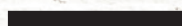


NUMBER 1 FOR SEED

2020 2021 CATALOGUE



CELEBRATING 25 YEARS
OF WAVE®! See page 2

THINK GLOBALLY WITH PANAMERICAN SEED®

PanAmerican Seed is your global partner. We can support your market with the right products that will work for you, better customer service and tech support, the latest seed technology enhancements and controlled production to ensure your growing success.



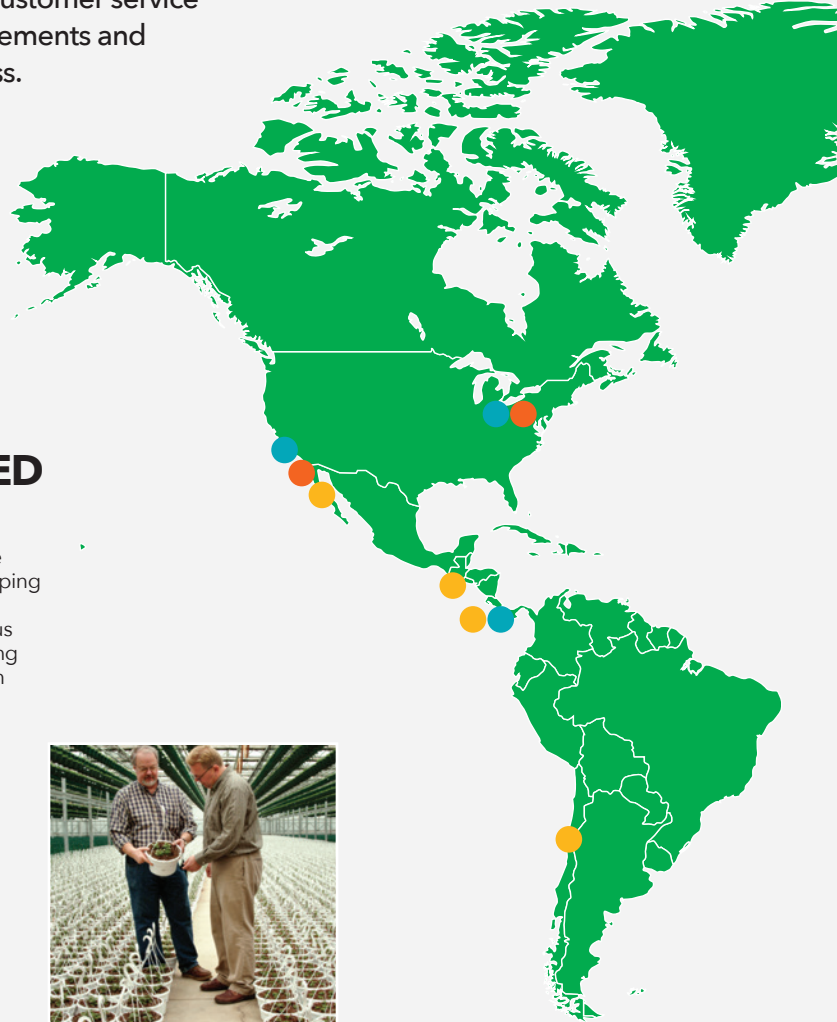
CUSTOMER SERVICE

You'll receive personalized, quality care from our Customer Service Representatives. They take the time to get to know our customers so they can provide the right solutions to help your business succeed.



ENHANCED SEED TECHNOLOGY

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



QUALITY BREEDING

Our breeders constantly fine-tune our products with on-trend colours, impactful performance upgrades, new seed technologies and product efficiencies, all with the goal of improving your profitability.



CONTROLLED PRODUCTION

All of our seed production facilities are consistently monitored to maintain our seed quality. The seed is inspected all the way through our production process, being tested and retested, so we always have a full inventory of high-performance, high-quality seed available when and where you need it.



TECHNICAL SUPPORT

Our technical support team has the expertise to provide support for crop culture, clean environment protocols, plant physiology and pathology, chemical and biological control agents for pests and more, using the most comprehensive resources in the business.

SALES SUPPORT LOCATIONS:

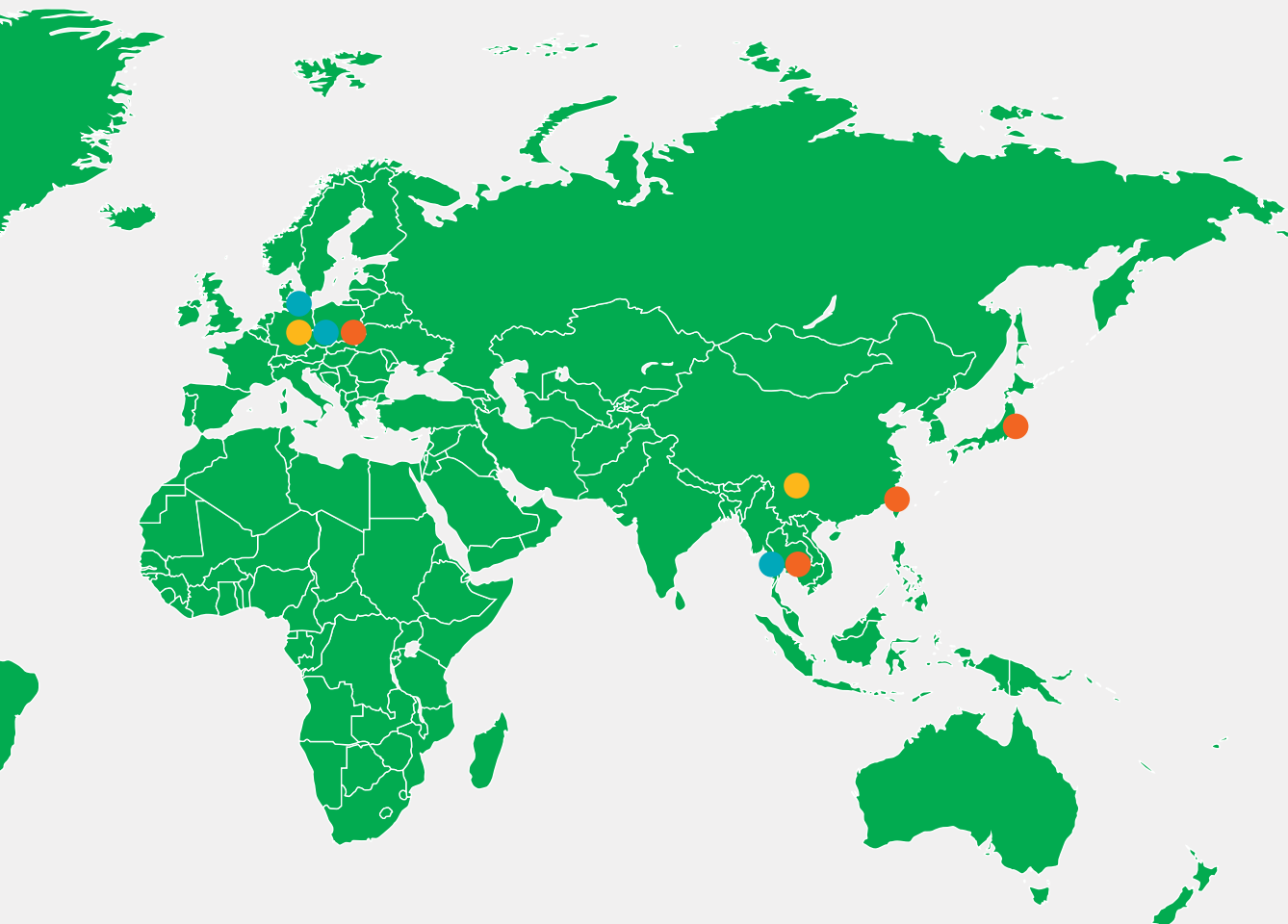
Venhuizen, Netherlands
Illinois, USA
California, USA
Hokuto City, Japan
Chiang Mai, Thailand
Jiangsu Province, China

BREEDING LOCATIONS:

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

PRODUCTION LOCATIONS:

Baja California, Mexico
Yunnan Province, China
Ciudad De Guatemala, Guatemala
Cartago, Costa Rica
Pichidegua, Chile
Venhuizen, Netherlands



Front cover stars:

NEW Campana Deep Blue Improved Campanula
NEW Orange Marmalade Bell Pepper
Easy Wave® Red Spreading Petunia
NEW Plug & Play® XXL Combo Golden Era
Purple Prince Alternanthera



Back cover stars:

NEW Kabloom™ Cherry Calibrachoa
NEW Kabloom™ Orange Calibrachoa
NEW Rockin'™ Purple Dianthus

WAVE / 2

ANNUALS / 12

PERENNIALS / 134

POTTED PLANTS / 158

CUT FLOWERS / 176

HANDPICKED / 200

PLUG & PLAY / 220



**AWARD-WINNING DEBUTS
THEN & NOW**

Introduced in 1995 to industry-wide praise and earning an **All-America Selections award, Wave Purple Classic** (below and page 8) continues to be a leader in landscape performance.



For 25 years, PanAmerican Seed has invested in improving Wave petunias for growers and consumers alike, continually bringing new and exciting varieties to the market. This year, we introduce **NEW Wave Carmine Velour, an All-America Selections National Winner.** See page 8.






wave[®]

25 YEARS OF INNOVATION AND PROGRESS!

In 2020, Wave[®] petunia is celebrating 25 years of **proven performance** and **excellence in genetics**. The Authentic Trailing Petunia has been a favourite with consumers for 25 years, and with **new colours** in both the Wave and Easy Wave[®] series this year, it promises to continue to **set the standard higher** for spreading petunias around the globe.





wave
PETUNIAS

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. Start your Wave® sales early with the early-to-flower spreading petunia series that bounces back from overhead watering and Spring showers.

SPREADING PETUNIA ●
Petunia x hybrida

Shock Wave® Series F1



Height: 7 to 10 in./18 to 25 cm
Spread: 30 to 36 in./76 to 91 cm
Flower size: 1.5 to 2 in./4 to 5 cm

Seed supplied as: Pelleted

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

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

Coral Crush Retains colour well in high light.

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

Spark Mixture Coconut, Denim, Pink Shades.

Volt Mixture Red, Coconut, Denim.

Plug & Play Combo Firecracker featuring Shock Wave Coral Crush, Deep Purple and Denim petunias, see page 230.

Use Shock Wave petunias in awe-inspiring Fuseables® Combos like this!



Fuseables Ooh La La, see page 225.



Deep Purple



Spark Mixture



Volt Mixture



Coconut



Pink Vein



Pink Shades



Rose



Denim



Coral Crush



Red



Deep Purple



wave[®]
PETUNIAS

Bold and creative!

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

Easy Wave Red

Grow great-looking Plug & Play[®] Combos like this with Easy Wave petunias!



Plug & Play Combo Mad About Red, see page 229.

SPREADING PETUNIA continued

Easy Wave[®] Series F1



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

Seed supplied as: Pelleted

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

- Exceptional uniformity means simplified production, maximized plug yields and the ability to meet every ship date for every colour. Lets you grow specialty mixes, too!
- More mounded with more controlled spread than Wave varieties.
- Recommended in Wave branded packaging: 6-in./15-cm pots, premium quarts and gallons, 306 premium packs with handle, hanging baskets.
- Blue** Flowers have some light blue shading.
- Burgundy Star** Pattern is consistent with standard star petunias - some flowers may be more solid or more white.

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

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

Plum Vein Slightly more upright than others in the series.

Red Flower size is slightly smaller, yet not as small as Easy Wave Yellow. Timing to first flower is similar; however Easy Wave Red is approximately 3 days faster to saleable stage.

Yellow Better branching with strong rooting compared to vegetative yellow varieties. Flower size is similar to Red.

Beachcomber Mixture Blue, Coral Reef, Shell Pink.

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

Great Lakes Mixture Blue, Violet, White.

Opposites Attract Mixture Coral Reef, Violet.

Plum Pudding Mixture Plum Vein, Violet. Flowering window to 50% flower is 1 day.

South Beach Mixture Improved Coral Reef, Red, Violet. Window to first flower is 3 days.

Starfish Mixture Burgundy Star, White.

The Flag Mixture Red, White, Blue. Flowering window to 50% is 1 day.



Starfish Mixture



Formula Mixture



Beachcomber Mixture



Great Lakes Mixture



NEW
Lavender Sky Blue



The Flag Mixture



South Beach Mixture



Opposites Attract Mixture



Plum Pudding Mixture



White



Silver



Yellow



Pink



Coral Reef



Pink Passion



Violet



Plum Vein



Neon Rose



NEW Lavender Sky Blue



Blue



Burgundy Star



Rosy Dawn



Red



Berry Velour
US 7,642,436; EU PAF



Burgundy Velour
US 7,642,436; EU PAF



Red Velour
US 7,642,436; EU PAF



NEW



Wave Carmine Velour

The Authentic Trailing Petunia

Wave has set the standard for petunia landscape performance and continues to transform gardens around the globe. Pro landscapers and home gardeners alike choose low-growing, wide-spreading Wave varieties for every sunny setting: gardens, baskets, large colour bowls and more.

SPREADING PETUNIA continued

Wave® Series F1



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

Seed supplied as: Pelleted

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

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

New Carmine Velour Vivid, hot carmine-cherry colour on vigorous, flat, spreading plants. 13 hours daylength required. Cold durable. *All-America Selections National Winner 2019.*

Lavender Timing is similar to Misty Lilac.

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

Pink Timing is similar to Purple Classic.

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

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



Purple



NEW Carmine Velour
All-America Selections National Winner



Misty Lilac



Pink



Lavender
All-America Selections National Winner, Fleuroselect Gold Medal



Purple Classic
All-America Selections Classic



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

Tidal Wave® Series F1



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

- Spaced a minimum of 12 in./30 cm apart, Tidal Wave petunias form a dense, mounded hedge, 16 to 22 in./41 to 56 cm tall.
 - Grown in a restricted space with support, they grow an extra 2 to 3 ft./61 to 91 cm upward, like a vine. Spaced up to 24 in./61 cm apart in the garden, the plants make a floriferous groundcover, spreading up to 5 ft./1.5 m across per plant.
- Flower size:** 2 to 2.5 in./5 to 6 cm

Seed supplied as: Pelleted

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

- Tallest and most vigorous of the Wave petunia family, Tidal Wave plants super-size colour into big spaces.
- Excellent landscape 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.
- Recommended in Wave branded packaging: 8-in./20-cm pots, hanging baskets.



Big, bold 3D colour!

Extend your season with this strong finisher – grown and marketed in 8-in./20-cm pots and baskets, Tidal Wave is the “go-to” for pros and home gardeners looking for fresh, fast colour. Hedge, vine or impressive groundcover – Tidal Wave does it all! These fast-fill plants spread out across big spaces, and they crawl along and over walls and fences.

Tidal Wave Silver and Red Velour



Silver
 All-America Selections National Winner, Fleuroselect Quality Mark



Hot Pink



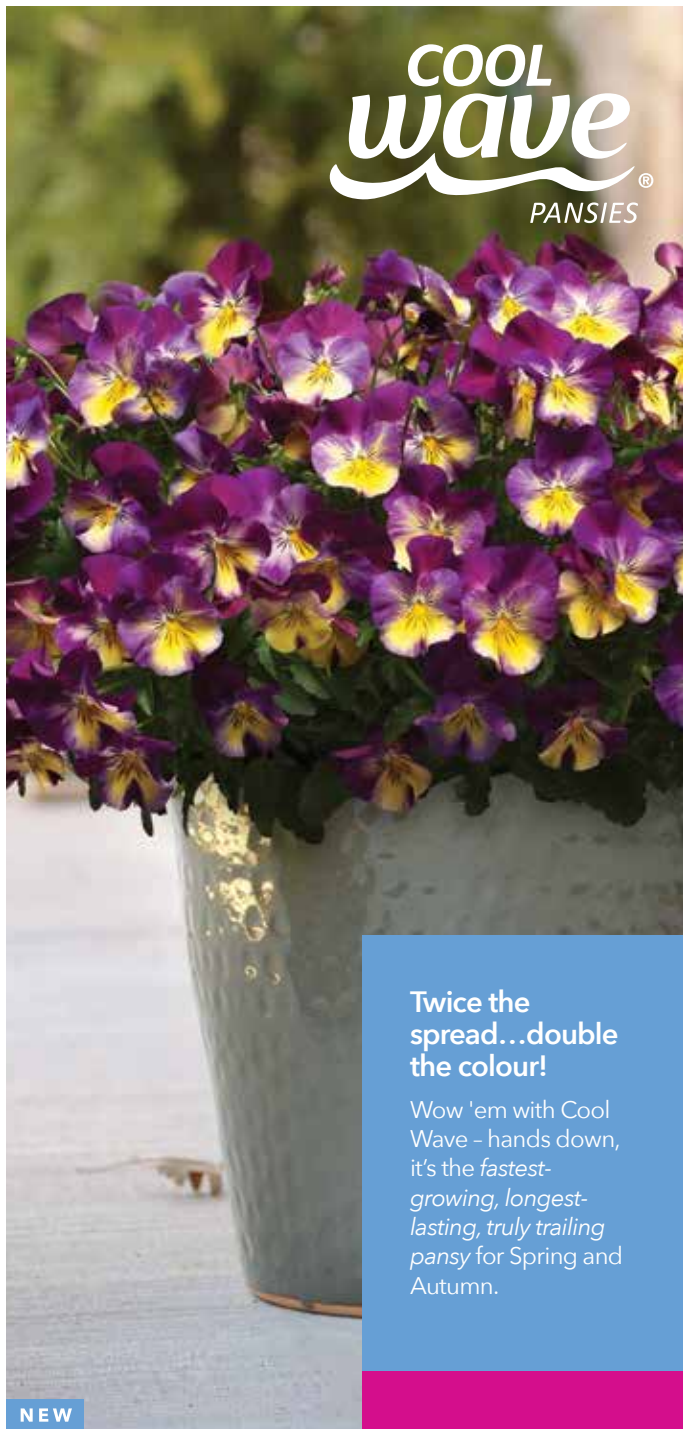
Cherry



Purple



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



COOL
wave[®]
PANSIES

Twice the spread...double the colour!

Wow 'em with Cool Wave - hands down, it's the fastest-growing, longest-lasting, truly trailing pansy for Spring and Autumn.

NEW

Cool Wave Raspberry Swirl



NEW

Strawberry Swirl



Raspberry

SPREADING PANSY ●

Viola x wittrockiana

Cool Wave® Series F1



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

Seed supplied as: Primed

Plug crop time: 4 to 5 weeks

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

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

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

Blueberry Swirl Cool nights/low PGRs deliver the deepest colour. High temperatures/PGR use show lighter colour and broader yellow eye.

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

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

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

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

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

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

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

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

Maximize your growing success

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

Cool Wave pansies make awesome cool-season combos like this!



Fuseables Sunny Skies, see page 223.



Berries 'N Cream Mixture



Pastel Mixture



Mixture



White



Lemon



Golden Yellow



Blue Skies



Morpho



NEW Strawberry Swirl



NEW Raspberry Swirl



Purple



Raspberry



Fire



Red Wing /
Sunshine 'N Wine



Blueberry Swirl



Frost



Violet Wing

**NEW BEACON™ ORANGE
IMPATIENS**

Bring *Impatiens walleriana*
back into production
without the risk of
Impatiens downy mildew!
See page 48.





ANNUALS

CLASSIC, NEW & BREAKTHROUGH

PanAmerican Seed is your “go-to” supplier for high-performance annuals, backed by **industry-leading seed quality** and **consistent, deliverable inventory**. While we’ve built our reputation on popular classes like marigolds, petunias and pansies, we offer the same **reliability** and **proven performance** from our new introductions, like **New** Beacon downy mildew resistant impatiens, Purple Prince alternanthera and **New** Glamour Improved euphorbia. We are proud to be leading the industry in breeding and supplying varieties that offer enhanced benefits for growers, retailers, landscapers and gardeners, bringing you the **best that seed can offer**.



Serena Series

Your no-pinch, low-hassle angelonia

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



Rose

ANGELONIA ●
Angelonia angustifolia

Serena® Series F1



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

Seed supplied as: Pelleted

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



Blue

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

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

New Rose A new colour segment for Serena! Dense spikes feature large florets with a deep rose bloom and a dark eye. Intense, deep colour is maintained in high light and high heat environments. Vigour and height fit the series well.

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

Try Serena angelonia in delightful Plug & Play Combos like this!



Plug & Play Combo Seaside Delight, see page 235.



Purple



White



Mixture



Waterfall Mixture



NEW

Rose

Serenita® Series F1



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

Seed supplied as: Pelleted

Plug crop time: 5 to 6 weeks

Transplant to finish: 8 to 9 weeks

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

New Rose Deep to mid-rose shades are darker than Pink. Plant height and vigour are a good match for the series.

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



Sky Blue



Purple



Raspberry



Lavender Pink



White



Serenita Pink All-America Selections National Winner

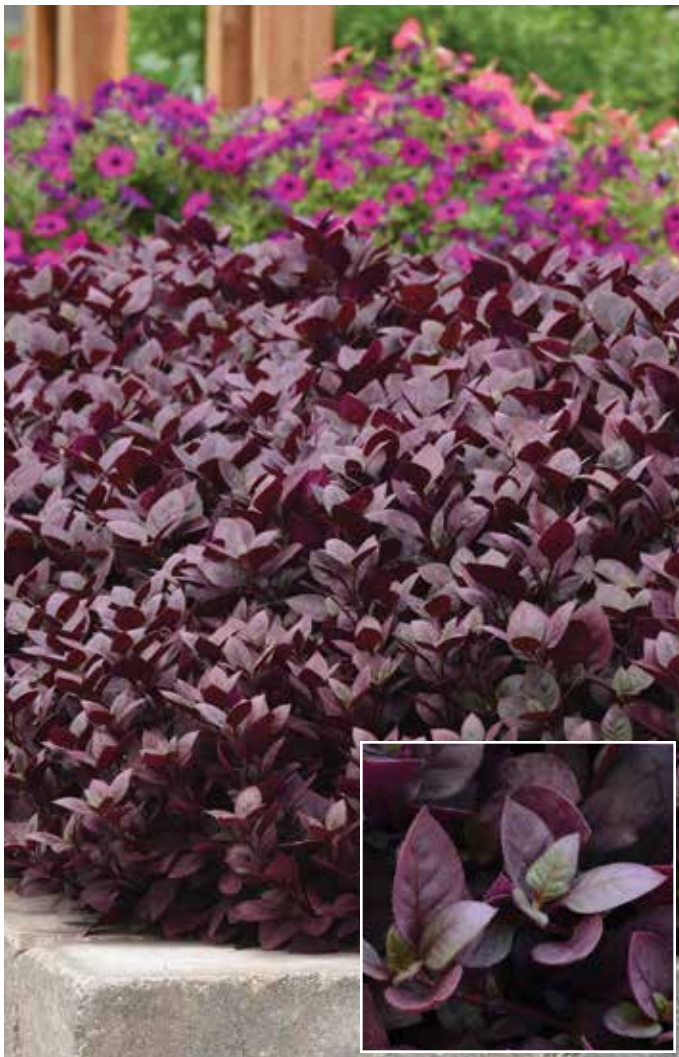


Serena Purple

Serenita Purple



Mixture



Purple Prince Alternanthera

ABUTILON ●●
Abutilon x hybridum

Bella™ Select Mixture

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

Seed supplied as: Raw

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

- Compact variety for outdoor containers; also good in indoor plant programs.
- True dwarf variety germinates easily and needs little or no growth regulators.
- Well-branched plants bloom continuously, even in high heat.
- Large, 3-in./8-cm, bell-shaped blooms “look up” for a good show of colour; under cooler conditions, colours intensify.

AGERATUM ●
Ageratum houstonianum

High Tide™ Series F1

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

Seed supplied as: Pelleted

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

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



Purple Knight Alternanthera



Bella Select Mixture Abutilon



High Tide Blue & High Tide White Ageratum

ALTERNANTHERA ●●
Alternanthera brasiliana

Purple Prince



Height: 10 to 16 in./25 to 41 cm
Spread: 18 to 20 in./46 to 51 cm

Seed supplied as: Raw

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

- First compact seed alternanthera is an easy-to-grow alternative to vegetative varieties.
- Durable carpet of ruby/burgundy foliage is ready to take on any Summer condition, including drought and rain. Imagine this unique colour accent in large cityscapes and as a “spiller” in high-impact containers!
- Great in low-maintenance landscapes for professionals and home gardeners alike.
- May flower under very short days; light plants at that time of year to prevent bud formation.

ALTERNANTHERA ●
Alternanthera dentata

Purple Knight



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

Seed supplied as: Raw

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

- Economical, easy-to-produce plant is an ideal accent for mixed containers and excellent in the landscape as a vigorous bedding plant.
- Also well-suited to indoor plant programs.
- Very heat tolerant - thrives even in subtropical Summer conditions.
- Foliage colour is darkest in full sun.
- Height varies by location; taller in warmer conditions.

Mississippi Medallion Award



Clear Crystal White *Fleuroselect Novelty* US 7,915,504
and Clear Crystal Lavender Shades US 7,915,504

Clear Crystal alyssum adds cool colours to Fuseables Combos like this!



Fuseables Wine Cooler, see page 223.

ALYSSUM ●
Lobularia maritima

Clear Crystal® Series

Height: 6 to 10 in./15 to 25 cm
Spread: 12 to 14 in./30 to 36 cm

Seed supplied as: Coated, Multi-Seed Pellets

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

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

Easter Bonnet Series

Height: 4 to 10 in./10 to 25 cm
Spread: 10 to 12 in./25 to 30 cm

Seed supplied as: Raw, Coated

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

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



Easter Bonnet White



Easter Bonnet Lavender
RHS Award of Garden Merit



Easter Bonnet Lemonade



Easter Bonnet Peach



Easter Bonnet Deep Pink



Easter Bonnet Deep Rose



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



Easter Bonnet Mixture



Clear Crystal Mixture
 US 7,915,504



Clear Crystal Purple Shades
 US 7,915,504



Clear Crystal Lavender Shades
 US 7,915,504



Snow Crystals *Fleuroselect Gold Medal*

Snow Crystals

Height: 6 to 10 in./15 to 25 cm
Spread: 12 to 14 in./30 to 36 cm

Seed supplied as: Raw

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

- Large, pure white, scented flowers have outstanding sales appeal.
- Tetraploid genetics of Snow Crystals add heat tolerance and vigour.

ANEMANTHELE

See **ColorGrass**, page 42.

ANEMONE

See **Cut Flowers**, page 178.

ANGELONIA

See page 14.

ANTIRRHINUM

See **Snapdragon**.

AQUILEGIA

See **Perennials**, page 136.

ARABIS

See **Perennials**, page 138.

ARMERIA

See **Perennials**, page 138.

ASCLEPIAS

See **Cut Flowers**, page 178.



Pot 'N Patio Series Mixture Aster



Pot 'N Patio Series Pink Aster



Pot 'N Patio Series Scarlet Aster



NEW

Pinktopia Bacopa



Pot 'N Patio Series White Aster



Pot 'N Patio Series Blue Aster



Blutopia Bacopa



Snowtopia Bacopa

Use Blutopia bacopa in stunning Fuseables Combos like this!



Fuseables Healing Waters, see page 225.

ASTER ●
Callistephus chinensis

Pot 'N Patio Series

Height: 6 in./15 cm
Spread: 6 in./15 cm

Seed supplied as: Raw

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

- Dwarf plants flower just 90 days from sowing during the short days of Winter and early Spring without additional lighting.
- Performs well in patio pots, colour bowls and mixed containers, producing 2.5 to 3-in./5 to 8-cm, double blooms.
- Not recommended for landscape plantings.



Gryphon Begonia

F1 BACOPA ●●
Sutera cordata

Blutopia[®], Snowtopia[®] and New Pinktopia[®]

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

Seed supplied as: Multi-Seed Pellets

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

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

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

New Pinktopia A new bright pink colour joins the only seed collection of F1 Hybrid Bacopa. The leaf size is the same as Snowtopia, but the leaf colour is more bright green than both Blutopia and Snowtopia.

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

FOLIAGE BEGONIA ●●
Begonia x hybrida

Gryphon

Height: 14 to 16 in./36 to 41 cm in shade, 12 to 14 in./30 to 36 cm in partial sun; may grow to 30 in./76 cm tall in hot/humid conditions
Spread: 16 to 18 in./41 to 46 cm

Seed supplied as: Multi-Seed Pellets

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

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



Dragon Wing Pink

BEGONIA 
Begonia x hybrida

BabyWing® Series F1



Height: 12 to 15 in./30 to 38 cm
Spread: 10 to 12 in./25 to 30 cm
Seed supplied as: Pelleted
Plug crop time: 7 to 8 weeks
Transplant to finish: 5 to 7 weeks

- BabyWing is not daylength sensitive, so it is the first interspecific begonia to market.
- Upright, mounded, controlled plants stand up to shipping.
- Easy, season-long performance in landscapes and containers.
- Heat tolerant and handles stressful conditions well.

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

Red Green leaves can show red picotee edge when young.

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

Dragon Wing® Series F1



Height: 12 to 15 in./30 to 38 cm
Spread: 15 to 18 in./38 to 46 cm
Seed supplied as: Pelleted
Plug crop time: 7 to 8 weeks
Transplant to finish: 7 to 9 weeks

- Grows lush and vigorous in southern U.S. heat and under cool, stressful conditions of northern Europe and Canada.
- Unique and beautiful arching, pendulous habit is spectacular in hanging baskets, large containers and commercial 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."
- Features best-in-class "bulletproof" performance, fast fill-in and an easy-care nature.

Georgia Gold Medal Winners



Dragon Wing Red



BabyWing Pink



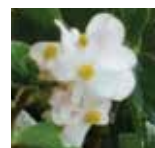
BabyWing White Bronze Leaf



BabyWing Red



BabyWing Mixture



BabyWing White



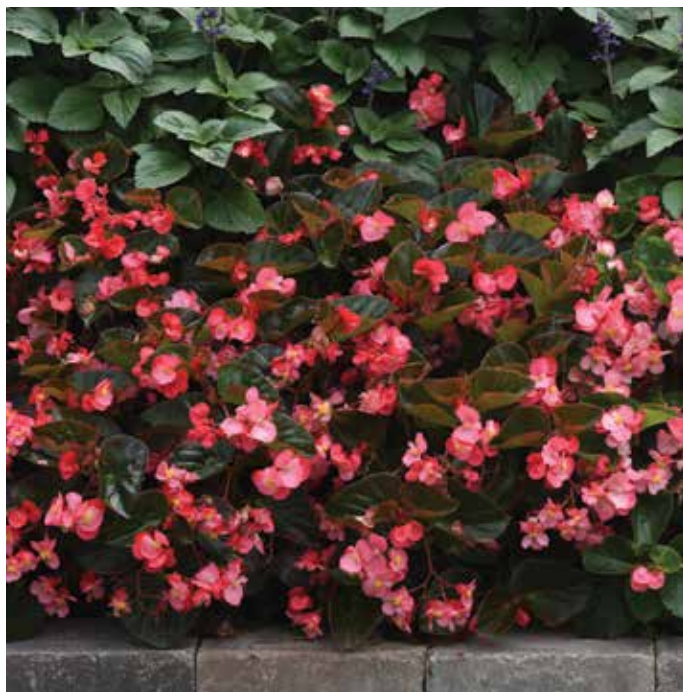
BabyWing Pink



BabyWing White Bronze Leaf



BabyWing Bicolor



Megawatt Rose Bronze Leaf



Rose Green Leaf



Red Green Leaf



Megawatt is retail-ready in 6-in./15-cm pots and larger.

**MEGAsize +
MEGAcour =
MEGAsales!**

This fresh, high-energy begonia option has quickly proven itself in the marketplace with great timing benefits, one-of-a-kind varieties, ultimate garden power and more. These bigger-than-life hybrids let you offer the earliest colour to early-bird gardeners.

Look to PanAmerican Seed for your complete interspecific program, starting with fastest-to-market **BabyWing** for day-neutral growing... **Megawatt** for big Spring sales...and main-season **Dragon Wing** to round out the season.

BEGONIA 
Begonia interspecific

Megawatt™ Series F1



Height: 20 to 28 in./51 to 71 cm
Spread: 16 to 24 in./41 to 61 cm

Seed supplied as: Pelleted

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

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



Rose Bronze Leaf



Pink Green Leaf



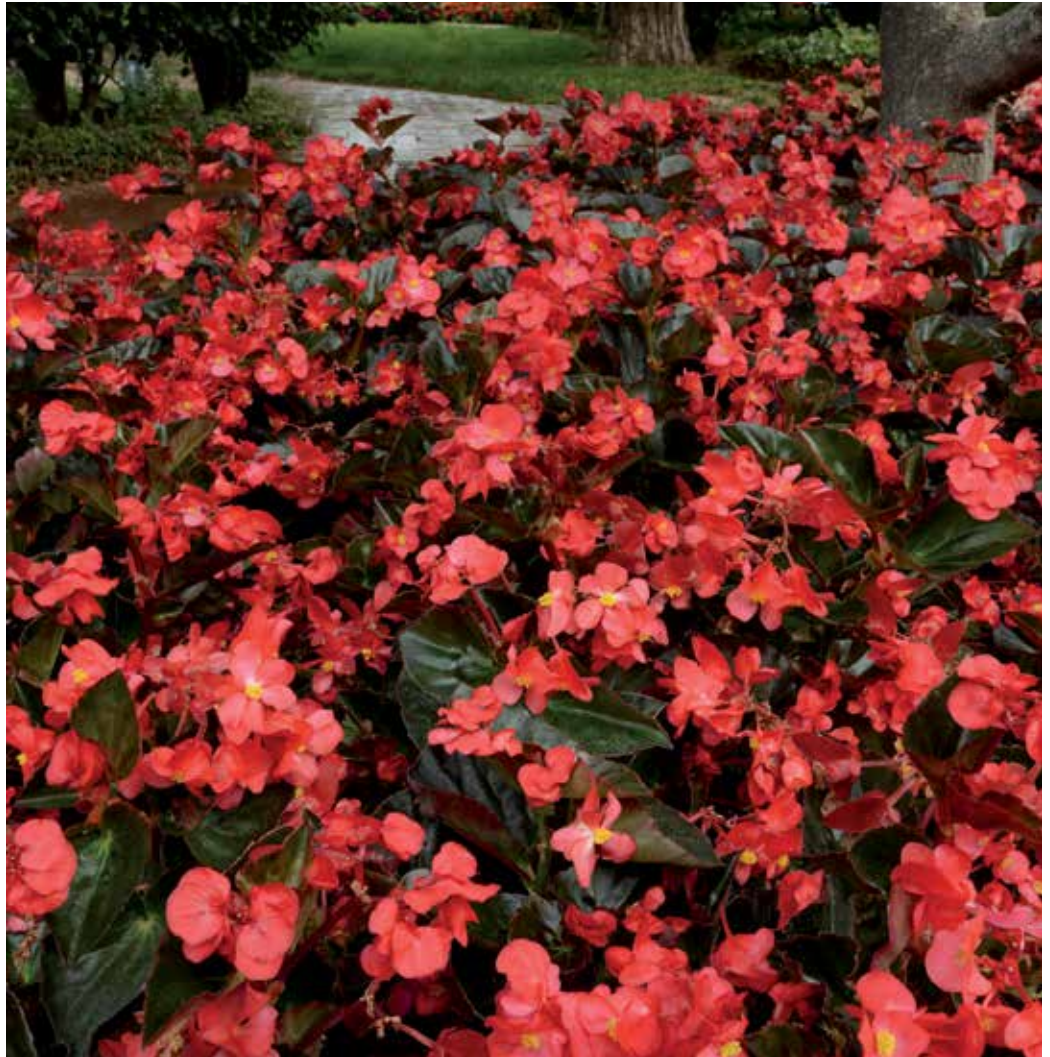
Pink Bronze Leaf



Rose Green Leaf



Red Green Leaf



Red Bronze Leaf



Pink Bronze Leaf



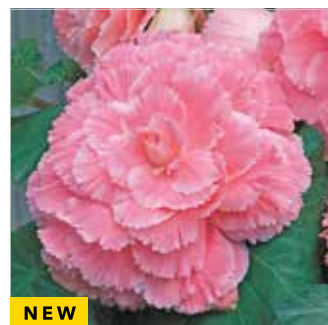
NEW
Calypso



NEW
Flamenco



NEW
Lace Apricot



NEW
Lace Pink



NEW
Lace Red



NEW
White Red



NEW
Sunburst



NEW
White Pink



NEW
AmeriHybrid Picotee Sunburst

Big, bold begonias

Five new tuberous begonia series debut from PanAmerican Seed, providing a wide selection of colours, including unique bicolours, along with some of the world's largest blooms! This exciting collection can be sold at a premium price point at retail, and it results in faster turnover in the market.

TUBEROUS BEGONIA *Begonia x tuberosa*

AmeriHybrid® Picotee Series F1

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

Seed supplied as: Pelleted

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

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

New Calypso White with a salmon-coral edge.

New Flamenco White with a thick red edge and speckles.

New Lace Apricot Apricot blooms with a white edge.

New Lace Pink Pink blooms with a white edge.

New Lace Red Red blooms with a white edge.

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

New White Pink White with a pink edge.

New White Red White with a red edge.



NEW
Peach



NEW
Pink



NEW
Red



NEW
Rose



NEW
Salmon



NEW
Scarlet Orange



NEW
White



NEW
Yellow

AmeriHybrid® Roseform Series F1

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

Seed supplied as: Pelleted

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

- AmeriHybrid Roseform begonias display smooth-petalled, symmetrical blooms.
- Flowers measure 4 to 8 in./10 to 20 cm or larger, for a different, more elegant and refined flower shape.



AmeriHybrid Roseform Series



NEW
Apricot



NEW
Coral Salmon



NEW
White



NEW
Scarlet Red



NEW
Yellow



NEW
Mandarin Orange



NEW
Pink



AmeriHybrid Ruffled Series

TUBEROUS BEGONIA *continued*

AmeriHybrid® Ruffled Series F1

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

Seed supplied as: Pelleted

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

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



World's largest blooms - up to 9 in./23 cm!

Flower size: 5-9 in./13-23 cm



NEW
On Top Fandango



NEW
On Top Sun Glow



NEW
Sun Dancer Apricot



NEW
On Top Melon Lace



NEW
On Top Sunset Shades



NEW
Sun Dancer Pink



NEW
Sun Dancer Scarlet Orange



NEW
On Top Pink Halo



NEW
Sun Dancer White



NEW
Sun Dancer White Pink Picotee

On Top® Series F1

Height: 10 to 12 in./25 to 30 cm
Spread: 10 to 12 in./25 to 30 cm
Flower size: 2 to 5 in./5 to 13 cm

Seed supplied as: Pelleted

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

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

- New Fandango** White with a salmon-coral edge.
- New Melon Lace** Melon with a white edge.
- New Pink Halo** White with a deep pink edge.
- New Sun Glow** Golden yellow with a red edge.
- New Sunset Shades** Yellow with a red edge.

Sun Dancer™ Series F1

Height: 10 to 12 in./25 to 30 cm
Spread: 12 to 16 in./30 to 41 cm
Flower size: 3 to 6 in./8 to 15 cm

Seed supplied as: Pelleted

Plug crop time: 7 to 8 weeks
Transplant to finish: 9 to 13 weeks

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

- New White Pink Picotee** White with a pink edge.
- New Yellow Red Picotee** Yellow with a red edge.
- New Scarlet Orange** and **New Salmon** are more vigorous and have longer flower stems compared to the rest of the series.



NEW
Sun Dancer Red



NEW
Sun Dancer Yellow



NEW
Sun Dancer Salmon



NEW
Sun Dancer Yellow Red Picotee



Crave Strawberry Star

CALIBRACHOA ●
Calibrachoa x hybrida

Crave Strawberry Star F1

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

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

New! Now available as Precision™ Multi-Pellets.

Plug crop time: 5 to 8 weeks
Transplant to finish: 7 to 11 weeks

- *The first star pattern in seed calibrachoa!* Flower colour may shade slightly. Under warmer night conditions, the strawberry colour may become lighter, while maintaining a consistent star pattern.
- Plants have good vigour, with a uniformly branched and controlled habit.
- Seed form makes it easy to order and ready to ship, fits right into mechanized production and assures easy inventory management.
- Grows more vigorously than the Kabloom varieties.
- Requires 12-hour daylength for best flowering.

CAMPANULA

See **Cut Flowers**, page 179.

CAPSICUM

See **Potted Plants**, page 162.

CAREX

See **ColorGrass**, pages 42 and 45.

CARTHAMUS

See **Cut Flowers**, page 178.

CATHARANTHUS

See **Vinca**.



NEW
Kabloom Pink



NEW
Kabloom Coral



NEW
Kabloom Cherry



Kabloom Yellow



NEW
Kabloom Blue



Kabloom Denim



NEW
Kabloom Light Pink Blast



NEW
Kabloom Orange



NEW
Kabloom White Improved



Precision Multi-Pellet structure close up.

Create colourful Fuseables Combos like this with Kabloom calibrachoa!



Fuseables Paradise Island, see page 226.



NEW

Kabloom Orange

Kabloom™ Series F1

Height: 8 to 12 in./20 to 30 cm
Spread: 10 to 14 in./25 to 36 cm

New! All of our calibrachoa are now supplied as Precision™ Multi-Pellets. This upgraded seed form offers reliable plug production, with uniform quality in plug trays and improved order fill rate, all leading to a great-performing product!

Plug crop time: 5 to 8 weeks
Transplant to finish: 7 to 11 weeks

- We've expanded the first-of-its-kind Kabloom series to include 6 new colours and 1 improved variety, plus they are now offered in our convenient Precision Multi-Pellets.
- The ideal input for grower choice premium quarts. Also well-suited to 4 to 6-in./10 to 15-cm pots, hanging baskets and mixed combos.
- Seed form makes it easy to order and ready to ship, fits right into mechanized production and assures easy inventory management.
- Bushy, trailing plants show off abundant, bright blooms in core solid colours.

New Blue Clear, mid-blue with a small yellow throat. Darker blue than Denim. Moderate plant vigour. Replaces Deep Blue. 10.5 hours daylength required.

New Cherry Warm cherry-rose with a small rose ring and a small yellow throat. Colour may become slightly lighter in high light and warm night conditions. Moderate plant vigour. 11 hours daylength required.

New Coral Warm coral-salmon with a small yellow throat. Colour can shade to slightly lighter in warmer and higher light conditions. Moderate plant vigour. 11 hours daylength required.

Denim Flat, mounded plants produce flowers with darker blue tones under lower light and cooler conditions. The blooms age to silver-blue under higher light and warmer conditions. 11 hours daylength required. The most prostrate in the series, with a height of 6 to 10 in./15 to 25 cm.

New Light Pink Blast Light pink with a rose-red ring at the base of the petal and a small yellow throat. Moderate and slightly variable plant vigour. Slight shading from light pink to soft coral pink. 11.5 hours daylength required.

New Orange Clear, bright orange with a darker orange ring at the base of the petal and a small yellow throat. Moderate plant vigour. 10.5 hours daylength required.

New Pink Vibrant, clear pink with a rose ring and a medium-sized yellow throat. Moderate vigour with a more upright and mounded plant structure. Replaces Deep Pink. 11 hours daylength required.

New White Improved Clear, bright white with a small yellow throat. Moderate plant vigour better matches the series. Replaces White. 10.5 hours daylength required.

Yellow More upright plant structure 10 hours daylength required.



At 5 weeks, NEW Kabloom Precision Multi-Pellets produce a fuller plug tray.



NEW

Light Pink Blast

Ease and efficiency, at your fingertips!

Kabloom, the first seed calibrachoa, lets you schedule based on your needs, not on cutting availability dates. You can still receive product when the weather holds up vegetative shipments. Best of all...grown side by side with vegetative varieties, it's impossible to tell the difference.



First Flame Purple



NEW
Ice Cream Yellow Improved



Ice Cream Pink



Ice Cream Cherry



First Flame Scarlet



First Flame Yellow



First Flame Red



Ice Cream Orange



Ice Cream Salmon



NEW
Ice Cream Mixture Improved



First Flame Mixture

CELOSIA ●
Celosia cristata

Dracula

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

Seed supplied as: Coated

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

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



Dracula



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

CELOSIA ●
Celosia plumosa

First Flame™ Series



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

Seed supplied as: Coated

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

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

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

Mixture Red, Yellow, Scarlet.

Ice Cream Series

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

Seed supplied as: Coated

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

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

New Yellow Improved Fits the series better for habit and timing compared to Yellow, which was taller than the other varieties.

New Mixture Improved Contains NEW Yellow Improved in place of Light Yellow. Upgraded for uniformity and brighter colours.

CUT FLOWER CELOSIA

Bombay Series, page 180.

Celway Series, page 183.

Neo Series, page 181.

Spring Green, page 180.

Sunday Series, page 182.



Kong Scarlet



Kong Lime Sprite



Kong Red US PVP 200500015



Kong Empire Mixture



Kong Salmon Pink US PVP 200900035



Kong Rose US PVP 200500017

PREMIUM SHADE COLEUS

Solenostemon scutellarioides

Kong® Series



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

Seed supplied as: Pelleted

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

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

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

Empire Mixture Contains all 6 colours.

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

Kong Jr.™ Series



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

Seed supplied as: Pelleted

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

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

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



Kong Mosaic



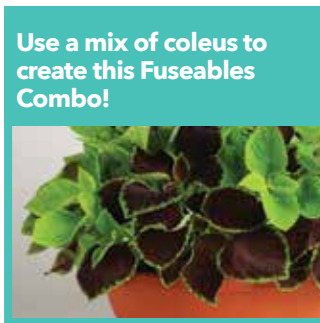
Kong Jr. Lime Vein



Kong Jr. Scarlet



Kong Jr. Green Halo

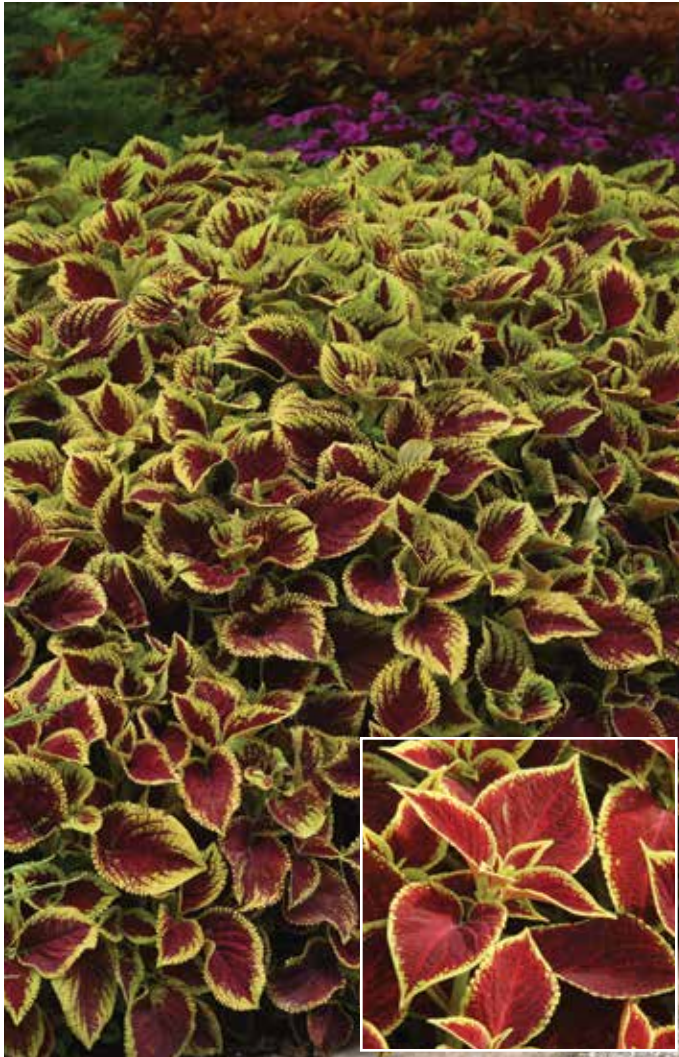


Fusables Chocolate Symphony, see page 226.



Kong Jr. Rose

Use a mix of coleus to create this Fuseables Combo!



Crimson Gold



Dark Chocolate



Chocolate Mint



Chocolate Covered Cherry

PREMIUM SUN COLEUS ●

Solenostemon scutellarioides

Show-stopping colours...bold patterns...rich textures: Pro landscapers and gardeners love these centre stage varieties for their great looks and reliable performance in sunny gardens and patio planters. Our Premium Sun Coleus can tolerate full sun in regions of high relative humidity such as Hardiness Zones 9 and 10. Foliage will scorch in full sun with low relative humidity. All are suitable for shade.

All Premium Sun Coleus are supplied as pelleted seed.

Plug crop time: 5 to 6 weeks

Transplant to finish: 6 to 8 weeks

Chocolate Covered Cherry

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

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

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

Chocolate Mint

Height: 14 to 20 in./36 to 51 cm

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

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

Crimson Gold



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

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

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

Dark Chocolate

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

Spread: 18 to 24 in./46 to 61 cm

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



Lime Delight

Lime Delight



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

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

Mighty Mosaic



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

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

Watermelon

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

- Watermelon-coloured leaves with green edges in cool conditions mature to deep pink under warmer conditions.
- Can be used in sunny or shady landscapes.
- Beautifully coloured foliage with late flowering.



Pineapple Surprise

Pineapple Surprise



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

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

Rose to Lime Magic

Height: 24 in./61 cm
Spread: 18 to 22 in./46 to 56 cm

- Unique variety changes colour as the season progresses - rose colour in leaves eventually dissolves, exposing green margins and cream centres.
- 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.



Rose to Lime Magic: Stage 1, 2 & 3



Mighty Mosaic



Watermelon



Wizard Mixture Coleus

Wizard Mosaic Coleus

Wizard Rose Coleus

Wizard Select Mixture Coleus



Wizard Jade Coleus

Wizard Sunset Coleus

Black Dragon Coleus



Wizard Golden Coleus

Wizard Rose Coleus

Wizard Scarlet Coleus

Antiquity Cosmos *Fleuroselect Novelty*



PACK COLEUS ●●
Solenostemon scutellarioides

Black Dragon

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

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

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

Wizard Coral Sunrise Coleus



Wizard Velvet Red Coleus

Wizard® Series

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

Seed supplied as: Raw

Plug crop time: 5 to 6 weeks

Transplant to finish: 7 to 9 weeks

- Low-maintenance, uniform and basal-branching plants are late-flowering, extending their landscape value.
- Mid-sized leaves.
- Great for packs.
- Useful for indoor plant programs.

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

COLORGRASS

See page 42.

COREOPSIS

See Perennials, page 139.

CORYNEPHORUS

See ColorGrass, pages 43.

COSMOS ●

Cosmos bipinnatus

Antiquity

Height: 20 to 30 in./51 to 76 cm
Spread: 12 to 14 in./30 to 36 cm
Seed supplied as: Raw

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

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



Sonata™ Series

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

Seed supplied as: Raw

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

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

New Red Shades New red colour expands the series! It features the excellent seed quality the Sonata Series is known for, with a flower that is more full and round compared to the competition's red.

New Mixture Improved This mix now offers the most complete colour range in *Cosmos bipinnatus*, adding the unique Purple Shades and NEW Red Shades into the mix.

COSMOS ●●
Cosmos sulphureus

New Mandarin

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

Seed supplied as: Raw

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

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

CROSSANDRA ●
Crossandra infundibuliformis

Tropic Series

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

Seed supplied as: Raw

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

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

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

CUPHEA ●
Cuphea ignea

Dynamite

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

Seed supplied as: Raw

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

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

CUPHEA ●●
Cuphea ramosissima

New Pink Shimmer

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

Seed supplied as: Precision Multi-Pellets

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

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



NEW
Sonata Mixture Improved Cosmos



NEW
Sonata Red Shades Cosmos



Sonata White Cosmos
 Fleuroselect Gold Medal



Sonata Pink Cosmos
 Fleuroselect Quality Mark, Fleuroselect Novelty



Sonata Pink Blush Cosmos
 Fleuroselect Quality Mark, Fleuroselect Novelty



Sonata Carmine Cosmos
 Fleuroselect Quality Mark, Fleuroselect Novelty



Sonata Purple Shades Cosmos



NEW
Mandarin Cosmos



NEW
Pink Shimmer Cuphea US PVPAF



Tropic Flame Crossandra



Tropic Yellow Splash Crossandra



Dynamite Cuphea



Dreamscape Deep Purple Cyclamen



Dreamscape Deep Rose Cyclamen



Dreamscape Deep Burgundy Cyclamen



Dreamscape Bright Red Cyclamen



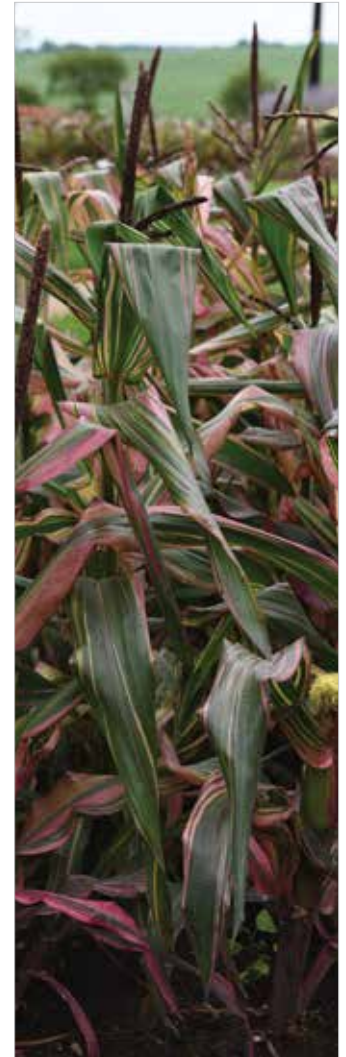
Dreamscape Salmon Eye Cyclamen



Dreamscape White Cyclamen



Dreamscape White Cyclamen



Pink Zebra Ornamental Corn



Dreamscape Dark Flamed Mixture Cyclamen

CYCLAMEN ●●●
Cyclamen persicum

Dreamscape™ Series F1



Height: 6 to 9 in./15 to 23 cm
Spread: 9 to 13 in./23 to 33 cm

Seed supplied as: Raw

Plug crop time: 8 to 9 weeks
Transplant to finish: 19 to 20 weeks

- Dreamscape varieties are specially bred and selected to deliver the best outdoor performance of any cyclamen.
- Pro landscapers and home gardeners alike can now confidently plant cyclamen in-ground and count on better, longer performance.
- Sow all colours at the same time to ship and sell together.

Deep Burgundy Unique colour for the outdoor cyclamen market.

Deep Rose Unique colour for outdoor and landscape use. The model for the series, Deep Rose is outstanding in landscape and garden beds.

Purple Deep, intense purple colour.

Salmon Eye Large, dark salmon flowers with very nice eye, on a slightly larger plant than the other Dreamscape varieties.

White The best white cyclamen for outdoor performance.

Dark Flamed Mixture Well-balanced mix of dark flamed colours.

ORNAMENTAL CORN ●●●
Zea mays

Pink Zebra

Height: 48 to 60 in./122 to 152 cm
Spread: 12 to 18 in./30 to 46 cm

Seed supplied as: Raw

Plug crop time: 1 to 2 weeks
Transplant to finish: Late Spring 4 to 6 weeks, Autumn 3 to 5 weeks

- Grow late Summer and Autumn sales with the only dwarf variegated ornamental corn on the market. Home gardeners will love the dramatic colour and texture in their late-season mixed planters and gardens, and fresh market farmers will captivate their customers, too!
- Green and white striped foliage adds showy purples/red/pinks in cool nights/long days.
- Better tillering in Autumn than other ornamental corns - each stalk produces many small ears with purple kernels and tassels.
- Great for quarts and gallons, with fast finish from plugs or direct sown.



Jolt Pink Magic

INTERSPECIFIC DIANTHUS ●*Dianthus barbatus interspecific***Jolt™ Series F1**

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

Seed supplied as: Pelleted

Plug crop time: 4 to 5 weeks
Transplant to finish: Late Spring through Autumn finish, 11 to 13 weeks; Winter finish, 14 to 18 weeks

- *Shocking Summer Colour* from the most heat-tolerant Interspecific Dianthus!
- Electrifying colours and all-season performance make Jolt stand out in landscapes and premium containers.
- Highly durable plants withstand hot conditions with few disease issues and continue to flower without setting seed.
- Grower-friendly, well-branched plants are easy to produce with less to no PGRs.

- Perfect for Summer premium grower choice quarts and gallons to command a higher price point.
- Strong dark green foliage.
- Performs as a semi-hardy annual in Zone 7 (0°F/-18°C minimum temperature) and milder.
- *All-America Selections National Winner* Jolt Pink continues to stir up consumer excitement with extra publicity and promotion.

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



Pink All-America Selections National Winner



Cherry



Dash Mixture



Dash Magician



Dash Violet



Dash White



Dash Pink



Dash Crimson



Dynasty White Blush



Dynasty Pink Magic



Dynasty Orchid
RHS Award of Garden Merit



Dynasty Purple



Dynasty Rose Lace



Dynasty Red

SINGLE DIANTHUS ●
Dianthus barbatus

Dash™ Series F1



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

Seed supplied as: Pelleted

Plug crop time: 4 to 5 weeks
Transplant to finish: Late Spring/early Summer, 9 to 10 weeks; late Summer/Winter, 11 to 12 weeks

- The best *D. barbatus* for premium quarts and gallons.
- Naturally compact and well-branched - needs less to no PGRs for easy, year-round container production.
- Sweet William-type dianthus requires no vernalisation for flowering.
- Produces masses of fragrant blooms.
- Low-energy crop can be grown cool for cost savings.

Magician Flowers open white and mature to shades of rose.

DOUBLE DIANTHUS ●
Dianthus barbatus interspecific

Dynasty Series F1

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

Seed supplied as: Pelleted

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

- Very well-branched, upright and strong-stemmed, these excellent landscape and garden performers double as a great backyard cut flower.
 - Fast-blooming plants respond well to growth regulators applied for potted plant height and tighter umbels.
 - Performs as a perennial in USDA Hardiness Zones 6a to 9b (-10 to 25°F/-23 to -4°C minimum temperature).
- Pink Magic** Flowers open white, then light pink, and mature to dark pink; optimal colour pattern results from high light and cool night temperatures.

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

Crowned with huge flower power

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



NEW
Corona Mixture

SINGLE DIANTHUS ●

Dianthus chinensis

Corona™ Series F1



Height: 8 to 10 in./20 to 25 cm
Spread: 8 to 10 in./20 to 25 cm
Flower size: 2 to 3 in./5 to 8 cm

Seed supplied as: Pelleted

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

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

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

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

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

White Clean, clear white.

New Mixture Brighten colour bowls and gardens with this mix of Cherry Red, Rose, Strawberry and White. Huge flower size and uniformity make it the best choice in this class of dianthus.



White and Cherry Red



White



Cherry Red



Rose



Strawberry



L: Corona Strawberry R: Competing Strawberry variety



White



NEW

Floral Lace Red



Floral Lace Purple



Floral Lace White

DIANTHUS ●
Dianthus chinensis x barbatus

Floral Lace™ Series F1



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

Seed supplied as: Raw, Pelleted

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

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

Picotee Colour pattern is not as distinct as traditional "picotee," but delivers a nice novelty white and rose-red bicolour.

New Red This rich, red-burgundy represents a key colour that was missing from the series.

Mixture Streamlined mix includes the most uniform, brightest colours in the series for better uniformity for the finished grower.

Ideal Select™ Series F1

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

Seed supplied as: Raw, Pelleted

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

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

CUT FLOWER DIANTHUS

Amazon Series, page 183.

Sweet Series, page 184.

PERENNIAL DIANTHUS

Rockin' Series, page 142.



Floral Lace True Rose



Floral Lace Picotee



Floral Lace Lilac



Floral Lace Cherry



Floral Lace Crimson



Floral Lace Violet Picotee



Floral Lace Mixture



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



Ideal Select Violet All-America Selections National Winner (All-America Classic)



Ideal Select White



Ideal Select WhiteFire RHS Award of Garden Merit



Ideal Select Red



Ideal Select Raspberry



Ideal Select Mixture



Figaro Original Field Grown Mixture Dahlia



Figaro Orange Shades Dahlia
 Fleuroselect Quality Mark, Fleuroselect Novelty

DAHLIA 
Dahlia x hybrida

Figaro™ Series

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

Seed supplied as: Raw


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

- Premium pack item is ideal for borders and containers.


Original Field Grown Mixture
 Contains 100% semi-double and full double flowers.

DELPHINIUM
 See **Perennials**, page 140.



Figaro Red Shades Dahlia 
 Fleuroselect Quality Mark, Fleuroselect Novelty



Figaro Violet Shades Dahlia 
 Fleuroselect Quality Mark, Fleuroselect Novelty



Figaro White Dahlia

Make a Plug & Play Combo they'll fall for with Silver Falls dichondra!



Plug & Play Combo Peach Melba Parfait, see page 235.



Silver Falls Dichondra

DICHONDRA 
Dichondra argentea

Silver Falls



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

Seed supplied as: Raw
Plug crop time: 5 weeks
Transplant to finish: 6 to 7 weeks

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



Emerald Falls Dichondra

DICHONDRA 
Dichondra repens

Emerald Falls



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

Seed supplied as: Multi-Seed Pellets
Plug crop time: 5 to 6 weeks
Transplant to finish: 7 to 8 weeks

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

DIGITALIS
 See **Perennials**, page 141.



New Day White



Rose Stripe



Yellow Improved



Red Shades



Red Stripe



Pink Shades



Clear Orange



Bronze Shades



Bright Mixture



Tiger Mixture



Mixture



Strawberry Shortcake Mixture



Sunny Side Up Mixture

GAZANIA ●

Gazania rigens

New Day® Series F1

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

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

Seed supplied as: Coated

Plug crop time: 4 to 5 weeks

Transplant to finish: 8 to 9 weeks

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

New Yellow Improved Features a larger flower with rounder petals, providing an increased show of colour.

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

Strawberry Shortcake Mixture Pink Shades, Rose Stripe, White.

Sunny Side Up Mixture Clear Orange, Yellow, White.

Tiger Mixture Red Stripe and Rose Stripe.



NEW
Glamour Improved Euphorbia



Wave Plug & Play Combo Fire N Nice, see page 231.



Citrona Yellow Erysimum
US PVP 200600168

DUSTY MILLER ●
Cineraria maritima/
Senecio cineraria

Silverdust

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

Seed supplied as: Raw, Pelleted

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

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



Citrona Orange Erysimum
US PVP 200600167

ECHINACEA
See **Perennials**, page 143.

ERYSIMUM ●
Erysimum species

Citrona® Series

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

Seed supplied as: Raw

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

- Very floriferous, well-branched plants display bright, scented blooms in Spring and Autumn.
- No vernalisation needed.
- Matches pansy production well; grow in premium packs, 4-in./10-cm pots and gallons.



Glitz Euphorbia

EUPHORBIA ●
Euphorbia graminea

New Glamour Improved



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

Seed supplied as: Raw

Plug crop time: 3 to 4 weeks
Transplant to finish: 5 to 8 weeks

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



Silverdust Dusty Miller

Glitz F1

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

Seed supplied as: Raw

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

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

EUSTOMA
See **Lisianthus**

EXACUM
See **Potted Plants**, page 168.

FESTUCA
See **ColorGrass**, page 44.

FIBER OPTIC GRASS
See **Isolepis** in **ColorGrass**, page 42.

FRAGARIA
See **Strawberry**

Complementary colour

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

Create this sunny Plug & Play Combo with Sirocco anemanthele!



Plug & Play Combo XXL Tuscan Sun, see page 239.



Red Rooster Carex



Live Wire Isolepis



Coolio Koeleria



Amazon Mist Carex



Bronco Carex

Variety/Exposure	Colour group	Height	Spread	USDA Zones	Containers	Plug crop time (weeks)	Transplant to finish (weeks)	Features
LOW HABIT (2 to 8 in./5 to 20 cm)								
Isolepis Live Wire ● <i>I. cernua</i> (Fiber Optic Grass)	Green	6-8 in./ 15-20 cm	18-20 in./ 46-51 cm	8-10	306 pack, 4 in./10 cm, 6 in./15 cm*, Gallon	5	6-7	Annual grasslike plant features a short mound of soft green leaves accented by flower spikes that look like "fiber optic" strands. Ideal for adding texture to mixed combos or used as an indoor plant. Dense, mounded habit needs no pinching or PGRs, grows upright when young and drapes as it matures. Performs well in wet conditions. Prefers shade, but can handle sun if moisture is maintained.
Koeleria Coolio ●● <i>K. glauca</i>	Green	6-8 in./ 15-20 cm	8 in./20 cm	6-8	4 in./10 cm, 6 in./15 cm*, Gallon	6-7	6-7	Upright, blue-green grass is ideal for dry locations. Grows to 20 in./51 cm after the first season.
Carex Amazon Mist ● <i>C. comans</i> (Leatherleaf Sedge)	Green	6-12 in./ 15-30 cm	14 in./36 cm	6-10	4 in./10 cm, 6 in./15 cm*, Gallon	6-7	9-10	Variiegated light/medium green grass has twisting tips and an arching habit.
Carex Bronco ● <i>C. comans</i> (Leatherleaf Sedge)	Brown	6-12 in./ 15-30 cm	14 in./36 cm	6-10	4 in./10 cm, 6 in./15 cm*, Gallon	6-7	8-9	Bronze-brown variety has an arching habit.

*3 plants per pot

All ColorGrass varieties are supplied as multi-seed pellets.



Bronco Carex



Spiky Blue Corynephorus



Festina Festuca



Lucius Luzula



Spiky Blue Corynephorus



Starhead Juncus



Sirocco Anemanthele

Variety/Exposure	Colour group	Height	Spread	USDA Zones	Containers	Plug crop time (weeks)	Transplant to finish (weeks)	Features
LOW HABIT (2 to 8 in./5 to 20 cm)								
Luzula Lucius ●●● <i>L. nivea</i>	Green	6-12 in./ 15-30 cm	18 in./46 cm	4-9	4 in./10 cm, 6 in./15 cm*, Gallon	4-7	8-9	Upright and arching evergreen grass has flat, mid-green leaves fringed in white hairs. Small, white flowers in spiky inflorescences in Spring/early Summer. Flourishes in damp, shady areas.
Corynephorus Spiky Blue ●●● <i>C. canescens</i> (Clubawn Grass)	Green	6-12 in./ 15-30 cm	8 in./20 cm	5-9	4 in./10 cm, 6 in./15 cm*, Gallon	6-7	6-7	Compact, spiky, blue-green tufts mature to reddish-green.
MEDIUM HABIT (8 to 18 in./20 to 46 cm)								
Juncus Starhead ●●● <i>J. ensifolius</i>	Green	8-10 in./ 20-25 cm	8-10 in./ 20-25 cm	4-10	4 in./10 cm, 6 in./15 cm*, Gallon	6-7	7-8	Compact variety displays green, broad-leaved foliage and long-lasting, dark green star inflorescences.
Anemanthele Sirocco ●●● <i>A. lessoniana</i>	Green/ Brown	12-14 in./ 30-36 cm	22-24 in./ 56-60 cm	7-10	4 in./10 cm, 6 in./15 cm*, Gallon	5-6	6-8	The only pink grass from seed – colour turns to shades of copper and pink under cool conditions, natural sunlight and maturity. Adds movement and texture to landscapes, gardens, mixed containers and baskets.

In addition to our ColorGrass Collection, PanAmerican Seed offers Juncus Fuseables Twisted Arrows and Fuseables Twisted Dart (page 226).



ColorGrass ornamental grasses bring patios and landscapes to life.



Blue Arrows Juncus with Glitz Euphorbia and Red Geranium



Festuca Festuca



Blue Dart Juncus



Twister Juncus



Pony Tails Stipa

Variety/Exposure	Colour group	Height	Spread	USDA Zones	Containers	Plug crop time (weeks)	Transplant to finish (weeks)	Features
MEDIUM HABIT (8 to 18 in./20 to 46 cm)								
Festuca Festuca ● <i>F. cinerea (F. glauca)</i>	Green	12-18 in./ 30-46 cm	10-15 in./ 25-38 cm	4-10	4 in./10 cm, 6 in./15 cm*, Gallon	6-7	6-7	Very cold-hardy variety produces dense, compact tufts of blue-green, with small, upright brown plumes from Summer to Autumn.
Juncus Blue Dart ●● <i>J. tenuis</i>	Green	14-16 in./ 36-41 cm	10-12 in./ 25-30 cm	4-10	4 in./10 cm, 6 in./15 cm*, Gallon	6-7	7-8	Linear blue foliage adds texture to small containers and in-ground planting. Strong vertical habit - faster, more reliable alternative to spike dracaena. Easy-care and adaptable to a wider range of conditions, including standing water and drought. Attractive indoor or water plant. Great retail shelf life.
Juncus Twister ●● <i>J. effusus spiralis</i>	Green	12-14 in./ 30-36 cm	12-14 in./ 30-36 cm	5-9	4 in./10 cm, 6 in./15 cm*, Gallon	7-8	6-7	Unusual juncus is economical and easy to grow - a fun addition to mixed containers. Shoppers love the small, curly green leaves of this upright plant. Can be grown as a "mini" for expanded sales opportunities. Also thrives in wet conditions, making it a useful pond plant.
TALL HABIT (18 in./46 cm and taller)								
Stipa Pony Tails ● <i>S. tenuissima</i> (Mexican Feather Grass)	Green	16-24 in./ 41-61 cm	24 in./61 cm	6-10	4 in./10 cm, 6 in./15 cm*, Gallon	5-6	7-10	Upright grass has fine, needlelike green foliage, with silky green flowers in July that mature to golden blonde.

*3 plants per pot



Javelin Juncus



Lucius Luzula



Pony Tails Stipa with Emerald Falls and Silver Falls Dichondra and New Day Clear Orange Gazania



Phoenix Green Carex



Red Rooster Carex



Blue Arrows Juncus



Javelin Juncus

Variety/Exposure	Colour group	Height	Spread	USDA Zones	Containers	Plug crop time (weeks)	Transplant to finish (weeks)	Features
TALL HABIT (18 in./46 cm and taller)								
Carex Phoenix Green ● <i>C. comans</i> (Leatherleaf Sedge)	Green	20-24 in./ 51-61 cm	16-20 in./ 41-51 cm	6-10	4 in./10 cm, 6 in./15 cm*, Gallon	5-7	6-7	Sturdy, upright, narrow-leaved sedge has bright green foliage. Good heat tolerance. Easy-care for accent in landscapes, planters.
Carex Red Rooster ● <i>C. buchananii</i>	Red	20-30 in./ 51-76 cm	12 in./30 cm	6-9	4 in./10 cm, 6 in./15 cm*, Gallon	6-7	8-9	Red-bronze grass has curled tips and upright habit.
Juncus Blue Arrows ● <i>J. inflexus</i>	Green	36 in./91 cm	12 in./30 cm	5-9	4 in./10 cm, 6 in./15 cm*, Gallon	6-7	6-7	Stiff, upright, blue-green foliage is well-suited to annual bedding and mixed containers. Heat-tolerant in a wide range of environments. Can be grown as a pond plant, but drought-tolerant when grown in-ground. Also makes a great indoor plant.
Juncus Javelin ● <i>J. pallidus</i>	Green	48 in./1.2 m	18-20 in./ 46-51 cm	8-10	4 in./10 cm, 6 in./15 cm*, Gallon	5-6	5-6	Developed from unique genetics and available only from PanAmerican Seed, Javelin makes a dramatic "thriller" for mixed containers. Can grow up to 5 ft./1.5 m tall in gardens/landscapes. Rugged, upright plant can grow in standing water, but also handles heat/drought. Provides great Winter interest, maintaining upright, stiff, straw-colour foliage.



Summer Showers White Blush
Ivy Geranium



Summer Showers Fuchsia
Ivy Geranium



Summer Showers Burgundy
Ivy Geranium



Summer Showers Mixture
Ivy Geranium



QIS Purple Gomphrena



Fireworks Gomphrena



Sunshine Mixture Gazania



QIS Orange Gomphrena



QIS Red Gomphrena



QIS Carmine Gomphrena
Fleuroselect Quality Mark

FUSEABLES

See **Plug & Play Combos**

GALLARDIA

See **Perennials**, page 145.

GAURA

See **Perennials**, page 146.

TETRAPLOID GAZANIA ●

Gazania rigens

Sunshine Mixture

Height: 12 in./30 cm

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

Seed supplied as: Raw

Plug crop time: 4 to 5 weeks

Transplant to finish: 9 to 10 weeks

- 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, with larger flowers and robust growth.

IVY GERANIUM ●

Pelargonium x peltatum

Summer Showers Series

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

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

Seed supplied as: Raw

Plug crop time: 4 to 5 weeks

Transplant to finish: 11 to 12 weeks

- 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 Compact habit is similar to White Blush.

White Blush Tidy, compact habit. Bright white florets with pink "whiskers" turn light pink at maturity.

GERBERA

See **Potted Plants**, page 169.

GOMPHRENA ●

Gomphrena haageana

QIS Series

Height: 24 to 26 in./61 to 66 cm

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

Seed supplied as: Raw

Plug crop time: 5 to 6 weeks

Transplant to finish: 10 to 12 weeks

- Versatile series works well for landscape and garden use.
- Vivid colour range makes these a Summer-long standout.
- Also as a first-class professional cut flower for greenhouse and outdoor production; suited to fresh and dried use.

Also available: **Mixture**

GOMPHRENA ●

Gomphrena pulchella

Fireworks



Height: 48 in./122 cm

Spread: 48 in./122 cm

Seed supplied as: Coated

Plug crop time: 5 to 6 weeks

Transplant to finish: 8 to 9 weeks

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



Silver Mist Helichrysum

GYP SOPHILA

See **Perennials**, page 146.

HELENIUM ●

Helenium amarum

Dakota Gold

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

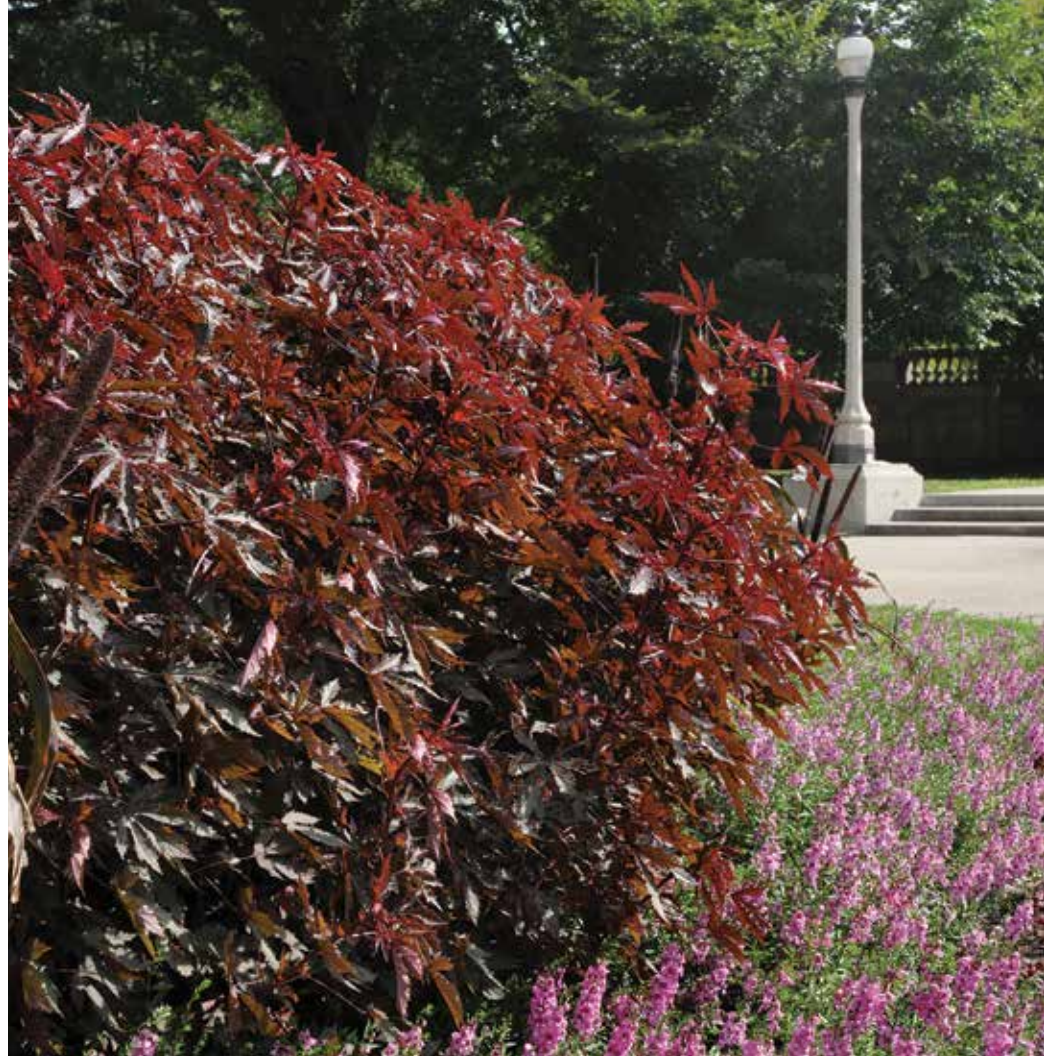
Spread: 24 to 28 in./61 to 71 cm

Seed supplied as: Multi-Seed Pellets

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

- 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*



Mahogany Splendor Hibiscus

HELICHRYSUM ●

Helichrysum microphyllum (Plectostachys serphyllifolia)

Silver Mist

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

Seed supplied as: Multi-Seed Pellets

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

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

HEUCHERA

See **Perennials**, page 146.

HIBISCUS ●

Hibiscus acetosella

Mahogany Splendor



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

Seed supplied as: Raw

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

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



Dakota Gold Helenium
US PVP 200600009



BEACON™
IMPATIENS

IMPATIENS ●●●

Impatiens walleriana

New Beacon™ Series F1



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

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

Flower size: 1.25 to 1.5 in./3 to 4 cm

Seed supplied as: Raw

Plug crop time: 4 to 5 weeks

Transplant to finish: 3 to 4 weeks

- Beacon impatiens exhibit high resistance to the currently known and widely prevalent populations of *Plasmopara obducens*, which cause Impatiens downy mildew.
- Beacon offers the opportunity to bring back into production a well-known, in-demand, easy-to-grow and versatile product for increased sales.
- With a plant structure, flowering time, flower size and crop culture that is similar to Super Elfin, Beacon is easy to incorporate into production planning.
- Offers season-long colour, and it brings back fast-filling colour to gardens and landscapes.

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

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

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

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

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

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

New Red White Mixture Bright Red, White.

New Select Mixture Bright Red, Coral, Orange, Salmon, Violet Shades, White.

High resistance to Impatiens downy mildew!

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

NEW

Beacon Orange



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



NEW
Violet Shades US PAF



NEW
White US PAF

NEW Beacon Series has high resistance to Impatiens downy mildew!



NEW
Bright Red US PAF



NEW
White US PAF



NEW
Coral US PAF



NEW
Salmon US PAF



NEW
Violet Shades US PAF



NEW
Orange US PAF



NEW
Select Mixture US PAF



NEW
Red White Mixture US PAF



Super Elfin XP Series



XP Rose

**XP = Precise,
programmable,
predictable!**

Count on Super Elfin XP varieties for a tight bloom window, prolific flowering, exceptionally uniform habit and strong plant vigour.

The Super Elfin XP series delivers a 5 to 7-day flowering window across all colours so all plants ship at the same time and you always meet market dates.



XP Red White Mixture



XP Formula Mixture



XP Clear Mixture



XP Hot Mixture

IMPATIENS ●●●●

Impatiens walleriana

Super Elfin® XP Series F1

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

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

Seed supplied as: Raw

Plug crop time: 4 to 5 weeks

Transplant to finish: 3 to 4 weeks

- Bring in the best habit, vigour and timing uniformity across a broad colour range with Super Elfin XP.
- The broad colour range lets you mix and match any Super Elfin XP variety to achieve the most uniform impatiens crop.



XP White



XP Pink



XP Coral



XP Salmon Splash



XP Red



XP Salmon



XP Rose



XP Violet Starburst



XP Blue Pearl



XP Lilac



XP Red Starburst



XP Punch



XP Scarlet



XP Violet



Cha Cha Mixture



Seaside Mixture



Paradise Mixture



Mixture



Bright Orange



Lipstick



Ruby

Super Elfin® Series F1

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

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

Seed supplied as: Raw

Plug crop time: 4 to 5 weeks

Transplant to finish: 3 to 4 weeks



Impreza Rose



White



Passion Mixture



Wedgewood Mixture



Select Mixture

IMPATIENS continued

Impreza™ Series F1

Height: 6 to 8 in./15 to 20 cm
Spread: 12 to 14 in./30 to 36 cm

Seed supplied as: Raw

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

- One of the most grower and retailer-friendly series available offers a streamlined range of top-selling colours.
 - Reduced apical dominance, decreased internode length and good soil coverage produce easy-to-manage plants with less upward stretch and potentially need fewer growth regulators - perfect for high-density programs.
 - Long shelf life for extended sales and reduced dump.
 - All colours finish in a 5 to 7-day window for efficient shipping and flexibility, letting you adjust the colour assortment to meet seasonal/regional and market needs.
 - Good garden fill - plants stay full and nice-looking all season with less lodging.
- Select Mixture** Blue Pearl, Rose, Salmon, Violet, White.



Pink



Blue Pearl



Cherry Splash



Rose



Salmon



Punch



Violet



White



Dazzler Baby Shower Mixture



Grower Select Mixture



Merlot Mixture



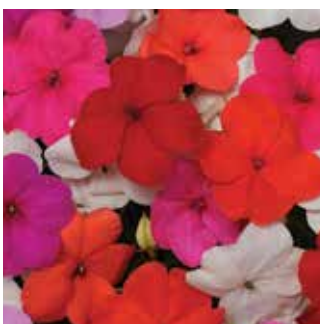
Moody Blues Mixture



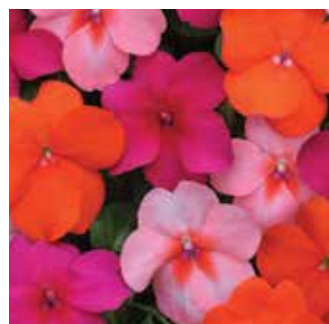
Tutti Frutti Mixture



Voodoo Too Mixture



Mixture



Passionfruit Mixture

Dazzler® Series F1

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

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

Seed supplied as: Coated

Plug crop time: 4 to 5 weeks

Transplant to finish: 3 to 4 weeks

Available in North America only.

- The highest seed quality and extremely uniform growth with high yields make 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 colours come into bloom together and flower freely right up until frost.

- Well-suited to pack, 4-in./10-cm pot and basket programs.



White



Salmon Splash



Salmon



Orange



Coral



Pink



Blue Pearl



Lilac Splash



Violet



Deep Pink



Rose



Scarlet



Red



Cranberry



Punch



Divine Series



Mixture



Salsa Mixture



Mystic Mixture



Orange



Lipstick



Orchid



Violet

RHS Award of Garden Merit



White



Orange Bronze Leaf



Pink



Blue Pearl



Lavender



Red

NEW GUINEA IMPATIENS



Impatiens hawkeri

Divine™ Series F1

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

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

Seed supplied as: Raw

Plug crop time: 5 to 6 weeks

Transplant to finish: 6 to 7 weeks

- Divine is an affordable, high-quality alternative to *I. walleriana*, with high resistance to Impatiens downy mildew, more single colours and mixes than other series, more vigour in planters and landscapes, and more consistent colour and seed quality.

- Grower-friendly series is perfect for shade landscape premium packs, 4-in./10-cm and quart pot programs.

- Range of production sizes offers flexible product assortment and pricing opportunities.

- Best-in-class seed quality delivers consistent, transplantable yields and quick crop time from plugs.

- 6 to 7-week finishing of premium packs from a 288 plug makes Divine a good fit in bedding plant production schemes.

- Uniform, full and big-bloomed plants also make lush hanging baskets and containers with all-season colour.

- Foliage ranges from green to bronze-green.

Mystic Mixture Lavender, Violet, White.

Salsa Mixture Orange Bronze Leaf, Red, White.



Tristar White Isotoma



Gemini Pink Isotoma



Tristar Sky Blue Isotoma



Gemini Blue Isotoma



Jealousy Leycesteria



NEW Plug & Play XXL Combo Feeling Frisky, see page 238.

IRESENE ●

Iresine herbstii

Purple Lady

Height: 6 to 8 in./15 to 20 cm
Spread: 36 to 48 in./91 to 122 cm

Seed supplied as: Raw

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

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

ISOLEPSIS

See **ColorGrass**, page 42.

ISOTOMA (LAURENTIA) ●

Isotoma axillaris

Tristar Series

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

Seed supplied as: Pelleted

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

- 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 Series F1

Height: 8 in./20 cm
Spread: 10 to 14 in./25 to 36 cm

Seed supplied as: Pelleted

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

- Vigorous, free-flowering series delivers excellent garden performance, yet keeps a controlled, mounded habit in containers.
- Easy to grow - well-matched for earliness and uniformity.
- Works well in premium pack and 3.5 to 4-in./9 to 10-cm programs.
- Single, star-shaped blooms over finely cut foliage.

LEYCESTERIA ●●

Leycesteria formosa

Jealousy

Height: 36 to 60 in./91 to 152 cm
Spread: 18 to 20 in./46 to 51 cm

Seed supplied as: Multi-Seed Pellets

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

USDA Hardiness Zones: 7a to 10b (0 to 35° F/-18 to 2° C minimum temperatures)

- 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; and purple fruit appears in Autumn.
- Can be marketed as an annual, perennial or shrub.

COLORGRASS JUNCUS

Blue Arrows, see **ColorGrass**, page 45.

Blue Dart, see **ColorGrass**, page 44.

Javelin, **ColorGrass**, page 45.

Starhead, see **ColorGrass**, page 43.

Twister, see **ColorGrass**, page 44.

FUSEABLES PLUG & PLAY JUNCUS

Twisted Arrows, page 226.

Twisted Dart, page 226.

KOELERIA

See **ColorGrass**, page 42.

LAVANDULA

See **Perennials**, page 148.

LIMONIUM (STATICE)

QIS Series, See **Cut Flowers**, page 185.

LINARIA ●

Linaria hybrida

Enchantment F1

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

Seed supplied as: Multi-Seed Pellets

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

- 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.



Purple Lady Iresine



Enchantment Linaria



Florida Pink Lisianthus



Florida Pink Lisianthus



Florida Blue Lisianthus



Florida Silver Lisianthus



Sapphire Pendula



Fountain Mixture Lobelia



Fountain White Lobelia



Fountain Lilac Lobelia



Fountain Blue Lobelia



Fountain Crimson Lobelia



Fountain Rose Lobelia

BEDDING LISIANTHUS ●
Eustoma grandiflorum

Florida Series F1

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

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

Seed supplied as: Pelleted

Plug crop time: 8 to 10 weeks

Transplant to finish: 12 to 16 weeks

- Our most heat-tolerant series for garden use; can also be used in potted plant programs.
- Resists rosetting in both plug stage and after transplanting.
- Single-plant in 4.5-in./12-cm or multi-plant in larger container.

CUT FLOWER LISIANTHUS

ABC Series, page 186.

Flare Series, page 185.

POTTED PLANT LISIANTHUS

Sapphire Series, page 174.

LOBELIA ●
Lobelia erinus

TRAILING LOBELIA

Fountain Series

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

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

Seed supplied as: Raw

Plug crop time: 4 to 5 weeks

Transplant to finish: 10 to 12 weeks

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

Sapphire Pendula

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

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

Seed supplied as: Raw

Plug crop time: 4 to 5 weeks

Transplant to finish: 10 to 12 weeks

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



Regatta White



Regatta Sky Blue



Regatta Lilac Splash

US PVP 200600188



Regatta Lilac



Regatta Sapphire



Regatta Blue Splash

Fleuroselect Quality Mark



Regatta Sky Blue, Sapphire, Rose, Midnight Blue & Blue Splash Lobelia

Regatta Series

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

Seed supplied as: Raw, Multi-Seed Pellets

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

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

COMPACT LOBELIA

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

Seed supplied as: Raw

Cobalt Blue (Not pictured)

Seed supplied as: Raw, Multi-Seed Pellets

Crystal Palace

Seed supplied as: Raw, Multi-Seed Pellets

Mrs. Clibran

Seed supplied as: Raw

Rapid Blue (Not pictured)

Seed supplied as: Raw, Multi-Seed Pellets

Rosamond

Seed supplied as: Raw

String Of Pearls

Seed supplied as: Raw

White Lady

Seed supplied as: Raw, Multi-Seed Pellets



Regatta Marine Blue



Regatta Rose Fleuroselect Quality Mark, Fleuroselect Novelty



Regatta Mixture



Regatta Midnight Blue



Cambridge Blue



Crystal Palace



Mrs. Clibran



Rosamond



String Of Pearls



White Lady



Riviera White *Fleuroselect Novelty*



Mixture

COMPACT LOBELIA continued

Riviera Series

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

Seed supplied as: Raw, Multi-Seed Pellets

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

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

PERENNIAL LOBELIA

Starship Series, page 152.

Vulcan Red Series, page 152.

LOBULARIA

See Alyssum.

LUZULA

See ColorGrass, page 43.



Midnight Blue *Fleuroselect Quality Mark, Fleuroselect Novelty*



Sky Blue *Fleuroselect Quality Mark*



Marine Blue



Blue Eyes



Rose *Fleuroselect Quality Mark*



Lilac



Blue Splash



White *Fleuroselect Novelty*



Mixture

**AFRICAN (AMERICAN)
MARIGOLD**
Tagetes erecta
Taishan® Series F1

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

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

Seed supplied as: Coated,
De-tailed

Plug crop time: 3 weeks

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

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



Taishan Series



Yellow



Gold



Orange



Marvel Orange



Marvel Orange



Marvel Gold



Marvel Mixture



Vanilla



Marvel Yellow

AFRICAN MARIGOLD *continued*

Marvel™ Series F1

Height: 18 in./46 cm
Spread: 10 in./25 cm

Seed supplied as: Coated, De-tailed

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

- Best intermediate-height African marigold on the market is ideal for professional landscaper programs.
- Performance-tested durability; sturdy stems hold up in shipping and poor weather.
- Initiates flowering faster under short days, blooming as soon as 60 days from sowing.

Vanilla F1

Height: 16 in./41 cm
Spread: 10 in./25 cm

Seed supplied as: Coated, De-tailed

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

- 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 8 cm across atop darker green foliage.
- Plants flower to match Marvel series timing – grow both to offer a full colour range.
- Well-suited to beds, borders and large mixed containers.

Create colourful Plug & Play Combos like this with Bonanza French marigolds!



Plug & Play Combo Cantina Heat, see page 233.



Bonanza Series



Mixture



Flame



Gold



Harmony

FRENCH MARIGOLD ●

Tagetes patula

DWARF CRESTED FRENCH MARIGOLD

Bonanza™ Series



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

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

Seed supplied as: Coated, De-tailed

Plug crop time: 3 weeks

Transplant to finish: 3 to 4 weeks

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

All-around performance

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



Yellow



Deep Orange Fleuroselect Novelty US PVPAF



Bolero US PVPAF



Bee



Strawberry Blonde US PAF, PCT



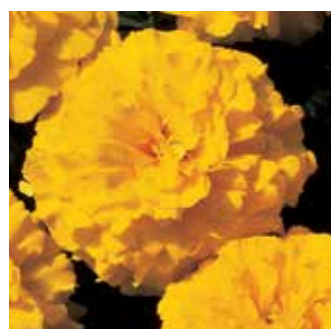
Fireball US PAF, PCT



NEW
Flamenco US PVPAF



Janie Deep Orange



Janie Bright Yellow



Gate Orange

DWARF CRESTED FRENCH MARIGOLD continued

Janie Series

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

Seed supplied as: Coated, De-tailed

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

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

Fireball Strawberry Blonde

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

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

Seed supplied as: Coated, De-tailed

Plug crop time: 3 weeks
Transplant to finish: Premium packs, 3 to 4 weeks; Quarts or multi-plants in larger pots, 4 to 6 weeks

- Meet the "New World marigolds" - Fireball and companion Strawberry Blonde introduce germplasm never seen before in African or French marigolds that puts multicolour blooms on the same plant.
- Completely new look for premium packs, pots and decorative containers.
- In early Spring growing conditions, flowers age and change colour more slowly for maximum contrast. In warmer conditions, colour changes faster with less distinct contrast.

New Flamenco



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

Seed supplied as: Coated, De-tailed

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

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

FULLY DOUBLE FRENCH MARIGOLD

Gate Orange

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

Seed supplied as: Raw, De-tailed

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

- A good choice for commercial landscapes, featuring round, fully double, 3-in./8-cm flowers that look like small African marigolds.
- Recommended as Summer pot annuals.



Orange US 9,326,467



Harmony US 9,326,464



Flame US 9,326,468



Hot Pak Mixture

HEAT-TOLERANT EXTRA-DWARF
CRESTED FRENCH MARIGOLD

Hot Pak™ Series



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

Seed supplied as: Coated, De-tailed

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

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



Fire



Spry US 9,326,466



Gold US 9,320,212



Yellow US 9,326,465



Outback Mixture



Gold



Bee



Durango Mixture



Yellow



Orange



Bolero



Tangerine



Red



Flame

DWARF ANEMONE FRENCH MARIGOLD

Durango® Series



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

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

Seed supplied as: Coated, De-tailed

Plug crop time: 3 weeks

Transplant to finish: 4 to 5 weeks

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

Outback Mixture Bolero, Red, Tangerine, Yellow.

MATRICARIA

See **Cut Flowers**, page 188.



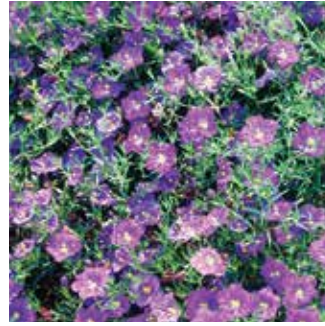
**Poetry Mixture
Nemesia**



**Poetry White
Nemesia**



Poetry Pink Nemesia



Purple Robe Nierembergia



Mini Mint Ornamental Mint



**Poetry Deep Pink
Nemesia**



**Poetry Blue
Nemesia**



Sundrops Mixture Nemesia
Fleuroselect Gold Medal

NIEREMBERGIA ●
Nierembergia caerulea



Kirigami Ornamental Oregano US PVPAF

ORNAMENTAL MINT ●●
Mentha requienii

ORNAMENTAL OREGANO ●
Origanum x hybrida

Poetry Series F1

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

Seed supplied as: Pelleted

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

- Uniform, grower-friendly varieties in bright colours are ideal for Spring and Autumn premium pack and 4-in./10-cm pot programs.
 - Branches very well without pinching to produce bushy plants that fill out fast and full.
 - 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.

NEMESIA ●
Nemesia strumosa

Sundrops Mixture

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

Seed supplied as: Raw

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

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

Purple Robe

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

Seed supplied as: Raw

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

- 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.

Mini Mint

Height: 1 to 2 in./3 to 5 cm
Spread: 6 to 12 in./15 to 30 cm

Seed supplied as: Multi-Seed Pellets

Plug crop time: 2 to 3 weeks
Transplant to finish: 3 to 4 weeks

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

- Easy, economical way to grow and sell this attractive, highly fragrant groundcover or small potted plant.
 - Each multi-seed pellet contains 8 to 12 seeds - one plug in a 4-in./10-cm pot delivers a nice fast fill. Can be direct sown.
 - Eliminates dividing, rooting cuttings and broadcasting seed.
 - Healthier, more uniform plants make great-looking 4-in./10-cm pots, mix components and garden specimens. Can also be marketed as a lawn replacement.
- NOTE: Leaves are non-toxic but do not have a palatable flavour.

Kirigami

Height: 8 to 10 in./20 to 25 cm
Spread: 12 to 14 in./30 to 36 cm

Seed supplied as: Raw

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

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



Jade Princess



Copper Prince

ORNAMENTAL MILLET ●●●

Pennisetum glaucum

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

Copper Prince F1

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

Seed supplied as: Raw

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

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

Jade Princess F1

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

Seed supplied as: Raw

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

- Intense chartreuse foliage and rich brown, pollenless panicles have a controlled, mounded shape that is more compact than others in the assortment, so plants ship well.
 - Economical grower option - seed can be direct-sown into finish containers, plants are well-suited to pot sizes up to gallons, and the crop finishes fast.
 - Great tillering, leading to a bushy plant habit that's perfect for large containers and landscapes.
- NOTE: Jade Princess requires warmer temperatures (above 60°F/16°C) than other millets to perform well.

Purple Majesty

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

Seed supplied as: Raw

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

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

Jester F1

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

Seed supplied as: Raw

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

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

Purple Baron F1

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

Seed supplied as: Raw

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

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

MYOSOTIS

See **Perennials**, page 153.

NEPETA

See **Perennials**, page 153.

NEW GUINEA IMPATIENS

See page 54.

ORNAMENTAL CORN

See page 34.

ORNAMENTAL MINT

See page 65.

ORNAMENTAL OREGANO

See page 65.

ORNAMENTAL PEPPER

See page 81.

Also see **Potted Plants**, page 162.



Jester



Purple Baron



Purple Majesty All-America Selections National Winner

OSTEOSPERMUM ●

Osteospermum ecklonis

Akila® Series F1



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

Seed supplied as: Raw

Plug crop time: 4 to 5 weeks

Transplant to finish: Spring 10 to 12 weeks, Autumn 7 to 9 weeks

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

Daisy White Petals have a yellow back.

New Sunset Shades This new multicolour segregating mix includes popular colours like yellow, magicians and rose-reds, plus salmon, apricot and orange shades. A gorgeous mix of the colours of the setting sun.

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



NEW
Sunset Shades



NEW
Akila Sunset Shades



White Purple Eye



Purple



White



Daisy White All-America Selections
National Winner, Fleuroselect Gold Medal



Lavender Shades



Grand Canyon Mixture



Mixture



Matrix Series

Make your life easier

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

PANSY 
Viola x wittrockiana

EXTRA-LARGE FLOWERED
PANSY

Matrix® Series F1



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

Seed supplied as: Raw, Primed

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

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

New Blue Blotch Improved Flower timing has been improved to better match the series. It also offers improved flower presentation.

New Midnight Glow This new colour addition to the series offers a yellow centre with a deep violet halo around it. Great for Autumn programs.

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

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



White



Primrose



Lemon



Yellow



Orange



Rose



Light Blue



True Blue



Purple



White Blotch



Yellow Blotch



Rose Blotch



Solar Flare



Red Blotch



Ocean



Beaconsfield



NEW Blue Blotch Improved



Deep Blue Blotch



Denim



NEW Midnight Glow



NEW Yellow Purple Wing



Sunrise



Rose Wing



Red Wing



Morpheus



Lavender Shades



Matrix Series



Blotch Mixture

Clear Mixture



Harvest Mixture

Autumn Blaze Mixture



Halloween Mixture

Citrus Mixture



Coastal Sunrise Mixture

Ocean Breeze Mixture



Mixture



Topaz Mixture

Matrix mixtures

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

Citrus Mixture Orange, Primrose, White, Yellow.

Coastal Sunrise Mixture Ocean, Rose Blotch, Sunrise.

Halloween Mixture Orange and Purple.

Harvest Mixture Yellow, Purple, Orange.

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

Raspberry Sundae Mixture Rose Wing, Rose, White Blotch.

Tricolor Mixture Lemon, True Blue, Purple.

Matrix Gemstone mixtures

Amber Mixture Orange, Yellow, Lemon.

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

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

Ruby Mixture Rose, Rose Wing, Rose Blotch.

Tanzanite Mixture Ocean, White Blotch, Purple.

Topaz and Garnet Mixture Orange, Red Blotch, Yellow.



Raspberry Sundae Mixture



Amber Mixture



Tanzanite Mixture



Tricolor Mixture



Amethyst Mixture



Ruby Mixture



Topaz and Garnet Mixture



Jewels Mixture



Spring Matrix White Blotch

Your simplest solution for Spring

If you're using another pansy series and you're not happy with the uniformity or plant habit, try Spring Matrix. Spring Matrix is designed for cool-season, short-day growing conditions - or when you need a large bloom that maintains good presentation under cold, dark, wet Winter production.

LARGE-FLOWERED PANSY

Spring Matrix™ Series F1



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

Seed supplied as: Raw, Primed

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

- *Your best option for shorter days and cool growing* - plants look better, last longer and have the tightest flowering window for less dump.
- Most uniform Spring-flowering series produces large blooms that maintain good presentation under cold, dark, wet Winter production.
- Superior branching without stretching puts more flowers on every plant.

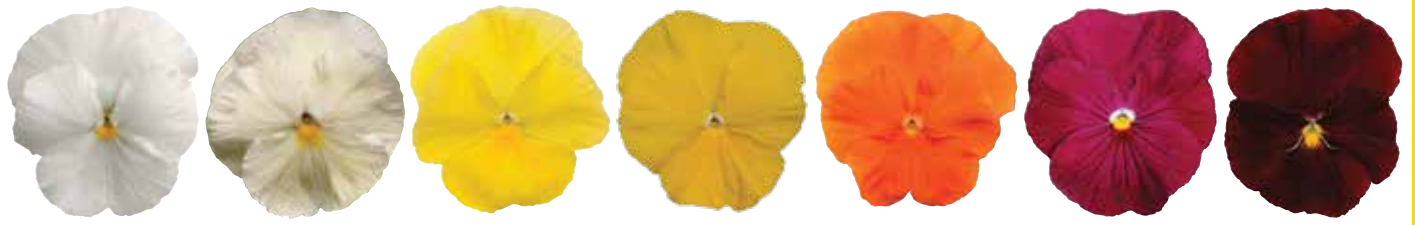
Blue Wing Displays stronger blue colour under cool temperatures.

Ocean Can contain a small percentage of white with blotch.

Daffodil Mixture Deep Orange, Lemon, Yellow, White.

Pastel Mixture Pink Shades, Lemon, Blue.

Tricolor Mixture Blue, Lemon, Purple.



White Primrose Lemon Yellow Deep Orange Rose Scarlet



Blue Purple White Blotch Yellow Blotch Rose Blotch Red Blotch Ocean



Beaconsfield Blue Blotch Lavender Shades Pink Shades



Purple & White Sangria Blue Wing Midnight Glow



Pastel Mixture



Clear Mixture



Daffodil Mixture



Mixture



Blotch Mixture



Tricolor Mixture



Promise Pure White



White Blotch



Pure Lemon



Pure Yellow



Yellow Blotch



Sunset



Yellow Red Wing



Denim



Marina



Rose Blotch



Red Blotch



Pure Silver Azure



NEW Blue Blotch Improved



True Blue



Blue White Whiskers



Moonlight



Beaconsfield



Antique Shades

LARGE-FLOWERED PANSY continued

Promise® Series F1

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

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

Flower size: 2.75 in./7 cm

Seed supplied as: Raw, Primed

Plug crop time: 5 weeks

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

- Selected for European growing conditions, Promise is ideal for high-density, pot-tight Spring programs for the European market.
- Early, compact plants with large flowers will not extend beyond the edge of the pot in production.
- Excellent landscape vigour and floriferousness over a long period of time.
- Good for in-ground and container plantings.
- Wide range of classic and contemporary colours.

New Blue Blotch Improved Offers more reliable seed quality.

Moonlight White with blotch flowers have a purple cap; lower petals mature to mid to dark blue (YTT); appealing at all colour stages.

Also available: **Outback Fire**, **Blotch Mixture** and **Mixture**.



Frizzle Sizzle Mixture

MEDIUM-FLOWERED PANSY

Halloween Improved F1

Height: 6 to 8 in./15 to 20 cm
Spread: 8 to 10 in./20 to 25 cm
Flower size: 1.75 to 2 in./4 to 5 cm

Seed supplied as: Raw, Primed

Plug crop time: 5 weeks

Transplant to finish: Autumn 2 to 3 weeks

- Replaces Halloween II with less stretch under Autumn growing conditions and a larger flower size.
- Blooms are a unique, uniform pure black colour, on strong, short peduncles.
- Early, well-branched and floriferous plants are great for Autumn pots and packs, and overwinter with ease when planted in-ground.

NOTE: In black pansies, a small percentage of white/yellow bicolor off-types is common. Halloween Improved has about 3% of these plants in the population.

RUFFLED PANSY

Frizzle Sizzle Series F1

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

Seed supplied as: Raw, Primed

Plug crop time: 5 weeks

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

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

New Lemonberry Earlier with less stretch, and it replaces Fizzy Lemonberry.

Mixture Also includes lavender shades (not available separately).



Frizzle Sizzle Yellow



Frizzle Sizzle Orange



Frizzle Sizzle Yellow-Blue Swirl



Frizzle Sizzle Raspberry



Frizzle Sizzle Blue



Frizzle Sizzle Burgundy



Frizzle Sizzle Lemonade



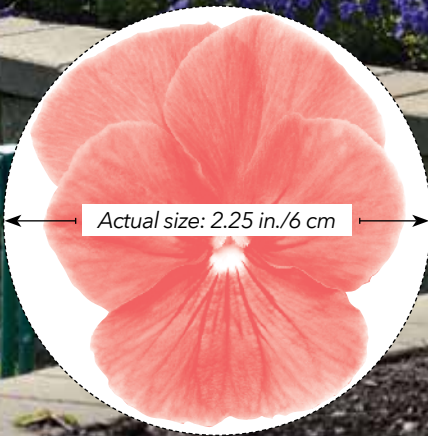
Halloween Improved



NEW
Frizzle Sizzle Lemonberry



Panola XP True Blue



XP Autumn Blaze Mixture



XP Blackberry Sundae Mixture



XP Mixture



XP Halloween Mixture



XP Citrus Mixture

MULTIFLORA PANSY

Panola® XP Series F1



Height: 6 to 8 in./15 to 20 cm
Spread: 8 to 10 in./20 to 25 cm
Flower size: 2 to 2.25 in./5 to 6 cm

Seed supplied as: Raw, Primed

Plug crop time: 5 weeks

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

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

- Both Panola XP and standard colours outperform standard medium-flowered varieties in all kinds of conditions.

- 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.

- Landscaper-friendly clear colours are perfect for mixing custom blends.

Autumn Blaze Mixture XP Scarlet, XP Sunburst, XP Yellow.

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

Blackberry Sundae Mixture XP Purple Face, XP Purple, XP White.

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

Halloween Mixture XP Deep Orange plus Halloween Improved.



XP Clear Mixture



XP Blotch Mixture



XP Baby Boy Mixture



XP White



XP Yellow



XP Deep Orange



XP Scarlet



XP True Blue



XP Purple



XP White Blotch



XP Yellow Blotch



XP Sunburst



XP Beaconsfield



XP Deep Blue Blotch



XP Marina



XP Rose Picotee



XP Purple Face



XP Fire



Panola Silhouette Mixture



Panola Primrose



Panola Yellow & Purple



Panola Pink Shades



Panola Lilac Shades

Panola® Series F1

Height: 6 to 8 in./15 to 20 cm
 Spread: 8 to 10 in./20 to 25 cm
 Flower size: 2.25 in./6 cm

Seed supplied as: Raw, Primed

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

Silhouette Mixture Primrose and Pink Shades plus shades of lilac.

PAPAVER (POPPY)
 See Perennials, page 153.

PENSTEMON
 See Perennials, page 154.



Lucky Star Series



L: Competing Violet variety R: Lucky Star Violet



Lucky Star Series

Stays in colour... Really!

Lucky Star is bred for the fastest follow-up blooming of any full colour series pentas on the market. Nonstop colour means plants look better getting off the truck and they just keep getting better in the store! Plus, this colour-rich series has a tight, compact habit that keeps them looking tidy with virtually no effort.

PENTAS ●

Pentas lanceolata

Lucky Star® Series F1



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

Seed supplied as: Pelleted

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

- With the fastest follow-up blooming of any full colour series pentas on the market and a 1-week bloom window, Lucky Star maintains a consistent show of colour from retail through end-of-season.

- Follow-up blooms do not eclipse the prior flush, so plants stay compact, tight and ready for sale at retail with minimal work.

New Lipstick Matches the series with fast secondary/follow-up blooming and compact habit.

New White Improved Earlier to flower, with increased vigour and a better habit.

Mixture A heat-loving, vibrant colour mix.

Use Lucky Star pentas to create star-studded Plug & Play Combos like this!



Plug & Play Combo Star Bright, see page 234.



Mixture



NEW
Lipstick



NEW
White Improved



Dark Red



Pink



Violet



Deep Pink



Lavender



Butterfly Series



Butterfly White



Butterfly Light Lavender



Butterfly Orchid



Butterfly Deep Pink



Butterfly Deep Rose



Butterfly Red



Glitterati Purple Star US PAF

PENTAS continued

Butterfly™ Series F1



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

Seed supplied as: Pelleted

Plug crop time: 6 to 8 weeks
Transplant to finish: South 8 to 10 weeks, North 10 to 12 weeks

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

Glitterati™ Purple Star F1

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

Seed supplied as: Pelleted

Plug crop time: 6 to 7 weeks
Transplant to finish: 8 to 10 weeks

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

PEROVSKIA
See **Perennials**, page 155.

ORNAMENTAL PEPPER ●
Capsicum annuum

Seed supplied as: Raw

Plug crop time: 4 to 5 weeks

Midnight Fire

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

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

Transplant to finish: 7 to 13 weeks for Autumn finish

- Distinctive dark black foliage is accented by purple fruit which mature to bright red - this eye-catching combination is sure to result in fast sell-through.
- Well-branched plants are perfect for stunning Autumn combination planters and large container programs at retail.
- Best in 6 and 8-in./15 and 20-cm pots, gallons and Mum Pals programs.

Sangria F1

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

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

Transplant to finish: 7 to 13 weeks for Autumn finish

- Child-safe, non-pungent fruit is great for public plantings indoors and out.
- Indeterminate plants always have both purple and red peppers for continuous, eye-catching displays.
- Well-branched and somewhat spreading, the uniform, full-bodied plants are ideal for filling in landscapes and containers.
- Best in 6 and 8-in./15 and 20-cm pots, gallons and Mum Pals programs.

Sedona Sun

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

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

Transplant to finish: 7 to 13 weeks for Autumn finish

- Here's another opportunity to expand Autumn sales - this time in your large pot and home gardener landscape programs.
- Masses of distinctive lemon yellow and carrot orange fruit put a brilliant, multicolour display on every plant.
- Indeterminate habit like Sangria, with similar timing.
- Best in 6 and 8-in./15 and 20-cm pots, gallons and Mum Pals programs.

NOTE: Fruit is hot.

FOLIAGE ORNAMENTAL PEPPER

Black Pearl

Height: 14 to 18 in./35 to 45 cm; may grow to 3 ft./91 cm or more in warmer areas with longer growing seasons

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

- The first black-leaved ornamental pepper is ideal for landscapes and mixed containers.
 - Bushy, upright, well-branched plants have greenish foliage when young that matures to glossy black with high light and heat.
 - In the landscape, plants develop rounded, shiny black fruit that matures to dark red.
 - Best in 6 and 8-in./15 and 20-cm pots, gallons and Mum Pals programs.
- NOTE: Fruit is hot.

Calico F1

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

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

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

- High-appeal, strongly variegated foliage of purple, cream and green.
 - Compact, well-branched and rounded accent plants are uniform in size across the crop for easy production.
 - Extremely heat-tolerant - great for landscaping and mixed containers.
 - Best in 6 and 8-in./15 and 20-cm pots, gallons and Mum Pals programs.
- NOTE: Fruit is hot.

Purple Flash

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

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

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

- Striking colouration and interesting plant architecture enhance gardens and mixed containers 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.
 - Best in 6 and 8-in./15 and 20-cm pots, gallons and Mum Pals programs.
- NOTE: Fruit is hot.

ADDITIONAL ORNAMENTAL PEPPERS

See **Potted Plants**, page 162.



Midnight Fire



Sedona Sun



Calico



Sangria US 7,393,995 and 7,696,416



Purple Flash

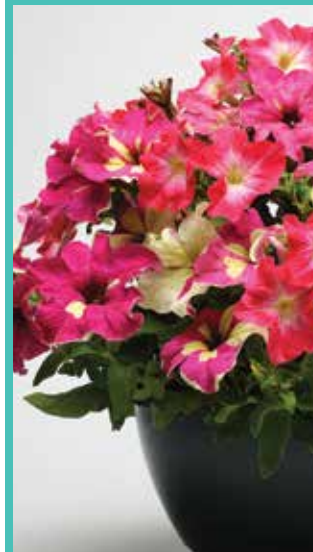


Black Pearl All-America Selections National Winner, Fleuroselect Quality Mark, Fleuroselect Novelty US PVP 200500020



Dreams Burgundy

Choose Dreams and Sophistica petunias to add a tropical feel to Fuseable Combos like this!



Fuseables Lime Coral, see page 224.

PETUNIA ●
Petunia x hybrida

GRANDIFLORA SINGLE
PETUNIA

Dreams™ Series F1



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

Seed supplied as: Raw, Pelleted

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

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

Pink Vein Not available in North America.

Patriot Mixture Red, White, Midnight.

Waterfall Mixture Sky Blue, Midnight, White.

Timing is everything

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



White



Pink Vein



Appleblossom



Salmon



Coral Morn



Rose Morn



Pink



Neon Rose



Rose



Burgundy



Red



Sky Blue



Midnight



Rose Picotee



Red Picotee



Burgundy Picotee



Waterfall Mixture



Patriot Mixture



Mixture



Sophistica Lime Bicolor, Antique Shades & Lime Green



Debonair Dusty Rose
US 7,642,436; EU PAF



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



Debonair Black Cherry
US 7,642,436; EU PAF



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



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

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

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

GRANDIFLORA SINGLE PETUNIA

Sophistica® Collection F1

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

Seed supplied as: Pelleted

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

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

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

Twilight Blooms have smoky mauve top and green underside.

MULTIFLORA SINGLE PETUNIA

Debonair™ Collection F1

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

Seed supplied as: Pelleted

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

Dusty Rose Flowers become lighter in higher light/warmer conditions.



Sophistica Twilight
US 7,642,436; EU PAF



Sophistica Blackberry
US 7,642,436; EU PAF



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



Sophistica Blue Morn



Peppermint Daddy



Red Daddy



Blue Daddy



Pink Daddy



Use Dreams and Daddy petunias to add striking hues to combos like this!

Fuseables Pleasantly Blue, see page 224.

GRANDIFLORA SINGLE PETUNIA

Daddy® Series F1

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

Seed supplied as: Raw, Pelleted

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

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

Supercascade Series F1

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

Seed supplied as: Raw, Pelleted

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

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



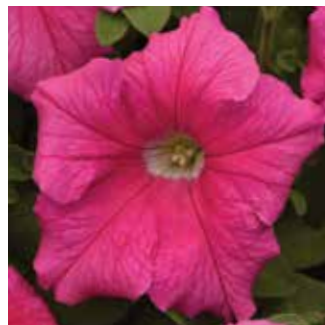
Sugar Daddy



Daddy Mixture



Orchid Daddy
All-America Selections National Winner



Supercascade Pink



Supercascade Rose



Supercascade Burgundy



Supercascade Red



Supercascade Blue



Supercascade Lilac



Supercascade White



Supercascade Mixture



Ez Rider Mixture



Ez Rider White



Ez Rider Deep Pink



Ez Rider Deep Salmon



Ez Rider Rose



Ez Rider Red



Ez Rider Blue

COMPACT GROWING PETUNIA

Grandiflora Ez Rider and multiflora Lo Rider put flexibility at your fingertips and cost savings in your pocket, thanks to their matched and manageable growth from bench to retail. These genetically shorter, more controlled plants need less PGRs and are perfect for high-density programs. The two series solve the seasonal, geographic and control challenges of traditional petunias - they're perfect for growing and selling high-density cell packs to "promo" hanging baskets.

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

Ez Rider® Grandiflora Series F1

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

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

Seed supplied as: Pelleted

Plug crop time: 4 to 5 weeks

Transplant to finish: 5 to 6 weeks

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

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

Lo Rider™ Multiflora Series F1

Height: 7 to 10 in./18 to 25 cm

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

Seed supplied as: Pelleted

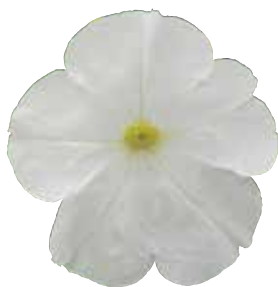
Plug crop time: 4 to 5 weeks

Transplant to finish: 5 to 6 weeks

Not available in North America.

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

Also available: **Mixture**



Lo Rider White



Lo Rider Pink



Lo Rider Rose



Lo Rider Violet



Lo Rider Red



Lo Rider Blue



Pretty Grand Flag Mixture



Pretty Grand Formula Mixture



Pretty Grand Midnight



Pretty Grand Purple



Pretty Grand White



Pretty Grand Coral

The Pretty collection needs fewer to no PGRs and is suitable for cold growing. Naturally better branching with shorter internodes keeps plants manageable longer. The controlled habit assures tidier baskets than traditional petunias - plants hold together and don't lodge later in the season like standard petunias can. Better branching and flowers above the foliage minimize *Botrytis* risk. Offers a tight bloom window and longer performance in beds and landscapes.

Pretty Grand™ Grandiflora Series F1

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

Seed supplied as: Pelleted

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

Available in North America only.
Flag Mixture Midnight, Red, White.

Pretty Flora™ Floribunda Series F1

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

Seed supplied as: Pelleted

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

Available in North America only.
Pink Pearl Holds its soft, shimmering colour in high light/warm night conditions.
Flag Mixture Midnight, Red, White.
Formula Mixture 7 to 9-day flowering window.



Pretty Grand Red



Pretty Grand Summer



Pretty Grand Rose



Pretty Grand Deep Pink



Pretty Grand Violet



Pretty Flora Formula Mixture



Pretty Flora Purple



Pretty Flora Pink



Pretty Flora Flag Mixture



Pretty Flora Red



Pretty Flora Rose



Pretty Flora Pink Pearl



Pretty Flora White



Pretty Flora Coral



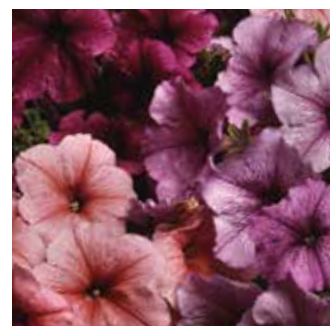
Pretty Flora Midnight



Mirage Red and White



Mixture



Reflections Mixture

MULTIFLORA SINGLE PETUNIA

Mirage Series F1

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

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

Seed supplied as: Raw, Pelleted

Plug crop time: 4 to 5 weeks

Transplant to finish: 4 to 5 weeks

Not available for sale in North America.

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

Pink Chiffon Holds its colour quality in high light/warm night locations. Tolerant of cold growing situations.

Reflections Mixture Contains veined colours.



White

Yellow

Pink Chiffon

Salmon

Salmon Morn

Pink



Rose Morn

Chic

Spring

Sugar

Summer

Orchid



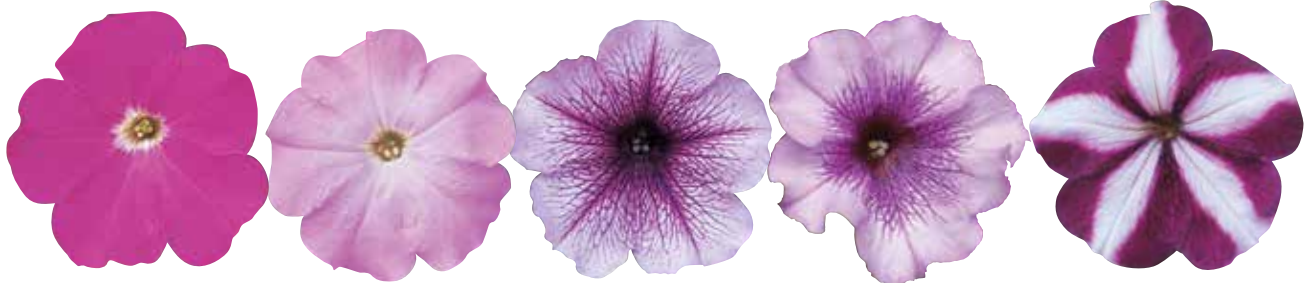
Velvet

Rose

Red Morn

Red

Red Picotee



Carmine

Lilac

Lavender

Plum Crystal

Burgundy Star



Purple

Blue Star

Light Blue

Mid-Blue

Blue



Carpet Pink



True Blue

MULTIFLORA SINGLE PETUNIA

Carpet Series F1

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

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

Seed supplied as: Raw, Pelleted

Plug crop time: 4 to 5 weeks

Transplant to finish: 4 to 5 weeks

- Heat-tolerant Carpet petunias deliver incredible performance in high-heat areas.
- Provides a lush carpet of colour all season long.
- Free-flowering with excellent branching and mid-size blooms.

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



Rose Star



Blue Star



White



Salmon



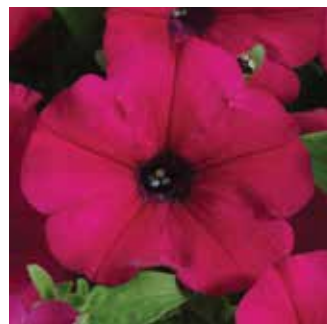
Pink



Rose



Plum



Velvet



Bright Red



Lilac



Sky Blue



Blue Lace



True Blue



Blue



Mixture



Neptune Mixture



Madness Series



Red



Total Madness Mixture



Moonlight Madness Mixture



Waterfall Madness Mixture



Madness Merlot Mixture



Clear Madness Mixture



Madness Old Glory Mixture



Just Madness Mixture

FLORIBUNDA PETUNIA

Madness® Series F1



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

Seed supplied as: Pelleted

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

Available in North America only.

- Home gardeners and pro landscapers across North America know they can count on fantastic flower power...a bounty of vibrant colours...and never-ending shows that last until first frost.

- 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./8-cm blooms.

Clear Madness Mixture Contains all clear colours except Yellow and Pink.

Just Madness Mixture Six veined colours.

Madness Merlot Mixture Carmine, Lavender, Pink, White.

Moonlight Madness Mixture Lavender Glow, Yellow, Lilac.

Madness Old Glory Mixture Red, White, Midnight.

Total Madness Mixture Bright mix of 14 colours.

Waterfall Mixture Lilac, Magenta, Royal, White.



White



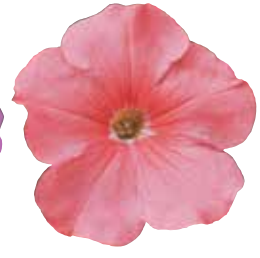
Yellow



Pink Chiffon



Lilac



Simply



Spring



Sugar



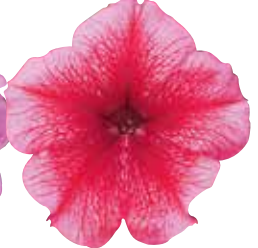
Salmon Morn



Rose Morn



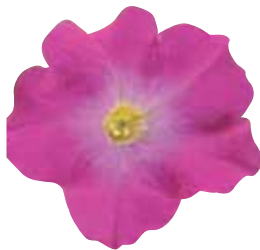
Sheer



Summer



Pink



Lavender Glow



Carmine



Magenta



Plum



Rose



Red Morn



Red Picotee



Red



Burgundy



Orchid



Plum Crazy



Burgundy Star



Royal



Midnight



Double Cascade Mixture



Double Cascade Blue



Double Cascade Burgundy



Bonanza Mixture

DOUBLE PETUNIA ●

Petunia x hybrida

FLORIBUNDA DOUBLE PETUNIA

Bonanza Mixture F1

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

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

Seed supplied as: Raw, Pelleted

Plug crop time: 4 to 5 weeks

Transplant to finish: 5 to 6 weeks

- 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.

MULTIFLORA DOUBLE PETUNIA

Duo Series F1

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

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

Seed supplied as: Raw, Pelleted

Plug crop time: 4 to 5 weeks

Transplant to finish: 5 to 6 weeks

Not available for sale in North America.

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

GRANDIFLORA DOUBLE PETUNIA

Double Cascade Series F1

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

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

Seed supplied as: Raw, Pelleted

Plug crop time: 4 to 5 weeks

Transplant to finish: 6 to 7 weeks

- Huge, 3 to 3.5-in./8 to 9-cm, double flowers resemble carnations.
- Outstanding habit and good branching.
- Excellent program for late Spring sales.
- Well-suited to larger containers, mixed combination planters and beds.

New Valentine Beautiful red blooms can have splashes of white appear on some of the tips. The unique double flowers feature a delicate fringe. Smaller flowers than the rest of the series.



Double Cascade Orchid Mist



Double Cascade Valentine



Double Cascade Pink



Duo Mixture



Duo Red And White



Duo Rose And White



Duo Rose



Duo Salmon



Duo Satin Pink



Duo Blue



Duo Burgundy



Duo Lavender

Glorious Mixture F1

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

- Bright mix of solids and bicolours.

Pirouette Series F1

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

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



Pirouette Red



Glorious Mixture



Pirouette Purple
All-America Selections National Winner



Pirouette Rose



Double Madness Rose And White



Satin Pink



Salmon



Rose



Burgundy



Red And White



Lavender



Blue



Mixture

FLORIBUNDA DOUBLE PETUNIA

Double Madness™ Series F1

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

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

Seed supplied as: Pelleted

Plug crop time: 4 to 5 weeks

Transplant to finish: 5 to 6 weeks

Available in North America only.

- Offers the same superior performance as the original Madness series.
- Compact, 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.

Use 21st Century phlox in dreamy Plug & Play Combos like this!



Plug & Play Combo Lemon Dream, see page 230.

PHLOX ●

Phlox drummondii

21st Century Series F1

Height: 10 in./25 cm

Spread: 10 in./25 cm

Seed supplied as: Primed

Plug crop time: 4 to 5 weeks

Transplant to finish: 6 weeks

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

Patriot Mixture Crimson, Blue, White.



Scarlet



Blue



White



Crimson



Pink



Mixture



Patriot Mixture



Promise Rose Fleuroselect Quality Mark



Promise Peach Fleuroselect Quality Mark, Fleuroselect Novelty



Promise White Fleuroselect Quality Mark



Ethnie Light Blue



Ethnie Salmon



Promise Lilac



Promise Mixture



Ethnie White



Ethnie Purple Violet



Ethnie Scarlet



Ethnie Dark Rose



Ethnie Mixture

PHLOX continued

Ethnie Series

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

Seed supplied as: Raw

Plug crop time: 4 to 5 weeks

Transplant to finish: 6 to 7 weeks

- 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.
- No PGRs are needed in production.

Promise Series

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

Seed supplied as: Raw

Plug crop time: 4 to 5 weeks

Transplant to finish: 7 to 8 weeks

- Very floriferous plants feature double and semi-double flowers held well above the foliage.
- Strong outdoor vigour assures long-lasting garden performance.
- Well-suited to large pack and pot production.



Promise Scarlet



Promise Pink



Grammy Pink & White *Fleuroselect Gold Medal*

Grammy Pink & White F1

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

Seed supplied as: Primed

Plug crop time: 4 to 5 weeks

Transplant to finish: 7 to 8 weeks

- 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.

PLECTRANTHUS ●●

Plectranthus argentatus

Silver Crest

Height: 8 to 10 in./20 to 25 cm
Spread: 18 to 24 in./46 to 61 cm

Seed supplied as: Raw

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

- Compact accent plant is an easy and economical choice for mixed containers, baskets and landscapes.
- Tolerant of heat and water stress.
- Silvery green, fuzzy foliage and small, blush white flowers on well-branched, trailing plants.



Silver Crest Plectranthus



Silver Shield Plectranthus



Heritage Crème Primula

Silver Shield

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

Seed supplied as: Pelleted

Plug crop time: 5 to 6 weeks

Transplant to finish: 8 to 9 weeks

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

POPPY

See **Papaver** in **Perennials**, page 153.

PRIMULA ●●

Primula acaulis

Heritage Crème F1

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

Seed supplied as: Raw

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

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



NEW
Optic Gold



NEW
Scarlet Flame



NEW
Gold



NEW
Scarlet Flame

PRIMULA continued

Optic™ Series F1

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

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

Seed supplied as: Primed

Plug crop time: 5 to 6 weeks

Transplant to finish: Autumn 13 to 15 weeks

- Full-flowering varieties with tidy green foliage provide bright and rich, non-fading colour in Autumn and Winter gardens and planters.
- Compact plants require less PGRs, and the series needs less cold to initiate flowers, making for easier programming.
- Superior seed quality results in a very uniform plant.

Blue One of the most compact in the series, featuring small, ruffled leaves.

Copper Shades of copper spark up Autumn mixes.

Cream One of the fastest to flower in the series.

New Gold The most vigorous plant in the series.

Rose One of the earliest to flower in the series, and one of the best varieties due to its uniformity and great habit.

Scarlet One of the latest to flower in the series, with a more compact habit.

New Scarlet Flame More stable scarlet flame bicolor pattern than competing varieties. Its large yellow flame brightens up any mix.

White Presents an attractive eye in the bloom centre. Flowers can be slightly ruffled.

Yellow Attractive eye in the centre of the bloom.

Mixture Contains all of the important colours and some novelties, for a good, balanced, uniform mix with a short flowering window.



Blue



Yellow



Copper



Cream



Rose



Scarlet



Mixture



White



Primlet Mixture



Scarlet Red Shades

Primlet® Series

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

Seed supplied as: Raw

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

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

Purple Most vigorous of the series.



Purple



Golden Shades



Pink Shades



Rose With Edge



Rose



Sunrise



White



Lemon Shades



Yellow



Happy Hour Series



Coconut



Lemon



Orange



Banana



Rosita



Fuchsia



Peppermint



Deep Red



Tropical Mixture



Pink Passion Mixture



Mixture



Happy Hour (L) blooms earlier under shorter days than competing variety (R).

PORTULACA ●
Portulaca grandiflora

Happy Hour™ Series F1

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

Seed supplied as: Raw, Multi-Seed Pellets

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

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

Pink Passion Mixture Rosita, Peppermint, Fuchsia.

Tropical Mixture Deep Red, Orange, Banana.



Happy Trails Pink

TRAILING PORTULACA ●
Portulaca grandiflora

Happy Trails™ Series F1

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

Seed supplied as: Raw, Multi-Seed Pellets

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

- Trailing portulaca series has the shortest photoperiod on the market today - 10 hours.
- Sow up to 2 weeks earlier than any other trailing portulaca to meet market demands.
- Most vivid colour assortment available, including intense Deep Red and unique Rosita.
- Delivers brilliant colours and fantastic spread in the garden.



Rosita



White



Peppermint



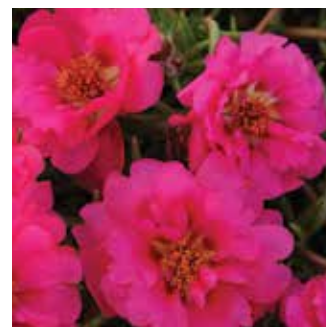
Yellow



Orange



Pink



Fuchsia



Deep Red



Mixture



Toucan Fuchsia Purslane



Toucan Scarlet Shades Purslane



Southern Star White Ruellia



Southern Star Blue Ruellia



Southern Star Pink Ruellia

PURSLANE ●
Portulaca oleracea

Toucan Series

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

Seed supplied as: Raw

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

- Economical, reliable and programmable seed-grown purslanes for mass-market baskets and containers.
 - Requires little or no PGRs, no pinching.
 - Colourful buds develop into 2-in./5-cm blooms.
 - Heat loving and drought tolerant.
- NOTE: We recommend to sow 4 seeds per cell.

PERENNIAL RUDBECKIA
See page 154.

RUELLIA ●
Ruellia brittoniana

Southern Star Series

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

Seed supplied as: Raw

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

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

SCUTELLARIA ●
Scutellaria javanica

Veranda

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

Seed supplied as: Raw

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

- 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.



Veranda Scutellaria

The name says it all!

Big Blue salvia is exactly that - a vigorous flowering annual in a sales-inspiring clear blue colour. *The first of its type from seed*, this big beauty will pump up mid-Summer sales in large containers. Super easy and super showy for both landscapers and home gardeners for their back-of-border plantings, sending out blue spires continuously from July to first frost with little to no extra care.



Big Blue US PVP 201700218

SALVIA INTERSPECIFIC ●

Salvia longispicata x farinacea

Big Blue

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

Spread: 18 to 20 in./46 to 51 cm

Seed supplied as: Raw

Plug crop time (288 tray): 4 weeks

Transplant to finish: 8 to 13 weeks, depending on light, heat and daylength conditions

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



Big Blue US PVP 201700218



Lighthouse Purple *Fleuroselect Novelty*



Lighthouse Red



Lighthouse Purple and Red



Red Hot Sally II



Flare

SALVIA ●
Salvia splendens
Lighthouse Series

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

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

Flare

Height: 14 in./36 cm
Spread: 8 in./20 cm
Seed supplied as: Raw
Plug crop time: 4 to 5 weeks
Transplant to finish: 4 to 5 weeks

- Sets the standard for taller salvia, producing a profusion of bright red spikes that contrast well with dark green foliage.

Red Hot Sally II



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

Available in North America only.

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



Vista Mixture



Vista White



Vista Red And White



Vista Salmon



Vista Rose



Vista Red



Vista Lavender

Scarlet King (Not pictured)

Height: 11 in./28 cm
Spread: 8 in./20 cm

Seed supplied as: Raw

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

- Excellent bright colour at finish.

Vista™ Series



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

Seed supplied as: Raw

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

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

PERENNIAL SALVIA

New Dimension Series, page 156.

Patio Series, page 155.

Salvatore Blue, page 156.

SAXIFRAGA
See Perennials, page 157.

SCABIOSA
See Perennials, page 157.

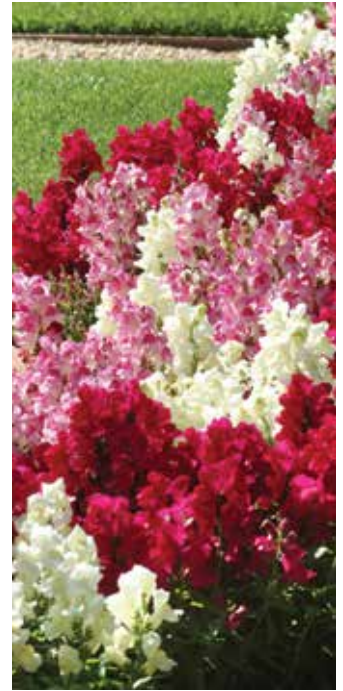
SILENE
See Perennials, page 157.



Vista Purple



Snapshot Burgundy Bicolor



Merlot Mixture



Red Bicolor



Coral Bicolor



White



Yellow

SNAPDRAGON 
Antirrhinum majus

DWARF GARDEN
SNAPDRAGON

Snapshot™ Series F1



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

Seed supplied as: Raw

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

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

Sunset Retains its bright yellow colour in cool environments better than competing varieties.

Merlot Mixture White, Plumblossom, Burgundy.

Also available: **Mixture**



Burgundy Bicolor



Appleblossom



Red



Plumblossom



Rose



Pink



Orange



Purple



Burgundy



Sunset

GARDEN/CUT FLOWER
SNAPDRAGON

Rocket Series F1

Height: 30 to 36 in./76 to 91 cm
Spread: 16 to 18 in./41 to 46 cm

Seed supplied as: Raw

Plug crop time: 5 to 6 weeks
Transplant to finish: 13 to 16 weeks
as a cut or garden flower

- 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 a garden cut flower.
- Suitable for commercial greenhouse or field-grown cut flower production.
- Group 3-4 flowering snapdragon.



Rocket White
All-America Selections
National Winner



Rocket Pink



Rocket Cherry



Rocket Mixture



Rocket Lemon



Rocket Golden
All-America
Selections National
Winner



Rocket Orchid
All-America
Selections National
Winner



Rocket Bronze
All-America
Selections National
Winner



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



Rocket Red
All-America
Selections National
Winner

GARDEN SNAPDRAGON

Solstice™ Series F1

Height: 16 to 20 in./41 to 51 cm
Spread: 10 to 14 in./25 to 36 cm

Seed supplied as: Raw

Plug crop time: 5 to 6 weeks
**Transplant to finish in gallon
containers:**

Northern Hemisphere: October to early January sowing, 10 to 11 weeks; September and mid-January sowing, 5 to 7 weeks
Southern Hemisphere: April to early July sowing, 10 to 11 weeks; March and mid-July sowing, 5 to 7 weeks

- Flowers earlier under shorter days than other intermediate varieties, making it ideal for Winter bedding where climate permits.
- "Knee-high" height - great for landscapes and cut flower gardens.
- Performs best with high light and cool nights (45 to 55°F/7 to 13°C).
- Group 1 Winter-flowering snapdragon.

Red Yellow bee.

White Yellow bee; flowers have a slight pink blush most noticeable in buds.

Yellow May have pink buds and blush pink in lower light.



Solstice Orange Tricolor



Solstice White



Solstice Pink



Solstice Rose



**Solstice
Lavender**



Solstice Yellow



Solstice Purple



Solstice Burgundy

CUT FLOWER SNAPDRAGON

Cool Series, page 196.

Early Potomac Series,
page 194.

Maryland Series, page 192.

Monaco Series, page 193.

Potomac Series, page 194.

Purple Twist, page 196.

Red Delilah, page 196.



Solstice Red



Solstice Mixture



Hot Cakes White Stock



Vintage White Stock



Vintage Burgundy Stock



Peek-A-Boo Spilanthes



Hot Cakes Hot Rose Stock



Vintage Yellow Stock



Vintage Mixture Stock



Hot Cakes Pink Stock



Vintage Copper Stock



Hot Cakes Purple Stock



Vintage Peach Stock



Vintage Lavender Stock



Hot Cakes Mixture Stock



Vintage Rose Stock



Vintage Red Stock

SPILANTHES ●
Acmella oleracea

Peek-A-Boo

Height: 12 to 15 in./30 to 38 cm
Spread: 24 to 30 in./61 to 76 cm

Seed supplied as: Coated

Plug crop time: 4 to 5 weeks

Transplant to finish: 7 to 8 weeks

- 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*.

STIPA
See *ColorGrass*, page 44.

STOCK ●
Matthiola incana

SELECTABLE BEDDING STOCK

Hot Cakes Series

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

Seed supplied as: Raw

Plug crop time: 4 weeks

Transplant to finish: 5 to 7 weeks

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

BEDDING STOCK

Vintage Series

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

Seed supplied as: Raw

Plug crop time: 4 weeks

Transplant to finish: 7 to 8 weeks

- Dwarf 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 vernalisation needed.

CUT FLOWER STOCK
(MATTHIOLA)

Aida Series, page 188.

Column Stock, page 189.

Figaro Series, page 188.

Katz Series, page 191.

Katz Hi Double White, page 190.

Mathilda Series, page 188.

Opera Series, page 188.

SUNFLOWER

See *Potted Plants*, page 175 and *Cut Flowers*, page 197.



Susie Yellow With Eye Thunbergia



Susie White With Eye Thunbergia



Susie Orange With Eye Thunbergia



Susie Mixture Thunbergia

TALINUM ●

Talinum paniculatum

Limón

Height: 28 to 32 in./71 to 81 cm

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

Seed supplied as: Raw

Plug crop time: 5 weeks

Transplant to finish: Foliage 4 to 5 weeks; add 2 weeks to flower

- 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.
- Also works well as a fresh or dried cut flower.

Verde ●

Height: 32 in./81 cm

Spread: 24 in./61 cm

Seed supplied as: Raw

Plug crop time: 5 weeks

Transplant to finish: Foliage 4 to 5 weeks; add 2 weeks to flower

- Dark green-leafed companion to Limón has small flowers that open hot pink and then form orange berries that ripen to dark red.
- Flexible flower spikes make it easy to grow and ship.
- Durable accent plant handles heat and stress well, including both low water and soggy conditions.
- Excellent for mixed containers; also a long-lasting landscape option.

TANACETUM

See **Matricaria**.

THUNBERGIA ●

Thunbergia alata

Susie™ Series

Height: 72 to 96 in./183 to 244 cm

Seed supplied as: Raw

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

- Distinctive flowering vine offers 3 clear and 3 "black-eyed" choices, plus a formula mix.
- Can "pop" into flower in as little as 6 weeks.
- Excellent in hanging baskets or window boxes.
- Good for colour packet and mail order markets.



Limón Talinum



Verde Talinum



Kauai Deep Blue Torenia

TORENIA ●●

Torenia fournieri

Kauai™ Series

Height: 8 in./20 cm

Spread: 8 in./20 cm

Seed supplied as: Pelleted

Plug crop time: 5 to 6 weeks

Transplant to finish: 5 to 7 weeks

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

THYMOPHYLLA ●

Thymophylla tenuiloba

Golden Dawn

Height: 6 in./15 cm

Spread: 12 in./30 cm

Seed supplied as: Raw

Plug crop time: 5 weeks

Transplant to finish: 9 to 12 weeks

- 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.

TRACHELIUM

See **Cut Flowers**, page 198.

VERBASCUM

See **Perennials**, page 157.



Kauai White Torenia



Kauai Lemon Drop Torenia



Kauai Rose Torenia



Kauai Magenta Torenia



Kauai Burgundy Torenia



Kauai Blue & White Torenia



Kauai Deep Blue Torenia



Kauai Mixture Torenia



Golden Dawn Thymophylla

VERBENA ●

Verbena x hybrida

Quartz XP Series

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

Seed supplied as: Raw, Primed

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

- Quartz XP verbenas are more uniform with overall longer garden performance than competing varieties.
- Delivers a tight, 7-day flowering window, earlier and significantly better branching, and reduced internode length.
- Strong seed quality, high germination and great young plant vigour assure superior performance in packs and 4-in./10-cm pots.
- Slightly spreading, mounded plants make brilliant beds and trail over the edges of mixed containers.

New XP Bordeaux Fits the series for habit and timing, and holds its colour better in high light landscapes.

XP Purple Largest florets and slightly more vigour than others in the series.

XP Violet With Eye Violet-blue flowers are similar to Burgundy With Eye, but more blue-toned.

XP Merlot Mixture Strong burgundy, red and purple shades.

XP Waterfall Mixture Segregating mix of white, blue, violet-blue and purple.

Quartz Blue

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

Seed supplied as: Raw, Primed

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

- Approximately 2 weeks later to flower than Quartz XP varieties.

PERENNIAL VERBENA

Buenos Aires, page 157.

Santos Purple, page 157.

VERONICA

See **Perennials**, page 157.



Quartz XP White



XP Silver



XP Pink



XP Red With Eye



XP Bordeaux



XP Burgundy With Eye



XP Violet With Eye



XP Scarlet



XP Purple *Fleuroselect Novelty*



XP Mixture



XP Merlot Mixture



XP Waterfall Mixture



Quartz Blue



Plug & Play Combo Razzle Dazzle, see page 231.



Titan Pure White



Titan (left) surpasses even Pacifica XP in bloom size.



Romance Mixture



Bubble Gum Mixture



Mixture



Clear Mixture



Summer Breeze Mixture

Robust and ready for anything Mother Nature sends!

Titan is up to 2 weeks faster to flower than open-pollinated vincas, with superior branching and big flowers in all the top-selling colours. The most uniform F1 vinca series on the market shows off flowers that are up to 50% larger than O.P. types in cooler temperatures.

VINCA ●
Catharanthus roseus

F1 UPRIGHT VINCA

Titan™ Series F1



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

Seed supplied as: Raw

Plug crop time: 5 weeks

Transplant to finish: 3 to 4 weeks

- Upgrade your vinca for the best germination and the most reliable supply available on the market!
- More stress-tolerant due to hybrid vigour - tolerates heat and drought and can withstand cooler and wetter conditions compared to O.P. types.

• Perfect for landscapes and containers of all types.

• Well-suited to packs, 4-in./10-cm and 6-in./15-cm pots.

Blush Colour does not fade to white in heat and humidity, and flowers retain the large eye.

Bubble Gum Mixture Blush, Icy Pink, Rose.

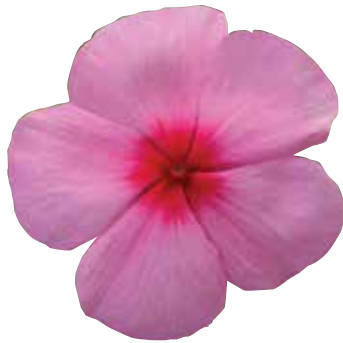
Clear Mixture Punch, Dark Red, Lilac, Burgundy, Pure White.

Romance Mixture Rose Halo, Icy Pink, Pure White.

Summer Breeze Mixture Lilac, Lavender Blue Halo, Pure White.



Pure White



Blush



Polka Dot



Apricot



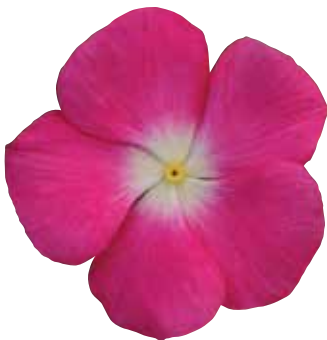
Icy Pink



Punch



Rose



Rose Halo



Dark Red
US PAF



Really Red
US PAF



Burgundy



Lavender Blue Halo



Lilac



Valiant Apricot & Lilac



Pure White US 9,451,747



Apricot US 9,451,749



Orchid US 9,451,750



Lilac US 9,451,752



Mixture



Punch US 9,451,751



Burgundy US 9,451,748

Add Valiant vinca to create bold Plug & Play Combos like this!



Plug & Play Combo Cherry Jam, see page 236.

F1 AERIAL PHYTOPHTHORA-RESISTANT UPRIGHT VINCA

Valiant™ Series F1



Height: 14 to 20 in./36 to 51 cm

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

Seed supplied as: Raw

Plug crop time: 5 weeks

Transplant to finish: 3 to 4 weeks

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

Orchid Slightly less vigorous than others in the series.

Mixture Apricot, Burgundy, Lilac, Punch, Pure White.

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



Tattoo Raspberry & Tattoo Papaya US PVP/AF



Black Cherry US PVP/AF



Papaya US PVP/AF



Raspberry US PVP/AF



Tangerine US PVP/AF

UPRIGHT VINCA

Tattoo™ Series

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

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

Seed supplied as: Raw

Plug crop time: 5 weeks

Transplant to finish: 5 to 6 weeks

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

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

Black Cherry Swirls of cherry and raspberry are lightly airbrushed with purple tones.

Papaya Beautiful, soft "orangesicle"-toned petals are marked with an inky, dark eye.

Raspberry Deep raspberry blooms mature to a soft rose colour, each accented with an inky, dark eye.

Tangerine Dark purple swirls airbrushed onto tangerine-colour blooms with a bright eye.

Make your mark on vinca sales!

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

Try Tattoo vinca for an instant hit in Plug & Play Combos like this!



Plug & Play Combo Ink'd, see page 235.



Pacifica XP Series



XP Lipstick Mixture



XP Merlot Mixture



XP Halo Mixture



XP Mixture



XP Mystic Mixture



XP Bold Mixture



XP White



XP Polka Dot



XP Punch
US PVP 9400248



XP Rose Halo
US PVP 200500218



XP Burgundy



XP Burgundy Halo
All-America Selections National Winner,
Fleuroselect Quality Mark, Fleuroselect
Novelty US PVP 200700272

UPRIGHT VINCA continued

Pacifica XP Series

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

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

Seed supplied as: Raw

Plug crop time: 5 weeks

Transplant to finish: 5 to 6 weeks

- Tight, 5 to 7-day flowering window and uniform, upright habit across all colours.
- XP genetics assure precise, programmable, predictable growing.
- Outstanding in hot, dry and sunny conditions.
- Very floriferous and well-branched plants show off bright flowers with an overlapping, fully rounded form that won't show gaps in hot temperatures.

XP Bold Mixture Cranberry, Really Red, Deep Orchid, Orange.

XP Halo Mixture White, Cherry Red Halo, Magenta Halo, Rose Halo, Burgundy Halo.

XP Lipstick Mixture Punch, Dark Red, Blush, Icy Pink.

XP Merlot Mixture Burgundy, Polka Dot, Deep Orchid, Burgundy Halo.

XP Mystic Mixture Burgundy, White, Lilac.



XP Apricot
US PVP 9800181



XP Icy Pink



XP Blush



XP Magenta Halo
US PVP 200500216



XP Cherry Red Halo



XP Raspberry



XP Lilac



XP Deep Orchid



XP Orange



XP Dark Red
US PVP 200600189



XP Really Red
US PVP 200600190



XP Cranberry



Jams 'N Jellies Blackberry All-America Selections National Winner US PVP 201100526



Jams 'N Jellies Blueberry



Jams 'N Jellies American Pie Mixture

Jams 'N Jellies™ Series

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

Seed supplied as: Raw

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

- Makes high-impact, all-season shows in Summer gardens and large planters.
- Bold colours show well at retail - ideal for patriotic red, white and blue combos.
- Durable and heat tolerant for Summer-long performance.

Blueberry Truer blue with dark eye and less fade than Victory Blue Improved.

American Pie Mixture Blackberry plus red with white eye and pure white (not sold separately).



Mediterranean XP Burgundy Halo



XP Mixture



XP Lipstick Mixture



XP White US PVP 200900053



XP Peach US PVP 2009000880



XP Dark Red US PVP 200900043



XP Strawberry US PVP 200900083



XP Hot Rose US PVP 200900084



XP Burgundy Halo



XP Rose Halo



XP Red US PVP 200900081



Lilac US PVP 9800182

TRAILING VINCA

Mediterranean XP Series

Height: 4 to 6 in./10 to 15 cm
Spread: 20 to 30 in./51 to 76 cm

Seed supplied as: Raw

Plug crop time: 5 weeks

Transplant to finish (basket): Spring 12 to 14 weeks, Summer 8 to 10 weeks

- The only full series of trailing vinca offering a true red.
- Mediterranean XP varieties fill in fast with terrific coverage.
- XP genetics deliver a tight, 5 to 7-day flowering window; luxurious spreading habit; larger flowers and reliable germination.
- Low water needs.

XP Burgundy Halo Vibrant, deep burgundy with bright white eye.

XP Dark Red Same deep red as Pacifica XP Dark Red. Slightly more mounded habit than others in the series.

XP Red Same true red as Pacifica XP Really Red. Slightly more mounded habit than others in the series.

XP Lipstick Mixture XP Strawberry, XP Dark Red, XP Rose, XP White.

Mediterranean Lilac

Height: 4 to 6 in./10 to 15 cm
Spread: 20 to 30 in./51 to 76 cm

Seed supplied as: Raw

Plug crop time: 5 weeks

Transplant to finish (basket): Spring 12 to 14 weeks, Summer 8 to 10 weeks



NEW
White Blotch



NEW
Quicktime Yellow Blue Jump Up



NEW
Blue Purple Jump Up



NEW
Lemon Jump Up



NEW
Yellow Violet Jump Up



NEW
Mickey

VIOLA ●●●
Viola cornuta

New Quicktime™ Series F1

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

Seed supplied as: Primed

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

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

Shorter production time = cost savings

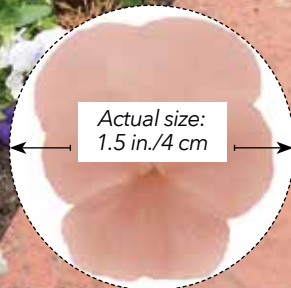
Flowering two weeks faster than comparable series, NEW Quicktime allows you to sow your viola crop two weeks later and still ship on time in Spring. With reduced labour and less heat needed in the greenhouse, the cost savings are quick to add up!



L: Competing Yellow Jump Up, R: NEW Quicktime Yellow Violet Jump Up flowering 2 weeks earlier in northern European trials in 2017.



Sorbet XP Beaconsfield



Send the best-looking violas to retail

Grow, ship, sell and plant the best-looking violas for Spring and Autumn - Sorbet XP genetics deliver a uniform plant habit and the tightest bloom window.

Choose Sorbet viola to add drama in Plug & Play Combos like this!



Fuseables Sunset Boulevard, see page 223.



XP Delft Blue, Lemon Chiffon and XP Beaconsfield

VIOLA continued

Sorbet® XP Series F1



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

Seed supplied as: Raw, Primed

Plug crop time: 4.5 to 5 weeks
Transplant to finish: Early Spring
 6 to 8 weeks, Autumn 4 to 5 weeks

- Sorbet XP needs fewer PGRs, with superior holdability and less shrink.
 - F1 vigour assures greater germination, earliness, and excellent plug and garden performance.
 - Violas are a key pro landscaper item and Sorbet XP excels at every turn: plants cover the soil at flowering, with more blooms on every plant and less stretching; stay compact in both heat and cold; excellent overwintering; wide range of clear colours allows for custom mixes.
 - Well-suited to Spring and Autumn packs and 3.5-in./9-cm pots.
- XP Morpho** Bicolour pattern changes with environment; more blue under cool Spring conditions.
- New XP Neptune** Beautiful cream with blue picotee colour is now available with XP performance.
- XP Pink Wing** Highly sought-after pink cap/white face colour pattern.
- XP Yellow Burgundy Jump Up** Yellow face with burgundy cap.

XP Yellow Pink Jump Up Lavender-pink cap fades with age and heat or PGR stress, similar to other pink cap types.

XP YTT Opens white, then changes to azure blue.

XP Autumn Select Mixture Bold seasonal colours selected for optimal timing and habit uniformity in Autumn.

XP Blackberry Sundae Mixture XP White Jump Up, XP White, XP Purple, XP Purple Face.

XP Blotch Mixture Best matched and most well-balanced colour mix of any blotch mix on the market. Includes existing blotch varieties plus others for future introduction.

XP Blueberry Sundae Mixture XP True Blue, XP Delft Blue, XP White.

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

XP Harvest Mixture XP Orange, XP Purple, XP Yellow.

XP Jump Up Mixture XP Denim Jump Up, XP Lemon Jump Up, XP Orange Jump Up, XP White Jump Up, XP Yellow Jump Up.

XP Lemon Parfait Mixture XP White, XP Yellow, XP Yellow Jump Up.

XP Ocean Breeze Mixture XP Blue Blotch, XP Marina and XP White Blotch.

XP Raspberry Sundae Mixture XP Pink Halo, XP Raspberry and XP White Blotch.

XP Spring Select Mixture Selected for optimal timing and habit uniformity in Spring.

Sorbet mixtures on page 125.



XP Yellow



XP White



XP Yellow



XP Pink Wing



XP Deep Orange



XP Lavender Pink



XP Beaconsfield



XP Purple



XP True Blue



XP Blackberry



XP White Blotch



XP Lemon Ice Blotch



XP Pink Halo



XP Primrose Blotch



XP Yellow Blotch



XP Blue Blotch



XP Red Blotch



XP Yellow Pink Jump Up



XP Orange Jump Up



XP White Jump Up



XP Lemon Jump Up



XP Yellow Jump Up



XP Yellow Burgundy Jump Up



XP YTT



XP Marina



XP Delft Blue
Fluoreslect Gold Medal



NEW XP Neptune



XP Denim Jump Up



XP Morpho
Autumn/warm temperature
bloom colour



XP Morpho
Spring/cool temperature
bloom colour



XP Raspberry



XP Purple Face



XP Raspberry Sundae



XP Blueberry Sundae Mixture



XP Ocean Breeze Mixture



XP Mixture



XP Spring Select Mixture



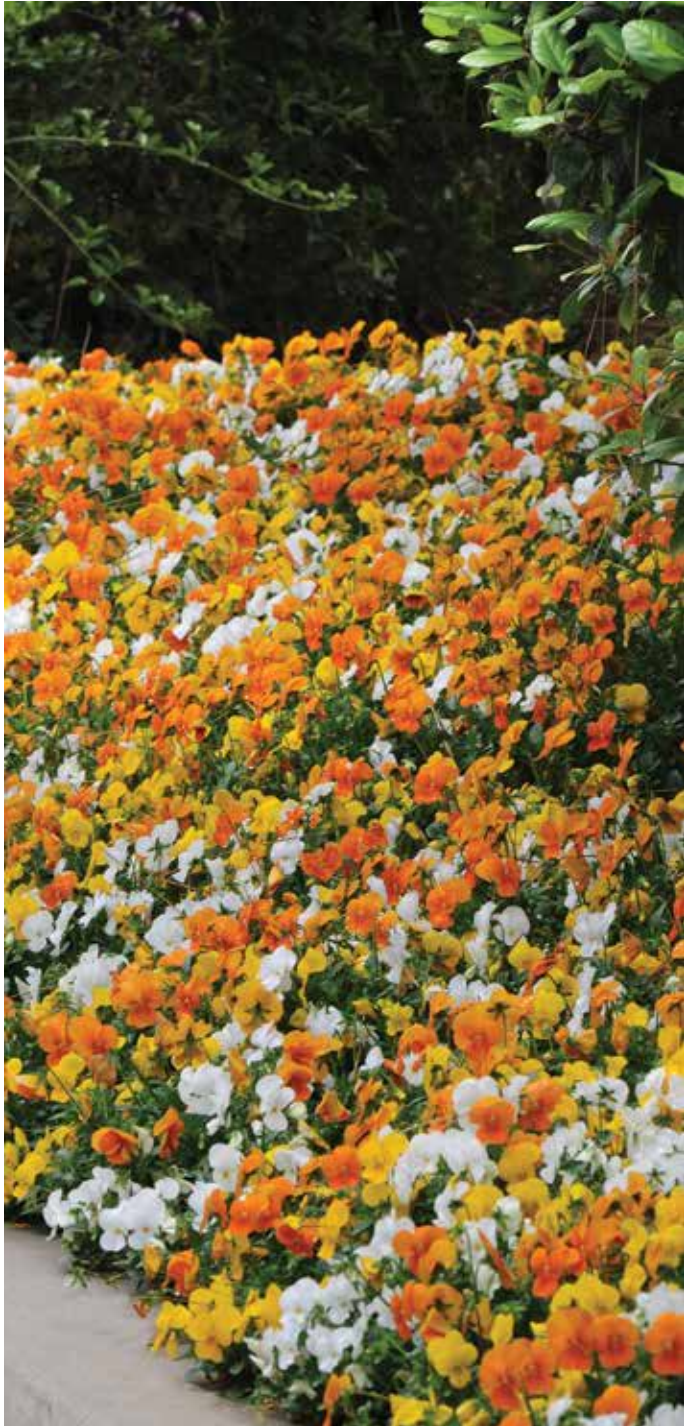
XP Autumn Select Mixture



XP Citrus Mixture



XP Blotch Mixture



Sorbet XP Citrus Mixture



XP Lemon Parfait Mixture



XP Harvest Mixture



XP Jump Up Mixture



XP Blackberry Sundae Mixture



NEW

Sorbet Rose Wing

VIOLA continued

Sorbet® Series F1

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

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

Flower size: 1 to 1.5 in./3 to 4 cm

Seed supplied as: Raw, Primed

Plug crop time: 4.5 to 5 weeks

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

- Plants cover the soil at flowering with more blooms and less stretching, and fewer PGRs are needed.
- Superior holdability and less shrink.
- Use in Autumn and Spring programs – the novelty colours have good retail and home garden appeal.

Fire Colour pattern varies by environment.

Honeybee Yellow/copper-orange bicolor; bright and sunny for Spring production. 30% more vigorous and longer peduncles than other Sorbet varieties.

New Rose Wing Deep pink-to-rose cap with a white face provides a "jump up" look. Slightly darker colour than Pink Wing. Colour will be most intense under cooler conditions.



Lemon Chiffon



Lilac Ice



Icy Blue



Orchid Rose Beacon



Violet Beacon



Carmine Rose



Yellow Blue Jump Up



Honeybee



Antique Shades



Fire



Ruby Gold



Midnight Glow



Black Delight



NEW Rose Wing

New Frizzle Sizzle Mini Series F1

Height: 6 to 8 in./15 to 20 cm
Spread: 6 to 8 in./15 to 20 cm
Flower size: 1.25 to 1.5 in./3 to 4 cm

Seed supplied as: Raw, Primed

Plug crop time: 4.5 to 5 weeks
Transplant to finish: 6 to 7 weeks

- Adds a unique frilly flower form to violas!
- Great for containers or "close-up" landscapes.
- Moderate vigour and a mounding habit.
- Best for cool seasons in early Spring or Autumn; stonger ruffling occurs in cool conditions.
- Spring production is recommended.

New Purple Shades Frilled purple flower with an attractive dark eye.

New Tapestry Flowers contain shades of purple, burgundy and yellow, providing a tapestry of colour.

New Yellow Frilled yellow flower with an attractive dark eye.

New Mixture Yellow, Purple Shades, Tapestry.



NEW
Purple Shades



NEW
Yellow



NEW
Tapestry



NEW
Frizzle Sizzle Mini Mixture



Zahara Starlight Rose

Use Zahara zinnias to add a cheerful note to Plug & Play Combos like this!



Plug & Play Combo Yellow Tambourine, see page 236.



Sunburst Fleuroselect Gold Medal, Fleuroselect Novelty



Mixture



Bonfire Mixture



Raspberry Lemonade Mixture

ZINNIA 
Zinnia marylandica

Zahara® Series



Height: 12 to 18 in./30 to 46 cm

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

Seed supplied as: Raw, Coated

Plug crop time: 3 weeks

Transplant to finish: Spring 8 to 9 weeks, Summer 5 to 6 weeks

- 20% larger flowers than competing varieties means more colour on the bench than any other disease-resistant zinnia...more retail impact...flower power that lasts in the landscape.

- Less care needed at retail for faster turns, less dump and better sell-through.

- Outstanding performer in heat, drought.

Fire Colour intensifies outdoors.

Red One of the largest flowers in the series. Colour varies by environment.

Starlight Rose Colour pattern varies by environment; best colour from high light, good fertilization and cool nights.

Bonfire Mixture Red, Fire, Yellow.

Raspberry Lemonade Mixture Raspberry, Yellow, Starlight Rose.



Zahara White US PVP 201400297



Zahara Starlight Rose All-America Selections National Winner, Fleuroselect Novelty



Zahara Yellow US PVP 201500214



Zahara Sunburst Fleuroselect Gold Medal, Fleuroselect Novelty



Zahara XL Fire



Zahara Fire US PVP 201000090



Zahara Raspberry US PVP 201500215



Zahara XL Fire



Zahara XL Yellow US PVP 201200483



Zahara Red US PVP 201600030



Zahara Cherry US PVP 201600029



Zahara XL Pink US PVP 201200482



Zahara XL White US PVP 201200485

Zahara® XL Series



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

Seed supplied as: Raw, Coated

Plug crop time: 3 weeks
Transplant to finish: Spring 8 to 9 weeks, Summer 5 to 6 weeks

- The ideal choice for pro landscape programs: tremendous disease resistance for reliable, season-long performance...more vigour and larger blooms for quick fill...taller plants assure versatile uses and high visual appeal.
- Available in bright colours for the landscape or impulse buys at retail, including Yellow and Pink.
- Suitable for pot-tight production of 4-in./10-cm pots up to gallon containers.



Double Zahara Bright Orange *Fleuroselect Novelty*

ZINNIA MARYLANDICA *continued*

Double Zahara™ Series



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

Seed supplied as: Raw, Coated

Plug crop time: 3 weeks

Transplant to finish: Spring 8 to 9 weeks, Summer 5 to 6 weeks

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

Bright Orange Intense bright orange colour on highly double flowers. Very floriferous, with slightly smaller flowers than others in the series.

Raspberry Ripple Colour can vary under different environmental conditions. Cooler temperatures accentuate the rose; as flowers age and under more heat, the white comes out more.

Salmon Holds its colour under hot conditions, while others in this colour class start to wash out.

White Outstanding white has larger and more double flowers than the competition. Up to 2% of plants can show pink blushing in the flowers.

Yellow Same colour as Zahara Yellow, but appears more vibrant due to double shape and high petal count.

Brilliant Mixture Yellow, Cherry, Fire.

Mixture Cherry, Salmon Rose, Yellow, Fire, White.



Yellow US PVP 201600028



Salmon US PVPAF



Bright Orange *Fleuroselect Novelty*



White *Fleuroselect Novelty*



Cherry *All-America Selections National Winner, Fleuroselect Novelty* US PVP 201600027



Raspberry Ripple US PVPAF



Fire *All-America Selections National Winner, Fleuroselect Gold Medal, Fleuroselect Novelty* US PVP 201600032



Brilliant Mixture



Mixture



Salmon US PVP/AF



Bright Orange Fleuroselect Novelty



Fire All-America Selections National Winner, Fleuroselect Gold Medal, Fleuroselect Novelty US PVP 201600032



Cherry All-America Selections National Winner, Fleuroselect Novelty US PVP 201600027



NEW

Zesty Purple



NEW

Fuchsia



NEW

Pink



NEW

Purple



NEW

White



NEW

Scarlet



NEW

Mixture

ZINNIA ●

Zinnia elegans (syn. *Zinnia violaceae*)

New Zesty™ Series

Height: 18 to 24 in./46 to 61 cm
Spread: 18 to 24 in./46 to 61 cm
Flower size: 3 to 5 in./8 to 13 cm

Seed supplied as: Coated

Plug crop time: 3 to 4 weeks
Transplant to finish: 6 to 7 weeks

- Extraordinary garden appeal!
- Features fully double flowers and excellent garden vigour.
- Displays huge, vibrant colours all season long.
- Impressive in containers, mixed combinations and borders.
- Pollinators love this plant!

New Fuchsia Vivid rose-purple colour to light up the garden.

New Pink A darker pink shade with more purple/rose tones than the competition.

New Purple Stunning and unique deep purple colour.

New Scarlet The most compact variety in the series.

New White A true white colour.

New Mixture Includes all the colours of the series, plus yellow (not available separately).



State Fair Mixture



Star Starbright Mixture

State Fair Mixture

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

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

Seed supplied as: Raw

Plug crop time: 4 to 5 weeks

Transplant to finish: 6 to 7 weeks

- Tetraploid mix has very large flowers in bright scarlet, gold, lavender, purple, orange, pink, red and yellow.

ZINNIA ●

Zinnia angustifolia

Star Series

Height: 14 in./36 cm

Spread: 8 in./20 cm

Seed supplied as: Raw

Plug crop time: 4 to 5 weeks

Transplant to finish: 5 to 6 weeks

- 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, basket or mixed container quickly.
- Resistant to *Alternaria* and powdery mildew.



Star Orange



Star Gold



Star Orange



Star White



**NEW SALVATORE
BLUE SALVIA**

This premium variety offers the largest spikes and the deepest coloured calyx, spikes and flowers in *Salvia nemorosa* from seed. See page 156.



**NEW ROCKIN'™ PINK
MAGIC DIANTHUS**

This series continues to rock it in borders and garden beds year after year. See page 142.



PERENNIALS

FIRST-RATE FOR RETURN FLOWERING

Creativeness in breeding and production means you can always count on Kieft Seed™ perennials from PanAmerican Seed for **best-in-class genetics** and **exceptional seed quality**. Our stellar seed selection offers strong bench-to-garden performance, with **reliable availability**, so you have the seed you need when you need it.

KieftSeed™



Clemantine Blue



Clemantine Salmon Rose



Clemantine Rose
Fleuroselect Novelty



Clemantine Red



Clemantine White



Clemantine Mixture
Fleuroselect Quality Mark

AQUILEGIA (COLUMBINE)

Aquilegia vulgaris

Clemantine™ Series

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

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

Seed supplied as: Primed

Plug crop time: 7 to 8 weeks
Transplant to finish: 26 to 40 weeks

- 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.

Winky Double Series

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

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

Seed supplied as: Raw

Plug crop time: 7 to 8 weeks
Transplant to finish: 26 to 40 weeks

- Unique double, upward-facing flowers in one-of-a-kind colour patterns offer "something different" for big retail appeal.
- Excellent uniformity during culture and harvest.
- Full and vigorous habit.
- Long shelf life.
- Versatile uses.

Winky Single Series

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

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

Seed supplied as: Raw

Plug crop time: 7 to 8 weeks
Transplant to finish: 26 to 40 weeks

- 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.
- Useful for containers and landscapes.
- Flowers Spring to early Summer, with recommended sowing time June to July.

Early Sky Blue 1 to 2 weeks earlier than the rest of the series.



Winky Double Dark Blue-White



Winky Double Red-White



Winky Double Rose-White



Winky Double Mixture



Winky Single Blue-White



Winky Single White



Winky Single Pink



Winky Single Purple-White



Winky Single Red-White
Fleuroselect Quality Mark, Fleuroselect Novelty



Winky Single Rose-Rose
Fleuroselect Quality Mark



Winky Single Early Sky Blue
Fleuroselect Novelty



Winky Single Mixture



Songbird Bluebird



Songbird Cardinal



Songbird Nightingale



Songbird Robin

AQUILEGIA (COLUMBINE) ●
Aquilegia x hybrida

Songbird Series F1

Height: 11 to 18 in./28 to 46 cm;
varies by variety

Spread: 10 to 14 in./25 to 36 cm

USDA Hardiness Zones: 3a to 9b
(-40 to 25°F/-40 to -4°C minimum
temperatures)

A First-Year-Flowering Perennial.

Seed supplied as: Raw

Plug crop time: 6 to 8 weeks
Transplant to finish: 22 to 28 weeks

- 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/16°C) with no special vernalisation treatment required.
- 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.

Nightingale 18 in./46 cm tall.

Robin 18 in./46 cm tall. Very easy to force into flower.

Also available: **Mixture**

Swan Series F1

Height: 20 to 24 in./51 to 61 cm
Spread: 12 to 14 in./30 to 36 cm

USDA Hardiness Zones: 3a to 9b
(-40 to 25°F/-40 to -4°C minimum
temperatures)

A First-Year-Flowering Perennial.

Seed supplied as: Raw

Plug crop time: 6 to 9 weeks
Transplant to finish: 22 to 28 weeks

- 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/16°C) with no special vernalisation 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** Slightly earlier than other Swan colours, flowering 2 to 3 weeks faster.



Swan Mixture



Swan White



Swan Lavender



Swan Pink And Yellow



Swan Red And White



Swan Blue And White



Swan Yellow
RHS Award of Garden Merit



Swan Violet And White



Swan Burgundy And White
RHS Award of Garden Merit



Bellissima Mixture Bellis



Bellissima Red Bellis *Fleuroselect Novelty*



Bellissima Rose Bicolor Bellis *Fleuroselect Quality Mark, Fleuroselect Novelty*



Bellissima Rose Bellis *Fleuroselect Quality Mark, Fleuroselect Novelty*



Bellissima White Bellis *Fleuroselect Quality Mark, Fleuroselect Novelty*



Ballerina Mixture Armeria



Ballerina Lilac Armeria



Ballerina White Armeria *Fleuroselect Gold Medal, Fleuroselect Novelty*



Spring Charm Arabis



Ballerina Red Armeria *Fleuroselect Gold Medal, Fleuroselect Novelty*

ARABIS 🌈

Arabis blepharophylla

Spring Charm

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

USDA Hardiness Zones: 4a to 7b (-30 to 5°F/-34 to -15°C minimum temperatures)

Seed supplied as: Raw

Plug crop time: 6 to 8 weeks
Transplant to finish: 24 to 36 weeks

- Wintergreen, bushy and compact plant has spikes of strong pink flowers over attractive foliage.

ARMERIA 🌈

Armeria pseudarmeria

Ballerina Series

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

USDA Hardiness Zones: 7a to 9b (0 to 25°F/-18 to -4°C minimum temperatures)

A First-Year-Flowering Perennial.

Seed supplied as: Raw

Plug crop time: 5 to 6 weeks
Transplant to finish: 12 to 15 weeks

- High-quality, programmable perennial fits right into your early-season program.
- Compact and uniform plants produce cushion-shaped, grassy foliage and long, strong stems topped with globe-shaped blooms.

BELLIS 🌈

Bellis perennis

Bellissima™ Series

Height: 6 to 10 in./15 to 25 cm
Spread: 5 to 8 in./13 to 20 cm

USDA Hardiness Zones: 4a to 7b (-30 to 5°F/-34 to -15°C minimum temperatures)

Seed supplied as: Pelleted

Plug crop time: 5 weeks
Transplant to finish: 8 to 14 weeks

- Robust, early-blooming plants are strong landscape performers in cool climates.
- Needs no vernalisation to flower.
- Displays an abundance of large, fully double flowers.

CAMPANULA See page 140.



Early Sunrise All-America Selections
National Winner, Fleuroselect Gold Medal

Strike gold when you use Double the Sun coreopsis in Plug & Play Combos like this!



NEW Plug & Play XXL Combo Golden Era, see page 238.



Sunfire Fleuroselect Quality Mark, Fleuroselect Novelty



SunKiss US PVPAF, EU 46544



The early bird gets the...Sales!

There's early...and then there's Double the Sun! This bright variety is 2 to 3 weeks earlier than our Early Sunrise and other comparable varieties in the early cool season. In Summer, it finishes 1 to 2 weeks earlier. Get this favourite perennial class into the store before any other compact, semi-double yellow Coreopsis.



Double the Sun Fleuroselect Novelty

COREOPSIS ●
Coreopsis grandiflora

Double the Sun

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

USDA Hardiness Zones: 4a to 9b (-30 to 25°F/-34 to -4°C minimum temperatures)

A First-Year-Flowering Perennial.

Seed supplied as: Primed

Plug crop time: 5 to 7 weeks
Transplant to finish: 9 to 12 weeks

- Semi-double, clear golden yellow flowers are the same large, 2.5-in./6-cm size as SunKiss and Early Sunrise, and bigger than Sunfire.
- Great controlled habit with strong flowering.
- Ideal for quart and 1-gallon production in Spring and Summer with 13-hour critical daylength. For 2-gallon and larger containers in Summer, Early Sunrise is the optimal choice.
- Suggested substitution for discontinued Sun Up.

Early Sunrise

Height: 24 in./61 cm
Spread: 22 to 24 in./56 to 61 cm

USDA Hardiness Zones: 4a to 9b (-30 to 25°F/-34 to -4°C minimum temperatures)

A First-Year-Flowering Perennial.

Seed supplied as: Primed

Plug crop time: 5 to 7 weeks
Transplant to finish: 9 to 12 weeks

- Our most vigorous coreopsis.
- Produces golden yellow, semi-double flowers constantly all Summer.
- Can also be marketed as an annual in premium packs.

Sunfire

Height: 24 in./61 cm
Spread: 22 to 24 in./56 to 61 cm

USDA Hardiness Zones: 4a to 9b (-30 to 25°F/-34 to -4°C minimum temperatures)

A First-Year-Flowering Perennial.

Seed supplied as: Primed

Plug crop time: 5 to 7 weeks
Transplant to finish: 8 to 10 weeks

- Well-matched to Rising Sun for habit and timing.
- Naturally compact in a pack or 4-in./10-cm pot, requiring less PGRs, or no PGRs in certain conditions.
- Can also be marketed as an annual in premium packs.

SunKiss

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

USDA Hardiness Zones: 4a to 9b (-30 to 25°F/-34 to -4°C minimum temperatures)

A First-Year-Flowering Perennial.

Seed supplied as: Primed

Plug crop time: 5 to 7 weeks
Transplant to finish: 9 to 12 weeks

- A colour breakthrough in seed *C. grandiflora*: SunKiss is the brightest yellow with large blotch available.
- Larger, deep red blotch and larger flowers than Sunfire.
- Controlled habit - fewer PGRs needed, or no PGRs in certain conditions.
- Fast finish, with timing similar to Rising Sun.
- Well-branched and floriferous.
- Excellent heat-tolerant plant for novice and expert gardeners alike - reliable, easy to grow and the colour blends well with almost everything.



Guardian Mixture Delphinium

What you want, when you want it

It's easy to program your crop to meet shipping dates with Guardian. It offers very uniform blooming, especially under short days. Plus, it's up to 6 weeks faster from transplant to bloom than O.P. types, for more turns in the greenhouse. For programmability and efficiency, Guardian is leading the charge.



Guardian Blue Delphinium



Guardian Lavender Delphinium



Guardian White Delphinium



Rapido Blue Campanula



Rapido White Campanula

CAMPANULA ●●

Campanula carpatica

Rapido Series F1

Height: 5 to 7 in./13 to 18 cm
Spread: 5 to 8 in./13 to 20 cm

USDA Hardiness Zones: 3a to 9b (-40 to 25°F/-40 to -4°C minimum temperatures)

A First-Year-Flowering Perennial.

Seed supplied as: Pelleted

Plug crop time: 7 to 10 weeks

Transplant to finish: 9 to 12 weeks

- Earliest *C. carpatica* - up to 4 weeks earlier than other varieties.
- Delivers good young plant and finished plant vigour, while maintaining compact habit.
- Very short harvest window.
- Showy Spring perennial is ideal for high-volume bench run potted plant programs for 4-in./10-cm pots or gallons.
- Versatile - suited to patio planters and gardens, as well as an indoor novelty potted plant.

DELPHINIUM ●

Delphinium grandiflorum

Diamonds Blue F1

Height: 16 to 24 in./41 to 61 cm
Spread: 10 to 12 in./25 to 30 cm

USDA Hardiness Zones: 4a to 9b (-30 to 25°F/-34 to -4°C minimum temperatures)

A First-Year-Flowering Perennial.

Seed supplied as: Raw

Plug crop time: 6 to 7 weeks

Transplant to finish: 10 to 12 weeks

- The first F1 spurless delphinium from seed, Diamonds Blue eliminates the need for tissue culture inputs and is supplied with up to 25% higher germination than O.P. types for more efficient young plant production.



Diamonds Blue Delphinium



Blue Donna Delphinium

DELPHINIUM ●

Delphinium elatum

Guardian Series F1

Height: 30 to 39 in./76 to 99 cm
Spread: 10 to 12 in./25 to 30 cm

USDA Hardiness Zones: 4a to 7b (-30 to 5°F/-34 to -15°C minimum temperatures)

A First-Year-Flowering Perennial.

Seed supplied as: Raw

Plug crop time: 6 to 7 weeks

Transplant to finish: 16 weeks

- 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.
- Also suitable as a greenhouse cut flower or for garden cut flower production.
- 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 shippability.

DELPHINIUM ●

Delphinium x belladonna

Blue Donna

Height: 32 to 40 in./81 to 102 cm
Spread: 8 to 10 in./20 to 25 cm

USDA Hardiness Zones: 5a to 9b (-20 to 25°F/-29 to -4°C minimum temperatures)

A First-Year-Flowering Perennial.

Seed supplied as: Raw

Plug crop time: 5 to 6 weeks

Transplant to finish: 12 to 16 weeks

- True blue Delphinium has improved uniformity and colour, increased productivity and more stems per sq. ft./sq. m.

Showy for early sales

Be the first to market with the fastest *Digitalis* in an exciting array of colours customers will love! Dalmatian offers uniformity, a great habit and early flowering, making it an ideal premium end cap product in larger containers. Get the series that's easier for shoppers to spot!



Peach



Rose



Crème



White

DIGITALIS ●

Digitalis purpurea

Dalmatian Series F1

Height: 16 to 20 in./41 to 51 cm

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

USDA Hardiness Zones: 5a to 9b (-20 to 25°F/-29 to -4°C minimum temperatures)

A First-Year-Flowering Perennial.

Seed supplied as: Pelleted

Plug crop time: 5 to 6 weeks

Transplant to finish: 10 to 14 weeks

- 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.
- Premium end cap product.



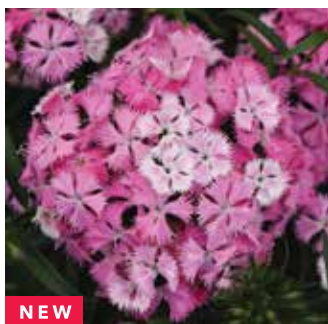
Purple *Fleuroselect Novelty*



Dalmatian Mixture



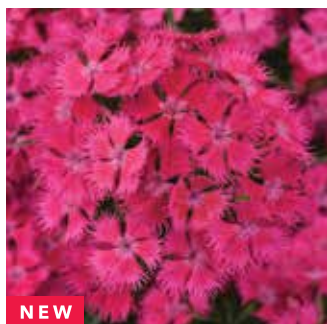
Rockin' Series



NEW
Pink Magic



NEW
Purple



NEW
Rose

DIANTHUS 
Dianthus x barbatus interspecific

Rockin'™ Series F1

Height: 18 to 24 in./46 to 61 cm
Spread: 10 to 12 in./25 to 30 cm

USDA Hardiness Zones: 5a to 8b
(-20 to 15°F/-29 to -9°C minimum temperatures)

A First-Year-Flowering Perennial.

Seed supplied as: Pelleted

Plug crop time: 4 to 6 weeks

Transplant to finish: 8 to 9 weeks

- The Rockin' Series opens the door to premium product sales in perennial quart and gallon programs for mid-Spring and the Autumn decorating season.
- Lacy, slightly scented flowers top full and long-lasting plants - this one delivers *lots of plant for the money*, and that's sure to satisfy shoppers.
- Reliably overwinters to USDA Zone 5 (-20°F/-29°C minimum temperatures) to assure multi-year performance.
- The best colour intensity occurs in the high light and cool temperatures of outdoor production.

New Pink Magic Blooms open white and mature to light pink, then deep pink.

New Purple Lavender-purple colour.

New Rose Deep rose colour.

ANNUAL DIANTHUS

See page 35.

CUT FLOWER DIANTHUS

See page 183.

Rockin' the garden!

This dynamite series will keep perennial borders rocking for years to come, thanks to vivid colour, durable performance and count-on-it overwintering!



Red



**More colours!
More flowers!
More sales!**

Award-winning 'Cheyenne Spirit' gives you the more economical way to bring these high-demand colours to market, compared to traditional tissue-culture material. This incredibly vibrant segregating mix delivers maximum flower power at retail, and continues to shine in landscapes with its superior performance.



'Cheyenne Spirit' All-America Selections National Winner, Fleuroselect Gold Medal US 7,982,110

ECHINACEA ●
Echinacea x hybrida

'Cheyenne Spirit'



Height: 18 to 24 in./46 to 61 cm first year; 22 to 30 in./56 to 76 cm second year

Spread: 10 to 16 in./25 to 41 cm first year; 14 to 20 in./36 to 51 cm second year

USDA Hardiness Zones: 4a to 10b (-30 to 35°F/-34 to 2°C minimum temperatures)

A First-Year-Flowering Perennial.

Seed supplied as: Raw

Plug crop time: 5 to 6 weeks

Transplant to finish: 13 to 17 weeks

- Plants are shorter, better branched and fuller than many tissue culture varieties. This makes it possible to grow without PGRs and offers the ability to ship on tightly spaced racks.
- Flexible scheduling is possible to meet a range of market dates.
- Fits a broad range of sizes from premium packs to gallons. Packs are suitable for in-colour or green plant sales for landscape or prairie-to-go uses.
- Broad and consistent palette includes shades of red, orange, purple, scarlet, cream, yellow and white.
- Long retail shelf life, heat and drought tolerance, and excellent Winter hardiness.



'Cheyenne Spirit'

Create dramatic Plug & Play Combos like this with 'Cheyenne Spirit' echinacea!



Plug & Play XXL Combo Paris in Springtime, see page 239.



PowWow Wild Berry All-America Selections National Winner US 7,982,110; EU 3w5233



Wild Berry



White

Create eye-catching Plug & Play Combos like this with PowWow echinacea!



NEW Plug & Play XXL Combo Pink Pursuit, see page 238.

ECHINACEA ●
Echinacea purpurea

PowWow® Series



Height: 16 to 20 in./41 to 51 cm first year; 22 to 24 in./56 to 61 cm second year

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

USDA Hardiness Zones: 4a to 10b (-30 to 35°F/-34 to 2°C minimum temperatures)

A First-Year-Flowering Perennial.

Seed supplied as: Raw

Plug crop time: 5 to 6 weeks

Transplant to finish: 13 to 17 weeks

- PowWow puts more flowers on every plant than any other seed Echinacea, for a terrific, nonfading colour show!
- Colour-packed pair is well-matched for habit and timing.
- Fuller, shorter and better branched than many tissue culture Echinacea - can be grown without growth regulators and shipped tight on racks.
- Programmable to meet market dates.
- Versatile series works well from gallon containers to premium packs.
- Packs are suitable for landscaper in-colour or green plant sales and for prairie-to-go programs.
- Very drought-tolerant, easy-care plants stay tidy at retail with long holdability.

Create sun-filled Plug & Play Combos like this with Mesa gaillardia!



NEW Plug & Play XXL Combo Sun Sea and Rosé, see page 238.

GAILLARDIA

Gaillardia x grandiflora

Mesa™ Series F1

Height: 14 to 16 in./36 to 41 cm

Spread: 20 to 22 in./51 to 56 cm

USDA Hardiness Zones: 5a to 10b
(-20 to 35°F/-29 to 2°C minimum temperatures)

A First-Year-Flowering Perennial.

Seed supplied as: Clean

Plug crop time: 5 to 6 weeks

Transplant to finish: 11 to 13 weeks

- The first F1 gaillardia from seed puts out lots of fast colour on sturdy plants.
- Strong, early-flowering, well-branched plants fill quart and gallon containers quickly while maintaining the controlled height.
- Compared with other seed gaillardia, Mesa varieties are more uniform in habit and flowering time, for easier scheduling and shipping.
- Very drought tolerant once established, with intense, non-fading colour all season.
- Upright, well-balanced plants perform well in landscapes and mixed containers.

Red Surpasses the competition in several areas: more consistent, redder colour; more uniform vigour/habit; 1 week earlier flowering. Flowers uniformly at 10 hours. Within the series, in Spring production, Red is 14 to 20 days earlier to flower than Bright Bicolor and Yellow. In Summer production, it is 1 week earlier than Bright Bicolor and 14 to 20 days earlier than Yellow.

Fast, non-fading colour that won't quit

The first seed F1 gaillardia fills quart and gallon containers quickly with bold, brilliant colour. These plants hold up under dry conditions, and they put out intense, non-fading colour all season long. Create more colourful landscapes and mixed containers with Mesa.



Bright Bicolor



Peach



Red



Yellow All-America Selections National Winner, Fleuroselect Gold Medal



Mesa Bright Bicolor adds colour and interest to perennial displays.



Sparkle White Gaura All-America Selections National Winner, Fleuroselect Gold Medal, Fleuroselect Novelty

GAURA ●●
Gaura lindheimeri

Sparkle White



Height: 12 to 24 in./30 to 61 cm
Spread: 12 to 20 in./30 to 51 cm

USDA Hardiness Zones: 5b to 9a (-15 to 20°F/-26 to -7°C minimum temperatures)

A First-Year-Flowering Perennial.

Seed supplied as: Raw

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

- Early, naturally compact and long-flowering variety is easy to grow, with no pinching necessary.
- Significant timing improvements over older seed Gaura genetics - 2 to 3 weeks faster. At 12 to 13-week crop time, it compares with vegetative varieties.
- Can be finished in 4 to 6-in./10 to 15-cm pots to save labour and bench time.
- Durable, drought-tolerant variety is compact enough for containers and floriferous enough to use as a bedding plant.



GYPSOPHILA ●●
Gypsophila cerastioides

Pixie Splash

Height: 3 to 5 in./8 to 13 cm
Spread: 4 to 7 in./10 to 18 cm

USDA Hardiness Zones: 4a to 7b (-30 to 5°F/-34 to -15°C minimum temperatures)

Seed supplied as: Primed

Plug crop time: 5 to 6 weeks
Transplant to finish: 26 to 40 weeks

- 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.



Palace Purple Heuchera



Pixie Splash Gypsophila

HEUCHERA ●●
Heuchera micrantha

Palace Purple

Foliage height: 10 in./25 cm
Flower height: 20 in./51 cm
Spread: 14 to 16 in./36 to 41 cm

USDA Hardiness Zones: 4a to 7b (-30 to 5°F/-34 to -15°C minimum temperatures)

Seed supplied as: Pelleted

Plug crop time: 6 to 8 weeks
Transplant to finish: 10 to 12 weeks

- Compact variety has highly attractive foliage of strong bronze-purple, with small white flowers appearing later.



Melting Fire Heuchera Fleuroselect Novelty EU 20557

HEUCHERA ●●
Heuchera x hybrida

Melting Fire

Foliage height: 8 in./20 cm
Flower height: 18 in./46 cm
Spread: 12 to 14 in./30 to 36 cm

USDA Hardiness Zones: 5a to 8b (-20 to 15°F/-29 to -9°C minimum temperatures)

Seed supplied as: Pelleted

Plug crop time: 8 to 10 weeks
Transplant to finish: 12 to 16 weeks

- Uniform, excellent-quality plant is cost-effective and easy to grow as a plug.
- Strong garden performer has good weather tolerance.
- Large plants have strong curled leaves in intense purple-red.
- True tissue culture alternative.





Luna White Hibiscus

HIBISCUS ●

Hibiscus moscheutos

Luna™ Series F1

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

Spread: 24 in./61 cm

USDA Hardiness Zones: 5a to 9b
(-20 to 25°F/-29 to -4°C minimum temperatures)

A First-Year-Flowering Perennial.

Seed supplied as: Raw

Plug crop time: 3 to 4 weeks

Transplant to finish: 10 to 13 weeks

- Produces big, bushy, well-branched plants without pinching.
- Numerous 6 to 8-in./15 to 20-cm flowers.
- Ideal for large containers or in perennial gardens.
- Very responsive to PGRs.
- Higher germination than other seed varieties.

ANNUAL HIBISCUS

See page 47.

IBERIS ●

Iberis sempervirens

Whiteout

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

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

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

Seed supplied as: Raw

Plug crop time: 3 to 4 weeks

Transplant to finish: 26 to 36 weeks; sow May to mid-August, finish March to May

- Delivers more uniform flowering and plant habit than other seed varieties.
- Improved branching and centre fill provides a more attractive finished plant.
- No pinching needed, for less labour and plant loss.



Luna Pink Swirl Hibiscus



Luna Rose Hibiscus



Luna Red Hibiscus



Luna White Hibiscus



Luna Mixture Hibiscus



Whiteout Iberis Fleuroselect Novelty





Ellagance Purple Fleuroselect Gold Medal, Fleuroselect Novelty



Lavance Deep Purple EU 48822



Avignon Early Blue



Ellagance Ice Fleuroselect Quality Mark, Fleuroselect Novelty



Ellagance Pink



Ellagance Snow

Try Ellagance lavandula for a colour explosion in Plug & Play Combos like this!



Plug & Play XXL Combo Very Vesuvius, see page 239.

LAVANDULA ●
Lavandula angustifolia

Avignon Early Blue

Height: 10 to 12 in./25 to 30 cm
Spread: 9 to 11 in./23 to 28 cm

USDA Hardiness Zones: 6a to 8b (-10 to 15°F/-23 to -9°C minimum temperatures)

A First-Year-Flowering Perennial.

Seed supplied as: Raw

Plug crop time: 5 to 6 weeks
Transplant to finish: 10 to 14 weeks (24 to 36 weeks overwintered)

- *Grow early, grow easy, grow beautiful!* This tight, well-branched and strong-stemmed plant shows deeper blue blooms earlier than similar English Lavenders.
- Grown as annual in the early cool season, Avignon Early Blue finishes about 2 weeks earlier than our Ellagance Purple and 1 week before the competition.
- Critical daylength is only 10 hours, like Ellagance Purple, but Avignon Early Blue grows better in cool conditions.

Ellagance Series

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

USDA Hardiness Zones: 5b to 8b (-15 to 15°F/-26 to -9°C minimum temperatures)

A First-Year-Flowering Perennial.

Seed supplied as: Raw

Plug crop time: 5 to 6 weeks
Transplant to finish: 10 to 14 weeks (24 to 36 weeks overwintered)

- Ellagance stands out from other seed and vegetative lavenders for its excellent uniformity, colour range, earliness and spike quality.
- Outstanding branching fills pots quickly and finishes with large, dense flower spikes and very strong stems.
- Spreading and upright plants have rich grey-green foliage.
- Winter hardy, cold tolerant and durable performance; foliage holds up better compared to other lavenders.
- High uniformity means harvest times are short and comparable to any vegetative variety.
- Ships well; long-flowering in perennial beds and patio planters.
- Great as a garden plant and for drying and arranging.
- Large, elegant flowers bloom all Summer and attract butterflies.

Lavance Deep Purple

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

USDA Hardiness Zones: 5a to 8b (-20 to 15°F/-29 to -9°C minimum temperatures)

A First-Year-Flowering Perennial.

Seed supplied as: Raw

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

- Produces the deepest purple-blue Summer colour with no bleaching, on the most controlled *L. angustifolia* available.
- The only well-bulked Summer English Lavender - does not break in shipping.
- Strong branching.
- 1 to 2 weeks earlier than Lavance Purple.
- Best for Summer production, longer days and higher temperatures. Can also be scheduled for traditional overwintering production with potting Weeks 28 to 32.
- Highly scented.
- Attracts bees and butterflies, but does not attract deer and rabbits.

Use Blue Spear lavandula to create unique Plug & Play Combos like this!



NEW Plug & Play XXL Combo Date Knight, see page 239.



Blue Spear

Blue Spear

Height: 11 to 13 in./28 to 33 cm
Spread: 9 to 11 in./23 to 28 cm

USDA Hardiness Zones: 6a to 8b
(-10 to 15°F/-23 to -9°C minimum temperatures)

A First-Year-Flowering Perennial.

Seed supplied as: Raw

Plug crop time: 5 to 6 weeks
Transplant to finish: 11 to 15 weeks
(24 to 36 weeks overwintered)

- *The showiest English Lavender you can grow and sell!* Blue Spear shows off bigger, taller spikes than any other seed lavender, with more upright flower stems that stand closer to each other for huge impact from a distance.
- Very easy to grow, with high uniformity, good habit and earliness (if grown with minimum 12-hour daylength).
- Bred for maximum show, Blue Spear is best used as a perennial in USDA Hardiness Zones 6a to 8b.

All your lavender needs in one place!

Blue Spear and Avignon Early Blue join the Ellagance series and Lavance Deep Purple to boost our regionally focused program and round out the *Lavandula angustifolia* assortment from Kieft Seed. Find detailed information in the regional Lavender Scheduling Tool at panamseed.com/perennials.



Blue Spear



Bandera Purple, Pink, NEW Deep Purple and NEW Deep Rose Lavandula



NEW
Bandera Deep Rose Lavandula
Fleuroselect Novelty



NEW
Bandera Deep Purple Lavandula
Fleuroselect Novelty



Bandera Purple *Fleuroselect Gold Medal, Fleuroselect Novelty*



Bandera Pink

LAVANDULA ●
Lavandula stoechas

Bandera Series

Height: 7 to 9 in./18 to 23 cm
Spread: 10 to 12 in./25 to 30 cm

USDA Hardiness Zones: 7a to 10b
(0 to 35°F/-18 to 2°C minimum temperatures)

A First-Year-Flowering Perennial.

Seed supplied as: Raw

Plug crop time: 6 to 7 weeks
Transplant to finish: 11 to 14 weeks
(28 to 35 weeks overwintered, only in high light/low humidity areas)

- *A true breeding breakthrough!* The first professional-quality seed *L. stoechas* series produces quality comparable to vegetative varieties.
- Compact to medium habit with good branching and uniformity - easily fills 4-in./10-cm pots to gallons.
- One to three weeks earlier to flower than the competition.
- Flowers heavily to almost cover the plant.
- Short harvest window - fits bench run programs.
- Long-flowering and self-cleaning with good secondary flush of flowers.
- Holds dense, mounded habit in the garden without falling open.
- A "Gateway to Gardening" variety for young shoppers - great nursery and grocery store impulse item, gift plant, indoor potted plant.

New Deep Purple Brings a unique, strong, deep purple colour from seed. It complements the series, offering the same strong colours found in vegetative varieties.

New Deep Rose The strongest rose colour from seed on the market! Habit and timing are a great match for the other Bandera varieties.

Purple 1 week later to flower than the rest of the series.

A breeding breakthrough!

As the first professional-quality seed *L. stoechas* on the market, Bandera is an excellent conversion opportunity from vegetative. This compact, bushy, no-pinch plant has great flower power just 11 to 14 weeks from transplant, and its quick to finish compared to vegetative varieties. Plus, no pinch means less production time, making it an all-around perennial winner.



Spanish Eyes Lavandula

LAVANDULA ●
Lavandula multifida

Spanish Eyes

Height: 16 to 25 in./41 to 64 cm
Spread: 20 to 30 in./51 to 76 cm

USDA Hardiness Zones: 7a to 10b
(0 to 35°F/-18 to 2°C minimum temperatures)

Seed supplied as: Raw

Plug crop time: 5 to 6 weeks
Transplant to finish: 10 to 12 weeks

- Fast-growing tender perennial/annual variety flowers all Summer, right up until frost.
- Soft-textured and finely cut fernleaf foliage is topped by branched, 4-in./10-cm spikes that are beautiful in bud and stunning when blooms open.
- Free-flowering in pot and garden.

More uniform for more saleable plants

Send better-looking containers to retail with NEW Madonna! It offers better uniformity in height and habit over its seed counterparts, plus it's an excellent alternative to vegetative leucanthemum that doesn't need vernalisation or have a risk for bacterial infection. The result is picture-perfect containers on the bench and in the store.

LEUCANTHEMUM ●
Leucanthemum x superbum

New Madonna F1

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

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

A First-Year-Flowering Perennial.

Seed supplied as: Raw

Plug crop time: 5 to 6 weeks
Transplant to finish: 10 to 14 weeks

- Madonna offers better uniformity in height and habit over the competition.
- Compact, first-year-flowering F1 shasta is an alternative to vegetative varieties that doesn't require vernalisation and has no risk of bacterial infection.
- Features excellent vigour and leaf quality for optimal finishing in quarts to large containers using multiple plugs.
- It also offers a reduced percentage of "too small" plants compared to standard seed varieties.
- With a larger percentage of saleable plants, Madonna requires less labour for harvesting and grading.
- Up to 15% of petals may have laced-edge petals for a unique look.



NEW



Madonna Leucanthemum *Fleuroselect Gold Medal*

Create striking Plug & Play Combos like this with NEW Madonna leucanthemum!



NEW Plug & Play XXL Combo Feeling Frisky, see page 238.

Create breathtaking Plug & Play Combos like this with Starship lobelia!



NEW Plug & Play XXL Combo Summer Lovin', see page 239.



Starship Scarlet

LOBELIA ●
Lobelia x speciosa

Starship™ Series F1

Height: 20 to 24 in./51 to 61 cm
Spread: 6 to 8 in./15 to 20 cm

USDA Hardiness Zones: 6a to 10b
(-10 to 35°F/-23 to 2°C minimum temperatures)

A First-Year-Flowering Perennial.

Seed supplied as: Pelleted

Plug crop time (288 tray): Scarlet, 7 to 9 weeks; Deep Rose, 8 to 10 weeks

Transplant to finish: 13 to 17 weeks

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

Vulcan Red

Height: 24 to 32 in./61 to 81 cm
Spread: 10 to 14 in./25 to 36 cm

USDA Hardiness Zones: 6a to 10b
(-10 to 35°F/-23 to 2°C minimum temperatures)

A First-Year-Flowering Perennial.

Seed supplied as: Pelleted

Plug crop time: 8 to 10 weeks (288 tray)

Transplant to finish: 14 to 19 weeks

- The first professional-quality alternative to Queen Victoria, Vulcan Red is full, well-branched and strong-stemmed, with a uniform and more controlled habit.
- Best for 2-gallon containers and larger; can also be used for 1-gallon containers.
- Rich red flowers and bronze leaves are great for Autumn mixed combos.

ANNUAL LOBELIA

See page 56.



Starship Deep Rose



Vulcan Red



NEW
Mon Amie Pink Myosotis



NEW
Mon Amie Mixture Myosotis



Mon Amie Blue Myosotis
US FVP 200800070



Champagne Bubbles White Papaver



Champagne Bubbles Yellow Papaver



Champagne Bubbles Orange Papaver

MYOSOTIS (FORGET-ME-NOT) ●●
Myosotis sylvatica

Mon Amie Series

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

USDA Hardiness Zones: 6a to 8b (-10 to 15°F/-23 to -9°C minimum temperatures)

A First-Year-Flowering Perennial.

Seed supplied as: Raw

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

- The Mon Amie series gets a second colour and a mix!
- Send your crop to market 3 to 6 months earlier than biannual myosotis varieties, as no vernalisation is needed for flowering.
- Can be a good choice for annual programs and can be reliably scheduled for Autumn or Spring.
- Media/soil pH requirements are similar to *Primula acaulis*.

New Pink Has the same habit as Mon Amie Blue, but the foliage is a bit lighter green, and first and 100% flowering is 2 to 3 days earlier.

New Mixture Combines Blue, NEW Pink and white (not available separately).



Champagne Bubbles Pink Papaver



Champagne Bubbles Scarlet 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

USDA Hardiness Zones: 4a to 7b (-30 to 5°F/-34 to -15°C minimum temperatures)

A First-Year-Flowering Perennial.

Seed supplied as: Raw

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

- Uniform strains produce large, dense flower spikes on full, bushy plants that flower early and then freely all season.
- Well-suited to container production.
- Give a colourful garden display in well-drained soil and take the heat.

ORNAMENTAL OREGANO Kirigami, page 65.

PAPAVER ●
Papaver nudicaule

Champagne Bubbles Series F1

Height: 15 in./38 cm
Spread: 6 in./15 cm

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

A First-Year-Flowering Perennial.

Seed supplied as: Primed

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

- Hybrid vigour delivers uniform flowers, earliness and long-lasting garden performance compared to O.P. varieties.
- Many large, cup-shaped flowers top bushy, strong-stemmed plants.
- Performs well in hot-day, cool-night conditions.
- Good Winter item in Florida, California and similar climates.

Also available: **Citrus Mixture** Orange, Yellow, White.



Champagne Bubbles Mixture Papaver



Blue Moon Nepeta



Pink Cat Nepeta
Fluoreselect Quality Mark



Carillo Red Penstemon *Fleuroselect Gold Medal, Fleuroselect Novelty*



Goldsturm Rudbeckia



Carillo Purple Penstemon



Electric Blue Penstemon

PENSTEMON ●
Penstemon heterophyllus

Electric Blue

Height: 18 in./46 cm
Spread: 24 in./61 cm

USDA Hardiness Zones: 6a to 8b
(-10 to 15°F/-23 to -9°C minimum temperatures)
A First-Year-Flowering Perennial.

Seed supplied as: Raw
Plug crop time: 4 to 5 weeks
Transplant to finish: 12 to 13 weeks

- Good performer in warm climates, producing multiple stems with branched spikes holding intense blue flowers.

PENSTEMON ●
Penstemon x mexicali

Carillo Series

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

USDA Hardiness Zones: 5a to 7b
(-20 to 5°F/-29 to -15°C minimum temperatures)
A First-Year-Flowering Perennial.

Seed supplied as: Raw
Plug crop time: 6 to 8 weeks
Transplant to finish: 12 to 14 weeks

- Heat and drought-tolerant North American prairie plant.
- Well-branched plants are the most compact of any seed or vegetative varieties.
- Good shelf life; easy care and long flowering in landscapes and containers.
- Flowers in early Summer.

RUDBECKIA ●
Rudbeckia fulgida var. sullivantii

Goldsturm

Height: 24 to 28 in./61 to 71 cm
Spread: 14 to 18 in./36 to 46 cm

USDA Hardiness Zones: 3a to 9b
(-40 to 25°F/-40 to -4°C minimum temperatures)
A First-Year-Flowering Perennial.

Seed supplied as: Primed
Plug crop time: 6 to 8 weeks
Transplant to finish: 20 to 24 weeks

- Superior seed quality compared to other Goldsturm strains.
- Premium, late Summer-flowering perennial is considered “best in class” for landscapes.
- Upright plants produce a large, single, scentless bloom on every stem, over tight, dark green foliage.



Patio Sky Blue Salvia *Fleuroselect Quality Mark, Fleuroselect Novelty*



Patio Deep Blue Salvia *Fleuroselect QualityMark, Fleuroselect Novelty*

SALVIA ●

Salvia patens

Patio Series

Height: 12 to 14 in./30 to 36 cm
Spread: 8 to 12 in./20 to 30 cm

USDA Hardiness Zones: 8a to 10b (10 to 35°F/-12 to 2°C minimum temperatures)

A First-Year-Flowering Perennial.

Seed supplied as: Raw

Plug crop time: 5 to 6 weeks

Transplant to finish: 7 to 11 weeks

- With its excellent branching plant habit, Patio is more compact and richer flowering than similar strains.
- Also works well as an annual.
- Well-suited to Summer containers and borders/beds.
- Series includes the most appealing deep blue colour on your bench.

It's as tough as... STEEL!

A perennial first: Now you can grow high-quality, affordable Perovskia from professional-grade seed. Blue Steel has higher and much more uniform germination than other seed varieties so you'll grow top-notch plugs easily and efficiently. No vernalisation or overwintering is needed, so production time is slashed. And grown beside leading vegetative varieties, you can't see a difference.

PEROVSKIA ●

Perovskia atriplicifolia

Blue Steel

Height: First year, 18 to 24 in./46 to 61 cm; second year and on, 30 to 36 in./76 to 91 cm

Spread: First year, 14 to 22 in./36 to 56 cm; second year and on, 20 to 38 in./51 to 97 cm

USDA Hardiness Zones: 4a to 9b (-30 to 25°F/-34 to -4°C minimum temperatures)

A First-Year-Flowering Perennial.

Seed supplied as: Raw

Plug crop time: 5 to 11 weeks

Transplant to finish: 9 to 15 weeks

- Sturdy, controlled habit in the landscape is comparable to the vegetative leader.
- Combines the best Summer-blooming lavender-blue colour with outstanding late-season garden performance.
- Aromatic, silvery foliage carries clouds of small blue flowers on strong silver stems that do not break or split easily.
- High flower show rate with 1 to 3 plugs per 1-gallon container or 3 to 5 per 2-gallon container.
- It's affordable to use multiple plugs in each pot and always finish with huge retail appeal.
- Pinch for optimal branching.
- Heat/drought tolerant, very hardy.



Blue Steel Perovskia *Fleuroselect Novelty*



Opening the door to seed salvia

With the largest spikes and the deepest blue colour, NEW Salvatore Blue is an excellent alternative to vegetative salvia. Plus, it offers a critical daylength of 10 hours for finishing in early Spring, which previously was only possible with vegetative varieties.

NEW



Salvatore Blue *Fleuroselect Novelty*



NEW

Salvatore Blue



NEW



New Dimension Rose Improved
Fleuroselect Novelty



New Dimension Blue
Fleuroselect Novelty

SALVIA ●

Salvia nemorosa

New Dimension™ Series

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

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

A First-Year-Flowering Perennial.

Seed supplied as: Coated

Plug crop time: 5 to 6 weeks

Transplant to finish: 8 to 11 weeks

- The deepest blue and rose salvia from seed!
- Economical and easy to produce.
- Large, compact and well-branched plants feature strong-coloured flowers that last in the landscape.
- Well-matched series finishes fast with no PGRs needed.
- Fits into annual production schedules.

New Rose Improved It's a win-win! Better germination and larger spikes than the previous Rose, with the same habit to match Blue.

New Salvatore Blue

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

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

Seed supplied as: Coated

Plug crop time: 5 to 6 weeks

Transplant to finish: 8 to 10 weeks

- Premium-look salvia features the largest spikes and the deepest coloured calyx, spikes and flower in *Salvia nemorosa* from seed.
- A good seed alternative to vegetative salvia.
- More vigorous than New Dimension Blue, it is better suited for gallons.
- Features black stems on well-branched plants.
- Ideal for annual and overwintering production.
- With a critical daylength of 10 hours, it is possible to finish for early Spring, which previously was only possible with vegetative varieties.

SAXIFRAGA ●
Saxifraga x arendsii

Rocco Red

Height: 3 to 5 in./8 to 13 cm
Spread: 3 to 5 in./8 to 13 cm

USDA Hardiness Zones: 4a to 7b (-30 to 5°F/-34 to -15°C minimum temperatures)

Seed supplied as: Pelleted

Plug crop time: 9 to 10 weeks
Transplant to finish: 28 to 36 weeks

- More uniform plant size, shorter stems and less colour variability than Highland Red.
- First professional-quality seed *S. x arendsii* on the market – an excellent conversion from vegetative varieties.
- Produces a vigorous, short-stemmed plant that fills the pot.

SCABIOSA ●●
Scabiosa columbaria

Blue Note

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

USDA Hardiness Zones: 5a to 9b (-20 to 25°F/-29 to -4°C minimum temperatures)

A First-Year-Flowering Perennial.

Seed supplied as: Raw

Plug crop time: 6 to 8 weeks
Transplant to finish: 12 to 14 weeks

- Uniform and compact, with no PGRs needed in production.
- Long-flowering, basal-branching plants have dense, dark green foliage and abundant, short-stemmed, clear blue flowers all season.

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

USDA Hardiness Zones: 5a to 9b (-20 to 25°F/-29 to -4°C minimum temperatures)

A First-Year-Flowering Perennial.

Seed supplied as: Raw

Plug crop time: 6 to 8 weeks
Transplant to finish: 13 to 15 weeks

- Good companion to Blue Note.
- Plants maintain a perfect, well-branched shape all season.
- Long-flowering with dense, rich dark green leaves.

SILENE ●
Silene alpestris

Starry Dreams

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

USDA Hardiness Zones: 5a to 8b (-20 to 15°F/-29 to -9°C minimum temperatures)

A First-Year-Flowering Perennial.

Seed supplied as: Pelleted

Plug crop time: 5 to 6 weeks
Transplant to finish: 10 to 12 weeks

- Produces 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.

VERBASCUM ●
Verbascum x hybrida

Southern Charm

Height: 24 to 30 in./61 to 76 cm
Spread: 12 to 18 in./30 to 46 cm

USDA Hardiness Zones: 5a to 8b (-20 to 15°F/-29 to -9°C minimum temperatures)

A First-Year-Flowering Perennial.

Seed supplied as: Pelleted

Plug crop time: 4 to 5 weeks
Transplant to finish: 12 to 13 weeks

- Florets are arranged in pairs, doubling the life of the flower spike.
- Plants bloom in Spring, go dormant under high temperatures and rebloom in Autumn.

VERBENA ●
Verbena bonariensis

Buenos Aires

Height: 40 to 50 in./102 to 127 cm
Spread: 12 to 16 in./30 to 41 cm

USDA Hardiness Zones: 7a to 9b (0 to 25°F/-18 to -4°C minimum temperatures)

A First-Year-Flowering Perennial.

Seed supplied as: Primed

Plug crop time: 6 to 7 weeks
Transplant to finish: 16 to 18 weeks

- Tall, free-flowering Verbena with open plant habit is grown primarily as an annual and used as a pretty accent plant or height divider in the border.

VERBENA ●
Verbena rigida

Santos Purple

Height: 12 in./30 cm
Spread: 48 in./122 cm

USDA Hardiness Zones: tender perennial; 7a to 11 (0°F/-18°C minimum temperatures)

A First-Year-Flowering Perennial.

Seed supplied as: Primed

Plug crop time: 6 to 7 weeks
Transplant to finish: 11 to 13 weeks

- Kieft Seed offers the first high-yield primed seed form of Santos Purple – count on reliable availability, high germination and excellent plug yield for this popular variety.
- One of the best tough and long-lasting landscape perennials available – very heat and drought tolerant, plus exceptional performance in cool climates.
- Compact and upright, well-branched plants bloom late Spring through Summer.
- High powdery mildew resistance.
- Good in baskets and combo planters, too.

ANNUAL VERBENA
See page 113.

VERONICA ●
Veronica spicata

Blue Bouquet

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

USDA Hardiness Zones: 5a to 8b (-20 to 15°F/-29 to -9°C minimum temperatures)

A First-Year-Flowering Perennial.

Seed supplied as: Pelleted

Plug crop time: 5 to 6 weeks
Transplant to finish: 14 to 16 weeks

- Versatile perennial bedding plant makes an excellent choice for landscapes.



Rocco Red Saxifraga



Blue Note Scabiosa



Pink Diamonds Scabiosa
Scabiosa Fleuroselect Quality Mark, Fleuroselect Novelty



Starry Dreams Silene
Fleuroselect Novelty



Santos Purple Verbena



Blue Bouquet Veronica



Southern Charm Verbascum



Buenos Aires Verbena



**NEW COLORBLOOM™
BICOLOR ORANGE
YELLOW GERBERA**

We've got the most uniform potted gerbera series on the market that also offers the best performance for consumers. See page 172.

**NEW CONCERTINA™
YELLOW CELOSIA**

Place these brightly coloured potted plants in a sunny spot on your desk, kitchen counter or patio. See page 160.

**FRESH BITES ORANGE
EDIBLE POTTED PEPPER**

Brings bright colour and a tasty snack to indoor and outdoor spaces. See page 163.

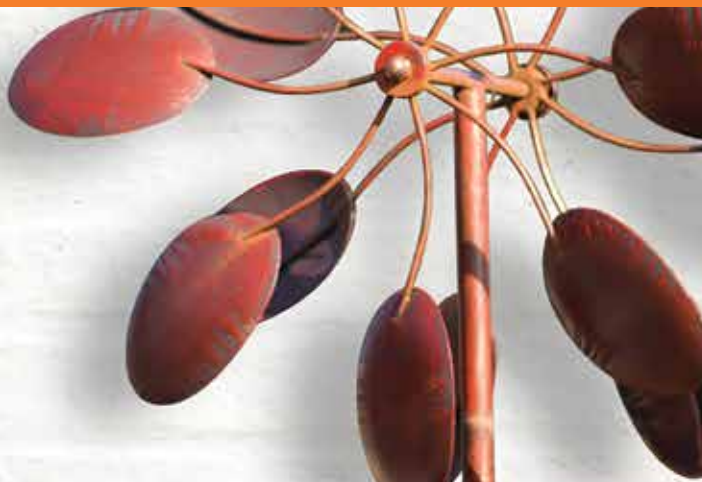




POTTED PLANTS

SPARKING NEW INTEREST IN PLANTS

These “Gateway to Gardening” plant varieties are designed to attract today’s young shopper and soon-to-be gardener. We’ve opened the door for growers and consumers alike to our **outstanding genetics** in a **unique assortment** of gift plants, indoor décor and outdoor patio tabletoppers. Here you’ll find **key potted plant classes**, like gerbera, ornamental peppers and compact sunflowers, in one comprehensive collection.





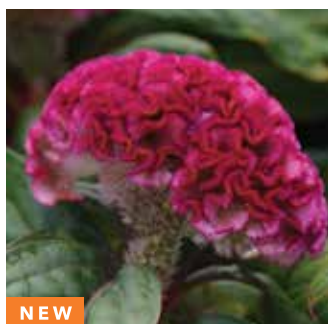
NEW
Concertina Red, Yellow & Purple



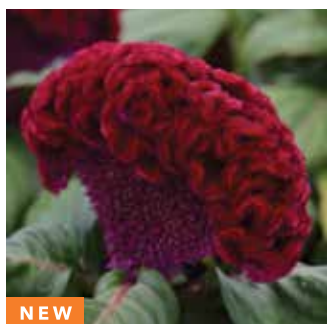
NEW
Concertina Pink



NEW
Concertina Red



NEW
Concertina Pink



NEW
Concertina Red



NEW
Concertina Yellow



NEW
Concertina Purple



NEW
Concertina Red Dark Leaf



NEW
Concertina Mixture

CELOSIA ●●●
Celosia cristata

New Concertina™ Series

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

Seed supplied as: Coated

Plug crop time: 3 to 4 weeks

Transplant to finish: 4 to 6 weeks

- Concertina is best for use as an indoor potted plant and in a sunny spot outdoors on the patio.
- This compact pot *cristata* has the widest colour range on the market.

New Pink Slightly more vigorous than the rest of the series.

New Purple Dark purple.

New Red Rich, velvety red with a traditional green leaf.

New Red Dark Leaf More vigorous compared to the rest of the series.

New Yellow Slightly later to flower compared to the rest of the series. Can be more than one week in long days.

New Mixture Pink and Red Dark Leaf in the mix are slightly more vigorous compared to the rest of the series.

CELOSIA ●
Celosia spicata

Kosmo Series

Height: 8 in./20 cm

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

Seed supplied as: Coated

Plug crop time: 3 to 4 weeks

Transplant to finish: 9 to 11 weeks

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

FOLIAGE BEGONIA

Gryphon, see page 18.

CAMPANULA

Rapido Series, page 140.



Kosmo Yellow



Kosmo Pink
US PVP 200400022



Kosmo Salmon



Kosmo Cherry



Kosmo Purple Red
Fleuroselect Novelty



Kosmo Mixture

Series	No. of Varieties	Recommend pot size
New Concertina Series	5 & 1 mix	4-4.5 in./10-11 cm, Quart
Kosmo Series	5 & 1 mix	4-4.5 in./10-11 cm, Quart



NEW
Campanella Lavender, Pink & Blue

CAMPANULA ●
Campanula medium

New Campanella™ Series F1

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

Spread: 8 to 9 in./20 to 23 cm

Seed supplied as: Pelleted

Plug crop time: 6 to 7 weeks

Transplant to finish: 7 to 10 weeks

- The new Campanella Series features larger blooms and includes a unique lavender colour.
- The more vigorous plants are suitable for larger pots.
- Fills pots better with more flowers.
- Around one week later to flower than other campanula on the market.

Series	No. of Varieties	Recommend pot size
New Campanella	3	4-4.5 in./10-11 cm, Quart



NEW
Lavender



NEW
Pink



NEW
Blue



Adobo



Cosmo



Hot Burrito



Hot Fajita



Hot Joker



Hot Lemon



Hot Tomato



Piñata

**CAPSICUM (INDOOR/
OUTDOOR PEPPER)** ●
Capsicum annuum

Seed supplied as: Raw

- Unique assortment is bred for shorter production times.
- Compact growth means no PGRs are needed.
- Good retail shelf life.
- Excellent indoor/outdoor performance.

Edible Potted Peppers

Variety	Fruit colour	Plug crop time (weeks)	Potting to sale (weeks)	Pot size	Fruit size	Height
SALES PERIOD: FEBRUARY TO SEPTEMBER						
Adobo	Red	3-4	14-16	5-7.5 in./13-19 cm	1 x 4.5 in./3 x 12 cm	12-14 in./30-36 cm
Cosmo	Purple	3-4	16-18	5-7.5 in./13-19 cm	0.75 x 2 in./2 x 5 cm	10-12 in./25-30 cm
Hot Burrito	Red	3-4	14-16	4.5-7.5 in./12-19 cm	0.75 x 4 in./2 x 10 cm	10-12 in./ 25-30 cm
Hot Fajita	Red	3-4	14-16	4.5-8 in./12-20 cm	0.5 x 4 in./1.5 x 10 cm	10-12 in./25-30 cm
Hot Joker	Red	3-4	14-16	4.5-6 in./12-15 cm	0.5 x 4 in./1.5 x 10 cm	12-14 in./30-36 cm
Hot Lemon	Yellow	3-4	15-17	5-8 in./13-20 cm	0.5 x 1 in./1.5 x 3 cm	12-14 in./30-36 cm
Hot Tomato	Red	3-4	15-17	5-8 in./13-20 cm	1.5 x 1.5 in./4 x 4 cm	10-12 in./ 25-30 cm
Piñata	Red	3-4	14-16	4.5-6 in./12-15 cm	0.3 x 2.25 in./1 x 6 cm	8-10 in./20-25 cm



Taquito



Tamale



Yellow Tomato



Fresh Bites Yellow, Fresh Bites Red and Fresh Bites Orange



Fresh Bites Yellow

Edible Potted Peppers

Variety	Fruit colour	Plug crop time (weeks)	Potting to sale (weeks)	Pot size	Fruit size	Height
SALES PERIOD: FEBRUARY TO SEPTEMBER						
Tamale	Red	3-4	14-16	4.5-6 in./12-15 cm	0.75 x 2 in./2 x 5 cm	6-8 in./15-20 cm
Taquito	Red	3-4	15-17	3.5-4.25 in./9-11 cm	0.3 x 1.5 in./1 x 4 cm	4.5-6 in./12-15 cm
Yellow Tomato	Yellow	3-4	15-17	5-8 in./13-20 cm	1.5 x 1.5 in./4 x 4 cm	12-14 in./30-36 cm
SALES PERIOD: MAY TO SEPTEMBER						
Fresh Bites Series	Orange, Red, Yellow	3-4	15-17	5-6.5 in./13-17 cm	1.25 x 2.25 in./3.5 x 6 cm	12-14 in./30-36 cm



Blaze



Chilly Chili All-America Selections National Winner US 7,087,819 and 7,393,995



Acapulco Multicolor



Acapulco Orange



Acapulco Purple



Acapulco Red



Acapulco Yellow



Coba

Ornamental Peppers

Variety	Fruit colour	Plug crop time (weeks)	Potting to sale (weeks)	Pot size	Fruit size	Height
SALES PERIOD: JULY TO OCTOBER						
Acapulco™ Series	Multicolor, Orange, Purple, Red, Yellow	3-4	12-13	4.25 x 5 in./11-13 cm 3 ppp: 6.5-8 in./17-20 cm	0.5 x 1.5 in./1.5 x 4 cm	6 in./15 cm
Blaze	Yellow to red	4-5	7-13 for Autumn finish	Quart	0.75 x 2.25 in./2 x 6 cm	4-8 in./10-20 cm
Compact determinate variety with distinctive, large fruit and excellent branching should be sold at first colour or with a few fruit changing to red - these eye-catching Autumn tones are sure to sell fast! Perfect for quart and Mum Pals programs, plus Autumn mixed containers. NOTE: Fruit has medium heat.						
Chilly Chili F1	Yellow-green to orange to dark red	4-5	7-13 for Autumn finish	4-6 in./10-15 cm	2-2.5 in./5-6 cm	9-10 in./23-25 cm
Child-safe, non-pungent fruit - ideal for indoor and outdoor use in public and residential areas. F1 vigour makes it excellent for containers and gardens. Overall plant size is about 30% larger than Medusa, with similar crop time.						
Coba	Black to red	3-4	12-13	4.25 x 5 in./11-13 cm	0.75 x 1 in./2 x 3 cm	6 in./15 cm



Hot Pops Yellow US 9,307,712



Hot Pops Purple US 9,301,465



Cupala



Harlequin



Joker



Masquerade

Ornamental Peppers						
Variety	Fruit colour	Plug crop time (weeks)	Potting to sale (weeks)	Pot size	Fruit size	Height
SALES PERIOD: JULY TO OCTOBER						
Cupala	Lime to red	3-4	11-12	4-4.5 in./10-12 cm	0.3 x 2.75 in./1 x 7 cm	4.5 in./12 cm
Harlequin	Multicolour	3-4	13-14	4.5-6 in./12-15 cm	0.5 x 0.75 in./1.5 x 2.5 cm	8 in./20 cm
Hot Pops Series	Purple, Yellow	4-5	7-13 for Autumn finish	Quart	0.4/1 cm round	4-5 in./10-13 cm
Pump up your Autumn potted plant sales with an unusual fruit form and multicolours! Small, round peppers show multiple colours simultaneously to make a high-impact display for outdoor and indoor decorating. Compact, heavily branched plants with determinate growth. Perfect for quart and Mum Pals programs, plus Autumn mixed containers. NOTE: Fruit is very hot on Hot Pops Purple, and medium hot on Hot Pops Yellow.						
Joker	Red	3-4	11-12	2.75-4.5 in./7-12 cm	0.3 x 1.5 in./1 x 4 cm	4.5 in./12 cm
Masquerade	Purple and orange to red	4-5	7-12 for Autumn finish	Quart, 4-8 in./10-20 cm	0.3 x 1.5 in./1 x 4 cm	10-12 in./25-30 cm
Tapered fruit in multicolours - appear purple and orange, then mature to red. Good for use in containers and gardens. NOTE: Fruit is hot.						



Wicked



Salsa Purple Yellow



Paracho



Red Missile



Salsa XP Mixture



Salsa XP Yellow



Salsa XP Yellow-Red



Salsa XP Purple



Salsa XP Red



Salsa XP Deep Orange

Ornamental Peppers

Variety	Fruit colour	Plug crop time (weeks)	Potting to sale (weeks)	Pot size	Fruit size	Height
SALES PERIOD: JULY TO OCTOBER						
Wicked	Purple to red	4-5	7-13 for Autumn finish	Quart	1 x 2.75 in./3 x 7 cm	6-8 in./15-20 cm
Compact plants show extra-large fruit that will certainly capture retail attention! Determinate variety should be sold at first colour or with a few fruit changing to red. Perfect for quart and Mum Pals programs, plus Autumn mixed containers. NOTE: Fruit has mild heat.						
Paracho	Black to bronze	3-4	12-13	4-5 in./10-13 cm	0.3 x 1.5 in./1 x 4 cm	4.5 in./12 cm
Red Missile	Cream to orange to bright red	4-5	7-11 for Autumn finish	Quart, 4-8 in./10-20 cm	2 in./5 cm	10-12 in./25-30 cm
Compact plants are good for containers and gardens. NOTE: Fruit is hot.						
New Salsa	Purple Yellow	4-5	12-13	2.25-4.25 in./6-11 cm	0.3 x 1 in./1 x 3 cm	4 in./10 cm
Salsa XP	Deep Orange, Purple, Red, Yellow, Yellow-Red, Mixture	3-4	12-13	2.25-4.25 in./6-11 cm	0.3 x 1 in./1 x 3 cm	4 in./10 cm



Samba Yellow



Samba XL Orange



Santos Yellow



Medusa
US PVP 200000140; US 7,087,819 and 7,393,995



Santos Orange



Plug & Play Combo NEW Firelighter, see page 237.



Zamora Orange



Zamora Red



Zamora Yellow



Santos Flare

Ornamental Peppers						
Variety	Fruit colour	Plug crop time (weeks)	Potting to sale (weeks)	Pot size	Fruit size	Height
SALES PERIOD: JULY TO OCTOBER						
Samba	Dark Orange, Orange, Red, Yellow, Mixture	3-4	14-15	4-5 in./10-13 cm	0.75 x 1.5 in./2.5 x 4 cm	6 in./15 cm
Samba XL	Dark Orange, Orange, Yellow	3-4	14-15	4-5 in./10-13 cm	1 x 2 in./3 x 5 cm	4.5-6 in./12-15 cm
Santos	Flare, Orange, Yellow	3-4	12-13	4-4.5 in./10-12 cm 3 ppp: 6.5-7.5 in./17-19 cm	0.3 x 2 in./1 x 5 cm	6 in./15 cm
Medusa	Ivory to yellow to orange to bright red	4-5	7-13 for Autumn finish	4 in./10 cm	2-2.5 in./5-6 cm	6-8 in./15-20 cm
Child-safe, non-pungent fruit is colourful and twisted. Naturally dwarf, well-branched plants have dark foliage. A single plant can produce 40 to 50 fruits, displaying the entire colour range at once. Holds fruit well, allowing for great shelf life and long sales period.						
Zamora	Orange, Red, Yellow	3-4	12-13	4-4.5 in./10-12 cm	0.5 x 1.5 in./1.5 x 4 cm	6 in./15 cm



Princess White



Princess Deep Blue



Royal Dane Deep Blue



Royal Dane White

EXACUM ●

Exacum affine

Plug crop time: 5 to 6 weeks

Transplant to finish: Varies by variety

Seed supplied as: Pelleted

- Low cost and fast production.
- Perfect crop for Summer production.
- Long-lasting flowers have a sweet fragrance.
- Extremely good shelf life.
- Sales period: March to October.

Variety	Colour	Potting to sale (weeks)	Pot size	Height
Princess Series	Deep Blue, White	10-12	4-5 in./ 10-13 cm	4.5-6 in./ 12-15 cm
Royal Dane Series	Deep Blue, Deep Rose, White	10-12	2.25-5 in./ 6-13 cm	4.5-6 in./ 12-15 cm



Scarlet Red with Light Eye



Bright Red



NEW Bright Rose with Dark Eye



Deep Rose with Light Eye



Rose with Light Eye



NEW Bright Orange with Light Eye



Orange with Light Eye



Orange with Dark Eye



Salmon Rose with Light Eye



Watermelon



Yellow with Dark Eye



White with Light Eye

GERBERA 
Gerbera jamesonii

Mega Revolution™ Series F1

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

- Produces manageable, larger-sized plants with very large flowers - beats competing series for colour range, bloom size and seed quality.
 - Ideal for larger container programs.
 - Supplied with industry-leading seed quality.
- New Bright Orange with Light Eye** One of the fastest varieties in the series and one with the largest flowers.

Bright Red Contains a mix of dark and light eyes.

New Bright Rose with Dark Eye Smaller flowers and slightly taller compared to the series average.

Deep Rose with Light Eye Superior dark colour is great for mixes and combo pots. Colour holds very well under high light levels.

Salmon Rose with Light Eye High percentage of double-petalled blooms.

Scarlet Red with Light Eye Largest flowers on the market; best red variety in the series.

White with Light Eye Cleaner white colour than the competition.

Yellow with Dark Eye Best dark-eyed yellow gerbera on the market.

Select Mixture Uniform mix of bold, bright colours.



Select Mixture



NEW
Bright Orange with Light Eye



NEW

Revolution Deep Pink with Light Eye



Bicolor Rose White

Hit your schedule every time

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

GERBERA continued

Revolution™ Series F1

Height: 4 to 8 in./10 to 20 cm
Spread: 10 to 12 in./25 to 30 cm
Flower size: 3 to 4 in./8 to 10 cm

Seed supplied as: Coated

Plug crop time: 6 to 7 weeks
Transplant to finish: 8 to 10 weeks

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

Bicolor Red Lemon Unique bicolor in gerberas.

New Deep Pink with Light Eye Replaces Pink with Light Eye with a deeper pink colour.

Salmon Shades with Light Eye Features short stems, making it a good mix component, with shades from deep salmon to pink.

Bicolor Mixture Available in North America only. Includes all four bicolor varieties.

Select Mixture Uniform mix of bold, bright colours.

PROGRAM STANDOUTS

Make sure you include these sure-fire sellers in your Revolution Gerbera program!

Bicolor Red Lemon

Bicolor Red White

Bicolor Rose White

Bicolor Yellow Orange

Bright Rose with Light Eye

Golden Yellow with Light Eye

Orange with Light Eye

Red with Light Eye

Red with Dark Eye

White with Light Eye

Select Mixture



Bicolor Mixture



Select Mixture



Bicolor Yellow Orange



Red with Light Eye



NEW Deep Pink with Light Eye



Orange with Light Eye



Pastel Orange



Bright Rose with Light Eye



Salmon Shades with Light Eye



Red with Dark Eye



Golden Yellow with Dark Eye



Yellow with Light Eye



Bicolor Red Lemon



White with Light Eye



Bicolor Red White



Bicolor Rose White



Bicolor Yellow Orange



NEW

ColorBloom Deep Rose with Light Eye

Series	No. of Varieties	Recommend pot size
Mega Revolution	12 & 1 mix	6 in./15 cm
Revolution	14 & 1 mix	5 in./13 cm
New ColorBloom	5 & 1 mix	Quart/11 cm



Mega Revolution Watermelon, Revolution Bicolor Yellow Orange and NEW ColorBloom Cherry with Light Eye Gerbera

Stays tidy for smaller pots

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

GERBERA continued

ColorBloom™ Series F1

Height: 4 to 6 in./10 to 15 cm
Spread: 6 to 8 in./15 to 20 cm
Flower size: 3 to 4 in./8 to 10 cm

Seed supplied as: Coated

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

- The ColorBloom Series is specially designed for the quart/11 cm retail market.
- ColorBloom is the most uniform series on the market, with the best performance for consumers.
- The series is around 10 days faster to flower than competitors.
- More uniform with a shorter flower window.
- It has a higher amount of usable plants due to better seed quality.
- Offers a compact plant habit that requires less to no PGRs.
- Series holds its colour better and won't fade in high light.

New Bicolor Orange Yellow
 Around one week later to flower compared to other varieties in the series.

New Cherry with Light Eye Can show more red under higher light conditions.

New Yellow with Dark Eye Slightly smaller flowers than the rest of the series.

New Mixture Contains all 5 varieties.



NEW
Mixture



NEW Bicolor Orange Yellow



NEW Cherry with Light Eye



NEW Deep Rose with Light Eye



NEW Red with Light Eye



NEW Yellow with Dark Eye



Yellow with Dark Eye, Bicolor Orange Yellow & Red Light Eye



Sapphire Blue Lisianthus



Sapphire White Lisianthus



Sapphire Blue Lisianthus



Sapphire Blue Chip Lisianthus



Sapphire Pink Rim Lisianthus



Splash Select White Hypoestes



Splash Select Red Hypoestes



Splash Select Pink Hypoestes



Splash Select Rose Hypoestes

HYPOESTES 
Hypoestes phyllostachya

Splash Select™ Series

Height: 4 to 6 in./10 to 15 cm
Spread: 12 to 14 in./30 to 36 cm

Seed supplied as: Raw

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

- The grower's choice for mass market pot production, with excellent shipping tolerance and shelf life.
- Crop time can be reduced by planting multiple-sown young plants in each pot.
- Heat tolerant and shade tolerant.
- Can be used as an indoor plant or offered with other bedding annuals.
- The garden height for this plant is 10 to 18 in./25 to 46 cm; the height listed is potted height.

LISIANTHUS 
Eustoma grandiflorum

Sapphire Series F1

Height: 5 to 6 in./13 to 15 cm
Spread: 4 to 6 in./10 to 15 cm

Seed supplied as: Pelleted

Plug crop time: 8 to 10 weeks
Transplant to finish: 12 to 16 weeks

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

ORNAMENTAL MINT

Mini Mint, see page 65.

Series	No. of Varieties	Recommend pot size
Splash Select Hypoestes	4	Cell Pack, 3 ppp: 4-4.5 in./10-12 cm, Quart
Sapphire Lisianthus	4	4-4.5 in./10-12 cm, Quart



Choco Sun



Miss Sunshine

SUNFLOWER ●
Helianthus annuus

Choco Sun

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

Seed supplied as: Treated

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

- 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 saleable plants.
- Ideal for containers, window boxes and gardens.

Miss Sunshine F1

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

Seed supplied as: Treated

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

- Dwarf, golden yellow sunflower is easy and economical to produce, needing fewer PGRs and flowering at a shorter height under short days.
- Pollen-free plants have 3 to 4-in./8 to 10-cm blooms with a fast flush of secondary flowers.
- Perfect for mixed and mono planters.

More colour = repeat sales!

Meet the pot sunflower they'll want again and again. SunBuzz keeps pumping out more blooms, thanks to the big show of secondary flowers. On the production end, SunBuzz lets you grow and sell a compact plant with fewer PGRs, so you send a good-looking and cost-effective product off to market.



SunBuzz

SunBuzz F1 ●●

Height: 12 to 20 in./30 to 51 cm
Spread: 8 to 12 in./20 to 30 cm

Seed supplied as: Treated

Plug crop time: 2 to 3 weeks
Transplant to finish: 6 to 8 weeks

- Clear, yellow-filled flowers make SunBuzz a real standout!
- Compact, smaller-leaved plants are more manageable and programmable on the bench, and more appealing in the store.
- Delivers better seed uniformity and needs fewer PGRs than similar varieties.
- Fast flowering and a compact habit.



SunBuzz

Series	Recommend pot size
Choco Sun	5-6 in./13-15 cm, Gallon
Miss Sunshine F1	4.5-5 in./12-13 cm/Quart/11 cm
SunBuzz F1	5-6 in./13-15 cm, Gallon

**NEW TOSCA BLUE SEA
MATTHIOLA**

Ideal for Summer growing,
this new series makes a
beautiful bouquet. See
page 190.

**NEW KATZ HI DOUBLE
WHITE MATTHIOLA**

Use this bright white
beauty for 90% more
usable double-flowered
stems in the top selling
colour. See page 190.





CUT FLOWERS

CONSISTENT QUALITY IN CUTS

For more than 50 years, we've earned our reputation for **innovative breeding** and the ability to **consistently supply professional seed quality** for commercial cut flower growers around the world. We partner with you to **lower production costs, increase yields and successfully grow hundreds of cut flower varieties**. Plus, these flowers **ship and store exceptionally well** to help florists create better arrangements for ultimate consumer satisfaction.



NEW

Mona Lisa Deep Blue Improved Anemone



Mona Lisa Pink Anemone



Mona Lisa Mixture Anemone



Mona Lisa Scarlet Eye Anemone



Mona Lisa Wine White Bicolor Anemone



Mona Lisa White Anemone



Mona Lisa Bicolor Red Anemone



Grenade Orange Carthamus



Silky Gold Asclepias
Fluoreselect Quality Mark



Silky Deep Red Asclepias



Silky Mixture Asclepias

ANEMONE ●

Anemone coronaria

Mona Lisa® Series F1

Height: 18 in./46 cm

Seed supplied as: Raw

Planting density: 2 to 4 plants/ft.²
(22 to 44 plants/m²)

Best For: Greenhouse, high tunnel

Plug crop time: 8 weeks

Transplant to finish: 12 weeks

- A masterpiece among anemones: Mona Lisa puts out up to 18 flowers per plant...flowers under lower Winter light levels... doesn't need staking, netting or disbudding.

- 4 to 4.5-in./10 to 12-cm blooms top sturdy 18-in./45-cm stems that are ideal for cutting and design work.

- Well-suited for young plant production from March to April sowing.

- Low temperatures (46 to 54°F/ 8 to 12°C) promote optimum stem length for cut flower production.

New Deep Blue Improved Offers improved germination for more reliable supply. More uniform hybrid than the original for improved efficiencies in cut flower production.

ASCLEPIAS ●

Asclepias curassavica

Silky Series

Height: 24 to 28 in./61 to 71 cm

Seed supplied as: Raw

Planting density: 3 to 4 plants/ft.²
(32 to 40 plants/m²)

Best for: Greenhouse, high tunnel, field

Plug crop time: 4 to 5 weeks

Transplant to finish: 11 to 12 weeks

- High-quality series is bred for greenhouse and outdoor Summer production and prefers a warm, rather dry location.

CARTHAMUS ●

Carthamus tinctorius

Grenade Orange

Height: 32 to 40 in./81 to 102 cm

Seed supplied as: Coated

Direct sow to finish: 10 to 16 weeks

- Features round, thornless leaves and round flower buds atop stems of uniform length.

- Best grown as a direct-sown crop.
- Useful for indoor and outdoor professional cut flower production programs for fresh and dried use; can also be used green when harvested young.



NEW
Campana Deep Blue Improved Campanula

CAMPANULA ●
Campanula medium

Campana Series F1

Height: 30 to 34 in./76 to 86 cm

Seed supplied as: Pelleted

Planting density: 6 to 8 plants/ft.²
(64 to 80 plants/m²)

Best for: Greenhouse

Plug crop time: 7 to 8 weeks

Transplant to finish: 10 to 14 weeks

- Top-quality professional cut flower series is a low-energy crop, suitable for Summer or Winter production. See the Product Information Guide at panamseed.com for daylength requirements.

- Well-matched across the series for timing and habit, Campana delivers excellent uniformity.

- 100% top-flowering with strong stems and good foliage.

New Deep Blue Improved Large-flowered, deep blue campanula fits the series for timing, and is the best-quality variety in the series, plus it features good vase life.

Focal

These are the largest blooms in the arrangement...the varieties that make customers go "aah!" Be sure to check out our centre-of-attention Jua sunflowers and lisianthus.

Filler

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

Line

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

Volume

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



Campana Pink Campanula



Campana White Campanula



Campana Lilac Campanula

FLORAL SELECTION GUIDE FOR BOUQUETS

Class/Variety	Page	Focal	Filler	Line	Volume
ANEMONE					
Mona Lisa Series	178	X			
ASCLEPIAS					
Silky Series	178		X		
CAMPANULA					
Campana Series	179		X		X
CARTHAMUS					
Grenade Orange	178		X		X
CELOSIA					
Bombay Series	180	X			
Celway Series	183		X		
Neo Series	181	X			
Spring Green	180	X			
Sunday Series	182		X	X	X
DELPHINIUM					
Blue Donna	140			X	
Guardian Series	140			X	
DIANTHUS					
Amazon Series	183		X		X
Sweet Series	184		X		X
GOMPHRENA					
Fireworks	46		X		
QIS Series	46		X		
LIMONIUM					
QIS Series	185		X		
LISIANTHUS, DOUBLE					
ABC Series	186	X			
Flare Series	185	X			X
MATRICARIA					
Vegmo Series	188		X		X
MATTHIOLA					
Aida Series	188			X	X
Column Stock	189			X	X
Figaro Series	188			X	X
Katz Series	191			X	X
New Katz Hi Double White	190			X	X
Mathilda Series	188			X	X
Opera Series	188			X	X
New Tosca Series	190			X	X
SNAPDRAGON					
Cool Series	196			X	
Early Potomac Series	194			X	
Maryland Series	192			X	
Monaco Series	193			X	
Potomac Series	194			X	
Purple Twist	196			X	
Red Delilah	196			X	
SUNFLOWER					
Jua Series	197	X			
TRACHELIUM					
Lake Forest Purple	198		X		
Lake Michigan Series	198		X		



Bombay Bronze



Bombay Pink



Bombay Cherry



Bombay Green



Bombay Fidor



Bombay Figo



Bombay Fire



Bombay Purple *Fleuroselect Gold Medal*



Bombay Fiora



Bombay Firosa



Bombay Fivio



Spring Green

CELOSIA

Celosia cristata (Cockscomb)

Bombay Series

Height: 28 to 40 in./71 to 102 cm

Seed supplied as: Coated

Planting density: 6 to 8 plants/ft.² (64 to 80 plants/m²)

Best for: Greenhouse

Plug crop time: 2 to 3 weeks

Transplant to finish: 10 to 14 weeks

- Full colour assortment with programmable production - good for economical, high-density programs.
- High yields, strong stems and few off-shoot flowers.
- Flowers hold colour well and are well-suited to dried use.

Spring Green

Height: 40 to 48 in./102 to 122 cm

Seed supplied as: Coated

Planting density: 6 to 8 plants/ft.² (64 to 80 plants/m²)

Best for: Greenhouse

Plug crop time: 2 to 3 weeks

Transplant to finish: 12 to 16 weeks

- High percentage of saleable stems.
- Easy to program for year-round sales.
- Uniform plant habit with strong, round stems for easy harvesting and good shippability.

Grow your margin, grow your sales

Neo lets you grow over a longer period through the year... harvest more usable stems from every ft²/m²...ship out better-quality *C. cristata*...and give florists a product that's easier to arrange and easier to sell.



Gold EU 46508



Orange EU 44055



Pink EU 43694



Red EU 46509



Rose EU 43693

Neo™ Series ●

Height: 28 to 40 in./71 to 102 cm

Seed supplied as: Coated

Planting density: 6 to 8 plants/ft² (65 to 86 plants/m²)

Best for: Greenhouse

Plug crop time: 2 to 3 weeks

Transplant to finish: 8 to 12 weeks

- Less long day sensitive, making it easier to produce over a longer period during the year for most growers.
- Features new, unique colours and a much better leaf habit.
- Produces larger flowers with a thicker comb than Bombay.
- Easier to work with for bouquets or flower arrangements due to smaller leaves.

Gold Deepest yellow colour available on the market. NOTE: More sensitive to Fusarium wilt compared to the rest of the series.

Orange Unique colour to the market will stir up interest for growers, retailers and florists.

Pink The fastest to flower of the series and the only dark-stemmed variety, with a slightly smaller bloom.

Red The slowest to flower and also a bit shorter compared to the rest of the series.

Rose The tallest of the series, with a more rose colour, bigger flower heads and lighter green stems than Pink. Also slower to flower than Pink.



Neo Orange EU 44055



NEW

Sunday Mixture Improved



Sunday Bright Pink



Sunday Orange



Celway Purple



Celway White



Celway Salmon



Sunday Dark Pink



Celway Orange

CELOSIA ●
Celosia plumosa

Sunday™ Series

Height: 28 to 40 in./71 to 102 cm

Seed supplied as: Coated

Planting density: 6 to 8 plants/ft.²
(64 to 80 plants/m²)

Best for: Greenhouse, high tunnel

Plug crop time: 2 to 3 weeks

Transplant to finish: 12 to 16 weeks

- First professional cut version of the popular plume-shaped celosia.
- Full plumes and long, strong stems enhance high-end retail mixed bouquets.
- Short programmable production time and high yield - ideal for high-density programs.
- Excellent shippability and vase life.

Bright Pink Slightly shorter plumes compared to other Sunday varieties.

Cherry Bright cherry colour. Slightly larger leaves than other Sunday varieties.

Purple Unique colour.

New Mixture Improved Dark Pink, Orange, Bright Pink, Cherry, Purple, Gold.

SUNDAY is a trademark of Celex B.V.



Sunday Red



Sunday Purple



Sunday Cherry



Celway Terracotta



Sunday Yellow



Sunday Wine Red



Sunday Gold



Celway Lemon



Celway Red Celosia

CELOSIA ●*Celosia spicata***Celway™ Series****Height:** 40 to 48 in./102 to 122 cm**Seed supplied as:** Coated**Planting density:** 6 to 8 plants/ft.²
(64 to 80 plants/m²)**Best for:** Greenhouse, high tunnel; Purple, Terracotta and White are also suitable for field production**Plug crop time:** 2 to 3 weeks**Transplant to finish:** 10 to 14 weeks

- One central spiky plume is surrounded by several smaller spikes for a well-filled look.
- Short, programmable production time.
- Suitable for high-density production.
- Strong stems with small top leaves allow for good sleeving and shippability.

Also available: **Mixture**

CELWAY is a trademark of Celex B.V.



Neon Cherry



Neon Duo

DIANTHUS ●*Dianthus barbatus interspecific***Amazon™ Series F1****Height:** 18 to 36 in./46 to 91 cm**Seed supplied as:** Pelleted**Planting density:** 3 to 4 plants/ft.² (30 to 40 plants/m²) for Non-Pinched crop; 1.5 plants/ft.² (15 plants/m²) for Pinched crop**Best for:** Greenhouse, high tunnel, field**Plug crop time:** 4 to 5 weeks**Transplant to finish:** Late Spring/Summer greenhouse/field, 11 to 14 weeks; Late Summer/Winter greenhouse, 12 to 18 weeks; Field, 18 to 23 weeks

- High yields of saleable stems.
- No vernalisation is needed for flowering.
- As a Winter greenhouse crop, height is up to 36 in./91 cm, with tallest growth from early Autumn-transplanted plants.

Neon Duo 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.

Amazon Neon Cherry

Dependable performance... by the bunch!

Versatile and programmable, Amazon can be produced year-round and is the best dianthus you can grow for Summer production. Whether you're looking for a high-appeal filler for bouquets or an exceptional product for monoculture bunches, Amazon is the one you want!

Neon Purple
RHS Award of Garden MeritRose Magic
RHS Award of Garden Merit



Sweet Purple



White



Pink Magic



Pink



Deep Pink Maxine



Coral
RHS Award of Garden Merit



Scarlet
RHS Award of Garden Merit



Purple White Bicolor



Magenta Bicolor



Red



Purple



Mixture



Black Cherry

DIANTHUS ●
Dianthus barbatus

Sweet™ Series F1

Height: 18 to 36 in./46 to 91 cm

Seed supplied as: Pelleted

Planting density: 4 to 6 plants/ft.² (42 to 64 plants/m²)

Best for: Greenhouse, high tunnel; also suitable for field

Plug crop time: 4 to 5 weeks

Transplant to finish: Late Spring/Summer greenhouse/field, 8 to 9 weeks; Late Summer/Winter greenhouse, 9 to 13 weeks; Field, 15 to 18 weeks

- Top-notch filler series features large, fragrant and long-lasting blooms on strong, straight stems.

- Produces high yields of saleable stems.

- Taller growth comes from early, Autumn-transplanted, greenhouse-grown plants.

Deep Pink Maxine More intense colour than Sweet Pink. A top-selling colour in most markets.

White Pure white with no grey anthers.



QIS Mixture Limonium



QIS White Limonium



QIS Yellow Limonium



QIS Apricot Limonium



QIS Rose Limonium



QIS Pastel Limonium



QIS Lavender Limonium



QIS Pale Blue Limonium



QIS Dark Blue Limonium



QIS Purple Limonium

SEASONALITY NUMBER GUIDE FOR FLARE SERIES					
Speed Guide	Flare Varieties	Optimum Flowering Period			
		Winter (Cool Temp.)	Spring (Warm Temp.)	Summer (Hot Temp.)	Autumn (Warm Temp.)
Speed 2 Mid Flowering	Deep Blue	X	X	X	X - For Mid to Late Autumn
	Deep Rose	X	X	X	X - For Mid to Late Autumn
	White	X	X	X	X - For Mid to Late 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). Lisianthus flowering speed and quality is influenced by temperature, daylength and 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.

LIMONIUM (STATICE) ●
Limonium sinuatum

QIS Series

Height: 30 to 35 in./76 to 89 cm

Seed supplied as: Raw

Planting density: 1 to 2 plants/ft.² (10 to 20 plants/m²)

Best for: High tunnel, field

Plug crop time: 4 to 5 weeks

Transplant to finish: 18 to 22 weeks (12 to 13 with vernalisation or direct sowing)

- Widely recommended 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.
- Produces clouds of tiny, non-shattering flowers.
- Delivers shippability and long vase life.
- Popular for both fresh and preserved cut flower production.
- Stiff stems do not require netting.

F₁ DOUBLE-FLOWERED LISIANTHUS ●
Eustoma grandiflorum

Flare Series

Height: 36 to 45 in./91 to 114 cm

Seed supplied as: Pelleted

Planting density: 8 plants/ft.² (84 plants/m²) Summer; 6 plants/ft.² (64 plants/m²) Winter

Best for: Greenhouse, high tunnel

Plug crop time: 8 to 10 weeks

Transplant to finish: Winter, 14 to 18 weeks; Spring/Autumn, 12 to 14 weeks; Summer, 10 to 12 weeks

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



Flare Deep Rose Lisianthus



Flare Deep Blue Lisianthus



Flare White Lisianthus



ABC 1 Purple



1 White



1 Rose Rim



1 Yellow



1 Green



1 Deep Rose



1 Misty Blue



1 Purple

F₁ DOUBLE-FLOWERED LISIANTHUS ●

Eustoma grandiflorum

ABC™ Series

Height: 36 to 45 in./91 to 114 cm

Seed supplied as: Pelleted

Planting density: 8 plants/ft.² (84 plants/m²) Summer; 6 plants/ft.² (64 plants/m²) Winter

Best for: Greenhouse, high tunnel

Plug crop time: 8 to 10 weeks

Transplant to finish: Winter, 14 to 18 weeks; Spring/Autumn, 12 to 14 weeks; Summer, 10 to 12 weeks

- Best-in-class genetics have proven reduced sensitivity to rosetting in the plug and after transplant. You get more saleable plants and stems, plus reduced or no need for gibberellic acid (GA) spraying.
- Uniform vigour in plug and finish stages and faster finish times assure a short harvest window.
- Produces a high-quality finished crop year-round in a comprehensive colour range.
- Outstanding double flower form with high petal count on strong stems.
- Quickly becoming the wedding flower of choice, and an essential for bouquets, corsages and other arrangements.
- Exceptional vase life.



2 Yellow



2 Misty Pink



2 Rose



2 Misty Blue



2 Lavender



2 Blue Rim



2 Blue



2 Purple



3 White



3 Rose



3 Purple

SEASONALITY NUMBER GUIDE FOR ABC SERIES

Speed Guide	ABC Varieties	Optimum Flowering Period			
		Winter (Cool Temp.)	Spring (Warm Temp.)	Summer (Hot Temp.)	Autumn (Warm Temp.)
Speed 1 Early Flowering	1 Rose Rim	X			
	1 Deep Rose	X	X		X - For Late Autumn
	1 Green	X	X		X - For Late Autumn
	1 Misty Blue	X	X		X - For Late Autumn
	1 Purple	X	X		X - For Late Autumn
	1 White	X	X		X - For Late Autumn
	1 Yellow	X	X		X - For Late Autumn
Speed 2 Mid Flowering	2 Purple	X	X		X - For Late Autumn
	2 Blue	X	X	X	X - For Mid to Late Autumn
	2 Blue Rim	X	X	X	X - For Mid to Late Autumn
	2 Lavender	X	X	X	X - For Mid to Late Autumn
	2 Misty Blue	X	X	X	X - For Mid to Late Autumn
	2 Misty Pink	X	X	X	X - For Mid to Late Autumn
	2 Rose	X	X	X	X - For Mid to Late Autumn
	2 Yellow	X	X	X	X - For Mid to Late Autumn
Speed 3 Late Flowering	3 Purple		X	X	X
	3 Rose		X	X	X
	3 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). Lisianthus flowering speed and quality is influenced by temperature, daylength and 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.



Aida White Matthiola



NEW
Mathilda Lavender Matthiola



Mathilda Blue Matthiola



Mathilda Pink Matthiola



Aida Apricot Matthiola



Mathilda Rose Matthiola



Mathilda White Matthiola



Mathilda Yellow Matthiola



Figaro Light Rose Matthiola



Figaro Lavender Matthiola



Opera Fedora Matthiola



Opera Francesca Matthiola



Opera Debora Matthiola



Vegmo Single Matricaria



Vegmo Snowball Extra Matricaria



Vegmo Sunny Ball Matricaria

MATRICARIA (TANACETUM) ●
Tanacetum parthenium

Vegmo Series

Height: 28 to 36 in./71 to 91 cm

Seed supplied as: Pelleted

Planting density: 8 plants/ft.² (80 plants/m²) in Summer; 7 plants/ft.² (70 plants/m²) in Winter

Best for: Greenhouse, high tunnel

Plug crop time: 4 to 5 weeks

Transplant to finish: Winter, 14 to 16 weeks; Spring/Autumn, 10 to 14 weeks; Summer, 7 to 10 weeks

- Excellent, fast year-round crop.
- Good post-harvest life.

Also available: **Single Yellow**

NORTHERN GREENHOUSE SELECTABLE MATTHIOLA (STOCK) ●
Matthiola incana

Seed supplied as: Raw

Planting density: 6 plants/ft.² (64 plants/m²)

Best for: Greenhouse

Plug crop time: 5 to 6 weeks

Transplant to finish: Winter, 11 to 12 weeks; Spring, 8 to 9 weeks; Summer, 6 to 8 weeks; Autumn, 4 to 7 weeks

Bred for specific seasonal performance, the Aida, Figaro, Opera and Mathilda series offer an outstanding lineup of greenhouse-grown selectable matthiola for year-round production. These matthiola 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 PanAmerican Seed Product Information Guide at panamseed.com for details.

Aida Series

(Spring Flowering, Group 2)

Stem length: 32 in./81 cm

Figaro Series

(Winter Flowering, Group 1,2)

Stem length: 30 in./75 cm

Opera Series

(Spring Flowering, Group 2)

Stem length: 32 in./81 cm

- Recommended for Autumn to late Spring flowering.
- Production is possible year-round if cool Summer temperatures are maintained in the greenhouse.

Mathilda™ Series

(Spring Flowering, Group 2)

Stem length: 32 in./81 cm

- Mathilda delivers the most uniform series on the market for habit and timing, with the best seed quality of any selectable matthiola.

- Important upgrade assures more programmable production, higher production per sq. ft./m in the greenhouse and fewer losses.

New Lavender Intense lavender colour.

Pink Slightly taller than White and Yellow.

Yellow Offers the best selectable yellow variety, with consistent, uniform colour.



Avalanche



White Goddess



Miracle Gold



Miracle Yellow



Miracle Crimson



Apricot



Appleblossom



Malmaison Pink



Pink Sweetheart



Ball Pink



Rose Pink



Pacific Crimson

TRADITIONAL FIELD-GROWN MATTHIOLA (STOCK) ●

Matthiola incana

Column Stock

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

Seed supplied as: Raw

Planting density: 2.2 lbs./acre
(1 kg/4,000 m²)

Best for: Field

Direct sow to finish: 20 to 22 weeks

- Single-stemmed florist types have dense, showy spikes of scented, large, double flowers closely spaced on the stems.
- Optimum stem length is achieved during cool growing periods; high heat can stunt plants or prevent flower spikes from developing.
- Non-selectable for doubleness.

Also available: **Formula Mixture**



American Beauty



Lilac Lavender



Purple Heart



Column Stock Apricot



Pacific Blue



Miracle Mid-Blue



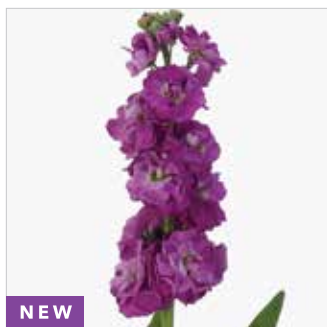
NEW

Tosca Blue Sea



NEW

Tosca Blue Sea



NEW

Tosca Rose



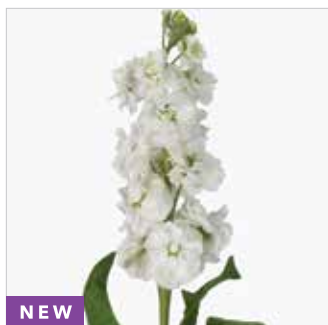
NEW

Katz Hi Double White



NEW

Tosca Yellow



NEW

Tosca White

**NORTHERN GREENHOUSE
SELECTABLE MATTHIOLA
(STOCK)**

Matthiola incana

New Tosca Series

(Spring Flowering, Group 2,3)

Stem length: 24 to 32 in./
61 to 81 cm

Seed supplied as: Raw

Planting density: 6 to 7 plants/ft²
(65 to 75 plants/m²)

Best for: Greenhouse

Plug crop time: 5 to 6 weeks

Transplant to finish: Autumn: 8 to
10 weeks, Spring: 10 to 11 weeks,
Summer: 6 to 8 weeks, Winter: 12
to 14 weeks

- A good series to grow in Summer with higher light levels and temperatures.



More usable stems

NEW Katz Hi Double White provides greater than 90% yield of usable double-flowered stems, and this top-selling colour also has flower quality to match current Katz White.



Katz White



Katz Yellow



Katz Apricot



Katz Cherry Blossom



Katz Pink



Katz Bright Rose



Katz Crimson



Katz Light Lavender



Katz Lavender Blue



Katz Blue



Katz Purple



Katz Ruby
US PVP 201200438



Katz Pink

EXTRA-EARLY FLOWERING TUNNEL OR FIELD-GROWN MATTHIOLA (STOCK) ●
Matthiola incana

New Katz Hi Double White

Stem length: 32 in./80 cm

Seed supplied as: Raw

Planting density: 12 plants/ft.² (126 plants/m²)

Best for: High tunnel, field

Plug crop time: 4 weeks

Transplant to finish: 8 to 13 weeks

- Offers all the same great features as the Katz Series.
- Provides greater than 90% yield of double-flowered stems in this top-selling colour.

Katz Series

Stem length: 32 in./80 cm

Seed supplied as: Raw

Planting density: 12 plants/ft.² (126 plants/m²)

Best for: High tunnel, field

Plug crop time: 4 weeks

Transplant to finish: 8 to 13 weeks

- Delivers shorter crop time, uniform 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 programmable Christmas through Valentine's Day flowering.
- Katz matthiola will produce approximately 50% double-flowering types.

Cherry Blossom ASCFG 2013 Fresh Cut Flower of the Year.



The power of caring & sharing

We are proud to support PANCAN for pancreatic cancer research by donating 5% of our net seed sales of Katz Matthiola in honor of Philip Katz.

PanAmerican Seed was honored to have Philip Katz as our Cut Flower Product Manager for 13 years. Philip spearheaded the drive to grow our business in this important market into one that is

now supplying commercial growers around the globe with outstanding, high-quality cut flower varieties. After a valiant battle, the disease took Philip from all of us. The debut of a new matthiola series was timely and let us honor Philip in a way he would have truly appreciated.



Maryland Orange (1,2)



Bright Yellow (2)



White (2)



Ivory White (1,2)



Appleblossom (2)



Shell Pink (1,2)

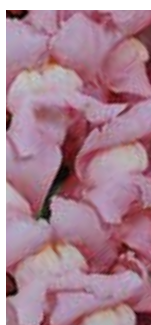


Yosemite Pink (1,2)

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 and early Spring harvest	Cool, Maryland, Purple Twist, Red Delilah
2,3	52 to 57°F/11 to 14°C for Autumn and Spring harvest	Monaco
3,4	60°F/15°C for late Spring, Summer and early Autumn harvest	Potomac, Early Potomac



Lavender (1,2)



True Pink (1,2)



Plumblossom (2)



Royal (1,2)



Dark Orange (2)



Orange (1,2)



Red (1,2)

F1 SNAPDRAGON ●

Antirrhinum majus

All cut flower snapdragons are supplied as raw seed.

Stem length: 39 to 60 in./1 to 1.5 m

Planting density: 6 to 10 plants/ft² (64 to 106 plants/m²); high-density planting under high-light or field situation

Best for: Greenhouse, high tunnel

Plug crop time: 4 to 5 weeks

Transplant to finish: 8 to 18 weeks

Maryland Series

(Group 1,2)

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

Also available: **Flamingo (1,2)**



Monaco Rose (2,3)



Baltimore Rose (2,3)



Red (2,3)



NEW
Orange (2,3)



Violet (2,3)



White (2,3)



Yellow (2,3)



Rose (2,3)

Monaco Series

(Group 2,3)

- The "go-to" snaps for difficult transition harvest periods - late Summer to early Autumn and late Winter to early Spring.
- Monaco 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.

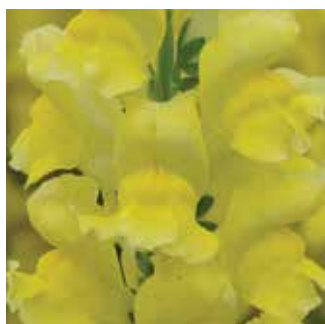
New Orange Important colour addition to this transitional season series.



Early Potomac Pink (3)



Early Potomac White (3)



Early Potomac Yellow (3)



Early Potomac Orange (3)



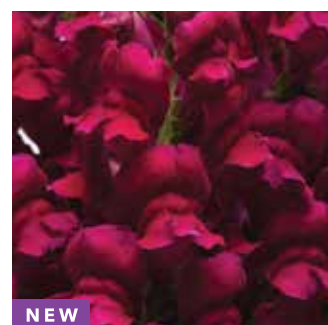
Early Potomac Rose (3)



Potomac White Improved (3,4)



Potomac White Improved (3,4)



Potomac Royal Improved (3,4)

F1 SNAPDRAGON *continued*

Early Potomac™ Series

(Group 3)

- Can be grown under medium to long days and moderate to high light levels.
- Ideal for Spring and Autumn programs, producing very high-quality, long stems with excellent taper.

Potomac™ Series

(Group 3,4)

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

New Royal Improved Offers more vivid colour saturation and better flower spike quality.

New White Improved Offers more reliable germination and improved flower spike quality.

Snap's second to none

PanAmerican Seed is the world leading supplier of F1 forcing snaps, with an unsurpassed choice of top-producing varieties selected for stem and flower quality, photoperiodic response and earliness to flower. With selections streamlined into 4 flowering response groups - including our popular Potomac family - you'll find it a "snap" to build an all-year program of successful growing.



Potomac Rose (3,4)



Potomac Ivory White (3,4)



Potomac Appleblossom (3,4)



NEW

Potomac Royal Improved (3,4)



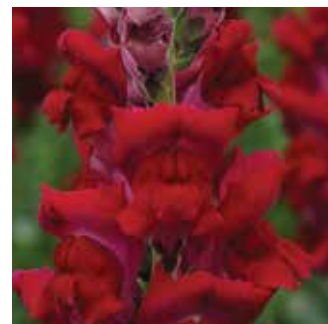
Potomac Lavender (3,4)



Potomac Dark Orange (3,4)



Potomac Cherry Rose (3,4)



Potomac Red (3,4)



Potomac Orange (3,4)



Potomac Yellow (3,4)



Potomac Crimson (3,4)



Potomac Pink (3,4)



Cool Orange (1,2)



Cool White (1,2)



Cool Pink (1,2)



Cool Yellow (1,2)



Cool Rose (1,2)



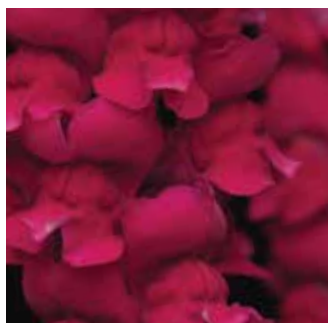
Purple Twist (2)



Red Delilah (2)



Cool Orange Bicolor (1,2)



Cool Crimson (1,2)

F1 SNAPDRAGON *continued*

Cool Series

(Group 1,2)

- Best, most uniform Winter-flowering snapdragon has genetically matched varieties with uniformity across the series and within each colour for timing, height and spike quality.
- Strong, sturdy stems have long, 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.
- Excellent production companion to delphiniums.

Purple Twist

(Group 2)

- Unique standalone variety adds novelty to your snap 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)

- Fun and first-of-its-kind snap produces unique red and white tube-patterned flower spikes on strong, sturdy stems - a great choice to make top-quality bouquets.
- Can be scheduled and grown along with the Maryland series.

**F₁ SUNFLOWER** ●*Helianthus annuus***Jua Series****Height:** 36 to 60 in./91 to 152 cm**Seed supplied as:** Treated**Planting density:** 6 to 9 days after seedlings emerge, thin to 4 to 5 plants/ft.² (42 to 52 plant/m²)**Best for:** High tunnel, field**Direct sow to finish (200-cell):** 8.5 to 10.5 weeks

- Jua varieties are bred to be less sensitive to cultural variations than traditional sunflowers.
- Pollenless, fast-growing plants produce 3.5 to 4.75-in./9 to 14-cm flowers, complemented by smaller, deep green top leaves.
- Very good vase life.
- Height is dependent on culture.

Inca Mahogany and gold bicolor petals with dark centre.**Maya** Golden yellow petals with dark black centre.**Jua Maya Sunflower****Jua Inca Sunflower**



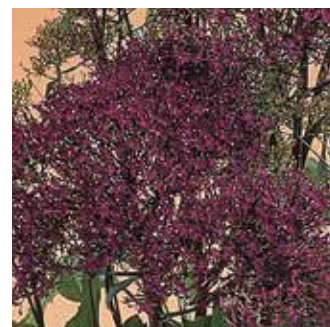
Lake Michigan Purple



Lake Michigan White



Lake Michigan Blue



Lake Michigan Violet



Lake Forest Purple

TRACHELIUM 

Trachelium caeruleum

Lake Collection

Stem length: 30 to 42 in./76 to 107 cm

Seed supplied as: Pelleted

Planting density: 6 to 8 plants/ft.² (64 to 84 plants/m²)

Best for: Greenhouse

Plug crop time: 7 to 9 weeks

Transplant to finish: 10 to 18 weeks

The Lake Collection offers simplified ordering and production to fill year-round orders. Long-day flowering varieties need 16 to 18 hours of daylength to flower and produce the large central umbel with smaller side umbels or "satellites." Excellent vase life and good shippability. Foliage is medium green unless noted.

Lake Michigan Series

(Spring and 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.

Lake Forest Purple

(Winter-Flowering)

- Transplant in Autumn to early Winter for flowering in mid-Winter to early Spring.



Jua Sunflower



PanAmerican Seed breeders constantly create new plants as well as genetic improvements on already-popular varieties. (Bombay Celosia)

PRODUCTION GUIDE				
Class/Variety	Page	Greenhouse	High Tunnel	Field
ANEMONE				
Mona Lisa Series	178	X	X	
ASCLEPIAS				
Silky Series	178	X	X	X
CAMPANULA				
Campana Series	179	X	X	
CARTHAMUS				
Grenade Orange	178		X	X
CELOSIA				
Bombay Series	180	X		
Celway Series	183	X	X	X (3 colours)
Neo Series	181	X		
Spring Green	180	X		
Sunday Series	182	X	X	
DELPHINIUM				
Blue Donna	140	X	X	X
Guardian Series	140	X	X	X
DIANTHUS				
Amazon Series	183	X	X	X
Sweet Series	184	X	X	X
GOMPHRENA				
Fireworks	46	X	X	X
QIS Series	46	X	X	
LIMONIUM				
QIS Series	185		X	X
LISIANTHUS, DOUBLE				
ABC Series	186	X	X	
Flare Series	185	X	X	
MATRICARIA				
Vegmo Series	188	X	X	
MATTHIOLA				
Aida Series	188	X		
Column Stock	189			X
Figaro Series	188	X		
Katz Series	191		X	X
New Katz Hi Double White	190		X	X
Mathilda Series	188	X		
Opera Series	188	X		
New Tosca Series	190	X		
SNAPDRAGON				
Cool Series	196	X	X	
Early Potomac Series	194	X	X	
Maryland Series	192	X	X	
Monaco Series	193	X	X	
Potomac Series	194	X	X	
Purple Twist	196	X	X	
Red Delilah	196	X	X	
SUNFLOWER				
Jua Series	197		X	X
TRACHELIUM				
Lake Forest Purple	198	X		
Lake Michigan Series	198	X		

**NEW ORANGE
MARMALADE F1 SWEET
BELL PEPPER**

Early-ripening, sweet and flavourful bell peppers will brighten up any salad or stir fry. See page 205.



**SNACKABELLE RED
SWEET PEPPER**

These peppers are great in containers for small spaces. See page 205.



**NEW EVERLEAF
EMERALD TOWERS
BASIL**

Versatile, towering basil is good in pots and in the ground. See page 213.





HANDPICKED VEGETABLES & HERBS

FRESH IDEAS™

This novel, high-quality group of vegetables and herbs has been carefully selected for those who supply fresh market farmers, as well as hobby gardeners. The varieties offer **fresh, home-grown flavour** and **exceptional fruit quality**, along with **earlier and longer harvests**, and **loads of tasty produce**. We bring all of our expertise and innovation into developing, testing and selecting our HandPicked Vegetables, and every product is backed by our **world-class service, extensive growing information** and **expert technical support** so you can grow and sell with confidence.

Check out the full lineup at panamseed.com/HandPicked





Gherking



Patio Snacker



Martini

CUCUMBER 🟡
Cucumis sativus

Seed supplied as: Raw

Name	Type	Fruit characteristics	Days to maturity from direct seed	Fruit size	Flower type	Disease resistance	Comments
Gherking F1	European pickler	Medium green skin, highly spined	55-60	3-5 in./ 8-13 cm long	Gynoecious, parthenocarpic	HR: CMV-1, S IR: DM, PM	Early, large yields of bitter-free fruit; won't become bitter if left on the vine. Great for high-tunnel production and gardens lacking pollinators; vigorous vines are best when trellised. Cylindrical, dark green gherkins with white spines are perfect for pickling and fresh eating. Best in-ground.
Martini F1	American slicer	White skin, slightly spined	55-60	5-6 in./ 13-15 cm long x 1.5-2 in./ 4-5 cm wide	Monoecious	IR: PM	Stands out from the competition for its non-yellowing, white exterior and earlier yields. Very tender, "no peel" skin if harvested at 5 to 6 in./13 to 15 cm length, with white, bitter-free interior that is very sweet and crunchy. Staying power in the heat of Summer. Best in-ground.
Patio Snacker F1	American slicer	Medium green skin, moderately spined	50-55	6-8 in./ 15-20 cm long x 1.5-2 in./ 4-5 cm wide	Monoecious, parthenocarpic		Controlled yet vigorous variety produces short, branching vines. Fruit has good flavour, crunchy texture and non-bitter peel. High-yielding with continuous harvest. Great for large containers with a small trellis; works well in pack/pot programs.

Disease terminology: HR = High Resistance, IR = Intermediate Resistance
 Disease codes: CMV-1 - Cucumber Mosaic Virus Race 1, DM - Downy Mildew, PM - Powdery Mildew, S - Scab
 Flower Type: Gynoecious - predominantly female flowers, Monoecious - plants contain both male and female flowers,
 Parthenocarpic - plant has the ability to set fruit without pollination

Use Patio Baby eggplant to add taste and visual appeal in Plug & Play Combos like this!



Plug & Play Combo Lunch Date, see page 233.

EGGPLANT ●
Solanum melongena

Seed supplied as: Raw



Gretel All-America Selections National Winner



Hansel All-America Selections National Winner



Patio Baby All-America Selections Regional Winner

Name	Days to maturity from transplant	Fruit size	Fruit characteristics	Calyx colour	Plant habit	Comments
Gretel F1	55-60	3-4 in./8-10 cm long (baby size) 4-6 in./10-15 cm long (full size)	White, elongated	Green	Upright, semi-spineless	Earliest white eggplant is highly productive, producing clusters of glossy mini-fruit that are tender and non-bitter. Indeterminate, 3-ft. (91-cm) plants can be grown in-ground or in large containers, with or without support. More productive and 5 to 7 days earlier to ripen than O.P. types. Slightly larger plant with slightly smaller fruit than Hansel. <i>All-America Selections National Winner.</i>
Hansel F1	50-55	2-3 in./5-8 cm long (baby size) 6-10 in./15-25 cm long (full size)	Black-purple, elongated	Green	Upright, semi-spineless	Early-maturing, highly productive variety produces clusters of glossy black-purple eggplants. Non-bitter, tender fruit can be used in many culinary recipes. Like white Gretel, the petite, 3-ft. (91-cm) plants can be grown in-ground or in large containers, with or without support. <i>All-America Selections National Winner.</i>
Patio Baby F1	40-45	2-3 in./5-8 cm long (baby size)	Purple, mini egg	Green	Compact, spineless	Unique, high-yielding, compact variety produces baby-size eggplants very early and continues producing throughout the season. Fits well into retail patio programs. Best in-ground and in containers. <i>All-America Selections Regional Winner.</i>



Aji Rico All-America Selections National Winner



Cajun Belle All-America Selections National Winner



Golden Cayenne



La Bomba II Jalapeño



Habanero Primero Red

PEPPER ●

Seed supplied as: Raw

Name	Days to maturity from transplant	Fruit characteristics	Plant habit	Disease resistance	Comments
HOT PEPPER					
Aji Rico F1 <i>Capsicum baccatum</i>))	70-75 to full ripe, 50-55 to green	Conical, green to red 3-4 in./8-10 cm long x 1.25-1.75 in./3-4 cm wide	Extra large, vigorous		Unique hybrid hot pepper has more vigour, higher yield and earlier ripening than O.P. heirlooms. Narrow, conical fruit with delicate citrus flavour and medium heat is crispy and thin-walled - perfect fresh or cooked, green or red. Best in-ground; large indeterminate plants benefit from a support. <i>All-America Selections National Winner.</i>
Cajun Belle <i>Capsicum annuum</i>))	60-65 to full ripe, 45-50 to green	Mini bell, green to red 2-3 in./5-8 cm long x 2-3 in./5-8 cm wide	Medium		Produces bell peppers with mildly spicy taste just right for fresh eating and salsa. Harvest green or red. Best in-ground and in containers. <i>All-America Selections National Winner.</i>
Golden Cayenne <i>Capsicum annuum</i>))	85-90 to full ripe, 70-75 to green	Cayenne, green to yellow 3-5 in./8-13 cm long x 0.5-0.75 in./1-2 cm wide	Bush		Cayenne-shaped fruit will mature from green to golden-yellow and increase in heat as they ripen. Golden Cayenne fruit are excellent for cooking or fresh eating in salsa and sauces, or dried and ground into a unique golden-yellow powder. Compact bush plant performs well in medium-sized containers or in-ground, with or without support.
Habanero Primero Red F1 <i>Capsicum chinense</i>)))))	75-80 to full ripe, 60-65 to green	Habanero, green to red 2.75-3.5 in./7-9 cm long x 1.25-1.5 in./3-4 cm wide	Large	IR: TSWV	One of the earliest ripening habaneros on the market, with fruit ready to harvest as early as bell peppers. Produces huge yields of fruit larger than other standard habaneros, with just about one-third the heat. Early flowering - can be sold in large pots with flowers and immature fruit. Best in containers or in-ground.
La Bomba II F1 Jalapeño <i>Capsicum annuum</i>)))))	65-70 to full ripe, 50-55 to green	Jalapeño, green to red 3-3.25 in./8 cm long x 1-1.15 in./3 cm wide	Tall, large	HR: BLS 1-3, TMV	Upgraded for superior disease resistance. Bears very large, high-quality jalapeños with little to no checking. Best in containers or in-ground.

) = mild)) = mildly hot))) = medium hot)))) = hot))))) = extra hot

Disease terminology: HR = High Resistance, IR = Intermediate Resistance
Disease codes: BLS - Bacterial Leaf Spot, TMV - Tobacco Mosaic Virus, TSWV - Tomato Spotted Wilt Virus



Mad Hatter All-America Selections
National Winner



Sweet Heat



Candy Cane Red



NEW
Orange Marmalade



Snackabelle Red

Name	Days to maturity from transplant	Fruit characteristics	Plant habit	Disease resistance	Comments
HOT PEPPER					
Mad Hatter F1 <i>Capsicum baccatum</i>	85-90 to full ripe, 65-70 to green	Unique disc, green to red 2-3.5 in./5-9 cm long x 2-2.5 in./5-6 cm wide	Extra large, vigorous		Flat-disc peppers are crunchy and crisp, with delicate floral scent and rich flavour that intensifies/sweetens as it matures. In hot, dry climates, a small number of fruit will have a touch of heat close to the seed cavity, but fruit wings are always sweet. Best in-ground with support. <i>All-America Selections National Winner.</i>
Sweet Heat F1 <i>Capsicum annuum</i>	55-60 to full ripe, 40-45 to green	Snack, green to red 3.5-4 in./9-10 cm long x 1.25-1.75 in./3-4 cm wide	Compact		One of the earliest peppers to bear fruit! Compact, bushy plants let you ship or sell larger containers with developing fruit. Sweet and mildly spicy peppers can be harvested green or red. Best in containers or in-ground.
SWEET PEPPER					
Candy Cane Red F1 <i>Capsicum annuum</i>	60-65 to full ripe, 40-45 to green	Snack, green/white stripe to red 3.5-4 in./9-10 cm long x 1.25-1.75 in./3-4 cm wide	Medium		Snack pepper has unique, eye-catching variegated foliage, plus fruit that ripen from green striped to solid red. Sweet flavour, thin walls, crispy texture. Perfect for fresh eating at any stage of ripeness. Best in containers or in-ground, with or without support.
New Orange Marmalade F1 <i>Capsicum annuum</i>	70-75 to full ripe, 55-60 to green	Bell, green to orange 3.5-4 in./9-10 cm long x 3-3.5 in./8-9 cm wide, 6-7 oz. (170 to 198 g)	Bush	HR: BLS 1-3, 7, 8; TMV	Orange Marmalade is an easy addition to any garden, with high yields of sweet bell peppers that ripen from green to orange. Early-ripening, sweet and flavourful medium-sized fruit are perfect for slicing fresh in a salad. Blocky bell shape is also great for stuffing. Includes a superior disease-resistance package. Supplied as professional-quality, disease-tested seed.
Snackabelle Red F1 <i>Capsicum annuum</i>	70-75 to full ripe, 55-60 to green	Mini bell, green to red 2-2.25 in./5-6 cm long x 2-2.25 in./5-6 cm wide	Compact	HR: BLS 1-3, 7, 8; TMV	Thick-walled, blunt-end peppers have rich, sweet flavour great for fresh eating from green to red, and hold up well through grilling and stuffing. "Easy-out" stem and seeds - simply push down or cut around cap to release seed cavity for quick cleaning. Best in containers or in-ground.



NEW

Artemis



Chocolate Sprinkles



NEW

Helix



Little Bing

TOMATO ●
Solanum lycopersicum
(Lycopersicon esculentum)

Seed supplied as: Raw

Name	Days to maturity from transplant	Fruit characteristics	Growth	Disease resistance	Comments
CHERRY					
New Artemis F1	50-55	Round, medium, red 1-1.3 in./3 cm long x 1 in./3 cm wide, 0.3-0.5 oz. (9 to 14 g)	I	HR: F1, F2, LM, N, TMV, ToMV	One bite of these super-sweet, rich, red cherry tomatoes will have you craving more. The unique, crisp, firm texture is great in a salad or for sauce. High disease resistance to root-zone and foliar disease will ensure excellent plant health. Best grown in-ground.
Chocolate Sprinkles F1	50-55	Elongated, medium, dark red with green stripes 1.5 in./4 cm long x 1 in./3 cm wide	I	HR: F1, N, TMV, ToMV	First in this type with a disease-resistance package. Unique dark red with green stripe exterior and purple flesh colour. Produces more fruit with better flavour than similar O.P. varieties. Best in-ground.
New Helix F1	50-55	Elongated, medium, bright red 1-1.4 in./3-4 cm long x 1 in./3 cm wide, 0.3-0.5 oz. (9 to 14 g)	I	HR: F1, F2, LB, N, TMV, ToMV, V	Experience the taste of Summer with a perfect balance of sweet and acid from Helix red cherry tomato. With early-ripening fruit and high yields, Helix is perfect for fresh eating. High resistance to root-zone and foliar diseases, including Late Blight resistance, will help ensure excellent plant health. Best grown in-ground.
Little Bing F1	60-65	Round, medium, red 1 in./3 cm long	CD	HR: F2, V	Part of the Little Collection of dwarf determinate varieties. Fruit sets and ripens over a period of a few weeks, allowing harvest of many tomatoes at one time. Yields large amounts of flavour-filled, red cherry tomatoes for fresh eating or to add to recipes. Best in containers, with or without support.



Micro Tom



Orange Zinger



Sugar Rush



Midnight Snack All-America Selections National Winner

Name	Days to maturity from transplant	Fruit characteristics	Growth	Disease resistance	Comments
CHERRY					
Micro Tom	50	Round, small, red 0.5-0.75 in./1-2 cm long	CD		Novelty variety produces an extremely dwarf plant covered with sweet fruit. Well-suited to 3 to 4-in./8 to 10-cm pot production. Best in containers.
Midnight Snack F1	65-70	Round, medium, red with black overlay 1.5 in./4 cm long	I		Unique cherry tomato ripens red with an overlay of glossy black-purple on the skin when exposed to sunlight due to the accumulation of anthocyanin pigment. Sure to capture attention at retail and on the farm stand! Productive all season, yielding fruit that is well-balanced and flavourful. Great in salads or eaten straight off the plant, Midnight Snack is a guilt-free treat any time of the day or night. Best in-ground, grown with support. <i>All-America Selections National Winner.</i>
Orange Zinger F1	60-65	Round, large, dark orange 1.5-2 in./4-5 cm long	I	HR: F1 TMV, ToMV	Crack-resistant variety yields more usable fruit than Sungold. The high-quality, tasty, dark orange tomatoes have big tomato flavour with a balance of sweet and tangy. Best in-ground.
Sugar Rush F1	50-55	Elongated, medium, red 0.75-1.25 in./2-3 cm long x 0.5-1 in./1-3 cm wide	I	HR: F1, TMV, ToMV	Super-sweet elongated fruit has one of the highest Brix ratings of this type. Fast-maturing and very productive all season; produces long trusses of fruit with great flavour and texture. Best in-ground.

Disease terminology: HR = High Resistance, IR = Intermediate Resistance

Disease codes: EB - Early Blight, F1 - Fusarium Race 1, F2 - Fusarium Race 2, LB - Late Blight, LM - Leaf Mold, N - Nematodes, SLS - Septoria Leaf Spot, TMV - Tobacco Mosaic Virus, ToMV - Tomato Mosaic Virus, V - Verticillium

Growth: CD - Compact Determinate, CI - Compact Indeterminate, D - Determinate, I - Indeterminate, SD - Semi-determinate



Tidy Treats



Tumbler



Topsy Tom



Candyland Red (Fruit shown actual size) *All-America Selections National Winner*

Name	Days to maturity from transplant	Fruit characteristics	Growth	Disease resistance	Comments
CHERRY					
Tidy Treats F1	50-55	Round, small, red 0.75-1 in./2-3 cm long	CI	HR: F1, V	Tons of fruit power on a compact plant! Good in small-space gardens and containers but unlike other patio types, continues to produce red cherry tomatoes all season. Habit stays compact like a determinate but produces like an indeterminate. Best in containers or in-ground grown with support.
Topsy Tom F1	50-55	Round, medium, red 1 in./3 cm long x 1.25 in./3 cm wide	SD		Perfect for "upside down" and traditional planters. Compact/mounded. Pliable stems ship well, hold abundant fruit, won't break in wind. Continues to put out branches with many trusses of split-resistant, sweet fruit.
Tumbler F1	48-50	Round, medium, red 1.25 in./3 cm long	D		A superior variety for baskets and containers has graceful, cascading habit. Prolific, extra-early plants produce up to 6 lbs./2.7 kg of very sweet cherry tomatoes.
CURRENT					
Candyland Red	55-60	Red 0.5 in./1 cm long x 0.5 in./1 cm wide	I		Stays compact and tidy, so it won't take over like the other sprawling currants; easy to grow and earlier, too. Branched trusses make for accessible harvest and fruits detach without damage for more usable fruit. Very high yields of tiny, red fruit deliver very sweet flavour. Best in-ground. <i>All-America Selections National Winner.</i>

Disease terminology: HR = High Resistance, IR = Intermediate Resistance

Disease codes: EB - Early Blight, F1 - Fusarium Race 1, F2 - Fusarium Race 2, LB - Late Blight, N - Nematodes, SLS - Septoria Leaf Spot, TMV - Tobacco Mosaic Virus, ToMV - Tomato Mosaic Virus, V - Verticillium

Growth: CD - Compact Determinate, CI - Compact Indeterminate, D - Determinate, I - Indeterminate, SD - Semi-determinate

New twists on old garden favourites

We trialed hundreds of heirlooms for key traits like colour, flavour, quality, yield. Our favourites were selected...crossed...tested and evaluated. The result: Heirloom Marriage™ hybrid tomatoes, with much higher yields and earlier maturity than their parents, plus all of the great flavour and less fruit blemishes.



Heirloom Marriage Big Brandy



Heirloom Marriage Marziner



Heirloom Marriage Genuwine



Heirloom Marriage Cherokee Carbon



Heirloom Marriage Perfect Flame

TOMATO ●

Solanum lycopersicum
(*Lycopersicon esculentum*)

Seed supplied as: Raw

Name	Days to maturity from transplant	Fruit characteristics	Growth	Comments
HEIRLOOM MARRIAGE™ COLLECTION				
Big Brandy F1	75-80	Beefsteak, pink 12-15 oz. (340-425 g)	I	Big, pink fruit with outstanding flavour is a cross of Big Dwarf and Brandywine. Best in-ground.
Cherokee Carbon F1	75-80	Beefsteak, purple 10-12 oz. (283-340 g)	I	Robust purple beefsteak with rich flavour. A cross of Cherokee Purple and Carbon. Best in-ground.
Genuwine F1	70-75	Slicer, red 10.5-11.5 oz. (298-326 g)	I	Big red slicer tomato is a cross of Costoluto Genovese and Brandywine. Ready to harvest 12 to 19 days earlier than Brandywine! Best in-ground.
Marziner F1	70-75	Roma, red 3-4 oz. (85-113 g)	I	Red roma/paste tomato produces large yields of meaty fruit that are great for cooking. A cross of San Marzano and Cream Sausage. Best in-ground.
Perfect Flame F1	70-75	Saladette, orange 2-3 oz. (57-85 g)	I	Orange saladette tomato with sweet-tart fruitiness. Earliest-ripening Heirloom Marriage variety. A cross of Peron and Flamme. Best in-ground.

Growth: CD - Compact Determinate, CI - Compact Indeterminate, D - Determinate, I - Indeterminate, SD - Semi-determinate



Mix tomatoes, parsley and petunias in tempting Plug & Play Combos like this!



Plug & Play Combo Italian Bistro, see page 233.

TOMATO ●
Solanum lycopersicum
(*Lycopersicon esculentum*)

Seed supplied as: Raw

Little Tomato Collection L to R: Little Napoli, Little Bing (page 206) and Little Sicily

Name	Days to maturity from transplant	Fruit characteristics	Growth	Disease resistance	Comments
BEEFSTEAK					
Tidy Rose F1	60-65	Pink 5-7 oz. (142-198 g)	CI		Popular Tidy Treats has a deep pink beefsteak companion - both remain compact like a determinate but produce like an indeterminate. Beautiful ribbed fruit with rich heirloom flavour are perfect for any culinary use. Best in containers or in-ground, grown with support.
ROMA					
Little Napoli F1	60-65	Red 2-2.5 oz. (57-71 g)	CD	HR: F1, V	One of the only patio romas, with disease resistance for better garden success. High yields for such a small plant - harvest enough at one time for a batch of salsa or sauce. Best in containers.
Sunrise Sauce F1	55-60	Orange 3-4 oz. (85-113 g)	D	HR: F1, V	The only professional non-heirloom orange roma/paste/cooking tomato on the market. Yields large amounts at one time to harvest enough to make a batch of sauce or salsa. Small plants are ideal for small-space gardens and large containers. Easy-to-peel tomatoes are sweet and meaty, with a taste like traditional romas. Best flavour comes with cooking; can also be enjoyed fresh. Best in-ground.
SLICER					
Homeslice F1	60-65	Round, red 5-6 oz. (142-170 g)	D	HR: F1, V	Vigorous, compact variety produces very early and bountiful yields of exceptional slicers. Perfect for patio containers and small gardens.
Little Sicily F1	60-65	Round, red 3-4 oz. (85-113 g)	CD		Companion to Little Bing and Little Napoli, the compact, sturdy plants produce the majority of ripened fruit over a few weeks for a large harvest. Abundant, good-tasting, small red slicer tomatoes are great eaten fresh or used in recipes. Best in containers, with or without a trellis.
Stellar F1	70-75	Round, red 5-7 oz. (142-198 g)	D	HR: F2, LB, V IR: EB, SLS	The perfect slicer for areas with high disease pressure; highest level of disease resistance occurs when planted apart from other tomatoes. Produces lots of round, red fruit that is perfect for all uses. Best in-ground; benefits from a trellis for support.

Disease terminology: HR = High Resistance, IR = Intermediate Resistance

Disease codes: EB - Early Blight, F1 - Fusarium Race 1, F2 - Fusarium Race 2, LB - Late Blight, N - Nematodes, SLS - Septoria Leaf Spot, TMV - Tobacco Mosaic Virus, ToMV - Tomato Mosaic Virus, V - Verticillium

Growth: CD - Compact Determinate, CI - Compact Indeterminate, D - Determinate, I - Indeterminate, SD - Semi-determinate



Tidy Rose



Sunrise Sauce



Homeslice



Stellar



Butterbaby Butternut Squash



Easy Pick Green Zucchini



Lemon Sun Squash

SQUASH ●

Seed supplied as: Raw

STRAWBERRY ●

Fragaria x ananassa

Fresca

Height: 3 to 4 in./8 to 10 cm

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

Seed supplied as: Raw

Days from transplant to ripe fruit: 85

- Produces medium-size berries from the start of Summer through Autumn.
- Best in baskets, containers and in-ground.



Honeynut Butternut Squash



EasyPick Gold II Zucchini



Fresca Strawberry

Name	Type	Exterior colour	Days to maturity from direct seed	Fruit size/weight	Plant habit	Disease resistance	Comments
Butterbaby <i>Cucurbita moschata</i>	Mini butternut	Tan	100-105	4-6 in./10-15 cm long x 3-4 in./ 8-10 cm wide, 0.5-1.5 lb./ 227-680 g	Restricted Vine	IR: PM	Produces many sweet, personal-size butternuts. High proportion of uniform fruit - around 1 lb./454 g each - means less grading for the fresh market farmer and satisfaction for the home gardener. Best in-ground; can be grown on a trellis to save even more space.
Honeynut <i>Cucurbita moschata</i>	Mini butternut	Dark tan	105-110	4-5 in./10-13 cm long x 2.5-4 in./ 6-10 cm wide, 0.5-1 lb./ 227-454 g	Restricted Vine		Produces exceptionally sweet, small fruit that are manageable to prepare. The first widely adaptable small-fruited butternut squash in a high-germinating, uniform strain. Higher yielding than traditional varieties. Best in-ground.
Easy Pick Gold II F1 <i>Cucurbita pepo</i>	Zucchini	Gold	45-50	1-10 in./3-25 cm long	Bush	IR: PRSV, WMV, ZYMV	Easy Pick Series is well-matched, smooth-textured and can be grown and marketed together. Open habit with nearly no spines on the petioles for easy and continuous harvests with no pain and less scarring on fruit. Parthenocarpic variety means that plants will produce fruit without insect pollination. Harvest from a very small size with a flower attached. Best in-ground.
Easy Pick Green F1 <i>Cucurbita pepo</i>	Zucchini	Dark green	45-50	1-10 in./3-25 cm long	Bush		
New Lemon Sun F1 <i>Cucurbita pepo</i>	Patty Pan	Yellow	40-45	1-3 in./3-8 cm long x 1-5 in./ 3-13 cm wide	Bush		Vigorous and strong bush plant habit will produce exceptional yields of uniform, yellow, scalloped, disc-shaped fruit with no green on the blossom end. Fruit are sweet and tender; harvest from baby with the flower attached to full size, 4 to 5 in./ 10 to 13 cm wide. Large quantities of male flowers are perfect for frying. Best grown in-ground.

Disease terminology: HR = High Resistance, IR = Intermediate Resistance

Disease codes: PRSV - Papaya Ringspot Virus, PM - Powdery Mildew, WMV - Watermelon Mosaic Virus, ZYMV - Zucchini Yellow Mosaic Virus



Dolce Fresca Basil
All-America Selections National Winner



Purple Ruffles Basil
All-America Selections National Winner



Newton Basil



Everleaf Genovese Basil



Fernleaf Dill
All-America Selections National Winner



Sweet Dani Lemon Basil All-America Selections National Winner



Everleaf Emerald Towers Basil

HERBS ●

Seed supplied as: Raw

Name	Height	Spread	Days to maturity from transplant	Comments
BASIL <i>Ocimum basilicum</i>				
Dolce Fresca	12-14 in./ 30-36 cm	10-12 in./ 25-30 cm	28	Mid-size plant has a unique bushy habit with shorter internodes that shows better at retail than traditional basil and holds its controlled size in the garden without getting tall and leggy. More usable leaf yields, with traditional sweet Genovese basil flavour. <i>All-America Selections National Winner.</i>
New Everleaf Emerald Towers	24-36 in./ 61-91 cm	8-12 in./ 20-30 cm	30-45	Flowers up to 10 to 12 weeks later than standard basil. Well-branched variety with short internodes makes a beautiful towering plant with huge harvest potential that stays tidy for many uses, including in-ground, container gardens and hydroponics. Traditional Genovese flavour is perfect for eating fresh in caprese salad or chopped fresh in recipes. Dark green, glossy foliage and tidy columnar habit stand out at retail.
Everleaf Genovese	18-24 in./ 46-61 cm	12-18 in./ 30-46 cm	30-45	Flowers up to 8 weeks later than standard basil. First basil bred for season-long performance and continual harvesting. Compact variety has short internodes and excellent branching in a columnar habit, perfect for in-ground or container gardens. Robust Genovese flavour stands up to cooking - perfect for pesto and adding to sauce. Intermediate resistance to Downy Mildew and standard resistance to Fusarium make it a standout in any garden!
New Newton	12-20 in./ 30-51 cm	10-16 in./ 25-41 cm	21-30	Fast-growing variety with traditional Genovese flavour also features high resistance to Fusarium. Unlike similar varieties, Newton does not have a licorice aftertaste, appealing to a wide range of consumers. Large, bright green, crinkled leaves are great for vegetable wraps and fresh chopped herbs.
Purple Ruffles	18-24 in./ 46-61 cm	18-24 in./ 46-61 cm	28	Ornamental variety has fragrant, ruffled, deep purple leaves with mild anise flavour. <i>All-America Selections National Winner.</i>
Sweet Dani Lemon	22-24 in./ 56-61 cm	18-24 in./ 46-61 cm	28	Flavourful and fragrant - up to 75% more total essential oils than standard lemon basil. Vigorous garden performer. <i>All-America Selections National Winner.</i>
DILL <i>Anethum graveolens</i>				
Fernleaf	12-15 in./ 30-38 cm	10-12 in./ 25-30 cm	28	Perfect for patio planters - dwarf, compact plants don't need staking and won't topple over. Can also be grown in-ground and used for traditional culinary purposes. Late flowering allows for a long harvest season and extended ornamental period. <i>All-America Selections National Winner.</i>



SimplyHerbs controlled seed input produces a healthy, uniform product for retail.



SimplyHerbs Basil and 'Try Basil' grown with Precision Multi-Pellets in hydroponic production.

**SINGLE-SPECIES
MULTI-SEED PELLETS** ●

SimplyHerbs™ Series

SimplyHerbs Basil, 'Try Basil', Dill, Curled Parsley, Large-Leaf Italian Flat Leaf Parsley, Rosemary and Sage are available as **Precision™ Multi-Pellets**.

For Growers, this offers reliable plug production, improved order fill rate, uniform quality in plug trays and improved margin, meaning more sales.

For Hydroponic Growers, this offers a higher percentage of transplantable plugs and more uniform finished product.

All varieties are best in-ground and in containers.

Name	Seed supplied as	Seeds per pellet	Height	Spread	Days to harvest from transplant	USDA hardiness zones
Basil <i>Ocimum basilicum (Genovese)</i>	PMPL	6	24-30 in./61-76 cm	12-16 in./30-41 cm	28	
'Try Basil' <i>Ocimum basilicum</i>	PMPL*	8	24-30 in./61-76 cm	12-16 in./30-41 cm	28	
Dill <i>Anethum graveolens</i>	PMPL	6	12-24 in./30-61 cm	10-16 in./25-41 cm	28	
Oregano <i>Origanum vulgare</i>	MPL	9-14	12-30 in./30-76 cm	12-24 in./30-61 cm	28	5a-9b
Curled Parsley <i>Petroselinum crispum</i>	PMPL	6	15-18 in./38-46 cm	12-18 in./30-46 cm	28	5a-8b
Large-Leaf Italian Flat Leaf Parsley <i>Petroselinum crispum</i>	PMPL	6	15-18 in./38-46 cm	12-18 in./30-46 cm	28	5a-8b
Rosemary <i>Rosmarinus officinalis</i>	PMPL	7	12-24 in./30-61 cm	12-24 in./30-61 cm	42	7a-10b
Sage <i>Salvia officinalis</i>	PMPL	6	18-24 in./46-61 cm	14-24 in./36-61 cm	28	4a-8b
Thyme <i>Thymus vulgaris</i>	MPL	8-14	12-18 in./30-46 cm	12-18 in./30-46 cm	42	5a-9b

*Each pellet includes Genovese, serrated and dark red selections.



SimplyHerbs Dill



SimplyHerbs 'Try Basil'



SimplyHerbs Basil



SimplyHerbs Rosemary



SimplyHerbs Large-Leaf Italian Flat Leaf Parsley



SimplyHerbs Curled Parsley



SimplyHerbs Oregano



SimplyHerbs Sage



SimplyHerbs Thyme



SimplySalad Arugula



SimplySalad Wonder Wok Mixture

MULTI-SPECIES & SINGLE-SPECIES MULTI-PELLETS ●●

SimplySalad® Series

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

Plug crop time: 2 to 3 weeks

Cress:
Plug crop time: 3 to 4 weeks

- SimplySalad introduced the first multi-species multi-seed pellets for salad.
- Easy to grow with very quick crop times and only one pellet needed.
- Can be direct-sown in 4 to 6-in./10 to 15-cm pots and colour bowls.
- Produces more vivid colours when finished cool.
- Gardeners will enjoy as both a colourful, mixed-texture ornamental and a delicious, nutritious edible.
- Performs best for consumers in full sun in cool weather, or partial shade as temperatures warm up.
- Best in containers.

Name	Seed supplied as	Seeds per pellet	Height	Spread	Days to maturity from transplant	Comments
Alfresco Mixture	MPL	10-12	12 in./30 cm	12 in./30 cm	2-4 weeks	Red and green leaf lettuces with arugula, endive and radicchio.
Arugula	PMPL	6	12-18 in./30-46 cm	12-18 in./30-46 cm	2-4 weeks	A great variety for hydroponic systems. Quick to establish, upright variety with a mix of lobes and smooth shapes - perfect for bunching. Harvest as young leaves with a mild, nutty flavour; leaves become spicy as they mature or are exposed to high temperatures.
City Garden Mixture	MPL	7-9	12 in./30 cm	12 in./30 cm	2-4 weeks	Red and green lettuces.
Cress	PMPL	6	6-12 in./15-30 cm	8-12 in./20-30 cm	3-4 weeks	A great variety for hydroponic systems. Rosette-forming plants stay in a neat, tidy bunch for many weeks before flowering. Leaves have a great lobe shape and spicy flavour perfect for salads or braising.
Global Gourmet Mixture	MPL	10-12	12 in./30 cm	12 in./30 cm	2-4 weeks	Red and green leaf lettuces with spicy Asian greens.
Kale Storm Mixture	PMPL	8	12-24 in./30-61 cm	12-24 in./30-61 cm	2-4 weeks	The first all-kale SimplySalad includes an attractive mix of textures and colours, including purple, green and blue. Lasts longer in the container than lettuce and won't bolt. Can also be planted in the ground for all-season harvest.
Summer Picnic Mixture	MPL	10-12	12 in./30 cm	12 in./30 cm	2-4 weeks	A season extender! Heat-tolerant, late-bolting mix of red and green lettuces.
Wonder Wok Mixture	MPL	10-12	12 in./30 cm	12 in./30 cm	2-4 weeks	Mix of Asian greens including mustards, kale and bok choy.

MPL - Supplied as multi-species multi-pellets, with 3 or more seedlings per pellet.
PMPL - Precision™ Multi-Pellets assure high germination uniformity.



SimplySalad Series



Cress



Arugula



Alfresco Mixture



Global Gourmet Mixture



Wonder Wok Mixture



Summer Picnic Mixture



Precision Multi-Pellet Standard Multi-Pellet

A seed first! SimplySalad multi-pellets produce a well-balanced salad mix with one sowing.



Kale Storm Mixture



City Garden Mixture

HANDPICKED VEGETABLES & HERBS / PRODUCTION GUIDE

Class/Variety	Page	Fresh Market			Home Garden	
		Field	Hydroponic	Protected Culture	In-ground	Container
F1 AMERICAN SLICER CUCUMBER						
Martini	202	X			X	
Patio Snacker*	202				X	X
F1 EUROPEAN PICKLER CUCUMBER						
Gherking	202	X		X	X	
F1 EGGPLANT						
Gretel	203	X			X	X
Hansel	203	X			X	X
Patio Baby	203	X			X	X
HOT PEPPER						
Aji Rico F1	204	X			X	
Cajun Belle	204	X			X	X
Golden Cayenne*	204				X	X
Habanero Primero Red F1	204	X			X	X
La Bomba II F1	204	X			X	X
Mad Hatter F1	205	X			X	
Sweet Heat F1*	205				X	X
F1 SWEET PEPPER						
Candy Cane Red	205	X			X	X
New Orange Marmalade	205	X			X	X
Snackabelle Red	205	X			X	X
SIMPLYSALAD®						
Alfresco Mixture	216		X		X	X
Arugula	216	X	X		X	X
City Garden Mixture	216		X		X	X
Cress	216	X	X		X	X
Global Gourmet Mixture	216		X		X	X
Kale Storm Mixture	216	X	X		X	X
Summer Picnic Mixture	216		X		X	X
Wonder Wok Mixture	216		X		X	X
MINI BUTTERNUT SQUASH						
Butterbaby	212	X			X	
Honeynut	212	X			X	
F1 PATTY PAN SQUASH						
New Lemon Sun	212	X			X	
F1 ZUCCHINI SQUASH						
Easy Pick Gold II	212	X		X	X	X
Easy Pick Green	212	X		X	X	X
STRAWBERRY						
Fresca*	212				X	X
HEIRLOOM MARRIAGE™ F1 TOMATO						
Big Brandy	209	X			X	
Cherokee Carbon	209	X			X	
Genuwine	209	X			X	
Marzinera	209	X			X	
Perfect Flame	209	X			X	

HANDPICKED VEGETABLES & HERBS / PRODUCTION GUIDE

Class/Variety	Page	Fresh Market			Home Garden	
		Field	Hydroponic	Protected Culture	In-ground	Container
F1 BEEFSTEAK TOMATO						
Tidy Rose*	210				X	X
CHERRY TOMATO						
New Artemis F1	206	X		X	X	
Chocolate Sprinkles F1	206	X		X	X	
New Helix F1	206	X			X	
Little Bing F1*	206					X
Micro Tom*	207					X
Midnight Snack F1	207	X			X	
Orange Zinger F1	207	X			X	
Sugar Rush F1	207	X			X	
Tidy Treats F1*	208				X	X
Topsy Tom F1*	208					X
Tumbler F1*	208					X
CURRENT TOMATO						
Candyland Red	208	X			X	
F1 ROMA TOMATO						
Little Napoli*	210					X
Sunrise Sauce	210	X			X	
F1 SLICER TOMATO						
Homeslice	210	X			X	X
Little Sicily*	210					X
Stellar	210	X			X	
SIMPLYHERBS™						
Basil	214	X	X		X	X
'Try Basil'	214	X	X		X	X
Dill	214	X	X		X	X
Oregano	214	X	X		X	X
Curled Parsley	214	X	X		X	X
Large-Leaf Italian Flat Leaf Parsley	214	X	X		X	X
Rosemary	214	X			X	X
Sage	214	X			X	X
Thyme	214	X			X	X
BASIL						
Dolce Fresca	213	X	X		X	X
New Everleaf Emerald Towers	213	X	X		X	X
Everleaf Genovese	213	X			X	X
New Newton	213	X	X		X	X
Purple Ruffles	213	X			X	X
Sweet Dani Lemon	213	X			X	X
DILL						
Fernleaf	213	X	X		X	X

* Compact variety - best-suited to home garden use.

**PLUG & PLAY WITH
ORNAMENTAL PEPPERS**

NEW FIRELIGHTER

With amazing colour at all stages, these pepper combos can be sold as soon as their fruit starts to show! See page 237.





PLUG & PLAY[®] COMBOS

ALL-SEED, ALL-PROVEN, ALL YOU NEED

All-new Plug & Play XXL selections enhance the lineup of easy, fresh and fun combos that deliver by combining premium perennials and annuals for great Summer and Autumn sales. After **internal and external trialing** in multiple regions, our combos only move into the lineup when they get two thumbs up from our customers. This is how we fulfill the promise of **easy, economical production; big retail shows and gardener-satisfying results.**

Find all the program details at panamseed.com/PlugandPlay



FUSEABLES®

PRECISION™ MULTI-PELLETS

Fuseables *"easy-sow, easy-grow"* Precision Multi-Pellets offer the only combo program from a single pellet. You'll grow and sell more consistent and better looking mixes with Fuseables Plug & Play Combos.



**Revolutionary
Fuseables Precision
Multi-Pellets...**



**flow right through
your seeder...**



**transform into
"easy-sow, easy-
grow" plugs...**



**to grow great-
looking, balanced
combos that sell!**



Order now from your preferred distributor

Fuseables Under The Sun

COOL WAVE® FUSEABLES SUNNY SKIES

Cool Wave Blue Skies Pansy &
Cool Wave Golden Yellow Pansy



EARLY SPRING



COOL WAVE FUSEABLES FLOWER DATE

Cool Wave Golden Yellow Pansy &
Cool Wave Purple Pansy



EARLY SPRING



FUSEABLES WINE COOLER

Sorbet® Midnight Glow Viola &
Clear Crystal® Purple Shades Alyssum



EARLY SPRING

Grow all these early Spring combos cool for best finish.

FUSEABLES SUNGLOW

Sorbet Lemon Chiffon Viola &
Sorbet Midnight Glow Viola



EARLY SPRING

FUSEABLES SUNSET BOULEVARD

Sorbet Lemon Chiffon Viola &
Sorbet Peach Melba Viola



EARLY SPRING

FUSEABLES BLUEBERRY LIME JAM

Sophistica® Lime Green Petunia & Dreams™ Midnight Petunia



SPRING

FUSEABLES LIME CORAL

Dreams Coral Morn Petunia & Sophistica Lime Bicolor Petunia



SPRING

FUSEABLES PLEASANTLY BLUE

Dreams Midnight Petunia & Daddy® Blue Petunia



SPRING

FUSEABLES UTOPIA

Blutopia® Bacopa & Snowtopia® Bacopa



SPRING

WAVE® FUSEABLES BLUE DAWN

Easy Wave® Rosy Dawn Petunia & Blutopia Bacopa



SPRING

WAVE FUSEABLES RISE N SHINE

Easy Wave Yellow Petunia & Easy Wave Rosy Dawn Petunia



SPRING

WAVE FUSEABLES SILK N SATIN

Shock Wave® Pink Shades Petunia & Snowtopia Bacopa



SPRING

WAVE FUSEABLES HEALING WATERS

Shock Wave Denim Petunia, Easy Wave Violet Petunia & Blutopia Bacopa



SPRING

WAVE FUSEABLES OOH LA LA

Easy Wave Burgundy Star Petunia, Easy Wave Neon Rose Petunia & Shock Wave Coconut Petunia



SPRING

FUSEABLES PARADISE ISLAND

Kabloom™ Yellow Calibrachoa, Kabloom Denim Calibrachoa & rose calibrachoa (not available separately).



SPRING

FUSEABLES TWISTED ARROWS

Blue Arrows Juncus & Juncus *effusus spiralis* (curly juncus)
NOTE: Supplied as original Fuseables clay multi-pellets.



SPRING/SUMMER

FUSEABLES TWISTED DART

Blue Dart Juncus & Juncus *effusus spiralis* (curly juncus)
NOTE: Supplied as original Fuseables clay multi-pellets.



SPRING/SUMMER

FUSEABLES UNDER THE SUN

Crimson Gold Coleus & Lime Delight Coleus - great for both sun and shade



SPRING/SUMMER

FUSEABLES CHOCOLATE SYMPHONY

Chocolate Mint Coleus & Lime Delight Coleus - an easy combo for shade



SPRING/SUMMER

PLUG & PLAY®

GROW YOUR BEST COMBOS FROM SEED-RAISED PLUGS!

Every Plug & Play seed combo is tested over and over to prove that it delivers unstoppable performance from bench to store to garden. Trialing in saleable sizes begins in our research greenhouses and in our outdoor Summer containers. But we don't stop there - every potential introduction heads out to commercial greenhouses and to gardens for real-life testing. It's only when our customers give the combos they've seen in action two thumbs up that they move into the lineup.

GOOD FOR GROWERS: EASY, ECONOMICAL PRODUCTION

- Superior, high-impact genetics plus recipe and culture support.
- Programmable finish times to hit store set dates.
- You're always in complete control of when to sow, grow and ship.

GOOD FOR RETAILERS: BIG RETAIL SHOWS = BIG SALES

- Ready-to-use designer blends.
- On-trend colours that sell.
- The perfect magnet for repeat shoppers!

GOOD FOR CONSUMERS: CHOICES FOR SPRING, SUMMER & AUTUMN

- Easy, grab 'n go gardens appeal to today's shopper.
- Lots of instant, long-lasting, multi-colour blooms.
- Balanced, attractive combos to enhance every décor.

Find recipes and planting diagrams for all the Plug & Play Combos at panamseed.com.



NEW Firelighter



With bright colours and early season flowering, these combos featuring Cool Wave pansies are the first in stores to grab shopper attention.

OCEAN BREEZES

Cool Wave Blue Skies Pansy, Cool Wave Purple Pansy & Cool Wave White Pansy



EARLY SPRING

ON A CLEAR DAY

Cool Wave Purple Pansy, Cool Wave White Pansy & Cool Wave Golden Yellow Pansy



EARLY SPRING

PURPLE SUNSET

Cool Wave Purple Pansy, Cool Wave Golden Yellow Pansy & Cool Wave Blue Skies Pansy



EARLY SPRING

YELLOW HEAVEN

Cool Wave Lemon Pansy, Cool Wave White Pansy & Cool Wave Golden Yellow Pansy



EARLY SPRING

Grow all these early Spring combos cool for best finish.



These beautiful, balanced combos feature Wave petunias, the most-asked-for flower brand! They're perfect for main-season programs and supported by Wave marketing and merchandising.

VERY VALENTINE

Easy Wave Pink Passion Petunia, Easy Wave White Petunia & Easy Wave Red Velour Petunia



SPRING

FLYING THE FLAG

Easy Wave Red Velour Petunia, Easy Wave White Petunia & Combo Blue Petunia



SPRING

SUBTLE PERFECTION

Easy Wave Pink Passion Petunia, Easy Wave Silver Petunia & Shock Wave Deep Purple Petunia



SPRING

MAD ABOUT RED

Easy Wave Red Velour Petunia & Easy Wave Yellow Petunia



SPRING

All varieties in each Plug & Play Combo must be transplanted at the same time in order to finish at the same time. Sow dates may vary.
NOTE: Individual varieties sold separately.

LEMON DREAM

Kabloom Yellow Calibrachoa,
Easy Wave Yellow Petunia &
21st Century White Phlox



SPRING



DUSK TO DAWN

Easy Wave Plum Vein Petunia &
Shock Wave Pink Vein Petunia

SPRING



LOVIN' IT

Easy Wave Yellow Petunia, Easy Wave Neon
Rose Petunia & Combo Blue Petunia

SPRING



ROYAL PASSION

Easy Wave Burgundy Velour Petunia, Easy Wave
Plum Vein Petunia & Combo Blue Petunia

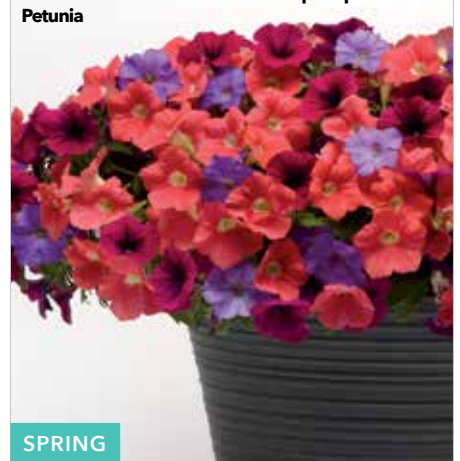
SPRING



FIRECRACKER

Shock Wave Coral Crush Petunia, Shock Wave
Denim Petunia & Shock Wave Deep Purple
Petunia

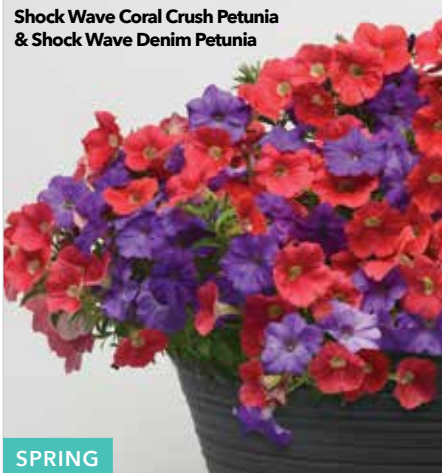
SPRING



SURFIN' SAFARI

Shock Wave Coral Crush Petunia
& Shock Wave Denim Petunia

SPRING



ROSY KISSES

Easy Wave Yellow Petunia, Easy Wave Rosy
Dawn Petunia & Shock Wave Deep Purple
Petunia

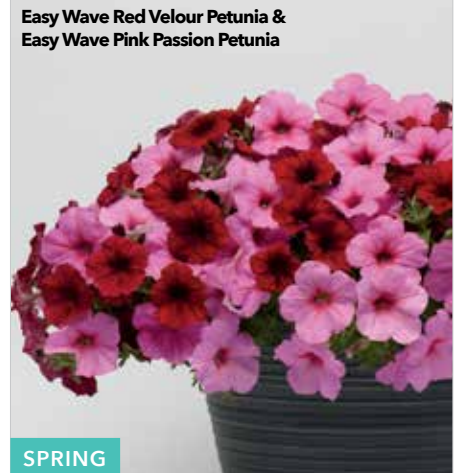
SPRING



SWEETHEART

Easy Wave Red Velour Petunia &
Easy Wave Pink Passion Petunia

SPRING



FLY ME TO THE MOON

Easy Wave Burgundy Velour Petunia, Easy Wave White Petunia & Easy Wave Neon Rose Petunia



SPRING

SEEING STARS

Easy Wave Burgundy Star Petunia & Easy Wave Neon Rose Petunia



SPRING

RAZZLE DAZZLE

NEW Kabloom Blue Calibrachoa, Easy Wave Pink Passion Petunia & Quartz XP Burgundy with Eye Verbena



SPRING

AFTER DARK

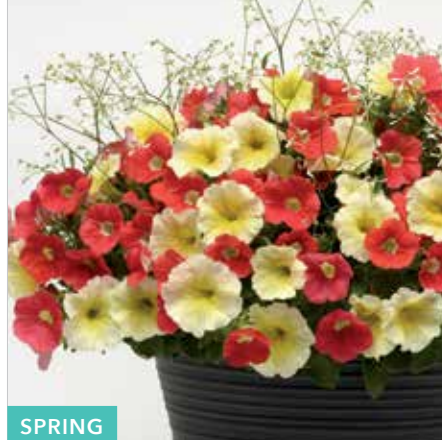
Easy Wave Burgundy Velour Petunia & Easy Wave Neon Rose Petunia



SPRING

CORAL LIGHTS

Easy Wave Yellow Petunia, Shock Wave Coral Crush Petunia & Glitz Euphorbia



SPRING

FIRE N NICE

Easy Wave Red Velour Petunia & Glitz Euphorbia



SPRING

ROYAL SPARKLER

Easy Wave Burgundy Velour Petunia, Easy Wave Silver Petunia & Glitz Euphorbia



SPRING

PUTTIN' ON THE PINK

Easy Wave Neon Rose Petunia & Glitz Euphorbia



SPRING

All varieties in each Plug & Play Combo must be transplanted at the same time in order to finish at the same time. Sow times may vary.
NOTE: Individual varieties sold separately.

WAVE PLUG & PLAY COMBOS

EVENING IN RIO

Easy Wave Violet Petunia &
Easy Wave Neon Rose Petunia



SPRING

BLUE HAWAII

Easy Wave Rosy Dawn Petunia &
Shock Wave Denim Petunia



SPRING

OPPOSITES ATTRACT

Easy Wave Violet Petunia &
Easy Wave Coral Reef Petunia



SPRING

TWINKLE TWINKLE

Easy Wave Burgundy Star Petunia &
Shock Wave Coconut Petunia



SPRING

O CANADA

Easy Wave Red Petunia &
Easy Wave White Petunia



SPRING

THE FLAG

Easy Wave Red Petunia,
Easy Wave White Petunia &
Easy Wave Blue Petunia



SPRING

BEACH PARTY

Shock Wave Denim Petunia &
Shock Wave Pink Shades Petunia



SPRING

COCO COLADA

Shock Wave Coconut Petunia &
Shock Wave Coral Crush Petunia



SPRING

RED, WHITE & BLUES

Shock Wave Coconut Petunia,
Shock Wave Denim Petunia &
Shock Wave Red Petunia



SPRING

Combine container and patio vegetables with easy-to-grow flowers like Wave petunias and French marigolds for practical and pretty combos that are good enough to eat!

ITALIAN BISTRO

Little Napoli Tomato,
SimplyHerbs™ Curled Parsley &
Easy Wave Red Velour Petunia



SPRING/SUMMER

LUNCH DATE

Patio Baby Eggplant,
SimplyHerbs™ Try Basil &
Bonanza™ Yellow French Marigold



SPRING/SUMMER

FOODIE BLUES

Patio Baby Eggplant, Dolce Fresca Basil &
Combo Blue Petunia



SPRING/SUMMER

CANTINA HEAT

Sweet Heat Pepper, Combo Blue Petunia &
Bonanza Yellow French Marigold



SPRING/SUMMER

All varieties in each Plug & Play Combo must be transplanted at the same time in order to finish at the same time. Sow times will vary.
NOTE: Individual varieties sold separately.

CHRISTMAS IN JULY

Lucky Star™ White Pentas & Lucky Star Dark Red Pentas



SUMMER

AIRBRUSH'D

Tattoo™ Raspberry Vinca, Titan™ Polka Dot Vinca & Titan Rose Halo Vinca



SUMMER

SHINING STARS

Lucky Star Lavender Pentas, Lucky Star Deep Pink Pentas & Lucky Star White Pentas



SUMMER

BERRY BURST

Titan Really Red Vinca, Tattoo Black Cherry Vinca & Titan Rose Halo Vinca



SUMMER

STAR BRIGHT

Lucky Star Dark Red Pentas, Lucky Star Deep Pink Pentas & Lucky Star Lavender Pentas



SUMMER

SUMMER SMOOTHIE

Valiant™ Orchid Vinca, Valiant Pure White Vinca & Valiant Burgundy Vinca



SUMMER

All varieties in each Plug & Play Combo must be transplanted at the same time in order to finish at the same time. Sow dates may vary. NOTE: Individual varieties sold separately.

These combos featuring popular and unique seed items like Serena® and Serenita® angelonia, Zahara® zinnia and Purple Prince alternanthera make a big statement at retail and on home patios. These standouts deliver end-cap or front-of-store appeal, with several offering built-in Wave recognition.

SEASIDE DELIGHT

Valiant Orchid Vinca & Serena Blue Angelonia



SUMMER

PEACH MELBA PARFAIT

Valiant Apricot Vinca, Serenita Pink Angelonia & Silver Falls Dichondra



SUMMER

SUMMER CANDY

Titan Really Red Vinca & Serena White Angelonia



SUMMER

INK'D

Tattoo Raspberry Vinca & Serena Blue Angelonia



SUMMER

POPPIN' IN THE SUN

NEW Kabloom Blue Calibrachoa & Kabloom Yellow Calibrachoa



SPRING

SUN JEWELS

Zahara Yellow Zinnia, Valiant Pure White Vinca & Purple Prince Alternanthera



SUMMER

BERRY SPARKLER

Serena Purple Angelonia, Titan Punch Vinca & Purple Flash Ornamental Pepper



SUMMER

YELLOW TAMBOURINE

Serena Blue Angelonia, Zahara Yellow Zinnia & Purple Flash Ornamental Pepper



SUMMER

CHERRY JAM

Chocolate Covered Cherry Premium Sun Coleus, Valiant Punch Vinca & Purple Prince Alternanthera



SUMMER

All varieties in each Plug & Play Combo must be transplanted at the same time in order to finish at the same time. Sow dates may vary. NOTE: Individual varieties sold separately.

NEW FOR 2020! Three bright, new ornamental pepper combos promise huge Summer through Autumn sales. These premium container combos love the heat and sun, and they deliver colour and interest from their early fruiting stage through Autumn.

NEW HOCUS POCUS

Santos Orange Ornamental Pepper & Hot Pops Purple Ornamental Pepper

AMAZING COLOUR AT ALL STAGES

These multicolour ornamental pepper plants can be sold when their fruit first starts to show - you don't have to wait for them to change from green to a sellable colour! This means they'll spend less time on the bench, and get to the store faster.



SUMMER/AUTUMN

NEW COLOR CARNIVAL

Wicked Ornamental Pepper & Santos Orange Ornamental Pepper



SUMMER/AUTUMN

NEW FIRELIGHTER

Blaze Ornamental Pepper & Hot Pops Purple Ornamental Pepper



SUMMER/AUTUMN

NEW FOR 2020! Dramatic good looks and predictable colour make these combos perfect for larger containers! Six new premium combos join our popular group combining first-year-flowering, mid-season perennials with annuals to make a big statement on home patios from Summer through Autumn.

NEW GOLDEN ERA

Double the Sun Coreopsis & Blue Spear Lavandula



SUMMER/AUTUMN

NEW SUN SEA AND ROSÉ

PowWow® Wild Berry Echinacea, Mesa™ Peach Gaillardia & Blue Spear Lavandula



SUMMER/AUTUMN

NEW FEELING FRISKY

NEW Madonna Leucanthemum, Jealousy Leycesteria & Mesa Red Gaillardia



SUMMER/AUTUMN

NEW PINK PURSUIT

PowWow White Echinacea, Jolt™ Pink Magic Interspecific Dianthus, Blue Spear Lavandula & ColorGrass® Festina Festuca



SUMMER/AUTUMN

All varieties in each Plug & Play Combo must be transplanted at the same time to finish at the same time. Sow times will vary. NOTE: Individual varieties sold separately

NEW DATE KNIGHT

PowWow White Echinacea, Starship™ Scarlet Lobelia, Blue Spear Lavandula & ColorGrass Festina Festuca



SUMMER/AUTUMN

NEW SUMMER LOVIN'

PowWow White Echinacea, Jolt Cherry Interspecific Dianthus & Starship Deep Rose Lobelia



SUMMER/AUTUMN

TUSCAN SUN

Starship Scarlet Lobelia, Mesa Bright Bicolor Gaillardia & Sirocco Anemanthele



SUMMER/AUTUMN

PARIS IN SPRINGTIME

Starship Deep Rose Lobelia & 'Cheyenne Spirit' Echinacea



SUMMER/AUTUMN



VERY VESUVIUS

Starship Scarlet Lobelia, Sunfire Coreopsis & Ellagance Purple Lavender



SUMMER/AUTUMN

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USE THE POWER OF GLOBAL RECOGNITION

The "stamp of approval" on these reliable, proven varieties assures landscapers and home gardeners that they are selecting and planting superior performers. Growers and retailers benefit from the added promotional efforts that these winners receive, both at their debut and for years to come.



NEW Madonna Leucanthemum *Fleuroselect Gold Medal*



NEW Wave Carmine Velour Spreading Petunia
All-America Selections National Winner

ALL-AMERICA SELECTIONS

- Angelonia Serenita Pink
- Basil Dolce Fresca
- Basil Purple Ruffles
- Basil Sweet Dani Lemon
- Coreopsis Early Sunrise
- Dianthus Ideal Select Violet
- Interspecific Dianthus Jolt Pink
- Dill Fernleaf
- Echinacea 'Cheyenne Spirit'
- Echinacea PowWow Wild Berry
- Eggplant Gretel
- Eggplant Hansel
- Gaillardia Mesa Yellow
- Gaura 'Sparkle White'
- Ornamental Millet Purple Majesty
- Ornamental Pepper Black Pearl
- Ornamental Pepper Chilly Chili
- Osteospermum Akila Daisy White
- Pepper Aji Rico
- Pepper Cajun Belle
- Pepper Mad Hatter
- Petunia Orchid Daddy
- Double Petunia Pirouette Purple
- Spreading Petunia Tidal Wave Red Velour
- Spreading Petunia Tidal Wave Silver
- New** Spreading Petunia Wave Carmine Velour
- Spreading Petunia Wave Lavender
- Spreading Petunia Wave Purple Classic
- Snapdragon Rocket Bronze
- Snapdragon Rocket Golden
- Snapdragon Rocket Orchid
- Snapdragon Rocket Red
- Snapdragon Rocket Rose Shades
- Snapdragon Rocket White
- Tomato Candyland Red
- Tomato Midnight Snack
- Vinca Jams 'N Jellies Blackberry
- Vinca Pacifica XP Burgundy Halo
- Zinnia Double Zahara Cherry
- Zinnia Double Zahara Fire
- Zinnia Zahara Starlight Rose

ALL-AMERICA SELECTIONS REGIONAL

- Eggplant Patio Baby

FLEUROSELECT GOLD MEDAL

- Alyssum Snow Crystals
- Armeria Ballerina Red
- Armeria Ballerina White
- Celosia Bombay Purple
- Coreopsis Early Sunrise
- Cosmos Sonata White
- Echinacea 'Cheyenne Spirit'
- Gaillardia Mesa Yellow
- Gaura 'Sparkle White'
- Lavandula Bandera Purple
- Lavandula Ellagance Purple
- Lavandula Ellagance Sky

- New** Leucanthemum Madonna
- Nemesia Sundrops Mixture
- Osteospermum Akila Daisy White
- Penstemon Carillo Red
- Spreading Petunia Tidal Wave Red Velour
- Spreading Petunia Wave Lavender
- Phlox Grammy Pink & White
- Viola Sorbet XP Delft Blue
- Zinnia Double Zahara Fire
- Zinnia Zahara Sunburst

FLEUROSELECT QUALITY MARK

- Alyssum Easter Bonnet Violet
- Aquilegia Clementine Mixture
- Aquilegia Winky Single Red-White
- Aquilegia Winky Single Rose-Rose
- Asclepias Silky Gold
- Bellis Bellissima Rose
- Bellis Bellissima Rose Bicolor
- Bellis Bellissima White
- Coreopsis Sunfire
- Cosmos Sonata Carmine
- Cosmos Sonata Pink
- Cosmos Petunia Pink Blush
- Dahlia Figaro Orange Shades
- Dahlia Figaro Red Shades
- Dahlia Figaro Violet Shades
- Dahlia Figaro Yellow Shades
- Dianthus Ideal Select Rose
- Gomphrena QIS Carmine
- Lavandula Ellagance Ice
- Lobelia Regatta Blue Splash
- Lobelia Regatta Rose
- Lobelia Riviera Midnight Blue
- Lobelia Riviera Rose
- Lobelia Riviera Sky Blue
- French Marigold Gate Orange
- Nepeta Pink Cat
- Ornamental Pepper Black Pearl
- Spreading Petunia Tidal Wave Silver
- Phlox Promise Peach
- Phlox Promise Rose
- Phlox Promise White
- Salvia Patio Deep Blue
- Salvia Patio Sky Blue
- Scabiosa Pink Diamonds
- Vinca Pacifica XP Burgundy Halo

FLEUROSELECT NOVELTY

- Alyssum Clear Crystal White
- Aquilegia Clementine Rose
- Aquilegia Winky Single Red-White
- Aquilegia Winky Single Early Sky Blue
- Armeria Ballerina Red
- Armeria Ballerina White
- Bellis Bellissima Red
- Bellis Bellissima Rose
- Bellis Bellissima Rose Bicolor
- Bellis Bellissima White
- Celosia Kosmo Purple Red

- Coreopsis Double the Sun
- Coreopsis Sunfire
- Cosmos Antiquity
- Cosmos Sonata Carmine
- Cosmos Sonata Pink
- Cosmos Sonata Pink Blush
- Dahlia Figaro Orange Shades
- Dahlia Figaro Red Shades
- Dahlia Figaro Violet Shades
- Digitalis Dalmatian Purple
- Gaura Sparkle White
- Heuchera Melting Fire
- Iberis Whiteout
- New** Lavandula Bandera Deep Purple
- New** Lavandula Bandera Deep Rose
- Lavandula Bandera Purple
- Lavandula Ellagance Purple
- Lavandula Ellagance Sky
- Lobelia Regatta Blue Splash
- Lobelia Regatta Rose
- Lobelia Riviera Midnight Blue
- Lobelia Riviera White
- French Marigold Bonanza Deep Orange
- Penstemon Carillo Red
- Ornamental Pepper Black Pearl
- Perovskia Blue Steel
- Spreading Petunia Tidal Wave Red Velour
- Phlox Promise Peach
- Salvia Lighthouse Purple
- Salvia New Dimension Blue
- New** Salvia New Dimension Rose
- Salvia Patio Deep Blue
- Salvia Patio Sky Blue
- New** Salvia Salvatore Blue
- Scabiosa Pink Diamonds
- Silene Starry Dreams
- Verbena Quartz XP Purple
- Vinca Pacifica XP Burgundy Halo
- Zinnia Double Zahara Bright Orange
- Zinnia Double Zahara Cherry
- Zinnia Double Zahara Fire
- Zinnia Double Zahara White
- Zinnia Zahara Starlight Rose
- Zinnia Zahara Sunburst

ROYAL HORTICULTURAL SOCIETY AWARD OF GARDEN MERIT

- Alyssum Easter Bonnet Lavender
- Alyssum Easter Bonnet Violet
- Aquilegia Swan Burgundy And White
- Aquilegia Swan Yellow
- 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
- New Guinea Impatiens Divine Violet

U.S. UTILITY PATENTS

US 7,087,819

Ornamental Pepper Chilly Chili
Ornamental Pepper Medusa

US 7,393,995

Ornamental Pepper Chilly Chili
Ornamental Pepper Medusa
Ornamental Pepper Sangria

US 7,642,436

Fuseables® Petunia Blueberry Lime Jam
Fuseables® Petunia Lime Coral
Petunia Debonair™ Black Cherry
Petunia Debonair™ Dusty Rose
Petunia Debonair™ Lime Green
Petunia Sophistica® Antique Shades
Petunia Sophistica® Blackberry
Petunia Sophistica® Lime Bicolor
Petunia Sophistica® Lime Green
Petunia Sophistica® Twilight
Spreading Petunia Easy Wave® Berry Velour
Spreading Petunia Easy Wave® Burgundy Velour
Spreading Petunia Easy Wave® Red Velour
Spreading Petunia Tidal Wave® Red Velour

US 7,696,416

Ornamental Pepper Sangria

US 7,915,504

Alyssum Clear Crystal® Lavender Shades
Alyssum Clear Crystal® Mixture
Alyssum Clear Crystal® Purple Shades
Alyssum Clear Crystal® White

US 7,982,110

Echinacea Cheyenne Spirit
Echinacea PowWow® Wild Berry

US 9,301,465

Ornamental Pepper Hot Pops Purple

US 9,307,712

Ornamental Pepper Hot Pops Yellow

US 9,320,212

French Marigold Hot Pak™ Gold
French Marigold Hot Pak™ Mixture

US 9,326,464

French Marigold Hot Pak™ Harmony
French Marigold Hot Pak™ Mixture

US 9,326,465

French Marigold Hot Pak™ Mixture
French Marigold Hot Pak™ Yellow

US 9,326,466

French Marigold Hot Pak™ Mixture
French Marigold Hot Pak™ Spry

US 9,326,467

French Marigold Hot Pak™ Mixture
French Marigold Hot Pak™ Orange

US 9,326,468

French Marigold Hot Pak™ Flame
French Marigold Hot Pak™ Mixture

US 9,451,747

Vinca Valiant™ Mixture
Vinca Valiant™ Pure White

US 9,451,748

Vinca Valiant™ Burgundy
Vinca Valiant™ Mixture

US 9,451,749

Vinca Valiant™ Apricot
Vinca Valiant™ Mixture

US 9,451,750

Vinca Valiant™ Orchid

US 9,451,751

Vinca Valiant™ Mixture
Vinca Valiant™ Punch

US 9,451,752

Vinca Valiant™ Lilac
Vinca Valiant™ Mixture

U.S. UTILITY PATENTS APPLIED FOR

Impatiens Beacon™ Bright Red
Impatiens Beacon™ Coral
Impatiens Beacon™ Orange
Impatiens Beacon™ Salmon
Impatiens Beacon™ Violet Shades
Impatiens Beacon™ White
Impatiens Beacon™ Red White Mixture
Impatiens Beacon™ Select Mixture
French Marigold Fireball
French Marigold Strawberry Blonde
Pentas Glitterati™ Purple Star
Vinca Titan™ Dark Red
Vinca Titan™ Really Red

U.S. PLANT PATENTS

PP 26,516

Calibrachoa Kabloom™ Yellow

U.S. PLANT VARIETY PROTECTIONS

Celosia Kosmo Pink - 200400022
Coleus, Premium Shade Kong® Red - 200500015
Coleus, Premium Shade Kong® Rose - 200500017
Coleus, Premium Shade Kong® Salmon Pink - 200900035
Erysimum Citrona® Orange - 200600167
Erysimum Citrona® Yellow - 200600168
Helenium Dakota Gold - 200600009
Lobelia Regatta Lilac Splash - 200600188
Matthiola Katz Ruby - 201200438
Myosotis Mon Amie Blue - 200800070
Ornamental Pepper Black Pearl - 200500020
Ornamental Pepper Medusa - 200000140
Salvia interspecific Big Blue - 201700218
Vinca Jams 'N Jellies™ Blackberry - 201100526
Vinca Mediterranean Lilac - 9800182
Vinca Mediterranean XP Dark Rose - 200900043
Vinca Mediterranean XP Hot Rose - 200900084
Vinca Mediterranean XP Peach - 200900080
Vinca Mediterranean XP Red - 200900081
Vinca Mediterranean XP Strawberry - 200900083
Vinca Mediterranean XP White - 200900053
Vinca Pacifica XP Apricot - 9800181
Vinca Pacifica XP Burgundy Halo - 200700272
Vinca Pacifica XP Dark Red - 200600189
Vinca Pacifica XP Magenta Halo - 200500216
Vinca Pacifica XP Punch - 9400248

Vinca Pacifica XP Really Red - 200600190
Vinca Pacifica XP Rose Halo - 200500218
Zinnia Double Zahara™ Cherry - 201600027
Zinnia Double Zahara™ Fire - 201600032
Zinnia Double Zahara™ Yellow - 201600028
Zinnia Zahara® Cherry - 201600029
Zinnia Zahara® Fire - 201000090
Zinnia Zahara® Raspberry - 201500215
Zinnia Zahara® Red - 201600030
Zinnia Zahara® White - 201400297
Zinnia Zahara® Yellow - 201500214
Zinnia Zahara® XL Pink - 201200482
Zinnia Zahara® XL White - 201200485
Zinnia Zahara® XL Yellow - 201200483

U.S. PLANT VARIETY PROTECTIONS APPLIED FOR

Coreopsis SunKiss
Cuphea Pink Shimmer
French Marigold Bonanza™ Bolero
French Marigold Bonanza™ Deep Orange
French Marigold Flamenco
Ornamental Oregano Kirigami
Vinca Tattoo™ Black Cherry
Vinca Tattoo™ Papaya
Vinca Tattoo™ Raspberry
Vinca Tattoo™ Tangerine
Zinnia Double Zahara™ Raspberry Ripple
Zinnia Double Zahara™ Salmon

EUROPEAN COMMUNITY PLANT BREEDER'S RIGHTS

Celosia Neo™ Gold - 46508
Celosia Neo™ Orange - 44055
Celosia Neo™ Pink - 43694
Celosia Neo™ Red - 46509
Celosia Neo™ Rose - 43693
Coreopsis SunKiss - 46544
Echinacea PowWow® Wild Berry - 35233
Heuchera Melting Fire - 20557
Lavandula Ellagance Pink - 40059
Lavandula Lavance Deep Purple - 48822
Lycyesteria Jealousy - 37273
Salvia interspecific Big Blue - 49559

EUROPEAN COMMUNITY PLANT BREEDER'S RIGHTS APPLIED FOR

Lavandula Avignon Early Blue
Lavandula Blue Spear

EUROPEAN COMMUNITY UTILITY PATENTS APPLIED FOR

French Marigold Fireball
French Marigold Strawberry Blonde
Fuseables® Petunia Blueberry Lime Jam
Fuseables® Petunia Lime Coral
Petunia Debonair™ Black Cherry
Petunia Debonair™ Dusty Rose
Petunia Debonair™ Lime Green
Petunia Sophistica® Antique Shades
Petunia Sophistica® Blackberry
Petunia Sophistica® Lime Bicolor
Petunia Sophistica® Lime Green
Petunia Sophistica® Twilight
Spreading Petunia Easy Wave® Berry Velour
Spreading Petunia Easy Wave® Burgundy Velour
Spreading Petunia Easy Wave® Red Velour
Spreading Petunia Tidal Wave® Red Velour

ACCEPTANCE OF TERMS

These terms and conditions shall govern orders for Goods placed with Seller. Purchaser acknowledges that these terms and conditions and Seller's proposal, if any, constitute the entire agreement between Seller and Purchaser and supersede any prior agreements and representations. Any prior or contemporaneous promises, agreements, negotiations or representations whether oral or written or created the custom, usage or course of dealing are also superseded by these terms and conditions. No modification of these terms and conditions shall be effective unless in writing signed by Seller. Placement of the order shall constitute Purchaser's acceptance of these terms and conditions. All orders are subject to acceptance by Seller at our corporate office. Any different or additional terms in any documents from Purchaser are objected to and rejected, are deemed to materially alter these terms, and will not become part of any contract between Seller and Purchaser.

PRICING

Prices and availability are subject to change without notice. Although Seller tries to assure accuracy, it shall not be held responsible for typographical or other errors in the price list. Purchaser's price is determined by referring to the product price and deducting any discount for which Purchaser may qualify. Please contact your sales representative for more information.

TERMS

All payments must be received before Goods are shipped unless otherwise agreed to in writing by Seller. Payment terms can be seen on your Order Confirmation or at the appropriate Terms & Conditions page at panamseed.com for North American, European and International credit-approved customers. A 2% per month finance charge (24% annual rate) will be added to all past due balances at the end of each month. Seller has no obligation to ship any Goods until payment in full is received.

MINIMUM ORDERS

The minimum quantity listed in the price list for each variety is the minimum order for that variety. Seller reserves the right to fill orders using pre-packaged inventory when available.

FREIGHT & HANDLING CHARGES, INSPECTION, DAMAGED GOODS

(a) The freight and handling charge on Purchaser's invoice covers shipment of the Goods to Purchaser's destination. Seller will pay to return damaged goods, for replacement Goods or provide Purchaser with a credit for damaged Goods if the steps listed in Section (b) below are followed. PURCHASER WILL NOT REFUSE TO RETURN DAMAGED OR DEFECTIVE GOODS, OR THE RIGHT TO FILE A CLAIM IS LOST AND PURCHASER WILL STILL BE LIABLE FOR THE MATERIAL AND THE FREIGHT.

(b) When Purchaser receives shipment, it shall immediately: 1) count all cartons; 2) inspect all cartons for external damage; 3) check for open or resealed cartons; 4) note any damages, shortages, open or resealed cartons on the delivery receipt; the carrier's representative must also sign the receipt; and 5) open all boxes immediately and inspect for damage, including, but not limited to, material shortages. PURCHASER MUST NOTIFY SELLER WITHIN TWO (2) BUSINESS DAYS IF A SHIPMENT IS

DAMAGED by calling its Customer Service Representative to report the damage and receive details on what is needed to file a claim. The Goods shall be deemed accepted by the Purchaser on the earlier of (a) notice of acceptance to Seller, or (b) ten (10) days after delivery. Any claims for shortage, non-delivery, damage or defect which would reasonably be discoverable in the course of such inspection shall be waived unless Purchaser notifies Seller in writing within ten (10) days after delivery of the goods to which the claim relates.

PACKAGING FEES

All orders will be filled in bulk and/or predetermined packet sizes unless special packaging instructions are given. If special packaging is requested, a packaging fee will apply and additional time may be required to complete the order. Purchaser shall contact Customer Service if it requires additional details.

CUSTOM SEED TREATMENTS

If a custom treatment is requested, a \$25 (U.S. Dollars) fee per batch will apply and additional time may be needed to complete the order.

PHYTOSANITARY CERTIFICATES CHARGE

Depending on the Goods ordered by Purchaser, and the location of the Purchaser, Phytosanitary Certificates may be required to comply with government regulations. If the shipment requires Phytosanitary Certificates, an additional cost will be charged.

DELIVERY DATES

Please indicate the required ship date when the order is being placed. No orders can be accepted without a requested ship date. All shipping and delivery dates provided by the Seller are approximate.

DELAYS, SHORTAGES & SUBSTITUTIONS

Seller shall not be responsible for delays in delivery or for losses resulting from such delays. Seller reserves the right to make partial shipment. Seller will not be liable for any delay in performing or for partial or complete failure to perform hereunder if such delay or failure is due to fire, explosion, flood, Act of God, force majeure, accident, war, intervention of governmental authorities, strikes, labor disputes, material shortages, transportation delays, any act or omission of Purchaser, its agents or employees or any party retained by, through or under the control of Purchaser, or any other cause similar or dissimilar which is beyond Seller's reasonable control.

INSURANCE

Seller does not insure shipments via Air Mail, but insures all other shipments in transit, in commercially reasonable amounts.

SHIPPING

Any shipment outside of North America will be charged normal carrier rates.

RETURNS

No Goods may be returned without first obtaining written authorization. Authorized returns will only be considered if they are in original, unopened Seller packages. All returns are subject to a 15% service charge.

No credit or replacement will be given for Goods returned after nine (9) months from the ship date.

Upon receiving authorization, returns can be shipped to:

PanAmerican Seed
Attn: Returns
622 Town Road
West Chicago, Illinois USA 60185-2698

SEED COUNT

All seed counts given are approximate quantities due to variation based on a lot by lot comparison. Seed counts may also vary widely between colors and series.

NOTICE REGARDING SEED-BORNE DISEASES

Seller makes no representation regarding the freedom from seed-borne diseases of the seed sold and disclaims any liability relating to such diseases, whether previously known to exist or not identified until such seed is grown.

RESERVATION OF OWNERSHIP

In the event of bankruptcy, products delivered by the Seller remain the property of Seller until the Purchaser has paid the purchase price amount. This reservation of ownership is also extended to claims that Seller may obtain towards Purchaser on account of the Purchaser's failure to meet their obligations to Sale.

LIMITATION OF WARRANTY

Seller warrants, to the extent required by law, that Goods conform to the description appearing in Seller's catalog and on container labels, within recognized tolerances. THE FOREGOING WARRANTIES ARE IN LIEU OF AND EXCLUDE ALL OTHER WARRANTIES NOT EXPRESSLY SET FORTH HEREIN, WHETHER EXPRESSED OR IMPLIED BY OPERATION OF LAW OR OTHERWISE, INCLUDING, BUT NOT LIMITED TO, ANY IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, TITLE AND NON-INFRINGEMENT.

LIMITATION OF REMEDY

PURCHASER'S SOLE AND EXCLUSIVE REMEDY SHALL BE REFUND OF THE PURCHASE PRICE. SELLER'S LIABILITY, WHETHER FOR BREACH OF CONTRACT, BREACH OF WARRANTY, NEGLIGENCE, PRODUCTS LIABILITY OR ANY OTHER THEORY OF LIABILITY, IS LIMITED TO THE AMOUNT OF THE PURCHASE PRICE. PURCHASER AGREES THAT IN NO EVENT, REGARDLESS OF THE FORM OF LEGAL ACTION OR THE THEORY OF RECOVERY, WILL SELLER BE LIABLE FOR CONSEQUENTIAL, INCIDENTAL, SPECIAL, INDIRECT OR PUNITIVE DAMAGES INCLUDING, BUT NOT LIMITED TO, LOSS OF PROFITS OR REVENUES.

USE RESTRICTION

Merchandise is not intended for sale to large-scale commercial growers of herbs or vegetables. Use, transfer and/or acquisition of seed constitutes acceptance of a limited right to use the seed solely to grow a single crop for food, feed, processing or ornamental purposes. No other use is permitted. Any transfer of seed must be accompanied by this use restriction.

MANDATORY ARBITRATION

ANY CLAIM WHICH PURCHASER MAY HAVE AGAINST SELLER ARISING OUT OF OR RELATING TO THE SALE OF THE GOODS HEREUNDER MUST BE BROUGHT, IF AT ALL, WITHIN TWELVE (12) MONTHS OF THE DELIVERY OF THE GOODS WHICH ARE THE SUBJECT OF THE CLAIM AND SHALL BE SETTLED BY BINDING ARBITRATION IN ACCORDANCE WITH THE COMMERCIAL ARBITRATION RULES OF THE AMERICAN ARBITRATION ASSOCIATION, SAID ARBITRATION TO BE VENUED IN COOK OR DUPAGE COUNTIES, ILLINOIS.

GOVERNING LAW, JURISDICTION & VENUE

The laws of the State of Illinois, including but not limited to the Uniform Commercial Code as adopted therein, shall govern all matters arising out of or relating to Seller's sale of merchandise. ANY DISPUTE NOT SUBJECT TO ARBITRATION AND ANY ACTION TO ENFORCE AN ARBITRATION AWARD ARISING OUT OF OR RELATING TO THE SALE OF MERCHANDISE HEREUNDER SHALL BE MAINTAINED IN THE STATE OR FEDERAL COURTS LOCATED IN DUPAGE OR COOK COUNTIES, ILLINOIS, AND PURCHASER SUBMITS TO THE JURISDICTION OF AND VENUE IN SAID COURTS.

INDEMNITY

By accepting the Goods, Purchaser agrees to indemnify, defend and hold harmless Seller, its affiliates, successors and assigns from and against any claim or liabilities, claims, demands, damages, losses and expense (including attorney's fees) asserted by any or all transferees of such Goods or users of the products of such Goods (i) arising from any act or omission of Customer or its employees or agents, or (ii) who were not notified by Purchaser in writing of Limitation of Warranty, Limitation of Remedy, Mandatory Arbitration, Governing Law, Jurisdiction and Venue, and Notice Regarding Seed-Borne Diseases, in language substantially equivalent to that contained in these Terms and Conditions of Sale.

TRADEMARKS

Trademarks are and shall remain the property of Ball Horticultural Company, unless otherwise indicated. Nothing herein shall grant Purchaser a license to use any such trademark.

SALE LIMITATIONS

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

ALL SHIPMENTS MUST BE SHIPPED IN COMPLIANCE WITH THE FOREIGN CORRUPT PRACTICES ACT AND THE UK BRIBERY ACT.

IMAGES

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WAVE / 2



ANNUALS / 12



PERENNIALS / 134



POTTED PLANTS / 158



CUT FLOWERS / 176



HANDPICKED / 200



PLUG & PLAY / 220

A

Abutilon 16
 Acmella See Spilanthes
 Ageratum 16
 Alternanthera 16
 Alyssum 17
 Anemanthele 43
 Anemone 178
 Angelonia 14
 Antirrhinum See Snapdragon
 Aquilegia 136
 Arabis 138
 Armeria 138
 Arugula 216
 Asclepias 178
 Aster 18
 Award Winners 241

B

Bacopa 18
 Basil 213, 214
 Begonia 18
 Bellis 138
 Business Terms 243

C

Calibrachoa 26
 Campanula 140, 161, 179
 Capsicum 162
 Carex 42, 45
 Carthamus 178
 Catharanthus See Vinca
 Celosia 28, 160, 180
 Coleus 29
 ColorGrass 42
 Cool Wave Pansy 10
 Coreopsis 139
 Corn, Ornamental 34
 Corynephorus 43
 Cosmos 32
 Cress 216
 Crossandra 33
 Cucumber 202
 Cuphea 33
 Customer Service & Sales Teams 240
 Cyclamen 34

D

Dahlia 39
 Delphinium 140
 Dianthus 35, 142, 183
 Dichondra 39
 Digitalis 141
 Dill 213, 214
 Dusty Miller 41

E

Echinacea 143
 Edible Potted Pepper 162
 Eggplant 203
 Erysimum 41
 Euphorbia 41
 Eustoma See Lisianthus
 Exacum 168

F

Festuca 44
 Fiber Optic Grass See Isolepis
 Fragaria See Strawberry
 Fuseables 222

G

Gaillardia 145
 Gaura 146
 Gazania 40, 46
 Geranium 46
 Gerbera 169
 Gomphrena 46
 Grasses 42
 Gypsophila 146

H

Heirloom Marriage Tomato 209
 Helenium 47
 Helianthus See Sunflower
 Helichrysum 47
 Heuchera 146
 Hibiscus 47, 147
 Hypoestes 174

- I**
- Iberis 147
 - Impatiens..... 48
 - Iresine 55
 - Isolepis 42
 - Isotoma 55
 - Ivy Geranium 46
- J**
- Juncus 43, 44, 45
- K**
- Kale 216
 - Koeleria 42
- L**
- Laurentia See Isotoma
 - Lavandula 148
 - Lettuce & Greens 216
 - Leucanthemum 151
 - Leycesteria 55
 - Limonium 185
 - Linaria 55
 - Lisianthus 56, 174, 185
 - Lobelia 56, 152
 - Lobularia See Alyssum
 - Luzula 43
 - Lycopersicum See Tomato
- M**
- Marigold. 59
 - Matricaria 188
 - Matthiola 188, Also see Stock
 - Myosotis 153
- N**
- Nemesia 65
 - Nepeta 153
 - New Guinea Impatiens 54
 - Nierembergia 65
- O**
- Oregano 214
 - Ornamental Corn 34
 - Ornamental Millet 66
 - Ornamental Mint 65
 - Ornamental Oregano 65
 - Ornamental Pepper 81, 164
 - Osteospermum 67
- P**
- Pansy 10, 68
 - Papaver..... 153
 - Parsley 214
 - Penstemon 154
 - Pentas 78
 - Pepper 204
 - Perovskia 155
 - Petunia 2, 82
 - Phlox 97
 - Plant Protection 242
- R**
- Rosemary 214
 - Rudbeckia 154
 - Ruellia 104
- S**
- Sage 214
 - Sales & Customer Service Teams 240
 - Salvia 105, 155, 156
 - Saxifraga 157
 - Scabiosa 157
 - Scutellaria 104
 - Silene 157
 - SimplyHerbs..... 214
 - SimplySalad..... 216
 - Snapdragon 108, 192
 - Spilanthes 110
 - Squash 212
 - Statice See Limonium
 - Stipa 44
 - Stock 110, Also see Matthiola
 - Strawberry 212
 - Sunflower 175, 197
 - Sutera See Bacopa
 - Sweet William See Dianthus
- T**
- Tagetes See Marigold
 - Talinum 111
 - Tanacetum See Matricaria
 - Terms & Conditions 243
 - Thunbergia 111
 - Thyme..... 214
 - Thymophylla 112
 - Tomato 206
 - Torenia 112
 - Trachelium 198
- V**
- Verbascum 157
 - Verbena 113, 157
 - Veronica 157
 - Vinca 114
 - Viola 121
- W**
- Wave Petunias 2
- Z**
- Zinnia 128
 - Zucchini 212

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