7 weeks (no fruit), 7 to 9 weeks (green fruit)

Days from transplant to ripe fruit: 56

Supplied as raw seed.

One of the earliest peppers to bear fruit, compact and bushy 'Sweet Heat' lets you ship larger containers with developing fruit on the plant. The 3 to 4 in./8 to 10 cm-long by 1 to 1.5 in./2.5 to 4 cm-wide peppers are sweet and mildly spicy. Can be harvested green or red.

F1 JALAPEÑO PEPPER

'La Bomba'

Height: 18 to 22 in./45 to 55 cm

Spread: 12 to 18 in./30 to 45 cm

Plug crop time: 5 to 6 weeks

Plug to finish: 4 to 7 weeks (no fruit), 7 to 9 weeks (green fruit)

Fruit size: 1 in./2.5 cm wide x 2.75 in./6.5 cm long

Days from transplant to ripe fruit: 56 to green harvest

Supplied as raw seed.

Strong, upright plants have a sturdy main stem, allowing for successful shipping and resistance against rough weather. Large, dark green fruit has thick walls and little to no etching. Good flavour with medium heat. Resists Potato Virus Y. Suited to gardens and planters.



'Cute Stuff Gold' Sweet Bell

F1 SWEET BELL PEPPER

'Cute Stuff Gold'

Height: 18 to 24 in./45 to 60 cm

Spread: 12 to 20 in./30 to 50 cm

Plug crop time: 5 to 6 weeks

Plug to finish: 4 to 7 weeks (no fruit), 7 to 9 weeks (green fruit)

Fruit size: 3 x 2.5 in./8 x 6 cm

Days from transplant: 56 to ripe fruit, 42 days for green fruit

Supplied as raw seed.

Excellent-tasting sweet mini-bell matches 'Cute Stuff Red' in every way including timing, so you can grow and ship them together. Apple-shaped, green-to-gold peppers are perfect for fresh eating and stuffing. High-yielding plants produce fruit continuously through the season.



'Cute Stuff Red' Sweet Bell

'Cute Stuff Red'

Height: 18 to 24 in./45 to 60 cm

Spread: 12 to 20 in./30 to 50 cm

Plug crop time: 5 to 6 weeks

Plug to finish: 4 to 7 weeks (no fruit), 7 to 9 weeks (green fruit)

Fruit size: 3 x 2.5 in./8 x 6 cm

Days from transplant: 56 to ripe fruit, 42 days for green fruit

Supplied as raw seed.

Green-to-red, apple-shaped mini-bell variety is perfect for fresh eating or stuffing. Produces up to three times more than other bell peppers, with an excellent sweet taste.



(Left to Right) **New SimplyHerbs Sage**, **New SimplyHerbs Dill**, **New SimplyHerbs Basil**, **New SimplyHerbs Parsley** and **New SimplyHerbs Thyme**

SINGLE-SPECIES MULTI-SEED PELLETS 🌞

New SimplyHerbs

Plug crop time: 2 to 4 weeks

Plug to finish: 3 to 5 weeks

Supplied as multi-seed pellets.

Just one plug gives a nice, fast fill – the easy and economical way to grow the most popular herb classes!

- No more seed broadcasting or scoops across the soil, reducing the risk of disease.
- Uses less seed than oversow/multisow methods and can be direct-sown.
- Produces healthy, uniform, better-looking plants to send to retail.
- Plants perform well and produce excellent yields.
- Great for 4-in./10-cm programs.

New SimplyHerbs Basil

Ocimum basilicum

Finished height: 24 to 30 in./60 to 75 cm

Finished spread: 12 to 16 in./30 to 40 cm

Days from transplant to harvest: 28

Each pellet contains 8 to 10 seeds of *Ocimum basilicum* (Sweet Basil).

New SimplyHerbs Dill

Anethum graveolens

Finished height: 12 to 24 in./30 to 60 cm

Finished spread: 10 to 16 in./25 to 40 cm

Days from transplant to harvest: 28

Each pellet includes 7 to 9 seeds of *Anethum graveolens*.

New SimplyHerbs Parsley

Petroselinum crispum

Finished height: 15 to 18 in./38 to 45 cm

Finished spread: 12 to 18 in./30 to 45 cm

Days from transplant to harvest: 28

USDA Hardiness Zones: 3 to 11 (-40 to 40°F/-38 to 5°C minimum temperature)

Each pellet includes 7 to 9 seeds of *Petroselinum crispum* (Large-Leaf Italian Flat Parsley).

New SimplyHerbs Sage

Salvia officinalis

Finished height: 18 to 24 in./45 to 60 cm

Finished spread: 14 to 24 in./35 to 60 cm

Days from transplant to harvest: 28

USDA Hardiness Zones: 4 to 8 (-30 to 20°F/-31 to -9°C minimum temperature)

Each pellet includes 6 to 10 seed of *Salvia officinalis*.

New SimplyHerbs Thyme

Thymus vulgaris

Finished height: 12 to 18 in./30 to 45 cm

Finished spread: 12 to 18 in./30 to 45 cm

Days from transplant to harvest: 42

USDA Hardiness Zones: 5 to 9 (-20 to 30°F/-26 to -4°C minimum temperature)

Each pellet includes 8 to 14 seeds of *Thymus vulgaris* (Winter Thyme).



SimplySalad Global Gourmet Mixture

SimplySalad City Garden Mixture

SimplySalad Alfresco Mixture

MULTI-SPECIES MULTI-PELLETS 🌱🌱

SimplySalad Series

Height: 12 in./30 cm
Spread: 12 in./30 cm

Plug crop time: 2 to 3 weeks
Plug to finish: 2 to 4 weeks

Supplied as multi-species multi-pellet, with 3 or more seedlings per pellet.

The first multi-species multi-pellet for salad, SimplySalad makes a tasty, well-balanced mix of greens.

- Can be grown in 4 to 6-in./10 to 15-cm pots and colour bowls, then enjoyed as both a colourful, mixed-texture ornamental and a delicious, nutritious edible.
- On the bench, SimplySalad is easy to produce with a very quick crop time, perfect for early Spring and Autumn programs.
- Multi-pellets are efficient to sow in plugs or direct to the final container, ensuring a well-balanced mix with one sowing. Sowing directly into final container can cut a week or more off the crop time.
- Produces more vivid colours when finished cool.
- For the consumer, SimplySalad performs best in full sun in cool weather, or partial shade as temperatures warm up.

Alfresco Mixture contains red and green leaf lettuces with arugula, endive and radicchio.

City Garden Mixture contains red and green lettuces.

Global Gourmet Mixture contains red and green leaf lettuces with spicy Asian greens.



Multi-pellets produce a well-balanced salad mix with one sowing.



Fresca Strawberry



'Micro-Tom' Tomato



'Topsy Tom' Tomato



'Tumbler' Tomato

STRAWBERRY 🌞
Fragaria x ananassa

Fresca

Height: 3 to 4 in./7 to 10 cm
Spread: 10 to 12 in./25 to 30 cm
Plug crop time: 4 to 5 weeks
Plug to finish: 12 to 13 weeks
Days from transplant to ripe fruit: 85
Supplied as raw seed.
 Performs well in 10-in./25-cm baskets.

TOMATO 🌞
Lycopersicon esculentum (Solanum lycopersicum)

CHERRY TOMATO

'Topsy Tom' F1

Height (unstaked): 12 to 18 in./30 to 45 cm
Spread (untrellised): 36 to 48 in./90 cm to 1.2 m
Plug crop time: 4 to 5 weeks
Plug to finish: 6 to 8 weeks

Fruit size: 1 x 1.25 in./2.5 x 2.75 cm; 0.6 oz./16.7 g
Days from transplant to ripe fruit: 50

Supplied as raw seed.

Perfect for "upside down" tomato planters as well as traditional planters and gardens. Compact, productive, mounded plants have pliable stems that ship well, hold the fruit, and won't break in the wind. Well-branched, semi-determinate plants continue to put out new branches with many trusses of 5 to 9 split-resistant fruit. Very early, high yields of sweet, bite-sized fruit with "big tomato" flavour!

CONTAINER TYPE TOMATO

'Micro-Tom'

Height: 12 to 16 in./30 to 40 cm
Plug crop time: 4 to 5 weeks
Plug to finish: 6 to 8 weeks
Days from transplant to ripe fruit: 50

Supplied as raw seed.

Novelty variety produces an extremely dwarf plant with very compact vines covered with sweet-tasting fruit. Well-suited to 3 to 4-in./7 to 10-cm pot production.



New 'Homeslice' Tomato

'Tumbler' F1

Height: 3 to 6 ft./0.9 to 1.8 m

Plug crop time: 4 to 5 weeks
Plug to finish: 6 to 8 weeks

Days from transplant to ripe fruit: 49

Supplied as raw seed.

A superior variety for hanging baskets and containers, with a graceful, cascading habit. Prolific plants produce up to 6 lbs./2.7 kg of cherry-type tomatoes, 1.25 in./3 cm in diameter. Extra-early variety is very sweet and tasty.

F1 COMPACT SLICER TOMATO

New 'Homeslice'

Height: 18 to 24 in./45 to 60 cm
Spread: 24 to 36 in./60 to 90 cm

Plug crop time: 4 to 5 weeks
Plug to finish: 6 to 8 weeks

Fruit size: 5 to 6 oz./140 to 200 g
Days from transplant to ripe fruit: 63

Supplied as raw seed.

Now you can grow an exceptional slicer tomato on a compact plant. Vigorous, determinate plants produce early yields of bountiful harvests. Perfect for patio containers or small gardens.



Easy Pick Gold Zucchini



Easy Pick Green Zucchini

F1 ZUCCHINI 🌻

Cucurbita pepo

Easy Pick Collection

Height: 36 to 52 in./90 cm to 1.3 m
Spread: 36 to 52 in./90 cm to 1.3 m

Plug crop time: 4 to 5 weeks (direct sow)

Fruit size: Harvest from a very small size, up to 10-in./25-cm fruit

Days from sowing to harvest: 46

Days from transplant to ripe fruit: 32

Supplied as raw seed.

Open habit with nearly no spines on the petioles, for easy and continuous harvests with no pain. Simply twist to pick - less scarring and clean harvest mean longer shelf life. Produces smooth-textured zucchini in matched green and gold-skinned varieties that can be grown and marketed together. Direct sow into final container.

index



New Cool Wave® Purple and Golden Yellow Pansy (see page 4)



New Mighty Mosaic Coleus (see page 33)



New Trumpet Pink Snapdragon (see page 126)



New Fuseables Precision Multi-Pellets (see page 12)



New Akila® White Improved Osteospermum (see page 82)



New 'Homeslice' Compact Slicer Tomato (see page 155)

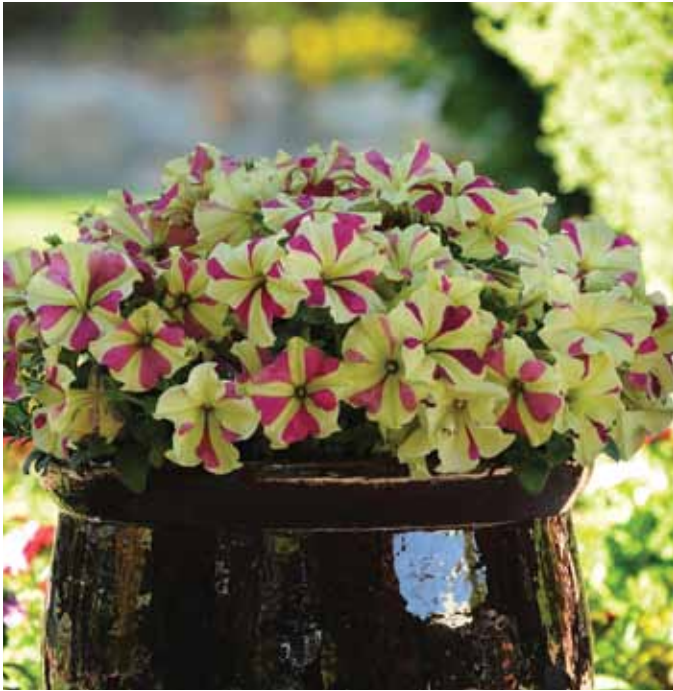
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New Sophistica® Lime Bicolor Improved Petunia (See page 97)



New Premium Perennial Combos
(see page 157)



New Dalmatian Mix Digitalis
(see page 177)



New Revolution Select Mix Gerbera
(see page 184)



New Sparkle White Gaura
(see page 183)

Circle of Life EcoIndex

Reduce inputs to save money and grow sustainably. Look for the EcoIndex symbols on varieties throughout the catalogue.

Reduce Energy



Identifies products growers can finish successfully with a proven cool-grown, low-energy input program

Reduce Water



Identifies products that deliver superior performance in a landscape/consumer setting under a restricted watering regime

Reduce Chemicals



Identifies products which reduce or eliminate the need for costly and often hazardous chemicals

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It's Divine

The disease-resistant
impatiens from seed

- 1** Economical in packs
- 2** Highly resistant to impatiens downy mildew
- 3** Easy to grow

See page 54 for more information.

Divine Orange Green Leaf New Guinea Impatiens

PanAmerican Seed®

2014 Catalogue



seed

KieftSeed

Kieft Seed

Perennial Favourites and More

Welcome to Kieft Seed, your complete lineup of unique seed perennials, cut flowers and pot crops. You can count on Kieft for innovative breeding and superior quality, backed by reliable, personalized service.

New for this catalogue: the exciting Lotti Arabis series and award-winning Sparkle White Gaura. We also added must-grow varieties to our popular Dalmatian Digitalis and Revolution Gerbera series.

Proven. Programmable. Perennial Combos.



Coreopsis Early Sunrise and
Delphinium Diamonds Blue

It's time for something different in mixed combos! All-perennial combos feature first-year-flowering, mid-season varieties, perfect for Summer sales. Each combo has been tested in a range of climates worldwide, so you can count on fast fill, peak performance and eye-catching colour.

Visit www.kieftseed.com for general guidelines on producing your perennial mixed combos and complete culture information on individual varieties.

premium perennial combos



Agastache Pink Pop, Dianthus Dash Pink and Lavender Ellagance Pink

You asked for "out of the box" combos...Kieft answered!

Growers and retailers around the globe were constantly looking to expand their combo programs with something beyond traditional annual mixed containers. We took up that challenge and got to work creating combos using only our seed perennials.

The criteria: each one had to work together in production, in growing habit and in aesthetic appeal.

The process: repeated trialing at multiple locations around the world.



The result: the perennial combos you see on these pages are proven to deliver elegant and textured Summer containers deserving of a premium price...every one supported by comprehensive growing tips.

The future: we're hard at work today developing even more proven, programmable perennial combos for you!



Cor de Jong
Global Product Manager

Scan or go to kieftseed.com/catalogs



Gaillardia Mesa Bright Bicolor and Anemanthele Sirocco



Dianthus Dynasty Red, Dianthus Dash White and Lavender Ellagance Purple



Juncus Blue Arrows, Stachys Byzantia Silver and Dichondra Silver Falls



Agastache Pink Pop, Dianthus Amazon Neon Cherry and Lavender Ellagance Purple



Coreopsis Early Sunrise and Lavender Ellagance Purple



Digitalis Dalmatian Peach and Purple



Acanthus mollis



Pink Pop Agastache



Red Sea Ageratum



Alma Alchemilla



Everest Blue Ageratum



Irish Silk Alchemilla

ACANTHUS 🌞
Acanthus mollis

Height: 40 in./1 m
Spread: 32 to 36 in./80 to 90 cm

Plug crop time: 8 to 10 weeks
Transplant to finish: 36 to 40 weeks

USDA Hardiness Zones: 6 to 10 (-10 to 30°F/-23 to -1°C minimum temperatures)

Supplied as raw seed.

Impressive plant produces large rose and white spikes over attractive classic foliage. Good for borders, patio planters, or as a specimen plant.

AGASTACHE 🌞
Agastache pallidiflora ssp. *neomexicana*

Pink Pop

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

Plug crop time: 6 to 7 weeks
Transplant to finish: 7 to 10

USDA Hardiness Zones: 7 to 10 (0 to 30°F/-18 to -1°C minimum temperatures)

A First-Year-Flowering Perennial. Supplied as raw seed.

Highly uniform, with excellent basal branching and compact habit. Requires no vernalization and has a short production period. Tender perennial has long-flowering, fragrant pink spikes. Recommended sowing time is March to May.

AGERATUM 🌞🌞
Ageratum houstonianum

Everest Blue

Height: 26 in./65 cm
Spread: 8 to 12 in./20 to 30 cm

Plug crop time: 4 to 5 weeks
Transplant to finish: 12 to 15 weeks

Supplied as pelleted seed.

Low-energy crop is suitable for professional greenhouse and outdoor production; also works as a home garden cut flower. Delivers strong, true blue colour and season-long flowering in landscapes. Can be pinched to produce uniform, sturdy stems and a wider plant spread.

Red Sea

Height: 26 in./65 cm
Spread: 8 to 12 in./20 to 30 cm

Plug crop time: 4 to 5 weeks
Transplant to finish: 12 to 15 weeks

Supplied as pelleted seed.

First red Ageratum for cut flower use. Flowers open bright red and darken to purple-red. Low-energy crop is suitable for professional greenhouse and outdoor production. Best for April to October sales. Three-week flowering period with good vase life. Also good for backyard cut flower programs.

ALCHEMILLA 🌞🌞
Alchemilla erythropoda

Alma

Height: 6 to 8 in./15 to 20 cm
Spread: 12 to 14 in./30 to 35 cm

Plug crop time: 8 to 10 weeks
Transplant to finish: 24 to 38 weeks

USDA Hardiness Zones: 3 to 8 (-40 to 10°F/-40 to -12°C minimum temperatures)

Supplied as TunedSeeds.

Compact, small-leaved, red-stemmed Alchemilla produces attractive blue-green foliage with yellow flowers in Spring. Combines good basal branching with a strong, sturdy habit. Flowers 2 to 3 weeks earlier than *Alchemilla mollis* for early Spring sales. Recommended sowing times are December to January or June to July.

ALCHEMILLA 🌞🌞
Alchemilla mollis

Irish Silk

Height: 12 to 14 in./30 to 35 cm
Spread: 14 to 16 in./35 to 40 cm

Plug crop time: 8 to 10 weeks
Transplant to finish: 24 to 38 weeks

USDA Hardiness Zones: 3 to 8 (-40 to 10°F/-40 to -12°C minimum temperatures)

Supplied as raw seed.

Large, well-defined, very ornamental leaves of mid-green with trusses of small yellow flowers in Spring. Well-filled plants with dense foliage are ideally suited for borders or early-season mixed containers. Recommended sowing times are December to January or June to July.



Luna Alyssum



Madonna Anemone



Casablanca Ammi



Graceland Ammi *Fleuroselect Quality Award*

ALYSSUM ☀️

Alyssum montanum
(Madwort)

Luna

Height: 4 to 6 in./10 to 15 cm
Spread: 8 to 12 in./20 to 30 cm
Plug crop time: 6 to 8
Transplant to finish: 10 to 12

USDA Hardiness Zones: 4 to 8 (-30 to 10°F/-34 to -12°C minimum temperatures)

A First-Year-Flowering Perennial.
Supplied as raw seed.

Compact alpine variety produces grey-green foliage and masses of bright yellow flowers. 1 to 2 weeks earlier than Mountain Gold when grown as a biennial. Can also be grown warm like an annual bedding plant. Sow July to August for Spring/Summer flowering the following year, or February to May if scheduled as a first-year-flowering perennial.

LOBULARIA MARITIMA

See **PanAmerican Seed**, page 21.

AMMI ☀️

Ammi majus

Graceland

Height: 40 to 55 in./1 to 1.4 m
Spread: 8 to 10 in./20 to 25 cm
Plug crop time: 4 to 6 weeks
Transplant to finish: 8 to 10 weeks

Supplied as raw seed.

Produces more quality stems, an easier harvest and a better return per square foot/metre. Healthy, dark green foliage means less cleaning during harvest. The uniform growth prevents side shoots overgrowing the main umbel, resulting in a more manageable height.

AMMI ☀️

Ammi visnaga

Casablanca

Height: 40 to 50 in./1 to 1.25 m
Spread: 8 to 10 in./20 to 25 cm
Plug crop time: 4 to 6 weeks
Transplant to finish: 10 to 12 weeks

Supplied as raw seed.

Strong, straight stems with no side shoots for easier harvest and better return per square foot/metre. Very uniform, low-energy crop can be grown indoors and outdoors. Larger, more rounded umbels than *Ammi majus*, with clear white flowers.

ANEMANTHELE

See **Grasses** in PanAmerican Seed, page 46.

ANEMONE ☀️

Anemone sylvestris (Snowdrop Anemone)

Madonna

Height: 8 to 10 in./20 to 25 cm
Spread: 6 to 8 in./15 to 20 cm
Plug crop time: 8 to 10 weeks
Transplant to finish: 26 to 38 weeks

USDA Hardiness Zones: 4 to 7 (-30 to 0°F/-34 to -18°C minimum temperatures)

Supplied as clean seed.

Large, white 'Snowdrop' flowers on strong stems that stand about 2 in./5cm above the plant. Very popular variety is a strong Spring seller. Sow May to June for Spring sales the following year.

ANTIRRHINUM

See **Snapdragon** in PanAmerican Seed, page 118.

songbird



Bluebird



Cardinal



Goldfinch



Robin



Nightingale



Dove RHS Award of Garden Merit

AQUILEGIA (COLUMBINE) 🌸
Aquilegia x hybrida

Songbird F1 Series

Height: 11 to 18 in./28 to 40 cm;
varies by variety

Spread: 10 to 14 in./25 to 35 cm

Plug crop time: 6 to 8 weeks

Transplant to finish: 22 to 28 weeks

USDA Hardiness Zones: 3 to 9 (-40 to 20°F/-40 to -7°C minimum temperatures)

A First-Year-Flowering Perennial. Supplied as raw seed.

Popular series is easy and economical to grow - with true, non-fading colours in late Spring and early Summer.

- Well-adapted for 6-in./15-cm pot and garden use.
- Can be flowered in Spring from an Autumn sowing when grown in a cool greenhouse (night temperatures lower than 60°F/15°C) with no special vernalization treatment required.
- Easy-to-force, free-flowering, medium-compact plants have 1.5 to 3.5-in./4 to 9-cm blooms.

Bluebird: 11 in./28 cm tall.

Cardinal: 11 in./28 cm tall. Early-flowering and well-matched to Bluebird.

Dove: 18 in./45 cm tall.

Goldfinch: 18 in./45 cm tall.

Nightingale: 18 in./45 cm tall.

Robin: 18 in./45 cm tall. Very easy to force into flower.

Mixture (Not pictured)

Swan F1 Series

Height: 20 to 24 in./45 to 60 cm
Spread: 12 to 14 in./30 to 35 cm

Plug crop time: 6 to 9 weeks
Transplant to finish: 22 to 28 weeks

USDA Hardiness Zones: 3 to 9 (-40 to 20°F/-40 to -7°C minimum temperatures)

A First-Year-Flowering Perennial. Supplied as raw seed.

The true garden aquilegia! Abundant large blooms in vibrant colours make this an excellent home garden cut flower.

- Early and economical to grow - can be flowered in Spring from an Autumn sowing when grown in a cool greenhouse (night temperatures lower than 60°F/ 15°C) with no special vernalization treatment.
- Multi-stemmed plants are well-matched for uniform size, exceptional garden performance and large blooms.
- Easy to force into flower in containers.
- Very high bud count for more flowers per plant.
- Taller than the Songbird varieties.

Pink And Yellow is slightly earlier than other Swan colours, flowering 2 to 3 weeks faster.



Mixture



Blue And White



Burgundy And White
RHS Award of Garden Merit



Lavender



Pink And Yellow



Red And White



Rose And White



Violet And White



White



Yellow *RHS Award of Garden Merit*



Clemantine Mixture *Fleuroselect Quality Award*



Clemantine Blue *Fleuroselect Novelty*



Clemantine Dark Purple
Fleuroselect Novelty



Clemantine Red



Clemantine Rose
Fleuroselect Novelty



Clemantine White



Clemantine Salmon Rose
Fleuroselect Novelty



Barlow Mixture



Barlow Blue



Barlow Christa



Barlow Nora



Barlow Rose



Barlow White

AQUILEGIA (COLUMBINE) 
Aquilegia vulgaris

Barlow Series

Height: 28 to 30 in./70 to 80 cm
Spread: 16 to 20 in./40 to 50 cm

Plug crop time: 7 to 8 weeks
Transplant to finish: 30 to 40 weeks

USDA Hardiness Zones: 3 to 5 (-40 to -20°F/-40 to -29°C minimum temperatures)

Supplied as raw seed.

The first *Aquilegia vulgaris* series with fully double, spurless flowers, the highly uniform plants produce 3 to 5 stems in the first year and 5 to 10 stems in the second year.

Black (Not pictured)
Bordeaux (Not pictured)

Clemantine Series

Height: 14 to 16 in./35 to 40 cm
Spread: 12 to 14 in./30 to 35 cm

Plug crop time: 7 to 8 weeks
Transplant to finish: 26 to 40 weeks

USDA Hardiness Zones: 3 to 8 (-40 to 10°F/-40 to -12°C minimum temperatures)

Supplied as TunedSeeds.

Useful in both borders and landscapes. Spurless double flowers face upwards and resemble Clematis flowers. Best-suited for 5 to 6-in./13 to 15-cm pots, plants have good shelf life with high appeal in the store and in the garden. Sow June to July for Spring sales the following year.

Winky Single Series

Height: 12 to 14 in./30 to 35 cm
Spread: 12 to 14 in./30 to 35 cm

Plug crop time: 7 to 8 weeks
Transplant to finish: 26 to 40 weeks

USDA Hardiness Zones: 3 to 8 (-40 to 10°F/-40 to -12°C minimum temperatures)

Supplied as raw seed.

Winky's unique colours and abundance of upright-facing flowers make for strong sales appeal - the most floriferous Aquilegia at retail!

- Plants ship and retail well.
- Uniform in habit and height, with strong stems and vigorous, bushy habit.
- Mildew tolerant.
- Useful for containers and landscapes.
- Flowers Spring to early Summer, with recommended sowing time June to July.

Early Sky Blue blooms 1 to 2 weeks earlier than rest of series.

Winky Double Series

Height: 12 to 14 in./30 to 35 cm
Spread: 12 to 14 in./30 to 35 cm

Plug crop time: 7 to 8 weeks
Transplant to finish: 26 to 40 weeks

USDA Hardiness Zones: 3 to 8 (-40 to 10°F/-40 to -12°C minimum temperatures)

Supplied as raw seed.

Unique double, upward-facing flowers in one-of-a-kind colour patterns offer "something different" for big retail appeal.

- Excellent uniformity during culture and harvest.
- Full and vigorous habit.
- Long shelf life.
- Mildew tolerance.
- Versatile uses.

Mixture (Not pictured)



Winky Single Mixture



Winky Single Blue-White



Winky Single Early Sky Blue
Fleuroselect Novelty



Winky Single Pink



Winky Single Purple-White



Winky Single Red-White
Fleuroselect Quality Award



Winky Single Rose-Rose
Fleuroselect Quality Award



Winky Single White



Winky Double Dark Blue-White



Winky Double Red-White
Fleuroselect Novelty



Winky Double Rose-White



Winky Double White-White
Fleuroselect Novelty



New Lotti Deep Rose Arabis



Spring Charm Arabis



Pinky Arabis



New Lotti White Arabis



Avalanche Arenaria

ARABIS 
Arabis blepharophylla

Spring Charm

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

Plug crop time: 6 to 8 weeks
Transplant to finish: 24 to 36 weeks

USDA Hardiness Zones: 4 to 7 (-30 to 0°F/-34 to -18°C minimum temperatures)

Supplied as raw seed.

Wintergreen, bushy and compact plant has spikes of strong pink flowers over attractive foliage. Uniform, early flowering and well-suited to container production.

ARABIS 
Arabis caucasica

New Lotti Series

Height: 4 to 6 in./10 to 15 cm
Spread: 6 to 8 in./15 to 20 cm

Plug crop time: 5 to 6 weeks
Transplant to finish: 24 to 28 weeks

USDA Hardiness Zones: 4 to 7 (-30 to 0°F/-34 to -18°C minimum temperatures)

Supplied as coated seed.

No more rangy, uncontrolled and unsalable plants, thanks to Lotti's uniform, well-branched and tight plant habit!

- Short harvest window - can harvest in 1 run without the need to pick and choose.
- Tight, floriferous plants look better at retail.
- Series includes a non-fading rose colour.
- Showy, mounded plants have big appeal for gardeners.

Pinky

Height: 4 to 6 in./10 to 15 cm
Spread: 6 to 9 in./15 to 23 cm

Plug crop time: 6 to 7 weeks
Transplant to finish: 24 to 28 weeks

USDA Hardiness Zones: 4 to 7 (-30 to 0°F/-34 to -18°C minimum temperatures)

Supplied as raw seed.

Early-flowering, compact and uniform variety with intense, bright, deep pink colour. Quality item for professional growers is recommended for 3.5 to 5-in./9 to 13-cm programs.

ARENARIA 
Arenaria montana

Avalanche

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

Plug crop time: 8 to 10 weeks
Transplant to finish: 26 to 44 weeks

USDA Hardiness Zones: 4 to 8 (-30 to 10°F/-34 to -12°C minimum temperatures)

Supplied as raw seed.

Professional selection of popular perennial bedding variety makes a uniform and compact plant that is covered with a profusion of large, white blooms over a long flowering season. Suitable for pot and container production. Sow in June to July for late Spring and early Summer sales the following year.



New Ballerina Mixture Armeria



Sunnyola Barbarea



Silky Deep Red Asclepias



Silky Gold Asclepias
Fleuroselect Quality Award



Silky Scarlet Asclepias



Ballerina Lilac Armeria
Fleuroselect Novelty



Ballerina Red Armeria
Fleuroselect Gold Medal



Ballerina White Armeria
Fleuroselect Gold Medal



Joystick Lilac Shades Armeria
Fleuroselect Quality Award



Joystick Red Armeria
Fleuroselect Quality Award



Joystick White Armeria
Fleuroselect Quality Award

ARMERIA

Armeria pseudarmeria

Ballerina Series

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

Plug crop time: 5 to 6 weeks
Transplant to finish: 12 to 15 weeks

USDA Hardiness Zones: 7 to 9
(0 to 20°F/-18 to -7°C minimum temperatures)

A First-Year-Flowering Perennial.
Supplied as clean seed.

High-quality, programmable perennial fits right into your early-season program - now in a bright mix!

- Compact and uniform plants produce cushion-shaped, grassy foliage and long, strong stems topped with globe-shaped blooms.
- Low maintenance and salt tolerant.
- Excellent first-year garden performance in beds, containers and mixed plantings.
- Suitable for 4-in./10-cm pot production.
- Recommended for sowing February to May or August to September.

Joystick Series

Height: 12 to 14 in./30 to 35 cm
Spread: 10 to 14 in./25 to 35 cm

Plug crop time: 6 to 7 weeks
Transplant to finish: 14 to 17 weeks

USDA Hardiness Zones: 7 to 9
(-0 to 20°F/-23 to -7°C minimum temperatures)

A First-Year-Flowering Perennial.
Supplied as cleaned seed.

Hardy perennial produces cushion-shaped, grassy foliage and long-stemmed globular blooms. Taller than Ballerina, the long-flowering plants are suitable for borders and backyard cut flower gardens.

Mixture (Not pictured)

ASCLEPIAS

Asclepias curassavica

Silky Series

Height: 24 to 28 in./60 to 70 cm
Spread: 8 to 10 in./20 to 25 cm

Plug crop time: 4 to 5 weeks
Transplant to finish: 11 to 12 weeks

Supplied as raw seed.

This high-quality cut flower is bred for greenhouse and outdoor Summer production and prefers a warm, rather dry location. Multi-purpose plants work well in gardens, landscapes, patio planters and as an annual cut flower. Produces beautiful flower umbels in intense colours on strong stems for an exotic look.

Mixture (Not pictured)

BARBAREA

Barbarea rupicola

Sunnyola

Height: 5 to 6 in./12 to 15 cm
Spread: 6 to 8 in./15 to 20 cm

Plug crop time: 6 to 7 weeks
Transplant to finish: 26 to 38 weeks

USDA Hardiness Zones: 6 to 8
(-10 to 10°F/-23 to -12°C minimum temperatures)

Supplied as raw seed.

Unique variety combines ornamental foliage, flowers and seed pods into one attractive Spring crop. Flowering is followed by a display of long, slender, green seed pods which fade to red-green. Recommended sowing time is July and August.



Medicis Mixture Bellis



Medicis Red Bellis



Medicis Rose Bellis



Medicis White Bellis



Red Beauty Bergenia



Bellissima Red Bellis



Bellissima Rose Bellis
Fleuroselect Quality Award



Bellissima Rose Bicolor Bellis
Fleuroselect Quality Award



Bellissima White Bellis
Fleuroselect Quality Award



Griffiti Bupleurum

BELLIS 
Bellis perennis

Bellissima Series

Height: 6 to 10 in./15 to 25 cm
Spread: 5 to 8 in./13 to 20 cm

Plug crop time: 5 weeks
Transplant to finish: 8 to 14 weeks

USDA Hardiness Zone: 4 to 8 (-30 to 10°F/-34 to -12°C minimum temperatures)

Supplied as pelleted seed.

Needing no vernalization to flower, the robust, early-blooming plants are strong landscape performers in cool climates, displaying an abundance of large, fully double flowers. Best in packs to 5-in./13-cm pots.

Mixture (Not pictured)

Medicis Series


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

Plug crop time: 4 to 5 weeks
Transplant to finish: 14 weeks

Supplied as raw seed.

Pomponnette-type English daisies have large, fully double, quill-petaled flowers up to 1.25 in./3 cm across. Under cooler temperatures, flowers are more fully double. Best grown as a biennial bedding or pot plant for Spring displays.

BELLS OF IRELAND
See **Moluccella**, page 198.

BERGENIA 
Bergenia cordifolia

Red Beauty

Height: 20 to 25 in./50 to 60 cm
Spread: 18 to 24 in./45 to 60 cm

Plug crop time: 8 to 10 weeks
Transplant to finish: 36 to 40 weeks

USDA Hardiness Zones: 3 to 5 (-40 to -20°F/-40 to -29°C minimum temperatures)

Supplied as raw seed.

Hardy perennial has ornamental, evergreen foliage and deep purplish-red flowers appearing in early Spring. Suitable for 4 to 5-in./10 to 12-cm pot production.

BUPLEURUM 
Bupleurum rotundifolium

Griffiti

Height: Direct-sown: 36 to 40 in./90 cm to 1 m; from plug: 28 to 36 in./70 to 90 cm
Spread: 18 to 24 in./45 to 60 cm

Direct sowing to finish: 12 to 16 weeks

Supplied as raw seed.

Uniform greenish-yellow filler for fresh cut flower bouquets or as a border background plant. Graded seed ensures uniform germination, culture and harvest for programmable production cycles.



Campana Deep Blue Campanula



Campana Lilac Campanula



Advance Blue Campanula



Grenade Orange Carthamus



Grenade White Carthamus



Campana Pink Campanula



Campana White Campanula



Advance White Campanula



Amor Blue Catananche



Amor White Catananche

CAMPANULA

Campanula medium 🌞

Campana F1 Series

Height: 30 to 34 in./75 to 85 cm
Spread: 5 in./12 cm

Plug crop time: 7 to 8 weeks
Transplant to finish: 10 to 14 weeks

Supplied as pelleted seed.

Top-quality professional cut flower series is a low-energy crop, suitable for Summer or Winter production. Well-matched across the series for timing and habit, Campana delivers excellent uniformity. 100% top-flowering with strong stems and good foliage.

CAMPANULA

Campanula cochlearifolia 🌞

Advance Series

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

Plug crop time: 6 to 8 weeks
Transplant to finish: 11 to 14 weeks

USDA Hardiness Zone: 4 to 7 (-30 to 0°F/-34 to -18°C minimum temperatures)

A First-Year-Flowering Perennial. Supplied as raw seed.

Outstanding in uniformity and early flowering, compact varieties are ideal for small pot programs, providing reliable, floriferous plants. Best in well-drained, sunny gardens. Recommended sowing time is February to May.

CAPSICUM

See **Ornamental Pepper** In PanAmerican Seed, page 93.

CAREX

See **Grasses** in PanAmerican Seed, page 46.

CARTHAMUS

Carthamus tinctorius 🌞

Grenade Series

Height: 32 to 40 in./80 cm to 1 m
Spread: 8 to 10 in./20 to 25 cm

Direct sowing to finish: 10 to 16 weeks

Supplied as coated seed.

Ideal for indoor and outdoor professional cut flower production, featuring round, thornless leaves and round flower buds. Uniform stem length across the series. Excellent for fresh and dried use; can also be used green when harvested young. Preferably grown as a direct-sown crop.

Zanzibar (Not pictured)

Height: 32 to 40 in./80 cm to 1 m
Spread: 8 to 10 in./20 to 25 cm

Direct sowing to finish: 10 to 16 weeks

Supplied as coated seed.

Deep orange to yellow-red flowers resembling thistles top stems of uniform length. Well-suited to indoor and outdoor professional cut flower programs; can be used fresh and dried. Preferably grown as a direct-sown crop.

CATANANCHE

Catananche caerulea 🌞

Amor Series

Height: 20 to 22 in./50 to 60 cm
Spread: 12 to 14 in./30 to 35 cm

Plug crop time: 6 to 8 weeks
Transplant to finish: 14 to 18 weeks

USDA Hardiness Zone: 4 to 7 (-30 to 0°F/-34 to -18°C minimum temperatures)

A First-Year-Flowering Perennial. Supplied as raw seed.

Produces fine flowers on slender stems with narrow foliage. Good for borders or as fresh or dried cut flower. Best grown on a dry, sunny and chalky soil. Sow early for Spring flowering in the first year. Winter cover can be beneficial; needs good drainage to survive wet Winters.



Bombay Fire



Bombay Fidor European Community Plant
Variety Rights Number EU17179



Bombay Figo European Community Plant
Variety Rights Number EU16690

CELOSIA

Celosia cristata (Cockscomb) 🌻

Bombay Series

Height: 28 to 40 in./70 cm to 1 m
Spread: 5 in./13 cm

Plug crop time: 2 to 3 weeks
Transplant to finish: 10 to 14 weeks

Supplied as coated seed.

The professional cut flower grower's choice for economical, high-density production – the industry standard!

- High-quality greenhouse series offers short, programmable production period; high yields; strong stems and absence of off-shoot flowers.
 - Features round stems, flat combs, a wide range of appealing colours and truly uniform growth.
 - Large, triangular comb-shaped flower heads add an exclusive touch to any bouquet, alone or mixed.
 - 3 to 4-week shorter production period, better transportability, better stress resistance and longer vase life than the competition.
 - Includes Bombay Fire colours: narrow and small-leaved, of good length and well-matched for easy production planning.
- Candy, Sunshine and Bordeaux are well-matched.



Bombay Yellow Gold
Fleuroselect Gold Medal



Bombay Bordeaux



Bombay Candy



Bombay Firosa European Community Plant
Variety Rights Number EU16689



Bombay Cherry



Bombay Orange



Bombay Pink



Bombay Rose



Bombay Filemon



Bombay Fiora



Bombay Salmon



Bombay Sunshine



Bombay Velvet



Bombay Purple
Fleuroselect Gold Medal
European Community Plant
Variety Rights Number EU1458



Bombay Fisal



Bombay Fivio

Jura Salmon

Height: 32 to 40 in./80 cm to 1 m
Spread: 5 in./12 cm

Plug crop time: 2 to 3 weeks
Transplant to finish: 10 to 15 weeks

Supplied as coated seed.

High-quality greenhouse cut flower has a programmable cultivation period for year-round sales. Produces a high percentage of saleable stems. Uniform plant habit with strong round stems for easy harvesting and good shipability. Excellent vase life.

Spring Green

Height: 40 to 48 in./1 to 1.2 m
Spread: 5 in./12 cm

Plug crop time: 2 to 3 weeks
Transplant to finish: 12 to 16 weeks

Supplied as coated seed.

Easy to program for year-round sales, this high-quality, greenhouse cut flower yields a high percentage of saleable stems. Uniform plant habit with strong round stems for easy harvesting and good shipability.

CELOSIA

Celosia plumosa 🌻

Sunday Series

Height: 28 to 40 in./70 cm to 1 m
Spread: 5 in./12 cm

Plug crop time: 2 to 3 weeks
Transplant to finish: 12 to 16 weeks

Supplied as coated seed.

Popular plume-shape Celosia is now available for the first time as a professional cut flower, with sufficient stem length and strength for retail bouquets. Similar in production to the widely-used *Celosia cristata* varieties, the Sunday series has a short, programmable production time and a high yield percentage, making it ideal for high-density production. Excellent shipability and vase life. Perfect filler for mixed bouquets; also makes an eye-catching backyard cut flower.

Orange is one of the latest to flower in the series.

Wine Red is one of the latest to flower and the shortest in the series.

Mixture (Not pictured)



Sunday Bronze



Sunday Dark Pink



Sunday Orange



Sunday Red



Sunday Salmon



Sunday Wine Red



Jura Salmon



Spring Green



Purple



Lemon



Orange



Salmon



Red



Terracotta



White



Mixture

CELOSIA
Celosia spicata 🌞

Kosmo Series See **PanAmerican Seed**, page 30.

Celway Series

Height: 40 to 48 in./1 to 1.2 m
Spread: 5 in./12 cm

Plug crop time: 2 to 4 weeks
Transplant to finish: 12 to 15 weeks

Supplied as coated seed.

One central spiky plume surrounded by several smaller spikes gives an impression of a well-filled bunch of spikes with extra side branches. Short programmable production time is comparable to Bombay series. Suitable for high-density production. Strong stems with small top leaves allow for good sleeving and shipability.

Enterprise Series

Height: 40 to 48 in./1 to 1.2 m
Spread: 5 in./12 cm

Plug crop time: 2 to 4 weeks
Transplant to finish: 12 to 15 weeks

Supplied as coated seed.

Longer central plume surrounded by smaller plumes, forming a slender spike about 6 to 8 in./15 to 20 cm long. Production time is about 10 days longer than Bombay, but substantially shorter than competitive varieties. Holds flower colour well.

Punky Red

Height: 20 to 23 in./50 to 60 cm
Spread: 20 in./50 cm

Plug crop time: 2 to 4 weeks
Transplant to finish: 12 to 15 weeks

Supplied as coated seed.

Mid-height garden Celosia forms large clusters of deep red flower spikes for colour all through the Summer, especially in warm climates. Performs best in well-drained, fertile soil in full sun.

Spiky Series

Height: 16 in./40 cm
Spread: 8 to 12 in./20 to 30 cm

Plug crop time: 2 to 4 weeks
Transplant to finish: 12 to 15 weeks

Supplied as coated seed.

Once flowering, the upright, red-stemmed plants continue to develop by extending flower spikes into attractive forms with Summer-long colour. Outstanding in well-drained, sunny borders and patio planters; excellent landscape variety for warmer areas.

Startrek Series

Height: 40 to 48 in./1 to 1.2 m
Spread: 5 in./12 cm

Plug crop time: 2 to 4 weeks
Transplant to finish: 12 to 15 weeks

Supplied as coated seed.

Companions to the Enterprise series with the same culture and features, the Startrek varieties produce one central plume surrounded by several smaller plumes - the overall impression is that of a star-shaped cone.

BEDDING & POT CELOSIA
See **PanAmerican Seed**, pages 29-31.



Enterprise Dark Pink



Enterprise Wine Red



Punky Red *Fleuroselect Quality Award*



Spiky Pink *Fleuroselect Quality Award*



Spiky Purple



Startrek Lilac



Startrek Rose Pink *Fleuroselect Quality Award*



Arista Chaenorrhinum



Early Sunrise Coreopsis
All-America Selections Winner,
Fleuroselect Gold Medal



Rising Sun Coreopsis
Fleuroselect Gold Medal



Sunfire Coreopsis
Fleuroselect Quality Award

CHAENORRHINUM ☀️
Chaenorrhinum origanifolium

Arista

Height: 6 to 7 in./15 to 18 cm
Spread: 6 to 10 in./15 to 25 cm

Plug crop time: 6 to 8 weeks
Transplant to finish: 10 to 16 weeks

USDA Hardiness Zones: 7 to 9
(0 to 20°F/-18 to -7°C minimum temperatures)

A First-Year-Flowering Perennial.
Supplied as pelleted seed.

The darkest blue *Chaenorrhinum* on the market is less spreading and more compact, making it less breakable and more attractive at retail. Semi-cascading plants have good centre flowering and finely textured foliage. Recommended sowing time is February to May.

COREOPSIS ☀️
Coreopsis grandiflora

Early Sunrise

Height: 24 in./60 cm
Spread: 22 to 24 in./55 to 60 cm

Plug crop time: 5 weeks
Transplant to finish: 9 to 12 weeks

USDA Hardiness Zones: 4 to 9 (-30 to 20°F/-34 to -7°C minimum temperatures); can also be marketed as an annual in premium packs.

A First-Year-Flowering Perennial.
Supplied as raw seed.

Compact and uniform Early Sunrise can be sold in blooming packs. Produces golden yellow, semi-double flowers constantly all Summer. Fits annual production scheduling and is a great variety for parks and landscapes.

Rising Sun

Height: 18 to 30 in./45 to 75 cm
Spread: 24 to 26 in./60 to 65 cm

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

USDA Hardiness Zones: 4 to 9 (-30 to 20°F/-34 to -7°C minimum temperatures); can also be marketed as an annual in premium packs.

A First-Year-Flowering Perennial.
Supplied as raw seed.

Early to flower and naturally compact, blooming up to 1 week faster than Early Sunrise. More naturally compact in a pack or 4-in./10-cm pot, requiring less growth regulators. Produces a smaller, controllable habit in the garden the first year; after overwintering, plants are larger than Early Sunrise.

Sunfire

Height: 24 in./60 cm
Spread: 22 to 24 in./55 to 60 cm

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

USDA Hardiness Zones: 4 to 9 (-30 to 20°F/-34 to -7°C minimum temperatures); can also be marketed as an annual in premium packs.

A First-Year-Flowering Perennial.
Supplied as raw seed.

Well-matched to Rising Sun for habit and timing, and earlier to flower than Early Sunrise. Naturally compact in a pack or 4-in./10-cm pot, requiring less PGRs, or no PGRs in certain conditions.



Pink Feather Cortaderia



White Feather Cortaderia



Billy Buttons Craspedia

CORTADERIA ☀️

Cortaderia selloana (Pampas Grass)

Pink Feather

Height: 80 in./2 m or more
Spread: 30 to 40 in./75 cm to 1 m

Plug crop time: 6 to 8 weeks
Transplant to finish: 36 to 48 weeks

USDA Hardiness Zones: 7 to 10 (0 to 30°F/-18 to -1°C minimum temperatures)

Supplied as clean seed.

The most dramatic of all ornamental grasses, impressive Pink Feather makes a massive clump of narrow leaves and produces huge, feathery pink plumes from August to October. Maintains Winter interest.

White Feather

Height: 80 in./2 m or more
Spread: 30 to 40 in./75 cm to 1 m

Plug crop time: 6 to 8 weeks
Transplant to finish: 36 to 40 weeks

USDA Hardiness Zones: 7 to 10 (0 to 30°F/-18 to -1°C minimum temperatures)

Supplied as clean seed.

Dramatic ornamental grass displays huge, feathery white plumes from August to October, over arching, green foliage. Good Winter-interest choice.

CORYNEPHORUS

See Grasses in **PanAmerican Seed**, page 47.

CRASPEDIA ☀️

Craspedia globosa

Billy Buttons

Height: 16 to 20 in./40 to 50 cm
Spread: 10 to 12 in./25 to 30 cm

Plug crop time: 6 to 7 weeks
Transplant to finish: 17 to 18 weeks

Supplied as clean seed.

This hardy annual plant produces a basal rosette of long leaves and branchless flower stalks topped with bright yellow, globe-shaped flower clusters. Useful for a fresh and dried cut flower; can be cut over a long period.

guardian



Blue



Lavender



White

DELPHINIUM ☀️
Delphinium elatum

Guardian F1 Series

Height: 30 to 39 in./75 to 100 cm

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

Plug crop time: 6 to 7 weeks

Transplant to finish: 16 weeks

USDA Hardiness Zone: 4 to 7 (-30 to 0°F/-34 to -18°C minimum temperatures)

A First-Year-Flowering Perennial.
Supplied as raw seed.

Breeding breakthrough makes it easy to program your crop to meet shipping dates!

- Very uniform blooming within each variety, especially under short days.
- Works well as a tall landscape/perennial variety, as a commercial cut flower, and in potted plant programs.
- Up to 6 weeks faster from transplant to bloom than O.P. types for more turns per sq. ft./metre of greenhouse space.
- As a greenhouse cut flower, Guardian can be grown under the same conditions as dianthus and snapdragons.
- Produces excellent stem quality for good cut flower shipability.
- Suitable as a greenhouse cut flower or for garden cut flower production.

Mixture (Not pictured)



Blue Donna



Dasante Blue



Blue Pygmy

DELPHINIUM ☀️
Delphinium x belladonna

Blue Donna

Height: 32 to 40 in./ 80 cm to 1 m.
Spread: 8 to 10 in./20 to 25 cm
Plug crop time: 5 to 6 weeks
Transplant to finish: 12 to 16 weeks
USDA Hardiness Zones: 5 to 9 (-20 to 20°F/-29 to -7°C minimum temperatures)

A First-Year-Flowering Perennial.
Supplied as raw seed.

True blue Delphinium has improved uniformity and colour, increased productivity and more stems per sq. ft./sq. m. Heat tolerant with low disease sensitivity. Can be grown as a hardy perennial, backyard cut flower or annual in professional indoor or outdoor production.

DELPHINIUM ☀️
Delphinium elatum

Dasante Blue F1

Height: 28 to 34 in./70 to 85 cm
Spread: 10 to 12 in./25 to 30 cm
Plug crop time: 6 to 7 weeks
Transplant to finish: 11 to 13 weeks
USDA Hardiness Zones: 4 to 8 (-30 to 10°F/-34 to -12°C minimum temperatures)
A First-Year-Flowering Perennial.
Supplied as raw seed.

Answer the "Do you have anything blue?" question with this exciting compact perennial featuring vibrant, true blue flowers with light purple accents and white bees.

- Grower-friendly, uniform plants are more compact, more responsive to PGRs and naturally earlier than other *D. elatum* types.
- Easy-care, cool-season crop can be grown with little or no heat for energy savings.
- Plants ship well with more plants per rack in flower than any other delphinium for tremendous retail impact.
- Best for gallons with 3 plants per pot.
- Suitable for greenhouse, field or garden cut flower production.

DELPHINIUM ☀️
Delphinium grandiflorum

Blue Pygmy

Height: 12 to 14 in./30 to 35 cm
Spread: 10 to 12 in./ 25 to 30 cm
Plug crop time: 6 to 7 weeks
Transplant to finish: 9 to 12 weeks
USDA Hardiness Zone: 4 to 7 (-30 to 0°F/-34 to -18°C minimum temperatures)

A First-Year-Flowering Perennial.
Supplied as raw seed.

Ideal for 4 to 5-in./10 to 12-cm programs, Blue Pygmy produces compact plants with large, deep blue, spurred flowers. Excellent basal branching assures a good plant habit. Sow in February for May to June flowering, or in May for July to August flowering.



Diamonds Blue Delphinium



Redcap Delphinium



Shrimp Dianthus



Arctic Fire Dianthus



Dwarf Carillon Digitalis

Diamonds Blue F1

Height: 16 to 24 in./40 to 60 cm
Spread: 10 to 12 in./25 to 30 cm

Plug crop time: 6 to 7 weeks
Transplant to finish: 10 to 12 weeks

USDA Hardiness Zones: 4 to 8 (-30 to 10°F/-34 to -12°C minimum temperatures)

A First-Year-Flowering Perennial.
Supplied as raw seed.

The first F1 spurless delphinium from seed, Diamonds Blue eliminates the need for tissue culture inputs and is supplied with up to 25% higher germination for more effective scheduling. Uniform plants can be shipped and sold at first colour. Ideal for gallons with 3 plants per pot. Suitable for greenhouse, field or garden cut flower production.

DELPHINIUM ☀️
Delphinium nudicaule

Redcap

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

Plug crop time: 6 to 8 weeks
Transplant to finish: 12 to 14 weeks

USDA Hardiness Zones: 6 to 9 (-10 to 20°F/-23 to -7°C minimum temperatures)

A First-Year-Flowering Perennial.
Supplied as raw seed.

Compact variety produces many stems of striking red flowers with strong red spurs, over shiny, deep green, indented leaves. Tender perennial is suitable for container production for Spring, Summer and Autumn. Recommended sowing time is February to May.

DIANTHUS ☀️
Dianthus deltoides

Arctic Fire

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

Plug crop time: 6 to 8 weeks
Transplant to finish: 10 to 14 weeks

USDA Hardiness Zone: 4 to 7 (-30 to 0°F/-34 to -18°C minimum temperatures)

A First-Year-Flowering Perennial.
Supplied as raw seed.

Striking colour combination and excellent foliage quality. Starts to bloom abundantly 3 to 4 months after sowing. Recommended sowing time is February to May or July.

Shrimp

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

Plug crop time: 6 to 8 weeks
Transplant to finish: 8 to 11 weeks

USDA Hardiness Zone: 4 to 7 (-30 to 0°F/-34 to -18°C minimum temperatures)

A First-Year-Flowering Perennial.
Supplied as raw seed.

Starts to flower 3 months after sowing. Sturdy, spreading plants have an upright habit, flower 2 to 3 weeks earlier than Arctic Fire, and continue flowering for several months. Recommended sowing time is February to May or July.

DIGITALIS ☀️
Digitalis grandiflora

Dwarf Carillon

Height: 14 to 16 in./35 to 40 cm
Spread: 12 to 14 in./30 to 35 cm

Plug crop time: 6 to 8 weeks
Transplant to finish: 10 to 14 annual crop weeks

USDA Hardiness Zone: 4 to 7 (-30 to 0°F/-34 to -18°C minimum temperatures)

A First-Year-Flowering Perennial.
Supplied as raw seed.

Compact Foxglove's dense flower stems emerge from clear green, small-leaved foliage rosettes. Performs well in gardens too, preferring humus-rich soil in partial shade. Recommended sowing time is February to May or June to July.

dalmatian



Dalmatian Peach

DIGITALIS 
Digitalis purpurea

Dalmatian F1 Series

Height: 16 to 20 in./40 to 50 cm
Spread: 12 to 14 in./30 to 35 cm

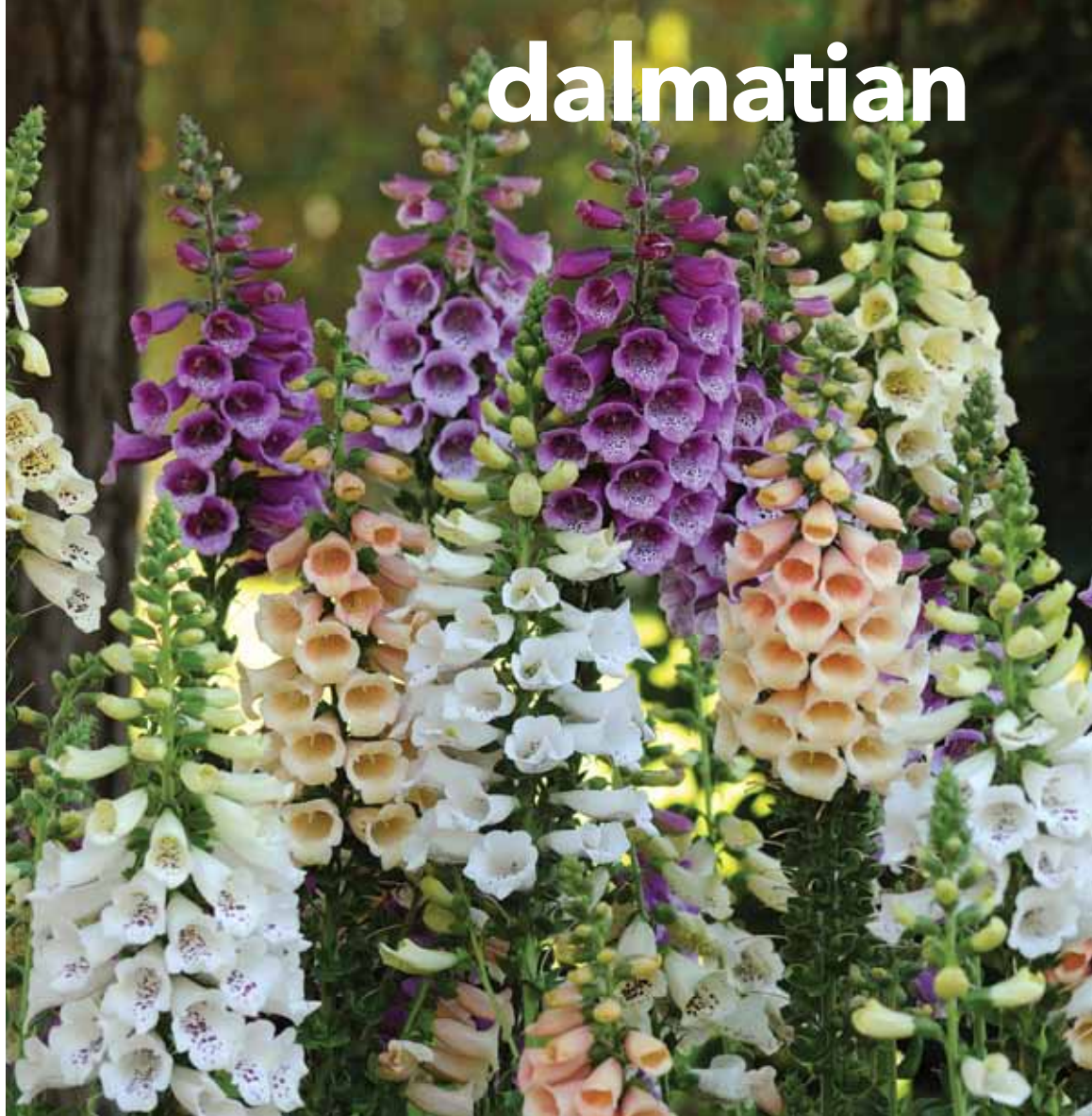
Plug crop time: 5 to 6 weeks
Transplant to finish: 10 to 14 weeks

USDA Hardiness Zones: 5 to 9 (-20 to 20°F/-29 to -7°C minimum temperatures)

A First-Year-Flowering Perennial. Supplied as SowEasy single pellets.

The fastest Digitalis on the market in striking colours customers love!

- Uniform in height and early flowering.
- Well-branched with excellent habit and compact foliage.
- Produces strong colours on good-quality spikes.
- Suitable for 1 and 2 gallons and up.
- Good end cap product at low input.



New Dalmatian Mixture



Dalmatian Crème



Dalmatian Rose




New Dalmatian Purple Improved



New Dalmatian White Improved

'cheyenne spirit'

ECHINACEA 
Echinacea x hybrida
(Coneflower)

'Cheyenne Spirit'

Height:

18 to 24 in./45 to 60 cm first year; 22 to 30 in./55 to 75 cm second year

Spread:

10 to 16 in./25 to 40 cm first year; 14 to 20 in./35 to 50 cm second year

Plug crop time: 5 to 6 weeks

Transplant to finish: 13 to 17 weeks

USDA Hardiness Zones: 4 to 10 (-30 to 30°F/-34 to 1°C minimum temperatures)

A First-Year-Flowering Perennial. Supplied as raw seed.

For the first time, this incredibly vibrant colour range is available as a segregating mix from seed! 'Cheyenne Spirit' offers the more economical way to bring these sought-after colours to market compared to traditional tissue-culture material.

- Broad and consistent palette includes shades of red, orange, purple, scarlet, cream, yellow and white.
- Exceptionally well-branched plants flower from a first-year sowing, with plenty of flower power.
- Plants are naturally shorter than those from tissue culture - easy to ship on racks.
- Long retail shelf life, drought tolerance and excellent Winter hardiness.

'cheyenne spirit'



'Cheyenne Spirit' All-America Selections Winner, Fleuroselect Gold Medal
U.S. Utility Patent 7,982,110



Keeping you current on culture.

Echinacea is a newer product for breeders and our industry has seen some truly dramatic introductions in the past few years. Kieft Seed is proud of our recent debut of the PowWow series, featuring the award-winning Wild Berry, followed by the unveiling of colour-filled 'Cheyenne Spirit', also an award winner.

Our global culture research team provides extensive support for this important new crop. These Echinacea varieties can be programmed from Spring to Autumn using our day length protocols. We partnered with Michigan State University to research photoperiods and share our findings with you in our



Sonali Padhye
Technical Services Manager

GrowerFacts. We also identified the optimum germination temperatures to assure the most uniform, synchronized germination. We continue to work with key commercial growers to fine-tune culture regimens related to overwintering.

We're committed to your growing success through our ongoing breeding and global culture research.



Scan or go to kieftseed.com/cheyennespirit



Long retail shelf life



PowWow Wild Berry All-America Selections Winner
U.S. Patent No. 7,982,110; European Community Plant Variety Rights Applied For



PowWow White

ECHINACEA 🌻
Echinacea purpurea
(Coneflower)

PowWow® Series

Height: 16 to 20 in./40 to 50 cm first year; 22 to 24 in./55 to 60 cm second year

Spread: 12 to 16 in./30 to 40 cm

Plug crop time: 5 to 6 weeks

Transplant to finish: 13 to 17 weeks

USDA Hardiness Zones: 4 to 10 (-30 to 30°F/-34 to -1°C minimum temperatures)

A First-Year-Flowering Perennial. Supplied as raw seed.

PowWow puts more flowers on every plant than any other seed Echinacea, for a terrific, non-fading colour show!

- Can be grown for first-year Spring sales or as a traditional overwintered perennial.
- Very well-matched for habit and timing, faster to flower and genetically shorter than the competition, making it easy to grow and ship on racks.
- No PGRs needed to maintain controlled height in quart or gallon programs.
- Very drought-tolerant, easy-care plants stay tidy at retail with long holdability.

Wild Berry produces up to 2% taller plants.





Magnus Echinacea



White Swan Echinacea



Stallone Erigeron



Goldrush Erysimum



Leuchtstern Echinacea



Citrona Yellow Erysimum U.S. PVP
Number 200600168, European Community Plant
Variety Rights Number EU21395



Citrona Orange Erysimum U.S. PVP
Number 200600167, European Community Plant
Variety Rights Number EU21394



Kilimanjaro Euphorbia

ECHINACEA 🌻

Echinacea purpurea
(Coneflower)

Leuchtstern

Height: 40 in./1 m
Spread: 12 to 16 in./30 to 40 cm

Plug crop time: 5 to 6 weeks
Transplant to finish: 13 to 17 weeks

USDA Hardiness Zones: 3 to 8 (-40 to 10°F/-40 to -12°C minimum temperatures)

Supplied as raw seed.

Produced for its attractive flower cone, this perennial cut flower produces purple blooms with an orange brown disc.

Magnus

Height: 24 to 30 in./60 to 75 cm
Spread: 24 in./60 cm

Plug crop time: 6 to 7 weeks
Transplant to finish: 15 to 18 weeks

USDA Hardiness Zones: 4 to 9 (-30 to 20°F/-34 to -7°C minimum temperatures)

Supplied as raw seed.

Single, 4.5-in./11-cm, daisylike flowers with dark green leaves. Tolerates heat, drought and windy conditions.

White Swan

Height: 24 to 30 in./60 to 75 cm
Spread: 18 to 24 in./45 to 60 cm

Plug crop time: 6 to 7 weeks
Transplant to finish: 15 to 18 weeks

USDA Hardiness Zones: 4 to 9 (-30 to 20°F/-34 to -7°C minimum temperatures)

Supplied as raw seed.

White, 4-in./10-cm flowers have yellow centres, over dark green, coarse and serrated leaves. Heat and drought tolerant.

ERIGERON 🌻

Erigeron karvinskianus

Stallone

Height: 6 to 8 in./15 to 20 cm
Spread: 12 to 14 in./30 to 35 cm

Plug crop time: 7 to 9 weeks
Transplant to finish: 10 to 14 weeks (LD)

USDA Hardiness Zones: 6 to 9 (-10 to 20°F/-23 to -7°C minimum temperatures)

A First-Year-Flowering Perennial.
Supplied as raw seed.

Attractive spreading plant with two-toned flowers that changes from white to rose. Durable and long-flowering variety is well-suited to hanging baskets, planters and borders; excellent for use as a groundcover.

ERYSIMUM 🌻

Erysimum perovskianum

Goldrush

Height: 10 to 14 in./25 to 35 cm
Spread: 8 to 12 in./20 to 30 cm

Plug crop time: 6 to 7 weeks
Transplant to finish: 10 to 14 weeks

USDA Hardiness Zones: 6 to 9 (-10 to 20°F/-23 to -7°C minimum temperatures)

A First-Year-Flowering Perennial.
Supplied as raw seed.

Rich-flowering, compact strain produces short, sturdy flower stems topped by large, fragrant flower heads. Uniform, compact and early-blooming. Recommended sowing time is February to April.

ERYSIMUM 🌻

Erysimum species

Citrona® Series

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

Plug crop time: 4 weeks
Transplant to finish: 7 to 9 weeks

Supplied as raw seed.

Very floriferous, well-branched plants display bright, scented blooms in Spring and Autumn. No vernalization needed. Matches pansy production well; grow in premium packs, 4-in./10-cm pots and gallons.

EUPHORBIA 🌻

Euphorbia marginata

Kilimanjaro

Height: 36 in./90 cm (under long days)
Spread: 8 to 10 in./20 to 25 cm

Plug crop time: 4 to 5 weeks
Transplant to finish: 8 to 12 weeks

Supplied as raw seed.

Pure white bracts contrast well with the green foliage. Tall, strong stems have short side branches, just below the bracts. Can be direct sown in greenhouse or outdoor production, with very short harvesting period - 3 to 4 months from sow to flowering.

FESTUCA

See Grasses in **PanAmerican Seed**, page 47.

mesa



GAILLARDIA 🌻
Gaillardia x grandiflora

Mesa F1 Series

Height: 14 to 16 in./35 to 40 cm
Spread: 20 to 22 in./50 to 55 cm

Plug crop time: 5 to 6 weeks
Transplant to finish: 11 to 13 weeks

USDA Hardiness Zones: 5 to 10 (-20 to 30°F/-29 to -1°C minimum temperatures)

A First-Year-Flowering Perennial. Supplied as clean seed.

The first F1 gaillardia from seed puts out lots of fast colour on "no-flop" plants.

- Strong, early-flowering, well-branched plants fill gallon containers quickly and maintain a controlled height without "flopping" over.
- Uniform habit and flowering time make Mesa easy to schedule and ship.
- Very drought tolerant once established, with intense, non-fading colour all season.
- Upright, well-branched plants perform well in landscapes and mixed containers.

New Peach is slightly earlier than rest of series and 2 to 4 in./5 to 10 cm shorter than Bright Bicolor and Yellow.

New Peach



Bright Bicolor



Yellow All-America Selections Winner, Fleuroselect Gold Medal



GAURA 
Gaura lindheimeri

New Sparkle White

Height: 12 to 24 in./30 to 60 cm
Spread: 12 to 20 in./30 to 50 cm

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

USDA Hardiness Zones: 5b to 9 (-15 to 20°F/-23 to -7°C minimum temperatures)

A First-Year-Flowering Perennial. Supplied as raw seed.

Early-blooming, naturally compact and free-flowering variety is easy to grow, with no pinching necessary. Can be finished in 4 to 6-in. (10 to 15-cm) pots to save labour and bench time. Durable, drought-tolerant variety is compact enough for containers, floriferous enough to use as a bedding plant.

The Bride

Height: 32 to 40 in./80 to 100 cm
Spread: 12 to 16 in./30 to 40 cm

Plug crop time: 6 to 7 weeks
Transplant to finish: 11 to 13 weeks

USDA Hardiness Zones: 6 to 9 (-10 to 20°F/-23 to -7°C minimum temperatures)

A First-Year-Flowering Perennial. Supplied as raw seed.

Attractive, tall perennial produces spikes with large, graceful, clear white flowers. Uniform plant habit with strong basal branching. Heat resistant, low water needs. An adornment to any border, and ideal for backyard cut flower bouquets.

GAULTHERIA 
Gaultheria procumbens

Very Berry

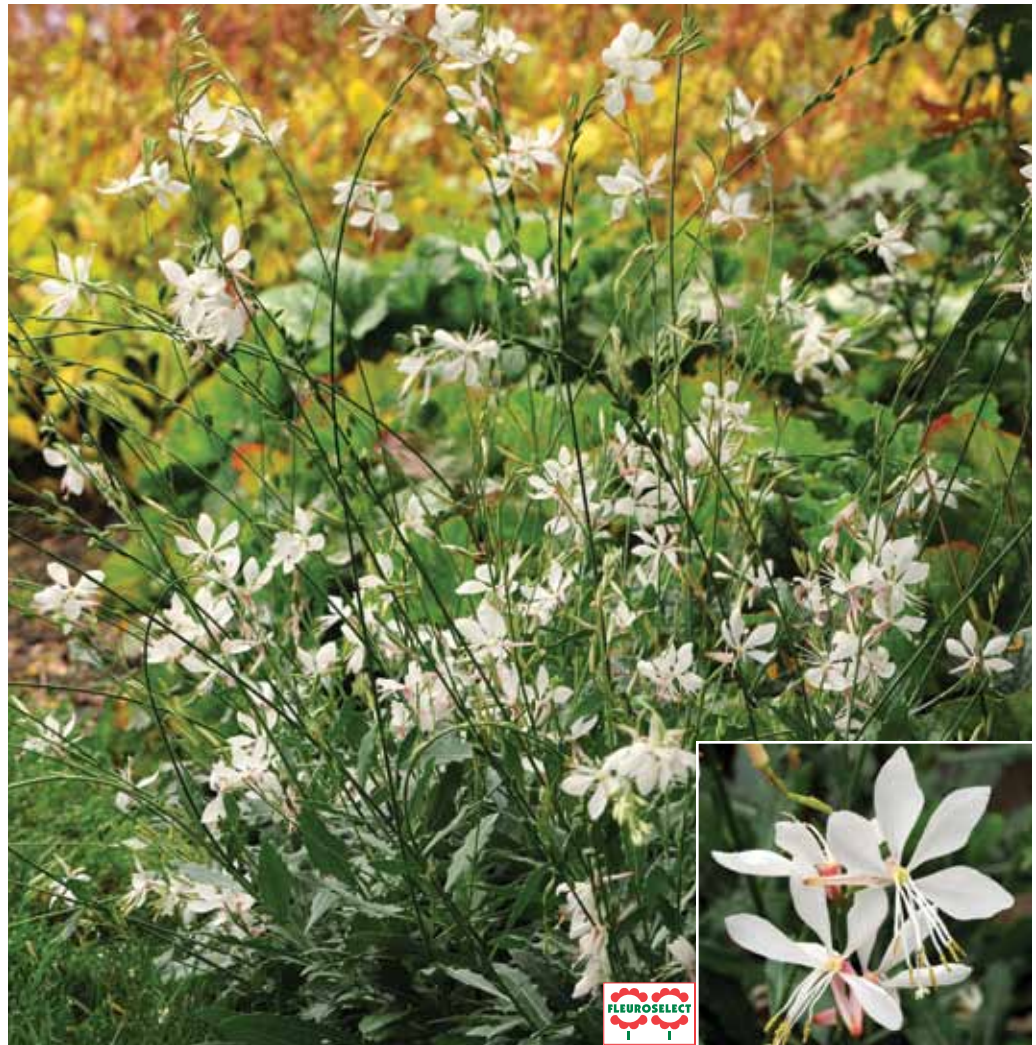
Height: 5 to 6 in./12 to 15 cm
Spread: 6 to 8 in./15 to 20 cm

Plug crop time: 8 to 12 weeks
Transplant to finish: 8 to 12 months

USDA Hardiness Zones: 6 to 9 (-10 to 20°F/-23 to -7°C minimum temperatures)

Supplied as TunedSeeds.

Compact and uniform, evergreen shrub displays white flowers in July/August, followed by large, ornamental red berries. An appealing and durable product for Autumn and Winter sales, indoor and outdoor use. High percentage of usable plants from plug.



New Sparkle White Gaura Fleuroselect Gold Medal



New Sparkle White Gaura



The Bride Gaura



Very Berry Gaultheria

revolution collection

F1 GERBERA 
Gerbera jamesonii

Revolution F1 Collection

The Revolution collection delivers quick crop time across all series. High uniformity enables consistent, fully programmable, high-density crops year round.

Revolution Series

Height: 12 to 16 in./30 to 40 cm
Spread: 5 to 6 in./13 to 15 cm
Flower Size: 2.5 to 3 in./6 to 8 cm

Plug crop time: 6 to 7 weeks
Transplant to finish: 8 to 10 weeks

Supplied as coated seed.

Revolution is the leading standard size pot gerbera series for uniformity of flowering window across the entire colour range. Industry-leading seed quality. Good for 4.5/quart to 5-in./11 to 13-cm programs.

New Golden Yellow with Dark Eye replaces Golden Yellow Shades.

New Scarlet Red with Dark Eye replaces both Scarlet with Dark Eye and Red Shades with Dark Eye.

New Classic Mixture has a broad range of bright and pastel colours and replaces Formula Mixture.

New Select Mixture is a uniform mix of bold, bright colours.

revolution collection



New Revolution Select Mixture



New Revolution Golden Yellow with Dark Eye



Revolution Light Salmon with Dark Eye Formerly Baby Pink



Revolution Neon Rose with Dark Eye



Revolution Pastel Orange with Dark Eye



Revolution Pastel Pink Shades with Dark Eye



Revolution Pink with Light Eye



Revolution Red with Dark Eye



Revolution Rose Shades



New Revolution Scarlet Red with Dark Eye



Revolution Spring Pastels



Revolution Terracotta



Revolution White



Revolution Yellow with Dark Eye



Revolution Yellow with Light Eye



New Revolution Classic Mixture

revolution collection



Mega Revolution Champagne



Mega Revolution Golden Yellow with Dark Eye



Mega Revolution Orange with Dark Eye



Mega Revolution Scarlet with Dark Eye



Mega Revolution White



New Mega Revolution Select Mixture



Mega Revolution Purple Shades



Mega Revolution Rose with Light Eye



Mega Revolution Watermelon



Mega Revolution Yellow Shades



New Mega Revolution Classic Mixture

Mega Revolution Series

Height: 12 to 16 in./30 to 40 cm

Spread: 8 in./20 cm

Flower Size: 3.5 to 4 in./9 to 10 cm

Plug crop time: 6 to 7 weeks

Transplant to finish: 8 to 10 weeks

Supplied as coated seed.

Mega Revolution produces vigorous, bushy plants with very large flowers, making it ideal for 6-in./15-cm and larger containers.

New Classic Mixture is a broad range of bright and pastel colours and replaces Formula Mixture.

New Select Mixture is a uniform mix of bright, bold colours.

revolution collection

Micro Revolution Irish Eyes Mixture

Height: 8 to 10 in./20 to 25 cm
Spread: 4 to 5 in./10 to 13 cm
Flower Size: 1 to 1.5 in./3 to 4 cm

Plug crop time: 6 to 7 weeks
Transplant to finish: 8 to 10 weeks

Supplied as coated seed.

Very compact mix with 100% light green-eyed varieties provides a wide range of colours, including pastels and bicolours. Contains more than 50% double and semi-double flowers. Ideal for very small pot, 3-in./8-cm programs.



Micro Revolution Irish Eyes Mixture



New Midi Revolution Scarlet with Dark Eye

New Midi Revolution Scarlet with Dark Eye

Height: 10 to 12 in./25 to 30 cm
Spread: 4.5 to 5 in./11 to 13 cm
Flower Size: 2.5 in./6 cm

Plug crop time: 6 to 7 weeks
Transplant to finish: 8 to 10 weeks

Supplied as coated seed.

Intermediate type falls between Revolution and Mini Revolution, with a slightly smaller flower and plant size than Revolution for easy high-density production. Good for 3.5 to 4.5-in./9 to 11-cm pots.



Mini Revolution Mixture

Mini Revolution Series

Height: 8 to 10 in./20 to 25 cm
Spread: 4 to 5 in./10 to 12 cm
Flower Size: 2 to 2.5 in./5 to 6 cm

Plug crop time: 6 to 7 weeks
Transplant to finish: 8 to 10 weeks

Supplied as coated seed.

Genetically compact pot Gerbera is early to flower, with excellent plant habit and short stem length. Ideal for 3.5 to 4-in./9 to 10-cm pots.



Mini Revolution Orange with Light Eye



Mini Revolution Red with Dark Eye



Mini Revolution Red with Light Eye



Mini Revolution Rose



Mini Revolution White



Mini Revolution Yellow



Pixie Splash Gypsophila



Malachite Heuchera
Fleuroselect Novelty



QIS Carmine Gomphrena *Fleuroselect Quality Award*



QIS Orange Gomphrena



QIS Red Gomphrena



Double Shine Helianthus

GOMPHRENA 🌻
Gomphrena haageana

QIS Series

Height: 24 to 26 in./60 to 70 cm
Spread: 8 to 10 in./20 to 25 cm

Plug crop time: 5 to 6 weeks
Transplant to finish: 10 to 12 weeks

Supplied as clean seed.

First-class professional cut flower series for greenhouse and outdoor production produces 1 to 1.5-in./2.5 to 3.5-cm flowers on stems with good uniform length. Suitable for fresh and dried use. Long vase life - more than 14 days without preservatives.

Mixture (Not pictured)

GYPSOPHILA 🌻🌻
Gypsophila cerastioides

Pixie Splash

Height: 3 to 5 in./8 to 12 cm
Spread: 4 to 7 in./10 to 18 cm

Plug crop time: 5 to 6 weeks
Transplant to finish: 26 to 40 weeks

USDA Hardiness Zones: 4 to 7 (-30 to 0°F/-34 to -18°C minimum temperatures)

Supplied as TunedSeeds.

Early Spring perennial offers reliable seed quality and germination, uniform and compact habit, and short harvest window. Long-lasting on the shelf for minimum waste. Great for borders, hanging baskets and containers. Recommended sowing time July to August.

HELIANTHUS
BEDDING & POT HELIANTHUS
See **PanAmerican Seed**, page 52.

HELIANTHUS 🌻
Helianthus annuus

Double Shine F1

Height: 60 in./1.5 m
Greenhouse: 70 in./1.75 m
Spread: 8 to 10 in./20 to 25 cm

Plug crop time: 3 weeks
Transplant to finish: 9 to 10 weeks

Supplied as coated seed.

Fully double, 8-in./20-cm, golden yellow flowers on strong stems. Suitable for greenhouse or outdoor production, length will vary according to light and culture conditions. Preferable: 12 to 13-week production period when direct-sown in May/June.

HEUCHERA 🌻🌻
Heuchera hybrid

Malachite

Height: 8 in./20 cm
Foliage: 18 in./45 cm
Spread: 12 to 14 in./30 to 35 cm

Plug crop time: 8 to 10 weeks
Transplant to finish: 12 to 16 weeks

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

Supplied as pelleted seed.

Uniform, attractive seed Heuchera with excellent varietal quality is cost effective and easy to grow as a plug. Produces large, full plants with heavily curled, intense green leaves. Strong garden performer has good weather tolerance. Excellent for mixed combos.



Melting Fire Heuchera
Fleuroselect Novelty European Community
 Plant Variety Rights Number 20557

Melting Fire

Height: 8 in./20 cm
Flower: 18 in./45 cm
Spread: 12 to 14 in./30 to 35 cm
Plug crop time: 8 to 10 weeks
Transplant to finish: 12 to 16 weeks

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

Supplied as pelleted seed.

Companion to Malachite is just as uniform, with the same excellent quality, cost-effective production, strong garden performance and good weather tolerance. Large plants display strong curled leaves in intense purple-red. True tissue culture alternative.



Palace Purple Heuchera



Luna Pink Swirl Hibiscus

HEUCHERA 🌱

Heuchera micrantha

Palace Purple

Height: 10 in./25 cm
Flower: 20 in./50 cm
Spread: 14 to 16 in./35 to 40 cm

Plug crop time: 6 to 8 weeks
Transplant to finish: 10 to 12 weeks

USDA Hardiness Zones: 4 to 7 (-30 to 0°F/-34 to -18°C minimum temperatures)

Supplied as pelleted seed.

Compact variety has highly attractive ornamental foliage of strong bronze-purple, with small white flowers appearing later. The dark leaf colour offers outstanding contrast in borders and mixed containers. Excellent germination. *PPA Perennial Plant of the Year 1991*



Luna White Hibiscus

HIBISCUS 🌻

Hibiscus moscheutos

Luna F1 Series

Height: 2 to 3 ft./60 to 90 cm
Spread: 2 ft./60 cm

Plug crop time: 3 to 4 weeks
Transplant to finish: 10 to 13 weeks

USDA Hardiness Zone: 5 to 9 (-20 to 20°F/-29 to -7°C minimum temperatures)

A First-Year-Flowering Perennial. Supplied as raw seed.

Produces big, bushy, well-branched plants without pinching. Numerous 6 to 8-in./15 to 20-cm flowers. Ideal for large containers; can also be planted in the ground as a perennial. Very responsive to growth regulators. Reliable seed availability with a significantly high germination compared to other seed varieties.

Pink Swirl is slightly shorter and a few days earlier to flower than Red and Blush. Rose has the largest flowers in the series, similar to Red. Compact habit is similar to Pink Swirl. Flowers slightly earlier than others in the series. White flowers a few days earlier than Red and Blush, with vigour similar to Red.

Mixture (Not pictured)



Luna Red Hibiscus



Luna Rose Hibiscus



Snowflake Iberis



Candy Cane Lilac Iberis



Candy Cane Purple Iberis



Hidcote Blue Strain Lavandula



Candy Cane Red Iberis



Candy Cane Rose Iberis



Candy Cane White Iberis



Cheron Pink Incarvillea



Cheron White Incarvillea



Lavance Lavandula European Community Plant Variety
Rights Number EU17706

IBERIS ☀

Iberis sempervirens

Snowflake

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

Plug crop time: 6 to 8 weeks
Transplant to finish: 36 to 40 weeks

USDA Hardiness Zones: 3 to 8 (-40 to 10°F/-40 to -12°C minimum temperatures)

Supplied as raw seed.

Ideal for perennial overwintered production. Plants are blanketed with mid-sized, white flower clusters on uniform, neatly spreading plants with good foliage quality. Excellent in mass plantings and balcony tubs. Recommended for sowing in May and June.

IBERIS ☀

Iberis umbellata

Candy Cane Series

Height: 13 to 14 in./30 to 35 cm
Spread: 8 to 10 in./20 to 25 cm

Direct sowing to finish: 10 to 14 weeks

Supplied as raw seed.

Fast-growing plants are well-suited to mass plantings, large beds and edgings, producing a striking colour display. The uniform habit means versatile Candy Cane can also be used as a cut flower, and produced as a pot plant for Mother's Day.

Mixture (Not pictured)

INCARVILLEA ☀☀

Incarvillea sinensis

Cheron Series

Height: 10 to 20 in./25 to 50 cm
Spread: 6 to 8 in./15 to 20 cm

Plug crop time: 4 to 6 weeks
Transplant to finish: 7 to 8 weeks

Supplied as raw seed.

Unusual annual with a short crop time. Plants produce fernlike foliage and delicate, trumpet-shaped flowers that stand horizontal in 4 to 5-in./10 to 12-cm pots. The strong, sturdy plants flower freely all season, and are highly suited for borders and patios.

ISOTOMA

See **PanAmerican Seed**, page 61.

LAVANDULA ☀

Lavandula angustifolia

Hidcote Blue Strain

Height: 12 to 20 in./30 to 50 cm
Spread: 12 to 14 in./30 to 35 cm

Plug crop time: 6 to 7 weeks
Transplant to finish: 14 to 16 weeks (24 to 38 weeks overwintered.)

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

Supplied as TunedSeeds.

Suitable for professional plug production, this highly uniform perennial lavender strain requires an overwintering period. Produces large, deep blue flower heads on relatively tall flower spikes over contrasting grey-green foliage. Flowers June to September.

Lavance

Height: 10 to 20 in./25 to 50 cm
Spread: 10 to 12 in./25 to 30 cm

Plug crop time: 5 to 6 weeks
Transplant to finish: 14 to 16 weeks (24 to 38 weeks overwintered.)

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

A First-Year-Flowering Perennial. Supplied as TunedSeeds.

The most intense spike and flower colour of all seed lavenders on a uniform, compact plant. Best for late Spring and Summer production, longer days and higher temperature. Can also be scheduled for a traditional overwintering (O.W.) production with potting in Weeks 28 to 32. NOTE: Lavance does not grow quickly in cool climates.



Ellagance Pink



Ellagance Snow *Fleuroselect Novelty*



Ellagance Sky *Fleuroselect Gold Medal*



Ellagance Series

Height: 12 to 14 in./30 to 35 cm
Spread: 10 to 12 in./25 to 30 cm

Plug crop time: 5 to 6 weeks
Transplant to finish: 10 to 14 weeks (24 to 36 weeks overwintered.)

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

A First-Year-Flowering Perennial. Supplied as TunedSeeds.

Ellagance stands out from other seed and vegetative lavenders for its excellent uniformity, colour range, earliness and spike quality!

- Excellent branching fills pots quickly and finishes with large, dense flower spikes and very strong stems.
- Spreading and upright plants have rich gray-green foliage.
- Winter hardy and cold-tolerant with good tolerance to foliar diseases compared to other lavenders.
- High uniformity means harvest times are short and comparable to any vegetative variety.
- Ships well, long-flowering in perennial beds and patio planters.



Ellagance Ice
Fleuroselect Quality Award



Ellagance Purple
Fleuroselect Gold Medal





Mini Blue Lavandula

Mini Blue

Height: 10 to 20 in./25 to 50 cm
Spread: 12 to 14 in./30 to 35 cm

Plug crop time: 5 to 6 weeks
Transplant to finish: 10 to 14 weeks (24 to 36 weeks O.W.)

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

A First-Year-Flowering Perennial.
Supplied as TunedSeeds.

The showiest *L. angustifolia* for overwintered production!

- Compact, well-branched plants don't need trimming, ship well and won't lodge open in the garden.
- Highly uniform, high yielding, long flowering and very floriferous.
- Bred for large-scale, overwintered pot production but also works well in first-year-flowering programs.
- Strong-stemmed, spreading plants produce many eye-catching flower spikes over rich gray-green foliage.
- Winter hardy and cold tolerant, with good tolerance to foliage diseases.



Spanish Eyes Lavandula



Twins Cool White Lavatera
Fleuroselect Quality Award



Twins Hot Pink Lavatera *Fleuroselect Gold Medal*

LAVANDULA 🌞
Lavandula multifida

Spanish Eyes

Height: 16 to 25 in./40 to 70 cm
Spread: 20 to 30 in./50 to 75 cm

Plug crop time: 5 to 6 weeks
Transplant to finish: 10 to 12 weeks

USDA Hardiness Zones: 7 to 10
 (0 to 30°F/-18 to -1°C minimum temperatures)

Supplied as raw seed.

Fast-growing annual/tender perennial all Summer, right until frost. Soft-textured and finely cut fernleaf foliage is topped by branched, 4-in./10-cm spikes that are beautiful in bud and stunning when blooms open. Free-flowering in pot and garden.

LAVATERA 🌞🌞
Lavatera trimestris

Twins Series

Height: 12 to 20 in./30 to 50 cm
Spread: 12 to 20 in./30 to 50 cm

Plug crop time: 3 to 5 weeks
Transplant to finish: 8 to 10 weeks

Supplied as raw seed.

Award-winning compact series delivers a short, 10 to 14-week crop time plus highly uniform habit and vigour. Blooms from May to September and stays healthy all season. Plants stay compact in containers, but reach full height and spread in garden beds.



Mixture

LIMONIUM (STATICE) ☀️
Limonium sinuatum

Fortress Series

Height: 24 to 30 in./60 to 75 cm
Spread: 12 in./30 cm

Plug crop time: 4 to 5 weeks
Transplant to finish: 18 to 24
Supplied as raw seed.

Delivers excellent uniformity and timing. Suitable for greenhouse or field cut flower production, as well as home garden cut flowers. Popular for both fresh and preserved cut flower production, Fortress produces clusters of bright papery flowers on long, sturdy stems.



Apricot



Dark Blue



Heavenly Blue



Purple



White



Rose



Yellow



QIS Formula Mixture Limonium



QIS Apricot Limonium



QIS Dark Blue Limonium



QIS Lavender Limonium



QIS Pale Blue Limonium



QIS Rose Limonium



QIS Soft Pastel Shades Limonium



QIS White Limonium



QIS Yellow Limonium



Sunset Limonium



Delft Blue Lobelia

QIS Series

Height: 30 to 35 in./75 to 90 cm

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

Plug crop time: 4 to 5 weeks

Transplant to finish: 18 to 22 weeks

Supplied as raw seed.

Widely recognized by professional cut flower growers in the world, QIS ('Quality in Seed') is a considerable improvement over standard varieties in uniformity, colour, flower size and stem quality. Suitable for greenhouse and outdoor production, the plants produce clouds of tiny, non-shattering flowers, and deliver shipability and long vase life.

Sunset

Height: 30 in./75 cm

Spread: 12 in./30 cm

Plug crop time: 4 to 5 weeks

Transplant to finish: 18 to 24 weeks

Supplied as raw seed.

Very popular with cut flower growers for fresh and dried sales, Sunset produces flowers in warm tones of apricot, peach, orange and rose red.

LOBELIA *Lobelia valida*

Delft Blue

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

Spread: 12 to 16 in./30 to 40 cm

Plug crop time: 8 to 10 weeks

Transplant to finish: 10 to 12 weeks

USDA Hardiness Zones: 7 to 9 (0 to 20°F/-18 to -7°C minimum temperatures)

Supplied as pelleted seed.

Half-hardy perennial Lobelia makes compact, sturdy and well-branched plants. Produces intense blue flowers with white eye atop green, tooth-edged, succulentlike foliage. This self-cleaning, long-flowering variety is weather-tolerant in both wet and dry conditions.



Gallery Mixture Lupinus



Gallery Blue Lupinus



Gallery Pink Lupinus



Gallery Red Lupinus



Gallery White Lupinus



Gallery Yellow Lupinus

LUPINUS 🌻 🌻
Lupinus polyphyllus

Gallery Series

Height: 16 to 20 in./40 to 50 cm
Spread: 8 to 10 in./20 to 25 cm

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

USDA Hardiness Zones: 4 to 7 (-30 to 0°F/-34 to -18°C minimum temperatures)

A First-Year-Flowering Perennial.
Supplied as TunedSeeds.

Ideal Lupin series for professional 3.5 to 4-in./9 to 10-cm pot production. Full flower spikes are attractive at retail. Works well in patio planters.

LYSIMACHIA 🌻
Lysimachia atropurpurea

Beaujolais

Height: 16 to 20 in./40 to 50 cm
Spread: 14 to 16 in./35 to 40 cm

Plug crop time: 7 to 8 weeks
Transplant to finish: 16 to 20 weeks

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

A First-Year-Flowering Perennial.
Supplied as raw seed.

Upright-growing and sturdy, this hardy perennial displays ornamental, waxy green leaves and deep wine-red flower spikes. Great for gallon containers, Beaujolais works well in borders and landscapes; can also be used as backyard cut flower.



Beaujolais Lysimachia



Vegmo Single Matricaria



Aida Cherry Blossom Matthiola



Aida Blue Matthiola



Aida Blueberry Matthiola



Aida White Matthiola



Vegmo Snowball Extra Matricaria



Vegmo Sunny Ball Gold Matricaria



Aida Deep Rose Matthiola



Aida Lavender Matthiola



Aida Light Plum Matthiola

MATRICARIA ☀

Tanacetum parthenium

Vegmo Series

Height: 28 to 36 in./70 to 90 cm

Plug crop time: 4 to 5 weeks

Transplant to finish: 7 to 12 weeks

Supplied as pelleted seed.

Excellent, fast, year-round crop that is ideal for use as a filler in bouquets, with a good post-harvest life. Double flowers are held above lacy, fragrant foliage, with nice stem quality plus good flower range and bud count.

Yellow (Not pictured)

MATTHIOLA (STOCK) ☀

Matthiola incana

BEDDING MATTHIOLA
See **PanAmerican Seed**, page 75.

NORTHERN GREENHOUSE SELECTABLE CUT FLOWER MATTHIOLA

Location: Greenhouse

Plug crop time: 5 to 6 weeks

Transplant to finish: 4 to 12 weeks

Supplied as raw seed.

Bred for specific seasonal performance, the Aida, Carmen and Figaro series team up with the Opera series to offer an outstanding lineup of greenhouse-grown selectable

Matthiola for year-round production. Aida, Carmen and Figaro are well-matched for timing and deliver very uniform plant performance. Transplanting for seasons earlier than listed will result in later flowering.

Greenhouse-grown Matthiola are distinguished from field-grown types by the softer green leaves. NOTE: Selectable Matthiola will produce approximately 50% double-flowering types, but it is easy to select out the single-flowered types at the young plant stage. Refer to the Product Information Guide for details.

Aida Series

(Spring-flowering, Group 2)

Stem length: 32 in./80 cm

Under northern European conditions, transplant Aida varieties in January/ April for flowering in April/June.

Apricot (Not pictured)



Figaro Lavender



Figaro Light Rose



Carmen Purple



Carmen Yellow



Lucinda Cream



Lucinda Dark Rose



Lucinda Deep Blue

Figaro Series

(Winter-flowering, Group 1)

Stem length: 32 in./80 cm

Under northern European conditions, transplant Figaro varieties in January and February for flowering in April and May.

Carmen Series

(Summer-flowering, Group 3)

Stem length: 32 in./80 cm

Under northern European conditions, transplant Carmen varieties in March and April for flowering in June and July.

Lucinda Series

(Spring-flowering, Group 2)

Stem length: 27 to 30 in./65 to 75 cm

Strong-stemmed, mid-early type is also suitable for Autumn flowering.

EXTRA-EARLY-FLOWERING
TUNNEL AND FIELD-GROWN
CUT FLOWER MATTHIOLA
See **PanAmerican Seed**, page 76.



Lucinda Lavender



Lucinda Light Rose



Lucinda Purple Violet



Lucinda Red



Lucinda White



Lucinda Mixture



Opera Aida Matthiola



Opera Daphne Matthiola



Touchy Tina Mimosa



Opera Debora Matthiola



Opera Francesca Matthiola



Bells of Ireland Molucella



Bergamo Monarda Fleuroselect Gold Medal



Opera Series

Stem length: 32 in./80 cm

Bred for optimal performance in cooler greenhouse conditions and recommended for Autumn to late Spring-flowering. Production is possible year-round if cool Summer temperatures are maintained in the greenhouse.

Fedora Deep Rose (Not pictured)

Leonora (Not pictured)

MIMOSA

Mimosa pudica

Touchy Tina

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

Spread: 16 to 36 in./40 to 90 cm; dependent on location and plant age

Plug crop time: 4 to 6 weeks

Transplant to finish: 4 to 6 weeks (sold green)

Supplied as cleaned seed.

Easy-to-grow "sensitive plant" plant produces fernlike green foliage which folds together when touched. Flowers are pink.

MOLUCELLA 🌻

Molucella laevis

Bells of Ireland

Height: 24 to 32 in./60 to 80 cm

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

Total crop time from direct sow: 14 to 19 weeks

Supplied as coated seed.

With its unusual spires of green, bell-formed blooms, Bells of Ireland can be used fresh or dried, and adds interest to mixed bouquets. Small, hand-shaped leaves on the flower spikes are removed after cutting for optimum ornamental value. NOTE: The seed coating aids in visibility during sowing and holds a Thiram fungicidal addition to protect young plants in early emergence stage.

MONARDA 🌻

Monarda hybrida

Bergamo

Height: 20 to 24 in./50 to 60 cm

Spread: 16 to 20 in./40 to 50 cm

Plug crop time: 6 to 7 weeks

Transplant to finish: 10 to 12 weeks

USDA Hardiness Zones: 6 to 8 (-10 to 10°F/-23 to -12°C minimum temperatures)

A First-Year-Flowering Perennial.

Supplied as raw seed.

Unique, compact variety provides a long-lasting display in the garden, with rose-purple flowers in clusters around the stem. Much earlier flowering than other Monarda, blooming from June until first frost. Excellent mildew tolerance. Suitable for pot production or direct sowing.

MYOSOTIS

(FORGET-ME-NOT) 🌻

Myosotis sylvatica

Mon Amie Blue

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

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

Plug crop time: 4 weeks

Transplant to finish: 5 to 9 weeks

Supplied as raw seed.

Send your crop to market 3 to 6 months earlier than biannual Myosotis varieties as no vernalization is needed for flowering. Can be a good choice for annual programs and can be reliably scheduled for Autumn or Spring. Media/soil pH requirements are similar to *Primula acaulis*. Good for 306 premium packs and 4.5-in./11-cm pots.

NASTURTIIUM

See **PanAmerican Seed**, page 81.



Mon Amie Blue Myosotis
U.S. PVP Number 200800070



Moondance Papaver



Champagne Bubbles Orange Papaver



Champagne Bubbles Pink Papaver



Champagne Bubbles Scarlet Papaver



Blue Moon Nepeta



Pink Cat Nepeta
Fluroselect Quality Award



Navigator Penstemon
Fluroselect Quality Award



Champagne Bubbles White Papaver



Champagne Bubbles Yellow Papaver



Champagne Bubbles Mixture Papaver

NEPETA 🌞
Nepeta nervosa

Blue Moon Pink Cat

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

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

USDA Hardiness Zones: 4 to 7 (-30 to 0°F/-34 to -18°C minimum temperatures)

A First-Year-Flowering Perennial. Supplied as raw seed.

Uniform strains produce large, dense flower spikes on full, bushy plants that flower early and then freely all season. Well-suited to container production. Gives a colourful display in well-drained soil and takes the heat. Recommended sowing time March to May.

NIEREMBERGIA
Robe Series see **PanAmerican Seed**, page 81.

PANSY
Promise Series see **PanAmerican Seed**, page 89.

PAPAVER (POPPY) 🌞
Papaver miyabeianum

Moondance

Height: 6 to 8 in./15 to 20 cm
Spread: 5 to 7 in./12 to 18 cm

Plug crop time: 6 to 8 weeks
Transplant to finish: 10 to 12 weeks

USDA Hardiness Zones: 4 to 7 (-30 to 0°F/-34 to -18°C minimum temperatures)

A First-Year-Flowering Perennial. Supplied as raw seed.

Compact, easy-to-grow variety is best for container production. Produces lemon yellow flowers held just 4 in./10 cm over dense rosettes of light green, hairy foliage. The flowers develop later into beautiful, clear green seed pods. Can be produced as an annual.

PAPAVER (POPPY) 🌞
Papaver nudicaule

Champagne Bubbles F1 Series

Height: 15 in./38 cm
Spread: 6 in./15 cm

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

USDA Hardiness Zone: 6 to 8 (-10 to 10°F/-23 to -12°C minimum temperatures)

A First-Year-Flowering Perennial. Supplied as TunedSeeds.

Hybrid vigour delivers uniform flowers, earliness and long-lasting garden performance compared to O.P. varieties. Many large, cup-shaped flowers top bushy, strong-stemmed plants. Performs well in hot-day, cool-night conditions, and is a good Winter item in Florida, California and comparable climates. Well-suited to 4 and 6-in./10 and 15-cm pots.

Citrus Mixture (Not pictured) contains Orange, Yellow, White.

PENSTEMON 🌞
Penstemon barbatus

Navigator

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

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

USDA Hardiness zones: 5 to 7 (-20 to 0°F/-29 to -18°C minimum temperatures)

A First-Year-Flowering Perennial. Supplied as raw seed.

Extremely uniform and compact selection in Penstemon flowers 16 to 20 weeks after sowing. Plants have attractive, grey-green foliage and large, well-rounded flower spikes in a well-balanced mix of red, pink, rose, blue and purple shades. Useful for borders, beds and planters, this half-hardy first year-flowering perennial is well-suited to pot production and best grown as an annual.



Tubular Bells Red
Fleuroselect Novelty



Tubular Bells Rose
Fleuroselect Quality Award



Electric Blue



Tubular Bells Wine Red With White Throat
Fleuroselect Novelty



Carillo Purple
Fleuroselect Novelty



Carillo Rose
Fleuroselect Novelty



New Carillo Red Fleuroselect Gold Medal



PENSTEMON ☀️
Penstemon hartwegii

Tubular Bells Series

Height: 14 to 16 in./35 to 40 cm
Spread: 10 to 14 in./25 to 35 cm

Plug crop time: 6 to 8 weeks
Transplant to finish: 13 to 16 weeks

USDA Hardiness Zones: 7 to 10 (0 to 30°F/-18 to -1°C minimum temperatures)

A First-Year-Flowering Perennial.
Supplied as raw seed.

First series of this type available in separate colours produces self-cleaning plants with good garden performance and long flowering period. Heat-tolerant, North American prairie plant is upright, robust and strong-stemmed. Large flowers in early Summer.

Mixture (Not pictured)

PENSTEMON ☀️
Penstemon heterophyllus

Electric Blue

Height: 18 in./45 cm
Spread: 24 in./60 cm

Plug crop time: 4 to 5 weeks
Transplant to finish: 12 to 13 weeks

USDA Hardiness Zones: 6 to 8 (-10 to 10°F/-23 to -12°C minimum temperatures)

A First-Year-Flowering Perennial.
Supplied as raw seed.

A good performer in warm climates, producing multiple stems with branched spikes holding intense blue flowers. No vernalization is required for flowering. Allow 16 to 18 weeks to flower in a 4-in./10-cm pot.

PENSTEMON ☀️
Penstemon x mexicali

Carillo Series

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

Plug crop time: 6 to 8 weeks
Transplant to finish: Purple and Red 12 to 14 weeks, Rose 13 to 15 weeks

USDA Hardiness Zones: 5 to 7 (-20 to 0°F/-29 to -18°C minimum temperatures)

A First-Year-Flowering Perennial.
Supplied as raw seed.

North American prairie plant now comes in three colours, for an even more saleable series!

- Heat and drought-tolerant.
- Well-branched plants are the most compact of any seed or vegetative varieties, with shiny foliage and clear, strong flower colours.
- Good shelf life; easy-care and long-flowering in landscapes and containers.
- Flowers in early Summer.
- Suited to high-density programs for 4-in./10-cm pots and larger.

New Red was awarded Fleuroselect Gold Medal for breakthrough colour and uniformity.



Violet Dusk Penstemon



Taiga Perovskia



Bambino Blue Polemonium

PENSTEMON ☀️
Penstemon smallii

Violet Dusk

Height: 24 in./60 cm
Spread: 18 in./45 cm

Plug crop time: 4 to 5 weeks
Transplant to finish: 12 to 15 weeks

USDA Hardiness Zones: 6 to 8 (-10 to 0°F/-23 to -12°C minimum temperatures)

A First-Year-Flowering Perennial. Supplied as TunedSeeds.

Branched spikes are covered with many tubular, fade-resistant lavender blooms. Adapted to warm climates, plants prefer dry conditions and light watering. No vernalization is required for flowering. Suitable for 4-in./10-cm pots.

ORNAMENTAL PEPPER
See **PanAmerican Seed**, page 93.

PEROVSKIA ☀️
Perovskia atriplicifolia

Taiga

Height: 40 to 48 in./1 to 1.2 m
Spread: 12 to 16 in./30 to 40 cm

Plug crop time: 7 to 9 weeks
Transplant to finish: 14 to 16 weeks

USDA Hardiness Zones: 4 to 7 (-30 to 0°F/-34 to -18°C minimum temperatures)

A First-Year-Flowering Perennial. Supplied as TunedSeeds.

Attractive, bushy plants have long, feathery, deep sky blue flower spikes and contrasting silvery-green foliage. First year-flowering for late season sales in large pots at 16 to 20-in./40 to 50-cm plant height. Heat and drought-tolerant. *PPA Perennial Plant of the Year 1995 for P. atriplicifolia*

PHLOX
See **PanAmerican Seed**, page 112.

POLEMONIUM ☀️
Polemonium caeruleum

Bambino Blue

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

Plug crop time: 8 to 10 weeks
Transplant to finish: 10 to 14 weeks

USDA Hardiness Zones: 4 to 8 (-30 to 10°F/-34 to -12°C minimum temperatures)

A First-Year-Flowering Perennial. Supplied as raw seed.

Bred for professional container production. Outstanding for earliness and compact, uniform habit, plants have multiple short stems with large blue flower clusters. Performs well in the garden in fertile, well-drained soil. Recommended sowing time is March to May.

POPPY
See **Papaver**.

PRIMULA
Primula acaulis
See **PanAmerican Seed**, page 116.



Noverna Deep Blue Primula



Bells White Pulsatilla



Bells Red Pulsatilla



Bells Violet Pulsatilla



Goldsturm Rudbeckia

PRIMULA 🌻

Primula capitata ssp. *mooreana*

Noverna Deep Blue

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

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

Plug crop time: 8 to 10 weeks

Transplant to finish: 10 to 12 weeks

USDA Hardiness Zones: 4 to 7 (-30 to 0°F/-34 to -18°C minimum temperatures)

A First Year-Flowering Perennial. Supplied as raw seed.

Needs no cold period and flowers abundantly when grown as an annual bedding plant. Produces round clusters of deep blue flowers on powdery white stems, over a rosette of clear green leaves. Excellent, weather-tolerant garden performer, flowering richly from Summer well into Autumn. Recommended sowing time is March to May.

PULSATILLA 🌻

Pulsatilla vulgaris

Bells Series

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

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

Plug crop time: 8 to 10 weeks

Transplant to finish: 30 to 40 weeks

USDA Hardiness Zones: 5 to 7 (-20 to 0°F/-29 to -18°C minimum temperatures)

Supplied as raw seed.

Softly hairy garden plant produces upward-facing, trumpet-shaped, yellow-centred flowers, followed by feathery seed heads. Sow in March and April for Spring sales the following year. NOTE: Pulsatilla is a cold-germinator and pre-cooling is recommended.

RUDBECKIA 🌻

Rudbeckia fulgida var. *sullivantii*

Goldsturm

Height: 24 to 28 in./60 to 70 cm

Spread: 14 to 18 in./35 to 45 cm

Plug crop time: 6 to 8 weeks

Transplant to finish: 20 to 24 weeks

USDA Hardiness Zones: 3 to 9 (-40 to 20°F/-40 to -7°C minimum temperatures)

Supplied as TunedSeeds.

Premium, late Summer-flowering perennial is considered "best in class" for landscapes, also makes a nice cut flower. Upright plants produce a large, single, scentless bloom on every stem, over tight, dark green foliage. Recommended sowing time January to March.



Goldsturm



Irish Eyes

RUDBECKIA 🌻
Rudbeckia hirta

Irish Eyes

Height: 24 to 36 in./60 to 90 cm
Spread: 14 to 18 in./35 to 45 cm

Plug crop time: 6 to 7 weeks
Transplant to finish: 12 to 14 weeks

USDA Hardiness Zones: 7 to 9 (0 to 20°F/-18 to -7°C minimum temperatures)

Supplied as raw seed.

Tender perennial bears large, sunshine yellow flowers with distinct green eye on robust, tall and well-branched plants with contrasting dark green foliage. First-year-flowering variety has a short culture period; grow as an annual.

Moreno

Height: 12 to 20 in./30 to 50 cm
Spread: 10 to 12 in./25 to 30 cm

Plug crop time: 6 to 7 weeks
Transplant to finish: 10 to 12 weeks

USDA Hardiness Zones: 7 to 9 (0 to 20°F/-18 to -7°C minimum temperatures)

Supplied as raw seed.

Vigorous in the garden, producing abundant, large, mahogany-red flowers with golden orange tips. Heat-tolerant, compact and basal branching with a spreading habit. Ideal for landscapes, beds and containers. Tender perennial can also be marketed as an annual.



Moreno Fleuroselect Novelty



Crispy Sagina



Saga Blue Salvia



Purple Volcano Salvia



Marble Arch Mixture Salvia



Patio Deep Blue Salvia
Fleuroselect Quality Award



Patio Sky Blue Salvia
Fleuroselect Quality Award



Hot Trumpets Salvia

SAGINA ☀️
Sagina subulata

Crispy

Height: 4 to 6 in./10 to 15 cm
Spread: 8 to 14 in./20 to 35 cm

Plug crop time: 6 to 7 weeks
Transplant to finish: 9 to 10 weeks

USDA Hardiness Zones: 4 to 7 (-30 to 0°F/-34 to -18°C minimum temperatures)

A First Year-Flowering Perennial. Supplied as raw seed.

Carpet-forming perennial is covered with masses of small, starlike, white flowers. Suitable for annual production. Prefers a well-drained, moderately fertile garden location.

SALVIA ☀️
Salvia splendens

See **PanAmerican Seed**, page 117.

SALVIA ☀️
Salvia farinacea

Saga Blue

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

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

Supplied as raw seed.

Attractive bedding plant produces intense deep blue flower spikes on compact plants with a very well-branched habit and excellent garden vigour. Late Spring and Summer-flowering with good heat tolerance.

SALVIA ☀️
Salvia horminum

Marble Arch Mixture

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

Plug crop time: 5 to 6 weeks
Transplant to finish: 12 to 16 weeks

Supplied as raw seed.

Extremely uniform mix for landscapes, borders and patio planters. Broad upper flower bracts with tiny flowers in intense deep blue, rose and white. Good uniformity in timing, habit, height and flowering window between the colours. Strong weather tolerance.

SALVIA ☀️
Salvia lyrata

Purple Volcano

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

Plug crop time: 6 to 8 weeks
Transplant to finish: 8 to 10 weeks

USDA Hardiness Zones: 6 to 8 (-10 to 10°F/-23 to -12°C minimum temperatures)

A First Year-Flowering Perennial. Supplied as raw seed.

Displays bronze-purple foliage year-round, with white-tipped purple flower spikes all Summer. Leaf colour intensifies to deep purple during late Summer and Autumn. Heat-tolerant. Recommended sowing time is March to June or August to September.

SALVIA ☀️
Salvia patens

Patio Series

Height: 12 to 14 in./30 to 40 cm
Spread: 8 to 12 in./20 to 30 cm

Plug crop time: 5 to 6 weeks
Transplant to finish: 7 to 11 weeks

USDA Hardiness Zones: to 8 to 10 (10 to 30°F/-12 to -1°C minimum temperature)

Supplied as raw seed.

With its excellent branching plant habit, Patio is more compact and richer flowering than similar strains. First-year flowering series works well as an annual. Well-suited to Summer containers and borders/beds. Series includes the most appealing deep blue colour on your bench

SALVIA ☀️
Salvia roemeriana

Hot Trumpets

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

Plug crop time: 6 to 8 weeks
Transplant to finish: 8 to 12 weeks

USDA Hardiness Zones: 7 to 10 (0 to 30°F/-18 to -1°C minimum temperatures)

A First Year-Flowering Perennial. Supplied as raw seed.

Tender perennial displays masses of scarlet flowers on well-branched stems over deep green leaves. Very early to bloom, flowers all season. Compact, uniform plant works well in small to large container production. Recommended sowing time April to May.

new dimension



Blue Fleuroselect Novelty

SALVIA

Salvia nemorosa (superba)

New Dimension Series

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

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

Plug crop time: 5 to 6 weeks

Transplant to finish: Rose 8 to 10 weeks, Blue 9 to 11 weeks

USDA Hardiness Zones: 4 to 8 (-30 to 10°F/-34 to -12°C minimum temperatures)

A First-Year-Flowering Perennial. Supplied as coated seed.

The deepest blue and rose salvia from seed!

- Economical and easy to produce.
- Large, compact and well-branched plants feature strong-coloured flowers that last in the landscape.
- Well-matched series finishes fast with no PGRs needed.
- Fits into annual production schedules.
- Suited to 4-in./10-cm to 2-gallon containers.



Blue Fleuroselect Novelty



Rose Fleuroselect Novelty



Sprite Orange Sanvitalia *Fleuroselect Quality Award*



Sprite Vanilla Sanvitalia *Fleuroselect Novelty*



Sprite Yellow Sanvitalia



Purple Robe Saxifraga



Blue Note Scabiosa *European Community Plant Variety Rights Number EU27547.*



Pink Diamonds Scabiosa

SANVITALIA

Sanvitalia procumbens

Sprite Series

Height: 4 in./10 cm

Spread: 10 to 14 in./25 to 35 cm

Plug crop time: 4 weeks

Transplant to finish: 9 to 11 weeks

Supplied as raw seed.

Trailing annual produces a profusion of tiny, semi-double, sunflowerlike flowers with green centres. Low-maintenance, long-flowering plants work well in beds and baskets - Sprite can take the heat, making it an ideal Summer groundcover.

SAXIFRAGA

Saxifraga x arendsii

Purple Robe

Height: 3 to 5 in./8 to 13 cm

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

Plug crop time: 8 to 10 weeks

Transplant to finish: 40 to 44 weeks

USDA Hardiness Zones: 4 to 7 (-30 to 0°F/-34 to -18°C minimum temperatures)
Supplied as raw seed.

Early-flowering, compact and mounded variety delivers masses of intense purple, star-shaped flowers from March to July, on a uniform plant habit. Good groundcover for borders or filler for perennial containers. Prefers a sunny location that is not too wet.

SCABIOSA

Scabiosa columbaria

Blue Note

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

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

Plug crop time: 6 to 8 weeks

Transplant to finish: 12 to 14 weeks

USDA Hardiness Zones: 5 to 9 (-20 to 20°F/-29 to -7°C minimum temperatures)

A First-Year-Flowering Perennial. Supplied as raw seed.

Uniform and compact, with no PGRs needed in production. Long-flowering, basal-branching plants have dense, dark green foliage and abundant, short-stemmed, clear blue flowers all season. Can be grown as an annual for Summer or overwintered for early Spring sales. Good companion to Pink Diamonds.

SCABIOSA

Scabiosa japonica var. *alpina*

Pink Diamonds

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

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

Plug crop time: 6 to 8 weeks

Transplant to finish: 13 to 15 weeks

USDA Hardiness Zones: 5 to 9 (-20 to 20°F/-29 to -7°C minimum temperatures)

A First-Year-Flowering Perennial. Supplied as raw seed.

Highly uniform, genetically compact plants need no PGRs to produce basal-branching, short-stemmed plants that maintain their perfect shape all season. Dense, dark green leaves are topped with an abundance of long-lasting, soft pink blooms. Can be produced as an annual crop.



Starry Dreams Silene *Fleuroselect Novelty*



Icecups Silene



Yellow Stone Sisyrinchium



Stachys byzantina

SILENE 🌻

Silene alpestris

Starry Dreams

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

Plug crop time: 5 to 6 weeks
Transplant to finish: 10 to 12 weeks

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

A First-Year-Flowering Perennial. Supplied as raw seed.

Starry Dreams has a compact, fresh green leaf cushion from which small, star-shaped, upward-facing pure white flowers emerge. Excellent for container production, with elegant finished quality. Useful in borders and patio planters.

SILENE 🌻

Silene maritima

Icecups

Height: 5 to 7 in./13 to 18 cm
Spread: 6 to 8 in./15 to 20 cm

Plug crop time: 6 to 8 weeks
Transplant to finish: 9 to 11 weeks (LD)

USDA Hardiness Zones: 4 to 7 (-30 to 0°F/-34 to -18°C minimum temperatures)

A First-Year-Flowering Perennial. Supplied as raw seed.

Highly ornamental, with attractive seed pods producing pure white, bell-shaped, upright flowers over full-branching foliage. Richly flowering from May to July, the heat-tolerant plants prefer a semi-shaded location. Works well in annual programs.

SISYRINCHIUM 🌻

Sisyrinchium californicum

Yellow Stone

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

Plug crop time: 7 to 9 weeks
Transplant to finish: 12 to 14 weeks

USDA Hardiness Zones: 7 to 10 (0 to 30°F/-18 to -1°C minimum temperatures)

A First-Year-Flowering Perennial. Supplied as raw seed.

Clean and attractive, sun-loving plant produces large, yellow, star-shaped flowers all Summer long, over compact foliage that resembles an Iris. Uniform and sturdy habit. Well-suited to annual production.

STACHYS 🌻

Stachys byzantina (lanata, olympica)

Height: 16 in./40 cm
Spread: 20 to 24 in./50 to 60 cm

Plug crop time: 6 to 7 weeks
Transplant to finish: 10 to 12 weeks

USDA Hardiness Zones: 5 to 7 (-20 to 0°F/-29 to -18°C minimum temperatures)

Supplied as raw seed.

Strong border plant for larger plantings features evergreen silvery grey leaves with a woolly texture and deep rose flowers. Grow as an annual; mainly used for the foliage.

STATICE
See **Limonium**.

SUNFLOWER
See **Helianthus**.



Golden Dawn Thymophylla



Silverado Tiarella



Lake Forest White Trachelium



Lake Forest Pink Trachelium



Lake Forest Purple Trachelium

THYMOPHYLLA 
Thymophylla tenuiloba

Golden Dawn

Height: 6 in./15 cm
Spread: 12 in./30 cm

Plug crop time: 5 weeks
Transplant to finish: 9 to 12 weeks

Supplied as raw seed.

Long-flowering, spreading plant is covered with daisylike, golden yellow flowers on fine, ferny foliage. Heat and humidity-lover is an excellent performer in hanging baskets, patio planters and garden beds.

TIARELLA 
Tiarella wherryi

Silverado


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

Plug crop time: 8 to 10 weeks
Transplant to finish: 10 to 12 weeks

USDA Hardiness Zones: 4 to 8 (-30 to 10°F/-34 to -12°C minimum temperatures)

A First-Year-Flowering Perennial. Supplied as TunedSeeds.

Eye-catching variety displays delicate, creamy white blooms with a tinge of pink, on densely set flower spikes over silky green foliage with contrasting veins. Long-flowering in semi-shade areas. First-year-flowering variety; grow as an annual. Great for shade or semi-shade.

TRACHELIUM 
Trachelium caeruleum

CUT FLOWER TRACHELIUM

Lake Collection

Stem length: 30 to 42 in./75 to 105 cm

Plug crop time: 7 to 9 weeks
Transplant to finish: 10 to 18 weeks

Supplied as pelleted seed.

Three distinct series for simplified ordering and production to fill year-round orders. Long-day flowering varieties need 16 to 18 hours of daylength to flower and to produce the large central umbel with smaller side umbels or "satellites." Excellent vase life and good shipability. Foliage is medium green unless noted. Suitable for greenhouse, field or garden cut flower production.

Lake Forest Series (Winter-Flowering)

Bred to flower more easily under conditions of shortening daylength. Long days (16 to 18 hours) are still needed to flower, but due to breeding, flowers are initiated more easily, uniformly and quickly. Transplant in Autumn to early Winter for flowering in mid-Winter to early Spring.

Purple has dark green foliage. Fastest to flower in the series.



Lake Louise Blue



Lake Louise White



Lake Michigan Blue



Lake Michigan Purple



Lake Louise Purple



Lake Michigan White



Lake Michigan Violet

Lake Louise Series (Summer-Flowering)

Latest to flower, this Group 4 series has the greatest tolerance for high heat and high light of the Lake Collection. Transplant in late Spring through Summer for Summer through early Autumn flowering.

Purple has dark foliage.

Lake Michigan Series (Spring & Autumn-Flowering)

The greatest potential for year-round production in mild climates. Mid-season flowering (transitional Group 3), for mid-Winter to early Spring transplants to yield late Spring to early Summer flowers. May also be transplanted late Summer to early Autumn for Autumn to early Winter flowering.

Purple has dark green foliage and stems.

Violet has dark reddish foliage and stems.



Southern Charm Verbascum



Temptress Purple Verbascum



Temptress White Verbascum

TROPAEOLUM
Whirlybird Mixture Nasturtium
 see **PanAmerican Seed**, page 77.

VERBASCUM ☀️
Verbascum x hybrida

Southern Charm

Height: 24 to 30 in./60 to 75 cm
Spread: 12 to 18 in./30 to 45 cm

Plug crop time: 4 to 5 weeks
Transplant to finish: 12 to 13 weeks

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

A First-Year-Flowering Perennial.
Supplied as pelleted seed.

Blend of creamy yellow, soft lavender and peachy rose shades, each marked with a fuzzy purple "bee." Florets are arranged in pairs; as the first dies, the second blooms, doubling the life of the flower spike. Plants bloom in Spring, go dormant under high temperatures and rebloom in Autumn. Best sold green in 4.5-in./11-cm pots or in bloom in 1 to 2-gallon containers (8 to 10-in./20 to 25-cm standard pots). No vernalization needed for flowering.

VERBASCUM ☀️
Verbascum phoeniceum

Temptress Series

Height: 24 to 28 in./60 to 70 cm
Spread: 12 to 16 in./30 to 40 cm

Plug crop time: 7 to 8 weeks
Transplant to finish: 11 to 13 weeks

USDA Hardiness Zones: 5 to 7 (-20 to 0°F/-29 to -18°C minimum temperatures)

A First-Year-Flowering Perennial.
Supplied as SowEasy single pellets.

Flat, deep green foliage rosette is topped with multiple, slender flower spikes that hold 0.75-in./2-cm blooms. Plant remains attractive even after flowering, with numerous tiny seedpods along the stems. First-year-flowering for annual production, or sow in August to September for overwintering.

Purple has a smaller rosette than White.



Buenos Aires Verbena



Blue Bouquet Veronica

VERBENA ☀️

Verbena bonariensis

Buenos Aires

Height: 40 to 50 in./1 to 1.5 m
Spread: 12 to 16 in./30 to 40 cm

Plug crop time: 6 to 7 weeks
Transplant to finish: 16 to 18 weeks

USDA Hardiness Zones: 7 to 9 (0 to 25°F/-17 to -3°C minimum temperature)

Supplied as TunedSeeds.

Tall, free-flowering Verbena with open plant habit is grown primarily as an annual and used as a pretty accent plant or height divider in the border. Displays long-lasting, bright lilac-violet flowers.

VERONICA ☀️

Veronica spicata

Blue Bouquet

Height: 12 in./30 cm
Spread: 12 in./30 cm

Plug crop time: 5 to 6 weeks
Transplant to finish: 14 to 16 weeks

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

A First-Year-Flowering Perennial.
Supplied as pelleted seed.

Versatile perennial bedding plant makes an excellent choice for landscapes, and also works well as a cut flower and a pot crop. Tapered blue spikes with many small florets top deep green foliage. Higher soil moisture and soil fertility levels have promoted increased stem length.

VIOLA

See **PanAmerican Seed**, pages 142-143.

index



New Cool Wave® Purple and Golden Yellow Pansy (see page 4)



New Mighty Mosaic Coleus (see page 33)



New Trumpet Pink Snapdragon (see page 126)



New Fuseables Precision Multi-Pellets (see page 12)



New Akila® White Improved Osteospermum (see page 82)



New 'Homeslice' Compact Slicer Tomato (see page 155)

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New Premium Perennial Combos
(see page 157)



New Dalmatian Mix Digitalis
(see page 177)



New Revolution Select Mix Gerbera
(see page 184)



New Sparkle White Gaura
(see page 183)

Circle of Life EcoIndex

Reduce inputs to save money and grow sustainably. Look for the EcoIndex symbols on varieties throughout the catalogue.

Reduce Energy



Identifies products growers can finish successfully with a proven cool-grown, low-energy input program

Reduce Water



Identifies products that deliver superior performance in a landscape/consumer setting under a restricted watering regime

Reduce Chemicals



Identifies products which reduce or eliminate the need for costly and often hazardous chemicals

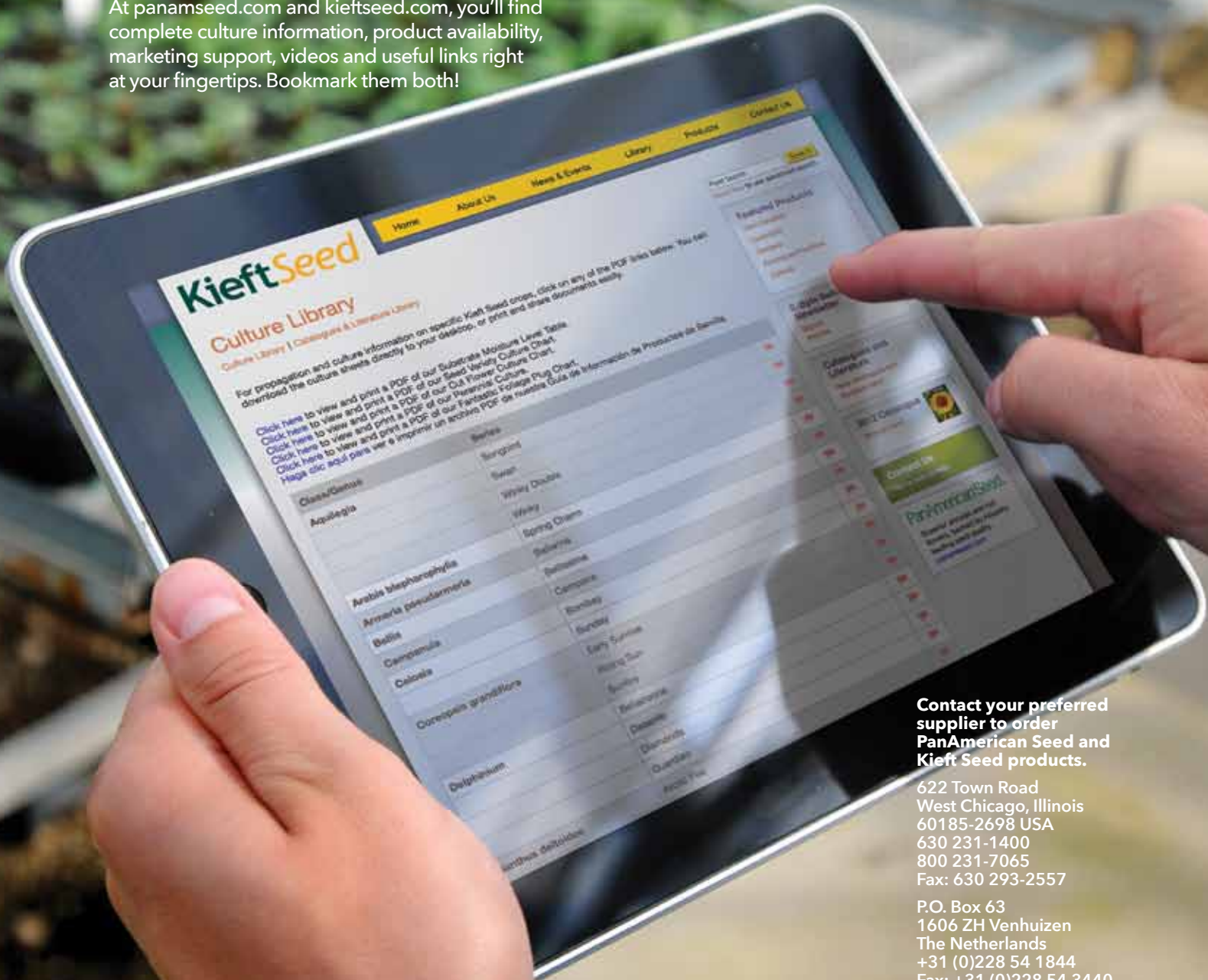
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Beyond the Book

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