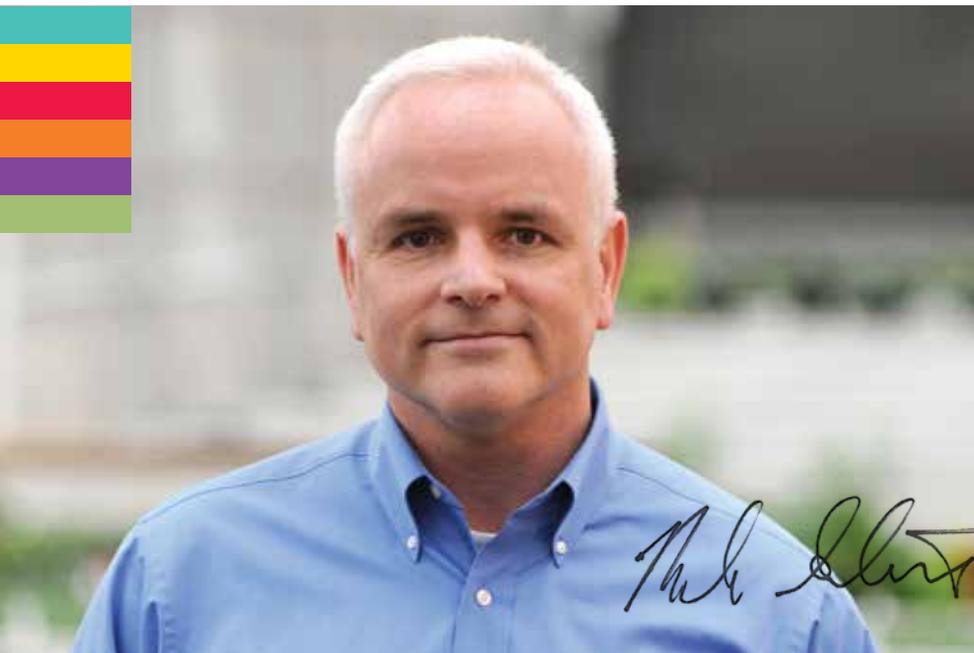


PanAmerican Seed®
KieftSeed



CATALOGUE 2018/2019





Promising you stability in today's evolving world

Welcome! We're happy to share our outstanding variety lineup with you. From A to Z, every variety is proven to perform and supplied with the best seed quality.

As our industry, the consumer and the world change at high speed, every member of the PanAmerican Seed team has renewed our commitment to keeping your business relevant, competitive and successful.

Fresh, focused breeding. Our team is going full force to develop products that hit the mark on just about every issue you can name. One exciting example is continuous-color Lucky Star Pentas - never again will growers, retailers, landscapers and gardeners worry about their pentas cycling out of color. Turn the page and get to know all of the breeders and product managers who turn your wish lists into reality.

Upgraded production infrastructure. Our research and production locations have been revamped to bring you even better quality seed. We've strengthened our focus on every process that affects quality: added a dedicated Quality Assessment Manager, expanded expertise and increased efficiency in every facet of production, improved our facilities and more.

Expanded variety assortment. Along with many new products, we're excited to welcome Ex-Plant to the PanAmerican Seed team. This dynamic breeder of top-notch pot plants gives you access to an even broader lineup of easy, on-trend "Gateway to Gardening" varieties.

Your partners at PanAmerican Seed and Kieft Seed will continue to bring you solid solutions that support you today and well into the future!

Mark Short
Global Sales Director
PanAmerican Seed

USE THE POWER OF SEED

SAFE

Order, store and schedule without risk.

EFFICIENT

Slots right into your mechanized production.

AVAILABLE

Get what you need, when you need it.

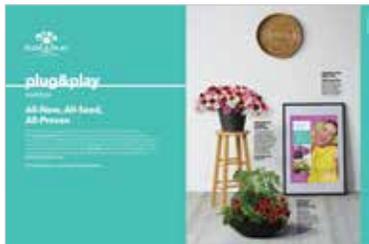
ECONOMICAL

High-performance results with less labour, lower cost.

PanAmerican Seed®

KieftSeed

6



PLUG & PLAY

All-New, All-Seed, All-Proven

Fresh and relevant combo collection is proven to perform, proven to sell.

NEW Very Valentine, page 15
NEW Italian Bistro, page 24

28



ANNUALS

Classics & Cutting Edge

We're proud to lead our industry in giving you and your customers the best that seed can offer.

NEW Cool Wave® Raspberry Pansy, page 78
NEW Lucky Star Deep Pink Pentas, page 90
Kabloom® Yellow Calibrachoa, page 38

142



PERENNIALS

Our Lineup Goes All-Out

You can always rely on Kieft Seed varieties for best-in-class genetics backed by world-class service.

NEW Rockin' Red Dianthus, page 149
'Cheyenne Spirit' Echinacea, page 150

162



POT PLANTS

On Target to Hit the Trends

Our expanded collection highlights outstanding varieties from two key players...now one great team: PanAmerican Seed and Ex-Plant.

NEW Acapulco® Red Capsicum, page 166
Revolution Bicolor Red Lemon Gerbera, page 170

176



CUT FLOWERS

Confidence in Cuts

Innovative breeding and reliable seed availability join forces to assure you always deliver success-focused products.

Katz Matthiola, page 189
Potomac® Yellow Snapdragon, page 194

198



HANDPICKED

Fresh Ideas

Whether you supply gardeners or fresh-market farmers, our high-quality vegetables and herbs stand out with novelty, nutrition and quality.

Little Napoli Tomato, page 203
SimplyHerbs Basil, page 210

Say hello to our front cover stars!



OPENING NEW DOORS

Enjoy thousands of varieties from PanAmerican Seed and Kieft Seed - every one proven as good for the grower AND good for the gardener!

NEW Cool Wave® Raspberry Pansy, page 78
NEW Lucky Star Dark Red Pentas, page 90
Mesa Bright Bicolor Gaillardia, page 152
SimplyHerbs 'Try Basil', page 210



Jason Jandrew

DIRECTOR OF
PLANT BREEDING



Scott Rusch

PRODUCT
DEVELOPMENT
DIRECTOR

The world's best team!

We're very proud of the accomplishments of the PanAmerican Seed breeding and product development teams. Without hesitation, we can say they are the best in the business. By building such a terrific pool of talent and skill, we are able to bring enduring and innovative varieties to market. Our investment in this amazing group of people is an investment in your business, too.

Thanks to the collaborations of our breeders, product managers and every other member of PanAmerican Seed, we are able to deliver the highest-quality varieties in the world.



Lemon Dream, page 23



Mary O'Connor

PRODUCT MANAGER

Plug & Play Combos

Mary's experience in design, as well as her extensive horticultural knowledge in assessing what will grow well together, make the new Plug & Play combo program a "must have" if you're in the business of growing mixed containers.

NEW Megawatt Red Bronze Leaf Begonia



Lynne
Knosher
BREEDER



Han
Sasbrink
BREEDER



Bart
Sneek
**PRODUCT
MANAGER**

Cool Wave® Golden Yellow Pansy



Peter
Stefany
BREEDER



Troy
Thorup
BREEDER



Reid
Snyder
**PRODUCT
MANAGER**

NEW Lucky Star Deep Pink Pentas



Jason
Jandrew
BREEDER



Birdie
Lenard-Fountain
**PRODUCT
MANAGER**

Easy Wave® Pink Passion Petunia



Ping
Ren
BREEDER



Lisa
Lacy
**PRODUCT
MANAGER**

NEW Rockin' Red Dianthus



Linda
Laughner
BREEDER



Reid
Snyder
**PRODUCT
MANAGER**

NEW Bandera Pink Lavender



Martijn
Baijens
BREEDER



Cor
de Jong
**PRODUCT
MANAGER**

bringing you the newest products

NEW Acapulco® Red Capsicum



Susanne
Villemoes
BREEDER



Carsten
Leth
PRODUCT
MANAGER

NEW Revolution Red with Light Eye Improved Gerbera



Gijsbert
Lekkerkerk
BREEDER



Han
Sasbrink
BREEDER



Bart Sneek
PRODUCT
MANAGER

Amazon Neon Cherry Dianthus



Linda
Laughner
BREEDER



Reid
Snyder
PRODUCT
MANAGER

Potomac Yellow Snapdragon



Jenn
Evans
BREEDER



Linda
Laughner
BREEDER



Reid
Snyder
PRODUCT
MANAGER

Chocolate Sprinkles Tomato



Jim
Irvine
BREEDER



Cheni
Filios
PRODUCT
MANAGER

NEW Aji Rico Pepper



Ellen
Leue
BREEDER



Cheni
Filios
PRODUCT
MANAGER

Creating the next superstars

Meet the rest of our breeding team. These are the people who are hard at work developing high-demand product traits that take your programs to the next level - innovations like superior bench or garden performance, shorter crop times, unique colours, weather tolerance and disease resistance.



JinJoo Bae

BREEDER



Ruud Brinkkemper

BREEDER



Nipha Chuenpom (Oil)

BREEDER



Jeroen Gitzels

BREEDER



Ockert Greyvenstein

BREEDER



Mario Guillen

BREEDER



Pawornwan Jeenrat (Few)

BREEDER



Christa Keivit

BREEDER



Jolanda Krassenburg

BREEDER



Edison Quiros

BREEDER



Rolando Solano

BREEDER



Scott Trees

BREEDER



Blair Winner

BREEDER



Grace Kim

ASSISTANT

BREEDER



plug&play

combos

All-New, All-Seed, All-Proven

The Plug & Play combo program debuted during Summer 2016 to wide acclaim. This **fresh and relevant** collection is built upon internal and external testing in multiple regions. Trialing in saleable sizes begins at the PanAmerican Seed research greenhouses and in outdoor Summer containers. Then every potential introduction heads out to commercial greenhouses and to real-life gardens. This **fully vetted** collection of 60+ Plug & Play combos – including 9 newcomers – promises easy, economical production; big retail shows and **gardener-satisfying results**.

Find all the details at panamseed.com/PlugandPlay



NEW WAVE IN COMBOS... PASS IT ON!

On-trend colours... virtually care-free... fill planters with easy spreading colour all season. Rev up your mix program with The Authentic Trailing Petunia!

(Very Valentine, page 15)



TRENDING: EASY. FRESH. FUN.

NEW Plug & Play combos serve up grab 'n go gardens that give today's consumer plenty of time to enjoy life!



PROVEN TO PERFORM, PROVEN TO SELL

Deliver epic satisfaction in every planter! Each Plug & Play combo is tested from bench to store to garden.

(Italian Bistro, page 24)

PLUG & PLAY FUSEABLES®

VALUE

FUSEABLES

"Easy-sow, easy-grow" Precision Multi-Pellets offer the only combo program from a single pellet.
p. 10

BETTER

WAVE® FUSEABLES

Packs a double punch - beautiful, balanced combos featuring the most-asked-for flower brand!
p. 12

PREMIUM

PREMIUM ANNUAL FUSEABLES

Our proven single-input Fuseables open up a new category, with Kabloom® seed calibrachoa components.
p. 13

PLUG & PLAY COMBOS

BETTER

WAVE PLUG & PLAY COMBOS

Grow good-looking, well-balanced, all-Wave mixes in one pot...without a royalty! (Formerly Wave Medleys)
p. 14

PREMIUM

PLUG & PLAY COMBOS WITH PREMIUM ANNUALS, VEGETABLES & HERBS

Dramatic good looks and dependable performance meet or beat their vegetative counterparts. Several of these combos include well-known Wave petunias for extra recognition in the store.

Annals p. 21
Vegetables & Herbs p. 24

PREMIUM

PLUG & PLAY COMBOS WITH PERENNIALS

Set yourself apart with proven, programmable combos featuring first-year-flowering, mid-season varieties.
p. 25

MOVE SEAMLESSLY FROM PLANT TO PERFECT

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 real-life gardens for intense 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 options from value priced to upscale designer blends.
- On-trend colours that sell.
- The perfect magnet for repeat shoppers!

GOOD FOR CONSUMERS: CHOICES FOR SPRING, SUMMER & FALL

- 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.

key grower tips

Start out right!

The first step in defining the Plug & Play combination pot starts on the planting line. Follow the recipes and planting diagrams for best success. Plug size, number and planting position is key.

PLUG SIZE: Every Plug & Play recipe takes each ingredient's growth rate and flower timing into consideration. Larger inputs are used when necessary to obtain the best balance of growth and flowering.

PLUG NUMBER: It is important to use the right ratio of inputs, just as with vegetative intermingled combos. The correct number of plugs per component leads to the best balanced combination finish.

PLUG POSITIONING: Plant your plugs halfway between the middle of the pot and the rim. A tight circle of plugs is key to getting the intermingled look desired in a multi-plant combination. Planting at the rim results in a "clumpy," less intermingled look. All varieties in each Plug & Play combo are transplanted at the same time in order to finish at the same time. Sow times may vary.

NOTE: In multi-species combos, shear Kabloom plugs before transplanting.

Easy does it!

Next up is PGR application, specifically for multi-species combinations. We recommend the following for the best-toned and fully mixed multi-species combination finish.

PGRS*: Daminozide spray at 2,500 to 5,000 ppm (depending on your conditions) 1 week after transplant, followed by a second daminozide spray 7 to 10 days later. Daminozide will allow the axils to expand, versus a paclobutrazol treatment which can lock up axillary branching. The result is controlled growth early, while still allowing good branching for the combination's development.

When plants grow to the rim and begin to fill the pot, switch to a repeated low rate paclobutrazol drench at 1 to 2 ppm (depending on your conditions). Go easy - too high a rate for the paclobutrazol drench can stop the non-petunia components and lead to a bad mix result.

**Rates are based on trials in the northern U.S.*



NEW

Fire N Nice p. 22

8 in./20 cm



Transplant



After 3 weeks



After 6 weeks

10 in./25 cm



Transplant



After 3 weeks



After 6 weeks



Find all the details
at [panamseed.com/
PlugandPlay](http://panamseed.com/PlugandPlay)

VALUE

FUSEABLES PRECISION MULTI- PELLETS

**MORE
CONSISTENT &
BETTER-LOOKING
MIXES!**

Patented seed
technology - it's the only
combo program from a
single pellet!

Single & multi-species
choices

Grow your "Good" price
point



Sunset Boulevard



**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!**

These easy-to-produce, two to three-variety mixes are ideal for colour bowls, hanging baskets and large patio containers.

Bacopa Utopia Blutopia® and Snowtopia® bacopa.

Coleus Chocolate Symphony Chocolate Mint and Lime Delight coleus make an easy combo for the shade.

Coleus Under the Sun Crimson Gold and Lime Delight coleus. Great for both sun and shade.

Petunia Blueberry Lime Jam Sophistica® Lime Green and Dreams™ Midnight petunias.

Petunia Lime Coral Dreams Coral Morn and Sophistica Lime Bicolor petunias.

Petunia Pleasantly Blue Dreams Midnight and Daddy® Blue petunias.

Viola Alyssum Wine Cooler Cool-season combo of Sorbet® Midnight Glow viola and Clear Crystal® Purple Shades alyssum.

Viola Sunset Boulevard Early Spring combo of Sorbet® Lemon Chiffon and Peach Melba.

Viola Sunglow Early Spring or Fall combo of Sorbet Lemon Chiffon and Midnight Glow.

Juncus Twisted Arrows Blue Arrows Juncus and *Juncus effusus spiralis* (curly juncus)
NOTE: Supplied as original Fuseables clay multi-pellets.

Juncus Twisted Dart Blue Dart Juncus and *Juncus effusus spiralis* (curly juncus)
NOTE: Supplied as original Fuseables clay multi-pellets.





Chocolate Symphony



Under The Sun



Utopia



Blueberry Lime Jam



Wine Cooler



Lime Coral



Pleasantly Blue



Sunglow



Sunset Boulevard



Twisted Arrows



Twisted Dart

BETTER

WAVE FUSEABLES PRECISION MULTI- PELLETS

**BOOST THE VALUE
OF YOUR COMBOS
WITH WAVE**

World's best-known
petunia brand +
patented Fuseables seed
technology

Supported by
Wave marketing &
merchandising

Perfect for main-season
"Better" programs



wave
PETUNIAS



Rise N Shine



Blue Dawn



Healing Waters



Ooh La La



Rise N Shine



Silk N Satin



Strawberry Wine

Wave Petunia Blue Dawn

Easy Wave® Rosy Dawn petunias with Blutopia bacopa.

Wave Petunia Healing Waters

Shock Wave® Denim and Easy Wave Violet petunias with large-flowered blue bacopa.

Wave Petunia Ooh La La

Easy Wave Burgundy Star, Easy Wave Neon Rose and Shock Wave Coconut petunias.

Wave Petunia Rise N Shine

Easy Wave Yellow and Rosy Dawn. This second all-Wave Fuseables is a great Spring item.

Wave Petunia Silk N Satin

Shock Wave Pink Shades petunia with Snowtopia bacopa.

Wave Petunia Strawberry Wine Easy Wave Shell Pink, Dreams Red and Daddy Red petunias.

PREMIUM ANNUAL FUSEABLES

ENJOY THE EFFICIENCY & EASE OF SINGLE-PELLET INPUTS WITH PREMIUM RESULTS!

Debuts with the first Fuseables to contain the first seed calibrachoa, Kabloom®

Upscale baskets and pots make a big retail statement

Revolutionary Fuseables Precision Multi-Pellet form

Calibrachoa Paradise Island

Includes Kabloom Yellow plus denim and rose (not available separately).



wave® plug & play combos

BETTER

WAVE PLUG & PLAY COMBOS

**EASY,
MULTI-COLOUR
MAGIC IN
ONE POT!**

Easy to make...easier
to sell with recognized
Wave branding

Designer look for pots &
baskets

Target to your "Better"
programs for Spring &
Summer

NOTE:
Individual varieties sold
separately.

wave
PETUNIAS



Lovin' It

PLUG & PLAY
Your Instant Garden

wave® plug & play combos

NEW FLYING THE FLAG

Easy Wave Red Velour, Easy Wave White & Petunia Combo Blue



Transplant to finish: 7 weeks*

Variety	Seeds per Cell	Plug Size	Plants per Pot		Critical Daylength
			10 in./25 cm	12 in./30 cm	
A Easy Wave Red Velour Petunia	1	288	3	4	11 hrs.
B Easy Wave White Petunia	1	288	2	3	10 hrs.
C Petunia Combo Blue	1	288	2	3	10.5 hrs.

NEW VERY VALENTINE

Easy Wave Red Velour, Easy Wave Pink Passion & Easy Wave White



Transplant to finish: 7 weeks*

Variety	Seeds per Cell	Plug Size	Plants per Pot			Critical Daylength
			8 in./20 cm	10 in./25 cm	12 in./30 cm	
A Easy Wave Red Velour Petunia	1	288	1	2	3	11 hrs.
B Easy Wave Pink Passion Petunia	1	288	1	2	3	10 hrs.
C Easy Wave White Petunia	1	288	1	2	3	10 hrs.

NEW SWEETHEART

Easy Wave Red Velour & Easy Wave Pink Passion



Transplant to finish: 7 weeks*

Variety	Seeds per Cell	Plug Size	Plants per Pot			Critical Daylength
			8 in./20 cm	10 in./25 cm	12 in./30 cm	
A Easy Wave Red Velour Petunia	1	288	2	3	4	11 hrs.
B Easy Wave Pink Passion Petunia	1	288	2	3	4	10 hrs.

NEW MAD ABOUT RED

Easy Wave Red Velour & Easy Wave Yellow



Transplant to finish: 7 weeks*

Variety	Seeds per Cell	Plug Size	Plants per Pot			Critical Daylength
			8 in./20 cm	10 in./25 cm	12 in./30 cm	
A Easy Wave Red Velour Petunia	1	288	2	3	4	11 hrs.
B Easy Wave Yellow Petunia	1	288	2	3	4	10 hrs.

* Timing assumes the use of daylength extension or lighted plugs where needed, and active growing temperatures.

wave® plug & play combos

SUBTLE PERFECTION

Easy Wave Pink Passion, Easy Wave Silver & Shock Wave Deep Purple



8 in./20 cm



10 in./25 cm



12 in./30 cm



Transplant to finish: 7 weeks*

	Variety	Seeds per Cell	Plug Size	Plants per Pot			Critical Daylength
				8 in./20 cm	10 in./25 cm	12 in./30 cm	
A	Easy Wave Pink Passion	1	288	1	2	3	10 hrs.
B	Easy Wave Silver	1	288	1	2	3	10 hrs.
C	Shock Wave Deep Purple	1	288	1	2	3	10.5 hrs.

LOVIN' IT

Easy Wave Yellow, Easy Wave Neon Rose & Petunia Combo Blue



8 in./20 cm



10 in./25 cm



12 in./30 cm



Transplant to finish: 7 weeks*

	Variety	Seeds per Cell	Plug Size	Plants per Pot			Critical Daylength
				8 in./20 cm	10 in./25 cm	12 in./30 cm	
A	Easy Wave Yellow	1	288	1	2	3	10 hrs.
B	Easy Wave Neon Rose	1	288	1	2	3	10 hrs.
C	Petunia Combo Blue	1	288	1	2	3	10.5 hrs.

ROSY KISSES

Easy Wave Yellow, Easy Wave Rosy Dawn & Shock Wave Deep Purple



8 in./20 cm



10 in./25 cm



12 in./30 cm



Transplant to finish: 7 weeks*

	Variety	Seeds per Cell	Plug Size	Plants per Pot			Critical Daylength
				8 in./20 cm	10 in./25 cm	12 in./30 cm	
A	Easy Wave Yellow	1	288	1	2	3	10 hrs.
B	Easy Wave Rosy Dawn	1	288	1	2	3	10 hrs.
C	Shock Wave Deep Purple	1	288	1	2	3	10.5 hrs.

FIRECRACKER

Shock Wave Coral Crush, Denim & Deep Purple



8 in./20 cm



10 in./25 cm



12 in./30 cm



Transplant to finish: 7 weeks*

	Variety	Seeds per Cell	Plug Size	Plants per Pot			Critical Daylength
				8 in./20 cm	10 in./25 cm	12 in./30 cm	
A	Shock Wave Coral Crush	1	288	1	2	3	10 hrs.
B	Shock Wave Denim	1	288	1	2	3	10 hrs.
C	Shock Wave Deep Purple	1	288	1	2	3	10.5 hrs.

wave® plug & play combos

ROYAL PASSION

Easy Wave Burgundy Velour, Easy Wave Plum Vein & Petunia Combo Blue



Transplant to finish: 7 weeks*

Variety	Seeds per Cell	Plug Size	Plants per Pot			Critical Daylength
			8 in./20 cm	10 in./25 cm	12 in./30 cm	
A Easy Wave Burgundy Velour	1	288	1	2	3	10.5 hrs.
B Easy Wave Plum Vein	1	288	1	2	3	11 hrs.
C Petunia Combo Blue	1	288	1	2	3	10.5 hrs.

FLY ME TO THE MOON

Easy Wave Burgundy Velour, White & Neon Rose



Transplant to finish: 7 weeks*

Variety	Seeds per Cell	Plug Size	Plants per Pot			Critical Daylength
			8 in./20 cm	10 in./25 cm	12 in./30 cm	
A Easy Wave Burgundy Velour	1	288	1	2	3	10.5 hrs.
B Easy Wave White	1	288	1	2	3	10 hrs.
C Easy Wave Neon Rose	1	288	1	2	3	10 hrs.

DUSK TO DAWN

Easy Wave Plum Vein & Shock Wave Pink Vein



Transplant to finish: 7 weeks*

Variety	Seeds per Cell	Plug Size	Plants per Pot			Critical Daylength
			8 in./20 cm	10 in./25 cm	12 in./30 cm	
A Easy Wave Plum Vein	1	288	2	3	4	11 hrs.
B Shock Wave Pink Vein	1	288	2	3	4	10.5 hrs.

O CANADA

Easy Wave Red & White



Transplant to finish: 7 weeks*

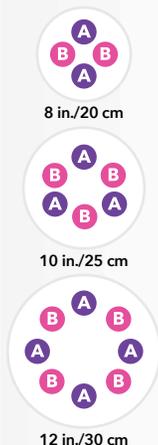
Variety	Seeds per Cell	Plug Size	Plants per Pot			Critical Daylength
			8 in./20 cm	10 in./25 cm	12 in./30 cm	
A Easy Wave Red	1	288	2	3	4	10 hrs.
B Easy Wave White	1	288	2	3	4	10 hrs.

* Timing assumes the use of daylength extension or lighted plugs where needed, and active growing temperatures.

wave® plug & play combos

BEACH PARTY

Shock Wave Denim & Pink Shades



Transplant to finish: 7 weeks*

	Variety	Seeds per Cell	Plug Size	Plants per Pot			Critical Daylength
				8 in./20 cm	10 in./25 cm	12 in./30 cm	
A	Shock Wave Denim	1	288	2	3	4	10 hrs.
B	Shock Wave Pink Shades	1	288	2	3	4	10 hrs.

BLUE HAWAII

Easy Wave Rosy Dawn & Shock Wave Denim

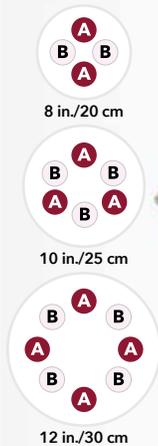


Transplant to finish: 7 weeks*

	Variety	Seeds per Cell	Plug Size	Plants per Pot			Critical Daylength
				8 in./20 cm	10 in./25 cm	12 in./30 cm	
A	Easy Wave Rosy Dawn	1	288	2	3	4	10 hrs.
B	Shock Wave Denim	1	288	2	3	4	10 hrs.

TWINKLE TWINKLE

Easy Wave Burgundy Star & Shock Wave Coconut



Transplant to finish: 7 weeks*

	Variety	Seeds per Cell	Plug Size	Plants per Pot			Critical Daylength
				8 in./20 cm	10 in./25 cm	12 in./30 cm	
A	Easy Wave Burgundy Star	1	288	2	3	4	10 hrs.
B	Shock Wave Coconut	1	288	2	3	4	10.5 hrs.

OPPOSITES ATTRACT

Easy Wave Violet & Coral Reef



Transplant to finish: 7 weeks*

	Variety	Seeds per Cell	Plug Size	Plants per Pot			Critical Daylength
				8 in./20 cm	10 in./25 cm	12 in./30 cm	
A	Easy Wave Violet	1	288	2	3	4	10 hrs.
B	Easy Wave Coral Reef	1	288	2	3	4	10 hrs.

wave® plug & play combos

EVENING IN RIO

Easy Wave Violet & Neon Rose



8 in./20 cm



10 in./25 cm



12 in./30 cm



Transplant to finish: 7 weeks*

	Variety	Seeds per Cell	Plug Size	Plants per Pot			Critical Daylength
				8 in./20 cm	10 in./25 cm	12 in./30 cm	
A	Easy Wave Violet	1	288	2	3	4	10 hrs.
B	Easy Wave Neon Rose	1	288	2	3	4	10 hrs.

COCO COLADA

Shock Wave Coconut & Coral Crush



8 in./20 cm



10 in./25 cm



12 in./30 cm



Transplant to finish: 7 weeks*

	Variety	Seeds per Cell	Plug Size	Plants per Pot			Critical Daylength
				8 in./20 cm	10 in./25 cm	12 in./30 cm	
A	Shock Wave Coconut	1	288	2	3	4	10.5 hrs.
B	Shock Wave Coral Crush	1	288	2	3	4	10 hrs.

RED, WHITE & BLUES

Shock Wave Coconut, Denim & Red



8 in./20 cm



10 in./25 cm



12 in./30 cm



Transplant to finish: 7 weeks*

	Variety	Seeds per Cell	Plug Size	Plants per Pot			Critical Daylength
				8 in./20 cm	10 in./25 cm	12 in./30 cm	
A	Shock Wave Coconut	1	288	1	2	3	10.5 hrs.
B	Shock Wave Denim	1	288	1	2	3	10 hrs.
C	Shock Wave Red	1	288	1	2	3	10 hrs.

THE FLAG

Easy Wave Red, White & Blue



8 in./20 cm



10 in./25 cm



12 in./30 cm



Transplant to finish: 7 weeks*

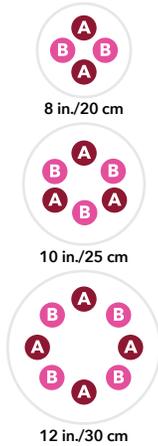
	Variety	Seeds per Cell	Plug Size	Plants per Pot			Critical Daylength
				8 in./20 cm	10 in./25 cm	12 in./30 cm	
A	Easy Wave Red	1	288	1	2	3	10 hrs.
B	Easy Wave White	1	288	1	2	3	10 hrs.
C	Easy Wave Blue	1	288	1	2	3	10.5 hrs.

* Timing assumes the use of daylength extension or lighted plugs where needed, and active growing temperatures.

wave® plug & play combos

AFTER DARK

Easy Wave Burgundy Velour & Neon Rose



Transplant to finish: 7 weeks*

	Variety	Seeds per Cell	Plug Size	Plants per Pot			Critical Daylength
				8 in./20 cm	10 in./25 cm	12 in./30 cm	
A	Easy Wave Burgundy Velour	1	288	2	3	4	10.5 hrs.
B	Easy Wave Neon Rose	1	288	2	3	4	10 hrs.

SEEING STARS

Easy Wave Burgundy Star & Neon Rose

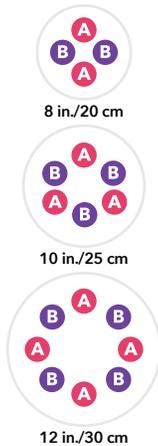


Transplant to finish: 7 weeks*

	Variety	Seeds per Cell	Plug Size	Plants per Pot			Critical Daylength
				8 in./20 cm	10 in./25 cm	12 in./30 cm	
A	Easy Wave Burgundy Star	1	288	2	3	4	10 hrs.
B	Easy Wave Neon Rose	1	288	2	3	4	10 hrs.

SURFIN' SAFARI

Shock Wave Coral Crush & Denim



Transplant to finish: 7 weeks*

	Variety	Seeds per Cell	Plug Size	Plants per Pot			Critical Daylength
				8 in./20 cm	10 in./25 cm	12 in./30 cm	
A	Shock Wave Coral Crush	1	288	2	3	4	10 hrs.
B	Shock Wave Denim	1	288	2	3	4	10 hrs.

SPREADING PETUNIA ☀️

Petunia x hybrida

New Combo Blue F1

Height: 6 to 12 in./15 to 30 cm

Spread: 2.5 to 3.25 ft./76 cm to 1 m

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

Seed supplied as: Pelleted

Plug crop time: 5 to 6 weeks

Transplant to finish: See individual Plug & Play combo recipe.

- Chosen specifically for its habit and performance as a combination component.
- Large, velvety deep blue flowers on a mounding, well-branched plant.
- Timing is similar to Easy Wave Blue, with a minimum daylength requirement of 10.5 hours.



NEW
Combo Blue Petunia

*Timing assumes the use of daylength extension or lighted plugs where needed, and active growing temperatures.

PREMIUM

PLUG & PLAY COMBOS WITH PREMIUM ANNUALS, VEGETABLES & HERBS

**DRAMATIC
UPSCALE COMBOS
ARE NOW IN EASY
REACH!**

WOW your décor-conscious consumers

Popular & unique seed items make a statement at retail & on home patios

"Premium" standouts deliver endcap or front-of-store appeal, with several offering built-in Wave recognition

NOTE:

Individual varieties sold separately.

IMPORTANT:

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.



Poppin' in the Sun

plug & play combos

NEW FIRE N NICE

Easy Wave Red Velour Petunia & Glitz Euphorbia



10 in./25 cm



12 in./30 cm



Transplant to finish: 7 weeks*

	Variety	Seeds per Cell	Plug Size	Plants per Pot		Critical Daylength
				10 in./25 cm	12 in./30 cm	
A	Easy Wave Red Velour Petunia	1	288	3	4	11 hrs.
B	Glitz Euphorbia	1	128	3	4	Neutral

PUTTIN' ON THE PINK

Easy Wave Neon Rose Petunia & Glitz Euphorbia



10 in./25 cm



12 in./30 cm



Transplant to finish: 7 weeks*

	Variety	Seeds per Cell	Plug Size	Plants per Pot	
				10 in./25 cm	12 in./30 cm
A	Easy Wave Neon Rose Petunia	1	288	3	4
B	Glitz Euphorbia	1	128	4	5

ROYAL SPARKLER

Easy Wave Burgundy Velour & Easy Wave Silver Petunias & Glitz Euphorbia



10 in./25 cm



12 in./30 cm



Transplant to finish: 8 weeks*

	Variety	Seeds per Cell	Plug Size	Plants per Pot	
				10 in./25 cm	12 in./30 cm
A	Easy Wave Burgundy Velour Petunia	1	288	2	3
B	Easy Wave Silver Petunia	1	288	2	3
C	Glitz Euphorbia	1	128	3	4

CORAL LIGHTS

Easy Wave Yellow & Shock Wave Coral Crush Petunias & Glitz Euphorbia



10 in./25 cm



12 in./30 cm



Transplant to finish: 8 weeks*

	Variety	Seeds per Cell	Plug Size	Plants per Pot	
				10 in./25 cm	12 in./30 cm
A	Easy Wave Yellow Petunia	1	288	2	3
B	Shock Wave Coral Crush Petunia	1	288	2	3
C	Glitz Euphorbia	1	128	3	4

IMPORTANT: 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.

plug & play combos

RAZZLE DAZZLE

Kabloom Deep Blue Calibrachoa, Easy Wave Pink Passion Petunia & Quartz XP Burgundy With Eye Verbena



10 in./25 cm



12 in./30 cm



Transplant to finish: 8 weeks*

Variety	Seeds per Cell	Plug Size	Plants per Pot	
			10 in./25 cm	12 in./30 cm
A Kabloom Deep Blue Calibrachoa**	2	128	2	3
B Easy Wave Pink Passion Petunia	1	288	2	3
C Quartz XP Burgundy With Eye Verbena	1	288	3	4

**Shear plug.

POPPIN' IN THE SUN

Kabloom Deep Blue & Yellow Calibrachoa



10 in./25 cm



12 in./30 cm



Transplant to finish: 9 weeks

Variety	Seeds per Cell	Plug Size	Plants per Pot	
			10 in./25 cm	12 in./30 cm
A Kabloom Deep Blue Calibrachoa	1	288	3	4
B Kabloom Yellow Calibrachoa	1	288	3	4

LEMON DREAM

Kabloom Yellow Calibrachoa, Easy Wave Yellow Petunia & 21st Century White Phlox



10 in./25 cm



12 in./30 cm



Transplant to finish: 8 weeks*

Variety	Seeds per Cell	Plug Size	Plants per Pot	
			10 in./25 cm	12 in./30 cm
A Kabloom Yellow Calibrachoa**	2	128	2	3
B Easy Wave Yellow Petunia	1	288	2	3
C 21st Century White Phlox	1	288	3	4

**Shear plug.

*Timing assumes the use of daylength extension or lighted plugs where needed, and active growing temperatures.

plug & play combos

NEW ITALIAN BISTRO

Little Napoli Tomato, SimplyHerbs Curled Parsley & Easy Wave Red Velour Petunia



12 in./30 cm



Transplant to finish:
2 to 3 weeks from step up**

	Variety	Seeds per Cell	Step up Size	Plants per Pot
				12 in./30 cm
A	Little Napoli Tomato	1	50 liner	1
B	SimplyHerbs Curled Parsley	1 PMPL	50 liner	1
C	Easy Wave Red Velour Petunia	1	50 liner	2

NEW LUNCH DATE

Patio Baby Eggplant, SimplyHerbs 'Try Basil' & Bonanza Yellow French Marigold



12 in./30 cm



Transplant to finish:
2 to 3 weeks from step up**

	Variety	Seeds per Cell	Step up Size	Plants per Pot
				12 in./30 cm
A	Patio Baby Eggplant	1	50 liner	1
B	SimplyHerbs 'Try Basil'	1 PMPL	50 liner	1
C	Bonanza Yellow French Marigold	1	50 liner	2

GROW YOUR SALES WITH NEW PLUG & PLAY COMBOS WITH VEGETABLES AND HERBS

NEW FOODIE BLUES

Patio Baby Eggplant, Dolce Fresca Basil & Petunia Combo Blue



12 in./30 cm



Transplant to finish:
2 to 3 weeks from step up**

	Variety	Seeds per Cell	Step up Size	Plants per Pot
				12 in./30 cm
A	Patio Baby Eggplant	1	50 liner	1
B	Dolce Fresca Basil	3	50 liner	1
C	Petunia Combo Blue	1	50 liner	2

NEW CANTINA HEAT

Sweet Heat Pepper, Petunia Combo Blue & Bonanza Yellow French Marigold



12 in./30 cm



Transplant to finish:
2 to 3 weeks from step up**

	Variety	Seeds per Cell	Step up Size	Plants per Pot
				12 in./30 cm
A	Sweet Heat Pepper	1	50 liner	1
B	Petunia Combo Blue	1	50 liner	2
C	Bonanza Yellow French Marigold	1	50 liner	2

IMPORTANT: 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.

** Timing assumes correct daylength and active growing temperatures; finish for late Spring/Summer

PREMIUM

PLUG & PLAY COMBOS WITH PERENNIALS

**SET YOURSELF
APART IN THE
MIXED COMBO
MARKET**

Perfect for Summer
& Autumn sales

All-perennial combos
feature first-year-
flowering, mid-season
varieties

Elegant & textured
containers deserve a
"Premium" price

NOTE:
Individual varieties sold
separately.

IMPORTANT:
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.



KieftSeed



Very Vesuvius

plug & play combos

TUSCAN SUN

Starship Scarlet Lobelia, Mesa Bright Bicolor Gaillardia & Sirocco Anemanthele



☀ Finished in a 10 to 12-in. /25 to 30-cm container

	Variety	Multi-Sown Plug	Plug/Liner Time (Weeks)	Plug/Liner Sizes	Transplant to First Flower (Weeks)	Plant Height	USDA Zones
A	Starship Scarlet Lobelia	Yes	7-9	128-72	12-16	12-24 in./30-61 cm	6-10
B	Mesa Bright Bicolor Gaillardia	Yes	6-7	128-72	11-13	11-13 in./28-33 cm	5-10
C	Sirocco Anemanthele	1 multi-pellet	7-8	72	11-13	12-14 in./30-36 cm	7-11

ROMAN HOLIDAY

Mesa Bright Bicolor & Mesa Yellow Gaillardia & Sirocco Anemanthele



☀ Finished in a 10 to 12-in. /25 to 30-cm container

	Variety	Multi-Sown Plug	Plug/Liner Time (Weeks)	Plug/Liner Sizes	Transplant to First Flower (Weeks)	Plant Height	USDA Zones
A	Mesa Bright Bicolor Gaillardia	Yes	6-7	128-72	11-13	11-13 in./28-33 cm	5-10
B	Mesa Yellow Gaillardia*	Yes	6-7	128-72	11-13	11-13 in./28-33 cm	5-10
C	Sirocco Anemanthele	1 multi-pellet	7-8	72	11-13	12-14 in./30-36 cm	7-11

* All-America Selections National Winner

BALI HAI

Early Sunrise Coreopsis & Ellagance Purple Lavender



☀ Finished in a 10 to 12-in. /25 to 30-cm container

	Variety	Multi-Sown Plug	Plug/Liner Time (Weeks)	Plug/Liner Sizes	Transplant to First Flower (Weeks)	Plant Height	USDA Zones
A	Early Sunrise Coreopsis*	Yes	7-8	128-72	11-13	12-14 in./30-36 cm	4-9
B	Ellagance Purple Lavender	Yes	6-7	128-72	11-13	10-12 in./25-30 in.	5-8

* All-America Selections National Winner

PARIS IN SPRINGTIME

Starship Deep Rose Lobelia & 'Cheyenne Spirit' Echinacea



☀ Finished in a 10 to 12-in. /25 to 30-cm container

	Variety	Multi-Sown Plug	Plug/Liner Time (Weeks)	Plug/Liner Sizes	Transplant to First Flower (Weeks)	Plant Height	USDA Zones
A	Starship Deep Rose Lobelia	Yes	8-10	128-72	13-17	12-24 in./30-61 cm	6-10
B	'Cheyenne Spirit' Echinacea*	Yes	5-6	128-72	13-17	18-24 in./46-61 cm	4-10

* All-America Selections National Winner

IMPORTANT: 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.

plug & play combos

VERY VESUVIUS

Starship Scarlet Lobelia, Sunfire Coreopsis & Ellagance Purple Lavender



☀️ Finished in a 10 to 12-in. /25 to 30-cm container

	Variety	Multi-Sown Plug	Plug/Liner Time (Weeks)	Plug/Liner Sizes	Transplant to First Flower (Weeks)	Plant Height	USDA Zones
A	Starship Scarlet Lobelia	Yes	7-9	128-72	12-16	12-24 in./30-61 cm	6-10
B	Sunfire Coreopsis	Yes	7-8	128-72	10-12	10-12 in./25-30 cm	4-9
C	Ellagance Purple Lavender	Yes	6-7	128-72	11-13	10-12 in./25-30 cm	5-8

AMAZON RAIN FOREST

Blue Arrows Juncus, Byzantina Silver Stachys & Silver Falls Dichondra



☀️ Finished in a 10 to 12-in. /25 to 30-cm container

	Variety	Multi-Sown Plug	Plug/Liner Time (Weeks)	Plug/Liner Sizes	Transplant to First Flower (Weeks)	Plant Height	USDA Zones
A	Blue Arrows Juncus	1 multi-pellet	7-8	128-72	10-12	16-20 in./41-51 cm	5-9
B	Byzantina Silver Stachys	Yes	6-7	128-72	9-11	8-10 in./20-25 cm	4-9
C	Silver Falls Dichondra	Yes	6-7	128-72	11-13	3-5 in./8-13 cm	Annual

PASSION FOR POMPEII

Starship Scarlet Lobelia & 'Cheyenne Spirit' Echinacea



☀️ Finished in a 10 to 12-in. /25 to 30-cm container

	Variety	Multi-Sown Plug	Plug/Liner Time (Weeks)	Plug/Liner Sizes	Transplant to First Flower (Weeks)	Plant Height	USDA Zones
A	Starship Deep Rose Lobelia	Yes	7-9	128-72	12-16	12-24 in./30-61 cm	6-10
B	'Cheyenne Spirit' Echinacea*	Yes	5-6	128-72	13-17	18-24 in./46-61 cm	4-10

* All-America Selections National Winner

SYDNEY SPARKLER

'Sparkle White' Gaura & PowWow® Wild Berry Echinacea



☀️ Finished in a 10 to 12-in. /25 to 30-cm container

	Variety	Multi-Sown Plug	Plug/Liner Time (Weeks)	Plug/Liner Sizes	Transplant to First Flower (Weeks)	Plant Height	USDA Zones
A	'Sparkle White' Gaura*	Yes	5	128-72	7-8	12-24 in./30-61 cm	5b-9
B	PowWow Wild Berry Echinacea*	Yes	5-6	128-72	13-17	16-20 in./41-51 cm	4-10

* All-America Selections National Winner

PanAmerican Seed®

annuals

Classics & Cutting Edge

From day one, PanAmerican Seed has been recognized as the “go-to” supplier for high-performance annuals, backed by **industry-leading seed quality** and **consistent, deliverable inventory**. While our brand was built on timeless classics like impatiens, marigolds, petunias and pansies, we are proud to lead the charge in revolutionizing our industry with varieties that benefit growers, retailers, landscapers and gardeners. For 2018, we offer you close to 50 new annual varieties - each one committed to being **the best that seed can offer**.



STAYS IN COLOUR... REALLY!

Nonstop colour means plants look better getting off the truck and they just keep getting better from store to garden!

**(Lucky Star Deep Pink,
page 90)**

CALIBRACHOA... REINVENTED!

Kabloom®: The first seed calibrachoa. Growers, count on plenty of benefits from this fresh new option!

**(Kabloom Yellow,
page 38)**

COOL NEW COLOUR FOR THE COOLEST PANSY

You have an all-new colour to grow and sell in the best-performing spreading pansy for Spring and Autumn.

**(Cool Wave
Raspberry,
page 78)**



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.

ANGELONIA

Angelonia angustifolia

Serena® Series F1

Height: 16 to 20 in./41 to 51 cm

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

Seed supplied as: Pelleted

Plug crop time: 5 to 6 weeks

Transplant to finish: 8 to 9 weeks

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

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

New White Improved Times like current White, with faster secondary flowering. Plants are retail-ready faster, especially for the first shipments.

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





Serenita Pink All-America Selections National Winner



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 in the North.
- Grow Serenita with less to no PGRs for cost savings.

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



Serenita Sky Blue



NEW

Serena White Improved



Serenita White



Serenita Purple



Serenita Raspberry



Serenita Lavender Pink



Serenita Mixture



Serena Purple



Serena Blue



Serena Mixture



Serena Waterfall Mixture



NEW

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

New 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



Snow Crystals
Fleuroselect Gold Medal



Clear Crystal Purple Shades
US 7,915,504



Easter Bonnet White



Easter Bonnet Lavender
RHS Award of Garden Merit



Easter Bonnet Lemonade



Clear Crystal Mixture
US 7,915,504



Clear Crystal Lavender Shades
US 7,915,504



Easter Bonnet Peach



Easter Bonnet Deep Pink



Easter Bonnet Deep Rose



Clear Crystal White Fleuroselect Novelty US 7,915,504



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



Easter Bonnet Mixture

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.

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.
- Slightly smaller blooms, lighter green foliage and less controlled habit in the pack than Clear Crystal White.

ANEMANTHELE

See **ColorGrass**, page 53.

ANEMONE

See **Cut Flowers**, page 178.

ANGELONIA

See page 30.

ANTIRRHINUM

See **Snapdragon**.

AQUILEGIA

See **Perennials**, page 144.

ARABIS

See **Perennials**, page 146.

ARMERIA

See **Perennials**, page 146.

ASCLEPIAS

See **Cut Flowers**, page 178.



Pot 'N Patio Pink Aster



Pot 'N Patio Scarlet Aster



Gryphon Begonia



Pot 'N Patio White Aster



Pot 'N Patio Blue Aster



Silver Bells Browallia



Marine Bells Browallia



Pot 'N Patio Mixture Aster



Snowtopia Bacopa



Blutopia Bacopa



Blue Bells Browallia

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.

CUT FLOWER ASTER

Meteor Mixture, page 178.

BACOPA (SUTERA)

Sutera cordata

Blutopia® & Snowtopia®

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 scheduling, quick turns, no pinching or need for stock plants.
- 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.

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 pot plant sales.
- Lets consumers extend their enjoyment by bringing plants indoors at the end of the season.

BELLIS

See Perennials, page 146.

BROWALLIA

Browallia speciosa major

Bells Series

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

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

Seed supplied as: Raw

Plug crop time: 5 weeks

Transplant to finish: 9 to 11 weeks

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



Dragon Wing Pink



Dragon Wing Red



BabyWing Mixture



BabyWing Red



Dragon Wing Pink EU 10351



BabyWing White
Bronze Leaf



BabyWing
Bicolor



BabyWing White



BabyWing 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."

Georgia Gold Medal Winners

Some like it hot!

Even when temperatures blaze, Dragon Wing keeps on pumping out the colour in gardens and planters all season. Thanks to their best-in-class "bullet-proof" performance, fast fill-in and easy-care nature, this dynamic duo is chosen by landscapers and homeowners over and over.



Megawatt Rose Green Leaf

MEGAsize + MEGAcolour = MEGAsales!

Megawatt debuted for 2017 as a fresh, high-energy option in begonias, pushing this must-have class to a whole new level with great timing benefits, a unique colour, ultimate garden power and more. These bigger-than-life hybrids open the door to earlier Spring sales for gardens, planters and baskets.

With this introduction, PanAmerican Seed now offers a complete interspecific program, starting with fastest-to-market BabyWing® for day-neutral growing... Megawatt for big Spring sales...and 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 all through the Summer.
- Sturdy flower stems hold flowers above the foliage for superior show versus others.
- Bronze Leaf varieties are faster to flower than the Green Leaf varieties in long days.
- Beautiful plants with lush foliage are perfect for landscapes, baskets, big tubs and borders.
- Performs well in heat/drought, with no deadheading needed.

New Red Bronze Leaf Big flower power! Fits well with the other Megawatt Bronze Leaf varieties for timing and habit.



Pink Bronze Leaf

megawatt



NEW
Red Bronze Leaf



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



NEW
Red Bronze Leaf



Rose Bronze Leaf



Rose Green Leaf



Red Green Leaf



Pink Bronze Leaf



Kabloom Yellow



Kabloom White USPP 26,483



Kabloom Yellow USPP 26,516



Kabloom Deep Pink



Kabloom Deep Blue USPP 26,697

CALIBRACHOA 
Calibrachoa x hybrida

Kabloom® Series F1

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

Seed supplied as: Pelleted

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

- First-of-its-kind Kabloom is 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.
- Easy-sow pelleted seed 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.
- Available in core solid colours.

Deep Blue The most vigorous in the series, with the greatest variation in vigour/habit. Low percentage of purple-blue blooms.

Deep Pink Requires long days for flowering.

White Has no "pinking" and is the most compact in the series.

Yellow More upright plant structure.

New Crave Strawberry Star F1

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

Seed supplied as: Pelleted

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 more uniformly branched and controlled habit than Crave Sunset.
- Grows more vigorously than the Kabloom varieties.
- Requires 12-hour daylength for best flowering.

CAMPANULA
See **Cut Flowers**, page 179.

CAPSICUM
See **Pot Plants**, page 164.

CAREX
See **ColorGrass**, pages 52 and 55.

CARTHAMUS
See **Cut Flowers**, page 179.

CATHARANTHUS
See **Vinca**.

Ease and efficiency, at your fingertips!

The first seed calibrachoa, Kabloom lets you move beyond URCS and liners and gives you peace of mind in this very popular class. You can 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.



NEW

Crave Strawberry Star



NEW

Crave Strawberry Star



NEW
First Flame Mixture



NEW
First Flame Scarlet



First Flame Yellow



First Flame Red



Dracula

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.

CELOSIA 
Celosia plumosa

PanAmerican Seed offers you two distinctive types of *C. plumosa* - our shorter Ice Cream series (page 40) and mid-height First Flame series - to create a winning lineup that meets your bedding and landscape celosia needs.

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.

New Scarlet Model for the series features outstanding, bright colour and great habit - fits well with Red and Yellow. Colour holds very well in sun/high light levels.

New Mixture Shows off three bright colours: Red, Yellow and NEW Scarlet.



Ice Cream Series



Ice Cream Light Yellow



Ice Cream Yellow



NEW
Ice Cream Salmon



Ice Cream Pink



Ice Cream Orange



Ice Cream Cherry



Ice Cream Mixture



Kosmo Yellow



Kosmo Pink US PVP 200400022



Kosmo Salmon



Kosmo Cherry



Kosmo Purple Red Fleuroselect Novelty



Kosmo Mixture

CELOSIA PLUMOSA continued

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-resistant, long-lasting series stands tough when temperatures rise - 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 Salmon** Clear salmon colour on a very good plant habit - one of the models for the Ice Cream series. Good colour for mixes.

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.

CUT FLOWER CELOSIA

Bombay Series, page 181.

Celway Series, page 182.

New Neo Series, page 180.

Spring Green, page 181.

Sunday Series, page 182.

premium shade coleus



Kong Lime Sprite

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 mid-rib 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 the 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 Scarlet



Kong Jr. Scarlet



Kong Mosaic



Kong Red US PVP 200500015



Kong Rose US PVP 200500017



Kong Empire Mixture



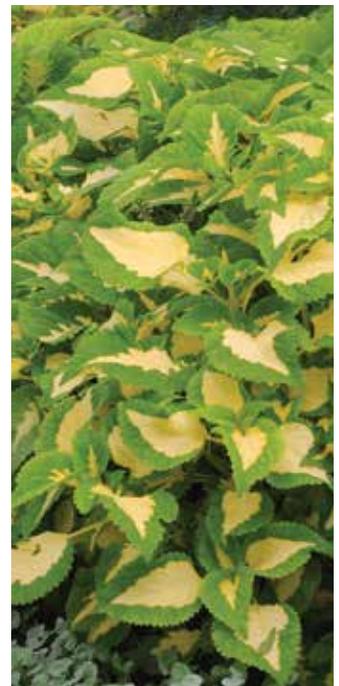
Kong Salmon Pink US PVP 200900035



Kong Jr. Lime Vein

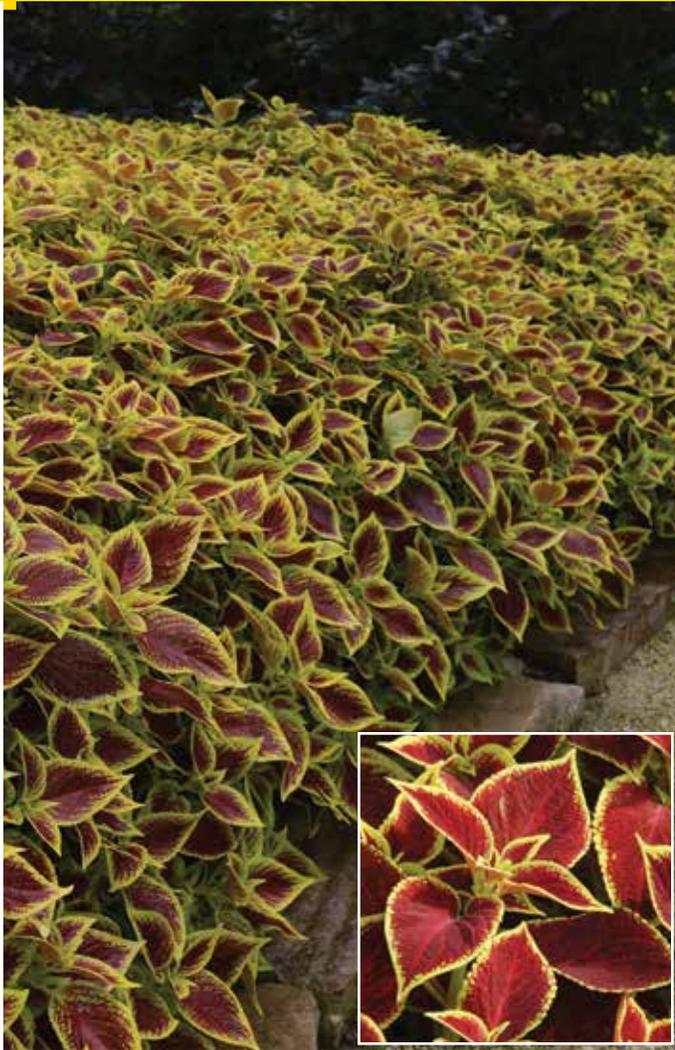


Kong Jr. Rose



Kong Jr. Green Halo

premium sun coleus



Crimson Gold



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.



Dark Chocolate



Chocolate Mint



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.

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.

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



Rose to Lime Magic: Stage 1, 2 & 3



Mighty Mosaic



Watermelon



Wizard Select Mixture



Wizard Mixture



Wizard Rose



Wizard Jade



Black Dragon



Wizard Golden



Wizard Rose



Wizard Mosaic



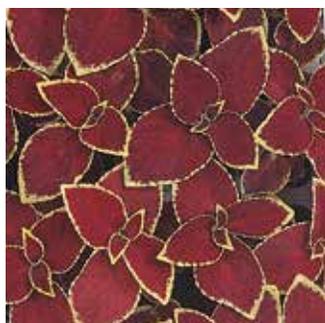
Wizard Coral Sunrise



Wizard Sunset



Wizard Velvet Red



Wizard Scarlet

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® 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 52.

COREOPSIS
See *Perennials*, page 147.

CORYNEPHORUS
See *ColorGrass*, page 53.



Sonata White Cosmos
 Fleuroselect Gold Medal



Sonata Pink Cosmos
 Fleuroselect Quality Mark



Sonata Pink Blush Cosmos
 Fleuroselect Quality Mark



Sonata Carmine Cosmos
 Fleuroselect Quality Mark



Sonata Mixture Cosmos
 Fleuroselect Quality Mark



Antiquity Cosmos



Tropic Flame Crossandra



Tropic Yellow Splash Crossandra



Dynamite Cuphea

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: Premium Grade 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.

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.



NEW

Jolt Pink Magic Dianthus



Jolt Pink Dianthus
All-America Selections National Winner



Jolt Cherry Dianthus



Figaro White Dahlia Fleuroselect Novelty



Figaro Original Field Grown Mixture Dahlia Fleuroselect Novelty



Figaro Yellow Shades Dahlia Fleuroselect Quality Mark



Figaro Orange Shades Dahlia Fleuroselect Quality Mark



Figaro Violet Shades Dahlia Fleuroselect Quality Mark



Figaro Red Shades Dahlia Fleuroselect Quality Mark

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.

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

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 fully double flowers.

DELPHINIUM
See **Perennials**, page 148.



Dash Mixture



Dash Magician



Dash Violet



Dash White



Dash Pink



Dash Crimson

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 vernalization 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 pot 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 temperatures).

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.

Also available: **Mixture**



Dynasty White Blush



Dynasty Pink Magic



Dynasty Purple

Dynasty Orchid
RHS Award of Garden Merit



Dynasty Rose Lace



Dynasty Red



Ideal Select White



Ideal Select WhiteFire
RHS Award of Garden Merit



Ideal Select Salmon



Ideal Select Raspberry



Ideal Select Red



Ideal Select Mixture



Floral Lace White



Floral Lace True Rose



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



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



Floral Lace Lilac



Floral Lace Cherry

SINGLE 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.

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.

Bouquet Series, page 183.

Sweet Series, page 184.

PERENNIAL DIANTHUS

New Rockin' Red, page 149.



Floral Lace Crimson



Floral Lace Violet Picotee



Floral Lace Mixture

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.

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.

DIGITALISSee **Perennials**, page 148.**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.

ECHINACEASee **Perennials**, page 150.**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 vernalization needed.
- Matches pansy production well; grow in premium packs, 4-in./10-cm pots and gallons.

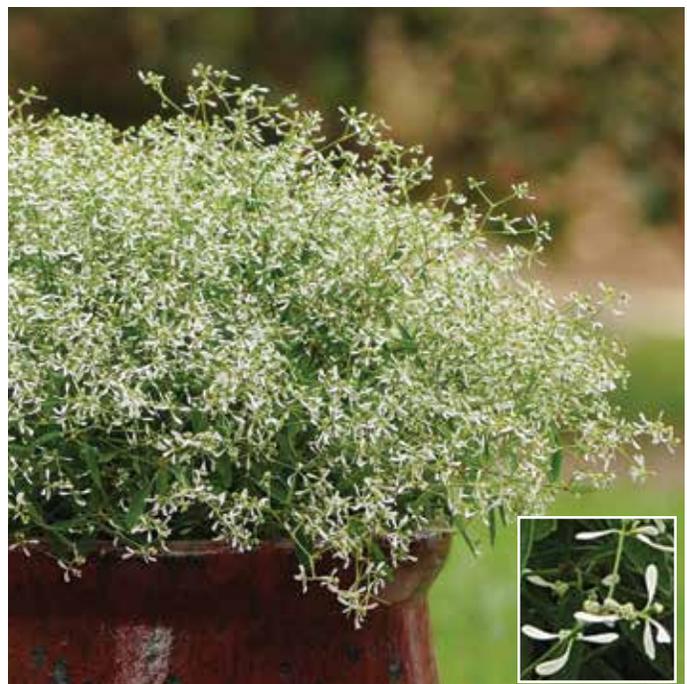
EUPHORBIA *Euphorbia graminea***Glitz F1**

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.

EUSTOMASee **Lisianthus**.**EXACUM**See **Pot Plants**, page 169.**FESTUCA**See **ColorGrass**, page 54.**FIBER OPTIC GRASS**See **Isolepis** in **ColorGrass**, page 52.**FRAGARIA**See **Strawberry**.**FUSEABLES**See **Plug & Play Combos**, page 10.**GAILLARDIA**See **Perennials**, page 152.**GAURA**See **Perennials**, page 152.**Silver Falls Dichondra****Emerald Falls Dichondra****Silverdust Dusty Miller****Citrona Yellow Erysimum**
US PVP 200600168**Citrona Orange Erysimum**
US PVP 200600167**Glitz Euphorbia**



New Day Clear Orange



Tiger Mixture



Mixture



Strawberry Shortcake Mixture



Sunny Side Up Mixture



White



Rose Stripe



Yellow



Bright Mixture



Red Stripe



Pink Shades



Clear Orange



Bronze Shades

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.

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.



Summer Showers White Blush
Ivy Geranium



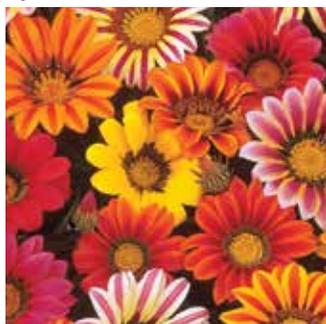
Summer Showers Fuchsia
Ivy Geranium



Summer Showers Burgundy
Ivy Geranium



Summer Showers Mixture
Ivy Geranium



Sunshine Mixture Gazania

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.



QIS Orange Gomphrena

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.



Fireworks Gomphrena



QIS Red Gomphrena

GERBERA
See **Pot Plants**, page 170.

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**



QIS Carmine Gomphrena
Fleuroselect Quality Mark

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

GYPHOPHILA
See **Perennials**, page 152.

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.



Bronco Carex



Blue Arrows Juncus with Glitz Euphorbia & Red Geranium



Live Wire Isolepis



Coolio Koeleria



Amazon Mist Carex



Bronco Carex

Variety/Exposure	Colour group	Height	Spread	USDA Zones	Containers	Plug 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

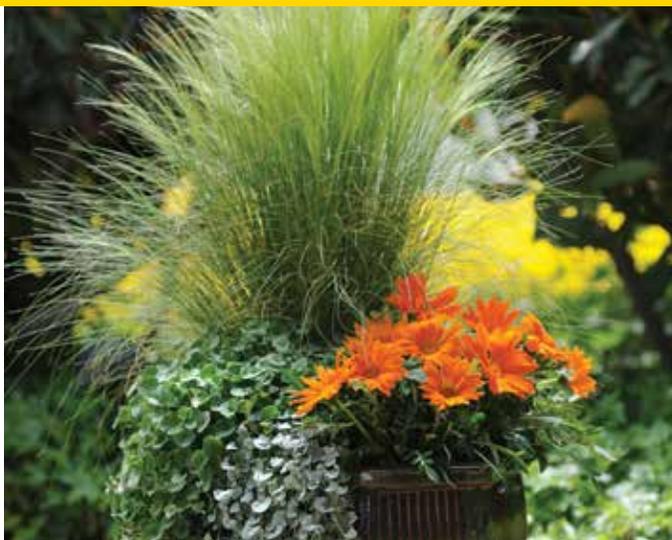
All ColorGrass varieties are supplied as multi-seed pellets.



Lucius Luzula



Sirocco Anemanthele



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



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)								
Lucius Luzula 🌞🌱 <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 Twister (page 57), and Fuseables Twisted Arrows and Fuseables Twisted Dart (page 10).



Pony Tails Stipa



ColorGrass ornamental grasses bring patios and landscapes to life.



Festuca Festuca



Blue Dart 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 Festina 🌞🌱 <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.
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	4-9	4 in./10 cm, 6 in./15 cm*, Gallon	4-7	9-10	Upright grass has fine, needlelike green foliage, with silky green flowers in July that mature to golden blonde.

*3 plants per pot



Red Rooster Carex



Javelin Juncus



Phoenix Green Carex



Red Rooster Carex

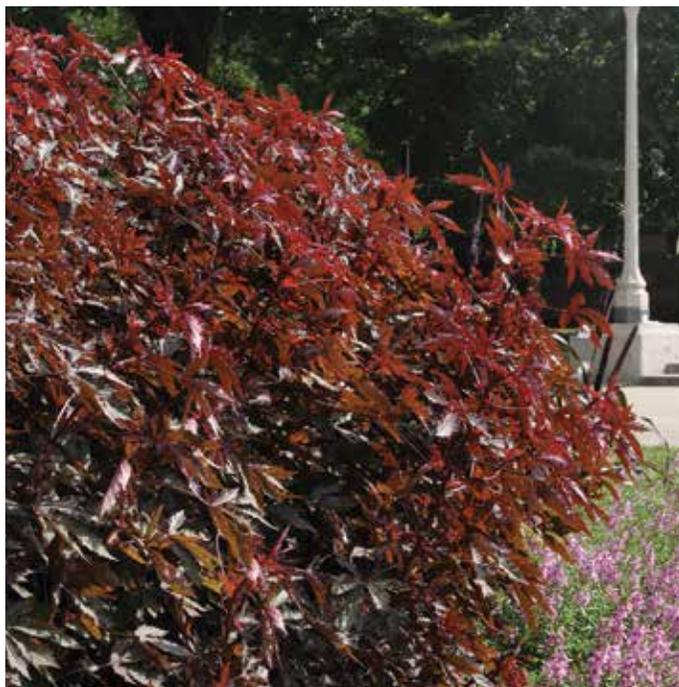


Blue Arrows Juncus



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.



Mahogany Splendor Hibiscus



Dakota Gold Helenium
US PVP 200600009

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



Silver Mist Helichrysum

HELICHRYSUM ☀️
Helichrysum microphyllum
(*Plectostachys serpyllifolia*)

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

USDA Hardiness Zones: 7a to 11
(0°F/-18°C minimum temperatures)

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 153.



Purple Lady Iresine

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-resistant; combines well with other vigorous sun-loving plants in containers.
- Can be grown directly in the water as a pond plant.
- NOTE: Foliage will have green/rust tones in the greenhouse, but matures to burgundy in full sun outdoors.

PERENNIAL HIBISCUS
Luna Series, page 153.

HYPOESTES
See **Pot Plants**, page 173.

IMPATIENS
See page 60.

IBERIS
See **Perennials**, page 153.

IREFINE ☀️
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.

ISOLEPIS
See **ColorGrass**, page 52.

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.

COLORGRASS JUNCUS

Blue Arrows, see *ColorGrass*, page 55.

Blue Dart, see *ColorGrass*, page 54.

Javelin, see *ColorGrass*, page 55.

Starhead, see *ColorGrass*, page 53.

PLUG & PLAY FUSEABLES JUNCUS

Twisted Arrows, page 10.

Twisted Dart, page 10.

JUNCUS ☀️☀️

Juncus effusus spiralis

Twister

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

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

Seed supplied as: Multi-Seed Pellets

Plug crop time: 7 to 8 weeks

Transplant to finish: 6 to 7 weeks

- 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.

KOELERIA

See *ColorGrass*, page 52.

LAVANDULA

See *Perennials*, page 154.

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

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

Plug crop time: 7 to 8 weeks

Transplant to finish: 6 to 7 weeks

- 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.

LIMONIUM (STATICE)

QIS Series, 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.



Tristar White Isotoma



Tristar Sky Blue Isotoma



Gemini Blue Isotoma



Gemini Pink Isotoma



Gemini Blue Isotoma



Jealousy Leycesteria



Twister Juncus



Enchantment Linaria



Divine Series

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 the 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.

New Lavender Improved Greater plant vigour, deeper bronzing to the foliage and darker colour saturation than original Lavender.

New Red Delivers good vigour, deep green foliage and a true red colour; replaces Scarlet Red and Cherry Red.

Hot Cha Cha Mixture Violet, Orange Bronze Leaf, Scarlet Bronze Leaf.

Islander Mixture Scarlet Red, White, Blue Pearl.

Mystic Mixture Lavender, Violet, White.

Salsa Mixture Orange Bronze Leaf, Scarlet Red, White.



Mixture



Mystic Mixture



Islander Mixture



Salsa Mixture



Hot Cha Cha Mixture



NEW Lavender Improved



NEW Red



Violet
RHS Award of Garden Merit



Pink



Lipstick



Orchid



Orange



Orange Bronze Leaf



White



Blue Pearl



Scarlet Bronze Leaf



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: 12 to 14 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.

super elfin® xp



XP White



XP Pink



XP Coral



XP Salmon Splash



XP Red



XP Salmon



XP Rose



XP Violet Starburst
US 5,986,188



XP Blue Pearl



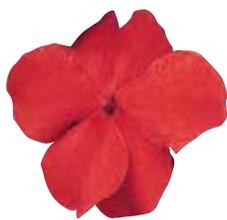
XP Lilac



XP Red Starburst
US 5,986,188



XP Punch



XP Scarlet



XP Violet

super elfin®



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 White



Impreza Rose



Passion Mixture



Wedgewood Mixture

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.

Also available: **Select Mixture**



Pink



Blue Pearl



Cherry Splash



Rose



Salmon



Punch



Violet



White



Dazzler Baby Shower Mixture



Grower Select Mixture



Merlot Mixture



Tutti Fruitti 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 makes Dazzler perfect for mechanized sowing.
- Healthy, uniform plants have controlled, manageable vigour; fill in quickly and are covered with 1.5-in./4-cm blooms.
- Well-matched across the series, all 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



Rose



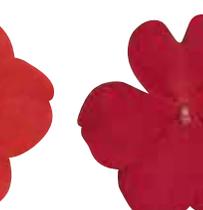
Punch



Scarlet



Red



Cranberry



Florida Pink Lisianthus



Florida Pink Lisianthus



Florida Blue Lisianthus



Florida Silver Lisianthus



Fountain Crimson Lobelia



Fountain Rose Lobelia



Fountain Mixture Lobelia



Fountain White Lobelia



Fountain Lilac Lobelia



Fountain Blue 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 pot 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.

POT PLANT LISIANTHUS

Sapphire Series, page 173.

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.



Regatta White



Regatta Sky Blue
Fleuroselect Novelty



**Regatta Lilac
Splash** US 200600188



Regatta Lilac



Regatta Sapphire Fleuroselect Novelty



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.

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.

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 Fleuroselect Novelty



Regatta Mixture



Regatta Midnight Blue



Regatta Rose Fleuroselect Quality Mark



Sapphire Pendula



Cambridge Blue



Crystal Palace



Mrs. Clibran



Rosamond



String of Pearls



White Lady



Riviera White *Fleuroselect Novelty*



Riviera 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 156.

Vulcan Red Series, page 156.

LOBULARIA

See Alyssum.

LUZULA

See ColorGrass, page 53.



Riviera Midnight Blue
Fleuroselect Quality Mark



Riviera Sky Blue *Fleuroselect Quality Mark*



Riviera Marine Blue



Riviera Blue Eyes



Riviera Rose
Fleuroselect Quality Mark



Riviera Lilac



Riviera Blue Splash
Fleuroselect Novelty



Riviera White
Fleuroselect Novelty



Taishan 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 petaled 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



Vanilla



Garland Orange



Marvel Orange



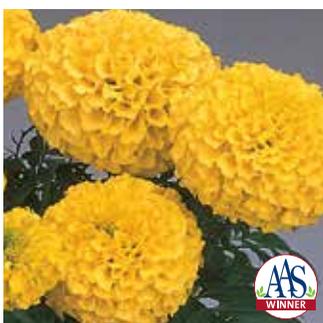
Marvel Yellow



Marvel Gold



Marvel Mixture



First Lady All-America Selections National Winner



Primrose Lady



Orange Lady



Gold Lady



Lady Mixture

AFRICAN MARIGOLD continued

Garland Orange F1

Height:

Short day: 28 to 34 in./71 to 86 cm

Long day: 48 to 60 cm/1.2 to 1.5 m

Seed supplied as: Coated, De-tailed

Plug crop time: 3 weeks

Transplant to finish: 7 to 8 weeks

- The first garland-type marigold from PanAmerican Seed delivers continuous orange blooms on long stems, perfect for ceremonial use.
- Flower size is 3.5 to 4.5 in./8 to 11 cm.
- Easy to grow and adaptable to a wide range of conditions.

Lady Series F1

Height: 20 in./51 cm

Spread: 10 in./25 cm

Seed supplied as: De-tailed

Plug crop time: 3 weeks

Transplant to finish: 8 to 9 weeks

- This standard for taller African/American marigolds makes outstanding mass plantings.
- Under cooler conditions, Lady produces very strong stems and a neat, tidy habit.
- Abundance of fully double, 3-in./8-cm blooms are held well above the foliage.

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 landscaper programs.
- Performance-tested tolerance to *Botrytis*.
- Extra-sturdy stems won't break in shipping or 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.



Bonanza Flame



NEW
Bolero Improved



Flame

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.



Gold

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.
- Plants are excellent garden performers under a wide range of conditions.

New Bolero Improved More reliable seed supply and better germination than original Bolero. Flowers a few days earlier but has the same profuse flowering in the garden and attractive bicolour loved by consumers.



Yellow



Orange



Deep Orange



Mixture



Bee



Harmony



Janie Mixture



Janie Deep Orange



Janie Bright Yellow



Janie Primrose



Janie Spry



Janie Gold



Janie Tangerine



Janie Flame



Janie Harmony

DWARF CRESTED FRENCH MARIGOLD continued

Boy Series

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

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

Seed supplied as: Raw, Coated, De-tailed

Plug crop time: 3 weeks

Transplant to finish: 5 to 6 weeks

- Excellent garden performers.
- Bright blooms are 1.5 in./4 cm across, on very free-flowering plants.
- Very uniform for habit and flowering time.

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.



Golden Boy



Boy O' Boy Mixture



Yellow Boy



Harmony Boy



Orange Boy *Fleuroselect Gold Medal*



Spry Boy



Durango Mixture

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 and Yellow.



Outback Mixture



Gold



Bee



Yellow



Orange



Bolero



Tangerine



Red



Flame



Hot Pak Mixture



Orange US 9,326,467



Harmony US 9,326,464



Flame US 9,326,468



Fire



Spry US 9,326,466



Gold US 9,320,212



Yellow US 9,326,465

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.



Strawberry Blonde US PAF, PCT



Fireball US PAF, PCT

DWARF CRESTED FRENCH
MARIGOLD

**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./7 cm

Strawberry Blonde:

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

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

MATRICARIA

See **Cut Flowers**, page 188.



Strawberry Blonde US PAF, PCT



Fireball US PAF, PCT



Mini Mint Ornamental Mint

**ORNAMENTAL MINT
(CORSIAN MINT)** 🌞🌱

Mentha requienii

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 pot 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.



Purple Majesty Ornamental Millet All-America Selections Gold Medal Winner

ORNAMENTAL MILLET 🌞🌱

Pennisetum glaucum

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

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 mid-rib begin to develop purple colour as they mature.
- Shows best colour in full sun.



Jester Ornamental Millet



Purple Baron Ornamental Millet

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

New 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)**New!** Now available for worldwide distribution.

- 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.

MULTI-PELLETS**Plug & Play Fuseables,** page 10.**SimplyHerbs,** page 210.**SimplySalad,** page 208.**MYOSOTIS**See **Perennials,** page 157.**NEPETA**See **Perennials,** page 157.**NEW GUINEA IMPATIENS**

See page 58.

ORNAMENTAL PEPPER

See page 93.

Also see **Pot Plants,** pages 164 and 174.**NEW**
Copper Prince**Jade Princess**



Poetry Pink
Nemesis



Poetry Lavender
Pink Nemesis



Poetry Mixture
Nemesis



Poetry White
Nemesis



Poetry Deep Pink
Nemesis



Poetry Blue
Nemesis



Sundrops Mixture Nemesis
Fluoreslect Gold Medal



Purple Robe Nierembergia



NEW
Kirigami Ornamental Oregano US PVPAF

NEMESIA ☀️
Nemesis foetans

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 ☀️
Nemesis 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 containers.
- Useful as a cool-season crop to accompany Spring pansies.
- Timing fits into the cineraria/ calceolaria crop time.

NICOTIANA ☀️
Nicotiana alata

Nicki Series (Not pictured)

Height: 16 to 18 in./41 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: 4 to 5 weeks

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

Colours available: **Lime, Rose and White.**

NIEREMBERGIA ☀️
Nierembergia coerulea

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 vigor and long-flowering season in beds, borders and hanging baskets.
- Works well in garden beds and baskets.

ORNAMENTAL OREGANO ☀️
Origanum x hybrida

New 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.





White Purple Eye



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

OSTEOSPERMUM 
Osteospermum ecklonis

Akila® Series F1

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

Seed supplied as: Raw

Plug crop time: 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; no vernalization needed.

- Full, well-branched plants are drought-tolerant once established.

Daisy White Petals have a yellow back.

New Grand Canyon Mixture

First multicolor segregating mix includes popular colors like yellow, magicians and rose-reds, as well as purple, lavender, creams and whites.



NEW
Akila Grand Canyon Mixture



Purple



Lavender Shades



White



Mixture



NEW
Grand Canyon Mixture

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. One trip to the garden centre for lush baskets or pots for in-ground planting is enough to convince anyone that Cool Wave is a cool-season gardener's dream.

SPREADING PANSY 🌞

Viola x wittrockiana

Cool Wave® Series F1

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

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

Flower size: 2 to 2.25 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 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.

Lemon Surprise Lemon blooms with some genetic dark and light shading. The surprise: up to 3% of the blooms show a purple cap.

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

New Raspberry All-new colour class joins Cool Wave! Rich, velvety rosy-purple with white around flower centre. Shows more white in the face in Summer/Autumn (warm season) production. In Winter/Spring (cool season) production, white is diminished and more rose/purple shows in the bloom. Matches Golden Yellow for vigour.

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

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

Pastel Mixture Lemon Surprise, 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.

NEW

Cool Wave Raspberry



Golden Yellow



Lemon Surprise



Pastel Mixture



Berries 'N Cream Mixture



Mixture



White



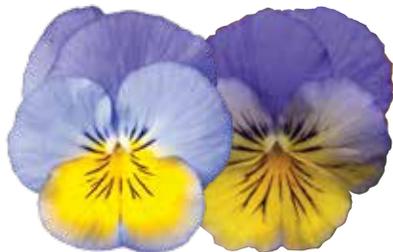
Lemon Surprise



Golden Yellow



Blue Skies



Morpho



Purple



NEW Raspberry



Red Wing /
Sunshine 'N Wine



Blueberry Swirl



Frost



Violet Wing



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 that allows shipping of all 26 colours in the same week in Autumn.

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.
- Blue Frost** Can contain blue blotch and white blotch shades, depending on environment.
- Solar Flare** Blooms show more red in low temperatures, more yellow in high.
- New Yellow Improved** Flowers 5 to 7 days earlier, with a larger flower on a more uniform plant. Under the heat of Summer/Autumn production, it outperforms all competition in this key colour class.

Matrix mixtures on page 82.



White



Primrose



Lemon



NEW Yellow Improved



Orange



Rose



Light Blue



True Blue



Purple



White Blotch



Yellow Blotch



Rose Blotch



Solar Flare



Red Blotch



Ocean



Beaconsfield



Blue Blotch



Deep Blue Blotch



Denim



Sunrise



Rose Wing



Red Wing



Morpheus



Sangria



Lavender Shades



Blue Frost



Blotch Mixture

Clear Mixture



Harvest Mixture

Autumn Blaze Mixture



Halloween Mixture

Citrus Mixture



Coastal Sunrise Mixture

Ocean Breeze Mixture



Mixture

matrix® mixes

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.

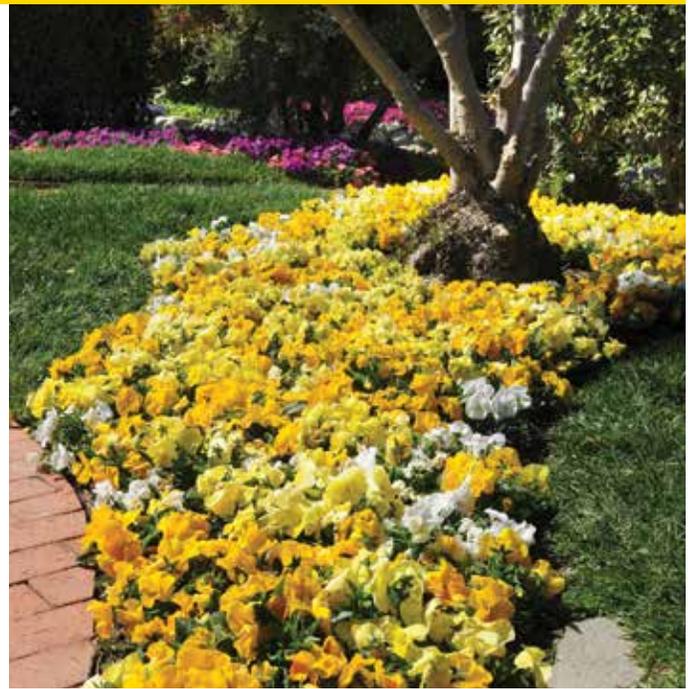
Amethyst Mixture Purple, Rose Blotch, Ocean, Deep Blue Blotch.

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



Tricolor Mixture



Topaz and Garnet Mixture



Amber Mixture



Amethyst Mixture



Jewels Mixture



Tanzanite Mixture



Ruby Mixture

spring matrix



Spring Matrix Series

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.

New Yellow Improved Produces a slightly larger, more well-branched plant. Earlier in Spring production by about 5 days.

Daffodil Mixture Deep Orange, Lemon, Yellow, White.

Pastel Mixture Pink Shades, Lemon, Blue.

Tricolor Mixture Blue, Lemon, Purple.

spring matrix



White Primrose Lemon **NEW** Yellow Improved Deep Orange Rose Scarlet



Blue Purple White Blotch Yellow Blotch Golden 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



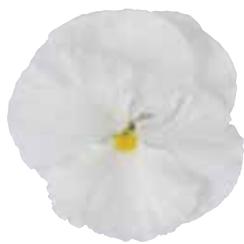
Mixture



Blotch Mixture



Tricolor Mixture



Pure White



White Blotch



Pure Lemon



NEW Pure Yellow Improved



Yellow Blotch



Yellow Red Wing



Denim



Pure Lilac Shades



Marina



Red Blotch



Blue Blotch



True Blue



Blue White Whiskers



Beaconsfield



Sunset



Rose Shades



Moonlight



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. Plants 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.

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

New Pure Yellow Improved 7 to 10 days earlier in Spring production. Plant is more compact, stretches less and has shorter peduncles, giving growers in Northern EU the best choice in this key colour segment for high-density Spring production.

Also available: **Outback Fire, Pure Silver Azure, Blotch Mixture** and **Mixture**.



Frizzle Sizzle Mixture



Frizzle Sizzle Yellow



Frizzle Sizzle Orange



Frizzle Sizzle Yellow-Blue Swirl



Frizzle Sizzle Raspberry



Fizzy Lemonberry



Frizzle Sizzle Lemonade



Frizzle Sizzle Blue



Frizzle Sizzle Burgundy

RUFFLED PANSY

Fizzy Lemonberry 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 8 to 9 weeks, Autumn 4 to 6 weeks

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

Frizzle Sizzle Series 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.

Mixture Also includes lavender shades (not available separately).

MEDIUM-FLOWERED PANSY

Halloween II 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

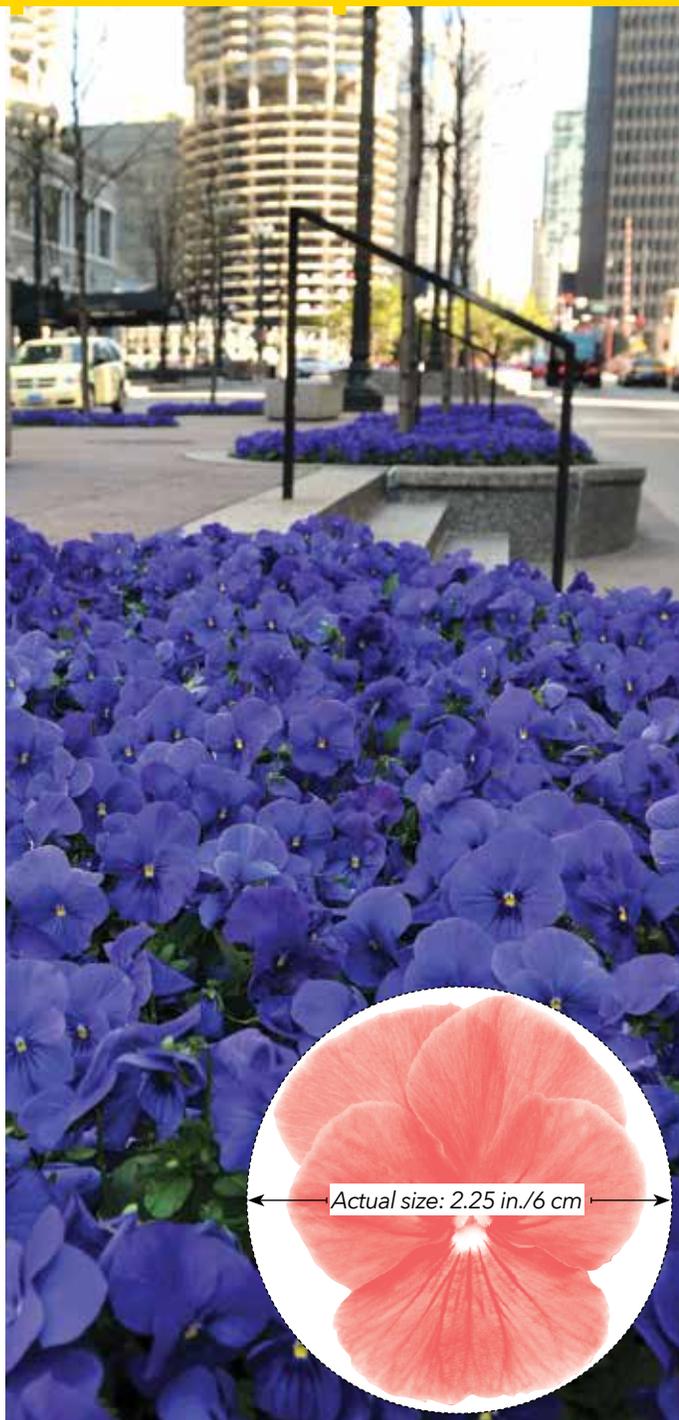
Seed supplied as: Raw, Primed

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

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



Halloween II



Panola XP True Blue



XP Clear Mixture



XP Blotch Mixture



XP Autumn Blaze Mixture



XP Blackberry Sundae Mixture



XP Mixture



XP Halloween Mixture



XP Citrus Mixture



XP Baby Boy 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 Scarlet, Sunburst, Yellow.

Baby Boy Mixture Marina, True Blue, White.

Blackberry Sundae Mixture Purple Face, Purple, White.

Citrus Mixture Deep Orange, White, Yellow.

Halloween Mixture XP Deep Orange plus Halloween II.



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 157.

PENSTEMON

See Perennials, page 158.



NEW

Lucky Star Series

PENTAS 🌞

Pentas lanceolata

New 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 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 Violet Faster secondary, follow-up blooming and a darker color intensity than other violet pentas on the market.



L: Lucky Star Lavender R: Competing lavender variety

lucky star

Stays in colour... Really!

Lucky Star is bred for the fastest follow-up blooming of any 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. The promise of continuous, showstopping colour on full, lush plants... now that's a huge plus!



NEW
Dark Red



NEW
Dark Red



NEW
Violet



NEW
Deep Pink



NEW
Pink



NEW
Lavender



NEW
White



Butterfly Series



Butterfly White



Butterfly Light Lavender



Butterfly Orchid



Butterfly Deep Pink



Butterfly Deep Rose



Butterfly Red



NEW

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 159.

ORNAMENTAL PEPPER 🌞*Capsicum annuum*

Seed supplied as: Raw

Plug crop time: 4 to 5 weeks

New 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**Spread:** 12 to 16 in./30 to 41 cm**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 PEPPERSSee **Pot Plants**, pages 164 and 174.**NEW**
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
US PVP 200500020

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 *first* and the *earliest-to-flower* spreading petunia series.

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.

Yellow Better branching with strong rooting compared to vegetative yellow varieties.

Spark Mixture Coconut, Denim, Pink Shades.

Volt Mixture Red, Coconut, Denim.



Shock Wave Pink Vein



Spark Mixture



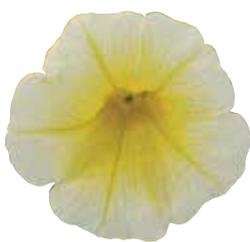
Volt Mixture



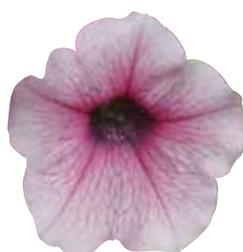
Deep Purple



Coconut



Yellow



Pink Vein



Pink Shades



Rose



Denim



Coral Crush



Red



Deep Purple

wave
PETUNIAS

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.

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

Plum Vein Slightly more upright than others in the series.

Violet Slightly more upright than others in the series.

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

Beachcomber Mixture Blue, Coral Reef, Shell Pink.

Great Lakes Mixture Violet, Blue, White.

Opposites Attract Mixture Violet, Coral Reef.

Plum Pudding Mixture Plum Vein, Violet.

South Beach Mixture Red, Violet, Coral Reef.

Starfish Mixture Burgundy Star, White.

The Flag Mixture Red, White, Blue.

Bold and creative!

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



Easy Wave Pink Passion



Starfish Mixture



Formula Mixture



Beachcomber Mixture



Great Lakes Mixture



The Flag Mixture



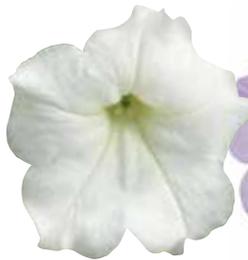
South Beach Mixture



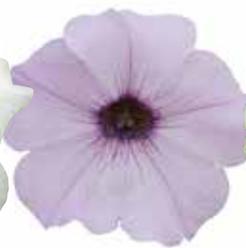
Opposites Attract Mixture



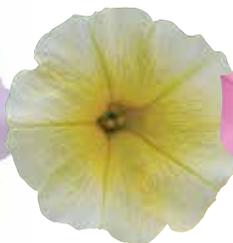
Plum Pudding Mixture



White



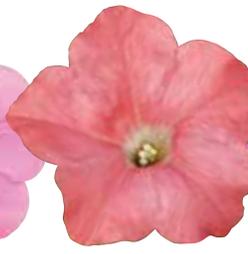
Silver



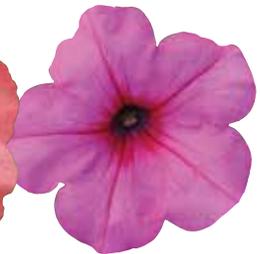
Yellow



Pink



Coral Reef



Pink Passion



Violet



Plum Vein



Neon Rose



Blue



Burgundy Star



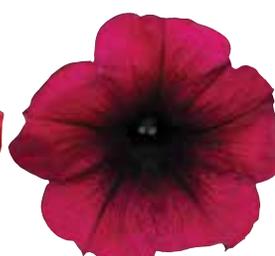
Rosy Dawn



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



wave®
PETUNIAS

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.

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 and Misty Lilac.

Wave Purple



Purple



Misty Lilac



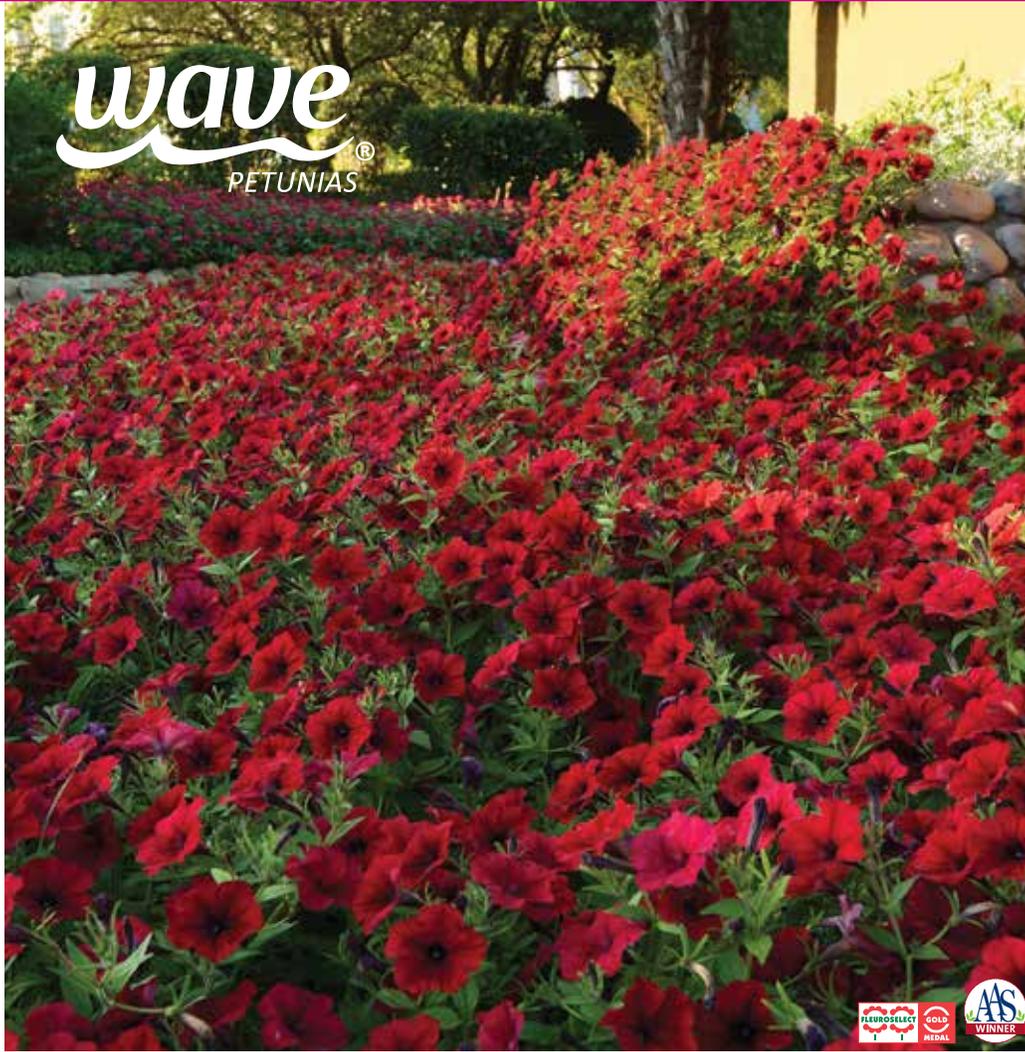
Pink



Lavender
All-America Selections National Winner,
Fleuroselect Gold Medal



Purple Classic
All-America Selections Classic



Tidal Wave Red Velour

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® 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.



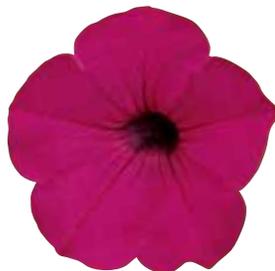
Silver All-America Selections National Winner, Fleuroselect Quality Mark



Hot Pink



Cherry



Purple



Red Velour

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



NEW

Dreams Burgundy Improved

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!

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*.

New Burgundy Improved Faster flowering by approximately 5 days, plus faster secondary branching and flowering for quicker-to-retail sales opportunities. Produces brighter blooms on shorter, more dense plants.

Pink Vein Not available in North America.

Patriot Mixture Red, White, Midnight.

Waterfall Mixture Sky Blue, Midnight, White.



White



Pink Vein



Appleblossom



Salmon



Coral Morn



Rose Morn



Pink



Neon Rose



Rose



NEW
Burgundy Improved



Red



Sky Blue



Midnight



Rose Picotee



Red Picotee



Mixture



Burgundy Picotee



Waterfall Mixture



Patriot Mixture



Sophistica Lime Bicolor, Antique Shades & Lime Green



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



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



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



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



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



Debonair Black Cherry
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.

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.

New Lime Green Improved Shows off a deeper bloom colour on a plant that is 10 to 12 days faster to flower, with faster secondary flowers. Stronger plant vigour and similar timing to Black Cherry offer a better mixing option.

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.



Daddy Mixture



Red Daddy



Blue Daddy



Peppermint Daddy



Pink Daddy



Sugar Daddy



Orchid Daddy
All-America Selections National Winner

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.



Supercascade Pink



Supercascade Rose



Supercascade Burgundy



Supercascade Red



Supercascade Blue



Supercascade Lilac



Supercascade Mixture



Supercascade White



Ez Rider Mixture



Ez Rider White



Ez Rider Deep Pink



Ez Rider Deep Salmon



Ez Rider Rose



Ez Rider Red Improved



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.

New Red Improved Offers darker, truer red colour; shorter, denser and better-branched plants; and strong, long plant holding. Averages 3 days faster to flower, with faster secondary blooms for earlier retail sales opportunities.

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

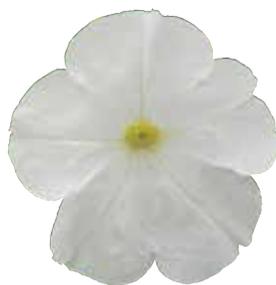
Plug crop time: 4 to 5 weeks

Transplant to finish: 5 to 6 weeks

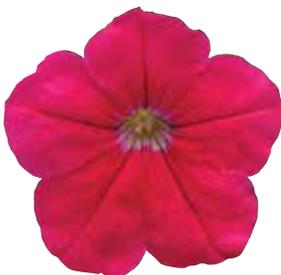
Not available in North America.

• **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 & pretty flora



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 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

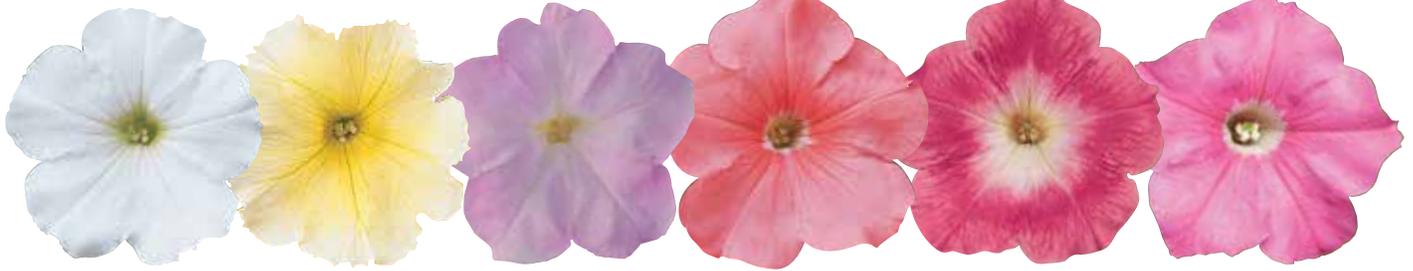
Plug crop time: 4 to 5 weeks

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.

Reflections Mixture Contains veined colours.



White

Yellow

Pink Chiffon

Salmon

Salmon Morn

Pink



Rose Morn

Chic

Spring

Sugar

Summer

Orchid



Carmine

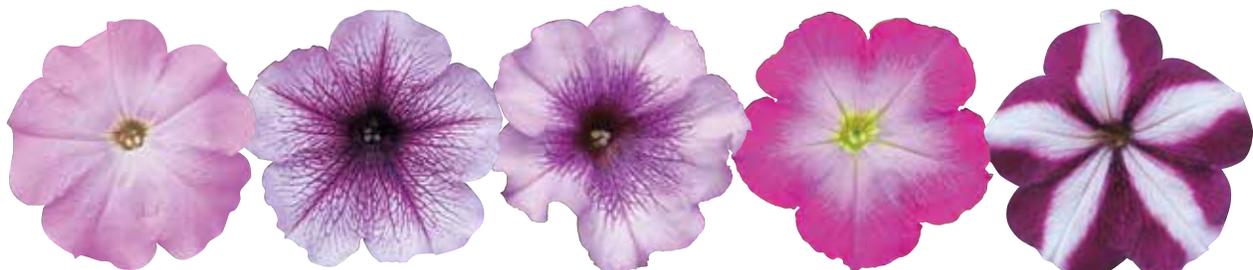
Velvet

Rose

Red Morn

Red

Red Picotee



Lilac

Lavender

Plum Crystal

Lavender Glow

Burgundy Star



Purple

Blue Star

Light Blue

Mid-Blue

Blue



Carpet Mixture



Rose Star



Blue Star

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.



White



Buttercream



Salmon



Pink



Rose



Plum



Velvet



Bright Red



Lilac



Sky Blue



Blue Lace



Neptune Mixture



True Blue



Blue



Mixture



Madness Series



Red



Total Madness Mixture



Clear Madness Mixture



Madness Merlot Mixture



Madness Old Glory Mixture



Moonlight Madness Mixture



Just Madness Mixture



Waterfall 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.

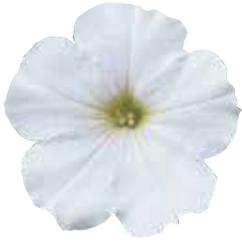
Madness Merlot Mixture Carmine, Lavender, Pink, White.

Moonlight Madness Mixture Lavender Glow, Yellow, Lilac.

Madness Old Glory Mixture Red, White, Midnight.

Total Madness Mixture Bright mix of 14 colours.

Madness Waterfall Mixture Lilac, Magenta, Royal, White.



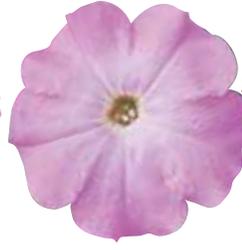
White



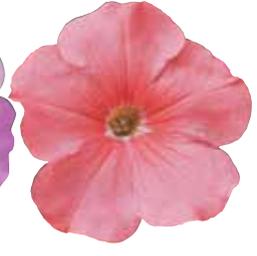
Yellow



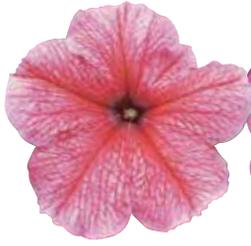
Pink Chiffon



Lilac



Simply



Spring



Sugar



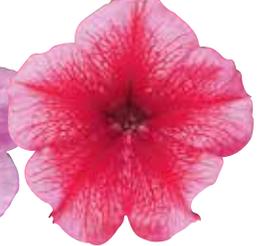
Salmon Morn



Rose Morn



Sheer



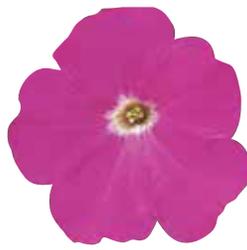
Summer



Pink



Lavender Glow



Carmine



Magenta



Plum



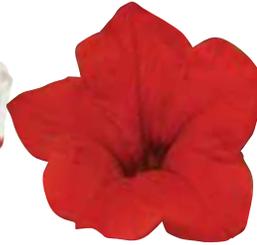
Rose



Red Morn



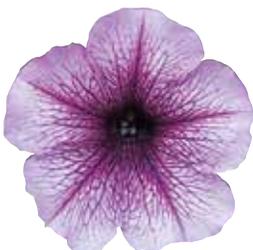
Red Picotee



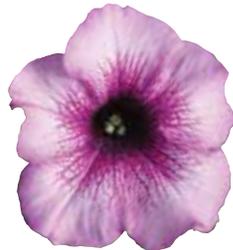
Red



Burgundy



Orchid



Plum Crazy



Burgundy Star



Royal



Midnight



Double Cascade Mixture



Double Cascade Blue



Double Cascade Burgundy



Bonanza Mixture



Double Cascade Orchid Mist



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

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 for late Spring sales.
- Well-suited to larger containers, mixed combination planters and beds.

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.

Valentine 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

- Soft red with serrated petals.

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 bicolour picotee patterns.



Pirouette Red



Pirouette Purple
All-America Selections National Winner



Pirouette Rose



Glorious Mixture



Valentine



Double Madness Rose And White



Satin Pink



Salmon



Rose



Burgundy



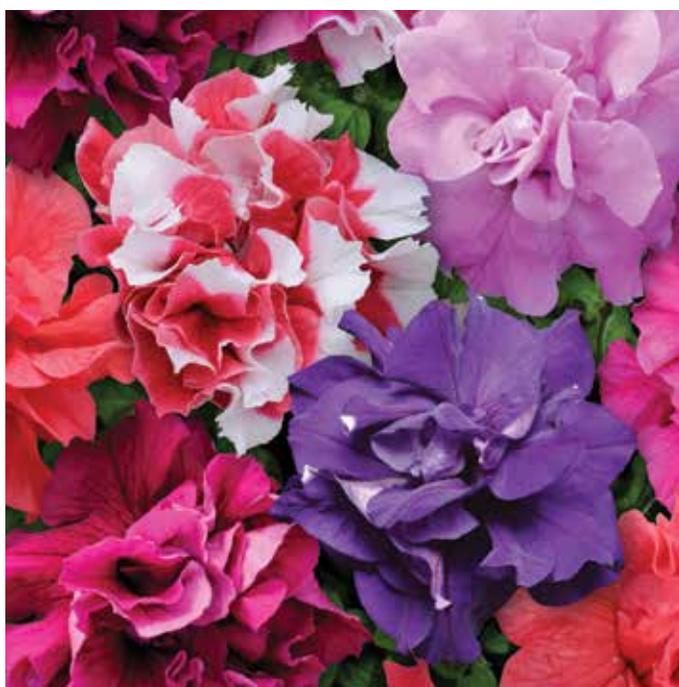
Red And White



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.



Ethnie Velvet Red
Fluoreselect Quality Mark



Ethnie Pastel Mixture
Fluoreselect Quality Mark



Ethnie White



Ethnie Light Blue



Ethnie Salmon



Ethnie Purple Violet



Ethnie Scarlet



Ethnie Dark Rose



Ethnie Mixture



21st Century Scarlet Phlox with Cool Wave Golden Yellow Pansy & Dash White Dianthus



21st Century Scarlet



21st Century Crimson

PHLOX
Phlox drummondii

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.

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.



21st Century Blue



21st Century White



21st Century Pink



21st Century Mixture



21st Century Patriot Mixture



Promise White *Fleuroselect Quality Mark*



Promise Rose *Fleuroselect Quality Mark*



Promise Peach *Fleuroselect Quality Mark*



Promise Lilac *Fleuroselect Novelty*



Promise Pink *Fleuroselect Novelty*



Promise Scarlet *Fleuroselect Novelty*



Promise Mixture



Grammy Pink & White *Fleuroselect Gold Medal*



Silver Crest Plectranthus



Silver Shield Plectranthus

PHLOX continued

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.

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.

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 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 157.



Primlet Mixture

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.

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.



Primlet Golden Shades



Heritage Crème



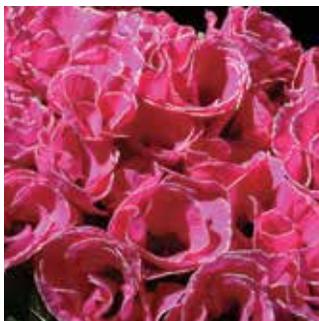
Primlet Purple



Primlet Lavender Shades



Primlet Sunrise



Primlet Rose With Edge



Primlet White



Primlet Scarlet Red Shades



Primlet Yellow



Primlet Pink Shades



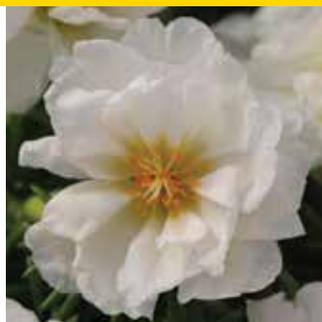
Primlet Rose



Primlet Lemon Shades



Happy Hour Tropical Mixture



Coconut



Lemon



Banana



Orange



Rosita



Peppermint



Fuchsia



Deep Red



Mixture



Pink Passion Mixture

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 Mixture

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.



White



Peppermint



Yellow



Orange



Pink



Fuchsia



Deep Red



Rosita



Toucan Fuchsia Purslane



Toucan Scarlet Shades Purslane



Lighthouse Purple Salvia *Fleuroselect Novelty*



Southern Star White Ruellia



Veranda Scutellaria



Flare Salvia



Southern Star Blue Ruellia



Southern Star Pink Ruellia

PURLANE 🌻
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.

RUDBECKIA
See **Perennials**, page 158.

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.



Vista Mixture



Vista White



Vista Red And White



Vista Salmon



Vista Rose



Vista Red



Vista Lavender



Vista Purple



Red Hot Sally II

SALVIA 🌻
Salvia splendens

Lighthouse Purple

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-resistant and ideal for low-maintenance landscaping use.
- 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.

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 160.

Patio Series, page 160.

SAXIFRAGA
See Perennials, page 160.

SCABIOSA
See Perennials, page 160.

SILENE
See Perennials, page 161.



White



Yellow



Red



Red Bicolor



Rose



Plumblossom



Pink



Orange



Sunset



Purple



Burgundy



Snapshot Series



NEW
Appleblossom



Merlot Mixture

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.

New Appleblossom Clean white colour is brushed with soft yellow and rose tones. The habit and timing match the other bicolors in the series.

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

Merlot Mixture White, Plumblossom, Burgundy.



Rocket White
All-America Selections
National Winner



Rocket Pink



Rocket Cherry



Rocket Mixture



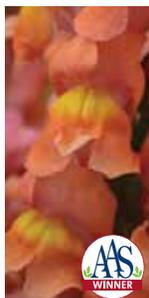
Rocket Lemon



Rocket Golden
All-America
Selections National
Winner



Rocket Orchid
All-America
Selections National
Winner



Rocket Bronze
All-America
Selections National
Winner



Rocket Rose
All-America
Selections National
Winner



Rocket Red
All-America
Selections National
Winner



Solstice Orange Tricolor



Solstice White



Solstice Pink



Solstice Rose



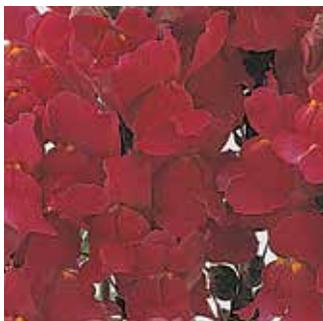
**Solstice
Lavender**



Solstice Yellow



Solstice Purple



Solstice Burgundy



Solstice Red



Solstice Mixture

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.

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.

CUT FLOWER SNAPDRAGON

Cool Series, page 191.

Early Potomac Series, page 195.

Maryland Series, page 192.

Monaco Series, page 193.

Potomac Series, page 194.

Purple Twist, page 191.

Red Delilah, page 191.



Hot Cakes White Stock



Vintage White Stock



Vintage Burgundy Stock



Peek-A-Boo Spilanthes



Hot Cakes Hot Rose Stock



Vintage Yellow Stock



Hot Cakes Pink Stock



Vintage Peach Stock



Vintage Copper Stock



Hot Cakes Purple Stock



Vintage Lilac Stock



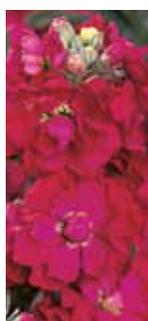
Vintage Lavender Stock



Hot Cakes Mixture Stock



Vintage Rose Stock



Vintage Red Stock

SOLANUM

See **Pot Plants**, page 168.

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 54.

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 vernalization needed.

Also available:

Antique Mixture Copper, Peach, Yellow.

Mixture

CUT FLOWER STOCK (MATTHIOLA)

Aida Series, page 188.

Column Stock, page 190.

Figaro Series, page 188.

Katz Series, page 189.

Mathilda Series, page 188.

Opera Series, page 188.

SUNFLOWER

See **Pot Plants**, page 174 and **Cut Flowers**, page 196.

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

Vine length: 6 to 8 ft./1.8 to 2 m

Seed supplied as: Raw

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.

Also available: **Clear White**



Susie White With Eye Thunbergia



Susie Clear Yellow Thunbergia



Susie Yellow With Eye Thunbergia



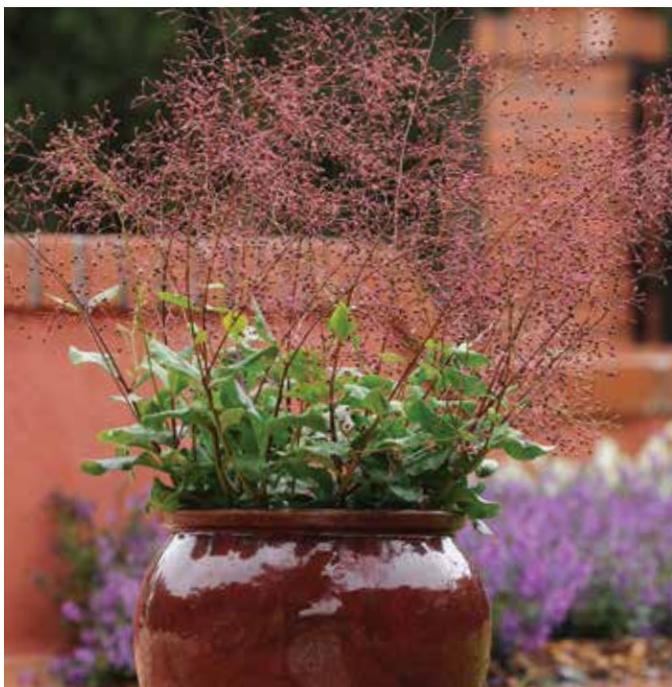
Susie Clear Orange Thunbergia



Susie Orange With Eye Thunbergia



Limón Talinum



Verde Talinum



Susie Mixture Thunbergia



Kauai Deep Blue Torenia



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

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.

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.

TRACHELIUM

See **Cut Flowers**, page 196.

VERBASCUM

See **Perennials**, page 161.

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 verbena is 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.

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

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

Merlot Mixture Strong burgundy, red and purple shades.

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 161.

Santos Purple, page 161.

VERONICA

See Perennials, page 161.



Quartz XP White



XP Silver



XP Pink



XP Red With Eye



XP Scarlet



XP Burgundy With Eye



XP Violet With Eye



XP Mixture



XP Purple *Fleuroselect Novelty*



XP Merlot Mixture



Quartz Blue



XP Waterfall Mixture



Titan Blush



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 the biggest 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

- 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.

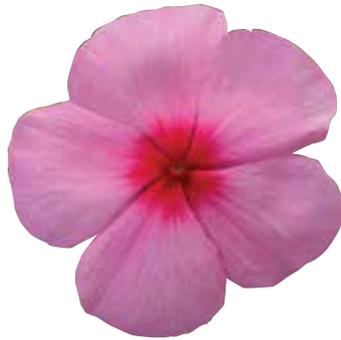
Clear Mixture Punch, Dark Red, Lilac, Burgundy, Pure White.

Romance Mixture Rose Halo, Icy Pink, Pure White.

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



Pure White



Blush



Polka Dot



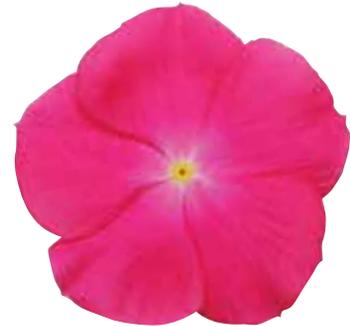
Apricot



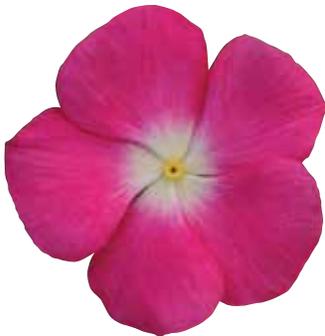
Icy Pink



Punch



Rose



Rose Halo



Dark Red



Really Red
US PAF



Burgundy



Lavender Blue Halo



Lilac



XP Lipstick Mixture



XP Merlot Mixture



XP Halo Mixture



XP Mixture



XP Mystic Mixture



XP Bold Mixture



Pacifica XP Series



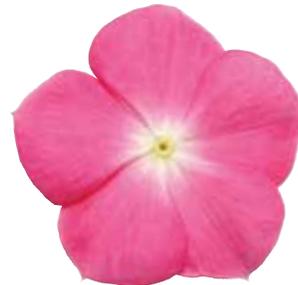
XP White



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
US PVP 200700272



UPRIGHT VINCA

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 and tolerant of cool, wet growing conditions.
- Very floriferous and well-branched plants show off bright flowers with an overlapping, fully rounded form that won't show gaps in hot temperatures.

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

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

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

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

Mystic Mixture Burgundy, White, Lilac.



XP Apricot
US PVP 9800181



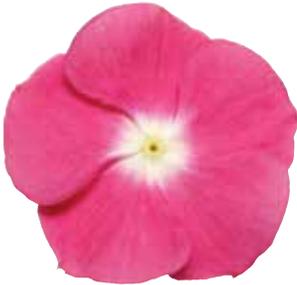
XP Icy Pink



XP Blush



Jams 'N Jellies American Pie Mixture



XP Magenta Halo
US PVP 200500216



XP Cherry Red Halo



XP Raspberry



Jams 'N Jellies Blueberry



XP Lilac



XP Deep Orchid



XP Orange



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

Jams 'N Jellies 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: 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.



XP Dark Red
US PVP 200600189



XP Really Red
US PVP 200600190



XP Cranberry



Valiant Apricot with Jolt Cherry Dianthus

***Intermediate Resistance (IR):** Plant varieties that restrict the growth and development of the specified pest but may exhibit a greater range of symptoms damage compared to high resistant varieties. Intermediately 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 June 2012.*



Pure White US 9,451,747



Apricot US 9,451,749



Orchid US 9,451,750



Lilac US 9,451,752



Punch US 9,451,751



Burgundy US 9,451,748



Mixture

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 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.
- Available in the key colours.

Orchid Slightly less vigorous than others in the series.

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

mediterranean xp



XP White US PVP 200900053



XP Peach US PVP 2009000880



XP Strawberry US PVP 200900083



XP Hot Rose US PVP 200900084



Mediterranean XP Red US PVP 200900081

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.

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

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

Lipstick Mixture Strawberry, Dark Red, Rose, White.

Mediterranean 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



XP Rose Halo



XP Red US PVP 200900081



XP Dark Red US PVP 200900043



XP Mixture



XP Lipstick Mixture



Deep Orchid



Lilac US PVP 9800182

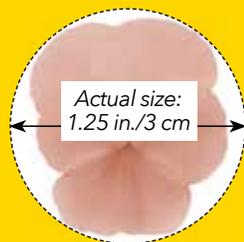


NEW

Sorbet XP Yellow Blotch Improved

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.



VIOLA

Viola cornuta

Sorbet® XP Series F1

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

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

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

Seed supplied as: Raw, Primed

Plug crop time: 4 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 - plants cover the soil at flowering, with more blooms on every plant and less stretching.
- Stays compact in both heat and cold.
- Excellent overwintering.
- Well-suited to Spring and Autumn packs and 3.5-in./9-cm pots.

New Blue Blotch Improved

Flowers 5 to 7 days earlier than original Blue Blotch in Autumn, up to 2 weeks earlier in Spring. Brighter colour and larger blotch assure better retail and garden show.

Coconut Swirl Dark, consistent picotee pattern.

New Deep Orange Deepest orange-flowered viola on the market; uniform, controlled plants for ease of production. Superior to competing varieties in colour, timing, uniformity.

Morpho Bicolour pattern changes with environment; more blue under cool Spring conditions.

New Red Blotch Best plant structure and timing of any red blotch variety for Autumn production; more branched and uniform plant and up to 1 week earlier in Autumn production than other red blotch varieties. Replaces Sorbet Standard Red Blotch.

New True Blue Best true blue *V. cornuta*. Less stretch, better plant structure and truer blue colour than competing varieties. Replaces Sorbet Blue Heaven.

New Yellow Blotch Improved

Best yellow blotch viola - 3 to 5 days earlier than original Yellow Blotch in Autumn and 7 to 10 days earlier in Spring, plus significantly more blooms per plant with larger blotch.

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

YTT Opens white, then changes to azure blue.

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

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

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.

New Blueberry Sundae Mixture XP True Blue, XP Delft and XP White. Replaces XP Blueberry Frost Mixture, XP Beaconberry Mixture.

Citrus Mixture XP Orange, XP Yellow, XP White.

Harvest Mixture XP Orange, XP Purple, XP Yellow.

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

Lemon Parfait Mixture XP White, XP Yellow, Lemon Royale.

New Ocean Breeze Mixture NEW XP Blue Blotch Improved, XP Coconut Swirl, XP Marina and XP White Blotch. Replaces Sorbet Standard Ocean Breeze Mixture.

New Raspberry Sundae Mixture XP Pink Halo, XP Raspberry and XP White Blotch. Replaces XP Orchidberry Frost Mixture.

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

Sorbet mixtures on page 136.



XP White



XP Yellow



XP Orange



NEW XP Deep Orange



XP Lavender Pink



XP Beaconsfield



XP Purple



NEW XP True Blue



XP Blackberry



XP White Blotch



XP Lemon Ice Blotch



XP Pink Halo



XP Primrose Blotch



NEW XP Yellow Blotch Improved



NEW XP Blue Blotch Improved



NEW 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 Coconut Swirl



XP YTT



XP Marina



XP Delft Blue
Fleuroselect Gold Medal



XP Violet Beacon



XP Denim Jump Up



XP Yellow Frost
RHS Award of Garden Merit



XP Morpho
Autumn/warm temperature
bloom colour



XP Morpho
Spring/cool temperature
bloom colour



XP Raspberry



XP Purple Face

sorbet[®] xp mixes



Sorbet XP Citrus Mixture



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



XP Lemon Parfait Mixture



XP Harvest Mixture



XP Jump Up Mixture



XP Blackberry Sundae Mixture

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 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 colors have good retail and home garden appeal.

Fire Colour pattern varies by environment.

New Honeybee Yellow/copper-orange bicolor; bright and sunny for Spring production. 30% more vigorous and longer peduncles than other Sorbet varieties.

Phantom Colour is darker in cool temperatures of Spring, lighter in warmer temperatures of Autumn.

New Yellow Violet Jump Up Bright violet purple caps make this "jump up" stand out over other varieties on the market. Earlier than the Sorbet XP series.



Lemon Chiffon



Lilac Ice



Icy Blue



Orchid Rose Beacon



Carmine Rose



Pink Wing



Lemon Blueberry Swirl



NEW Honeybee



Antique Shades



NEW Yellow Violet Jump Up



Fire



Ruby Gold



Midnight Glow



Phantom



Black Delight



Zahara Yellow US PVP 201500214



Sunburst Fleuroselect Gold Medal

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 mean 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.



Mixture



Bonfire Mixture



Raspberry Lemonade Mixture



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



Zahara Fire US PVP 201000090



Zahara Raspberry US PVP 201500215



Zahara Red US PVPAF



Zahara Cherry US PVPAF



Zahara XL Fire US PVP 201200484



Zahara XL Fire US PVP 201200484



Zahara XL Yellow US PVP 201200483



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



Double Zahara Yellow US PVPAF



Yellow US PVPAF



Salmon Rose US PVPAF



NEW
Mixture



Brilliant Mixture



NEW
Fire Improved All-America Selections National Winner, Fleuroselect Gold Medal, US PVPAF



Cherry All-America Selections National Winner, US 200700335



Strawberry Fleuroselect Novelty



NEW
Raspberry Ripple US PVPAF

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 the landscape, especially in sunny, hot and dry conditions.
- Intermediate size is perfect for mid-level in the landscape. Works well in containers, too.

New Fire Improved Deeper colour saturation and larger flower size than current Fire.

New Raspberry Ripple New bicolour for the series! Colour can vary under different environmental conditions. Cooler temperatures accentuate the rose; as flowers age and under more heat, the white comes out more.

Yellow Same colour as Zahara Yellow, but appears more vibrant due to double shape and high petal count.

Brilliant Mixture Yellow, Cherry, Fire.

New Mixture Cherry, Salmon Rose, Yellow, NEW Fire Improved and white (not available separately).

double zahara



NEW

Double Zahara Fire Improved All-America Selections National Winner, Fleuroselect Gold Medal, US PVPAF



Double Zahara Cherry All-America Selections National Winner, US 200700335



State Fair Mixture



Star Starbright Mixture



Star White



Star Orange

ZINNIA

Zinnia violaeae (Syn. *Zinnia elegans*)

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.

Also available: **Gold**

KieftSeed

perennials

Our Lineup Goes All-Out

Thanks to our innovative and forward-thinking breeding and production programs, you can always rely on Kieft Seed perennials for **best-in-class genetics**...exceptional seed quality...strong bench-to-garden performance...reliable availability. And of course, every product you grow and sell is **backed by our world-class service, extensive growing information and marketing support.**



**INCREDIBLY VIBRANT
& VERSATILE**

High-demand colours.
Huge flower power.
Flexible scheduling.
Perfect fit from pack to
gallon. Super shippable.
What's not to love
about this exceptional
echinacea?

**('Cheyenne Spirit',
page 150)**

**ROCKIN' THE
GARDEN!**

Vivid RED, durable
performance and count-
on-it overwintering...this
all-new dianthus opens
the door to premium
perennial sales.

**(Rockin' Red,
page 149)**





Clemantine Blue *Fleuroselect Novelty*



Clemantine Salmon Rose *Fleuroselect Novelty*



Clemantine Rose *Fleuroselect Novelty*



Winky Double Dark Blue-White



Clemantine Red



Clemantine White



Clemantine Mixture *Fleuroselect Quality Mark*



Winky Single Blue-White



Winky Single White



Winky Single Pink



Winky Single Purple-White



Winky Double Red-White *Fleuroselect Novelty*



Winky Single Red-White *Fleuroselect Quality Mark*



Winky Single Rose-Rose *Fleuroselect Quality Mark*



Winky Double Rose-White



Winky Single Early Sky Blue *Fleuroselect Novelty*



Winky Single Mixture



Winky Double Mixture

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 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.
- Mildew tolerant.
- 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 rest of series.

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.
- Mildew tolerance.
- Versatile uses.



Songbird Bluebird



Songbird Cardinal



Songbird Dove *RHS Award of Garden Merit*



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 vernalization treatment.
- Free-flowering, medium-compact plants have 1.5 to 3.5-in./4 to 9-cm blooms.

Bluebird 11 in./28 cm tall.

Cardinal 11 in./28 cm tall. Early-flowering and well-matched to Bluebird.

Dove 18 in./46 cm tall.

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 vernalization treatment.
 - Multi-stemmed plants are well-matched for uniform size, exceptional garden performance and large blooms.
 - Easy to force into flower in containers.
 - Very high bud count for more flowers per plant.
 - Taller than the Songbird varieties.
- Pink And Yellow** 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



Bellissima Rose Bellis
Fleuroselect Quality Mark



Bellissima Rose Bicolor Bellis
Fleuroselect Quality Mark



Bellissima White Bellis
Fleuroselect Quality Mark



Ballerina Mixture Armeria



Ballerina Lilac Armeria
Fleuroselect Novelty



Ballerina White Armeria
Fleuroselect Gold Medal



Spring Charm Arabis



Ballerina Red Armeria
Fleuroselect Gold Medal

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 vernalization to flower.
- Displays an abundance of large, fully double flowers.

CAMPANULA See page 148.



Early Sunrise All-America Selections National Winner, Fleuroselect Gold Medal

COREOPSIS

Coreopsis grandiflora

New! All of our coreopsis are now supplied as **primed seed** to deliver reliable plug production, improved order fill rate, uniform quality in plug trays and as a finished product, and improved margin.

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.

Sun Up

Height: 10 to 12 in./25 to 30 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: 8 to 12 weeks

- Get Spring sales off to a strong start with the first coreopsis up... the brightest yellow...the most compact!
- Early flowering and less daylength sensitive than other *Coreopsis grandiflora*.
- More naturally compact than Early Sunrise.
- Produces semi-double, clear yellow flowers all Summer long.

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.



SunKiss US PVP, EU PBR/AF



Sun Up Fleuroselect Novelty



Sunfire Fleuroselect Quality Mark



Guardian Mixture Delphinium



Rapido White Campanula



Guardian Blue Delphinium



Guardian Lavender Delphinium



Guardian White Delphinium



Rapido Blue Campanula



Diamonds Blue Delphinium



Blue Donna Delphinium



Dalmatian Crème Digitalis



Dalmatian Mixture Digitalis



Dalmatian Peach Digitalis



Dalmatian Rose Digitalis



Dalmatian Purple Digitalis
Fleuroselect Novelty



Dalmatian White Digitalis

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 pot plant programs for 4-in./10-cm pots or gallons.
- Versatile - suited to patio planters and gardens, as well as an indoor novelty pot plant.

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 shipability.

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.

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.
- Heat tolerant with low disease sensitivity.

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.

rockin' red



Rockin' the Garden!

This dynamite RED will keep perennial borders rocking for years to come, thanks to its vivid colour, durable performance and count-on-it overwintering!

DIANTHUS

Dianthus x barbatus interspecific

New Rockin' Red 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

- Rockin' Red 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.

ANNUAL DIANTHUS

See page 46.

CUT FLOWER DIANTHUS

See page 183.

NEW

Rockin' Red Dianthus

PERENNIALS

'cheyenne spirit'

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.

ECHINACEA

Echinacea x hybrida

'Cheyenne Spirit'

Height: 18 to 24 in./45 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' All-America Selections National Winner, Fleuroselect Gold Medal US 7,982,110





Wild Berry



White

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.



PowWow Wild Berry All-America Selections National Winner US 7,982,110; EU 35233





Mesa Yellow Gaillardia All-America Selections National Winner, Fleuroselect Gold Medal



'Sparkle White' Gaura All-America Selections National Winner, Fleuroselect Gold Medal

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

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 9b
(-15 to 25°F/-26 to -4°C minimum temperatures)

A First-Year-Flowering Perennial.

Seed supplied as: Raw

Plug crop time: 5 weeks

Transplant to finish: 7 to 8 weeks



Mesa Bright Bicolor Gaillardia



Mesa Red Gaillardia

- 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.

- 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.



Mesa Peach Gaillardia



Pixie Splash Gypsophila



Palace Purple Heuchera

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.

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.



Melting Fire Heuchera
Fleuroselect Novelty EU 20557

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 56.

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 White Hibiscus



Luna Pink Swirl Hibiscus



Luna Rose Hibiscus



Luna Red Hibiscus



Luna Mixture Hibiscus



Whiteout Iberis *Fleuroselect Novelty*



Ellagance Purple Fleuroselect Gold Medal



Ellagance Sky Fleuroselect Gold Medal



Ellagance Pink EU 40059



Mini Blue
Fleuroselect Novelty

LAVANDULA 🌞
Lavandula angustifolia

Ellagance Series

Height: 12 to 14 in./30 to 36 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: 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 and cold tolerant, with good tolerance to foliar diseases compared to other lavenders.
- High uniformity means harvest times are short and comparable to any vegetative variety.
- Ships well; long-flowering in perennial beds and patio planters.
- Great as a garden plant and for drying and arranging.
- Large, elegant flowers bloom all Summer and attract butterflies.

Mini Blue

Height: 10 to 20 in./25 to 51 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)

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 38 weeks overwintered)

- Compact, well-branched plants don't need trimming, ship well and won't lodge open in the garden.
- Strong and short, these spreading plants produce many eye-catching flower spikes over rich grey-green foliage.



Ellagance Ice Fleuroselect Quality Mark



Ellagance Snow Fleuroselect Novelty



Spanish Eyes

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, resists deer and rabbits.

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.

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.

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.
- 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 pot plant.

New Pink Important second color is the perfect partner to Purple. Features large, soft pink flags on spikes with deep rose flowers.



Bandera Purple Fleuroselect Gold Medal



NEW
Bandera Pink



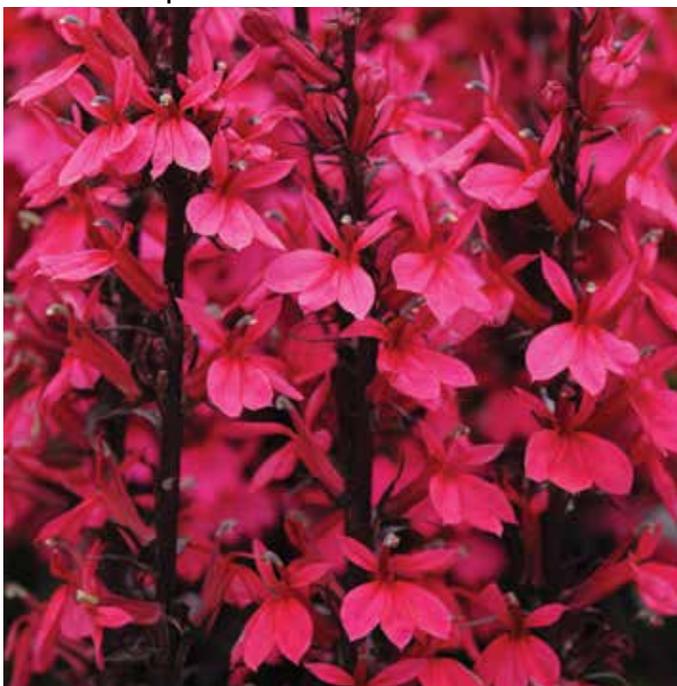
Lavance Deep Purple EU PBRAF



Starship Scarlet Lobelia with Dash White Dianthus and Diamonds Blue Delphinium



Starship Scarlet



Starship Deep Rose



Vulcan Red

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 64.



Champagne Bubbles Mixture Papaver

MYOSOTIS (FORGET-ME-NOT) 
Myosotis sylvatica

Mon Amie Blue

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

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

- Send your crop to market 3 to 6 months earlier than biannual *Myosotis* varieties as no vernalization is needed for flowering.
- Can be a good choice for annual programs and can be reliably scheduled for Auutmn or Spring.
- Media/soil pH requirements are similar to *Primula acaulis*.

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.
- Gives a colourful garden display in well-drained soil and takes the heat.

ORNAMENTAL OREGANO
New Kirigami, page 76.



Champagne Bubbles White Papaver



Champagne Bubbles Yellow Papaver



Champagne Bubbles Orange Papaver



Champagne Bubbles Pink Papaver



Champagne Bubbles Scarlet Papaver



Blue Moon Nepeta

PAPAVER (POPPY) 
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 and White.



Pink Cat Nepeta
Fleuroselect Quality Mark



Mon Amie Blue Myosotis
US PVP 200800070



Carillo Red Penstemon *Fleuroselect Gold Medal*



Carillo Purple Penstemon
Fleuroselect Novelty

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.



Electric Blue Penstemon

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.



Goldsturm Rudbeckia

blue steel



Blue Steel Fleuroselect Novelty

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 vernalization 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.



New Dimension Blue Salvia *Fleuroselect Novelty*

SALVIA ☀

Salvia nemorosa (superba)

New Dimension Series

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

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: Rose, 8 to 10 weeks; Blue, 9 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 Dimension Rose Salvia *Fleuroselect Novelty*



Patio Sky Blue Salvia *Fleuroselect Quality Mark*

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.



Patio Deep Blue Salvia *Fleuroselect Quality Mark*



Blue Note Scabiosa

ANNUAL SALVIA

See page 121.



Pink Diamonds Scabiosa *Fleuroselect Quality Mark*



Rocco Red Saxifraga

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: up to 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 127.

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.



Santos Purple Verbena



Blue Bouquet Veronica



Buenos Aires Verbena



Starry Dreams Silene
Floureselect Novelty



Southern Charm Verbascum

PanAmerican Seed®

pot plants

On Target to Hit the Trends

Welcome to our new Pot Plants section - this collection of "Gateway to Gardening" varieties lets you offer **easy décor to attract and keep today's young shopper**.

Along with outstanding PanAmerican Seed genetics in key pot plant classes - including the Revolution Collection of gerbera - we're excited to kick off the section with the **high-quality Ex-Plant lineup**. This highly respected breeding company from Denmark is now part of the global PanAmerican Seed network. Joining the **product development knowledge and breeding expertise** of these two businesses promises distributors, growers and consumers access to a unique assortment of pot plants.



FRESH & EASY

Instant WOW in every pot...little to no TLC needed...just the gerberas to inspire young shoppers!

(Revolution Bicolor Red Lemon, page 170)

CRAZY FOR COLOUR!

Fire up sales with centrepiece-worthy ornamental peppers showing off the brightest of colours.

(Acapulco® Red, page 166)



Ex-Plant joins PanAmerican Seed

The acquisition of Ex-Plant brings more than 21 years of experience in the innovative breeding, development and marketing of leading pot plant varieties including Capsicum, Solanum and Exacum. Carsten Leth will be your Global Business Manager for Pot Plants for PanAmerican Seed. The current Ex-Plant team located in Glamsbjerg, Denmark remains in place and focused on bringing exciting new genetics to market in the years to come.



NEW
Hot Carrot



NEW
Hot Tomato



NEW
Hot Fajita



NEW
Hot Banana



NEW
Hot Burrito



NEW
Hot Joker



NEW
Hot Lemon



NEW
Cosmo



NEW
Fiesta



NEW
Golden Cayenne



NEW
Habanero

**CAPSICUM (INDOOR/
OUTDOOR PEPPER)** 🌞
Capsicum annuum

Plug crop time: 3 to 4 weeks
Transplant to finish: Varies by variety

Seed supplied as: Raw

- Unique assortment from Ex-Plant breeding offers a wide range of varieties with shorter production time.
- Compact growth means no PGRs are needed.
- Good retail shelf life.
- Excellent outdoor performance.

Chill Out®

Variety	Fruit colour	Pot size	Fruit size	Height	Potting to sale (weeks)
SALES PERIOD: FEBRUARY TO SEPTEMBER					
New Cosmo	Purple	5-7.5 in./13-19 cm	0.75 x 2 in./2 x 5 cm	10-12 in./25-30 cm	16-18
New Fiesta	Red	4.5-6 in./12-15 cm	0.3 x 2.25 in./1 x 6 cm	8-10 in./20-25 cm	14-16
New Golden Cayenne	Yellow	5-7.5 in./13-19 cm	0.75 x 3 in./2 x 8 cm	12-14 in./30-36 cm	15-17
New Habanero	Orange	5-8 in./13-20 cm	1 x 1.5 in./3 x 4 cm	16-18 in./41-46 in.	18-20
New Hot Banana	Red	5-7.5 in./13-19 cm	1 x 4.5 in./3 x 12 cm	12-14 in./30-36 cm	14-16
New Hot Burrito	Red	4.5-7.5 in./12-19 cm	0.75 x 4 in./2.5 x 10 cm	10-12 in./25-30 cm	14-16
New Hot Carrot	Orange	5-7.5 in./13-19 cm	0.75 x 2.25 in./2 x 6 cm	12-14 in./30-36 cm	15-17
New Hot Fajita	Red	4.5-8 in./12-20 cm	0.5 x 4 cm/1.5 x 10 cm	10-12 in./25-30 cm	14-16
New Hot Joker®	Red	4.5-6 in./12-15 cm	0.5 x 4 cm/1.5 x 10 cm	12-14 in./30-36 cm	14-16
New Hot Lemon	Yellow	5-8 in./13-20 cm	0.5 x 1 in./1.5 x 3 cm	12-14 in./30-36 cm	15-17
New Hot Tomato	Red	5-8 in./13-20 cm	1.5 x 1.5 in./4 x 4 cm	10-12 in./25-30 cm	15-17

capsicum



NEW
Jalapeño



NEW
Torito



NEW
Yellow Tomato



NEW
Red Bell



NEW
Macho



NEW
Snack Supreme



NEW
Snack Orange



NEW
Snack Red



NEW
Snack Yellow

Variety	Fruit colour	Pot size	Fruit size	Height	Potting to sale (weeks)
SALES PERIOD: FEBRUARY TO SEPTEMBER					
New Jalapeño	Red	5-8 in./13-20 cm	0.75 x 2 in./2.5 x 5 cm	12-14 in./30-36 cm	16-18
New Macho	Red	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	15-17
New Torito	Red	4.5-6 in./12-15 cm	0.75 x 2 in./2 x 5 cm	6-8 in./15-20 cm	14-16
New Yellow Tomato	Yellow	5-8 in./13-20 cm	1.5 x 1.5 in./4 x 4 cm	12-14 in./30-36 cm	15-17
SALES PERIOD: MAY TO SEPTEMBER					
New Snack Series	3 varieties: Orange Red Yellow	5-6.5 in./13-17 cm	1.25 x 2.25 in./3.5 x 6 cm	12-14 in./30-36 cm	15-17
New Red Bell	Red	6-8 in./15-20 cm	1.5 x 1.75 in./4 x 5 cm	16-18 in./41-46 cm	15-17
New Snack Supreme	Orange	6-8 in./15-20 cm	2 x 3 in./5 x 8 cm	18-20 in./46-51 cm	15-17

capsicum



NEW
Acapulco Multicolor



NEW
Acapulco Orange



NEW
Acapulco Purple



NEW
Acapulco Red



NEW
Acapulco Yellow



NEW
Cupala



NEW
Salsa Purple



NEW
Salsa Red



NEW
Salsa Dark Orange



NEW
Coba



NEW
Joker



NEW
Salsa Mixture



NEW
Salsa Yellow



NEW
Salsa Yellow-Red



NEW
Harlequin



NEW
Paracho

Variety	Fruit colour	Pot size	Fruit size	Height	Planting to sale (weeks)
SALES PERIOD: JULY TO OCTOBER					
New Acapulco® Series	5 varieties: Multicolor Orange Purple Red Yellow	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	12-13
New Coba	Black to red	4.25 x 5 in./11-13 cm	0.75 x 1 in./2 x 3 cm	6 in./15 cm	12-13
New Cupala	Lime to red	4-4.5 in./10-12 cm	0.3 x 2.75 in./1 x 7 cm	4.5 in./12 cm	11-12
New Harlequin	Multicolour	4.5-6 in./12-15 cm	0.5 x 0.75 in./1.5 x 2.5 cm	8 in./20 cm	13-14
New Joker	Red	2.75-4.5 in./7-12 cm	0.3 x 1.5 in./1 x 4 cm	4.5 in./12 cm	11-12
New Paracho	Black to bronze	4-5 in./10-13 cm	0.3 x 1.5 in./1 x 4 cm	4.5 in./12 cm	12-13
New Salsa Series	6 varieties: Dark Orange Purple Red Yellow Yellow-Red Mixture	2.25-4.25 in./6-11 cm	0.3 x 1 in./1 x 3 cm	4 in./10 cm	12-13

capsicum



NEW
Santos Flare



NEW
Zamora Yellow



NEW
Santos Yellow



NEW
Zamora Orange



NEW
Samba XL Orange



NEW
Santos Orange



NEW
Zamora Red



NEW
Samba Yellow

Variety	Fruit colour	Pot size	Fruit size	Height	Potting to sale (weeks)
SALES PERIOD: JULY TO OCTOBER					
New Samba Series	5 varieties: Dark Orange Orange Red Yellow Mixture	4-5 in./10-13 cm	0.75 x 1.5 in./2.5 x 4 cm	6 in./15 cm	14-15
New Samba XL Series	3 varieties: Dark Orange Orange Yellow	4-5 in./10-13 cm	1 x 2 in./3 x 5 cm	4.5-6 in./12-15 cm	14-15
New Santos Series	3 varieties: Flare Orange Yellow	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	12-13
New Zamora Series	3 varieties: Orange Red Yellow	4-4.5 in./10-12 cm	0.5 x 1.5 in./1.5 x 4 cm	6 in./15 cm	12-13

solanum



NEW

Jupiter



NEW

Sagitta Lime



NEW

Saturn



NEW

Thurino



NEW

Venus



NEW

Apollo



NEW

Tucana

SOLANUM

Solanum pseudocapsicum

Plug crop time: 5 to 6 weeks

Transplant to finish: Varies by variety

Seed supplied as: Raw

- Great for Autumn and Halloween programs – can be grown outside until first frost in most areas.
- Uniform growth and easy fruit setting.
- Good shelf life.
- NOTE: Solanum are slightly toxic and should not be eaten.
- Sales period: August to November.

Variety	Fruit colour	Pot size	Fruit size	Height	Growth habit	Potting to sale (weeks)
New Apollo	Dark green to orange	2.25-4.5 in./6-12 cm	0.3-0.5 in./1-1.5 cm	5.5-6.25 in./14-16 cm	Small	20-22
New Jupiter	Lime to orange	4.25-5 in./11-13 cm	0.3-0.5 in./1-1.5 cm	6.25-7 in./16-18 cm	Medium	18-20
New Sagitta Lime	Lime to orange	3.5-4.5 in./9-12 cm	0.3-0.5 in./1-1.5 cm	5.5-6.25 in./14-16 cm	Small	18-20
New Saturn	Green to orange	4.5-6 in./12-15 cm	0.5-0.75 in./1.5-2 cm	8-9 in./20-22 cm	Large	21-23
New Thurino	Light green to orange	4.25-5 in./11-13 cm	0.5-0.75 in./1.5-2 cm	7-8 in./18-20 cm	Large	20-22
New Tucana	Dark green to orange	4.25-5 in./11-13 cm	0.5-0.75 in./1.5-2 cm	6.25-7 in./16-18 cm	Medium	20-22
New Venus	Lime to orange	2.25-4.5 in./6-12 cm	0.3-0.5 in./1-1.5 cm	5.5-6.25 in./14-16 cm	Small	18-22



NEW

Supreme

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.
- Supreme offers larger flowers and can be grown without PGRs.
- Sales period: March to October.

Variety	Colour	Pot size	Height	Potting to sale (weeks)
New Princess Series	2 varieties: Deep Blue White	4.5 in./ 10-13 cm	4.5-6 in./ 12-15 cm	10-12
New Royal Dane Series	3 varieties: Deep Blue Deep Rose White	2.25-5 in./ 6-13 cm	4.5-6 in./ 12-15 cm	10-12
New Supreme	Deep blue	4.25 x 5 in./ 11-13 cm	4.5-6 in./ 12-15 cm	10-13



L: Supreme R: Princess Deep Blue



NEW

Princess Deep Blue



NEW

Princess White



NEW

Royal Dane White



NEW

Royal Dane Deep Blue



NEW

Revolution Red with Light Eye Improved

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 consistent, fully programmable, high-density crops year-round.



Bicolor Rose White

ASTER

Pot 'N Patio Series,
see page 34.

FOLIAGE BEGONIA

Gryphon, see page 34.

CAMPANULA

Rapido Series,
see page 148.

GERBERA

Gerbera jamesonii

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

- *The most uniform gerbera you can grow!* When it comes to uniformity of flowering window across a complete colour range, Revolution is the leading standard-size pot gerbera.
- Fully programmable for high-density production year-round.
- Industry-leading seed quality.
- Better second flush of flowers than the competition assures much longer bloom time for the consumer.
- Best for 4.5 to 5.5-in./11 to 14-cm pots, quarts.

Bicolor Red Lemon Unique bicolour in gerberas.

New Red with Light Eye Improved Now offers one of the best varieties of the series for timing, plant habit and uniformity.

New Salmon Shades with Light Eye Features short stems, making it a good mix component, with shades from deep salmon to pink.

New Yellow with Light Eye Improved Best yellow variety in the series is a big improvement over older yellow varieties, with a strong colour and good uniformity.

New Bicolor Mixture Available in North America only. Includes all four on-trend bicolour varieties.

Select Mixture Uniform mix of bold, bright colours.



NEW
Bicolor Mixture



Select Mixture



Bicolor Yellow Orange

PROGRAM STANDOUTS

Make sure you include these sure-fire sellers in your Revolution Gerbera program!

- Bicolor Red Lemon
- Bicolor Red White
- Bicolor Rose White
- Bright Yellow Orange
- Bright Rose with Light Eye
- Golden Yellow with Dark Eye
- Orange with Light Eye
- NEW** Red with Light Eye Improved
- Scarlet Red with Dark Eye
- White with Light Eye
- Select Mixture



NEW Red with Light Eye Improved



Scarlet Red with Dark Eye



Orange with Light Eye



Pastel Orange with Dark Eye



Bright Rose with Light Eye



NEW Salmon Shades with Light Eye



Pink with Light Eye



Golden Yellow with Dark Eye



NEW Yellow with Light Eye Improved



White with Light Eye



Bicolor Red White



Bicolor Rose White



Bicolor Red Lemon



Bicolor Yellow Orange

mega revolution



NEW Deep Rose with Light Eye



Scarlet Red with Light Eye



Salmon Rose with Light Eye



Bright Red



Orange with Light Eye



Rose with Light Eye



Watermelon



Orange with Dark Eye



Champagne



Yellow with Dark Eye



White with Light Eye



NEW Deep Rose with Light Eye



Mega Revolution Select Mixture

GERBERA continued

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 4.75 in./10 to 12 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.

Bright Red Contains a mix of dark and light eyes.

New Deep Rose with Light Eye

Superior dark colour is great for mixes and combo pots. Colour holds very well under high light levels. Replaces Purple Shades.

Salmon Rose with Light Eye High percentage of double-petaled 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 available on the market.

Select Mixture Uniform mix of bold, bright colours.



Splash Select White Hypoestes



Splash Select Red Hypoestes



Splash Select Pink Hypoestes



Splash Select Rose Hypoestes



Sapphire Blue Lisianthus



HYPOESTES 🌞

Hypoestes phyllostachya

Splash Select Series

Height: 10 to 18 in./25 to 46 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.

LAVANDULA

Bandera Series, see page 155.

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 75.



Sapphire White Lisianthus



Sapphire Double White Lisianthus



Sapphire Blue Chip Lisianthus



Sapphire Pink Rim Lisianthus



Ballad Sunflower



Choco Sun Sunflower



Miss Sunshine Sunflower



NEW

Blaze Ornamental Pepper



Chilly Chili Ornamental Pepper

All-America Selections National Winner US 7,087,819 and 7,393,995



SUNFLOWER ☀️

Helianthus annuus

Ballad F1

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

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

Seed supplied as: Treated

Plug crop time: 2 to 3 weeks

Transplant to finish: 8 to 9 weeks

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

Choco Sun

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

Spread: 12 to 14 in./30 to 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 salable 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./7 to 10-cm blooms with a fast flush of secondary flowers.
- Perfect for mixed and mono planters.

ORNAMENTAL PEPPER 🌶️

Capsicum annuum

Seed supplied as: Raw

Plug crop time: 4 to 5 weeks

New Blaze

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

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

Transplant to finish: 7 to 13 weeks for Autumn finish

- Distinctive, large fruit starts yellow and matures to red.
- Compact determinate variety with 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

Height: 9 to 10 in./23 to 25 cm

Spread: 13 to 14 in./33 to 36 cm

Transplant to finish: 7 to 13 weeks for Autumn finish

- 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.
- Fruit starts out greenish yellow, gradually changes to orange and matures to dark red.
- Each fruit is 2 to 2.5 in./5 to 6 cm long.
- Overall plant size is about 30% larger than Medusa, with similar crop time.
- Best for quart and 4 to 6-in./10 to 15-cm finish.



Masquerade

Hot Pops Purple

Height: 4 to 5 in./10 to 13 cm
Spread: 6 to 8 in./15 to 20 cm

Transplant to finish: 7 to 13 weeks for Autumn finish

- Pump up your Autumn pot plant sales with this new fruit form and multicolours!
- Small, round peppers of both purple and orange simultaneously 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.

Masquerade

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

Transplant to finish: 7 to 12 weeks for Autumn finish

- Tapered fruit in multicolours - appear purple and orange, then mature to red.
- Good for use in containers and gardens.
- Best in quarts and 4 to 8-in./10 to 20-cm pots.
- NOTE: Fruit is hot.

Red Missile

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

Transplant to finish: 7 to 11 weeks for Autumn finish

- Compact plants offer 2-in./5-cm, tapered fruit that changes from cream to orange to bright red.
- Good for containers and gardens.
- Best in quarts and 4 to 8-in./10 to 20-cm pots.
- NOTE: Fruit is hot.



Red Missile

Medusa

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

Transplant to finish: 7 to 13 weeks for Autumn finish

- Child-safe, non-pungent fruit is colourful and twisted.
- Naturally dwarf, well-branched plants.
- Produces 2 to 2.5-in./5 to 6-cm fruit that starts ivory and turns yellow, then orange and finally bright red.
- A single plant can produce 40 to 50 fruits, displaying the entire colour range at once.
- Holds fruit well, allowing for great shelf life and long sales period.
- Dark foliage.
- Ideal for 4-in./10-cm pots.

New Wicked

Height: 6 to 8 in./15 to 20 cm
Spread: 5 to 7 in./13 to 18 cm

Transplant to finish: 7 to 13 weeks for Autumn finish

- Compact plants show extra-large fruit that starts purple and matures to red. These stunning peppers 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.

ADDITIONAL ORNAMENTAL PEPPERS

See *Annals*, page 93.



Medusa US PVP 200000140; US 7,087,819 and 7,393,995



Hot Pops Purple US 9,301,465



NEW
Wicked

PanAmerican Seed®

cut flowers

Confidence in Cuts

Respected for over 50 years for our innovative breeding and ability to consistently supply professional seed quality, we partner with you to **lower your production costs, increase your yield and successfully grow hundreds of cut flower varieties** that ship and store exceptionally...help florists create better arrangements...and ultimately put a smile on the face of the end consumer.



**DRAMATIC
DEFINITION**

Showy and bright snapdragons are the perfect choice to add height and width to floral arrangements, and create a beautiful, balanced shape.

**(Potomac Yellow,
page 194)**

**THE POWER OF
CARING & SHARING**

Produce a better product AND help fight pancreatic cancer when you grow **Katz Matthiola**. More on page 189.





Mona Lisa Mixture Anemone



Mona Lisa Wine White Bicolor Anemone



Mona Lisa White Anemone



Mona Lisa Bicolor Red Anemone



Mona Lisa Orchid Shades Anemone



Mona Lisa Pink Anemone



Silky Gold Asclepias
Fluoreslect Quality Mark



Mona Lisa Scarlet Eye Anemone



Silky Deep Red Asclepias

ANEMONE 🌞

Anemone coronaria

Mona Lisa® Series

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.

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.

Also available: **Mixture**

ASTER 🌞

Callistephus chinensis

Meteor Mixture

(Not pictured)

Height: 30 to 40 in./76 to 102 cm

Seed supplied as: Raw

Planting density: 7 plants/ft.² (78 plants/m²)

Best for: Greenhouse, high tunnel

Plug crop time: 4 to 5 weeks

Transplant to finish: 13 to 16 weeks

- Large, 3.5 to 4-in./9 to 10-cm flowers top thicker, longer stems than small-flowered varieties.
- Excellent vigour plus well-matched timing and height.
- Harvest when 2 to 3 flowers per stem have developed colour.



Campana White 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.

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.



Campana Pink Campanula



Campana Deep Blue Campanula



Campana Lilac Campanula



Grenade Orange Carthamus

FLORAL SELECTION GUIDE FOR BOUQUETS

Class/Variety	Page	Focal	Filler	Line	Volume
ANEMONE					
Mona Lisa Series	178	X			
ASCLEPIAS					
Silky Series	178		X		
ASTER					
Meteor Mixture	178		X		X
CAMPANULA					
Campana Series	179		X		X
CARTHAMUS					
Grenade Orange	179		X		X
CELOSIA					
Bombay Series	181	X			
Celway Series	182		X		
New Neo Series	180	X			
Spring Green	181	X			
Sunday Series	182		X	X	X
DELPHINIUM					
Guardian Series	148			X	
DIANTHUS					
Amazon Series	183		X		X
Bouquet Series	183		X		X
Sweet Series	184		X		X
GOMPHRENA					
Fireworks	51		X		
QIS Series	51		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	190			X	X
Figaro Series	188			X	X
Katz Series	189			X	X
Mathilda Series	188			X	X
Opera Series	188			X	X
SNAPDRAGON					
Cool Series	191			X	
Early Potomac Series	195			X	
Maryland Series	192			X	
Monaco Series	193			X	
Potomac Series	194			X	
Purple Twist	191			X	
Red Delilah	191			X	
SUNFLOWER					
Jua Series	196	X			
TRACHELIUM					
Lake Forest Series	196		X		
Lake Louise Series	196		X		
Lake Michigan Series	196		X		

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, aster 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.



NEW

Neo Orange EU 44055



NEW

Gold EU PBRAF



NEW

Orange EU 44055



NEW

Pink EU 43694



NEW

Red EU PBRAF



NEW

Rose EU 43693

Grow your margin, grow your sales

All-new 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.

CELOSIA

Celosia cristata (Cockscomb)

New 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 compared to the rest of the series.

Orange Unique color 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.



Bombay Bronze



Bombay Pink



Bombay Cherry



Bombay Green EU37645



Bombay Fidor



Bombay Figo



Bombay Filemon



Bombay Fire



Bombay Purple *Fluoreselect Gold Medal*



Bombay Fiora



Bombay Firosa



Bombay Fivio EU 28164

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 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 shipability.



Spring Green EU 18737



Sunday Gold



Sunday Yellow



Sunday Dark Pink



Sunday Orange



Sunday Red
EU 28165



Sunday Wine Red



Celway Purple



Celway White



Celway Lemon



Celway Salmon



Celway Terracotta



Celway Red



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 shipability and vase life.

Gold Brighter yellow-gold colour than Sunday Yellow.

Also available: **Mixture**

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 shipability.

Also available: **Mixture**

DELPHINIUM

Guardian Series, page 148.



Amazon Neon Cherry



Amazon Rose Magic
RHS Award of Garden Merit



Amazon Neon Purple
RHS Award of Garden Merit

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!



Bouquet Rose Magic



Bouquet Rose



Bouquet Purple

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 vernalization 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.

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

Also available: **Neon Duo** Mix of Neon Cherry and Neon Purple.

Bouquet Series F1

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

Seed supplied as: Pelleted

Planting density: 3 to 4 plants/ft.² (30 to 40 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, 11 to 14 weeks; Late Summer/Winter greenhouse, 12 to 18 weeks; Field, 18 to 23 weeks

- Lacy, slightly scented flowers top strong, well-branched stems.
 - Excellent bouquet filler with high yields of saleable stems.
 - Greenhouse-grown plants produce longer stems, with finished heights up to 36 in./91 cm.
- Rose Magic** Blooms open white and mature to light pink, then deep rose colour; most colour variation in high light and cool temperatures of outdoor production.

GOMPHRENA

Fireworks, see page 51.

QIS Series, see page 51.



Sweet Deep Pink Maxine



White



Pink Magic



Pink



Deep Pink Maxine



Coral
RHS Award of Garden Merit



Scarlet
RHS Award of Garden Merit



Purple White Bicolor



Magenta Bicolor

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

- The best commercial *D. barbatus* series available: year-round production...no vernalization needed...11 separate bright colours.
- Top-notch filler series features large, fragrant and long-lasting blooms on strong, straight stems.
- Produces high yields of saleable stems.
- Very uniform for height and flowering time.
- Excellent retail holdability.
- 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, clean white; no grey anthers.

Also available: **Mixture**

HELIANTHUS

See **Sunflower**, page 196.



Red



Purple



Black Cherry



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



Flare Deep Rose Lisianthus



Flare White Lisianthus



Flare Deep Blue Lisianthus

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, day length 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 vernalization 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 shipability and long vase life.
- Popular for both fresh and preserved cut flower production.
- Stiff stems do not require netting.

DOUBLE-FLOWERED LISIANTHUS ☀️

Eustoma grandiflorum

Flare Series F1

Height: 36 to 45 in./91 to 114 cm

Seed supplied as: Pelleted

Planting density: 8 plants/ft.² (84 plants/m²) Summer; 6 plants/ft.² (64 plants/m²) Winter

Best for: Greenhouse, high tunnel

Plug crop time: 8 to 10 weeks

Transplant to finish: Winter, 14 to 18 weeks; Spring/Autumn, 12 to 14 weeks; Summer, 10 to 12 weeks

- The best spray-type Lisianthus series - Flare produces a spray of flowers on the top of each stem that opens within a short window, giving a bouquet effect to every stem.
- Labour savings, thanks to no pinching needed.
- Full spray effect may reduce the number of stems needed for floral arrangements.



ABC 1 Purple



1 White



1 Rose Rim



1 Yellow



1 Green



1 Deep Rose



1 Misty Blue



1 Purple

DOUBLE-FLOWERED LISIANTHUS continued

ABC Series F₁

Height: 36 to 45 in./91 to 114 cm

Seed supplied as: Pelleted

Planting density: 8 plants/ft.² (84 plants/m²) Summer; 6 plants/ft.² (64 plants/m²) Winter

Best for: Greenhouse, high tunnel

Plug crop time: 8 to 10 weeks

Transplant to finish: Winter, 14 to 18 weeks; Spring/Autumn, 12 to 14 weeks; Summer, 10 to 12 weeks

- 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, day length 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



Aida Apricot Matthiola



Aida Lavender Matthiola



Aida Blue Matthiola



Mathilda Pink 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 and Opera 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./80 cm

Figaro Series

(Winter Flowering, Group 1,2)

Stem length: 30 in./75 cm

Opera Series

(Spring Flowering, Group 2)

Stem length: 32 in./80 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

Seed supplied as: Raw

Planting density: 6 plants/ft.²

(65 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

• 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.

Pink Slightly taller than White and Yellow.

Yellow Offers the best selectable yellow variety, with consistent, uniform colour.



Katz Series

EXTRA-EARLY FLOWERING TUNNEL OR FIELD-GROWN MATTHIOLA (STOCK) ☀

Matthiola incana

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.



White



Yellow



Apricot



Cherry Blossom



Pink



Bright Rose



Crimson



Light Lavender



Lavender Blue



Blue



Purple



Ruby
US PVP 201200438

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.



Column Stock Apricot



Avalanche



White Goddess



Miracle Yellow



Miracle Gold



Apricot



Appleblossom



Malmaison Pink



Pink Sweetheart



Ball Pink



Rose Pink



Miracle Crimson



American Beauty



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**



Ruby



Lilac Lavender



Pacific Blue



Miracle Mid-Blue



Purple Heart



Cool Orange (1,2)



Cool White (1,2)



Cool Pink (1,2)



Purple Twist (2)



Red Delilah (2)



Cool Yellow (1,2)



Cool Rose (1,2)



Cool Orange Bicolor (1,2)



Cool Crimson (1,2)

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

Cool Series F₁

(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.

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

Purple Twist F₁

(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 F₁

(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.



NEW

Maryland Dark Orange Improved (2)



White (2)



Bright Yellow (2)



Ivory White (1,2)



Appleblossom (2)



Shell Pink (1,2)



Yosemite Pink (1,2)



Lavender (1,2)



True Pink (1,2)



Plumblossom (2)



Royal (1,2)

Maryland Series F1

(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.

New Dark Orange Improved (Group 2) More uniform stems, thicker caliper and better taper than original. Replaces Golden Bronze and Dark Orange, allowing cut flower growers to streamline their production with one best-in-colour-class variety.

Also available: **Flamingo (1, 2)**



NEW

Dark Orange Improved (2)



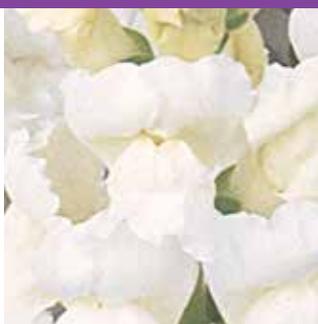
Orange (1,2)



Red (1,2)



Monaco Rose (2,3)



White (2,3)



Yellow (2,3)



Baltimore Rose (2,3)



Rose (2,3)



Violet (2,3)



Red (2,3)

Monaco Series F₁

(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.



Potomac Lavender (3,4)



White (3,4)



Ivory White (3,4)



Appleblossom (3,4)



Lavender (3,4)



Orange (3,4)



Dark Orange (3,4)



Yellow (3,4)



Pink (3,4)



Rose (3,4)

Snaps second to none

PanAmerican Seed is the world leading supplier of F1 forcing snaps, with an unsurpassed choice of top-producing varieties selected for stem and flower quality, photoperiodic response and earliness to flower. With selections 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.



Cherry Rose (3,4)



Crimson (3,4)



Red (3,4)



Royal (3,4)

Potomac® Series F1

(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.



Early Potomac Yellow (3)



Early White (3)



Early Yellow (3)



Early Orange (3)



Early Rose (3)



Early Pink (3)

Early Potomac® Series F1

(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.

STATICE

See **Limonium**, page 185.

STOCK

See **Matthiola**, page 188.



Jua Maya Sunflower



Jua Inca Sunflower



Lake Michigan White Trachelium



Lake Michigan Violet Trachelium



Lake Michigan Blue Purple Trachelium



Lake Forest Purple Trachelium



Lake Forest White Trachelium



Lake Louise White Trachelium



Lake Louise Blue Purple Trachelium



Lake Louise Purple Trachelium



Lake Michigan Purple Trachelium

SUNFLOWER ☀️
Helianthus annuus

Jua Series F1

Height: 36 to 60 in./91 to 152 cm, depending on culture

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 umbel with dark centre.

Maya Golden yellow petals with dark black centre.

TANACETUM

See *Matricaria*, page 188.

TRACHELIUM ☀️
Trachelium caeruleum

Lake Collection

Stem length: 30 to 42 in./76 cm to 1 m

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

Three distinct series offer 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 shipability. 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 Series

(Winter-Flowering)

- Transplant in Autumn to early Winter for flowering in mid-Winter to early Spring.

Lake Louise Series

(Summer-Flowering)

- Transplant in late Spring through Summer for Summer through early Autumn flowering.



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
ASTER				
Meteor Mixture	178	X	X	
CAMPANULA				
Campana Series	179	X	X	
CARTHAMUS				
Grenade Orange	179		X	X
CELOSIA				
Bombay Series	181	X		
Celway Series	182	X	X	X (3 colors)
New Neo Series	180	X		
Spring Green	181	X		
Sunday Series	182	X	X	
DELPHINIUM				
Guardian Series	148	X	X	X
DIANTHUS				
Amazon Series	183	X	X	X
Bouquet Series	183	X	X	X
Sweet Series	184	X	X	X
GOMPHRENA				
Fireworks	51	X	X	X
QIS Series	51	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	190			X
Figaro Series	188	X		
Katz Series	189		X	X
Mathilda Series	188	X		
Opera Series	188	X		
SNAPDRAGON				
Cool Series	191	X	X	
Early Potomac Series	195	X	X	
Maryland Series	192	X	X	
Monaco Series	193	X	X	
Potomac Series	194	X	X	
Purple Twist	191	X	X	
Red Delilah	191	X	X	
SUNFLOWER				
Jua Series	196		X	X
TRACHELIUM				
Lake Forest Series	196	X		
Lake Louise Series	196	X		
Lake Michigan Series	196	X		



handPicked

Fresh Ideas

PanAmerican Seed offers this novel, high-quality group of vegetables and herbs especially for those who supply fresh market farmers and hobby gardeners. What sets HandPicked varieties apart are their **fresh, home-grown flavour...exceptional fruit quality...earlier and longer harvests...**loads of produce...some with compact habits to fit smaller growing spaces.

Just as we do with our world-class flowers, we bring all of our expertise and innovation into developing, testing and selecting our HandPicked Vegetables...so that you can *grow and sell with confidence.*

Check out the full lineup at panamseed.com/HandPicked



FRESH SPINS ON MUCH-LOVED VEGGIES

Whether you supply fresh market farmers or hobby gardeners, our **HandPicked Collection** lets you hit the bull's-eye every time on novelty, nutrition and quality.

SMALL AND MIGHTY!

The Little trio thrives in small spaces...stays neat and tidy...pumps out lots of tomatoes at the peak of Summer.

(Little Napoli, page 203)



GROWING EASY!

Up your game with our all-in-one SimplyHerbs multi-pellets - fast, flavourful and fresh!

(SimplyHerbs Basil, page 210)



Gherking

GHERKIN/PICKLING CUCUMBER 🌞

Cucumis sativus

Gherking F1

Height: 6 to 12 in./15 to 30 cm
Spread: 48 to 72 in./122 to 183 cm

Seed supplied as: Raw

Days from transplant to ripe fruit: 50 to 55

Fruit size: 3 to 5 in./7 to 13 cm long

Direct sow to finish: 2 to 4 weeks; 6 to 8 weeks in tubs

- Early, large yields of bitter-free fruit; won't bitter if left on the vine.
- Parthenocarpic variety means plants produce fruit without insect pollination – good for urban gardens and high tunnel production.
- Strongly vigorous, gynoecious vining plant.
- Cylindrical, dark green gherkins with white spines are perfect for pickling and fresh eating.
- Produces well in both field and greenhouse/high tunnel; best results when trellised.
- Best in-ground.
- Excellent disease package: High resistance to Scab and Cucumber Mosaic Virus 1; Intermediate resistance to Powdery Mildew and Downy Mildew.

SLICING CUCUMBER 🌞

Cucumis sativus

Martini F1

Height: 6 to 12 in./15 to 30 cm
Spread: 48 to 72 in./122 to 183 cm

Seed supplied as: Raw

Days from transplant to ripe fruit: 55 to 60

Fruit size: 5 to 6 in./13 to 15 cm long x 1.5 to 2 in./4 to 5 cm wide

Direct sow to finish: 2 to 3 weeks

- 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; larger fruit will need peeling.
- Vining, monoecious plants are very high yielding with continuous harvest of high-quality, straight fruit.
- Staying power in the heat of Summer.
- White interior is bitter-free, very sweet and crunchy.
- Best in-ground.
- Powdery mildew resistant.

Patio Snacker F1

Height: 36 to 60 in./91 to 152 cm (trellised)

Spread: 36 to 60 in./91 to 152 cm (unstaked)

Seed supplied as: Raw

Days from sowing to harvest: 53
Days from transplant to ripe fruit: 35 to 40

Fruit size: 1.5 in./4 cm wide x 8 in./20 cm long

Direct sow to finish: 2 to 3 weeks

- Controlled yet vigorous variety produces short, branching vines.
- Direct sow and sell in large container with small trellis; works well in pack/pot programs.
- Dark green-skinned fruit has good flavour, crunchy texture and non-bitter peel.
- Free-flowering, monoecious plants are high-yielding with continuous harvest.
- Parthenocarpic variety means that plants will produce fruit without insect pollination.
- Best in-ground and in containers.



Martini



Patio Snacker

EGGPLANT 🌞

Solanum melongena

New Gretel F1

Height: 36 to 52 in./91 to 132 cm

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

Seed supplied as: Raw

Days from transplant to harvest:
55 to 60

Fruit size: 3 to 4 in./8 to 10 cm long (baby size); 4 to 6 in./10 to 15 cm long (full size)

Plug crop time: 4 to 5 weeks

Transplant to finish: 4 to 5 weeks

- Earliest white eggplant is highly productive, producing clusters of glossy mini-fruit that is tender and non-bitter.
- Indeterminate, 3-ft. (91-cm) plants have thornless leaves/calyx for easy, painless harvest; can be grown in-ground or in a large container, 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.

New Hansel F1

Height: 24 to 42 in./61 to 107 cm

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

Seed supplied as: Raw

Days from transplant to harvest:
50 to 55

Fruit size: 2 to 3 in./5 to 7 cm long (baby size); 6 to 10 in./15 to 25 cm long (full size)

Plug crop time: 4 to 5 weeks

Transplant to finish: 4 to 5 weeks

- 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 have thornless leaves/calyx for easy, painless harvest.
- Can be grown in-ground or in a large container, with or without support.

Patio Baby F1

Height: 16 to 20 in./41 to 51 cm

Spread: 18 to 22 in./46 to 56 cm

Seed supplied as: Raw

Days from transplant to ripe fruit:
40 to 45

Fruit size: 2 to 3 in./5 to 7.5 cm long and about 1 in./2.5 cm diameter

Plug crop time: 4 to 5 weeks

Transplant to finish: 4 to 7 weeks

- Unique, high-yielding, compact variety produces baby-size eggplants very early with a wide harvest window.
- Fits well into existing retail programs.
- Best in-ground and in containers.



Gretel All-America Selections National Winner



Patio Baby All-America Selections Regional Winner



Hansel All-America Selections National Winner

heirloom marriage

New twists on old garden favourites

We trialed hundreds of heirlooms for key traits like colour, flavour, quality, yield. Our favorites 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 Cherokee Carbon



Heirloom Marriage Perfect Flame

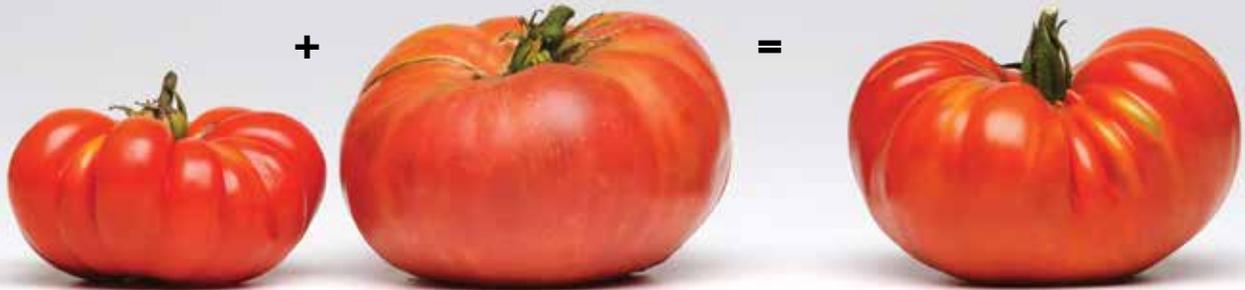


Heirloom Marriage Marzinera

TOMATO ☀️
Solanum lycopersicum
(*Lycopersicon esculentum*)

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

Seed supplied as: Raw



Costoluto Genovese

Brandywine

Heirloom Marriage Genuwine F1

	Height	Spread	Days from transplant to ripe fruit	Fruit size	Growth*	Comments
HEIRLOOM MARRIAGE™ COLLECTION						
Big Brandy F1	5-7 ft./ 1.5-2.1 m	3-4 ft./ 91 cm-1.2 m	75-80	12-15 oz./ 350-425 g	I	Big pink beefsteak is a cross of Big Dwarf x Brandywine. Best in-ground.
Cherokee Carbon F1	5-7 ft./ 1.5-2.1 m	3-4 ft./ 91 cm-1.2 m	75-80	10-12 oz./ 280-350 g	I	Robust purple beefsteak with rich flavour. A cross of Cherokee Purple x Carbon. Best in-ground.
Genuwine F1	5-7 ft./ 1.5-2.1 m	3-4 ft./ 91 cm-1.2 m	70-75	10.5-11.5 oz./ 300-330 g	I	Big red slicer tomato is a cross of Costoluto Genovese x Brandywine. Ready to harvest 12 to 19 days earlier than Brandywine! Best in-ground.
Marzinera F1	5-7 ft./ 1.5-2.1 m	3-4 ft./ 91 cm-1.2 m	70-75	2-3 oz./ 55-85 g	I	Red roma/paste tomato produces large yields of meaty fruit great for cooking. A cross of San Marzano x Cream Sausage. Best in-ground.
Perfect Flame F1	5-7 ft./ 1.5-2.1 m	3-4 ft./ 91 cm-1.2 m	65-70	3.5-4 oz./ 100-125 g	I	Orange saladette tomato with sweet-tart fruitiness is a cross of Peron x Flamme. Earliest-ripening Heirloom Marriage variety. Best in-ground.

*Growth: I = Indeterminate

tomatoes



Little Tomato Collection L to R: Little Napoli, NEW Little Bing and NEW Little Sicily

Little Collection = Big Success!

Our Little Collection features compact determinate tomato plants with a tidy habit and healthy green foliage that looks good in the store and on the patio. At less than 2 ft./ 61 cm tall, this tasty trio flourishes in mid-size containers, stays a manageable size and produces lots of tomatoes at the peak of Summer.

	Height	Spread	Days from transplant to ripe fruit	Fruit size	Growth*	Comments
SLICER TOMATO						
Homeslice F1 <i>(pictured on page 204)</i>	18-24 in./ 46-61 cm	2-3 ft./ 61-91 cm	63	5-6 oz./ 140-200 g	D	Vigorous, compact variety produces early and bountiful yields of exceptional slicers. Perfect for patio containers and small gardens. Resistant to Fusarium Race 1 and Verticillium.
New Little Sicily F1	18-24 in./ 46-61 cm	2-3 ft./ 61-91 cm	60-65	3-4 oz./ 85-110 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 trellis.
Stellar F1 <i>(pictured on page 205)</i>	2.5-3 ft./ 76-91 cm	2-3 ft./ 61-91 cm	70-75	5-7 oz./ 140-200 g	D	The perfect slicer for areas with high disease pressure: High resistance to Late Blight, Fusarium Race 2, Verticillium; Intermediate resistance to Septoria Leaf Spot, Early Blight. Highest level of disease resistance occurs when planted apart from other tomatoes. Produces lots of round, red fruit, perfect for all uses. Best in-ground; best trellised for support.
ROMA/PASTE TOMATO						
Little Napoli F1	12-18 in./ 30-46 cm	2-3 ft./ 61-91 cm	60-65	2-2.5 oz./ 55-70 g	CD	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. Resistant to Fusarium Race 1 and Verticillium.
Sunrise Sauce F1 <i>(pictured on page 205)</i>	2.5-3 ft./ 76-91 cm	2-3 ft./ 61-91 cm	55-60	3-4 oz./ 85-110 g	D	The only professional non-heirloom orange roma/paste/cooking tomato! Yields enough at one time to make sauce or salsa. Small plants are ideal for small gardens, large containers. Easy to peel, sweet and meaty, with traditional roma taste. Best flavour when cooked; can also be enjoyed fresh. Best in-ground. Resistant to Fusarium Race 1 and Verticillium.
BEEFSTEAK TOMATO						
New Tidy Rose F1 <i>(pictured on page 205)</i>	3-5 ft./ 91 cm-1.5 m	2-3 ft./ 61-91 cm	60-65	5-7 oz./ 140-200 g	CI	Popular Tidy Treats has a deep pink beefsteak companion - both remain compact like a determinate but unlike other patio types, plants produce all season like an indeterminate. Beautiful ribbed fruit with rich heirloom flavour is perfect for any culinary use. Best in containers and in-ground with support.

*Growth: I = Indeterminate, D = Determinate, CD = Compact determinate, CI = Compact-indeterminate, SD = Semi-determinate

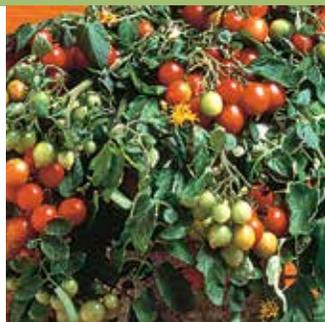
tomatoes



Orange Zinger



Micro-Tom



Tumbler



Homeslice

	Height	Spread	Days from transplant to ripe fruit	Fruit size	Growth*	Comments
CURRENT TOMATO						
Candyland Red	5-7 ft./ 1.5-2.1 m	3-4 ft./ 91 cm-1.2 m	55-60	0.5 in./ 1.25 cm	I	Stays compact and tidy so it won't take over like other sprawling currants; easy to grow and earlier, too. Branched trusses are accessible for more usable fruit with less damage while picking. Very high yield of tiny, red fruit delivers very sweet flavor bursts. Best in-ground.
CHERRY TOMATO						
Chocolate Sprinkles F1	5-7 ft./ 1.5-2.1 m	3-4 ft./ 91 cm-1.2 m	50-55	1 x 1.5 in./ 2.5 x 4 cm	I	First in this type with a disease-resistance package. Unique striped colour. Produces more fruit with better flavour than similar O.P. varieties. Best in-ground. Resistant to Fusarium Race 1, Nematodes and Tobacco Mosaic Virus.
New Little Bing F1 <i>(pictured on page 203)</i>	18-24 in./ 46-61 cm	2-3 ft./ 61-91 cm	60-65	1 in./2.5 cm	CD	Part of the Little Collection of dwarf determinate varieties. Fruit sets and ripens over a few weeks, allowing harvest of many tomatoes at one time. Yields large amounts of flavour-filled, red cherry tomatoes for fresh eating or in recipes. Best in containers, with or without trellis. Resistant to Fusarium Race 2 and Verticillium.
Micro-Tom	12-18 in./ 30-46 cm (unstaked)	12-18 in./ 30-46 cm	50	0.5-0.75 in./ 1.25-2 cm	D	Novelty variety produces an extremely dwarf plant with very compact vines covered with sweet fruit. Well-suited to 3 to 4-in./8 to 10-cm pot production. Best in containers.
New Midnight Snack F1	5-6 ft./ 1.5-1.8 m	3-4 ft./ 91 cm-1.2 m	65-70	1.5 in./4 cm	I	<i>2017 All-America Selections National Winner.</i> Unique cherry tomato ripens red with a blush of glossy black-purple on the skin when exposed to sunlight due to anthocyanin pigment - a standout at retail and on the farm stand! Produces all season, yielding well-balanced, flavourful fruit. Great in salads or eaten straight off the plant - a guilt-free treat any time. Best in-ground, grown with support.
Orange Zinger F1	5-7 ft./ 1.5-2.1 m	3-4 ft./ 91 cm-1.2 m	60	1.5 in./4 cm	I	Crack-resistant variety yields more usable fruit than Sun Gold. The high-quality, tasty, dark orange tomatoes have big tomato flavour with a balance of sweet and tangy. Best in-ground. Resistant to Fusarium Race 1 and Tobacco Mosaic Virus.
Sugar Rush F1	5-7 ft./ 1.5-2.1 m	3-4 ft./ 91 cm-1.2 m	50-55	0.75-1.25 in./ 2-3.25 cm	I	Super-sweet elongated fruit has one of the highest Brix ratings of this type. Fast-maturing and very productive all season. Long trusses of fruit with great crunch and texture. Best in-ground. Resistant to Fusarium Race 1 and Tobacco Mosaic Virus.
Tidy Treats F1	3-5 ft./ 91 cm- 1.5 m	2-3 ft./ 61-91 cm	50-55	0.75-1 in./ 2-2.5 cm	CI	Tons of fruit power on a very compact plant! Good in small space gardens and containers but unlike other patio types, continues to produce red cherry tomatoes all season. Habit like a determinate but produces like an indeterminate. Resistant to Fusarium Race 1 and Verticillium.
Topsy Tom F1	12-18 in./ 30-46 cm (unstaked)	3-6 ft./ 91 cm-1.8 m	50	1 x 1.25 in./ 2.5 x 3.25 cm	SD	Perfect for "upside down" and traditional tomato planters. Compact/mounded with pliable stems that ship well, hold the abundant fruit, won't break in wind. Continues to put out new branches with many trusses of split-resistant, sweet fruit.
Tumbler F1	12-18 in./ 30-46 cm (unstaked)	3-6 ft./ 91 cm-1.8 m	49	1.25 in./ 3.25 cm	D	A superior variety for hanging baskets and containers, with a graceful, cascading habit. Prolific, extra-early plants produce up to 6 lbs./2.7 kg of very sweet, cherry-type tomatoes.

*Growth: I = Indeterminate, D = Determinate, CD = Compact determinate, CI = Compact-indeterminate, SD = Semi-determinate

tomatoes



NEW

Tidy Rose



NEW



Midnight Snack *All-America Selections National Winner*



Tidy Treats



Sugar Rush



Candyland Red *(Fruit shown actual size)
All-America Selections National Winner*



Chocolate Sprinkles



Stellar



Sunrise Sauce



Topsy Tom

peppers

Fresh, flavourful foodie fare!

Aji peppers are well-known in South American cuisine, but can be a challenge to grow in northern regions. Aji Rico is the answer for gardeners and fresh market farmers looking for unique, in-demand flavours to spice up recipes. Our first-in-this-type hybrid hot *Capsicum baccatum* pepper has more plant vigour, higher yield and earlier ripening than other O.P. heirloom types. Loads of taste... loads of uses... loads of in-store appeal!

PEPPER 🌞

Plug crop time: 5 to 6 weeks

Transplant to finish: 4 to 7 weeks (no fruit), 7 to 9 weeks (green fruit)

Seed supplied as: Raw



Aji Rico All-America Selections National Winner



Cajun Belle All-America Selections National Winner



Candy Cane Red

peppers



NEW

La Bomba II Jalapeño



Sweet Heat



NEW

Mad Hatter All-America Selections National Winner



New & cool heats up sales!

Different. One-of-a-kind. Versatile. That's what stands out in the garden centre and at fresh markets. And that's why you'll definitely want to add Mad Hatter to your order - this intriguing specialty/hot pepper ticks the box on all counts: Looks, performance, taste and that oh-so-cool factor! This unique *Capsicum baccatum* is early and very productive, yielding more fruit than similar O.P. varieties. It won't be long until your customers are asking for Mad Hatter by name!

	Height	Spread	Days from transplant to ripe fruit	Fruit size	Fruit colour	Comments
HOT PEPPER						
New Aji Rico F1)	30-36 in./76-91 cm	36-48 in./91-122 cm	70-75 50-55 to green harvest	L: 3-4 in./8-10 cm W: 1.25-1.75 in./3-4 cm	Green to red	(<i>Capsicum baccatum</i>) 2017 All-America Selections National Winner. 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.
Cajun Belle)	24 in./60 cm	24 in./60 cm	60 45 to green harvest	L: 3 in./8 cm W: 2 in./5 cm	Green to red	(<i>Capsicum annuum</i>) Award-winning variety produces bell peppers with mildly spicy taste just right for fresh eating and salsa. Harvest green or red. Best in containers and in-ground.
New La Bomba II F1 Jalapeño)	32-40 in./81-102 cm	12-18 in./30-46 cm	65-70 50-55 to green harvest	L: 3-3.25 in./8-8.5 cm W: 1 to 1.5 in./3 to 4 cm	Green to red	(<i>Capsicum annuum</i>) Upgraded for superior disease resistance to Bacterial Leaf Spot Races 1, 2 and 3, as well as Tobacco Mosaic Virus. Performs like original La Bomba, bearing very large jalapeños with little to no checking. Best in containers or in-ground.
New Mad Hatter F1 Specialty)	36-48 in./91 to 122 cm	36-48 in./91 to 122 cm	85-90 65-70 to green harvest	L: 2-3.5 in./5-9 cm W: 2-2.5 in./5-6 cm	Green to red	(<i>Capsicum baccatum</i>) 2017 All-America Selections National Winner. 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.
Sweet Heat F1)	10 in./25 cm	14 in./35 cm	56 44 to green harvest	L: 3-4 in./8-10 cm W: 1-1.5 in./2.5-4 cm	Green to red	(<i>Capsicum annuum</i>) 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 and in-ground.
SNACK PEPPER						
New Candy Cane Red F1	18-24 in./45-61 cm	12-18 in./30-46 cm	60-65 40-45 to green striped harvest	L: 3.5-4 in./9-10 cm W: 1.25-1.75 in./3-4 cm	Green to red	(<i>Capsicum annuum</i>) Snack pepper has unique, eye-catching variegated foliage plus elongated bell peppers that ripen from green striped to solid red. Sweet flavour, thin walls, crispy texture. Perfect for fresh eating at any stage or ripeness. Best for containers or in-ground, with or without support.

) = mild)) = mildly hot))) = medium hot



NEW Cress

NEW Arugula

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

Transplant to finish: 2 to 4 weeks

Cress:

Plug crop time: 3 to 4 weeks

Transplant to finish: 3 to 4 weeks

Supplied as multi-pellets, with 3 or more seedlings per pellet. Arugula, Cress and Kale Storm Mixture are supplied as Precision Multi-Pellets.

- SimplySalad introduced the first multi-species multi-seed pellets for salad...now single-species Arugula and Cress join the lineup!

- 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.

Alfresco Mixture Red and green leaf lettuces with arugula, endive and radicchio.

New Arugula (*Eruca sativa*) 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. Precision Multi-Pellets assure high germination uniformity, making this a great variety for hydroponic systems. Height/spread: 12 to 18 in./30 to 46 cm.

City Garden Mixture Red and green lettuces.

New Cress (*Barbarea verna*) 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.

Precision Multi-Pellets assure high germination uniformity, making this a great variety for hydroponic systems. Height: 6 to 12 in./15 to 30 cm; spread: 8 to 12 in./20 to 30 cm).

Global Gourmet Mixture Red and green leaf lettuces with spicy Asian greens.

Kale Storm Mixture 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. Height/spread can reach up to 24 in./60 cm.

Summer Picnic Mixture A season extender! Heat-resistant, late-bolting mix of red and green lettuces.

Wonder Wok Mixture Mix of Asian greens including mustards, kale and bok choy.



Alfresco Mixture

Global Gourmet Mixture



Wonder Wok Mixture

Summer Picnic Mixture



Kale Storm Mixture

City Garden Mixture

SQUASH

Cucurbita moschata

Honeynut

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

Spread: 84 to 120 in./213 to 305 cm

Seed supplied as: Raw

Days from transplant to ripe fruit: 85

Fruit size: 4 to 5 in./10 to 13 cm long; 2.5 to 3 in./6.5 to 8 cm wide at neck; 3 to 4 in./8 to 10 cm wide at base

Plug crop time: 2 to 3 weeks

Transplant to finish: 2 to 3 weeks

- The first widely available small-fruited butternut squash in a high-germinating, uniform strain.
- Produces sweet, smaller fruit that are manageable to prepare.
- Higher yielding than traditional varieties.
- Best in-ground.

SQUASH (ZUCCHINI)

Cucurbita pepo

Easy Pick Series F1

Height: 36 to 52 in./91 to 132 cm

Spread: 36 to 52 in./91 to 132 cm

Seed supplied as: Raw

Days from transplant to harvest: 30 to 35

Fruit size: Harvest from a very small size with a flower attached, up to 10-in./25-cm fruit.

Plug crop time: 2 to 3 weeks (direct sow)

- Well-matched, smooth-textured duo can be grown and marketed together.
- Open habit with nearly no spines on the petioles for easy and continuous harvests with no pain.
- Simply twist to pick – less scarring and clean harvest mean longer shelf life.
- Parthenocarpic variety means that plants will produce fruit without insect pollination.
- Best in-ground.

New Gold II Offers improved disease resistance to ZYMV (Zucchini Yellow Mosaic Virus), WMV (Watermelon Mosaic Virus) and PRSV (Papaya Ring Spot Virus).

STRAWBERRY

Fragaria x ananassa

Fresca

Height: 3 to 4 in./8 to 10 cm

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

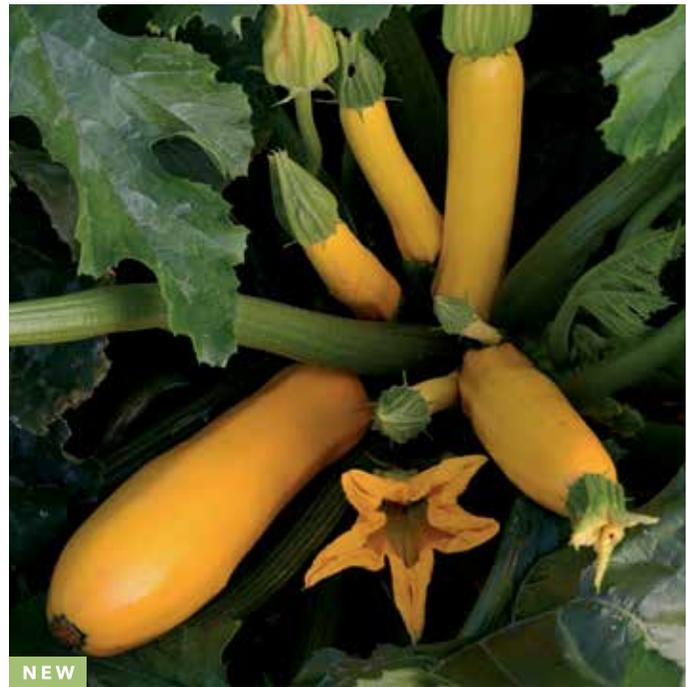
Seed supplied as: Raw

Days from transplant to ripe fruit: 85

Plug crop time: 4 to 5 weeks

Transplant to finish: 12 to 13 weeks

- Produces medium-size berries from the start of Summer through Autumn.
- Best in baskets, containers and in-ground.



EasyPick Gold II Zucchini



Easy Pick Green Zucchini



Honeynut Butternut Squash



Fresca Strawberry



(Left to right) SimplyHerbs Sage, Dill, Basil, Large-Leaf Italian Flat Leaf Parsley and Thyme

SINGLE-SPECIES MULTI-SEED PELLETS

SimplyHerbs

New! SimplyHerbs Basil, 'Try Basil' and Sage are now 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.

Other SimplyHerbs supplied as:
Multi-seed Pellets

- The easy and economical way to grow the most popular herb classes.
- One plug in a 4-in./10-cm pot gives a nice fast fill.
- No more seed broadcasting or scoops across the soil, so the risk of disease is reduced.
- Best in-ground and in containers.

SimplyHerbs Basil

Ocimum basilicum (Sweet Basil)

Height: 24 to 30 in./61 to 76 cm
Spread: 12 to 16 in./30 to 41 cm

Days from transplant to harvest: 28

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

Each pellet includes 8 to 10 seeds.

SimplyHerbs 'Try Basil'

Ocimum basilicum

Height: 24 to 30 in./61 to 76 cm
Spread: 12 to 16 in./30 to 41 cm

Days from transplant to harvest: 28

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

Each pellet includes 3 varieties (Genovese, serrated and dark red selections) with 8 to 14 seeds.

SimplyHerbs Dill

Anethum graveolens

Height: 12 to 24 in./30 to 61 cm
Spread: 10 to 16 in./25 to 41 cm

Days from transplant to harvest: 28

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

Each pellet includes 7 to 9 seeds.

SimplyHerbs Oregano

Origanum vulgare

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

Days from transplant to harvest: 28

USDA Hardiness Zones: 5a to 9b (-20 to 25° F/-29 to -4° C minimum temperatures)

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

Each pellet includes 9 to 14 seeds.



SimplyHerbs Oregano



SimplyHerbs Rosemary



SimplyHerbs 'Try Basil'



SimplyHerbs Curled Parsley

SimplyHerbs Curled Parsley

Petroselinum crispum

Height: 15 to 18 in./38 to 46 cm
Spread: 12 to 18 in./30 to 46 cm

Days from transplant to harvest: 28

USDA Hardiness Zones: 5a to 8b (-20 to 15° F/-29 to -9° C minimum temperatures)

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

Each pellet includes 7 to 9 seeds.

SimplyHerbs Large-Leaf Italian Flat Leaf Parsley

Petroselinum crispum

Height: 15 to 18 in./38 to 46 cm
Spread: 12 to 18 in./30 to 46 cm

Days from transplant to harvest: 28

USDA Hardiness Zones: 5a to 8b (-20 to 15° F/-29 to -9° C minimum temperatures)

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

Each pellet includes 7 to 9 seeds.

SimplyHerbs Rosemary

Rosmarinus officinalis

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

Days from transplant to harvest: 42

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

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

Each pellet includes 10 to 15 seeds.

SimplyHerbs Sage

Salvia officinalis

Height: 18 to 24 in./46 to 61 cm
Spread: 14 to 24 in./36 to 61 cm

Days from transplant to harvest: 28

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

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

Each pellet includes 6 to 10 seeds.

SimplyHerbs Thyme

Thymus vulgaris (Winter Thyme)

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

Days from transplant to harvest: 42

USDA Hardiness Zones: 5a to 9b (-20 to 25° F/-29 to -4° C minimum temperatures)

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

Each pellet includes 8 to 14 seeds.

other herbs



Dolce Fresca Sweet Italian Basil All-America Selections National Winner

BASIL ☀️
Ocimum basilicum

New Everleaf Genovese

Height: 18 to 24 in./46 to 61 cm
Spread: 12 to 18 in./30 to 46 cm

Seed supplied as: Raw

Days from transplant to harvest: 30 to 45

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

- The first basil bred for season-long performance and continual harvesting.
- Compact, well-branched variety with short internodes and excellent branching makes a beautiful columnar plant that stays tidy in both 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!

Dolce Fresca

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

Seed supplied as: Raw

Days from transplant to harvest: 28

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

- 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 basil flavour.
- Best in-ground and in containers.



NEW
Everleaf Genovese Basil



Sweet Dani Lemon Basil All-America Selections National Winner US PVP 9500027

Purple Ruffles

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

Seed supplied as: Raw

Days from transplant to harvest: 28

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

- Ornamental variety has fragrant, ruffled, deep purple leaves.
- About 5% of plants have purple-green leaves with mild anise flavour.
- Best in-ground and in containers.

Sweet Dani Lemon

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

Seed supplied as: Raw

Days from transplant to harvest: 28

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

- Flavourful and fragrant – up to 75% more total essential oils than standard lemon basil.
- Vigorous garden performer.
- Best in-ground and in containers.



Purple Ruffles Basil
All-America Selections National Winner



Fernleaf Dill
All-America Selections National Winner

DILL ☀️
Anethum graveolens

Fernleaf

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

Seed supplied as: Raw

Days from transplant to harvest: 28

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

- 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.

production guide



Tomato - High Tunnel Production



SimplySalad Summer Picnic Mixture - Hydroponic Trial

Class/Variety	Page	Fresh Market			Home Garden	
		Field	Hydroponic	Protected Culture	In-ground	Container
F1 GHERKIN/PICKLING CUCUMBER						
Gherking	200	X		X	X	
F1 SLICING CUCUMBER						
Martini	200	X			X	
Patio Snacker *	200				X	X
F1 EGGPLANT						
New Gretel	201	X			X	X
New Hansel	201	X			X	X
Patio Baby *	201				X	X
HOT PEPPER						
New Aji Rico F1	206	X			X	
Cajun Belle	206	X			X	X
New La Bomba II Jalapeño F1	206	X			X	X
New Mad Hatter F1	206	X			X	
Sweet Heat F1 *	206				X	X
F1 SNACK PEPPER						
New Candy Cane Red	206	X			X	X
SIMPLYSALAD						
Alfresco Mixture	208		X		X	X
New Arugula	208	X	X		X	X
City Garden Mixture	208		X		X	X
New Cress	208	X	X		X	X
Global Gourmet Mixture	208		X		X	X
Kale Storm Mixture	208	X	X		X	X
Summer Picnic Mixture	208		X		X	X
Wonder Wok Mixture	208		X		X	X
BUTTERNUT SQUASH						
Honeynut	209	X			X	
F1 ZUCCHINI SQUASH						
New Easy Pick Gold II	209	X		X	X	X
Easy Pick Green	209	X		X	X	X
STRAWBERRY						
Fresca	209				X	X
HEIRLOOM MARRIAGE F1 TOMATO						
Big Brandy	202	X			X	
Cherokee Carbon	202	X			X	
Genuwine	202	X			X	
Marzinera	202	X			X	
Perfect Flame	202	X			X	

production guide



NEW
Easy Pick Gold II Zucchini - In-ground



Little Napoli Tomato - Container

Class/Variety	Page	Fresh Market			Home Garden	
		Field	Hydroponic	Protected Culture	In-ground	Container
CURRENT TOMATO						
Candyland Red	204	X			X	
CHERRY TOMATO						
Chocolate Sprinkles F1	204	X		X	X	
New Little Bing F1 *	204					X
Micro-Tom *	204					X
New Midnight Snack F1	204	X			X	
Orange Zinger F1	204	X			X	
Sugar Rush F1	204	X			X	
Tidy Treats F1 *	204				X	X
Topsy Tom F1 *	204					X
Tumbler F1 *	204					X
F1 SLICER TOMATO						
Homeslice *	203				X	X
New Little Sicily *	203					X
Stellar	203	X			X	
F1 ROMA/PASTE TOMATO						
Little Napoli *	203					X
Sunrise Sauce	203	X			X	
F1 BEEFSTEAK TOMATO						
New Tidy Rose *	203				X	X
SIMPLYHERBS						
Basil	210	X	X		X	X
'Try Basil'	210	X	X		X	X
Dill	210	X	X		X	X
Oregano	210	X			X	X
Curled Parsley	210	X	X		X	X
Large-Leaf Italian Flat Leaf Parsley	210	X	X		X	X
Rosemary	210	X			X	X
Sage	210	X			X	X
Thyme	210	X			X	X
BASIL						
Dolce Fresca Sweet Italian	211	X	X		X	X
New Everleaf Genovese	211	X			X	X
Purple Ruffles	211	X			X	X
Sweet Dani Lemon	211	X			X	X
DILL						
Fernleaf	211	X	X		X	X

* Compact variety - best-suited to home garden use.

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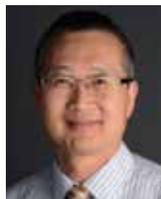
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THE POWER OF STRONG PARTNERSHIPS

While we're proud of what our outstanding variety lineup brings to your business, PanAmerican Seed and Kieft Seed are about so much more than product. Every member of our team is focused on building and maintaining lasting relationships with our customers around the world. Because, ultimately, that is what keeps all of us growing strong.

Our dedicated International Sales and Customer Service group is with you every step of the way - before, during and after the sale.

award winners

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.



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
New Eggplant Gretel
New Eggplant Hansel
 Gaillardia Mesa Yellow
 Gaura 'Sparkle White'
 African Marigold First Lady
 French Marigold Golden Gate
 Ornamental Millet Purple Majesty
 Ornamental Pepper Black Pearl
 Ornamental Pepper Chilly Chili
 Osteospermum Akila Daisy White
New Pepper Aji Rico
 Pepper Cajun Belle
New Pepper Mad Hatter
 Petunia Orchid Daddy
 Double Petunia Pirouette Purple
 Spreading Petunia Tidal Wave Red Velour
 Spreading Petunia Tidal Wave Silver
 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
New Tomato Midnight Snack
 Vinca Jams 'N Jellies Blackberry
 Vinca Pacifica XP Burgundy Halo
 Zinnia Double Zahara Cherry
New Zinnia Double Zahara Fire Improved
 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
 French Marigold Orange Boy
 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
New Zinnia Double Zahara Fire Improved
 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 Mixture
 Cosmos Sonata Pink
 Cosmos Sonata 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 Golden Gate
 French Marigold Orange Gate
 Nepeta Pink Cat
 Ornamental Pepper Black Pearl
 Spreading Petunia Tidal Wave Silver
 Phlox Ethnie Pastel Mixture
 Phlox Ethnie Velvet Red
 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



Aji Rico Pepper



Double Zahara Fire Improved Zinnia

FLEUROSELECT NOVELTY

Alyssum Clear Crystal White
 Aquilegia Clementine Blue
 Aquilegia Clementine Dark Purple
 Aquilegia Clementine Rose
 Aquilegia Clementine Salmon Rose
 Aquilegia Winky Double Red-White
 Aquilegia Winky Single Early Sky Blue
 Armeria Ballerina Lilac
 Celosia Kosmo Purple Red
 Coreopsis Sun Up
 Dahlia Figaro Original Field-Grown Mixture
 Dahlia Figaro White
 Digitalis Dalmatian Purple
 Heuchera Melting Fire
 Iberis Whiteout
 Lavandula Ellagance Snow
 Lavandula Mini Blue
 Lobelia Regatta Marine Blue
 Lobelia Regatta Sapphire
 Lobelia Regatta Sky Blue
 Lobelia Riviera Blue Splash
 Lobelia Riviera White
 French Marigold Bonanza Deep Orange
 Penstemon Carillo Purple
 Perovskia Blue Steel
 Phlox Promise Lilac
 Phlox Promise Pink
 Phlox Promise Scarlet
 Salvia Lighthouse Purple
 Salvia New Dimension Blue
 Salvia New Dimension Rose
 Silene Starry Dreams
 Verbena Quartz XP Purple
 Zinnia Double Zahara Strawberry
 Zinnia Zahara Starlight Rose

ROYAL HORTICULTURAL SOCIETY AWARD OF GARDEN MERIT

Alyssum Easter Bonnet Lavender
 Alyssum Easter Bonnet Violet
 Aquilegia Songbird Dove
 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
 Sunflower (Helianthus) Ballad
 Viola Sorbet XP Yellow Frost

protection information

U.S. UTILITY PATENTS

US 5,986,188

Impatiens Super Elfin® XP Red Starburst
Impatiens Super Elfin® XP Violet Starburst

US 7,087,819 and US 7,393,995

Ornamental Pepper Chilly Chili
Ornamental Pepper Medusa

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

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 Improved
Petunia Easy Wave® Berry Velour
Petunia Easy Wave® Burgundy Velour
Petunia Easy Wave® Red Velour
Petunia Sophistica® Antique Shades
Petunia Sophistica® Blackberry
Petunia Sophistica® Lime Bicolor
Petunia Sophistica® Lime Green
Petunia Sophistica® Twilight
Petunia Tidal Wave® Red Velour

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 9,320,212

French Marigold Hot Pak Gold

US 9,326,464

French Marigold Hot Pak Harmony

US 9,326,465

French Marigold Hot Pak Yellow

US 9,326,466

French Marigold Hot Pak Spry

US 9,326,467

French Marigold Hot Pak Orange

US 9,326,468

French Marigold Hot Pak Flame

US 9,451,747

Vinca Valiant Pure White

US 9,451,748

Vinca Valiant Burgundy

US 9,451,749

Vinca Valiant Apricot

US 9,451,750

Vinca Valiant Orchid

US 9,451,751

Vinca Valiant Punch

US 9,451,752

Vinca Valiant Lilac

USPP 26,697

Calibrachoa Kabloom® Deep Blue

USPP 26,483

Calibrachoa Kabloom® White

USPP 26,516

Calibrachoa Kabloom® Yellow

U.S. PATENTS APPLIED FOR

French Marigold Fireball
French Marigold Strawberry Blonde
Pentas Glitterati Purple Star
Vinca Titan Really Red

EUROPEAN COMMUNITY PLANT BREEDER'S RIGHTS

Celosia Bombay Green - EU 37645
Celosia Neo Orange - EU 44055
Celosia Neo Pink - EU 43694
Celosia Neo Rose - EU 43693
Celosia Spring Green - EU 18737
Celosia Sunday Red - EU 28165
Echinacea PowWow® Wild Berry - EU 35233
Heuchera Melting Fire - EU 20557
Lavandula Ellagance Pink - EU 40059

EUROPEAN COMMUNITY PLANT BREEDER'S RIGHTS APPLIED FOR

Celosia Neo Gold
Celosia Neo Red
Coreopsis SunKiss
Lavandula Lavance Deep Purple

INTERNATIONAL (PCT)

French Marigold Fireball
French Marigold Strawberry Blonde

U.S. PLANT VARIETY PROTECTIONS

Celosia Kosmo Pink - 200400022
Coleus Kong® Red* - 200500015
Coleus Kong® Rose* - 200500017
Coleus 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
Vinca Jams 'N Jellies Blackberry - 201100526
Vinca Mediterranean XP Dark Red - 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 Mediterranean XP Lilac - 9800182
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 Zahara® Fire - 201000090
Zinnia Zahara® Raspberry - 201500215
Zinnia Zahara® White - 201400297
Zinnia Zahara® Yellow - 201500214
Zinnia Zahara® XL Fire - 201200484
Zinnia Zahara® XL Pink - 201200482
Zinnia Zahara® XL White - 201200485
Zinnia Zahara® XL Yellow - 201200483

U.S. PLANT VARIETY PROTECTIONS APPLIED FOR

Coreopsis SunKiss
Ornamental Oregano Kirigami
Zinnia Zahara® Cherry
Zinnia Zahara® Red
Zinnia Double Zahara Cherry
Zinnia Double Zahara Fire Improved
Zinnia Double Zahara Raspberry Ripple
Zinnia Double Zahara Salmon Rose
Zinnia Double Zahara Yellow

EUROPEAN UTILITY PATENTS APPLIED FOR

Fuseables® Petunia Blueberry Lime Jam
Fuseables® Petunia Lime Coral
Petunia Debonair Black Cherry
Petunia Debonair Dusty Rose
Petunia Debonair Lime Green Improved
Petunia Easy Wave® Berry Velour
Petunia Easy Wave® Burgundy Velour
Petunia Easy Wave® Red Velour
Petunia Sophistica® Antique Shades
Petunia Sophistica® Blackberry
Petunia Sophistica® Lime Bicolor
Petunia Sophistica® Lime Green
Petunia Sophistica® Twilight
Petunia Tidal Wave® Red Velour

* Bred by Sakata Seed Corporation.

terms & conditions of sale

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 1% per month finance charge (12% 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:

West Chicago

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.

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 FOREIGN SHIPMENTS MUST BE SHIPPED IN COMPLIANCE WITH THE FOREIGN CORRUPT PRACTICES ACT AND THE UK BRIBERY ACT.

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6 PLUG & PLAY



28 ANNUALS



142 PERENNIALS



162 POT PLANTS



176 CUT FLOWERS



198 HANDPICKED

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PLANT PROTECTION

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EU 10351, etc.: European Community Plant Variety Rights

EU PBRAF: European Community Plant Variety Rights Applied For

EU PAF: European Utility Patents Applied For

PCT: International Patent Applied For

US 7,915,504, etc.: U.S. Utility Patents

PPAF, US PAF, PAF, US PAF: U.S. Patents Applied For

US PVP 9500027, etc.: U.S. Plant Variety Protections

US PVPAF: U.S. Plant Variety Protections Applied For

PanAmericanSeed.
KieftSeed

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