Ball FloraPlant®

# 2012 Catalog

**Commitment.** What does it mean to you? For Ball FloraPlant, it means never forgetting our roots! That's why we stand firmly behind long-time favorites…consistently developing, improving and supporting "best of the best" genetics to bring innovation and imagination to classics like geraniums. We've made many exciting breakthroughs in breeding, production and logistics to help ensure your success as a grower. And you can count on dedicated product reps and sales reps working right alongside you to help your business thrive!

Speaking of success, be sure to read about Genesis cuttings in this catalog. We've improved the production planning and profitability of growing geraniums – and now are doing the same for osteos. Every advance at Ball FloraPlant is made with your success in mind – thanks for inspiring us!

# From cutting to crop, we're with you all the way.

**Ball FloraPlant Sales Manager Jim Kennedy (second from the right) works side by side with team members Jason Fatten, Vicky Baughman and Ron Brum to bring you the "best of the best" in everything you grow.**

You've probably heard it said that "there is nothing new under the sun." But at Ball FloraPlant, fresh colors and varieties unfold all the time, bringing new life to old favorites. . .like angelonias, osteos and geraniums. Bigger blooms, better uniformity and breathtaking colors – they're right here in these pages.

There's even more, though, between the lines.

Every innovation comes to you after months – even years – of research and trials by dedicated breeders and technicians.

And you have our promise to help you achieve the highest quality, most profitable plants. Let Sales Manager Jim Kennedy tell you what's behind that promise:

"Our **technical team** visits Ball FloraPlant's rooting stations on a regular basis to ensure that you get nothing but the very best product. Our **rooting stations** provide a constant proving ground for the quality of our cuttings.

"Ball FloraPlant's **product managers and breeders** work hand in hand to select the right products for growers in all regions. And our **product reps** support you all the way to finishing your crop."

The marriage of **innovation and commitment** makes Ball FloraPlant THE source for dedicated growers like you. You can count on us to provide the varieties, cultures and schedules to ensure your continued success.

On front cover:
NEW Presto Series Geranium

Ball FloraPlant®

# NEW Mix Masters

## Grow winning combos *your* way!

High Voltage

Pixie Dust

**High Voltage**
**Retail ready:** Early Spring to mid-Spring
Osteospermum Voltage Yellow
Verbena Aztec Red Velvet

**Pixie Dust**
**Retail ready:** Early Spring to mid-Spring
Petunia Pinstripe
Petunia Sun Spun White
Verbena Aztec Silver Magic

**Tropical Punch**
**Retail ready:** Early Spring to Summer
Calibrachoa Cabaret Cherry Rose Improved
Calibrachoa Cabaret Purple
Calibrachoa Can-Can Orange

**The industry's most flexible mixed container program – choose from multiple product forms. • 15 trialed and tested combos feature Ball FloraPlant's exclusive new and proven varieties. • Each combo is created for compatibility in habit, vigor and timing.**

It's never been easier to grow stunning mixed containers! With MixMasters, you can order whatever form best suits your growing needs. If you want the lowest input cost, order your MixMasters as unrooted cuttings. Want to reduce your labor time and ensure more uniform rooting? Opt for high-density (207) or standard (102) liners. Or for the quickest turns, go with prefinished plants. Named recipes make selection and ordering easy – especially when you use WebTrack℠. And you can trust MixMasters to deliver a luscious look that captivates retailers and consumers!

Tropical Punch

Bubble Bath

**Bubble Bath**
**Retail ready:** Mid-Spring to Summer
Double Impatiens Fiesta Sparkler Hot Pink
Euphorbia Breathless White

**Beach Baby**
**Retail ready:** Early Spring to mid-Spring
Petunia Sun Spun Yellow
Lobelia Waterfall Blue

**Betsy Ross**
**Retail ready:** Early Spring to Summer
Petunia Suncatcher Midnight Blue
Petunia Suncatcher Red
Petunia Suncatcher White

Beach Baby

Betsy Ross

Candle Light

**Candle Light**
**Retail ready:** Early Spring to Summer
Petunia Phantom
Petunia Sun Spun Yellow

**Evening Gown**
**Retail ready:** Early Spring to Summer
Petunia Black Velvet
Euphorbia Breathless White
Gaura Ballerina White

**Orange Blush**
**Retail ready:** Mid-Spring to Summer
Coleus Lava Rose
Calibrachoa Can-Can Orange
Euphorbia Breathless Blush

Evening Gown

Orange Blush

Shades of Pink

**Shades of Pink**
**Retail ready:** Mid-Spring to Summer
Double Impatiens Fiesta Apple Blossom
Double Impatiens Fiesta Stardust Pink

**Raspberry Summer**
**Retail ready:** Early Spring to Summer
Petunia Suncatcher Burgundy
Petunia Suncatcher Yellow

**Spirits United**
**Retail ready:** Early Spring to Summer
Calibrachoa Cabaret Deep Blue
Calibrachoa Cabaret Scarlet
Calibrachoa Cabaret White

Raspberry Summer

Spirits United

Sunny Side Up

**Sunny Side Up**
**Retail ready:** Early Spring to mid-Spring
Osteospermum Voltage Yellow
Petunia Sun Spun White

**Twinkle Toes**
**Retail ready:** Early Spring to Summer
Petunia Sun Spun Yellow
Petunia Sun Spun Burgundy
Petunia Sun Spun Lavender Star

**You're So Fresh!**
**Retail ready:** Early Spring
Osteospermum Voltage Yellow
Diascia Romeo White
Lobelia Waterfall Blue

Twinkle Toes

You're So Fresh!

BallFloraPlant

# NEW Archangel™

## Biggest blooms, strongest habit, best sell-through

NEW Archangel Pink

NEW Pink

NEW Purple

NEW Raspberry

NEW White

**ANGELONIA**
*Angelonia angustifolia*

**New Archangel™ Series**
**Height:** 12 to 14 in. (30 to 35 cm)
**Spread:** 10 to 12 in. (25 to 30 cm)
**A Simply Beautiful® selection**

**The biggest flowers for big visual impact, even from a distance! • Well-branched, sturdy plants withstand shipping with less breakage, shrinkage and tangling. • Uniform habit and flowering time make production easy.**

The most generous blooms, vibrant colors, glossy dark green foliage – Archangel delivers the biggest Summer impact at retail and in the landscape! Easy to produce following standard culture, Archangel boasts a more robust habit and flowers three times larger than other varieties. This well-branched beauty is suitable for high-density production and thrives in extreme heat, humidity and drought. Works well in 4.5-in. (11-cm), 6-in. (15-cm) and quart programs.

**Archangel is not your average angelonia: look at the size of these flowers which are three times bigger than other varieties!**

Ball FloraPlant®

# AngelMist®

## Beautiful in any setting, any weather

AngelMist White

**Spreading Varieties**

**ANGELONIA**
*Angelonia angustifolia*

## AngelMist® Series

**Thrives through extreme heat, humidity and drought. • Offers the most colors and habits in Angelonia. • Works well in every sunny setting: baskets, containers and in-ground plantings.**

**Spreading varieties:**
**Height:** 4 to 10 in. (10 to 25 cm)
**Spread:** 12 to 20 in. (30 to 50 cm)
**A Simply Beautiful® selection**

**AngelMist Spreading Varieties** are unique to the Ball FloraPlant product offering. These spreading angelonias provide a low-growing, free-flowering habit with exceptional tolerance of a wide range of environmental conditions, making them the best choice for landscape applications, Summer color bowls and hanging baskets.

*AngelMist Spreading Purple Improved excelled at six university trials in 2010, scoring a perfect 5 rating at the University of Wisconsin.*

**AngelMist Varieties**

**AngelMist varieties:**
**Height:** 14 to 24 in. (35 to 60 cm)
**Spread:** 10 to 14 in. (25 to 35 cm)
**A Simply Beautiful® selection**

**AngelMist Varieties** offer a more vigorous habit ideal for larger mixed containers. Purple Stripe is the most vigorous of the AngelMist varieties.

*Top sellers: Deep Plum, Purple, White*

*AngelMist Dark Pink named Leader of the Pack – top all season long performance – at North Carolina State University in 2010.*

# Madeira™

Grenadine Alternanthera

Butterfly Argyranthemum

Madeira Deep Pink Improved Argyranthemum

**ACHILLEA**
See Perennials, page 83.

**AGASTACHE**
See Perennials, page 83.

**AJUGA**
See Perennials, page 83.

**ALTERNANTHERA**
*Alternanthera spp.*

## Grenadine

**Height:** 14 to 18 in. (35 to 45 cm)
**Spread:** 12 to 18 in. (30 to 45 cm)
Upright, mounded shade lover boasts eye-catching burgundy leaves with hot pink veins. Well-suited to landscapes and also works well in mixed containers.

**ARGYRANTHEMUM**
*Argyranthemum frutescens*

## Butterfly

**Height:** 14 to 18 in. (35 to 45 cm)
**Spread:** 12 to 16 in. (30 to 40 cm)
**A Simply Beautiful® selection.**
Upright, mounded and well-branched plants with long-lasting yellow flowers. Perfect for Summer and Autumn programs.

## Madeira™ Series

**Height:** 12 to 18 in. (30 to 45 cm)
**Spread:** 16 to 20 in. (40 to 50 cm)
**A Simply Beautiful® selection.**
**The most colors and flower forms, and uniform across every one.** Growing and selling argys has never been easier: The earliest-flowering and most well-branched series on the market, Madeira is consistent and compact across all colors. The well-matched habit, flowering and branching make the series ideal for bench-run programs. Count on fast, full plants in 6-in. (15-cm) pots to gallons and larger. The vigorous, upright plants work well in full-sun gardens, landscapes, mixed containers and planters. Low-energy cool crop is great for Spring programs.

MADEIRA is a trademark of Bonza Botanicals, Pty., Ltd.

**ARTEMISIA**
See Perennials, page 84.

**ASTER**
See Perennials, page 84.

*Low energy production*

Madeira Crested Yellow

Madeira Cherry Red

Madeira Red

Madeira Deep Pink Improved

Madeira Pink

Madeira Double White

Madeira Primrose

Madeira White

Madeira Crested Merlot

Madeira Crested Violet

Madeira Crested Ivory

# Abunda™

Abunda Colossal Sky Blue

Colossal White

Pink

Colossal Sky Blue

Giant White

**BACOPA**
*Sutera cordata*

## Abunda™ Series

**Height:** 8 to 12 in. (20 to 30 cm)
**Spread:** 8 to 12 in. (20 to 30 cm)
**A Simply Beautiful® selection.**
**Dark green-leafed plants put on a huge retail show.** With the best heat tolerance and basal branching of any bacopa, Abunda delivers great all-season performance in baskets and combos. The rich, deep foliage color contrasts dramatically with the soft, beautiful flower colors. Daylength-neutral plants bloom quickly during short and long days. Big-flowered **Giant White** is the most free-flowering, heat-tolerant and versatile bacopa on the market, and is ideal for mixed containers and hanging baskets. The **Colossal** varieties offer larger flowers and a slightly more upright habit, making them suitable for pot-tight production and smaller containers. More responsive to Cycocel, Colossal varieties are the best choice for higher-density production. **A "2 for 1" series – pay for one unrooted cutting, get two to plant. See inside back cover.**

NEW Colossal Blue produces big, deep blue flowers on a semi-upright habit.

NEW Colossal Blue

*Low landscape/consumer water needs*
*Low energy production*

NEW Sunbeam Bidens

Enduring Blue Brachyscome

Amethyst Brachyscome

Sun Kiss Bidens

Basket Bon Bon Bracteantha

**BIDENS**
*Bidens ferulifolia*

### New Sunbeam

**Height:** 10 to 14 in. (25 to 35 cm)
**Spread:** 14 to 24 in. (35 to 60 cm)
**A Simply Beautiful® selection**
This new addition is an ideal counterpart to the very compact Sun Kiss. Great vigor, early-season color and cool growing options make Sunbeam a must-have for Spring programs. Good for larger baskets and combinations.

### Sun Kiss

**Height:** 6 to 8 in. (15 to 20 cm)
**Spread:** 6 to 8 in. (15 to 20 cm)
**A Simply Beautiful® selection.**
Compact, controlled plants require minimal PGRs. Early flowering for fast turns and early-season sales. Bright yellow blooms, feathery dark green leaves and short internodes combine to make great-looking small mixed containers and baskets.

**BOLTONIA**
See Perennials, page 84.

**BRACHYSCOME**
*Brachyscome hybrida*

### Amethyst

**Height:** 12 to 18 in. (30 to 45 cm)
**Spread:** 10 to 14 in. (25 to 35 cm)
The small, lavender blue flowers contrast beautifully with dark green foliage. Best in early-season containers, or landscapes in cooler coastal areas. **A "2 for 1" series – pay for one unrooted cutting, get two to plant. See inside back cover.**

### Enduring Blue

**Height:** 4 to 6 in. (10 to 15 cm)
**Spread:** 8 to 12 in. (20 to 30 cm)
**A Simply Beautiful® selection.**
Finely textured foliage and small, blue flowers all season on compact and upright, mounded plants. More compact than Amethyst, Enduring Blue is a great performer in mixed containers and landscapes in cooler coastal areas.
**A "2 for 1" series – pay for one unrooted cutting, get two to plant. See inside back cover.**

**BRACTEANTHA**
*Bracteantha bracteata*

### Basket Bon Bon

**Height:** 6 to 8 in. (15 to 20 cm)
**Spread:** 10 to 12 in. (25 to 30 cm)
Strong lateral branching and unique spreading habit make this strawflower great for hanging baskets. Covered with an abundance of yellow flowers. Perfect for Autumn programs.

# Dreamtime®

## A blast of bold color on a compact plant

Dreamtime Jumbo Red Ember

Jumbo Light Pink

Jumbo Yellow

Jumbo Pure White

Jumbo Red Ember

**Dreamtime® Series**
**Height:** 10 to 12 in. (25 to 30 cm)
**Spread:** 10 to 12 in. (25 to 30 cm)
**A Simply Beautiful® selection.**

**More controlled and mounded than other strawflowers. • Perfect for high-density programs. • Hold up in cool and heat – grow them early and late.**

Large-bloomed Dreamtime varieties work well in pot-tight, bench-run programs in 4 and 4.5-in. (10 to 11-cm) pots, and hold their shape from greenhouse to garden. The plants show an abundance of colorful flowers above the foliage for high-impact retail displays plus season-long shows in pots, planters, baskets and borders.

*Dreamtime Jumbo Red Ember was Silver Medal Winner for 2010 at the University of Illinois Extension Idea Garden.*

DREAMTIME is a registered trademark of Bonza Botanicals Pty., Ltd.

*Low energy production*

BallFloraPlant®

# Cabaret®

# The clear choice for super-uniform performance

MixMasters Spirits United contains Cabaret Deep Blue, Cabaret Scarlet and Cabaret White

See pages 2-7 for more stunning MixMasters mixed containers!

**CALIBRACHOA**
*Calibrachoa x hybrida*

**Cabaret® Series**
**Height:** 6 to 10 in. (15 to 25 cm)
**Spread:** 10 to 12 in. (25 to 30 cm)
**A Simply Beautiful® selection.**

**Highly programmable and well-matched for timing, habit and flower size. • Rich two-toned colors make striking mixed and mono plantings. • Cabaret puts on a great show at retail, staying open and in flower even under low light conditions.**

Uniform and dark green-leafed Cabaret produces well-branched, mounded and trailing plants with full centers and abundant blooms – excellent for pots, baskets, and planters. This early-blooming plant tolerates cool temperatures. Foliage will stay green longer than other calibrachoas under higher pH, so plants look healthy and lush all season.

NEW Pink Vein features novel two-toned flowers and the same matched habit and flowering time of Cabaret.

*Cabaret Hot Pink, Light Pink, White and Lavender received excellent ratings for 2010 at Penn State University.*

Light Pink

Cherry Rose

NEW Pink Vein

Deep Blue

Hot Pink

Purple Glow

Purple

Rose

Lavender

Scarlet

Mango Tango

White

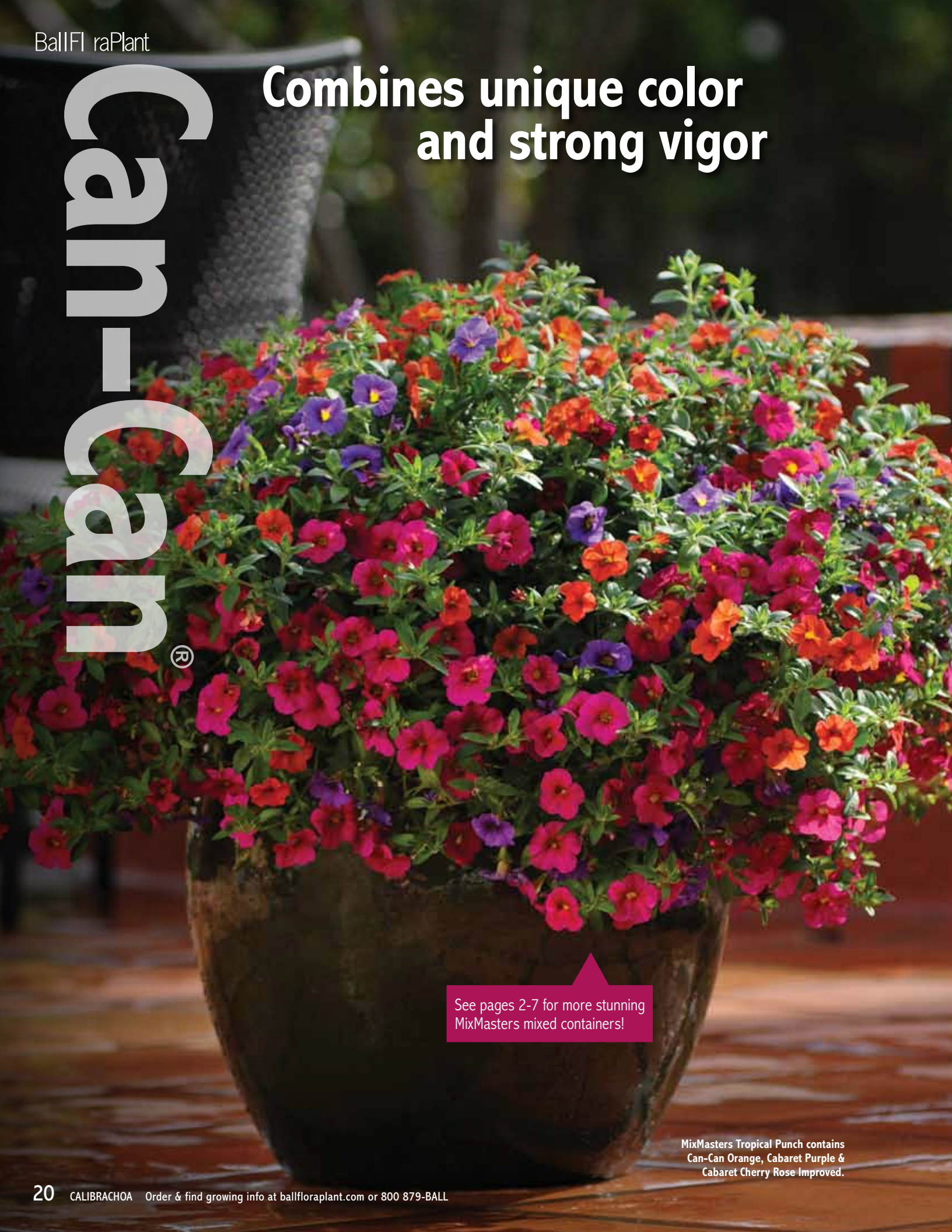
Red

Yellow

BallFl raPlant

# Can-Can®

## Combines unique color and strong vigor



See pages 2-7 for more stunning MixMasters mixed containers!

MixMasters Tropical Punch contains Can-Can Orange, Cabaret Purple & Cabaret Cherry Rose Improved.

NEW Rose Star

Terracotta

Orange

Apricot

Mocha

**Can-Can® Series**
**Height:** 10 to 15 in. (25 to 38 cm)
**Spread:** 10 to 15 in. (25 to 38 cm)
**A Simply Beautiful® selection.**

**One-of-a-kind colors make customer-catching displays with open flowers under all retail light level settings. • Selected for use in mixed containers and hanging baskets. • Strong adaptability; stands up to harsh conditions.**

Gardeners and landscapers know calibrachoa and these super-splashy colors will drive sales! For uniformity, nothing beats Cabaret. Can-Can grows more vigorously than Cabaret, yet offers many of the same great features: Highly programmable plants, consistent pH tolerance, dark green foliage, tip-to-top flower coverage and season-long performance. Partners well with many other sun-loving annuals.

NEW Rose Star has a stable and strong flower pattern under high light conditions.

*Can-Can Mocha named "Best of the Best" in 2009 at University of Georgia and rated excellent in 2010 at Penn State University.*

Strawberry

# Coleus

## Well-matched habit, all season long

NEW Wasabi

**COLEUS**
*Solenostemon scutellarioides*

**Stunning colors and patterns for full sun and shade. • Premium series is excellent for landscaping. • Fast and easy to grow for high impact at retail.**

Selected for their outstanding performance and vigor, our premium coleus collection is well-matched for habit, with a variety of textures and contrasts. These low-maintenance plants make a high-impact addition to large pot programs.

Indian Summer, Henna, Redhead and Trusty Rusty all named among the best for 2009 and 2010 at Penn State University.

NEW Wasabi wakes up the landscape with a burst of intense chartreuse. NEW Sultana adds drama with large leaves in striking patterns.

Redhead

NEW Sultana

Electric Lime

Mint Mocha

Henna

Indian Summer

Trusty Rusty

### New Wasabi
**Height:** 18 to 28 in. (45 to 70 cm)
**Spread:** 16 to 28 in. (40 to 70 cm)
**A Simply Beautiful® selection**
Durable and rugged for a coleus, Wasabi's serrated chartreuse leaves hold their brilliant color without fading or spotting. Looks great with Redhead.

### New Sultana
**Height:** 18 to 28 in. (45 to 70 cm)
**Spread:** 16 to 24 in. (40 to 60 cm)
**A Simply Beautiful® selection**
Large scalloped leaves combine a deep burgundy center with chartreuse netting pattern at the edges. Similar in vigor to Henna, with a beautiful habit.

### Redhead
**Height:** 18 to 24 in. (45 to 60 cm)
**Spread:** 28 in. (70 cm)
**A Simply Beautiful® selection.**
A 'must-have' color for any collection. Redhead displays bright red leaves that are the truest red color of our collection.

### Henna
**Height:** 22 to 28 in. (55 to 70 cm)
**Spread:** 14 to 16 in. (35 to 40 cm)
**A Simply Beautiful® selection.**
Very uniform with serrated foliage in a unique chartreuse to copper color complemented by dark burgundy undersides.

### Electric Lime®
**Height:** 14 to 20 in. (35 to 50 cm)
**Spread:** 16 to 24 in. (40 to 60 cm)
**A Simply Beautiful® selection.**
Bright lemon-lime leaves electrify the shade and don't fade in sun. *2010 Mississippi Medallion Winner.* ELECTRIC LIME is a registered trademark of Florida Foundation Seed Producers, Inc.

### Indian Summer
**Height:** 18 to 24 in. (45 to 60 cm)
**Spread:** 14 to 16 in. (35 to 40 cm)
**A Simply Beautiful® selection.**
Multi-color leaves are earthtone red, green and brown. Color deepens in high light.

### Mint Mocha
**Height:** 18 to 24 in. (45 to 60 cm)
**Spread:** 14 to 16 in. (35 to 40 cm)
**A Simply Beautiful® selection.**
Multi-color ducksfoot-type foliage is green with mottled yellow and red flecks. For best color patterns, avoid high-light conditions.

### Trusty Rusty
**Height:** 18 to 24 in. (45 to 60 cm)
**Spread:** 28 in. (70 cm)
**A Simply Beautiful® selection.**
Copper leaves are outlined in golden yellow. Large-leafed and vigorous. Ships well as unrooted cuttings and liners.

Aurora Black Cherry

Aurora Peach

Alabama

Florida Sun Jade

Aurora Raspberry

Lava Rose

Florida Sun Rose

Florida Sun Splash

## Aurora™ Series

**Height:** 10 to 12 in. (25 to 30 cm)
**Spread:** 10 to 12 in. (25 to 30 cm)
**A Simply Beautiful® selection.**
Bright, eye-catching color patterns; controlled habit and strong vigor make Aurora a standout in combos, containers, landscapes and gardens. Exceptional branching means the habit holds long after others have overgrown their containers. Late-flowering for long-season shows. Heat-hardy series is great for late Spring/Summer programs.

*Solenostemon hybrida*

## Lava™ Rose

**Height:** 6 to 10 in. (15 to 25 cm)
**Spread:** 18 to 24 in. (45 to 60 cm)
**A Simply Beautiful® selection.**
Unique mounded and trailing coleus grows fast and full in combos and baskets. The dense, sturdy plants ship well. Great as a low-growing annual groundcover.

## Alabama

**Height:** 18 to 24 in. (45 to 60 cm)
**Spread:** 12 to 14 in. (30 to 35 cm)
Large, lime green leaves mature to russet burgundy.

## Florida Sun Jade

**Height:** 10 to 12 in. (25 to 30 cm)
**Spread:** 10 to 12 in. (25 to 30 cm)
Large, deep burgundy leaves have green to yellow "paint splash" centers.

## Florida Sun Rose

**Height:** 12 to 18 in. (30 to 45 cm)
**Spread:** 12 to 14 in. (30 to 35 cm)
Rose-pink leaves are highlighted with burgundy and green speckles.

## Florida Sun Splash

**Height:** 12 to 18 in. (30 to 45 cm)
**Spread:** 18 to 24 in. (45 to 60 cm)
Deep burgundy leaves have a hint of green and a bright yellow border.

Silver Fox Chrysocephalum

Apricot Twist Erysimum

Saturn Coleus

Allyson Heather Cuphea

Firecracker Cuphea

Pastel Patchwork Erysimum

## Saturn
**Height:** 14 to 20 in. (35 to 50 cm)
**Spread:** 18 to 24 in. (45 to 60 cm)
Golden lime leaves feature burgundy edges and lime green scalloped margins.

**CARYOPTERIS**
See Perennials, page 84.

**CERATOSTIGMA**
See Perennials, page 84.

**CHRYSOCEPHALUM**
*Chrysocephalum apiculatum*

## Silver Fox
**Height:** 5 to 7 in. (13 to 18 cm)
**Spread:** 16 to 18 in. (40 to 45 cm)
**A Simply Beautiful® selection.**
Well-branched, compact annual foliage plant finishes in just 8 to 10 weeks in Spring, with little to no PGRs. Heat-tolerant and durable, this low-water plant makes easy-care solo and mixed containers and in-ground plantings. "Touchable" gray leaves and late-season yellow button flowers are attractive to consumers.

**COREOPSIS**
See Perennials, page 84.

**CUPHEA**

*Cuphea hyssopifolio*

## Allyson Heather
**Height:** 14 to 16 in. (35 to 40 cm)
**Spread:** 16 to 18 in. (40 to 45 cm)
Compact and upright variety is well-suited to mixed containers and landscapes. Small purple flowers over glossy green foliage. Heat and drought tolerant. **A "2 for 1" series – pay for one unrooted cutting, get two to plant. See inside back cover.**

*Cuphea purpurea*

## Firecracker
**Height:** 10 to 14 in. (25 to 30 cm)
**Spread:** 12 to 14 in. (30 to 35 cm)
Mounded and trailing plants are useful in baskets, mixed containers and as a groundcover. Bright red and purple flowers top solid green foliage.

**DELOSPERMA**
See Perennials, page 85.

**ERODIUM**
See Perennials, page 85.

**ERYSIMUM**
Also see Perennials, page 85.
*Erysimum hybridum*

## Apricot Twist
**Height:** 24 in. (60 cm)
**Spread:** 10 to 14 in. (25 to 35 cm)
Compact, upright plant has slender, dark silver-green leaves and thin stems. Clusters of bright apricot flowers from June to August have a spicy fragrance.

## Pastel Patchwork
**Height:** 24 in. (60 cm)
**Spread:** 10 to 14 in. (25 to 35 cm)
Loose, upright plant has narrow green foliage and spicy-scented flowers that make "patches" of soft-colored blooms in shades of lilac, lemon, cream and tangerine.

*Low landscape/consumer water needs*

# Delicious™

Delicious Marmalade

Delicious Honey

Delicious Lemon Zest

Delicious Marshmallow

Delicious Raspberry

**DAHLIA**
*Dahlia pinnata*

## Delicious™ Series

**Height:** 14 to 18 in. (35 to 45 cm)
**Spread:** 12 to 14 in. (30 to 35 cm)
**Our larger potted dahlia series is fast-finish, too!** Mounded, medium vigor series has a well-branched habit that keeps plants strong all season and requires fewer plants per pot. Very free-flowering with a fully double flower form. Excellent rooting assures a shorter propagation time. Best-suited to 6 to 8-in. (15 to 20-cm) pots and gallons.

# Dahlietta®

NEW Dahlietta Lily (Salmon)

## Dahlietta® Series

**Height:** 8 to 10 in. (20 to 25 cm)
**Spread:** 12 to 14 in. (30 to 35 cm)
**A Simply Beautiful® selection.**
**Dahlietta flowers in as little as 7 weeks for quick turns on the bench.** Plants finish compact and uniform across all colors with less PGRs. Available in a wide range of colors and patterns on unique flower forms. Performs well in outdoor planters and as an indoor potted plant for multiple sales opportunities.

NEW Blanca Improved offers easier production than previous white. NEW Julia roots fast and uniform. NEW Lily brings wonderful salmon color to the line-up.

NEW Dahlietta Julia (Yellow)

Dahlietta Anna (Scarlet)

Dahlietta Apricot Sunrise (Orange & Yellow Bicolor)

Dahlietta Betty (Violet)

NEW Dahlietta Blanca Improved (White)

Dahlietta Caroline (Light Burgundy)

Dahlietta Emily (Light Pink)

Dahlietta Cherry Sunrise (Pink & Yellow Bicolor)

Dahlietta Louise (Rose & White)

Dahlietta Patricia (Red & Orange)

Dahlietta Jenny (Orange Bicolor)

Dahlietta Rachel (Orange)

Dahlietta Sunburst (Red & Yellow Bicolor)

Dahlietta Patty (Red)

Dahlietta Tessy (Scarlet)

Dahlietta Margaret (Yellow)

Dahlietta Violet Frost (Rose & White Bicolor)

Dahlietta Wendy (Pink)

# Romeo™

Romeo Bright Pink

Bright Pink

Pink

Salmon

Orange

**BASKET DIASCIA**
*Diascia barberae*

**Romeo™ Series**
**Height:** 7 to 9 in. (18 to 23 cm)
**Spread:** 8 to 10 in. (20 to 25 cm)
**A Simply Beautiful® selection.**

**Turn to Romeo as the vigorous and mounding, perfect-for-baskets series.** The best-matched diascias on the market for size and flower timing, large-bloomed Romeo includes 6 high-demand colors for streamlined ordering and growing. This cool-season annual needs low energy inputs, requires no PGRs if grown cool, and extends the season both early and late to build sales. The mounding habit is also well-suited to large containers and landscapes. **A "2 for 1" series – pay for one unrooted cutting, get two to plant. See inside back cover.**

Red

White

*Low energy production*

# Juliet™

Juliet Pink With Eye

Orange

Light Pink

Pink With Eye

Red

**DIASCIA**
*Diascia barberae*

## Juliet™ Series

**Height:** 6 to 8 in. (15 to 20 cm)
**Spread:** 4 to 6 in. (10 to 15 cm)
**A Simply Beautiful® selection.**

**Choose compact and upright Juliet for high-density pot programs.** All-new breeding fills benches with compact, upright plants that are super-uniform across all varieties for habit and timing, with fresh colors and big flowers. The low-energy, grower-friendly series is easy to produce and ship – plants are tidy and won't tangle so less bench space and no PGRs are needed. Highly programmable Juliet is ideal for bench-run programs and offers a great way to pump up early-season combos. Season extender also works well in many Autumn markets, and makes an excellent Winter crop in moderate areas. **A "2 for 1" series – pay for one unrooted cutting, get two to plant. See inside back cover.**

White

# Breathless®

## Euphorbia fills in fast – and lasts

MixMasters Bubble Bath contains Breathless White Euphorbia and Fiesta Hot Pink Impatiens

**EUPHORBIA**
Blush: *Euphorbia hybrida*
White: *Euphorbia hypericifolia*

## Breathless® Series

**Height:**
**Blush:** 8 to 12 in. (20 to 30 cm)
**White:** 10 to 15 in. (25 to 38 cm)

**Spread:**
**Blush:** 20 to 24 in. (50 to 60 cm)
**White:** 24 to 28 in. (60 to 70 cm)
**A Simply Beautiful® selection.**

**Blush is the first dark-foliaged euphorbia. • White goes head-to-head with the market leader for branching and blooming. • Available as unrooted cuttings and rooted liners.**

This elegant and durable series includes a stunning Blush with red-flushed leaves and pink-flushed flowers, plus a White with terrific branching and dense flowering. Heat-tolerant Breathless fills in fast, makes stocky and mounded plants, and displays a showy mass of self-cleaning flowers all Summer across a wide range of conditions. The long-lasting, free-flowering plants are well-suited to solo and mixed containers, in-ground plantings and holiday gift planters, with low water needs and no deadheading.

*Blush and White both recognized for Excellent Container Performance in 2010 at the University of Colorado.*

**Breathless Blush Euphorbia, Pinstripe Petunia and Cabaret Cherry Rose Calibrachoa**

See how to "Create Retail-Ready Breathless Euphorbia" at BFP-TV. www.ballfloraplant.com/BFP-TV

*Low landscape/consumer water needs*

Blue Daze Evolvulus

Ballerina Rose Gaura

Pinwheel Periwinkle Felicia

Ballerina White Gaura

Ballerina Blush Gaura

Siskiyou Pink Gaura

© The John Henry Company.

**EVOLVULUS**
*Evolvulus nuttallianus*

### Blue Daze
**Height:** 12 to 14 in. (30 to 35 cm)
**Spread:** 18 to 20 in. (45 to 50 cm)
Heat-tolerant, trailing plant works well in combination containers and baskets. True blue flowers are a consumer favorite.

**FELICIA**
*Felicia amelloides*

### Pinwheel™ Periwinkle
**Height:** 18 to 24 in. (45 to 60 cm)
**Spread:** 18 to 20 in. (45 to 50 cm)
Early, drought-tolerant variety is very free-flowering with excellent branching. Great flower form with petals that do not reflex. Well-suited to mixed containers, patio planters and landscapes.

**GAILLARDIA**
See Perennials, page 86.

**GALIUM**
See Perennials, page 86.

**GAURA**
*Gaura lindheimeri*

**USDA Hardiness Zones:** All are temperate perennials in Zones 6 to 10.

### Ballerina™ Series
**Height:** 12 to 18 in. (30 to 45 cm)
**Spread:** 12 to 14 in. (30 to 35 cm)
Compact, well-branched plants bloom continuously, producing striking, colorful flowers and dark foliage on "airy," upright plants. Well-suited to landscapes, and a good choice for combo containers. White is the most compact, well-branched white gaura on the market.

### Siskiyou Pink
**Height:** 24 to 36 in. (60 to 90 cm)
**Spread:** 30 to 36 in. (75 to 90 cm)
Heat and humidity-tolerant variety produces clusters of bright red-pink flowers with white stamens, atop willowy foliage.

*Low landscape/consumer water needs*

# Retail-ready, top-quality Geraniums in as few as 8 weeks

**Traditional URC**

**Genesis cuttings** arrive ready to direct stick to the finish container.

**Traditional URC 14 days**

**Genesis cuttings 14 days:** With the callus already on, roots initiate quickly.

**Traditional URC 5 weeks**

**Genesis cuttings 5 weeks:** Direct sticking speeds up and improves branching for a better quality plant.

**Traditional URC 8 weeks**

**Genesis cuttings 8 weeks:** The Genesis geranium is in full bloom, out the door and ready to sell.

# Genesis™

## Direct-stick Geranium Cuttings

**Less labor.** Genesis Geranium cuttings can be direct stuck to the finish container, cutting propagation time by 10 to 14 days and eliminating transplanting labor.

**Shortened crop time.** Presorted for the best rooting uniformity, Genesis direct-stick cuttings cut rooting time in half. You move crops off the bench faster, get more turns per season and reduce overall input costs.

**Less shrink.** Genesis cuttings arrive presorted for quality to give you the best consistency in propagation and let you bench run your crop.

**Reduced input costs.** Direct-stick Genesis cuttings give you the shortest crop time in the greenhouse, faster rooting, minimal bottom heat and no double handling. You can reduce the temperature sooner, which means a better habit with fewer PGRs.

**Watch…learn…and grow!**
Visit ballfloraplant.com for BFP TV, your Online Video Learning Center. You'll find several informative, short videos on Genesis direct-stick cuttings, and other current topics of interest to growers.

For more information, go to ballfloraplant.com

**Fantasia Cardinal Red**

BallFloraPlant®

NEW Presto™

# Dark-leafed zonal delivers big flower power in a compact habit

Presto Light Salmon

Grow your Presto crop (and your profits!) with Genesis cuttings – see www.ballhort.com/BallFloraPlant/_culture_resources.aspx for details.

New Brilliant Red

New Dark Fuchsia

New Dark Red

New Dark Salmon

New Deep Scarlet

New Extreme Rose

New Light Salmon

New Pink

New Pink + Eye

New Pink Sizzle

New Rose Sizzle

New Violet

**ZONAL GERANIUM**
*Pelargonium x hortorum*

## New Presto™ Series

**Height:** 8 to 10 in. (20 to 25 cm)
**Spread:** 8 to 10 in. (20 to 25 cm)
**A Simply Beautiful® Selection**

**With all-new genetics, Presto is our most uniform compact, dark-leafed zonal geranium series. • Presto produces a strong first flush of flowers – 3 to 4 blooms. • Naturally compact habit – no PGRs needed, saves time and money.**

Change the way you think about growing geraniums! Big-flowering Presto is highly programmable, uniform and compact – great for pot-tight, bench-run programs. With Presto, you can produce the most geraniums per square foot! This cool-season stunner also shows excellent heat tolerance, so it's ideal for late-season and second turns. The full range of strong core colors and contrasting dark green leaves give Presto high retail impact. Best suited to 4 to 6-in. (10 to 15-cm) pots and 10 to 14-in. (25 to 35-cm) baskets.

New White

**Available as Genesis direct-stick cuttings.**

Ball FloraPlant®

# Fantasia®

## Greatest vigor in a dark-leafed zonal

Fantasia Dark Red

New Dark Red | New Raspberry Twizzle | Cardinal Red | Coral

Flame | Flamingo Rose | Neon Rose | Pink Shell

Purple Sizzle | Salmon | New Shocking Pink Improved | Strawberry Sizzle

## Fantasia® Series

**Height:** 12 to 14 in. (30 to 35 cm)
**Spread:** 12 to 14 in. (30 to 35 cm)
**A Simply Beautiful® selection.**

**Excellent uniformity puts more plants per sq. ft. and optimizes shipping density. • Darker leaves deliver awesome appeal. • Targeted range of core and unique colors simplifies selection.**

Fantasia's dark green foliage assures a host of benefits. The leaves contrast better with the colorful flowers for high-impact retail displays. Plants grow more controlled and the dark leaves stay healthy for longer shelf life. Very uniform with large, semi-double flowers, the plants stand out in landscapes, large pots and baskets. Best-suited to 5-in. (13-cm) and larger pots and hanging baskets.

NEW Dark Red is the darkest red zonal geranium on the market. NEW Raspberry Twizzle has a unique and exciting striped flower pattern never before seen in dark-leafed zonals.

*Fantasia Violet and Cardinal Red earned perfect ratings in the Penn State University trial gardens for Summer 2010.*

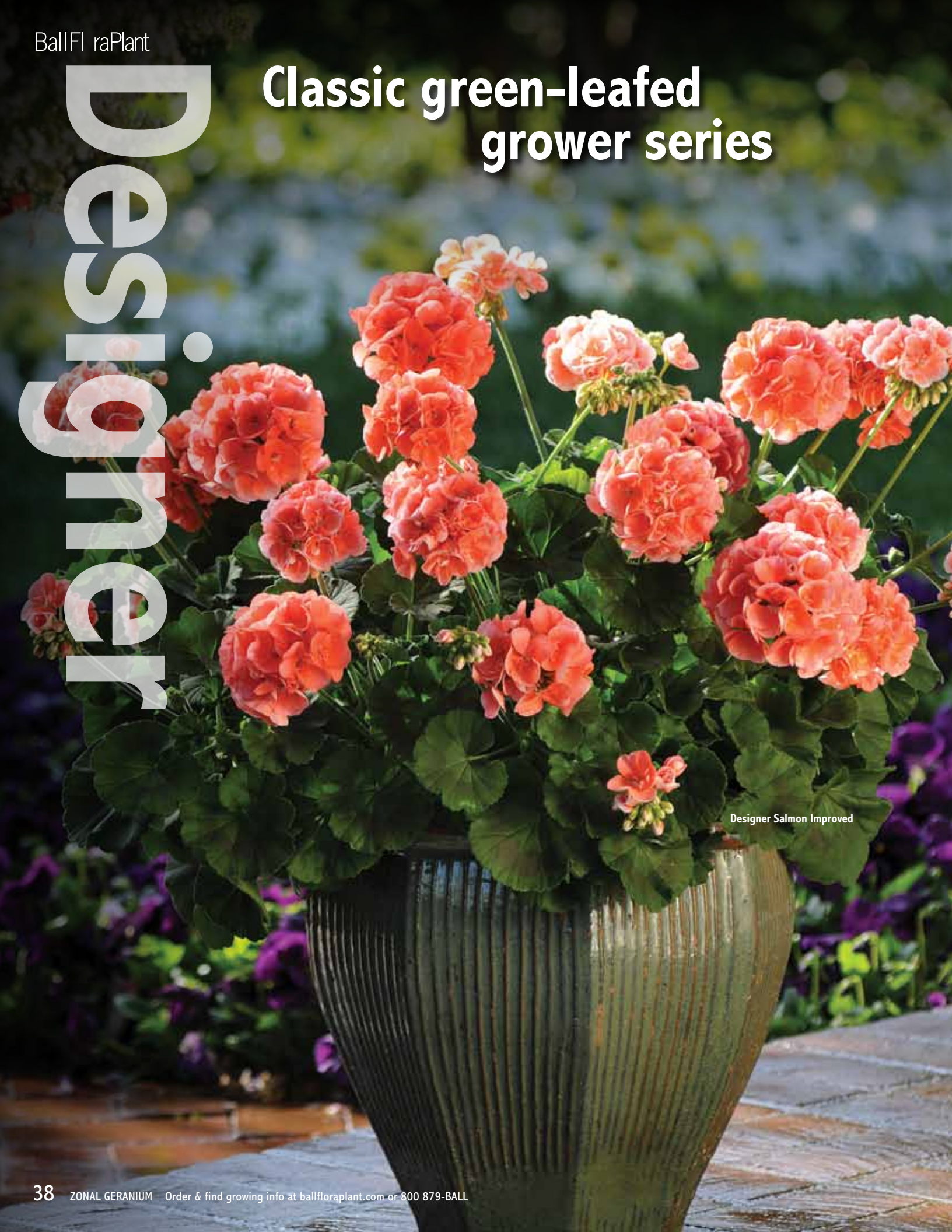
Violet | White

**Available as Genesis direct-stick cuttings.**

*Low landscape/consumer water needs* *Low energy production*

# Designer

## Classic green-leafed grower series



Designer Salmon Improved

Bright Red
Growers Choice

Dark Red
Growers Choice

Hot Pink
Growers Choice

Salmon Improved
Growers Choice

Bright Lilac
Growers Choice

Scarlet Red
Growers Choice

White
Growers Choice

Bright Scarlet

Salmon

Dark Pink Sizzle

Light Pink

Light Salmon

## Designer Series

**Height:** 12 to 14 in. (30 to 35 cm)
**Spread:** 12 to 14 in. (30 to 35 cm)
**A Simply Beautiful® selection.**
**Includes 7 Growers Choice varieties – these top performers deliver the most uniform habit and timing across the key geranium colors.**

**Landscape lover delivers high weather tolerance and dependable uniformity. • Surefire performer in bench-tight programs with fewer PGRs needed. • Tried-and-true performer.**

The best-selling Ball FloraPlant zonal geranium, Designer makes plants with a medium habit that finish on time and show well at retail, with multiple flower stems at the first flush. Uniform with good branching, the series is well-suited to high-volume programs and also works well in containers and baskets. Designer flowers well under low light so the series is extremely reliable regardless of greenhouse conditions. Multi-use series is well-suited to 4.5 to 6-in. (11 to 15-cm) pots, gallons and baskets.

**Available as Genesis direct-stick cuttings.**

*Low landscape/consumer water needs* *Low energy production*

Peppermint Twist

Red

Salmon Rose

Violet

BallFloraPlant

# Allure™

## Full-bodied, super-sized green-leafed!

Allure Scarlet Improved

New True Red

Red Passion

Tangerine

Hot Coral

Bright Lavender

Light Pink

Lilac Chiffon

Pink Sizzle

Purple Rose

Rose

Salmon

Scarlet Improved

## Allure™ Series

**Height:** 14 to 18 in. (35 to 45 cm)
**Spread:** 12 to 14 in. (30 to 35 cm)
**A Simply Beautiful® selection.**

**Consumers want super-sized geraniums…Allure delivers! • With full habit and fast fill, it's the best zonal for larger container and basket programs. • Shows consistent color every time.**

The most vigorous of the Ball FloraPlant zonal geraniums, Allure produces upright plants with high stress tolerance. They're vigorous enough to keep their large, semi-double blooms all season in large containers and landscapes. Best-suited to 6-in. (15-cm) and larger pots, 10 to 14-in. (25 to 35-cm) baskets and large mixed containers.

NEW True Red delivers richer color than Red Passion, with shorter flower stem length.

*Allure Tangerine and Red Passion earned excellent performance ratings at Colorado State University trials in 2010.*

Violet

White

**Available as Genesis direct-stick cuttings.**

*Low landscape/consumer water needs*

Ball FloraPlant®

NEW Precision™

# Ivy geranium shows great uniformity across 14 glorious colors

NEW Precision Dark Burgundy

BFP-TV at ballfloraplant.com – your source for the latest geranium growing news

New Blue

New Burgundy

New Burgundy Ice

New Dark Burgundy

New Dark Lavender

New Dark Salmon

New Lavender

New Light Pink

New Pink

New Red Ice

New Ruby

New Salmon

**IVY GERANIUM**
*Pelargonium peltatum*

## New Precision™ Series

**Height:** 10 to 12 in. (25 to 30 cm)
**Spread:** 14 to 18 in. (35 to 45 cm)
**A Simply Beautiful® selection.**

**Easy-to-control, medium compact habit holds its shape from the greenhouse to the garden! • Specially selected for early flowering and excellent uniformity. • Oedema-resistant for clean foliage at retail and better show throughout the season.**

New Precision lives up to its name, with an even more controlled habit and improved timing than the Colorcade series – ideal for bench-run programs. This early-flowering beauty produces large, showy blooms mounded above the plant canopy for strong sell-through. Less PGRs needed to contain vigor, so you save time and lower your input costs. Well-branched and free-flowering, Precision is well-suited for 4.5-in. (11-cm.) pots and is quick to fill large containers and baskets.

New Scarlet Red

New White Red Eye

**Available as Genesis direct-stick cuttings.**

### Ball FloraPlant Zonal Geraniums

| Variety | Flower Timing | Leaf Type | Habit |
|---|---|---|---|
| **Allure™ Series** – the most vigorous habit | | | |
| Bright Lavender *Top seller!* | medium | green – zoning | vigorous |
| Hot Coral | medium | green | vigorous |
| Light Pink *Top seller!* | medium | green | medium |
| Lilac Chiffon | late | green | vigorous |
| Pink Sizzle | medium | green | medium |
| Purple Rose *Top seller!* | medium | green | medium |
| Red Passion *Top seller!* | medium | green | vigorous |
| Rose | early | green | medium |
| Salmon | medium | green – zoning | vigorous |
| Scarlet Improved | early | green – zoning | vigorous |
| Tangerine *Top seller!* | medium | green | vigorous |
| NEW True Red | medium | green | vigorous |
| Violet | medium | green | vigorous |
| White | medium | green | vigorous |
| **Designer Series** – medium habit | | | |
| Bright Lilac | early | green | medium |
| Bright Red *Top seller!* | medium | green | medium |
| Bright Scarlet *Top seller!* | early | green | medium |
| Dark Pink Sizzle | medium | green | medium |
| Dark Red *Top seller!* | medium | green | medium |
| Hot Pink *Top seller!* | medium | green | medium |
| Light Pink | medium | green | medium |
| Light Salmon | late | green | medium |
| Peppermint Twist | medium | green | medium |
| Red | medium | green | medium |
| Salmon | medium | green | medium |
| Salmon Improved *Top seller!* | medium | green – zoning | medium |
| Salmon Rose | early | green | medium |
| Scarlet Red | medium | green – zoning | medium |
| Violet *Top seller!* | medium | green | medium |
| White | medium | green | medium |

Ball FloraPlant's dynamic geranium breeding and product development programs continue to bring innovative genetics and excellent cutting quality to the marketplace. High-performance zonal geraniums like Presto, Fantasia, Designer and Allure deliver exceptional uniformity across core and novelty colors.

| Variety | Flower Timing | Leaf Type | Habit |
|---|---|---|---|
| **Fantasia® Series** – medium habit | | | |
| Cardinal Red *Top seller!* | medium | dark | medium |
| Coral | early | dark | medium |
| NEW Dark Red | medium | dark | medium |
| Flame | medium | dark | medium |
| Flamingo Rose | early | dark | medium |
| Neon Rose | medium | dark | compact |
| Pink Shell | medium | dark | compact |
| Purple Sizzle *Top seller!* | medium | dark | compact |
| NEW Raspberry Twizzle | medium | dark | compact |
| Salmon | medium | dark | medium |
| NEW Shocking Pink Improved | medium | dark | medium |
| Strawberry Sizzle *Top seller!* | medium | dark | medium |
| Violet *Top seller!* | medium | dark | medium |
| White | medium | dark | medium |
| **Presto™ Series** – compact habit | | | |
| NEW Brilliant Red | medium | dark | compact |
| NEW Dark Fuchsia | medium | dark | compact |
| NEW Dark Red | medium | dark | compact |
| NEW Dark Salmon | medium | dark | compact |
| NEW Dark Scarlet | medium | dark | compact |
| NEW Extreme Rose | early | dark | compact |
| NEW Light Salmon | medium | dark | compact |
| NEW Pink | medium | dark | compact |
| NEW Pink + Eye | medium | dark | compact |
| NEW Pink Sizzle | medium | dark | compact |
| NEW Rose Sizzle | medium | dark | compact |
| NEW Violet | medium | dark | compact |
| NEW White | medium | dark | compact |

### Ball FloraPlant Ivy Geraniums

| Variety | Flower Timing | Leaf Type | Habit |
|---|---|---|---|
| **Precision™ Series** | | | |
| NEW Blue | early | green | medium mounded |
| NEW Burgundy | early | green | medium mounded |
| NEW Burgundy Ice | early | green | medium/compact mounded |
| NEW Dark Burgundy | early | green | medium mounded |
| NEW Dark Lavender | medium | dark | medium mounded |
| NEW Dark Salmon | early/medium | green | medium mounded |
| NEW Lavender | early | green | medium mounded |
| NEW Light Pink | early | green | medium/compact mounded |
| NEW Pink | early | green | medium mounded |
| NEW Red Ice | early | green | medium mounded |
| NEW Ruby | early/medium | green | medium mounded |
| NEW Salmon | early | green | medium mounded |
| NEW Scarlet Red | early | green | medium mounded |
| NEW White Red Eye | early | green | medium/compact mounded |

# Galleria®

Galleria Sunrise with AngelMist White Angelonia

Pink Punch

Bright Violet

Ruby Red

**INTERSPECIFIC GERANIUM**
*Pelargonium interspecific*

## Galleria® Series

**Height:** 10 to 12 in. (25 to 30 cm)
**Spread:** 12 to 14 in. (30 to 35 cm)
**A Simply Beautiful® selection.**
**More heat tolerant than ivies – a key basket item for the southern U.S.** This zonal-ivy cross produces mounded, trailing plants that are ideal for planters and mixed containers. Durable perfomer is *Oedema* resistant, needs less pinching and PGRs and has better shipability than ivies.

SnowFire

Sunrise

*Low landscape/consumer water needs*

**Available as Genesis direct-stick cuttings.**

# Fiesta™

# Shade-loving show stoppers

MixMasters Shades of Pink contains Fiesta Apple Blossom and Fiesta Stardust Pink

Can't get enough MixMasters? See pages 2-7.

**DOUBLE IMPATIENS**
*Impatiens walleriana*

**Fiesta™ Series**
**Height:** 10 to 16 in. (25 to 40 cm)
**Spread:** 10 to 12 in. (25 to 30 cm)
**A Simply Beautiful® selection.**
**Includes 7 Growers Choice varieties – these top performers deliver the most uniform habit and timing across the key double impatiens colors.**

**The biggest, most fully double blooms are irresistible to shoppers. • Quick, easy and economical in bench-run programs. • The Fiesta name is known and trusted by gardeners and landscapers.**

Show-stopping blooms plus strong all-season performance make Fiesta the Number One-selling double impatiens series for shady landscapes, baskets, combos and patio planters. Excellent branching and uniformity on the early-blooming plants mean that few PGRs are needed and less stretching occurs. Landscapers and gardeners appreciate the low maintenance and unique, mini-rose blooms on the dark green-leafed plants.

*Fiesta Purple was named Best Double Impatiens at Colorado State University 2010 trials.*

Salsa Red
Growers Choice

White
Growers Choice

Purple
Growers Choice

Apple Blossom
Growers Choice

Stardust Pink
Growers Choice

Lavender Orchid
Growers Choice

Deep Orange
Growers Choice

Burgundy

Sparkler Salmon

Coral Bells

Pink Ruffle

Rose

Salmon

Sparkler Cherry

Sparkler Hot Pink

Sparkler Orange

Sunrise Red

Ball FloraPlant®

# Fiesta™ Olé

## The only compact double impatiens

Fiesta Olé Purple Stripe

Purple

Frost

Cherry

Peach

**Fiesta™ Olé Series**
**Height:** 10 to 12 in. (25 to 30 cm)
**Spread:** 10 to 12 in. (25 to 30 cm)
**A Simply Beautiful® selection.**

**Controlled habit keeps plants neat and tidy. • Easy to grow. • Keeps its mounded shape and vivid color all Summer.**

Fiesta Olé is the ideal choice for premium packs and small pots as well as baskets up to 10 in. (25 cm). The well-branched, fast-finish plants need fewer PGRs and there is less stretching when grown pot-tight. Offers the same terrific uniform habit, flower size, abundance of "mini-rose" blooms all season and consumer name recognition as the popular Fiesta varieties.

*Fiesta Olé Purple announced 2009's "Best Double Impatiens" at Colorado State…"model of control, vigor and uniformity."*

Peppermint

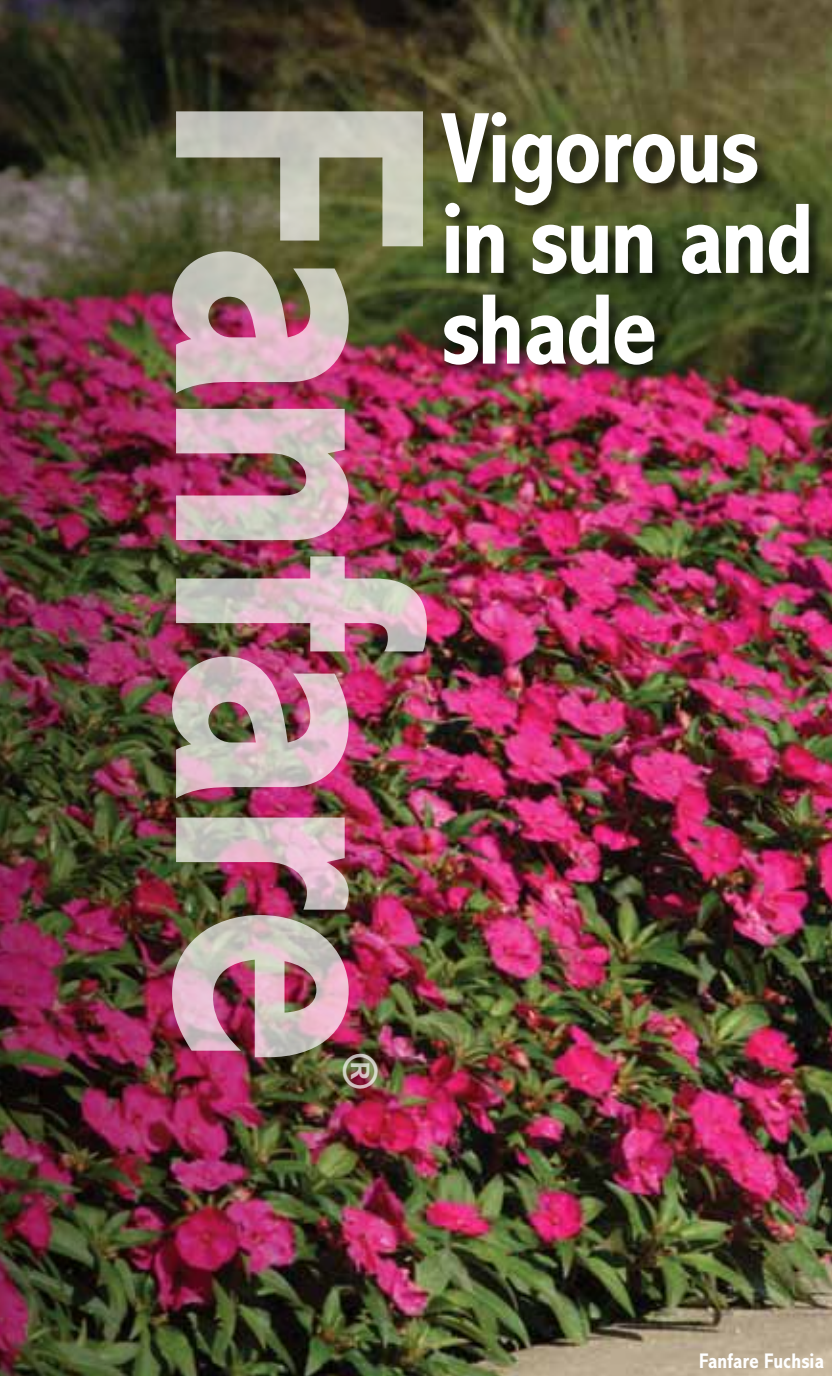
Purple Stripe

Rose

Salmon

# Fanfare®

## Vigorous in sun and shade


Fanfare Fuchsia

Bright Coral

Fuchsia

Blush

Orange

Orchid

**SPREADING IMPATIENS**
*Impatiens hybrida*

**Fanfare® Series**
**Height:** 16 to 20 in. (40 to 50 cm)
**Spread:** 18 to 24 in. (45 to 60 cm)
**A Simply Beautiful® selection.**

**Versatile "grow anywhere" series. • The most heat-tolerant impatiens on the market. • Big, tough plants build gardener confidence and keep 'em coming back for more.**

Vigorous, free-flowering Fanfare has a unique spreading and mounded habit that quickly fills large garden beds, containers and hanging baskets. The plants recover quickly from water stress without losing buds or blooms. Naturally well-branched Fanfare finishes fast for quick cropping and second-turn programs, with no pinching and few PGRs needed.

# Patchwork™

## Patterns add 'WOW' to shade containers

Patchwork NEW Lavender

NEW Lavender

Pink Shades

Peach Prism

Pink Shades

IMPATIENS WALLERIANA

**Patchwork™ Collection**
**Height:** 10 to 16 in. (25 to 40 cm)
**Spread:** 12 to 14 in. (30 to 35 cm)
**A Simply Beautiful® selection.**

**Distinctive patterned flowers make an impact on shade baskets and mixed containers. • Grower-friendly and low maintenance – no special culture required! • Easy to program for direct-stick programs.**

Patchwork produces color-filled blooms that show off unique patterns – it's like getting two colors in one plant! The low-maintenance, dark green-leafed plants are mounded, well-branched and spreading, with non-stop flowers all season. A strong performer in shady baskets, mixed containers, planters and landscapes. Easy-to-produce collection can be grown following standard Fiesta double impatiens culture, including direct-stick programs.

NEW Lavender displays a unique bicolor pattern with a strong center eye.

*Patchwork Pink Shades took home a Perfect 5 Rating from the University of Wisconsin in 2010.*

# Celebration New Guinea Impatiens

Celebration Purple Star

Apricot

Cherry Red

Bright Salmon

Deep Red

Electric Rose

Lavender Glow

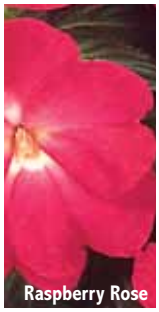
Icy Blue

Orange

Pink

Purple

Purple Star


Raspberry Rose

**NEW GUINEA IMPATIENS**
*Impatiens hawkerii*

## Celebration Series

**Height:** 10 to 12 in. (25 to 30 cm)
**Spread:** 10 to 12 in. (25 to 30 cm)
**A Simply Beautiful® selection.**
**The big-impact New Guinea for larger container programs.** Vigorous and well-branched Celebration plants fill containers quickly with fewer plants per pot. Available in a full color range with excellent greenhouse performance, Celebration's large blooms cover the plant even in high heat.

Rose

Rose Star

Sangria

Tropical Peach

Sunset Apricot

White

# Celebrette New Guinea Impatiens

Celebrette Apple Blossom, Lavender and Cherry Stripe

Apple Blossom Growers Choice

Frost Growers Choice

Grape Crush Growers Choice

Hot Pink Growers Choice

Lavender Growers Choice

Orange Crush Growers Choice

Bonfire Orange

Cherry

Cherry Stripe

Deep Red

Red Growers Choice

## Celebrette Series

**Height:** 8 to 10 in. (20 to 25 cm)
**Spread:** 10 to 12 in. (25 to 30 cm)
**A Simply Beautiful® selection.**
**Includes 7 Growers Choice varieties – these top performers deliver the most uniform habit and timing across the key New Guinea impatiens colors.**
**Controlled habit is ideal for small pot programs.** Mid-size Celebrette delivers early, continuous flowering; excellent branching; and large, eye-catching blooms all season. The controlled habit means plants won't outgrow the container and will promote better sell-through. Like its Celebration companions, Celebrette thrives in both hot and cool conditions.

Hot Rose

Light Coral

Orange Stripe

Orchid Star Improved

Orchid

Pink

Salmon Frost

Strawberry Star

**Ball FloraPlant New Guinea Impatiens**

| Variety | Flower Timing | Leaf Type | Habit |
|---|---|---|---|
| **Celebration Series** | | | |
| Apricot | early | dark green | vigorous |
| Bright Salmon | medium | dark green | vigorous |
| Cherry Red | medium | green | compact-medium |
| Deep Red *Top seller!* | medium | green | compact-medium |
| Electric Rose | medium | green | vigorous |
| Icy Blue | early | dark green | medium |
| Lavender Glow *Top seller!* | medium | green | vigorous |
| Orange | medium | green | vigorous |
| Pink *Top seller!* | medium | green | vigorous |
| Purple | early | dark green | vigorous |
| Purple Star | medium | bronze | medium |
| Raspberry Rose | medium | green | vigorous |
| Rose | medium | green | vigorous |
| Rose Star | medium | bronze | vigorous |
| Sangria *Top seller!* | medium | green | vigorous |
| Sunset Apricot | medium | green | medium |
| Tropical Peach | medium | dark green | medium |
| White *Top seller!* | early | dark green | medium-vigorous |
| **Celebrette Series** | | | |
| Apple Blossom Improved | early | dark green | compact |
| Bonfire Orange | medium | bronze | compact |
| Cherry | medium | dark green | compact |
| Cherry Stripe | early | dark green | compact |
| Deep Red | late | variegated | compact |
| Frost *Top seller!* | medium | green | compact |
| Grape Crush *Top seller!* | medium | dark green | compact-medium |
| Hot Pink *Top seller!* | medium | green | medium-vigorous |
| Hot Rose | early | dark green | compact-medium |
| Lavender Improved | early | dark green | compact |
| Light Coral | medium | variegated | medium |
| Orange Crush *Top seller!* | early | dark green | compact-medium |
| Orange Stripe | early | bronze | compact |
| Orchid Star Improved | medium | bronze | compact-medium |
| Orchid | medium | dark green | compact-medium |
| Pink | early | dark green | compact |
| Red *Top seller!* | medium | green | compact |
| Salmon Frost | late | green | compact-medium |
| Strawberry Star | medium | bronze | compact |

Celebration Purple Star

# Fusion™

Fusion Glow Yellow

Heat Coral

Infrared Apricot

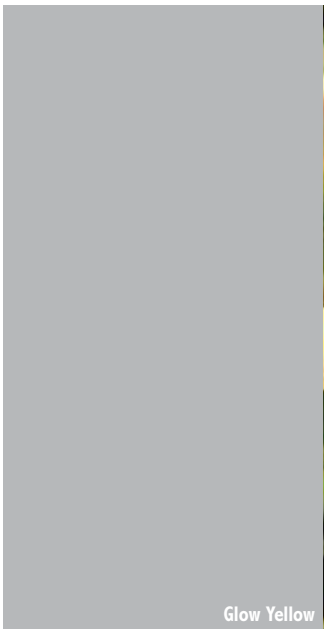
**EXOTIC IMPATIENS**
*Impatiens hybrida*

## Fusion™ Series

**Height:** 10 to 16 in. (25 to 40 cm)
**Spread:** 10 to 16 in. (25 to 40 cm)
**A Simply Beautiful® selection.**

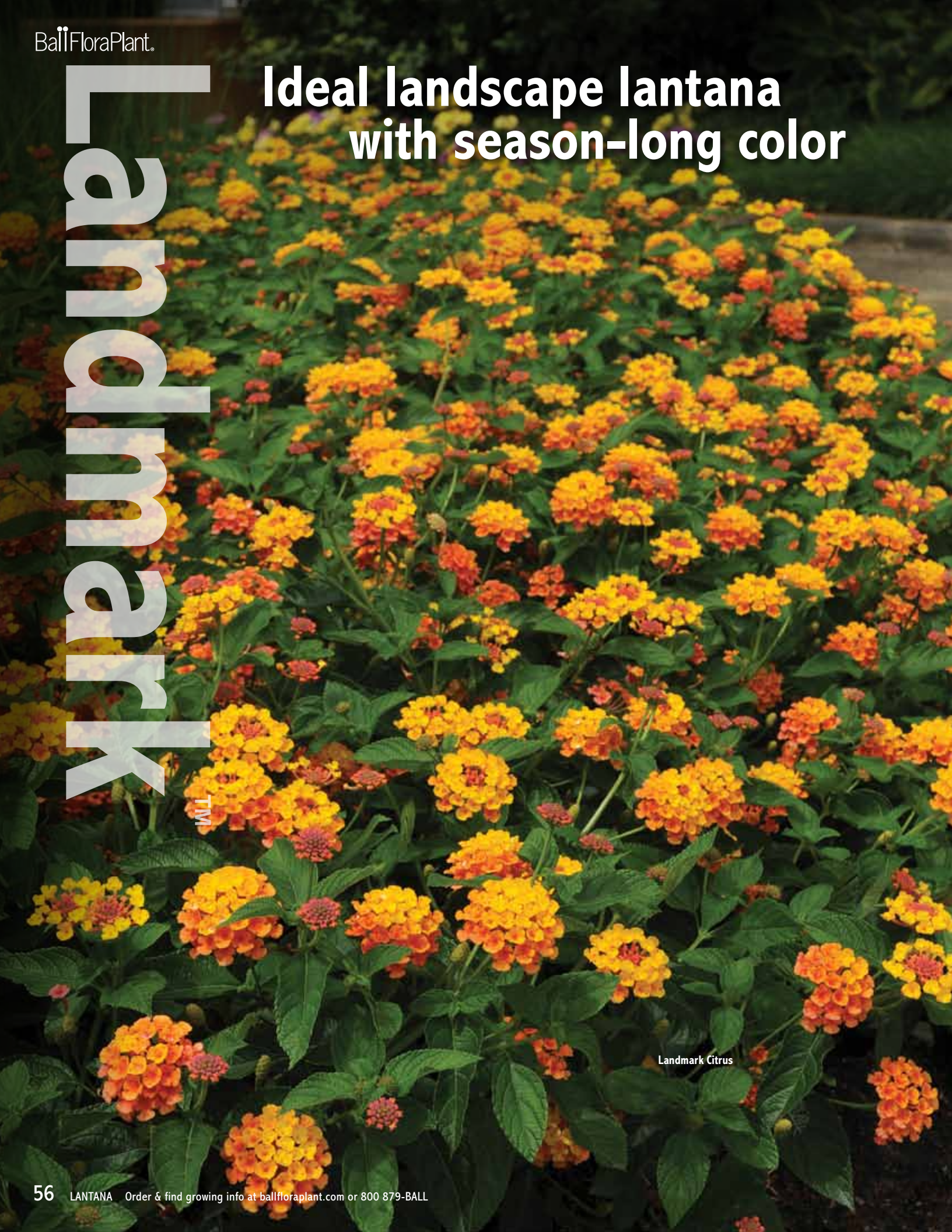
**Heat-tolerant plants shine in the shade with big-impact blooms in high-voltage colors.** This vigorous and well-branched series features uniquely shaped flowers held over the foliage – great for attracting shoppers at retail. Ideal for large, high-margin containers and baskets, Fusion can be grown in the same environment as Fiesta varieties. Can withstand cool temperatures; prefers morning sun/afternoon shade in the garden.

Peach Frost


Glow Yellow

# Landmark™

## Ideal landscape lantana with season-long color



Landmark Citrus

Blaze

Citrus

Gold

Peach Sunrise

Rose Glow

Sunrise Rose

White

Yellow

**LANTANA**
*L. camara*

**Landmark™ Series**
**Height:** 15 to 20 in. (38 to 50 cm)
**Spread:** 18 to 24 in. (45 to 60 cm)
**A Simply Beautiful® selection.**

**Vibrant colors liven up the landscape all through the summer. • Consistent strong vigor assures the fastest fill and fullest canopies. • Thrives in extreme heat, humidity and drought.**

Landmark stays controlled from bench to landscape. The dark green-leafed series offers a wide range of vibrant flower colors for easy ordering and terrific retail appeal. Uniform and very free-flowering, the plants recover quickly from rain and other stressful conditions. Less seed set means more continuous flowering. Best suited for 6-in. (15-cm) pots to gallons.

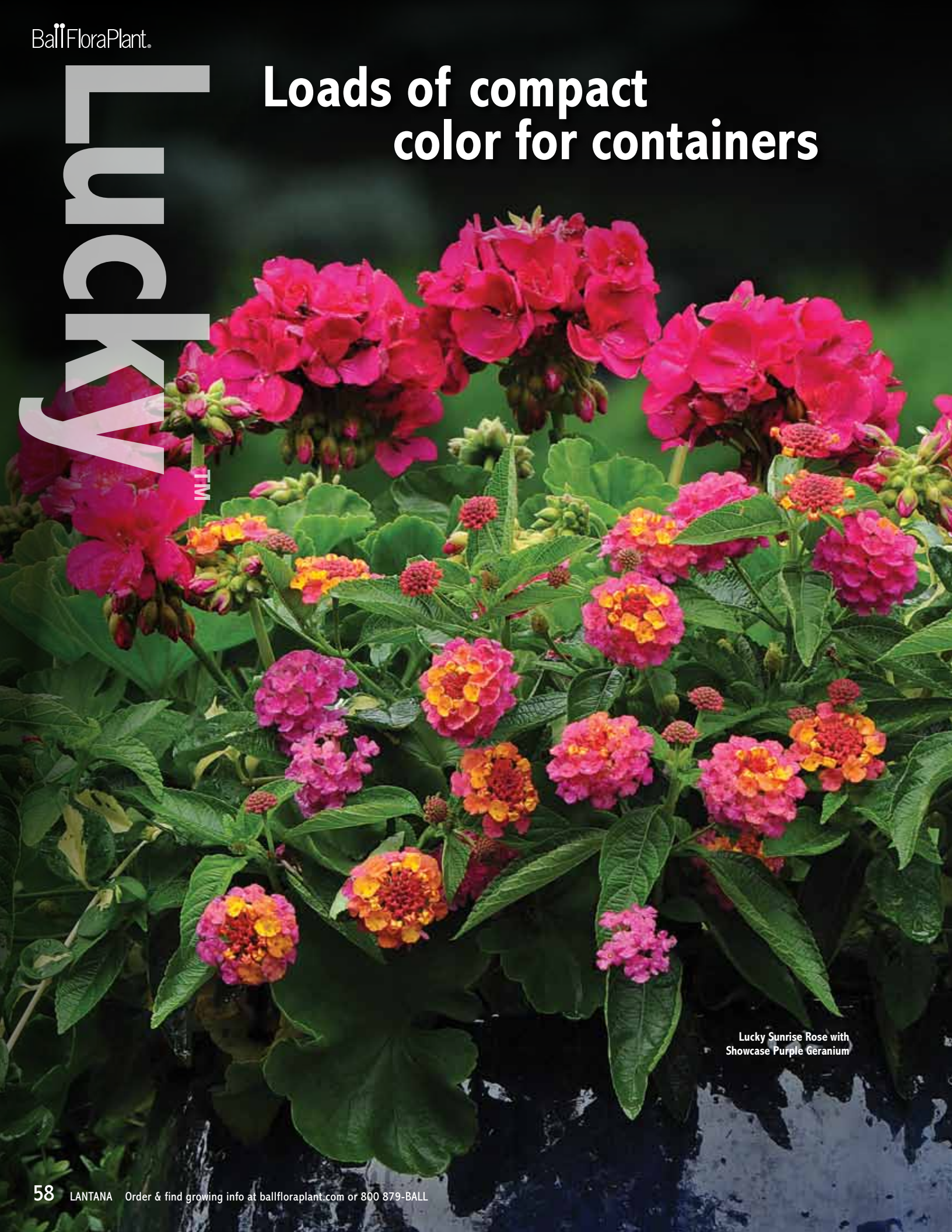
*Landmark Citrus named "Best Lantana" for 2010 at Colorado State University.*

*Low landscape/consumer water needs*

Ball FloraPlant®

# Lucky™

## Loads of compact color for containers



Lucky Sunrise Rose with Showcase Purple Geranium

NEW Lemon Glow

Peach

Pot of Gold

Pure Gold

Red Flame

Sunrise Rose

White

Yellow

**Lucky™ Series**
**Height:** 12 to 16 in. (30 to 40 cm)
**Spread:** 12 to 14 in. (30 to 35 cm)
**A Simply Beautiful® selection.**

**Unique compact habit is tops for small pots, baskets and mixed combos. • Continuous color all season long. • Excellent branching means fewer pinches and less PGRs.**

Like its vigorous Landmark companion, Lucky stands up well to heat, humidity and other stressful conditions. The plants stay upright and mounded with a controlled habit all season, making them ideal for small-space gardens and containers. The dark green foliage contrasts beautifully with the bright flower colors. Less seed set means more continuous flowering. A great series for outdoor production because it bounces back from overhead irrigation and rain.

NEW Lemon Glow holds its eye-catching bicolor pattern well, always showing both yellow and white.

*Lucky Pot of Gold, Pure Gold, White and Sunrise Rose were awarded for Excellent Performance in 2010 at Colorado State University.*

*Low landscape/consumer water needs*

Licorice Helichrysum

Baby Blue Heliotrope

Blazin' Lime Iresine

Dallas Red Lantana

New Gold Lantana

Marine Heliotrope

Blazin' Rose Iresine

Piñata Lantana

Jade Frost Lamium

Purple Trailing Lantana

**HEDERA**
See Perennials, page 86.

**HELICHRYSUM**
*Helichrysum petiolare*

### Licorice
**Height:** 8 to 10 in. (20 to 25 cm)
**Spread:** 18 to 24 in. (45 to 60 cm)
**A Simply Beautiful® selection.**
Low-growing and semi-trailing, silvery green-leafed plant is useful as an accent in containers and baskets.

**HELIOTROPE**
*Heliotropium arborescens*

### Baby Blue
**Height:** 8 to 10 in. (20 to 25 cm)
**Spread:** 12 to 18 in. (30 to 45 cm)
Large, purple-blue umbels top compact, well-branched plants. Improved for vigor, but stays controlled in 4.5 to 5-in. (11 to 13-cm) pots.

### Marine
**Height:** 10 to 14 in. (25 to 35 cm)
**Spread:** 12 to 18 in. (30 to 45 cm)
Upright plant performs well in landscapes, baskets and patio planters.

**IBERIS**
See Perennials, page 87.

**IRESINE**
*Iresine hybrid*

### Blazin' Lime
**Height:** 12 to 16 in. (30 to 40 cm)
**Spread:** 16 to 20 in. (40 to 50 cm)
**A Simply Beautiful® selection.**
Vigorous, upright and full plants feature lime and cream variegated foliage with vibrant rose stems; shows more chartreuse in higher light conditions. Perfect for large mixed containers and landscapes in shade.

### Blazin' Rose
**Height:** 18 to 30 in. (45 to 90 cm)
**Spread:** 16 to 20 in. (40 to 50 cm)
**A Simply Beautiful® selection.**
Striking multi-color leaves have big sales appeal! Strong vigor assures that the plant won't get lost in large mixed plantings; also ideal for landscapes.

**LAMIUM**
Also see Perennials, page 87.
*Lamium galeobdolon*

### Jade Frost
**Height:** 8 to 10 in. (20 to 25 cm)
**Spread:** 3 to 4 ft. (90 cm to 1.2 m)
Fast-growing, trailing accent plant is well-suited to mixed planters and baskets.

**LANTANA**

*Lantana camara*

### Dallas Red
**Height:** 15 to 20 in. (38 to 50 cm)
**Spread:** 18 to 24 in. (45 to 60 cm)
Mounded; useful in combination plantings. Clusters of red flowers fade to orange, yellow.

### New Gold
**Height:** 15 to 20 in. (38 to 50 cm)
**Spread:** 18 to 24 in. (45 to 60 cm)
Mounded and spreading; well-suited to landscapes.

### Piñata
**Height:** 12 to 16 in. (30 to 40 cm)
**Spread:** 12 to 14 in. (30 to 35 cm)
Large-flowered, heat-tolerant plants have a compact habit similar to Lucky varieties.

*Lantana montevidensis*

### Purple Trailing
**Height:** 20 to 24 in. (50 to 60 cm)
**Spread:** 15 to 20 in. (38 to 50 cm)
Good selection for combination plantings.

*Low landscape/consumer water needs*

# Waterfall™

Waterfall Blue Lobelia

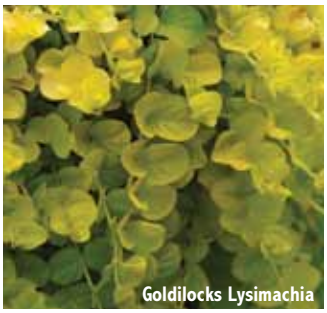
Waterfall Azure Mist Lobelia

Waterfall Light Lavender Lobelia

Waterfall Blue Lobelia

Waterfall White Sparkle Lobelia

Periwinkle Blue Lobelia


Goldilocks Lysimachia

Golden Alexander Lysimachia

**LAVENDER**
See Perennials, page 88.

**LEUCANTHEMUM**
See Perennials, page 88.

**LITHODORA**
See Perennials, page 89.

**LOBELIA**

*Lobelia erinus*

## Waterfall™ Series

**Height:** 8 to 12 in. (20 to 30 cm)
**Spread:** 6 to 8 in. (15 to 20 cm)
**A Simply Beautiful® selection.**
**Best-in-class Blue!** Vigorous, well-branched Waterfall is well-suited to pot-tight growing. Less pinching is needed to send fast, full plants to market. Covered with free-flowering blooms, the mounded, semi-trailing plants fill mixed baskets and containers. Early flowering and daylength neutral for early Spring programs; performs well in many Autumn markets for season-extending sales.

*Lobelia hybrida*

## Periwinkle Blue

**Height:** 8 to 12 in. (20 to 30 cm)
**Spread:** 6 to 8 in. (15 to 20 cm)
**A Simply Beautiful® selection.**
Produces flowers of intense blue-purple with white centers all Summer on very free-flowering, well-branched plants. The semi-trailing habit allows for tight bench spacing and makes a beautiful cascading effect in baskets and containers.

**LYSIMACHIA**
Also see Perennials, page 89.

*Lysimachia nummularia*

## Goldilocks

**Height:** 2 to 4 in. (5 to 10 cm)
**Spread:** 12 in. (30 cm)
**USDA Hardiness Zones:** Temperate perennial in Zones 3 to 10
Low-care, trailing plant has lime green leaves that turn iridescent in the sun. Self-cleaning. Recommended for use in mixed containers.

*Lysimachia punctata*

## Golden Alexander

**Height:** 18 to 24 in. (45 to 60 cm)
**Spread:** 18 to 24 in. (45 to 60 cm)
**USDA Hardiness Zones:** Temperate perennial in Zones 3 to 8
Gold-edged variegated leaves look great at retail and put season-long color into landscapes, perennial borders and combos. Upright and vigorous for gallon programs.

*Low energy production*

# Voltage™ Yellow

## First in bloom, last one out

Voltage Yellow is now also available as Genesis direct-stick cuttings. Get more info on the following page and at ballfloraplant.com — click on Culture Resources.

**OSTEOSPERMUM**
*Osteospermum hybrid*

**Voltage™ Yellow**
**Height:** 10 to 16 in. (25 to 40 cm)
**Spread:** 24 to 28 in. (60 to 70 cm)
**A Simply Beautiful® selection.**

**Vibrant Voltage Yellow shouts SPRING! • When shoppers crave color the most, this clear yellow variety stops traffic. • It's *the first osteo in bloom and the last out of bloom.***

Voltage Yellow features a mounded habit with very flexible stems that sleeve, ship and show well, making it ideal for large baskets, quarts and gallons. The low habit and high-impact color make landscapes shine. This low-energy variety has excellent branching so fewer PGRs are needed to produce naturally full and compact plants.

*Voltage Yellow was named "Best Osteospermum" in 2010 at Colorado State University.*

Voltage Yellow

*Low landscape/consumer water needs* *Low energy production*

# Rooted in innovation

Now you can make great osteos happen…in a fraction of the time! With Genesis osteo cuttings, you can ship a retail-ready, top-quality Serenity™ and Voltage™ Yellow osteo crop in as few as 14 weeks.

**Traditional URC** **Genesis cuttings** arrive ready to direct-stick in the finish container.

**Traditional URC 8 days**

**Genesis cuttings 8 days:** With the callus already on, roots initiate quickly.

**Traditional URC 6 weeks**

**Genesis cuttings 6 weeks:** Direct-stuck Genesis cuttings branch sooner and stronger for a better-quality finished plant.

# Genesis™

## Direct-stick Osteospermum Cuttings

**Less labor.** Genesis osteo cuttings can be direct stuck to the finish container, so propagation is cut by 7 to 9 days. Rooting media and transplanting labor are eliminated.

**Shortened crop time.** Presorted for the best rooting uniformity, Genesis direct-stick cuttings cut rooting time in half. You move crops off the bench faster, get more turns per season and reduce overall input costs.

**Less shrink.** Genesis cuttings arrive presorted for uniformity and primed for the best consistency in propagation, so you can bench run your crop.

**Reduced input costs.** Genesis osteo cuttings can be direct stuck in cold frames and minimal heat environments, also reducing PGR needs.

**Better branching and more flowers.** Direct sticking allows maximum light penetration for more branches – and more color!

**Watch…learn…and grow!**
Visit ballfloraplant.com for BFP TV, your Online Video Learning Center. You'll find several informative, short videos on Genesis direct-stick cuttings, and other current topics of interest.

**Serenity™ Dark Purple**

**Traditional URC 14 weeks**

**Genesis cuttings 14 weeks:** The Genesis osteo is in full bloom, out the door and ready to sell, while the traditional URC osteo is just starting to open flowers.

# Serenity™

## Show-stopping color, superb performance

Serenity is now also available as Genesis direct-stick cuttings – less labor, shorter crop time, less shrink and reduced input costs! Find out more at ballfloraplant.com – click on BFP TV.

NEW Serenity Rose Magic

NEW Rose Magic

NEW Peach Magic

NEW Pink Magic

NEW Golden

Sunset Magic

Lemonade

Pink

White

Lavender Frost

Purple

Lavender Bliss

White Bliss

*Osteospermum ecklonis*

**Serenity™ Series**
**Height:** 10 to 14 in. (25 to 35 cm)
**Spread:** 14 to 20 in. (35 to 50 cm)
**A Simply Beautiful® selection.**

**Exceptional habit and timing uniformity – perfect for early-season bench-run programs. • New "magic" colors change as flowers fully open – a real head-turner at retail. • New varieties feature the same excellent branching as the rest of the Serenity series!**

This easy-to-produce, low-energy crop has excellent basal branching to produce full and mounded plants with tighter bench spacing and fewer PGRs. The colorful, compact and free-flowering plants are dark green-leafed with bright, eye-catching blooms in a broad range of colors. Well-suited to cool-season containers and landscapes; a good full-season performer for coastal markets.

NEW Golden is like an early-season Black-Eyed Susan. NEW Peach Magic starts golden yellow and changes from pale salmon to pink. NEW Pink Magic opens pink-salmon and deepens to true pink. NEW Rose Magic opens bronze-salmon and matures to deep rose pink.

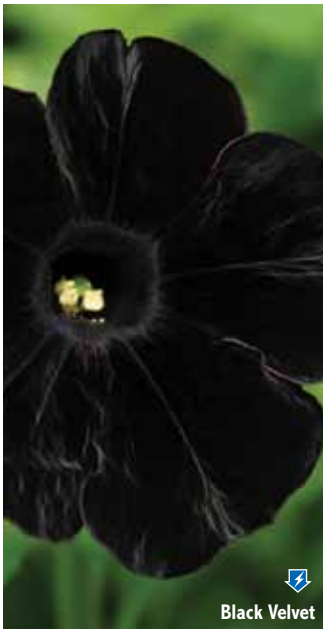
Dark Purple

*Low energy production*

# Black Velvet

## The world's only black petunia!

Black Velvet Petunia and Breathless Euphorbia



Black Velvet

**PETUNIA**
*Petunia x hybrida*

**Black Velvet**
**Height:** 8 to 12 in. (20 to 30 cm)
**Spread:** 8 to 12 in. (20 to 30 cm)
**A Simply Beautiful® selection.**

**One-of-a-kind color partners beautifully with many sun-loving annuals – everything goes with black! • The buzz is building around Black Velvet, making it a sure-fire hit at retail. • An excellent choice for premium baskets and containers**.

Garden writers have already picked up on this innovative black petunia and driven up consumer demand. The upright, mounded plants are early to flower, have a tightly branched habit, and are filled with color all season. Black Velvet is easy to grow with no special culture needed, and is adaptable to cold finishing programs with no PGRs required if grown cool. Our two other distinctive petunias shown here – Phantom and Pinstripe – are the perfect growing and selling companions.

*Black Velvet Petunia was announced the winner of Greenhouse Grower's Industry's Choice Award and chosen as that magazine's Reader's Choice in Summer 2010. Black Velvet was also recognized as one of the best new introductions from the 2010 California Spring Trials and Top Performer at the University of Minnesota in 2010.*

*Low energy production*

# Phantom

MixMasters Candle Light contains Phantom Petunia and Sun Spun Yellow Petunia

# Pinstripe

MixMasters Pixie Dust contains Pinstripe Petunia, Sun Spun White Petunia and Aztec Silver Magic Verbena

Phantom

## Phantom

**Height:** 8 to 12 in. (20 to 30 cm)
**Spread:** 8 to 12 in. (20 to 30 cm)
**A Simply Beautiful® selection.**
**A must-have for any petunia program – stand-alone or in combos.** Phantom shows off a black base color with a distinctive yellow star pattern. It's the perfect easy-to-grow companion to Black Velvet and Pinstripe on the bench, at retail and in the garden.

*Phantom won the 2010 Fleuroselect Industry Award, captivating 28 international judges.*

## Pinstripe

**Height:** 8 to 12 in. (20 to 30 cm)
**Spread:** 8 to 12 in. (20 to 30 cm)
**A Simply Beautiful® selection.**
**Consumers want different…Pinstripe delivers!** This distinctive petunia adds a stylish and sophisticated look to mixed containers, with each of the dark purple blooms showing off a cream white star pattern. Grow, sell and display Pinstripe right along with Black Velvet and Phantom, as they share the same plant habit and easy culture.

Pinstripe

# Sun Spun®

## Roots fast, grows fast, sells fast!

MixMasters Twinkle Toes contains Sun Spun Burgundy, Sun Spun Yellow and Sun Spun Lavender Star

Find more dazzling MixMasters on pages 2-7!

**MOUNDED-UPRIGHT PETUNIA**
*Petunia x hybrida*

## Sun Spun® Series

**Height:** 6 to 10 in. (15 to 25 cm)
**Spread:** 8 to 10 in. (20 to 25 cm)
**A Simply Beautiful® selection.**

*Low energy production*

**The early-flowering, quick-finish, tight-space, lower-temp petunia. • Low energy input crop is highly programmable, ideal for high-density, high-efficiency production. • Perfect for producing profitable baskets and pots, premium pack programs.**

Sun Spun assures speed and efficiency – cuttings root and finish extra-fast, even when direct stuck into the pot. The early-flowering series can be grown cool, and has a tight and compact, ball-shaped habit so plants stay controlled and tangle-free on the bench. High impact at retail, Sun Spun can be displayed pot-tight, stands up to handling and looks fresher longer. In the garden, the lush, flower-filled plants put on standout shows all season with little attention. Plants have excellent mildew tolerance compared to other compact petunias due to the increased air flow through the canopy.

NEW Blue stays strong, won't fade – the only REAL blue in this habit/class of petunia.

*Sun Spun Lavender Star took home Excellent ratings in 2010 from Colorado State University, University of Wisconsin and Kansas State University.*

# Suncatcher™

## Flowers full, fast and fuss-free

MixMasters Betsy Ross contains Suncatcher Midnight Blue, Suncatcher White and Suncatcher Red

Like what you see? More MixMasters on pages 2-7!

**TRAILING PETUNIA**
*Petunia x hybrida*

## Suncatcher™ Series

**Height:** 8 to 12 in. (20 to 30 cm)
**Spread:** 8 to 12 in. (20 to 30 cm)
**A Simply Beautiful® selection.**

**Ball FloraPlant's early-flowering, low-energy input vegetative petunias. • Fast, uniform flowering makes Suncatcher ideal for early southern markets. • Creates flower-filled plants, from tip to top.**

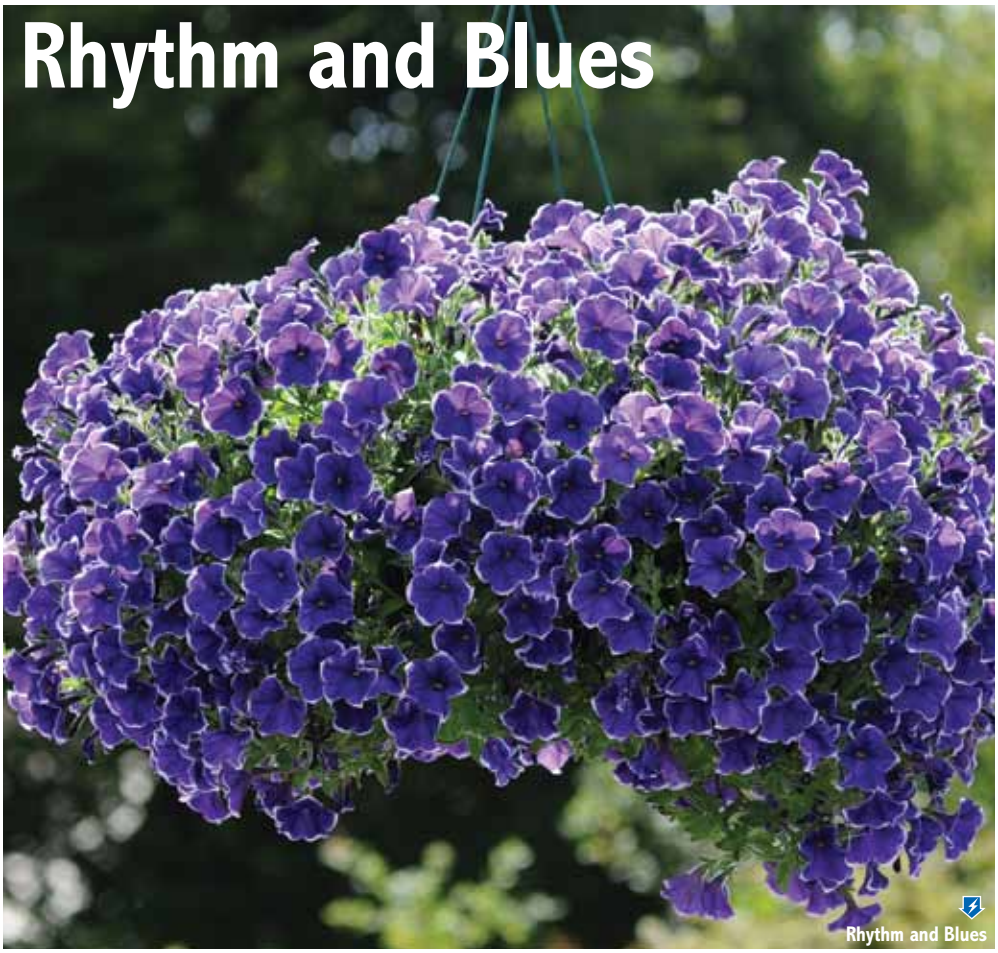
This mounded, trailing series is a must for building early-season, high-margin premium basket and container programs. Suncatcher flowers early even when grown under cool conditions. The series is well-matched across colors for habit and flowering; Coral Prism has medium flower timing. The "no-split" habit creates full, lush plants that are covered entirely with blooms for stunning container and garden shows. A perfect ingredient for mixed combos, the "neighbor-friendly" plants stay controlled and don't overtake the other varieties. Choose from a wider color range than any other trailing/spreading petunia series.

NEW Pink Lemonade packs a punch in retail displays, maintains a two-tone appearance under all conditions.
*Top sellers: Hot Pink, Midnight Blue, Red, White*

*Suncatcher Midnight Blue was cited as an Excellent Performer at the 2010 Michigan State University Trials.*

*Low energy production*

# Rhythm and Blues




**TRAILING PETUNIA**
*Petunia x hybrida*

## Rhythm and Blues

**Height:** 12 to 16 in. (30 to 40 cm)
**Spread:** 12 to 16 in. (30 to 40 cm)
Beautiful color on a high-performance plant! This mounded, spreading and very free-flowering petunia is adaptable to cold finishing programs, making it a low energy input item. Rhythm and Blues has a stable white rim and excellent vigor and is easy to grow for early season premium baskets and containers.

*Low energy production*

## Grow Ball FloraPlant petunias cool: Improve quality, reduce costs

### Finishing Week 9 - South and West Coast (daylength of 10 hours)

| Series | URC to transplant Weeks | Transplant to move to cold Weeks* | 4.5" total crop time from URC Weeks | 6" total crop time from URC Weeks |
|---|---|---|---|---|
| **Black Velvet** | 3 | 2 | 12 to 13 | 13 to 14 |
| **Phantom** | 3 | 2 | 12 to 13 | 13 to 14 |
| **Pinstripe** | 3 | 2 | 12 to 13 | 13 to 14 |
| **Sun Spun** | 3 | 2 | 10 to 11 | 11 to 12 |
| **Suncatcher** | 3 | 2 | 12 to 13 | 13 to 14 |
| **Rhythm and Blues** | 3 | 2 | 12 to 13 | 13 to 14 |

The key to successful battery culture with petunias is utilizing the natural warmth of the day and the power of the sun. Learn more – go to ballfloraplant.com and click on Culture Resources.

### Finishing Week 18 - Midwest and Northeast

| Series | URC to transplant Weeks | Transplant to move to cold Weeks* | 4.5" total crop time from URC Weeks | 6" total crop time from URC Weeks |
|---|---|---|---|---|
| **Black Velvet** | 3 | 2 | 12 to 13 | 13 to 14 |
| **Phantom** | 3 | 2 | 12 to 13 | 13 to 14 |
| **Pinstripe** | 3 | 2 | 12 to 13 | 13 to 14 |
| **Sun Spun** | 3 | 2 | 10 to 11 | 11 to 12 |
| **Suncatcher** | 3 | 2 | 12 to 13 | 13 to 14 |
| **Rhythm and Blues** | 3 | 2 | 12 to 13 | 13 to 14 |

*The plant root system needs to be established for two to three weeks before exposing to battery culture.
**Note:** Growers should use the information presented here as a starting point. Crop times will vary depending on the climate, location, time of year and greenhouse environmental conditions.

Ruffle Plum Vein

Double Wave Red

Ruffle Bright Purple

Ruffle Light Lavender

Double Wave Blue Vein

Double Wave Blue Velvet

Double Wave Lavender

Double Wave Pink

Ruffle Pink

Ruffle Plum Vein

Double Wave Purple

Double Wave Red

Double Wave Rose

Double Wave White

**DOUBLE PETUNIA**
*Petunia x hybrida*

## Ruffle™ Series

**Height:** 8 to 12 in. (20 to 30 cm)
**Spread:** 12 to 14 in. (30 to 35 cm)
**Lush, mounded plants stay full at the center, filling out baskets and containers quickly.** Big-bloomed Ruffle is available in a wide color range, over dark green leaves that maintain their color all season. Ruffle's sturdier habit and stronger branches make them easier to ship.

Ruffle White

**SPREADING DOUBLE PETUNIA**
*Petunia x hybrida*

## Double Wave® Series

**Height:** 6 to 8 in. (15 to 20 cm)
**Spread:** 18 to 24 in. (45 to 60 cm)
**The Wave that's a double!** This double-flowered series delivers the same high performance and versatile uses that have made the entire Wave® family the *most-asked-for-by-name plant brand* ever! Fully double flowers in vibrant colors cover the mounded and spreading, dark green-leafed plants to make outstanding mixed containers, baskets and gardens.

wave® petunias

# Aromatica™

Mix contains Aromatica Royal Nemesia, Aromatica White Nemesia, Panola XP Marina Pansy and Blutopia Bacopa

Royal Blue

Scarlet

Rose Pink

Sky Blue

**NEMESIA**
*Nemesia fruticans*

## Aromatica™ Series

**Height:** 12 to 14 in. (30 to 35 cm)
**Spread:** 10 to 12 in. (25 to 30 cm)
**A Simply Beautiful® selection.**
**Aromatica offers the best matched nemesias for size and flower timing.**
The five-color series also delivers a wider color array, including the first-ever Scarlet and Sky Blue. Very free-flowering, well-branched plants are economical and easy to produce – grow Aromatica cool and dry with less pinching and fewer PGRs.

Compact, upright plants perform well in mixed combos, baskets and borders. Well-suited to early Spring and Autumn sales, Aromatica is the perfect add-on to pansy and garden mum programs, withstanding temperatures as low as 26°F (-3°C).

**A "2 for 1" series – pay for one unrooted cutting, get two to plant. See inside back cover.**

**OENOTHERA**
See Perennials, page 89.

**PENSTEMON**
See Perennials, page 89.

White

*Low energy production*

# Mona Lavender

Mona Lavender Plectranthus

Magilla Purple Perilla

Nicodemus Plectranthus

Nico Plectranthus

Nicolleta Plectranthus

Variegata Plectranthus

**PERILLA**
*Perilla frutescens*

## Magilla® Purple

**Height:** 24 to 36 in. (60 to 90 cm)
**Spread:** 12 to 18 in. (30 to 45 cm)
**A Simply Beautiful® selection.**
Striking, multi-color accent plant stands out in a crowd. Extremely well-branched and vigorous so fewer inputs are needed. Fills in mixed containers fast, and delivers great heat tolerance and Summer performance.

**PEROVSKIA**
See Perennials, page 89.

**PHLOX**
See Perennials, page 90.

**PLECTRANTHUS**

*Plectranthus x hybrida*

## Mona Lavender

**Height:** 12 to 16 in. (30 to 40 cm)
**Spread:** 24 to 36 in. (60 to 90 cm)
**A Simply Beautiful® selection.**
**Easy to program for flower timing.**
Versatile Mona Lavender stands up to high heat in production – it's a terrific northern Fall product and a staple in the South. Very free-flowering with excellent heat and drought tolerance, the plants put on an intense color display in mixed containers and landscapes. Upright plants feature flower spikes covered with dark lavender florets similar to mini-orchids, over fuzzy, dark green foliage that is a rich purple color on the underside. Mona Lavender requires short days to flower.

KIRSTENBOSCH is a registered trademark of the South African National Biodiversity Institute.

Kirstenbosch® National Botanical Garden SOUTH AFRICA

*Plectranthus amboinicus*

## Nicodemus

**Height:** 8 to 10 in. (20 to 25 cm)
**Spread:** 12 to 36 in. (30 to 90 cm)
**A Simply Beautiful® selection.**
A stunning show of fragrant green leaves edged in white on mounded, trailing plants makes this a nice accent for mixed containers and patio planters.

*Plectranthus coleoides*

## Nico

**Height:** 8 to 10 in. (20 to 25 cm)
**Spread:** 12 to 36 in. (30 to 90 cm)
**A Simply Beautiful® selection.**
Vigorous accent plant is known for its dark green foliage and semi-prostrate habit. Useful in combos, patio planters and landscapes.

## Nicolleta

**Height:** 8 to 10 in. (20 to 25 cm)
**Spread:** 12 to 36 in. (30 to 90 cm)
**A Simply Beautiful® selection.**
Fuzzy, silvery gray leaves make this a stunning container accent plant.

## Variegata

**Height:** 8 to 10 in. (20 to 25 cm)
**Spread:** 12 to 18 in. (30 to 45 cm)
Trailing and vigorous, this white-edged foliage plant is useful in combination containers and baskets.

Fairytales Cinderella Purslane

Río Scarlet Purslane

Rosemary Barbecue

© The John Henry Company

Río Apricot Purslane

Río Orange Purslane

Río Rose Purslane

Río Scarlet Purslane

Río White Purslane

Río Yellow Purslane

**PURSLANE**

*Portulaca grandiflora*

## Fairytales Cinderella

**Height:** 4 to 8 in. (10 to 20 cm)
**Spread:** 14 to 16 in. (35 to 40 cm)
**The largest double blooms on the market.** Heat and drought-tolerant, this easy-care, low-spreading plant works well in baskets, large containers, landscapes and rock gardens.

*Portulaca oleracea*

## Río™ Series

**Height:** 4 to 8 in. (10 to 20 cm)
**Spread:** 14 to 16 in. (35 to 40 cm)
**A Simply Beautiful® selection.**
**Grow and ship all six large-flowered varieties at the same time.** Very well-branched, free-flowering and vigorous, Río is well-suited to baskets and patio planters. The drought-tolerant, low-spreading plants thrive through Summer heat.

**ROSEMARY**

*Rosemary officinalis*

## Rosemary Barbecue

**Height:** 36 to 48 in. (91 to 122 cm)
**Spread:** 18 to 24 in. (46 to 61 cm)
This fastest-growing, upright rosemary produces small blue flowers.

*Low landscape/consumer water needs*

# Mystic Spires Blue

Mystic Spires Blue Salvia

# Blue Print

Blue Print Scaevola

Mystic Spires Blue Salvia

Black & Blue Salvia

Blue Fan Scaevola

Blue Ribbon Scaevola

**SALVIA**
Also see Perennials, page 92.

*Salvia longispicata x farinacea*

## Mystic Spires Blue

**Height:** 18 to 24 in. (45 to 60 cm)
**Spread:** 12 to 18 in. (30 to 60 cm)
**A Simply Beautiful® selection. Covered with true blue flowers all season…2009 Texas Superstar Variety.** A premium variety that can command a higher price point, Mystic Spires Blue delivers excellent garden performance that keeps consumers coming back. The sturdy, dark green-leafed plants are naturally compact, well-branched and very free-flowering. Heat-hardy plants are great for late Spring/Summer programs. This dwarf 'Indigo Spires' type is well-suited to landscapes and mixed containers.

*Salvia guaranitica*

## Black & Blue

**Height:** 24 to 30 in. (60 to 75 cm)
**Spread:** 12 to 18 in. (30 to 45 cm)
Very vigorous, well-branched plants show off large, dark blue flowers over dark green, velvety leaves. Heat-hardy plants are great for late Spring/Summer programs.

**SCABIOSA**
See Perennials, page 92.

**SCAEVOLA**

*Scaevola aemula*

## Blue Print

**Height:** 6 to 10 in. (15 to 25 cm)
**Spread:** 18 to 24 in. (45 to 60 cm)
**A Simply Beautiful® selection. Controlled on the bench, cascades in containers.** Well-branched, mounding scaevola stays compact on the bench for more profitable production and shipping, then trails for the consumer as it matures. Great for baskets and containers, showing off lavender-blue, fan-shaped flowers. Well-suited to 4 to 6-in. (10 to 15-cm) pots up to gallons, making this a premium choice for retailers. BLUE PRINT is bred by Kings Park, Western Australia.

KINGS PARK
WESTERN AUSTRALIA

## Blue Fan

**Height:** 12 to 14 in. (30 to 35 cm)
**Spread:** 8 to 10 in. (20 to 25 cm)
Trailing variety is well-suited to baskets, containers and landscapes.

*Scaevola humilas*

## Blue Ribbon

**Height:** 12 to 14 in. (30 to 35 cm)
**Spread:** 8 to 10 in. (20 to 25 cm)
Abundant blue-purple, fan-shaped flowers provide a continuous display of color. These mounded and upright plants are ideal for mixed containers and baskets.

Salsa Verde Sedum

Angelina Sedum

Coral Reef Sedum

Sea Urchin Sedum

Blue Spruce Sedum

Tricolor Sedum

Blue Chalk Senecio

**SEDUM**
Also see Perennials, page 93.

*Sedum lineare variegatum*

### Sea Urchin
**Height:** 2 to 4 in. (5 to 10 cm)
**Spread:** 24 to 36 in. (60 to 90 cm)
**USDA Hardiness Zones:** 3 to 10
Small, narrow, medium to silver-green leaves are edged in white. Mounded, spreading plants are extremely drought tolerant.

*Sedum makinoi*

### Salsa Verde
**Height:** 3 to 6 in. (7 to 15 cm)
**Spread:** 8 to 10 in. (20 to 25 cm)
**USDA Hardiness Zones:** 3 to 10
Drought-tolerant, mounded plants are well-branched and filled with flat, rounded, dark green leaves. Small, starlike flowers in late Summer. Great for green roofs.

*Sedum reflexum*

### Blue Spruce
**Height:** 3 to 6 in. (7 to 15 cm)
**Spread:** 8 to 12 in. (20 to 30 cm)
**USDA Hardiness Zones:** 4 to 10
Drought-tolerant, low-growing and spreading plants have blue, needlelike foliage with yellow blooms in Summer.

*Sedum rupestre*

### Angelina
**Height:** 3 to 6 in. (7 to 15 cm)
**Spread:** 6 to 8 in. (15 to 20 cm)
**USDA Hardiness Zones:** 3 to 10
Chartreuse foliage is topped by yellow flowers that are evergreen in warm areas; mature to orange in Autumn in cooler areas. Drought-tolerant variety is low-growing and fast spreading. Supplied as an unbudded cutting.

*Sedum spurium*

### Tricolor
**Height:** 4 to 5 in. (10 to 13 cm)
**Spread:** 16 to 20 in. (20 to 50 cm)
**USDA Hardiness Zones:** 3 to 10
Heat-tolerant, low-irrigation succulent has a mat-forming habit in landscapes, xeriscapes or on green roofs; cascades in planters and baskets. Small, rounded green leaves are edged in white and tinged with pink; pink blooms appear in Summer.

*Sedum tetractinum*

### Coral Reef
**Height:** 3 to 4 in. (7 to 10 cm)
**Spread:** 12 to 24 in. (30 to 60 cm)
**USDA Hardiness Zones:** 6 to 10
Mounded, spreading groundcover has round, flat, green foliage that turns reddish-bronze in Autumn. Bright yellow flowers in late Spring.

**SENECIO**
*Senecio vitalis*

### Blue Chalk
**Height:** 6 to 12 in. (15 to 30 cm)
**Spread:** 8 to 10 in. (20 to 25 cm)
Upright, drought-tolerant plants have narrow, long, fleshy leaves that look like "fingers" along each stem.

*Low landscape/consumer water needs*

Persian Shield Strobilanthes

Sunny Orange Wonder Thunbergia

Luminaire Harvest Red Snapdragon

Luminaire Deep Purple Snapdragon

Luminaire Hot Pink Snapdragon

Luminaire Sugarplum Snapdragon

Luminaire White Snapdragon

Luminaire Yellow Snapdragon

**SNAPDRAGON**
*Anthirrinum majus*

### Luminaire™ Series

**Height:** 8 to 10 in. (20 to 25 cm)
**Spread:** 16 to 20 in. (40 to 50 cm)
The most uniform trailing snaps on the market are ideal for bench running. Grown cool, Luminaire is an economical season extender. The free-flowering, mounded plants boast lots of colors including stunning Autumn hues. Ideal for early and mid-season mixed containers and baskets.

**STACHYS**
See Perennials, page 94.

**STROBILANTHES**
*Strobilanthes dyeriaus*

### Persian Shield

**Height:** 18 to 24 in. (45 to 60 cm)
**Spread:** 24 in. (60 cm)
Very vigorous with excellent heat tolerance, Persian Shield works well in mixed containers, baskets and window boxes.

**THUNBERGIA**
*Thunbergia alata*

### Sunny™ Series

**Height:** 5 to 8 ft. (1.5 to 2.4 m)
**Spread:** 16 to 24 in. (20 to 60 cm)
**A Simply Beautiful® selection. Ball FloraPlant is the only source for in-demand unrooted thunbergia cuttings.** This vigorous vine produces very large, brightly colored flowers all Summer. Sunny has a short crop time under warm conditions. Great for baskets, large containers, and upright vining areas.

Sunny Lemon Star Thunbergia

Sunny Orange Wonder Thunbergia

# Aztec®

## Grower-proven series grows, ships and sells well

MixMasters High Voltage contains Aztec Red Velvet Verbena and Voltage Yellow Osteospermum

See all of our colorful MixMasters on pages 2-7!

NEW Burgundy

Blue Velvet

NEW White Improved

Red Velvet

Coral

Dark Red

Lavender

Light Pink

Pink

Cherry Red

Violet

**VERBENA**

*Verbena x hybrida*

## Aztec® Series

**Height:** 8 to 10 in. (20 to 25 cm)
**Spread:** 12 to 18 in. (30 to 45 cm)
**A Simply Beautiful® selection.**

**Excellent powdery mildew tolerance – needs fewer chemical applications. • Fast off the bench and to retail stores. • Great color range for "one-stop" shopping.**

Early-flowering Aztec has unbeatable uniformity and superior vigor for easy growing, shipping, selling. The mounded, trailing plants stand up to heat and humidity plus cool temperatures, assuring that these three-season performers stay lush and healthy from Spring through Autumn. Excellent performance in landscapes and small to large containers and baskets.

NEW Burgundy won't fade – stays deep, rich and velvety! NEW White Improved grows fuller with a semi-upright habit; mixes beautifully with other Aztec colors.

*In 2010, Aztec Blue Velvet was a top performer at the Michigan State trial and a Silver Medal Winner at the University of Illinois Extension Idea Garden.*

White Pearl

Wild Rose

*Low landscape/consumer water needs*
*Low energy production*

# Aztec® Magic

Aztec Purple Magic

Aztec Dark Pink Magic

Aztec Grape Magic

Aztec Plum Magic

Aztec Purple Magic

Aztec Silver Magic

Aztec White Magic

## Aztec® Magic Series

**Height:** 8 to 10 in. (20 to 25 cm)
**Spread:** 12 to 18 in. (30 to 45 cm)
**A Simply Beautiful® selection.**
**The best trailing verbenas.** Aztec Magic is an ideal component in mixed containers and hanging baskets, or in the landscape. Distinguished by their fine, serrated foliage, the bright and colorful plants thrive in heat and sun. Delivers a quick crop time, uniform flowering and the same exceptional powdery mildew tolerance as Aztec. Ideal for early to mid-season pots and baskets.

# Wildfire™

Wildfire Dark Red

Wildfire Dark Purple

Wildfire Rose

Wildfire Dark Red

Wildfire Violet

Wildfire White

## Wildfire™ Series

**Height:** 8 to 12 in. (20 to 30 cm)
**Spread:** 18 to 24 in. (45 to 60 cm)
**"Big vigor" fills pots, baskets and landscapes fast.** This extremely heat-tolerant series makes mounded and trailing plants that are blanketed with colorful blooms, and stay lush and healthy all Summer.

**VERONICA**
See Perennials, page 94.

**VINCA MINOR**
See Perennials, page 95.

**VIOLA**
See Perennials, page 95.

*Verbena canadensis*

## Homestead Purple

**Height:** 8 to 18 in. (20 to 45 cm)
**Spread:** 18 to 24 in. (45 to 60 cm)
Vigorous and mounded plants produce small, dark purple flowers from Summer to Autumn.

Homestead Purple

© The John Henry Company

*Low landscape/consumer water needs*
*Low energy production*

# Perennials

Achillea 'Laura'

Achillea 'Moonshine'

Achillea 'Little Susie'

Achillea 'Peggy Sue'

Achillea 'Pretty Woman

Agastache 'Blue Fortune'

Ajuga 'Bronze Beauty'

Ajuga 'Burgundy Glow'

NEW Ajuga Evening Glow'

Ajuga 'Golden Glow'

All of the perennial varieties included on pages 83 to 95 are part of the Darwin Perennials® program and are available as virus and disease-indexed unrooted cuttings from the Ball Certified Plants® program. See more perennials in the Darwin Perennials catalog – your Ball FloraPlant product rep or Ball Seed sales rep has details.

D rwi r nni l ®

| Class/Variety | USDA Hardiness Zones | Height |
|---|---|---|
| **ACHILLEA** | | |
| ACHILLEA HYBRIDA | | |
| **'Moonshine'** Profusely blooming plants with aromatic foliage. Flat clusters of lemon-yellow flowers. Blooms June to September. | 4-9 | 24 in. (60 cm) |
| ACHILLEA MILLEFOLIUM | | |
| **'Laura'** **A Ball Unrooted Exclusive.** Sturdy, compact and upright stems display sprays of non-fading, ruby red flowers with extra-large white eyes from June to September. | 4-9 | 16 in. (40 cm) |
| **'Little Susie'** **A Ball Unrooted Exclusive.** The strong, branching stems of this compact, upright variety hold non-fading, mid-pink flowers. Blooms June to September. | 4-9 | 16 in. (40 cm) |
| **'Peggy Sue'** **A Ball Unrooted Exclusive.** Strong, well-branched stems on these upright plants hold eye-catching and non-fading, apricot-orange flowers. Blooms June to September. | 4-9 | 16 in. (40 cm) |
| **'Pretty Woman'** **A Ball Unrooted Exclusive.** Non-fading pink blooms from June to September highlight the sturdy, upright, well-branched stems. | 4-9 | 24 in. (60 cm) |
| **AGASTACHE** *A. hybrid* | | |
| **'Blue Fortune'** Dense, blue spikes have purple-violet bracts from mid to late Summer. Aromatic foliage is gray-green. Works well as a home garden cut flower. | 6-9 | 24-36 in. (60-90 cm) |
| **AJUGA** | | |
| A. REPTANS | | |
| **'Bronze Beauty'** The striking metallic-bronze foliage makes this low-growing plant a great focal point in any garden or container. Shows off bright blue flowers May through June. | 3-9 | 3-6 in. (7-15 cm) |
| **'Burgundy Glow'** The many shades of this plant's foliage give it a unique appearance. Leaves show shades of white, pink, rose and green, then turn deep bronze in Autumn. Blue flowers in May and June. | 3-9 | 3-6 in. (7-15 cm) |
| **New** **'Evening Glow'** With its large habit, excellent color and clean foliage, this fast-to-finish plant fills in quickly – ideal for containers and as a groundcover for perennial borders. | 4-9 | 8-10 in. (20-25 cm) |
| **'Golden Glow'** Patterned gold foliage shows off bright blue flowers in May or June. | 3-9 | 3-6 in. (7-15 cm) |

Ajuga Chocolate Chip

Aster 'Purple Dome'

Boltonia Jim Crockett

Caryopteris 'Longwood Blue'

Artemisia 'Powis Castle'

Artemisia 'Silver Mound'

Ceratostigma plumbaginoides

Coreopsis 'Nana'

© The John Henry Company

Coreopsis Sunny Day

| Class/Variety | USDA Hardiness Zones | Height |
|---|---|---|
| A. TENORII | | |
| **Chocolate Chip** Leaves are a mix of rich chocolate-purple and green (deeper color in full sun). Short spikes of upright, light blue flowers in May and June. Smallest-foliaged Ajuga on the market. | 3-9 | 4 in. (10 cm) |
| **ARTEMISIA** | | |
| ARTEMISIA ABORESCENS | | |
| **'Powis Castle'** Useful as an edging or border plant. Features finely textured, evergreenlike spikes that grow mounded and upright. Very vigorous and drought tolerant. An industry standard for the southern U.S. | 5-9 | 36 in. (90 cm) |
| ARTEMISIA SCHMIDTIANA | | |
| **'Silver Mound'** Compact, mounded plants have finely cut, soft silver-gray foliage and small yellow blooms in the Summer. Best for cooler climates. | 3-8 | 6-12 in. (15-30 cm) |
| **ASTER** *A. dumosus* | | |
| **'Purple Dome'** First clean source of this popular Autumn perennial. Compact, vigorous and well-branched with fuzzy, narrow, dark green foliage. Produces an abundance of vivid purple flowers with yellow centers in late Summer. | 4-9 | 20 in. (50 cm) |
| **BOLTONIA** *B. asteroides var. latisquama* | | |
| **Jim Crockett** **A Ball Unrooted Exclusive.** U.S. native is early and free-flowering with medium to dark green foliage and abundant lavender blooms with yellow centers from May to September. Compact and mounded habit. | 4-9 | 18-24 in. (45-60 cm) |
| **CARYOPTERIS** *C. x clandonensis* | | |
| **'Longwood Blue'** Excellent rich blue selection with upright growth, long bloom time, heavy flower production and silvery foliage. Blooms late Summer to Autumn. | 5-9 | 24 in. (60 cm) |
| **CERATOSTIGMA** | | |
| **C. plumbaginoides** Small blue flowers over shiny green foliage that turns bronze-red in Autumn. Very vigorous and mounded, this plant spreads rapidly as a groundcover. Flowers July to September. | 5-8 | 8-12 in. (20-30 cm) |
| **COREOPSIS** | | |
| COREOPSIS AURICULATA | | |
| **'Nana'** Ball FloraPlant is the only source of virus-free Nana in the world. Small, daisylike flowers that appear in early Spring and Summer are brilliant in orange-yellow colors. Bushy plants have large, rounded, dark green, evergreen foliage. Performs best in well-drained soil in rock gardens and borders. | 3-9 | 9 in. (23 cm) |
| COREOPSIS GRANDIFLORA | | |
| **Sunny Day** **A Ball Unrooted Exclusive.** Many large, single, yellow blooms on compact plants set off this North America native. Blooms May to September; will rebloom if spent flowers are removed. | 4-9 | 24 in. (60 cm) |

Coreopsis 'Jethro Tull'

Coreopsis 'American Dream'

© by Sterling Images® LTD. 2006

Coreopsis 'Moonbeam'

NEW Coreopsis 'Tweety'

Coreopsis 'Zagreb'

Delosperma cooperi

© The John Henry Company

Delosperma Sequins

| Class/Variety | USDA Hardiness Zones | Height |
|---|---|---|
| COREOPSIS HYBRIDA | | |
| **'Jethro Tull'** A cross of 'Zamfir' and 'Early Sunrise', this variety produces fluted, non-fading, golden yellow flowers. Compact, dwarf habit creates an outstanding pot display with blooms all Summer. Cutting back encourages new flowers; will rebloom without. | 4-9 | 15 in. (38 cm) |
| COREOPSIS ROSEA | | |
| **'American Dream'** Tough and drought-tolerant plants have dark green foliage and pink-purple flowers in late Summer. More spreading than other varieties. **A "2 for 1" variety – pay for one unrooted cutting, get two to plant. See inside back cover.** | 3-9 | 9-15 in. (23-38 cm) |
| COREOPSIS VERTICILLATA | | |
| **'Moonbeam'** Drought-resistant, bushy perennial has daisylike flowers and threadlike, finely divided foliage. Blooms long and profusely with small lemon-yellow flowers from July to September. **A "2 for 1" variety – pay for one unrooted cutting, get two to plant. See inside back cover.** | 3-9 | 18 in. (45 cm) |
| **New 'Tweety'** Everblooming plant with plenty of sunny yellow flowers boasts a compact, bushy habit requiring no PGRs or bulking. | 6-9 | 14-16 in. (36-40 cm) |
| **'Zagreb'** The toughest and best-performing variety in this species. Upright, bushy plant bears deep golden yellow flowers in Summer. **A "2 for 1" variety – pay for one unrooted cutting, get two to plant. See inside back cover.** | 3-9 | 16-24 in. (40-60 cm) |
| **DELOSPERMA** | | |
| DELOSPERMA COOPERI | | |
| **D. cooperi** Light green, succulent foliage has a mat habit with daisylike, fluorescent purple-red flowers in early to mid-Spring. Very hardy; prefers hot, dry conditions. | 6-10 | 3-6 in. (7-15 cm) |
| DELOSPERMA FLORIBUNDUM | | |
| **Sequins** **A Ball Unrooted Exclusive.** Low-growing succulent is excellent in the hottest, driest areas. Striking purple and white bicolor blooms in mid-July. | 6-9 | 4-6 in. (10-15 cm) |
| **ERODIUM** *E. chamaedryoides* | | |
| **'Charm'** Mounded variety has tiny, saucer-shaped pink flowers from late Spring to Summer. Silver foliage has small, scalloped leaves. Perfect for rock gardens. | 6-9 | 4-6 in. (10-15 cm) |
| **ERYSIMUM** *E. linifolium* | | |
| **'Bowles Mauve'** This variety has narrow, gray-green leaves that stay evergreen in mild Winters. Large flower heads have bright lavender blooms that are especially brilliant in Spring. | 6-8 | 12-15 in. (30-38 cm) |
| **Fragrant Sunshine** Compact, bushy variety displays dark green foliage with a silver sheen, topped by bright yellow blooms with a spicy scent. | 6-8 | 18 in. (45 cm) |

Erodium 'Charm'

Erysimum 'Bowles Mauve'

Erysimum Fragrant Sunshine

*Low landscape/consumer water needs*

Euphorbia Tiny Tim

Gaillardia 'Fanfare'

Gaura Ballerina Rose

Gaura Ballerina Blush

Galium odoratum

Gaura Ballerina White

Gaura 'Siskiyou Pink'

© The John Henry Company.

Hedera 'Baltic'

Hedera 'Glacier'

Hedera Needlepoint'

Hedera 'Thorndale'

© The John Henry Company.

| Class/Variety | USDA Hardiness Zones | Height |
|---|---|---|
| **EUPHORBIA** *E. martinii* | | |
| **Tiny Tim** Drought-tolerant, upright and mounded plants are well-branched and vigorous. Fleshy, medium green leaves are topped by spikes of chartreuse flowers with red eyes in early Spring. | 6-9 | 20 in. (50 cm) |
| **GAILLARDIA** *G. grandiflora* | | |
| **'Fanfare'** Flamboyant blooms from June to September have outer petals that are replaced by tubular flowers around the center. Each of these ray flowers is red on the outside, flaring out to bright yellow tips. Neat, mounded, light green-leafed plants are heat and drought tolerant. | 4-8 | 20 in. (50 cm) |
| **GALIUM** | | |
| **G. odoratum** Low-growing, spreading groundcover has glossy green foliage and fragrant, white, star-shaped flowers in Spring. Prefers moist, well-drained soil. | 3-9 | 6-12 in. (15-30 cm) |
| **GAURA** *G. lindheimeri* | | |
| **Ballerina Series** **A Ball Unrooted Exclusive.** Compact, well-branched, dark-leafed plants bloom continuously. • **Blush** • **Rose** • **White** Most compact, well-branched white Gaura on the market. | 6-9 | 12-18 in. (30-45 cm) |
| **'Siskiyou Pink'** Heat and humidity-tolerant plant has clusters of bright red-pink flowers with white stamens, atop willowy foliage. | 6-9 | 24-36 in. (60-90 cm) |
| **HEDERA** (ENGLISH IVY) *H. hybrid* | | |
| **'Baltic'** Purple-green stems hold tri-lobed leaves of dark green with light green veins that turn white in Winter. Extremely hardy and fast growing, spreading up to 20 ft. (6 m). | 5-9 | 3-5 in. (7-13 cm) |
| **'Glacier'** Vining, self-branching variety has small to mid-size leaves that are grayish-white with green variegation, in the traditional ivy shape. | 5-9 | 3-5 in. (7-13 cm) |
| **'Needlepoint'** Tolerant of drought and high heat, this low-growing and spreading variety has green leaves with sharply pointed lobes. Ideal as a groundcover or in hanging baskets. Climbs several feet. | 6-9 | 3-5 in. (7-13 cm) |
| **'Thorndale'** Very hardy plants have purple-green stems and large, five-lobed leaves of dark green with light-colored veins that turn white in Winter. Good groundcover; climbs several feet. | 5-9 | 3-5 in. (7-13 cm) |

*Low landscape/consumer water needs*

Heuchera Harvest Lemon Chiffon

Heuchera Harvest Burgundy

Heuchera Harvest Silver

Heuchera 'Swirling Fantasy'

Iberis Alexander's White'

Iberis 'Golden Candy'

Iberis 'Purity'

Lamium 'Anne Greenaway'

Lamium Beacon Silver'

Lamium 'White Nancy'

| Class/Variety | USDA Hardiness Zones | Height |
|---|---|---|
| **HEUCHERA** *H. species* | | |
| **Harvest Series** **A Ball Unrooted Exclusive.** Produces standout foliage displays in gardens and mixed containers. Thrives under short days and cooler temperatures of Autumn. • **Burgundy** Burgundy-bronze foliage. • **Lemon Chiffon** Chartreuse. • **Silver** | 4-9 | 6-12 in. (15-30 cm) |
| **'Swirling Fantasy'** **A Ball Unrooted Exclusive.** First purple-leafed Heuchera with red flowers on the market. Pewter red foliage with dark veins and bright red flowers. | 4-8 | 12 in. (30 cm) |
| **IBERIS** *I. sempervirens* | | |
| **'Alexander's White'** Deep evergreen foliage is covered all Spring by dense, pure white flowers. Spreading plants can be cut back to maintain a compact, mounded shape. Good for northern U.S. and Canada. | 3-8 | 10-12 in. (25-30 cm) |
| **'Golden Candy'** **A Ball Unrooted Exclusive.** Pure white flowers in Spring atop vibrant chartreuse foliage create a unique combination in Iberis. | 3-8 | 9-12 in. (23-30 cm) |
| **'Purity'** Low-growing evergreen shrub has a woody base and lustrous, deep green foliage. An abundance of pure white flowers bloom in Spring; may blush pink in cooler climates. | 3-8 | 9-12 in. (23-30 cm) |
| **LAMIUM** *L. maculatum* | | |
| **'Anne Greenaway'** **A Simply Beautiful® selection.** This groundcover features a mixture of green, silver and chartreuse leaves that turn mauve in the Spring. | 3-9 | 6-8 in. (15-20 cm) |
| **'Beacon Silver'** Trailing, mounded variety has silver leaves surrounded by green margins, and pinkish-purple flowers at the end of the stems all Summer. Prefers evenly moist, well-drained soil. | 3-9 | 6-8 in. (15-20 cm) |
| **'White Nancy'** One of the fastest-growing groundcovers has silver and green variegated foliage, and pure white flowers in early Summer. | 3-9 | 6 in. (15 cm) |

**See more perennials in the DarwinPerennials® catalog – your Ball FloraPlant product rep or Ball Seed sales rep has details.**

Lavender 'Hidcote Blue'

Lavender 'Munstead'

© The John Henry Company.

Lavender 'Goodwin Creek'

© The John Henry Company.

Lavender 'Provence'

Lavender Bella Rose

Lavender Bella Purple

Lavender Bella Rouge

Lavender 'Anouk'

Lavender 'Silver Anouk'

Leucanthemum 'Ice Star'

Leucanthemum 'LaCrosse'

Leucanthemum 'Sante'

Leucanthemum 'Snow Cap'

| Class/Variety | USDA Hardiness Zones | Height |
|---|---|---|
| **LAVENDER** | | |
| LAVANDULA ANGUSTIFOLIA | | |
| **'Hidcote Blue'** A taller variety, with silvery-gray evergreen foliage that is compact and upright. The leaves are aromatic and deep purple flowers appear in the Summer. | 4-8 | 12-18 in. (30-45 cm) |
| **'Munstead'** True dwarf perennial is compact and upright, with narrow, lacy, gray-green foliage that has a slight fragrance. Spikes of lavender blue flowers bloom early. | 4-9 | 12 in. (30 cm) |
| LAVANDULA X INTERMEDIA | | |
| **'Goodwin Creek'** Upright, hedgelike plants have good heat/humidity tolerance. Scented, deeply cut, silver-gray leaves are topped by lavender-blue flowers in Summer. Good for borders and rock gardens. | 7-9 | 24 in. (60 cm) |
| **'Provence'** Fragrant, light purple florets top plants with gray-green evergreen leaves. Good for landscapes and as a garden cut flower. Heat-hardy plants are good for late-season programs. | 6-9 | 24 in. (60 cm) |
| LAVENDER STOECHAS | | |
| **Bella® Series** **A Ball Unrooted Exclusive.** Compact, self-branching plants create low hedges in the garden. Distinctive, brightly colored bracts appear atop each spike in Spring, with secondary flowering in Autumn. Tolerates heat and humidity. Also ideal for containers and as border plants. • **Purple** • **Rose** Rose with rose flags. • **Rouge** Rose with white flags. | 7-9 | 12-18 in. (30-45 cm) |
| **'Anouk'** **A Ball Unrooted Exclusive.** Spanish Lavender has dark violet flowers spikes topped by clear purple wings. Early blooming with compact habit. Good Winter hardiness with resistance to night frost, less sensitive to diseases, and transports better than most Lavenders. | 6-9 | 18 in. (45 cm) |
| **'Silver Anouk'** Compact, upright, evergreen shrub with narrow, blue-silver foliage. In Summer, it has showy heads of dark purple flowers, arranged in vertical stripes, topped with pale purple wings. | 6-9 | 24 in. (60 cm) |
| **LEUCANTHEMUM** *L. hybrid* | | |
| **'Ice Star'** Popular, easy-to-grow perennial features bright white, fully double flowers. The dark green foliage grows into a compact and bushy habit. | 4-8 | 18-24 in. (45-60 cm) |
| **'LaCrosse'** **New** **Now available through the Ball Certified Plants® Program.** Unique variety boasts trumpet-shaped petals and compact, dark green foliage. | 4-8 | 10-12 in. (25-30 cm) |
| **'Santé'** **A Ball Unrooted Exclusive.** Impressive and hardy variety bears double, pure white flowers in Summer on very strong stems. | 4-8 | 26 in. (65 cm) |
| **'Snow Cap'** Features shiny green foliage with a unique, coarsely-toothed shape on thin, lanky stems and single, pure white flowers with yellow centers. Spreads like a groundcover, and tolerates many weather conditions. | 4-8 | 14-18 in. (35-45 cm) |

Lithodora 'Grace Ward'

Lithodora 'Heavenly Blue'

© Joy Sterling Images™ LTD. 2006

Lysimachia 'Goldilocks'

Lysimachia Golden Alexander

Oenothera 'Siskiyou Pink'

Penstemon 'Husker Red'

| Class/Variety | USDA Hardiness Zones | Height |
|---|---|---|
| **LITHODORA** *L. diffusa* | | |
| **'Grace Ward'** Low-growing and trailing, with intense blue flowers at the end of lateral stems in early Spring and glossy green, mat-forming leaves. Prefers moist soil and cool conditions. | 6-8 | 8-12 in. (20-30 cm) |
| **'Heavenly Blue'** One of the lowest-growing of this type, the trailing plants have green foliage that is evergreen in warm climates. Star-shaped, clear blue flowers are produced in early Spring. Prefers moist soil and cool conditions. | 6-8 | 8-12 in. (20-30 cm) |
| **LYSIMACHIA** | | |
| LYSIMACHIA NUMMULARIA | | |
| **'Goldilocks'** Low-care, trailing plant has lime green leaves that turn iridescent yellow in the sun. Self-cleaning. Recommended for use in mixed containers. | 4-9 | 2-4 in. (5-10 cm) |
| LYSIMACHIA PUNCTATA | | |
| **Golden Alexander** Bushy and upright, with gold-edged variegated leaves that put season-long color into borders, landscapes and mixed containers. | 4-8 | 18-24 in. (45-60 cm) |
| **OENOTHERA** *O. speciosa* | | |
| **'Siskiyou Pink'** The most mounded and compact variety in the species, plants are spreading and vigorous especially in warm conditions. Long, linear leaves grow beneath pale pink blooms with white centers that are fragrant and open during the day. | 5-8 | 12-24 in. (30-60 cm) |
| **PENSTEMON** | | |
| PENSTEMON DIGITALIS | | |
| **'Husker Red'** Stems of glossy, oblong, purple foliage are topped with upright branching panicles of bell-shaped white flowers with a touch of pink in early Summer. Foliage holds its color all Summer with enough sunlight. | 4-9 | 30 in. (75 cm) |
| PENSTEMON HYBRIDA | | |
| **'Firebird'** Vigorous and floriferous plant has reddish brown stems and dark green leaves. Large, trumpet-shaped, rich red flowers have a red throat with some pale pink to white at the base. | 6-9 | 24 -36 in. (60-90 cm) |
| **PEROVSKIA** | | |
| **P. atriplicifolia** Woody-based plants have slender, upright panicles of light blue flowers; the airy structure gives a hazy color effect. Finely dissected gray-green foliage has an herbal aroma. Long blooming, up to 15 weeks. | 4-9 | 50 in. (1.3 m) |

Penstemon 'Firebird'

© The John Henry Company.

Perovskia atriplicifolia

Phlox Flame Light Pink

Phlox 'Chattahoochee'

© Ry Sterling Images™ LLU 2006

Phlox Flame Lilac

Phlox Flame Pink

Phlox Flame Purple

Phlox Flame White

Phlox 'Jade'

Phlox 'Neon Flare'

Phlox 'Peppermint Twist'

Phlox 'Swizzle'

Phlox 'Tiara'

| Class/Variety | USDA Hardiness Zones | Height |
|---|---|---|
| **PHLOX** | | |
| PHLOX DIVARICATA | | |
| **'Chattahoochee'** Low-growing plant makes an outstanding groundcover for woodland gardens and a good edging plant. Long, wide, shiny green foliage is topped by very fragrant, violet-blue flowers with maroon eyes from May to July. | 3-9 | 10 in. (25 cm) |
| PHLOX PANICULATA All bloom late Spring to Summer. | | |
| **Flame™ Series** Bred for garden and pot performance, the compact series offers more flexibility in production and maintains its habit in the garden. Proven performer produces big, fragrant blooms in June and July. Extremely powdery mildew tolerant. Unrooted cuttings are available exclusively through Ball FloraPlant. • **Light Pink • Lilac • Pink • Purple • White** Amazing Breeders Company | 4-8 | 18-24 in. (45-60 cm) |
| **'Jade'** Stunning white flowers with green tips. | 4-8 | 15 in. (38 cm) |
| **'Neon Flare'** Intense red flower heart, pure white petals fading to blue-purple with intense red-hot tip. | 4-8 | 15 in. (38 cm) |
| **'Peppermint Twist'** **A Ball Unrooted Exclusive.** Very distinctive pink and white, spoke-patterned flowers are borne on very compact, strong plants. Stronger variety than 'Natascha,' which has similar blooms. Good mildew resistance. | 4-8 | 16 in. (40 cm) |
| **'Swizzle'** **A Ball Unrooted Exclusive.** Unique color combination with pink-white overlapping petals around an intense, hot pink eye. Foliage is a healthy deep green. | 4-8 | 15 in. (38 cm) |
| **'Tiara'** **Now available through the Ball Certified Plants® Program.** Large and full crown of white flowers. | 4-8 | 15 in. (38 cm) |

Phlox Top Shelf 'Piña Colada'

Phlox Top Shelf 'Pink Lady'

Phlox Top Shelf 'Purple Kiss'

Phlox Top Shelf 'Red Caribbean

Phlox Top Shelf 'Tequila Sunrise'

Phlox 'Candy Stripe'
© The John Henry Company

Phlox 'Coral Eye'

| Class/Variety | USDA Hardiness Zones | Height |
|---|---|---|
| **Top Shelf Series** These 5 dwarf phlox varieties have strong, compact stems topped with numerous flower clusters densely packed with florets of overlapping petals up to 1.5 in. (4 cm) in diameter. Better mildew resistance and stronger flowers mean longer shelf life and better shipability. | | |
| **'Piña Colada'** Robust variety produces flowers up to 1.5 in. (4 cm) in diameter with overlapping, pure white petals. Short, dark green-leafed plant is ideal for borders. | 4-8 | 15 in. (38 cm) |
| **'Pink Lady'** Pink petals with white center and pink heart. | 4-8 | 15 in. (38 cm) |
| **'Purple Kiss'** Dwarf, dark green-leafed plants have intense, deep purple petals and a pure white eye; overlapping petals give a full, robust appearance. | 4-8 | 15 in. (38 cm) |
| **'Red Caribbean'** Pink striped petals with bright red center. | 4-8 | 15 in. (38 cm) |
| **'Tequila Sunrise'** Orange flowers. | 4-8 | 15 in. (38 cm) |
| PHLOX SUBULATA ☀ | | |
| **'Candy Stripe'** Low-growing plants form a carpet of blooms, producing white flowers striped with a pink shade in early Spring. | 3-8 | 4 in. (10 cm) |
| **'Coral Eye'** Blush pink flowers with coral-red eye; green, needlelike leaves. | 3-8 | 4-6 in. (10-15 cm) |
| **'Crimson Beauty'** Rosy red blooms in early Spring. | 3-8 | 4 in. (10 cm) |
| **'Drummonds Pink'** The largest flowers of the subulata types are pink with deep pink centers. Blooms in early Spring over spreading, needlelike foliage. | 3-8 | 6 in. (15 cm) |
| **'Emerald Blue'** Lavender-blue flowers in early Spring. | 3-8 | 4 in. (10 cm) |
| **'Emerald Pink'** Short, compact and mounded variety has long-flowering hot pink flowers. | 3-8 | 4 in. (10 cm) |
| **'Fort Hill'** Fringed, slightly fragrant, deep pink flowers with dark eye in early Spring. | 3-8 | 4-6 in. (10-15 cm) |
| **'Red Wings'** Vigorous with striking rosy red flowers in early Spring. | 3-8 | 3-6 in. (7-15 cm) |
| **'Scarlet Flame'** Creates a carpet of red, star-shaped flowers in early to mid-Spring, over creeping, needlelike, evergreen foliage. | 3-8 | 6 in. (15 cm) |
| **'White Delight'** Strong and vigorous with a more open habit than other varieties. Pure white flowers. | 3-8 | 3-6 in. (7-15 cm) |

Phlox 'Crimson Beauty'
© The John Henry Company

Phlox Drummonds Pink'
© Erik H. Pronske, MD. 2006

Phlox Emerald Blue'
© The John Henry Company

Phlox Emerald Pink'
© The John Henry Company

Phlox 'Fort Hill'
© The John Henry Company

Phlox Red Wings'
© The John Henry Company

Phlox Scarlet Flame'
© The John Henry Company

Phlox 'White Delight'
© The John Henry Company

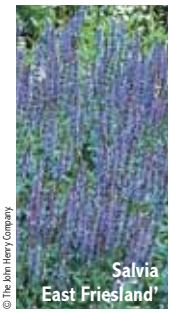
**See more perennials in the DarwinPerennials® catalog – your Ball FloraPlant product rep or Ball Seed sales rep has details.**

Salvia 'Blue Hill'

New Salvia Burgundy Candles'

Salvia 'Caradonna'

© The John Henry Company


Salvia East Friesland'

New Salvia Lyrical 'Blues'

New Salvia Lyrical 'Silvertone'

Salvia 'May Night'

Scabiosa 'Butterfly Blue'

© The John Henry Company

Salvia Marcus

© The John Henry Company

Salvia 'Pink Friesland'

Salvia 'Snow Hill'

Scabiosa Harlequin Blue

Scabiosa 'Pink Mist'

© The John Henry Company

Sedum 'Athoum'

| Class/Variety | USDA Hardiness Zones | Height |
|---|---|---|
| **SALVIA** *S. nemorosa* | | |
| **'Blue Hill'** Exceptionally long bloomer produces lilac-blue flowers from May to September, over neat clumps of gray-green foliage. | 4-9 | 20 in. (50 cm) |
| **New 'Burgundy Candles'** Strong, semi-upright plants bloom with attractive burgundy buds and calyxes from May to July. Demonstrates excellent reblooming and heat tolerance. | 4-9 | 26-28 in. (66-71 cm) |
| **'Caradonna'** Rich, violet-blue flowers on purple-black stems in May to June. | 4-9 | 18 in. (45 cm) |
| **East Friesland** Compact, upright plant is not as tall as other varieties. Medium green, basal leaves are topped by deep purple flowers in mid-Summer. | 4-9 | 18 in. (45 cm) |
| **New Lyrical Series** Strong, robust series features excellent branching and unique, eye-catching colors for real flower power, especially in mixed borders. • **'Blues'** Deep purple-blue. • **'Silvertone'** Rich sky-blue with a silvery edge. | 4-9 | 22-24 in. (56-61 cm) |
| **Marcus®** Compact variety has a broad spreading habit; topped by deep purple-blue flowers June to July. MARCUS is a trademark of Haussermann Stauden & Geholze GBR (DE). | 4-9 | 12 in. (30 cm) |
| **'May Night'** Tall, upright salvia has medium green, textured leaves and large, violet-blue flowers. | 4-9 | 36 in. (90 cm) |
| **'Pink Friesland'** The pink version of East Friesland produces an abundance of deep pink flower spikes in June and July. Mildew tolerant and less vigorous than East Friesland. Amazing Breeders Company | 4-9 | 14 in. (35 cm) |
| **'Snow Hill'** Mounded, gray-green foliage with white flowers in mid-Summer. | 4-9 | 20 in. (50 cm) |
| **SCABIOSA** *S. columbaria* | | |
| **'Butterfly Blue'** Compact, tidy mounds of deep green basal leaves with wiry stems hold single, round, lavender-blue flowers in June and July. Attracts butterflies and bees. | 5-9 | 18 in. (45 cm) |
| **Harlequin Blue** **A Ball Unrooted Exclusive.** Superior vigor delivers better outdoor performance. Lavender-blue, pincushionlike flowers blanket the green foliage from Spring to first frost – blooms are double the size of 'Butterfly Blue.' | 5-9 | 18 in. (45 cm) |
| **'Pink Mist'** Compact, upright habit is similar to 'Butterfly Blue.' Green, textured leaves are topped by soft pink, fully double flowers from Summer to Autumn. | 5-9 | 18 in. (45 cm) |
| **SEDUM** | | |
| SEDUM ALBUM | | |
| **'Athoum'** Plump, dark green rosettes of leaves are red-tipped Summer through Autumn. Light pink to white flowers in July and August. Drought-tolerant, evergreen variety; not frost tender. | 3-10 | 6-8 in. (15-20 cm) |

*Low landscape/consumer water needs*

Sedum 'Abbey Dore'

© DeVroomen 2009

Sedum 'Autumn Joy'

Sedum Postman s Pride

Sedum 'Vera Jameson

Sedum 'Sea Urchin

Sedum 'Salsa Verde'

Sedum 'Blue Spruce'

Sedum 'Angelina'

© The John Henry Company.

Sedum 'Tricolor'

| Class/Variety | USDA Hardiness Zones | Height |
|---|---|---|
| SEDUM HYBRIDA | | |
| **'Abbey Dore'** Well-mounded, blue-green-leafed plants have sturdy stems to support massive flower heads which develop in Summer and bloom in Autumn. Light pink buds open to intense pinkish-red flowers, which turn to bright red seedpods. | 3-9 | 16-18 in. (40-45 cm) |
| **'Autumn Joy'** Fleshy, light green leaves are sharply toothed. The mounded habit supports large flower heads with clusters of salmon-colored, starlike blooms that turn russet in Autumn. | 3-9 | 12-24 in. (30-60 cm) |
| **Postman's Pride** Small, rounded and very dark purple foliage creates a cool effect in the garden. Masses of tiny purple buds arise in early to mid-Summer, bursting into blooms that are at first a rich, pink-tinged red, then mature to burgundy in cool Autumn weather. | 4-8 | 20 in. (50 cm) |
| **'Vera Jameson'** Low-maintenance and drought-tolerant. Large clusters of pink flowers bloom in late Summer. Waxy, gray-green leaves with pinkish edges turn deep burgundy during the Summer. Supplied as an unbudded cutting. | 3-9 | 10-16 in. (25-40 cm) |
| SEDUM LINEARE | | |
| **'Sea Urchin'** Small, narrow, medium to silver-green leaves are edged in white. Mounded, spreading plants are extremely drought tolerant. | 7-9 | 2-4 in. (5-10 cm) |
| SEDUM MAKINOII | | |
| **'Salsa Verde'** Drought-tolerant, mounded plants are well-branched and filled with flat, rounded, dark green leaves. Small, starlike flowers in late Summer. Great for green roofs. | 6-9 | 3-6 in. (7-15 cm) |
| SEDUM REFLEXUM | | |
| **'Blue Spruce'** A favorite groundcover Sedum, the low-growing and spreading plants feature very blue, needlelike foliage complemented by yellow flowers during the Summer. | 4-9 | 3-6 in. (7-15 cm) |
| SEDUM RUPESTRE | | |
| **'Angelina'** Low-growing and fast-spreading, these drought-tolerant plants have fleshy, needlelike, golden yellow foliage. Evergreen in warmer zones; leaves turn orange in Autumn in cooler areas. | 3-9 | 3-6 in. (7-15 cm) |
| SEDUM SPURIUM | | |
| **'Tricolor'** Popular perennial succulent is heat-tolerant with low water needs. Mat-forming with small, rounded green leaves edged in white and tinged in pink; cascades in containers. Pink blooms appear in Summer. Tolerates partial shade. | 3-9 | 4-5 in. (10-13 cm) |

Sedum 'Bon Bon

Sedum 'Coral Reef

Stachys 'Silver Carpet'

Verbena 'Homestead Purple'

© The John Henry Company.

Veronica Atomic Blue

Veronica Atomic Lilac

Veronica Atomic Pink

Veronica Atomic Violet

Veronica 'Baby Doll'

Veronica 'Christy'

Veronica 'First Love'

| Class/Variety | USDA Hardiness Zones | Height |
|---|---|---|
| SEDUM TELEPHIUM | | |
| **'Bon Bon'** Very early-blooming variety makes rounded, branching plants with small, separated clusters of pink flowers over chocolate foliage. | 3-9 | 16 in. (40 cm) |
| SEDUM TETRACTINUM | | |
| **'Coral Reef'** Mounded, spreading groundcover has round, flat and smooth green foliage that turns reddish-bronze in Autumn. Small, bright yellow flowers in late Summer. | 4-9 | 3-4 in. (7-10 cm) |
| **STACHYS** *S. byzantina* | | |
| **'Silver Carpet'** Drought-tolerant, low-growing and spreading variety has soft and fuzzy, oval, grayish-white leaves. Produces a nice contrast in color and texture to grasses or colorful plants. | 4-9 | 12-18 in. (30-45 cm) |
| **VERBENA** *V. canadensis* | | |
| **'Homestead Purple'** Small, dark purple flowers are produced on vigorous, mounded plants from Summer to Fall. | 6-9 | 8-18 in. (20-45 cm) |
| **VERONICA** | | |
| VERONICA X HYBRIDA | | |
| **Atomic Series** Short and mounded, well-branched series needs no pinching, and the compact plants look tidy and attractive in containers. Produces an abundance of strong spikes over healthy, dark green foliage for impressive displays. Tolerant of mildew. • **Blue** Light pink stamens. • **Lilac** Pink stamens. • **Pink** • **Violet** Lilac-blue with pink stamens. Shorter and thicker flower spikes. | 4-8 | 16-20 in. (40-50 cm) |
| **'Baby Doll'** **A Ball Unrooted Exclusive.** Very floriferous, shorter variety with pink flowers and good uniform habit. Early blooming. | 4-8 | 10 in. (25 cm) |
| **'Christy'** **A Ball Unrooted Exclusive.** Great groundcover with a neat, controlled habit all season. Lacy, green foliage is topped by beautiful true blue blooms in early Spring. | 5-8 | 6-8 in. (15-20 cm) |
| **'First Love'** Fast-flowering variety doesn't need vernalization. Short and well-branched with flowers in an amazing fluorescent pink color. | 4-8 | 12 in. (30 cm) |
| **'Purpleicious'** **A Ball Unrooted Exclusive.** Intense purple flowers and dark green foliage on plants that are well-branched with strong, tidy habit. Very healthy, disease-free cultivar. | 4-8 | 20 in. (50 cm) |

*Low landscape/consumer water needs*

Veronica 'Georgia Blue'

Veronica 'Red Fox'

Veronica Royal Candles

Vinca Bowles

Vinca 'Illumination

Vinca Moonlit

Viola Blue Moon

Viola 'Etain

| Class/Variety | USDA Hardiness Zones | Height |
|---|---|---|
| VERONICA PEDUNCULARIS | | |
| **'Georgia Blue'** Mats of dense, gray-green foliage form low to the ground, with taller flowering stems completely covered in intense blue flowers in the Spring. | 5-8 | 8 in. (20 cm) |
| VERONICA SPICATA | | |
| **'Red Fox'** Free-flowering with rosy-red racemes from June to August. | 4-8 | 15 in. (38 cm) |
| **Royal Candles** Long-blooming dwarf variety produces very solid, conical spikes of bright violet-blue flowers from early Summer to early Autumn. | 4-8 | 12 in. (30 cm) |
| **VINCA** *V. minor* | | |
| **Bowles** The leaves of this vigorous, spreading vinca are thicker and glossier than others and mound more densely around the crown. Sky blue flowers appear in Spring. **A "2 for 1" variety – pay for one unrooted cutting, get two to plant. See inside back cover.** | 4-9 | 6 in. (15 cm) |
| **'Illumination'** Popular, low-growing evergreen groundcover has variegated foliage with a broad yellow streak between green margins. Produces small, light lavender-blue flowers in Spring. **A "2 for 1" variety – pay for one unrooted cutting, get two to plant. See inside back cover.** | 4-9 | 4 in. (10 cm) |
| **Moonlit** **A Ball Unrooted Exclusive.** Grown primarily for its interesting, yellow and green variegated leaves. Unique, fully double, lavender blooms appear in Spring. Good garden groundcover; trails in containers. **A "2 for 1" variety – pay for one unrooted cutting, get two to plant. See inside back cover.** | 5-9 | 4-8 in. (10-20 cm) |
| **VIOLA** | | |
| VIOLA X HYBRIDA | | |
| **Blue Moon** **A Ball Unrooted Exclusive.** Mounded, trailing variety is good for groundcover and containers, showing off continuous color from early Spring to Autumn. | 5-9 | 6-8 in. (15-20 cm) |
| **'Etain'** Compact variety blooms profusely Spring through Autumn. Large and very fragrant blooms. | 5-9 | 8-10 in. (20-25 cm) |
| **Harvest Moon** **A Ball Unrooted Exclusive.** Mounded, trailing plants produce continuous, fragrant blooms over dark green foliage from early Spring to Autumn. Well-matched to Blue Moon, Starry Night. | 5-9 | 6-8 in. (15-20 cm) |
| **Jumping Jack** **A Ball Unrooted Exclusive.** Extremely floriferous variety blooms continuously Spring to Autumn. Good for Summer bedding, perennial borders and mixed containers. Much better heat tolerance than "Johnny Jump-Ups" of the past. | 6-8 | 6-8 in. (15-20 cm) |
| **Starry Night** **A Ball Unrooted Exclusive.** Compact, trailing and mounded plants work well in baskets and combos. Blooms have a sweet fragrance. Heat-tolerant. | 5-9 | 6-8 in. (15-20 cm) |
| VIOLA LUTEA | | |
| **New** **'Blackout'** With ultra black flowers, this violet performs in the heat – no stretching during the summer growing season. A striking addition to borders and mixed containers. | 5-9 | 6-8 in. (15-20 cm) |

Viola Harvest Moon

Viola Jumping Jack

Viola Starry Night

NEW Viola 'Blackout'

**See more perennials in the DarwinPerennials® catalog – your Ball FloraPlant product rep or Ball Seed sales rep has details.**

# Ball Seed Exclusives from Our Supplier Partners

Million Kisses Series

NEW Million Kisses Amour

Million Kisses Devotion

Million Kisses Elegance

Million Kisses Romance

Sherbet Bon Bon

**BEGONIA**
*Begonia hybrida*

## Million Kisses® Series

**Height:** 10 to 12 in. (25 to 30 cm)
**Spread:** 30 to 36 in. (75 to 90 cm)
**Trailing length:** 24 in. (60 cm)
**The most vigorous trailing begonia on the market, Million Kisses is easy to grow with better branching and many early, large flowers.** The series flowers 10 to 14 days faster than the competition, which lets growers start later and reduce bench time. Million Kisses has gorgeous retail appeal in baskets and containers, with an abundance of novelty blooms covering the free-flowering plants. Performs best in partial to full shade in areas with low humidity. Bred by Fred Yates. Available in North America as unrooted cuttings from Cohen Propagation Nurseries; liners from Cole, Dickman, Greenstreet, Meadowbrook, Pacific Plug, Sant, Tagawa, Timbuk II, Tuinier and Van de Wetering. • **New Amour** 'Yamour' PPAF • **Devotion** 'Yadev' PPAF
• **Elegance** 'Yagance' PP19,817
• **Romance** 'Yamance' PP19,777

MILLION KISSES is a registered trademark of Frederic C. Yates.

## Sherbet Bon Bon

**Height:** 8 to 10 in. (20 to 25 cm)
**Spread:** 12 to 14 in. (30 to 35 cm)
**Trailing length:** 8 in. (20 cm)
**Unique double blooms in brilliant yellow make Sherbet Bon Bon stunning at retail to draw early, high-impact sales.** Although it has a more upright and less vigorous habit than the Million Kisses series, Sherbet Bon Bon can be grown right alongside in basket and container programs. Performs best in partial to full shade in areas with low humidity. Bred by Fred Yates. Available in North America as unrooted cuttings from Cohen Propagation Nurseries; liners from Cole, Dickman, Greenstreet, Meadowbrook, Pacific Plug, Sant, Tagawa, Timbuk II, Tuinier and Van de Wetering.
'Yabon' PPAF

### Ball Ingenuity

Ball Ingenuity trials, develops and promotes first-to-market and high-demand plants from outsourced suppliers around the world. With dedicated resources from start to finish and exclusive distribution through Ball Seed, Ball Ingenuity brings innovation you can trust.

Candy Flowers Bicolor

Bright Red

Dark Red

Pink With Eye

Violet

**REGAL GERANIUM**
*Pelargonium grandiflorum*

## Candy Flowers® Series

**Height:** 10 to 20 in. (25 to 50 cm)
**Spread:** 12 to 20 in. (30 to 50 cm)

**Candy Flowers bloom early and throughout Summer – a perfect complement to an existing geranium program.** Impressive color – including a unique Bicolor – and floriferous, medium habit make Candy Flowers a real standout in the store and for gardeners. Easier to produce than others of this type, Candy Flowers can be grown cool for energy savings; plants will tolerate more heat once established and will initiate flowers up to 50°F (10°C). Well-suited to 4.5 to 10-in. (11 to 20-cm) pots. Bred by PAC®. Available as unrooted cuttings from PAC; rooted available from Ball Tagawa, Devan and Timbuk II. • **New Strawberry Cream** 'Camstra' PPAF • **Bicolor** 'Cambi' PP20,426 • **Bright Red** 'Camred' PP20,427 • **Dark Red** 'Camdared' PP20,418 • **Pink With Eye** 'Campeye' PP20,425 • **Violet** 'Camvio' PP20,421.

CANDY FLOWERS and PAC are registered trademarks of Elsner PAC Jungpflanzen, Dresden.

*Low energy production*

Bicolor

NEW Strawberry Cream

# Reduce inputs to save money & grow sustainably

## Circle of Life® EcoIndex

Sun Spun Petunia

Allure™ Geranium

Impreza® Impatiens

TerraShell™

**Reduce Energy**
*Identifies products growers can finish successfully with a proven cool-grown, low-energy input program*

**Reduce Water**
*Identifies products that deliver superior performance in a landscape/consumer setting under a restricted watering regime*

**Reduce Chemicals**
*Identifies products which reduce or eliminate the need for costly and often hazardous chemicals*

**Reduce Waste**
*Identifies biodegradable consumer packaging which decreases or eliminates waste*

# EcoIndex

**Ball is the first in the industry to identify a comprehensive, scientifically based index of sustainable genetics and products.** Our Circle of Life EcoIndex guides growers in selecting both plants and hardgoods that let them reduce their energy and chemical inputs to save money and operate more sustainably. They also have the opportunity to grow in eco-friendly packaging and offer consumers varieties with low water needs.

- On-going product testing program
- Data-supported
- Two-year trialing with multiple replications
- Variety specific

**Look for the EcoIndex symbols on varieties throughout the catalog.**

Ball®

# Ball FloraPlant Product Reps

**Jim Kennedy**
Sales Manager
630 588-3464
jkennedy@ballhort.com

At Ball FloraPlant, teamwork is the key to success – not only ours, but yours. Product Reps Camila, Angela and Manda share examples of the solid relationships they've built with growers in their regions. We look forward to many future successes working with you!

**Angela Storm**
Great Lakes, Southeast & Northeast
410 897-7197
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When I joined the Ball FloraPlant team in January 2010, I had the pleasure of working with Rick and Dave Brown, owners of Riverview Flower Farm in Florida, as they trialed the new Voltage Yellow osteospermum. Florida got hit with record breaking cold temperatures that month – so I was amazed that Voltage took two weeks of freezing nights covered only with cloth! In fact, the bays were filled with perfect osteospermums covered with bright yellow flowers. I enjoy working with growers like Rick and Dave, who are open to production trials of new varieties.

**Camila Valle**
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When our Black Velvet petunia won the Industry's and Reader's Choice awards during the Greenhouse Grower's Evening of Excellence in 2010, we already knew it was a winner. We trialed it extensively throughout the U.S. and Canada and the feedback was fantastic. While learning how Black Velvet performed, the growers at Fredriks Nursery in Ripon, California were able to play with many mixed container combinations. The results? Customers loved Black Velvet and asked for more! I plan to continue introducing growers to Ball FloraPlant's most exciting varieties coupled with the best cultural practices for their success.

**Manda Vuksanaj**
Midwest & Canada
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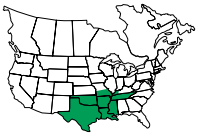
Growers love new varieties – but they want to be confident that these plants perform at retail and beyond! That's why I worked with Tagawa Greenhouses in 2010 to develop a sample program for new Ball FloraPlant varieties including Archangel angelonia. The production trials were a huge success and strongly reinforced Tagawa's trust in Ball FloraPlant's genetics. Tagawa is especially excited about adding our new Fantasia Dark Red zonal geranium to their production. It's going to be a big success for them – and you'll love it, too!

# Ball Seed Sales Reps

If you have questions regarding the Ball Seed sales rep serving your area, please call **800 879-BALL** today for more information.

**Jason Hough**
Director of North American Sales

**SOUTHWEST**



**Glenn Wilson**
Regional Sales Director

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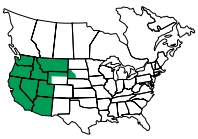

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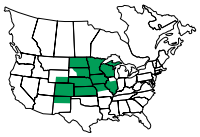

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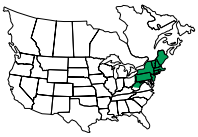

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# Rooting Stations

**Count on the freshest product, reliable availability and efficient truck delivery.**

Every Ball FloraPlant liner you order is grown and shipped to you by one of the top-rated members of the Ball Regional Supplier Network. With 20 locations across the U.S. and Canada, Ball has the largest regional network in the industry. Most orders ship via our suppliers' climate-controlled truck delivery system. It's the most economical and efficient way to receive your order, ensuring top-quality, always-fresh liners delivered to your door when you need them.

Check instant up-to-the-minute availability and place your order for all Ball FloraPlant products 24-7 with WebTrack℠ at **ballseed.com**, or contact your Ball Seed sales rep.

## Ball FloraPlant Rooting Stations

**CALIFORNIA**
Ball Tagawa Growers – Arroyo Grande, California (SG, PE)
Pacific Plug & Liner – Watsonville, California (GE, SG, PE)

**COLORADO**
Tagawa Greenhouse – Brighton, Colorado (GE, SG, PE)

**GEORGIA**
Davis Floral Company – Dewy Rose, Georgia (GE)
James Greenhouse – Colbert, Georgia (PE)
Sunbelt Greenhouses, Inc. – Douglas, Georgia (SG)

**ILLINOIS**
Cumberland Trail Growers, Inc. – St Elmo, Illinois (SG)

**MARYLAND**
Greenstreet Growers – Lothian, Maryland (SG)

**MICHIGAN**
Tuinier Brothers Greenhouses – Kalamazoo, Michigan (GE, SG)

**NEW HAMPSHIRE**
D.S. Cole Growers – Loudon, New Hampshire (SG)

**NEW YORK**
Dickman Farms – Auburn, New York (GE, SG, PE)
Van de Wetering Greenhouses, Inc. – Jamesport, New York (GE, SG)
Zittel Greenhouses – Eden, New York (GE, SG)

**OHIO**
Timbuk II Plant Company – Granville, Ohio (SG)

**OREGON**
Al's Garden Center & Greenhouse – Woodburn, Oregon (SG)

**WASHINGTON**
Van Wingerden Greenhouse – Blaine, Washington (PE)

**CANADA**

**BRITISH COLUMBIA**
Devan Greenhouse – Abbotsford (SG)
West Coast Floral – Surrey (GE)

**ONTARIO**
George Sant & Sons – Kleinburg (SG, PE, GE)

**ALBERTA**
Meadowbrook Greenhouses, Inc. – Calgary (SG)

# Product Forms

Ball FloraPlant offers the most flexible options of any producer, including unrooted and Genesis™ cuttings plus several liner choices and pre-finished material. The freshest cuttings and liners from the top regional supply network grow into the most fantastic plants.

### Unrooted Cuttings

- Wide range of products from a single supplier…"one-stop shopping"
- Lowest input cost
- Cuttings arrive in-line in perforated bags for easy handling
- Guaranteed freight rates

### Genesis Direct-Stick Cuttings

- Shorter crop time than URCs – cuts rooting time in half
- Reduces propagation time and eliminates transplanting labor
- Faster root development, improved branching, better quality plants
- Requires less heat, so input costs are lower

### Pre-Finished Plants

- Fast finish for quick turns and added turns
- Saves energy
- Reduces costs – no transplanting, materials or special handling required, and there is no need for specialized expertise or facility
- Truck delivery from the Ball Regional Supplier Network assures economical, efficient shipping – see more on our rooting stations on page 104.

## Ball FloraPlant Liners

Bring in liners and benefit from a host of advantages including more uniform rooting and finished product, fewer losses, reduced labor and materials, the ability to propagate in tighter spacing, no specialized expertise or facility needed for handling, and an easy fit to current production methods. We offer three profit-building solutions, all of them versatile enough for 4-in. (10-cm) programs to large container and mixed combo programs.

### Standard Rooted Liners

- 100% transplantable yield means reduced shrink
- Widest range of products available
- Truck delivery from the Ball Regional Supplier Network assures economical, efficient shipping – see more on our rooting stations on page 104. FedEx delivery is also available.
- Many varieties are available in the Ball Spring Speculation program – fill your last-minute needs easily and affordably.

### High-Density Liners

- 100% transplantable yield means reduced shrink
- Eliminates handling of unrooted cuttings
- Freight savings compared to standard liners
- Similar finish time as standard liners

### Quick Turn Liners

- 4-week finish time on 4-in. (10-cm) and quarts for quick turns and added turns
- Saves energy
- Truck delivery from the Ball Regional Supplier Network assures economical, efficient shipping – see more on our rooting stations on page 104.

Unrooted Cutting | Genesis Cutting | Standard Rooted Liners | High-Density Liners | Quick Turn Liners | Pre-Finished Plants

# 2012 Vegetative Product Information Guide

Back by popular demand! We've included the following Vegetative Product Information Guide for your convenience.

For detailed growing information on all of Ball FloraPlant's products, visit ballfloraplant.com. Just search for the plant of your choice and click on "Culture Sheet."

| Crop | Tray Size(s) (cells/tray) | Rooting Hormone | Average Days with Mist | Pinch | Average Propagation Time (weeks) | Comments |
|---|---|---|---|---|---|---|
| **ACHILLEA** | 32, 50, 72, 84, 105 | Yes | 7-9 | No | 4-8* | Apply preventative fungicide spray after sticking. Propagate in low-volume mist group. |
| **AGASTACHE** | 32, 50, 72, 84, 105 | No | 6-10 | Yes | 4-9* | Avoid saturated media. Propagate in low-volume mist group. |
| **AJUGA** | 32, 50, 72, 84, 105 | No | 6-8 | No | 3-8* | Avoid burying growing point. Remove from mist when roots emerge (2-3 days after sticking). |
| **ALTERNANTHERA** | 50, 72, 84, 105 | No | 6-8 | Yes | 3-4 | Pinch to improve branching. |
| **ANGELONIA** | 50, 72, 84, 105 | No | 7-9 | Yes | 3-4 | Avoid stretch. Pinch 18-21 days after sticking. |
| **ARGYRANTHEMUM** | 50, 72, 84, 105 | No | 4-7 | No | 3-4 | Avoid water stress. |
| **ARTEMISIA** | 32, 50, 72, 84, 105 | Optional | 7-9 | Optional | 3-8* | Avoid water stress. Apply preventative fungicide spray after sticking. Propagate in low-volume mist group. |
| **ASTER** | 32, 50, 72, 84, 105 | Optional | 7-11 | Yes | 4-8* | Propagates best under long days. |
| **BACOPA (SUTERA)** | 50, 72, 84, 105 | No | 6-8 | Yes | 3 | Stick 2 cuttings per cell. |
| **BIDENS** | 32, 50, 72, 84, 105 | No | 6-9 | Yes | 3-4 | Reduce and eliminate mist as soon as possible. |
| **BOLTONIA** | 32, 50, 72, 84, 105 | Optional | 7-11 | Optional | 4-8* | Avoid saturated media. Apply preventative fungicide. Drench if soil temperature is lower than recommended. |
| **BRACHYSCOME** | 32, 50, 72, 84, 105 | Yes | 6-8 | Yes | 4-5 | Avoid burying growing point. Reduce mist as soon as possible. Stick 2 cuttings per cell. |
| **BRACTEANTHA** | 50, 72, 84, 105 | No | 6-9 | No | 3 | Reduce mist as soon as possible. |
| **CALIBRACHOA** | 50, 72, 84, 105 | No | 6-8 | Yes | 3-4 | Avoid wide fluctuations in soil moisture. Apply preventive fungicide drench at 18-21 days after sticking. |
| **CARYOPTERIS** | 32, 50, 72, 84, 105 | Optional | 7-11 | Yes | 4-9* | Reduce mist as soon as possible. Avoid saturated media. |
| **CERATOSTIGMA** | 32, 50, 72, 84, 105 | Optional | 6-9 | Optional | 4-9* | Apply preventative fungicide drench if soil temperature is lower than recommended. |
| **CHRYSOCEPHALUM** | 50, 72, 84, 105 | Optional | 6-10 | Yes | 3-4 | Propagate in low-volume mist group. |
| **COLEUS** | 50, 72, 84, 105 | No | 4-6 | No | 2-3 | Avoid stretch. Transplant on time. A B-Nine spray (1,500-2,000 ppm) 10-12 days after stick can help to reduce stem elongation. |
| **COREOPSIS AURICULATA, COREOPSIS GRANDIFLORA, COREOPSIS HYBRIDA** | 32, 50, 72, 84, 105 | No | 4-6 | No | 4-8* | Avoid saturated media. |
| **COREOPSIS ROSEA, COREOPSIS VERTICILLATA** | 32, 50, 72, 84, 105 | Optional | 6-9 | Yes | 4-10* | Stick 2 cuttings per cell for Moonbeam, Zagreb and American Dream. Pinch 18-24 days after sticking. Avoid damaging root system when pinching. |
| **CUPHEA** | 50, 72, 84, 105 | No | 6-8 | Yes | 3-4 | Stick 2 cuttings per cell for Allyson Heather. |
| **DAHLIA** | 50, 72, 84, 105 | Yes | 7-10 | No | 3-4 | Hormone will improve rooting. Night-break lighting (10 p.m.-2 a.m.) will reduce likelihood of tuber formation. |
| **DELOSPERMA** | 32, 50, 72, 84, 105 | Yes | 10-15 | Optional | 5-6* | Reduce and then eliminate mist as soon as possible. |
| **DIASCIA** | 50, 72, 84, 105 | No | 6-9 | Yes | 3-4 | Stick 2 cuttings per cell. |
| **ERODIUM** | 32, 50, 72, 84, 105 | Yes | 10-12 | Optional | 5-10* | Avoid saturated media. Reduce mist as soon as possible. Apply preventative fungicide drench if soil temperature is lower than recommended. |
| **ERYSIMUM** | 32, 50, 72, 84, 105 | Yes | 7-9 | Optional | 4-8* | Avoid saturated media. |
| **EUPHORBIA HYPERICIFOLIA** | 50, 72, 84, 105 | Optional | 7-10 | Yes | 3-4 | Ethylene sensitive – stick as soon as possible. Flower buds are common in propagation. Reduce mist as soon as possible. |
| **EUPHORBIA MARTINII** | 32, 50, 72, 84, 105 | No | 7-9 | No | 5-6 | — |
| **EVOLVULUS** | 50, 72, 84, 105 | Optional | 6-10 | Yes | 3-4 | Apply preventative fungicide spray after sticking. Reduce mist as soon as possible. |
| **FELICIA** | 50, 72, 84, 105 | Optional | 5-10 | Yes | 4-5 | Hormone will improve rooting. Remove flower buds. Pinch to improve habit and bulk rooted cutting. |
| **GAILLARDIA** | 50, 72, 84, 105 | No | 5-8 | Optional | 3-4 | Pinch as needed to remove flower buds. |
| **GALIUM** | 32, 50, 72, 84, 105 | No | 6-9 | Optional | 4-8* | — |
| **GAURA** | 32, 50, 72, 84, 105 | No | 6-9 | Yes | 4-9* | Pinch 14-21 days after sticking. |
| **GERANIUM, INTERSPECIFIC** | See Comments | Optional (increases uniformity/ speed of rooting) | 9-13 | No | 3-4 | Stick immediately upon arrival. Geraniums are best rooted in a media in strip form to allow for maximum air flow and avoid foliage overlap. Galleria can be grouped with Ivies for propagation stage. Remove flower buds at transplanting. |

*Average propagation time for perennials includes 3-5 weeks to bulk-up the liner before beginning cold treatment when started in late Summer or early Autumn.

| Crop | Tray Size(s) (cells/tray) | Rooting Hormone | Average Days with Mist | Pinch | Average Propagation Time (weeks) | Comments |
|---|---|---|---|---|---|---|
| **GERANIUM, IVY** | See Comments | Optional (increases uniformity/ speed of rooting) | 9-13 | No | 4-5 | Stick immediately upon arrival. Geraniums are best rooted in a media in strip form to allow for maximum air flow and avoid foliage overlap. Ivy geraniums require 25-30% less mist in propagation compared to zonals. Propagate under separate mist programs. Remove flower buds at transplanting. |
| **GERANIUM, ZONAL** | See Comments | Optional (increases uniformity/ speed of rooting) | 9-12 | No | 3-4 | Stick immediately upon arrival. Geraniums are best rooted in a media in strip form to allow for maximum air flow and avoid foliage overlap. After initial rehydration, careful misting is required to optimize callus and root initiation. Mature leaves should show slight wilting at midday and regain turgor in the late afternoon under ideal mist conditions. Leaf petiole wilting indicates undermisting. Overmisting leads to *Botrytis*. Remove flower buds at transplanting. |
| **HEDERA** | 32, 50, 72, 84, 105 | Optional | 7-10 | Yes | 4-9* | Reduce and then eliminate mist immediately. Pinch to improve branching. |
| **HELICHRYSUM** | 50, 72, 84, 105 | Optional | 7-10 | Optional | 3-4 | Propagate in low-volume mist group. Avoid high feed on foliage. High humidity tents are effective. Pinch as needed to shape plants or hold crop. |
| **HELIOTROPE** | 50, 72, 84, 105 | Optional | 6-9 | No | 3-4 | Stick immediately upon arrival. Apply preventative fungicide spray after sticking. Reduce mist as soon as possible. |
| **HEUCHERA** | 32, 50, 72, 84, 105 | Yes | 6-10 | No | 4-7* | — |
| **IBERIS** | 32, 50, 72, 84, 105 | Yes | 9-14 | Optional | 5-10* | Hormone will improve rooting. Avoid saturated media. Pinch to improve habit and to bulk-up rooted cutting. |
| **IMPATIENS, DOUBLE** | 50, 72, 84, 105 | No | 5-8 | No | 2-3 | Reduce mist as soon as possible to reduce stretch. Transplant on time. |
| **IMPATIENS, EXOTIC** | 50, 72, 84, 105 | No | 5-8 | No | 3 | Avoid saturated media. Reduce mist as soon as possible. To reduce stretch, transplant on time. |
| **IMPATIENS, NEW GUINEA** | 50, 72, 84, 105 | No | 7-8 | No | 3-4 | Apply preventative fungicide spray after sticking. Reduce mist as soon as possible. Scout regularly for *Botrytis*. |
| **IMPATIENS, SPREADING** | 50, 72, 84, 105 | No | 6-8 | No | 3 | Reduce mist as soon as possible to reduce stretch. Transplant on time. |
| **IMPATIENS WALLERIANA** | 50, 72, 84, 105 | No | 5-8 | No | 3 | Avoid saturated media. Reduce mist as soon as possible. To reduce stretch, transplant on time. |
| **IRESINE** | 50, 72, 84, 105 | No | 4-7 | No | 3-4 | Apply Bonzi spray 3-5 ppm on Blazin' Rose between Days 7 and 11 to control early stretch. |
| **LAMIUM** | 32, 50, 72, 84, 105 | No | 6-9 | Yes | 3-4* | Reduce mist as soon as possible to reduce stretch. Transplant on time. |
| **LANTANA** | 50, 72, 84, 105 | Optional | 7-11 | Yes | 4-5 | Stick immediately upon arrival. Apply preventative fungicide spray after sticking. |
| **LAVENDER** | 32, 50, 72, 84, 105 | Optional | 7-10 | Optional | 4-8* | Reduce mist as soon as possible. Apply preventative fungicide drench if soil temperature is lower than recommended. |
| **LEUCANTHEMUM** | 32, 50, 72, 84, 105 | Optional | 7-10 | No | 4-8* | — |
| **LITHODORA** | 32, 50, 72, 84, 105 | Optional | 6-10 | Optional | 4-8* | — |
| **LOBELIA** | 50, 72, 84, 105 | Optional | 6-9 | Optional | 4-5 | Hormone will improve rooting. Pinch 18-21 days after sticking to improve branching. |
| **LYSIMACHIA** | 32, 50, 72, 84, 105 | No | 6-9 | Yes | 3-4 | Reduce mist as soon as possible to reduce stretch. Transplant on time. |
| **NEMESIA** | 50, 72, 84, 105 | No | 6-9 | Yes | 3-4 | Stick 2 cuttings per cell. |
| **OENOTHERA** | 32, 50, 72, 84, 105 | No | 7-11 | Optional | 3-8* | — |
| **OSTEOSPERMUM** | 32, 50, 72, 84, 105 | Yes | 9-12 | Optional | 3-4 | Maintain uniformity in mist and soil temperature. Do not allow cuttings to wilt. Pinch to increase branching. |
| **PENSTEMON** | 32, 50, 72, 84, 105 | No | 6-10 | No | 3-7* | — |
| **PERILLA** | 50, 72, 84, 105 | No | 4-7 | No | 2-3 | Avoid stretch. Reduce mist as soon as possible to reduce stretch. Transplant on time. |
| **PEROVSKIA** | 32, 50, 72, 84, 105 | Optional | 6-10 | Yes | 3-9* | Reduce mist as soon as possible. Apply preventative fungicide spray after sticking. |

| Crop | Tray Size(s) (cells/tray) | Rooting Hormone | Average Days with Mist | Pinch | Average Propagation Time (weeks) | Comments |
|---|---|---|---|---|---|---|
| **PETUNIA** | 50, 72, 84, 105 | No | 6-9 | No | 3-4 | Avoid stretch by moving crop to cooler air temperature in second and third weeks of propagation. Transplant on time. |
| **PHLOX DIVARICATA** | 32, 50, 72, 84, 105 | Optional | 8-12 | Yes | 4-10* | Rooting will occur within 4-5 weeks. Allow plants to bulk up for at least 2-3 more weeks. |
| **PHLOX PANICULATA** | 32, 50, 72, 84, 105 | Optional | 8-12 | No | 6-8* | Rooting will occur within 4-5 weeks. Allow plants to bulk up for at least 2-3 more weeks. |
| **PHLOX SUBULATA** | 32, 50, 72, 84, 105 | Optional | 6-10 | No | 4-10* | Pinch as needed to remove flower buds. |
| **PLECTRANTHUS** | 50, 72, 84, 105 | No | 6-10 | Optional | 3-4 | Apply preventative fungicide spray after sticking. |
| **PURSLANE** | 50, 72, 84, 105 | No | 4-7 | Yes | 2-3 | Pinch as needed to remove flower buds and improve habit. |
| **ROSEMARY** | 50, 72, 84, 105 | Optional | 6-10 | Optional | 3-8* | Reduce mist as soon as possible. Apply preventative fungicide drench if soil temperature is lower than recommended. Propagate in low-volume mist group. |
| **SALVIA GUARANITICA** | 50, 72, 84, 105 | No | 6-9 | Optional | 3-6* | Pinch 14-18 days after sticking to improve branching. |
| **SALVIA LONGISPICATA X FARINACEA** | 32, 50, 72, 84, 105 | No | 5-8 | Optional | 3-6* | Apply B-Nine (2,500 ppm) spray in propagation once between Day 9 and 11. Reapply after transplant if growing under long days. |
| **SALVIA NEMOROSA** | 32, 50, 72, 84, 105 | Yes | 7-11 | No | 3-9* | Reduce mist as soon as possible. Apply preventative fungicide drench. |
| **SCABIOSA** | 32, 50, 72, 84, 105 | Optional | 9-12 | No | 4-8* | Avoid saturated media. Apply preventative fungicide drench if soil temperature is lower than recommended. |
| **SCAEVOLA** | 50, 72, 84, 105 | Optional | 7-10 | Yes | 3-4 | Reduce mist as soon as possible. Maintain warm soil temperature to optimize rooting. |
| **SEDUM** | 50, 72, 84, 105 | No | 6-10 | No | 3-6* | Reduce and then eliminate mist as soon as possible. Allow media to dry as rooted cuttings develop. |
| **SENECIO VITALIS** | 32, 50, 72, 84, 105 | No | 7-10 | No | 4-5 | Reduce mist as soon as possible. Silver foliage, succulent plants require less mist. |
| **SNAPDRAGON** | 50, 72, 84, 105 | No | 7-12 | Yes | 4-5 | Soil temperature is critical. Apply preventative fungicide drench if soil temperature is lower than recommended. Pinch 18-21 days after sticking. Avoid damaging root system when pinching. |
| **STACHYS BYZANTINA** | 32, 50, 72 | No | 4-7 | No | 4-5 | Apply mist sparingly. Apply preventative fungicide. |
| **STROBILANTHES** | 50, 72, 84, 105 | No | 7-12 | Optional | 4-5 | Pinch 18-21 days after sticking to improve branching. Allow root system to develop sufficiently before transplanting. |
| **THUNBERGIA** | 50, 72, 84, 105 | No | 7-12 | Yes | 4-5 | Stick immediately upon arrival. Spray immediately after sticking with a surfactant such as CapSil to help rehydrate unrooted cuttings. Use night mist for 7-8 days as needed. Avoid wilt during first 24-48 hours. |
| **VERBENA** | 50, 72, 84, 105 | No | 6-9 | Yes | 3-4 | Reduce and then eliminate mist as soon as possible. Apply preventative fungicide spray after sticking. |
| **VERONICA** | 32, 50, 72, 84, 105 | No | 6-11 | Optional | 4-8* | Reduce and then eliminate mist as soon as possible. |
| **VINCA MINOR** | 32, 50, 72, 84, 105 | Optional | 7-10 | Yes | 4-9* | Stick 2 cuttings per cell. Reduce and then eliminate mist as soon as possible. Pinch to improve branching. |
| **VIOLA** | 32, 50, 72, 84, 105 | Yes | 6-10 | No | 4-9* | Reduce and then eliminate mist as soon as possible. |

*Average propagation time for perennials includes 3-5 weeks to bulk-up the liner before beginning cold treatment when started in late Summer or early Autumn.

| Crop | Series/Variety | Soil pH | Light Levels (fc) | Temperature Day | Temperature Night | Fertilization (ppm N) | No. of Pinches |
|---|---|---|---|---|---|---|---|
| ALTERNANTHERA | **Grenadine** | 5.4-5.8 | 4,000-8,000 | 65-73°F (18-22°C) | 59-64°F (15-17°C) | 175-225 | 0-2 |
| ANGELONIA | **AngelMist®** | 5.8-6.2 | 6,000-10,000 | 74-85°F (23-29°C) | 62-70°F (16-21°C) | 175-225 | 0-2 |
| ANGELONIA | **Archangel™** | 5.8-6.2 | 6,000-10,000 | 74-85°F (23-29°C) | 62-70°F (16-21°C) | 175-225 | 0-2 |
| ARGYRANTHEMUM | **Madeira™, Butterfly** | 5.8-6.2 | 6,000-9,000 | 65-79°F (18-26°C) | 50-61°F (10-16°C) | 225-300 | 0-1 |
| BACOPA | **Abunda™** | 5.4-5.8 | 4,000-8,000 | 65-76°F (18-24°C) | 56-61°F (13-16°C) | 175-225 | 1-2 |
| BIDENS | **Sunbeam** | 5.8-6.2 | 5,000-9,000 | 59-76°F (15-24°C) | 53-61°F (11-16°C) | 175-225 | 1-3 |
| BIDENS | **Sun Kiss** | 5.8-6.2 | 5,000-9,000 | 59-76°F (15-24°C) | 53-61°F (11-16°C) | 175-225 | 1-3 |
| BRACHYSCOME | **Amethyst, Enduring Blue** | 5.8-6.2 | 5,000-9,000 | 65-73°F (18-22°C) | 56-61°F (13-16°C) | 175-225 | 0-1 |
| BRACTEANTHA (STRAWFLOWER) | **Basket Bon Bon, Dreamtime®** | 5.8-6.2 | 5,000-8,000 | 65-76°F (18-24°C) | 56-61°F (13-16°C) | 175-225 | 0-1 |
| CALIBRACHOA | **Cabaret®, Can-Can®** | 5.4-5.8 | 5,000-8,000 | 71-76°F (21-24°C) | 50-58°F (10-14°C) | 225-300 | 1-2 |
| CHRYSOCEPHALUM APICULATUM | **Silver Fox** | 5.8-6.2 | 6,000-9,000 | 71-73°F (21-22°C) | 59-61°F (15-16°C) | 175-225 | 1 |
| COLEUS | **Aurora™, Lava™ Rose** | 5.8-6.2 | 4,000-10,000 | 74-85°F (23-29°C) | 59-70°F (15-21°C) | 175-225 | 0-2 |
| COLEUS | **Electric Lime®, Henna, Indian Summer, Mint Mocha, Redhead, Sultana, Trusty Rusty, Wasabi, Other** | 5.8-6.2 | 4,000-10,000 | 74-85°F (23-29°C) | 59-70°F (15-21°C) | 175-225 | 0-2 |
| CUPHEA | **Allyson Heather** | 5.4-5.8 | 6,000-12,000 | 71-79°F (21-26°C) | 59-64°F (15-17°C) | 175-225 | 1-2 |
| CUPHEA | **Firecracker** | 5.4-5.8 | 6,000-12,000 | 71-79°F (21-26°C) | 59-64°F (15-17°C) | 175-225 | 1-2 |
| DAHLIA | **Dahlietta®** | 5.8-6.2 | 4,000-6,000 | 65-76°F (18-24°C) | 59-64°F (15-17°C) | 225-300 | 0-1 |
| DAHLIA | **Delicious™** | 5.8-6.2 | 4,000-6,000 | 65-76°F (18-24°C) | 59-64°F (15-17°C) | 225-300 | 0-1 |
| DIASCIA | **Juliet™, Romeo™** | 5.8-6.2 | 5,000-8,000 | 62-76°F (16-24°C) | 35-52°F (1-11°C) | 175-225 | 1-2 |

| Crop Time from Rooted Cutting* | | | | | | |
|---|---|---|---|---|---|---|
| **4 to 5-In. (10 to 13-Cm) Pots** | **6-In. (15-Cm) Pots, Gallons** | **10 to 12-In. (25 to 30-Cm) Pots or Baskets** | **Plant Growth Regulators (S) spray (D) drench** | **Pests** | **Diseases** | **Comments** |
| 1 ppp<br>4-6 weeks | 2-3 ppp<br>6-8 weeks | 4-5 ppp<br>8-10 weeks | Generally not needed. Do not use Cycocel. | Whitefly, spider mites | — | Pinch early in propagation (10-12 days) to increase branching. |
| 1 ppp<br>6-8 weeks | 1-3 ppp<br>7-9 weeks | 3-5 ppp<br>10-12 weeks | Generally not needed. B-Nine(S) 1,500-3,000 ppm and Cycocel 750-1,000 ppm tank mix(S). Avoid Florel use. | Whitefly, caterpillars | Root rot, *Botrytis* | High light will significantly improve plant quality by encouraging branching, earlier flowering and the ideal plant habit growth. Best-suited to mid to late Spring and Summer programs. |
| 1 ppp<br>5-8 weeks | 1-3 ppp<br>7-9 weeks | 3-5 ppp<br>10-12 weeks | Generally not needed. B-Nine(S) 1,500-3,000 ppm and Cycocel 750-1,000 ppm tank mix(S). Avoid Florel use. | Whitefly, caterpillars | Root rot, *Botrytis* | High light will significantly improve plant quality by encouraging branching, earlier flowering and the ideal plant habit growth. Best-suited to mid to late Spring and Summer programs. |
| 1 ppp<br>6-9 weeks | 1-3 ppp<br>7-10 weeks | 3-5 ppp<br>9-12 weeks | B-Nine 1,500-2,000 ppm and Cycocel 750-1,000 ppm tank mix(S) or Bonzi(D) 2-5 ppm to control growth. | Whitefly, leafminer, aphids | Root rot, *Botrytis* | High light and cool temperatures produce high-quality plants. |
| 1-2 ppp<br>5-7 weeks | 2-3 ppp<br>7-10 weeks | 4-5 ppp<br>8-12 weeks | Generally not needed. B-Nine(S) 1,000-1,500 ppm can be used sparingly to tone and control spread. Florel(S) 150-200 ppm will reduce early flowering and increase branching. | Thrips, aphids | Root rot, *Botrytis* | Pinch as needed to shape. Grow Bacopa bright and cool to maximize branching and encourage best possible habit. Test soil regularly for high pH/iron deficiency. Free-branching and trailing Abunda Giant White is ideal for combination pots, baskets and 4 to 6-in. (10 to 15-cm) pots. |
| 1 ppp<br>5-7 weeks | 2-3 ppp<br>6-8 weeks | 4-5 ppp<br>6-9 weeks | B-Nine(S) 2,500 ppm. Also responds to Sumagic(S) 3-5 ppm or Sumagic(D) 0.25 ppm. | Fungus gnats | Root and stem rot | Pinch for better branching and shape. |
| 1 ppp<br>4-6 weeks | 2-3 ppp<br>5-7 weeks | 4-5 ppp<br>10-12 weeks | Generally not needed. Responsive to B-Nine(S) 2,500 ppm. | Fungus gnats | Root and stem rot | Sun Kiss is a compact Bidens. |
| 1 ppp<br>4-6 weeks | 2-3 ppp<br>6-8 weeks | 4-5 ppp<br>12-14 weeks | Generally not needed. Enduring Blue is more naturally compact than Amethyst. | Thrips, whitefly | *Botrytis, Thielaviopsis* | Cool temperatures and high light will produce the best habit. Amethyst is best-suited for larger finish containers (1 gallon and up), while Enduring Blue is compact and suitable for finish containers up to 1 gallon. |
| 1 ppp<br>6-8 weeks | 1-2 ppp<br>7-9 weeks | 3-5 ppp<br>10-12 weeks | Generally not needed. Is responsive to Bonzi(S) 20-30 ppm or Sumagic(S) 10-20 ppm to maintain habit as needed. | Thrips, aphids, whitefly | Root and stem rot | High light and cool temperatures will improve plant quality significantly. |
| 1 ppp<br>6-9 weeks | 1-2 ppp<br>7-11 weeks | 3-5 ppp<br>8-12 weeks | Use B-Nine(S) 2,500-5,000 ppm, Bonzi(D) 3-8 ppm or Florel(S) 300-500 ppm applied 1 time up to 3 times for large baskets to maintain habit as needed. | Thrips, aphids, leafminer | Root rot | Cooler air temperatures and high light will reduce or eliminate any need for plant growth regulators. Maintain pH at 5.2-5.8 to optimize plant health. Crop times will be shortest as days lengthen in Spring. Apply preventative broad-spectrum fungicide drench early (7-10 days after transplant). Avoid saturated media and excessive feed levels. |
| 1 ppp<br>6-7 weeks | 1 ppp<br>9-10 weeks | 3 ppp<br>9-10 weeks | None | — | — | Do not overwater. |
| 1 ppp<br>5-7 weeks | 1-2 ppp<br>6-8 weeks | 3-4 ppp<br>8-11 weeks | Generally not needed. Sumagic(S) 5-10 ppm or a B-Nine 2,500-3,500 ppm and Cycocel 1,000-1,500 tank mix(S) can be used to maintain habit as needed. | Thrips, aphids, whitefly | Root rot | Aurora and Lava Rose Coleus will generally not require any PGR applications during production. Plants should be pinched only as needed since Aurora and Lava Rose are extremely free-branching. |
| 1 ppp<br>5-7 weeks | 1-3 ppp<br>6-8 weeks | 4-5 ppp<br>8-11 weeks | Is responsive to B-Nine(S) 2,500-3,500 ppm and Cycocel(S) 1,000-1,500 ppm tank mix or Sumagic(S) 5-10 ppm. | Whitefly, aphids, thrips | — | Pinch early to shape. Scout plants regularly for whitefly. Avoid crowding at all stages. |
| 1-3 ppp<br>6-8 weeks | 2-5 ppp<br>7-9 weeks | 3-6 ppp<br>10-12 weeks | None | Whitefly, aphids | *Botrytis*, Root rot | Pinch as needed to shape. Fertilize regularly. Crop times will be shortest under high light. |
| 1-2 ppp<br>6-8 weeks | 1-2 ppp<br>7-9 weeks | 3-5 ppp<br>10-12 weeks | None | Whitefly, aphids | *Botrytis*, Oedema, Root rot | Pinch as needed to shape. Keep soil moderately dry and maintain adequate air circulation during finishing to avoid Oedema. Fertilize regularly. Crop times will be shortest under high light. |
| 1 ppp<br>6-8 weeks | 1-2 ppp<br>7-9 weeks | — | Is responsive to B-Nine 2,500-4,000 ppm and Cycocel 1,000-1,500 ppm tank mix(S). | Thrips, leafminer | *Botrytis* | Night-break lighting will reduce likelihood of tuber formation. |
| — | 1-3 ppp<br>8-10 weeks | 3-4 ppp<br>10-12 weeks | Is responsive to B-Nine 2,500-4,000 ppm and Cycocel 1,000-1,500 ppm tank mix(S). | Thrips, leafminer | *Botrytis* | During short days, night-break lighting will reduce likelihood of tuber formation. |
| 1 ppp<br>5-7 weeks | 1-2 ppp<br>7-9 weeks | 3-4 ppp<br>9-11 weeks | Use B-Nine(S) 3,000-5,000 ppm as needed to maintain habit. Florel(S) 200-300 ppm can be used to improve branching. | Thrips, aphids, leafminer | Root rot | If grown cool and with high light levels, Juliet and Romeo Diascia will generally require little, if any, PGRs. |

* ppp=plants per pot

** Perennial varieties that can be grown without cold treatment for Spring and Summer sales.

| Crop | Series/Variety | Soil pH | Light Levels (fc) | Temperature Day | Temperature Night | Fertilization (ppm N) | No. of Pinches |
|---|---|---|---|---|---|---|---|
| ERYSIMUM | **Apricot Twist, Pastel Patchwork** | 5.8-6.2 | 5,000-9,000 | 62-67°F (16-19°C) | 56-61°F (13-19°C) | 175-225 | 0-1 |
| EUPHORBIA HYPERICIFOLIA | **Breathless®** | 5.8-6.2 | 6,000-9,000 | 65-76°F (18-24°C) | 59-67°F (15-19°C) | 175-225 | 1 |
| EVOLVULUS | **Blue Daze** | 5.8-6.2 | 5,000-9,000 | 74-79°F (23-26°C) | 59-64°F (15-17°C) | 175-225 | 1-2 |
| FELICIA | **Pinwheel™ Periwinkle** | 5.8-6.2 | 5,000-9,000 | 65-76°F (18-24°C) | 56-61°F (13-16°C) | 175-225 | 1-2 |
| GAURA LINDHEIMERI** | **Ballerina™, Belleza, Siskiyou Pink** | 5.8-6.2 | 5,000-9,000 | 71-76°F (21-24°C) | 56-61°F (13-16°C) | 175-225 | 1-2 |
| GERANIUM, INTERSPECIFIC | **Galleria®** | 5.8-6.2 | 3,500-5,000 | 65-76°F (18-24°C) | 62-67°F (16-19°C) | 225-300 | 0 |
| GERANIUM, IVY | **Precision™** | 5.8-6.2 | 2,500-4,000 | 65-76°F (18-24°C) | 62-67°F (16-19°C) | 225-300 | 1-2 |
| GERANIUM, ZONAL | **Allure™, Designer** | 6.2-6.6 | 3,500-6,000 | 65-76°F (18-24°C) | 62-67°F (16-19°C) | 225-300 | 0 |
| GERANIUM, ZONAL | **Fantasia®** | 6.2-6.6 | 3,500-6,000 | 65-76°F (18-24°C) | 62-67°F (16-19°C) | 225-300 | 0 |
| GERANIUM, ZONAL | **Presto™** | 6.2-6.6 | 3,500-6,000 | 65-76°F (18-24°C) | 62-67°F (16-19°C) | 225-300 | 0 |
| HELICHRYSUM | **Licorice** | 5.8-6.2 | 4,000-9,000 | 65-76°F (18-24°C) | 50-61°F (10-16°C) | 175-225 | 1-2 |
| HELIOTROPE | **Baby Blue, Marine** | 5.8-6.2 | 5,000-9,000 | 71-76°F (21-24°C) | 50-61°F (10-16°C) | 175-225 | 1-2 |
| IMPATIENS, DOUBLE | **Fiesta™** | 5.8-6.2 | 4,000-6,000 | 68-76°F (20-24°C) | 56-61°F (13-16°C) | 175-225 | 0-1 |
| IMPATIENS, DOUBLE | **Fiesta™ Olé** | 5.8-6.2 | 4,000-6,000 | 68-76°F (20-24°C) | 56-61°F (13-16°C) | 175-225 | 0-1 |
| IMPATIENS, EXOTIC | **Fusion™** | 5.8-6.2 | 4,000-6,000 | 68-76°F (20-24°C) | 56-61°F (13-16°C) | 175-225 | 0-1 |

| Crop Time from Rooted Cutting* | | | | | | |
|---|---|---|---|---|---|---|
| 4 to 5-In. (10 to 13-Cm) Pots | 6-In. (15-Cm) Pots, Gallons | 10 to 12-In. (25 to 30-Cm) Pots or Baskets | Plant Growth Regulators (S) spray (D) drench | Pests | Diseases | Comments |
| 1 ppp 7-10 weeks | 1-2 ppp 8-12 weeks | 3-5 ppp 14-17 weeks | Generally not needed. Growing under high light and cooler temperatures is the most effective way to control growth and improve plant habit. | Whitefly, aphids | Root and stem rot | Erysimum will start to flower from mid-Spring (in milder climates) to early Summer (in northern areas). |
| 1 ppp 5-7 weeks | 1-3 ppp 6-9 weeks | 3-5 ppp 9-11 weeks | B-Nine(S) 2,500 ppm, Cycocel(S) 750 ppm tank mix 7-10 days after transplant. Do not use Florel. | — | — | Sensitive to overwatering. Pinch for a better habit especially in larger containers. |
| 1 ppp 6-8 weeks | 1-2 ppp 8-9 weeks | 3-4 ppp 10-12 weeks | None | Whitefly, aphids | *Pythium, Botrytis* | Pinch as needed to shape. Fertilize regularly. Avoid extremely high humidity or saturated media, both of which will encourage *Botrytis*. |
| 1 ppp 8-10 weeks | 2-3 ppp 9-11 weeks | 4-5 ppp 10-12 weeks | Is responsive to B-Nine(S) 2,500-4,000 ppm and Cycocel 1,000-1,500 ppm tank mix(S). | Thrips | Root and stem rot | Allow soil to dry moderately between waterings. Pinch as needed to build and shape the plant. Crop time can be shortened slightly by increasing average daily temperature. |
| 1 ppp 7-10 weeks | 1-3 ppp 9-12 weeks | 3-4 ppp 11-13 weeks | Use B-Nine(S) 3,000-4,000 ppm, Bonzi(S) 30-50 ppm or Sumagic(S) 15-30 ppm to control final plant height. | Whitefly, aphids | *Botrytis*, Root rot | Pinch Gaura shortly after transplanting to encourage a full habit at flowering. |
| 1 ppp 8-9 weeks | 1-2 ppp 9-10 weeks | 4-5 ppp 11-13 weeks | Cycocel(S) 750-1,500 ppm to control growth; Florel(S) 200-300 ppm to improve branching. | Fungus gnats, thrips, aphids, mites | *Botrytis, Pythium, Xanthomonas* | Keep foliage dry. Provide good air circulation. |
| 1 ppp 8-10 weeks | 1-2 ppp 9-10 weeks | 4-5 ppp 11-13 weeks | Cycocel(S) 750-1,500 ppm to control growth; Florel(S) 200-300 ppm to improve branching. | Fungus gnats, thrips, aphids, mites | *Botrytis*, Oedema, *Pythium, Xanthomonas* | Avoid drastic swings in soil moisture to reduce Oedema. |
| 1 ppp 8-9 weeks | 1-2 ppp 9-10 weeks | 4-5 ppp 11-13 weeks | Cycocel(S) 750-1,000 ppm to control growth; Florel(S) 200-300 ppm to improve branching. | Fungus gnats, thrips, aphids, mites | *Botrytis, Pythium, Xanthomonas* | Keep foliage dry. Provide good air circulation. |
| 1 ppp 8-9 weeks | 1-2 ppp 9-10 weeks | 4-5 ppp 11-13 weeks | Cycocel(S) 750-1,000 ppm to control growth; Florel(S) 200-300 ppm to improve branching. | Fungus gnats, thrips, aphids, mites | *Botrytis, Pythium, Xanthomonas* | Fantasia Geraniums usually do not require PGRs to produce high-quality plants. |
| 1 ppp 8-9 weeks | 1-2 ppp 9-10 weeks | 4-5 ppp 11-13 weeks | Generally not needed. Cycocel(S) 750-1,000 ppm to control growth; Florel(S) 200-300 ppm to improve branching. | Fungus gnats, thrips, aphids, mites | *Botrytis, Pythium, Xanthomonas* | Presto Geraniums usually do not require PGRs to produce high-quality plants. They are naturally compact, well-branched and early to flower. |
| 1 ppp 5-7 weeks | 2-3 ppp 7-9 weeks | 3-5 ppp 9-11 weeks | None | Fungus gnats, whitefly | Root rot | Avoid saturated media at any time. Pinch regularly to shape. |
| 1 ppp 6-7 weeks | 1-2 ppp 8-9 weeks | 3-5 ppp 10-12 weeks | Use B-Nine 1,500-3,000 ppm and Cycocel 750-1,000 ppm tank mix(S). Baby Blue will probably not need PGRs as it is very compact. | Whitefly, mites, aphids | Root rot | Cool temperatures and high light will reduce or eliminate any need for plant growth regulators. |
| 1 ppp 6-9 weeks | 1-2 ppp 7-9 weeks | 4-5 ppp 10-12 weeks | Bonzi(S) 5-15 ppm can be used to control habit early; Bonzi(D) 0.5-1.0 ppm applied as crop matures will control final height but not delay flowering or reduce flower size. Florel(S) 100-200 ppm can be used to improve branching but will usually not be needed. | Leafminer, thrips | Impatiens Necrotic Spot Virus, *Botrytis, Pythium* | Start feeding immediately after transplanting. Avoid water stress in all stages of crop. Avoid cold stress (night temperatures below 65°F/18°C). Maintain EC above 1.0 (SME). Use early PGR applications to achieve ideal finished plants. |
| 1 ppp 5-7 weeks | 1-2 ppp 6-8 weeks | 4-5 ppp 9-12 weeks | Bonzi(S) 5-10 ppm can be used to control habit early; Bonzi(D) 0.5-1.0 ppm applied as crop matures will control final height but not delay flowering or reduce flower size. Florel(S) 100-200 ppm can be used to improve branching but will usually not be needed. | Leafminer, thrips | Impatiens Necrotic Spot Virus, *Botrytis, Pythium* | Start feeding immediately after transplanting. Avoid water stress in all stages of crop. Avoid cold stress (night temperatures below 65°F/18°C). Maintain EC above 1.0 (SME). Use early PGR applications to achieve ideal finished plants. Fiesta Olé Double Impatiens require less PGRs than Fiesta Double Impatiens. |
| 1 ppp 6-8 weeks | 1-2 ppp 7-9 weeks | 3-5 ppp 10-12 weeks | Bonzi(S) 5-15 ppm is effective for height control. Florel(S) 100-300 ppm can be used to improve branching but will not usually be needed. | Aphids, thrips | Impatiens Necrotic Spot Virus, *Botrytis, Pythium* | Start feeding immediately after transplanting. Avoid water stress in all stages of crop. Avoid cold stress (night temperatures below 65°F/18°C). Maintain EC above 1.0 (SME). Use early PGR application to achieve ideal finished plants. A light Bonzi drench when plant is three-quarters of finish size will promote flowering above the foliage. |

* ppp=plants per pot

** Perennial varieties that can be grown without cold treatment for Spring and Summer sales.

| Crop | Series/Variety | Soil pH | Light Levels (fc) | Temperature Day | Temperature Night | Fertilization (ppm N) | No. of Pinches |
|---|---|---|---|---|---|---|---|
| IMPATIENS, NEW GUINEA | **Celebration** | 5.8-6.2 | 4,000-7,000 | 68-76°F (20-24°C) | 59-64°F (15-17°C) | 175-225 | 0 |
| IMPATIENS, NEW GUINEA | **Celebrette** | 5.8-6.2 | 4,000-7,000 | 68-76°F (20-24°C) | 59-64°F (15-17°C) | 175-225 | 0 |
| IMPATIENS, SPREADING | **Fanfare®** | 5.8-6.2 | 4,000-9,000 | 68-79°F (20-26°C) | 59-64°F (15-17°C) | 175-225 | 0 |
| IMPATIENS WALLERIANA | **Patchwork™** | 5.8-6.2 | 4,000-6,000 | 68-76°F (20-24°C) | 56-61°F (13-16°C) | 175-225 | 0-1 |
| IRESINE | **Blazin' Lime, Blazin' Rose** | 5.8-6.2 | 4,000-7,000 | 71-79°F (21-26°C) | 62-67°F (16-19°C) | 175-225 | 1-2 |
| LAMIUM | **Jade Frost** | 5.8-6.2 | 4,000-8,000 | 71-79°F (21-26°C) | 59-64°F (15-17°C) | 175-225 | 1-2 |
| LANTANA | **Landmark™, Lucky™, Piñata, Dallas Red, New Gold** | 5.8-6.2 | 5,000-10,000 | 74-85°F (23-29°C) | 62-67°F (16-19°C) | 225-300 | 1-3 |
| LAVENDER** | **Anouk, Bella®, Silver Anouk** | 5.8-6.2 | 5,000-8,000 | 56-76°F (13-24°C) | 56-64°F (13-17°C) | 100-175 | 0-1 |
| LOBELIA | **Periwinkle Blue** | 5.8-6.2 | 5,000-8,000 | 71-79°F (21-26°C) | 56-64°F (13-17°C) | 175-225 | 1-2 |
| LOBELIA | **Waterfall™** | 5.8-6.2 | 5,000-8,000 | 71-76°F (21-24°C) | 56-61°F (13-16°C) | 175-225 | 1-2 |
| LYSIMACHIA NUMMULARIA** | **Goldilocks** | 5.8-6.2 | 4,000-8,000 | 71-79°F (21-26°C) | 59-64°F (15-17°C) | 175-225 | 1-2 |
| LYSIMACHIA PUNCTATA** | **Golden Alexander** | 5.8-6.2 | 4,000-8,000 | 71-79°F (21-26°C) | 59-64°F (15-17°C) | 175-225 | 1-2 |
| NEMESIA | **Aromatica™** | 5.8-6.2 | 4,000-7,000 | 65-76°F (18-24°C) | 35-52°F (1-11°C) | 175-225 | 1-2 |
| OSTEOSPERMUM | **Serenity™** | 5.8-6.2 | 5,000-9,000 | 59-76°F (15-24°C) | 44-55°F (6-12°C) | 225-300 | 1 |

| Crop Time from Rooted Cutting* | | | | | | |
|---|---|---|---|---|---|---|
| **4 to 5-In. (10 to 13-Cm) Pots** | **6-In. (15-Cm) Pots, Gallons** | **10 to 12-In. (25 to 30-Cm) Pots or Baskets** | **Plant Growth Regulators (S) spray (D) drench** | **Pests** | **Diseases** | **Comments** |
| 1 ppp<br>7-9 weeks | 1-2 ppp<br>9-10 weeks | 3-5 ppp<br>10-13 weeks | Bonzi(S) 2-15 ppm can be used to control habit early; Bonzi(D) 0.25-2.0 ppm applied as crop matures will control final height but not delay flowering or reduce flower size. Florel(S) 100-200 ppm can be used to improve branching but will usually not be needed. | Thrips, aphids, mites | Impatiens Necrotic Spot Virus, *Botrytis, Pythium* | Maintain 68°F (20°C) average daily temperature to optimize bloom size and reduce time to flower. Cooler temperatures will extend crop time. Grow crop somewhat dry to help control growth and hasten flowering. Avoid excess micro-nutrients in the soil. With good cultural practices and environmental conditions, no PGRs will be needed. |
| 1 ppp<br>6-8 weeks | 1-2 ppp<br>7-9 weeks | 4-5 ppp<br>8-11 weeks | Bonzi(S) 2-10 ppm can be used to control habit early; Bonzi(D) 0.25-1.0 ppm applied as crop matures will control final height but not delay flowering or reduce flower size. Florel(S) 100-200 ppm can be used to improve branching but will usually not be needed. | Thrips, aphids, mites | Impatiens Necrotic Spot Virus, *Botrytis, Pythium* | Maintain 68°F (20°C) average daily temperature to optimize bloom size and reduce time to flower. Cooler temperatures will extend crop time. Grow crop somewhat dry to help control growth and hasten flowering. Avoid excess micro-nutrients in the soil. With good cultural practices and environmental conditions, no PGRs will be needed. |
| 1 ppp<br>6-8 weeks | 1 ppp<br>8-10 weeks | 3-4 ppp<br>10-13 weeks | Bonzi(S) 5-15 ppm can be used to control habit early in finish production; Bonzi(D) 0.25-0.50 ppm applied as crop matures will control final height but not delay flowering or reduce flower size. B-Nine in propagation (1,500-2,000 ppm) is effective in reducing early and unwanted stretch. | Thrips, aphids, mites | Impatiens Necrotic Spot Virus, *Botrytis, Pythium* | Grow crop moderately dry to help control early growth and hasten flowering. Maintain feed in low to moderate range (New Guinea feed program). |
| 1 ppp<br>6-8 weeks | 1-2 ppp<br>7-9 weeks | 3-5 ppp<br>10-12 weeks | Bonzi(S) 5-15 ppm is effective for height control. Florel(S) 100-300 ppm can be used to improve branching but will not usually be needed. | Aphids, thrips | Impatiens Necrotic Spot Virus, *Botrytis, Pythium* | Start feeding immediately after transplanting. Avoid water stress in all stages of crop. Avoid cold stress (night temperatures below 65°F/18°C). Maintain EC above 1.0 (SME). Use early PGR application to achieve ideal finished plants. A light Bonzi drench when plant is three-quarters of finish size will promote flowering above the foliage. |
| 1 ppp<br>7-9 weeks | 2-3 ppp<br>8-10 weeks | 4-5 ppp<br>10-13 weeks | Generally not needed. Responsive to Bonzi. | Whitefly | — | Pinch regularly to encourage branching and improve habit. |
| 1 ppp<br>4-5 weeks | 2-3 ppp<br>5-8 weeks | 3-5 ppp<br>8-10 weeks | Generally not needed. Soil moisture and cool temperatures are the most effective way to control growth. | Aphids, whitefly | Root and stem rot | Pinch plants to encourage branching and improve habit. |
| 1-2 ppp<br>6-7 weeks | 1-3 ppp<br>7-8 weeks | 3-6 ppp<br>10-12 weeks | Lantana is responsive to a B-Nine 2,500-5,000 ppm and Cycocel 1,000-1,500 ppm tank mix(S) as well as Florel(S) 300-400 ppm, Bonzi(S) 20-40 ppm and Sumagic(S) 10-20 ppm. | Whitefly, leafminer, aphids | Root rot | Allow plants to dry regularly between waterings. Pinch as needed to shape. Feeding at recommended levels will promote vigorous plants that will continue to actively grow and flower. Lucky varieties are naturally compact and free-branching, while Landmark varieties are more vigorous. |
| 1 ppp<br>7-9 weeks | 1-3 ppp<br>8-10 weeks | 3-5 ppp<br>9-11 weeks | Generally not needed. High light and cool temperatures are the most effective way to control growth. | Whitefly, aphids | *Botrytis,* Root rot | Plants grown under long days (greater than 14 hours) will generally flower more uniformly. |
| 1 ppp<br>8-10 weeks | 2 ppp<br>9-11 weeks | 4-5 ppp<br>10-13 weeks | Generally not needed. | Spider mites, thrips | *Botrytis* | Excellent heat tolerance. Pinch as needed to shape and improve plant habit. |
| 1 ppp<br>9-10 weeks | 2-3 ppp<br>10-11 weeks | 4-5 ppp<br>10-13 weeks | Generally not needed. | Thrips | *Botrytis* | Azure Mist and Blue have a mounded, trailing habit, while Lavender has a trailing habit. Ideal for Spring and Summer throughout North America. Will flower in Autumn, Winter and early Spring in the Sunbelt. |
| 1 ppp<br>4-5 weeks | 2-3 ppp<br>5-8 weeks | 3-5 ppp<br>8-10 weeks | Generally not needed. Pinching is best for shaping the plant. | — | — | Lysimachia Goldilocks is grown primarily for its foliage. |
| 1 ppp<br>4-5 weeks | 2-3 ppp<br>5-8 weeks | 3-5 ppp<br>8-10 weeks | Generally not needed. Soil moisture and cool temperatures are the most effective way to control growth. | Aphids, whitefly | Root and stem rot | Pinch plants to encourage branching and improve habit. |
| 1 ppp<br>5-7 weeks | 2-3 ppp<br>7-9 weeks | 3-4 ppp<br>9-11 weeks | Grow cool and bright to improve habit. Nemesia is responsive to B-Nine(S) 2,500-4,000 ppm, Sumagic(S) 20-30 ppm, and Florel(S) 200-300 ppm. | Thrips, aphids, leafminer | Root rot | If grown cool and with high light levels, Aromatica will generally require little, if any, PGRs. Avoid water-logged media. |
| 1 ppp<br>10-13 weeks | 2-3 ppp<br>11-14 weeks | 3-4 ppp<br>11-15 weeks | Is responsive to B-Nine(S) 2,500-4,000 ppm alone or as a tank mix(S) with Cycocel 750-1,000 ppm. Bonzi(S) 15-30 ppm is also effective. | Aphids, whitefly, thrips | Root and stem rot, *Botrytis* | After transplanting, allow plants to become established for 1-2 weeks at 60-65°F (15-18°C). Once plants are well established, pinch and begin growing at recommended cool temperatures. After 4-6 weeks of cool conditions, plants can be forced in 6-8 weeks. |

* ppp=plants per pot

** Perennial varieties that can be grown without cold treatment for Spring and Summer sales.

| Crop | Series/Variety | Soil pH | Light Levels (fc) | Temperature Day | Temperature Night | Fertilization (ppm N) | No. of Pinches |
|---|---|---|---|---|---|---|---|
| OSTEOSPERMUM | **Voltage™ Yellow** | 5.8-6.2 | 5,000-9,000 | 59-76°F (15-24°C) | 44-55°F (6-12°C) | 225-300 | 0-1 |
| PERILLA | **Magilla® Purple** | 5.8-6.2 | 4,000-10,000 | 74-85°F (23-29°C) | 59-70°F (15-21°C) | 175-225 | 0-1 |
| PETUNIA | **Double Wave®, Rhythm & Blues, Ruffle™, Suncatcher™** | 5.8-6.2 | 5,000-8,000 | 59-76°F (15-24°C) | 53-61°F (11-16°C) | 225-300 | 0-1 |
| PETUNIA | **Black Velvet, Phantom, Pinstripe, Sun Spun®** | 5.8-6.2 | 5,000-8,000 | 59-76°F (15-24°C) | 53-61°F (11-16°C) | 225-300 | 0-1 |
| PLECTRANTHUS | **Mona Lavender** | 5.8-6.2 | 4,000-7,000 | 74-79°F (23-26°C) | 59-64°F (15-17°C) | 175-225 | 0-1 |
| PLECTRANTHUS | **Nico, Nicodemus, Nicolleta, Variegata** | 5.8-6.2 | 5,000-8,000 | 71-79°F (21-26°C) | 56-61°F (13-16°C) | 175-225 | 1-2 |
| PURSLANE | **Fairytales, Río™** | 5.8-6.2 | 5,000-10,000 | 71-79°F (21-26°C) | 62-67°F (16-19°C) | 225-300 | 1-2 |
| ROSEMARY OFFICINALIS | **Barbeque, Prostratus** | 5.8-6.2 | 6,000-9,000 | 67-75°F (19-24°C) | 62-68°F (17-20°C) | 200 | 1-2 |
| SALVIA GUARANITICA | **Black & Blue** | 5.4-5.8 | 6,000-9,000 | 71-79°F (21-26°C) | 59-64°F (15-17°C) | 175-225 | 1-2 |
| SALVIA LONGISPICATA X FARINACEA | **Mystic Spires Blue** | 5.8-6.2 | 6,000-10,000 | 71-79°F (21-26°C) | 62-67°F (16-19°C) | 175-225 | 1-2 |
| SCAEVOLA | **Blue Fan, Blue Print, Blue Ribbon** | 5.8-6.2 | 5,000-9,000 | 74-79°F (23-26°C) | 59-64°F (15-17°C) | 175-225 | 1-2 |
| SEDUM | **Angelina, Blue Spruce, Coral Reef, Salsa Verde, Sea Urchin, Tricolor** | 5.8-6.2 | 5,000-9,000 | 74-79°F (23-26°C) | 59-64°F (15-17°C) | 100-175 | 1-2 |
| SENECIO VITALIS | **Blue Chalk** | 5.8-6.2 | 5,000-9,000 | 74-79°F (23-26°C) | 59-64°F (15-17°C) | 100-175 | 1-2 |
| SNAPDRAGON, TRAILING | **Luminaire™** | 5.4-5.8 | 4,000-7,000 | 65-76°F (18-24°C) | 50-55°F (10-12°C) | 175-225 | 1-3 |
| STROBILANTHES | **Persian Shield** | 5.8-6.2 | 3,000-6,000 | 74-79°F (23-26°C) | 59-64°F (15-17°C) | 175-225 | 1-3 |
| THUNBERGIA | **Sunny™** | 5.8-6.2 | 5,000-8,000 | 71-79°F (21-26°C) | 59-64°F (15-17°C) | 175-225 | 1-3 |
| VERBENA | **Aztec®, Aztec® Magic, Wildfire™, Homestead Purple**** | 5.8-6.2 | 5,000-8,000 | 71-79°F (21-26°C) | 62-64°F (16-17°C) | 225-300 | 1-2 |

| Crop Time from Rooted Cutting* | | | | | | |
|---|---|---|---|---|---|---|
| 4 to 5-In. (10 to 13-Cm) Pots | 6-In. (15-Cm) Pots, Gallons | 10 to 12-In. (25 to 30-Cm) Pots or Baskets | Plant Growth Regulators (S) spray (D) drench | Pests | Diseases | Comments |
| 1 ppp 8-11 weeks | 1-2 ppp 8-11 weeks | 3-5 ppp 8-11 weeks | Is responsive to B-Nine(S) 2,500-4,000 ppm alone or as a tank mix(S) with Cycocel 750-1,000 ppm. Bonzi(S) 15-30 ppm is also effective. | Aphids, whitefly, thrips | Root and stem rot, *Botrytis* | After transplanting, allow plants to become established for 1-2 weeks at 60-65°F (15-18°C). Once plants are well established, pinch and begin growing at recommended cool temperatures. Pinch optional. After 4-6 weeks of cool conditions, plants can be forced in 6-8 weeks. |
| 1 ppp 5-7 weeks | 1-2 ppp 6-8 weeks | 3-4 ppp 8-11 weeks | B-Nine(S) 2,000-4,000 ppm, applied 1-3 times, can be used to control habit. | Thrips, aphids, whitefly | Root rot | Plants should be pinched as needed to control habit. Crop times will be shorter under long days or warmer temperatures. |
| 1 ppp 6-8 weeks | 2-3 ppp 7-9 weeks | 3-5 ppp 9-12 weeks | B-Nine(S) 1,500-2,500 ppm, applied 2-4 times, can be used to control habit early; Bonzi(D) 0.25-1.0 ppm applied as crop matures will control final height but not delay flowering or reduce flower size. | Whitefly, thrips, leafminer | *Botrytis,* Root rot, Tobacco Mosaic Virus | Cool temperatures and high light will reduce or eliminate any need for PGRs. Monitor pH regularly for high pH and possible iron deficiency. Flowering will be best as days lengthen in late Spring and Summer. Daylength of more than 14 hours will hasten flowering. |
| 1 ppp 5-7 weeks | 2-3 ppp 6-8 weeks | 3-5 ppp 8-11 weeks | B-Nine(S) 1,500-2,500 ppm, applied 2-4 times, can be used to control habit early. Bonzi(D) 0.25-1.0 ppm applied as crop matures will control final height but not delay flowering or reduce flower size. B-Nine applications late in the crop time can cause instability in flower color. | Whitefly, thrips, leafminer | *Botrytis,* Root rot, Tobacco Mosaic Virus | Cool temperatures and high light will reduce or eliminate any need for PGRs. Monitor pH regularly for high pH and possible iron deficiency. Flowering will be best as days lengthen in late Spring and Summer. Daylength of more than 14 hours will hasten flowering. |
| 1 ppp 6-8 weeks | 1-2 ppp 7-9 weeks | 3-5 ppp 9-12 weeks | B-Nine 1,500-2,500 ppm and Cycocel 750-1,000 ppm tank mix(S) or Bonzi(S) 5-20 ppm applied as needed is effective. | Whitefly, worms | Root rot | Mona Lavender requires a short-day treatment to flower. Natural-day crops can be finished in Southern climates for January to March sales. Spring, Summer and Fall crops can be achieved using black cloth/short days in all regions. |
| 1 ppp 6-8 weeks | 1-3 ppp 7-10 weeks | 3-5 ppp 9-12 weeks | Generally not needed. | Whitefly | *Botrytis, Pythium, Rhizoctonia* | Regularly allow the media to dry between waterings. Pinch regularly to improve habit. |
| 1-2 ppp 5-6 weeks | 2-3 ppp 6-8 weeks | 3-5 ppp 9-12 weeks | Generally not needed. | Whitefly | Root rot | Regularly allow the media to dry moderately between waterings, especially in cool periods. Regular pinching and constant feeding will improve habit and flowering. |
| 1 ppp 6-8 weeks | 2-3 ppp 7-9 weeks | 3-5 ppp 8-10 weeks | Generally not needed. | Whitefly, mites | Root and stem rot, *Botrytis* | Avoid saturated media at any time. Under some conditions, a broad-spectrum preventative drench may be needed. |
| 1 ppp 7-9 weeks | 1-2 ppp 8-10 weeks | 2-3 ppp 10-12 weeks | A B-Nine 2,000-3,500 ppm and Cycocel 1,000-1,500 ppm tank mix(S) will help control height. | Whitefly, fungus gnats, thrips | *Botrytis, Pythium, Rhizoctonia* | Regularly allow the media to dry between waterings, particularly during cool periods. Salvia Black & Blue prefers warm conditions to ensure early flowering. |
| 1 ppp 4-8 weeks | 2-3 ppp 6-10 weeks | 4-5 ppp 8-12 weeks | Responsive to B-Nine 2,500-3,000 ppm. Increase rates as days lengthen in late Spring and Summer. | Whitefly | — | Regularly allow the media to dry moderately between waterings, especially in cool periods. Proper pinching and moderate feeding will improve habit and flowering. |
| 1 ppp 5-7 weeks | 1-2 ppp 7-8 weeks | 3-5 ppp 10-12 weeks | Generally not needed. Bonzi(D) 1-3 ppm or Bonzi(S) 20-40 ppm will control growth. | Whitefly | *Pythium, Rhizoctonia* | Scaevola prefers a well-drained soil. Allow the media to dry between waterings. Night temperatures lower than recommended will significantly slow the crop and lead to problems with root rot. |
| 1 ppp 5-7 weeks | 1-2 ppp 7-8 weeks | 3-5 ppp 10-12 weeks | Generally not needed. | Spider mites | Root rot | Succulent plant with low water requirements. Allow soil to dry between waterings. |
| 1 ppp 5-7 weeks | 1-2 ppp 7-8 weeks | 3-5 ppp 10-12 weeks | Generally not needed. | Spider mites | Root rot | Succulent plants with low water requirements. Allow soil to dry between waterings. |
| 1 ppp 6-8 weeks | 2-3 ppp 7-10 weeks | 4-5 ppp 9-12 weeks | Bonzi(S) 30-60 ppm and Sumagic(S) 20-45 ppm can be used to control growth if needed. | Thrips, mites, fungus gnats | *Botrytis, Pythium, Rhizoctonia, Thielaviopsis* | Cool temperatures and high light will reduce or eliminate any need for PGRs. Monitor pH regularly for possible iron deficiency. Allow soil to dry between waterings. |
| — | 1-2 ppp 8-10 weeks | 3-5 ppp 10-13 weeks | Generally not needed. | Whitefly | Root rot | Moderate light levels produce more colorful foliage. Pinch early to shape. Feed regularly to maintain growth. |
| 1 ppp 6-8 weeks | 1-2 ppp 7-9 weeks | 4-5 ppp 10-12 weeks | Generally not needed. | Mites, whitefly, thrips | *Botrytis* | Thunbergia is a warm-season crop that prefers night temperatures above 60°F (15°C). Pinch regularly to shape. |
| 1 ppp 5-7 weeks | 1-3 ppp 7-8 weeks | 4-5 ppp 10-13 weeks | Responsive to a B-Nine 2,500-3,500 ppm/Cycocel 750-1,000 ppm tank mix(S) and Florel(S) 250-300 ppm to control growth and improve plant habit. | Whitefly, leafminer, aphids | Root rot | Regularly allow plants to dry between waterings. Pinch as needed to shape. Wildfire varieties may require more PGR use under normal conditions. |

* ppp=plants per pot

** Perennial varieties that can be grown without cold treatment for Spring and Summer sales.

| | | COLD TREATMENT | | | | FORCING/FINISHING | |
|---|---|---|---|---|---|---|---|
| **Variety** | **Soil pH** | **Plant Maturity** | **Temperature** | **Duration** | **Benefit(s)** | **Fertilization (ppm N)** | **Light Levels (fc)** |
| **ACHILLEA HYBRIDA** **Moonshine** **ACHILLEA MILLEFOLIUM** **Laura, Little Susie, Peggy Sue, Pretty Woman** | 5.8-6.2 | Cold treatment is beneficial, but not required for flowering. Plants should be bulked under natural short days for a 4-8 week period. Mature, bulked-up plants will respond more favorably to cold treatment. | 35-41°F (2-5°C) | 6-9 weeks | Earlier flowering | 150-200 | 4,000-7,000 |
| **AJUGA REPTANS** **Bronze Beauty, Burgundy Glow, Evening Glow, Golden Glow** **AJUGA TENORII** **Chocolate Chip** | 6.0-6.5 | Cold treatment is not required. Cold treatment will optimize flowering but is not required for foliage. | 35-41°F (2-5°C) | 6-9 weeks | Increased flowering | 175-225 | 3,000-5,000 |
| **ARTEMISIA ARBORESCENS** **Powis Castle** | 5.8-6.2 | Cold treatment is not required. | — | — | — | 175-225 | 5,000-9,000 |
| **ARTEMISIA SCHMIDTIANA** **Silver Mound** | 5.5-6.0 | Cold treatment is not required. | — | — | — | 175-225 | 5,000-9,000 |
| **ASTER DUMOSUS** **Purple Dome** | 5.4-5.8 | Cold treatment is beneficial. Plants should be bulked under natural long days prior to cooling. | 35-41°F (2-5°C) | 6-15 weeks | Increases flowering percentage and number of flowers | 175-225 | 5,000-9,000 |
| **BOLTONIA ASTEROIDES VAR. LATISQUAMA** **Jim Crockett** | 5.6-6.3 | Cold treatment beneficial, but not required for flowering. Plants should be bulked under natural short days for a 4-8 week period. Mature, bulked-up plants will respond more favorably to cold treatment. | 35-41°F (2-5°C) | 6-15 weeks | Increases flowering percentage and number of flowers | 175-225 | 5,000-8,000 |
| **CARYOPTERIS X CLANODENSIS** **Longwood Blue** | 5.8-6.2 | Cold treatment beneficial, but not required for flowering. Plants should be bulked under natural short days for a 4-8 week period. Mature, bulked-up plants will respond more favorably to cold treatment. | 35-41°F (2-5°C) | 6-15 weeks | Increased number of flowers; improved habit | 175-225 | 5,000-8,000 |
| **CERATOSTIGMA PLUMBAGINOIDES** | 5.8-6.5 | Cold treatment is not required. | — | — | — | 200-250 | 4,000-8,000 |
| **COREOPSIS AURICULATA** **Nana** | 5.8-6.2 | Cold treatment will optimize flowering. | 35-41°F (2-5°C) | 6-15 weeks | Improved flowering | 150-200 | 5,000-8,000 |
| **COREOPSIS GRANDIFLORA** **Sunny Day** | 5.4-5.8 | Cold treatment beneficial, but not required for flowering. Plants should be bulked under natural short days for a 4-8 week period. Mature, bulked-up plants will respond more favorably to cold treatment. | 35-41°F (2-5°C) | 6-15 weeks | Increased number of flowers; earlier flowering | 175-225 | 6,000-10,000 |
| **COREOPSIS HYBRIDA** **Jethro Tull** | 5.8-6.2 | Cold treatment is not required. | — | — | — | 175-225 | 6,000-10,000 |
| **COREOPSIS ROSEA** **American Dream** **COREOPSIS VERTICILLATA** **Moonbeam, Tweety, Zagreb** | 5.4-5.8 | Cold treatment beneficial, but not required for flowering. Plants should be bulked under natural short days for a 4-8 week period. Mature, bulked-up plants will respond more favorably to cold treatment. | 35-41°F (2-5°C) | 6-15 weeks | Increased number of flowers; earlier flowering | 175-225 | 6,000-9,000 |
| **DELOSPERMA** **D. cooperi** **DELOSPERMA FLORIBUNDUM** **Sequins** | 5.5-6.2 | Cold treatment is not required. | — | — | — | 175-225 | 6,000-9,000 |
| **ERODIUM CHAMAEDRYOIDES** **Charm** | 5.6-6.3 | Cold treatment beneficial, but not required for flowering. Plants should be bulked under natural short days for a 4-8 week period. Mature, bulked-up plants will respond more favorably to cold treatment. | 35-41°F (2-5°C) | 6-15 weeks | More uniform flowering; increase in number of flowers | 150-200 | 6,000-10,000 |
| **ERYSIMUM LINIFOLIUM** **Bowles Mauve, Fragrant Sunshine** | 5.5-6.0 | Cold treatment is required for best Spring flowering. Bulk plants prior to cold treatment. | 45-55°F (7-13°C) | 4-6 weeks | Improved flowering | 175-225 | 5,000-9,000 |
| **EUPHORBIA MARTINII** **Tiny Tim** | 5.8-6.2 | Cold treatment required for flowering. Plants should be bulked under natural short days for a 4-8 week period. Mature, bulked-up plants will respond more favorably to cold treatment. | 35-41°F (2-5°C) | 10-15 weeks | Required for flowering | 150-200 | 5,000-9,000 |

| Daylength | Average Daily Temperature | Crop Time in Weeks from Rooted Cutting | No. of Pinches | Plant Growth Regulators (S) spray (D) drench | Pests | Diseases |
|---|---|---|---|---|---|---|
| Plants grown under long days (greater than 13.5-hour daylengths), occurring either naturally or by night-break lighting, will flower more rapidly and uniformly. | 56-61°F (13-16°C) | Quart: 5-9<br>Gallon: 11-13 | 0 | B-Nine(S) 2,000-4,000 ppm, applied 1-3 times as needed. | Aphids, whitefly | *Botrytis,* Root rot |
| Ajuga is grown primarily for foliage and is not dependent on daylength. | 58-68°F (14-20°C) | Quart: 5-9<br>Gallon: 11-13 | 0-1 | Generally not needed. | Aphids, whitefly | Root and stem rot |
| Artemisia is grown for its silver, finely-textured foliage and is not dependent on daylength. | 68-76°F (20-24°C) | Quart: 4-8<br>Gallon: 8-10 | 1 | Responds to Bonzi(S) 5-40 ppm. | Aphids, whitefly | Root and stem rot |
| Artemisia is grown for its silver, finely-textured foliage and is not dependent on daylength. | 68-76°F (20-24°C) | Quart: 5-9<br>Gallon: 10-12 | 1-2 | Responds to Bonzi(S) 40-50 ppm. | Aphids, whitefly | Root and stem rot |
| Asters will flower earlier and more uniformly under short days (9 hours). | 59-67°F (15-19°C) | Quart: 7-9<br>Gallon: 8-10 | 1-2 | If grown under long days after cold, a growth regulator will likely be needed. Responsive to B-Nine(S) 2,500-4,000 ppm and Sumagic(S) 10-50 ppm. | Whitefly, aphids | Powdery mildew, Root and stem rot |
| Boltonia Jim Crockett will bloom mid to late Summer through Autumn. | 65-76°F (18-24°C) | Quart: 5-7<br>Gallon: 7-10 | 1-2 | Is responsive to Bonzi (D) 10-20 ppm, B-Nine 2,500-4,000 ppm and Cycocel 1,000-1,500 ppm tank mix(S). | Aphids, whitefly | Powdery mildew, Root rot, Rust |
| Plants forced under long days will flower more uniformly and faster. | 65-73°F (18-22°C) | Quart: 7-9<br>Gallon: 8-10 | 1-2 | Generally not needed. | Whitefly, fungus gnats | Root rot |
| Ceratostigma will bloom mid to late Summer through Autumn. | 62-76°F (16-24°C) | Quart: 7-10<br>Gallon: 11-13 | 1-2 | B-Nine(S) 1,500-2,500 ppm; Bonzi(S) 15-30 ppm. | Aphids, thrips | *Botrytis,* Root and stem rot |
| Coreopsis Nana is daylength neutral but does require bulking prior to flowering. | 65-70°F (19-21°C) | Quart 6-8<br>Gallon: 8-10 | 0-1 | Generally not needed. | — | — |
| Coreopsis Sunny Day will bloom naturally as days lengthen and temperatures begin to rise in late Spring. | 62-67°F (16-19°C) | Quart: 7-9<br>Gallon: 8-10 | 0 | Generally not needed. | Whitefly | — |
| Coreopsis Jethro Tull is an obligate long-day plant and requires daylengths longer than 14 hour to flower. | 64-68°F (18-20°C) | Quart: 8-9<br>Gallon: 9-11 | 0-1 | Is responsive to B-Nine(S) 2,500 ppm; Bonzi or Sumagic(S) at 5 ppm. | Aphids | Powdery mildew |
| Plants grown under long days (greater than 14-hour daylengths), occurring naturally or by night-break lighting, will flower more rapidly. | 65-73°F (18-22°C) | Quart: 6-9<br>Gallon: 9-11 | 1-3 | B-Nine(S) 1,500-2,500 ppm or Sumagic(S) 2-4 ppm are effective. | — | Root rot, Powdery mildew |
| Delosperma will bloom naturally as days lengthen and temperatures begin to rise in late Spring. | 62-67°F (16-19°C) | Quart: 6-8<br>Gallon: 8-10 | 0-2 | Generally not needed. | Fungus gnats | Root rot |
| Erodium will bloom naturally beginning in early Summer. | 65-72°F (18-22°C) | Quart: 8-12<br>Gallon: 10-14 | 0-1 | Generally not needed. | Whitefly | Root rot |
| Erysimum will start to flower from mid-Spring (in milder climates) to early Summer (in Northern areas). | 62-67°F (16-19°C) | Quart: 8-12<br>Gallon: 14-17 | 0-1 | Generally not needed. Growing under high light and cooler temperatures is the most effective way to control growth and improve plant habit. | Whitefly, aphids | Root and stem rot |
| Euphorbia are long blooming (early Spring through Summer). | 62-68°F (17-20°C) | Quart: 8-12<br>Gallon: 14-17 | 0-1 | Generally not needed. Growing under high light and cooler temperatures is the most effective way to control growth. Tiny Tim was selected for its compact habit. | Whitefly, aphids | Root and stem rot |

| | | COLD TREATMENT | | | | FORCING/FINISHING | |
|---|---|---|---|---|---|---|---|
| **Variety** | **Soil pH** | **Plant Maturity** | **Temperature** | **Duration** | **Benefit(s)** | **Fertilization (ppm N)** | **Light Levels (fc)** |
| **GAILLARDIA GRANDIFLORA** **Fanfare** | 5.4-5.8 | Cold treatment beneficial, but not required for flowering. Plants should be bulked under natural short days for a 4-8 week period. Mature, bulked-up plants will respond more favorably to cold treatment. | 35-41°F (2-5°C) | 10-15 weeks | Beneficial for flowering | 225-300 | 5,000-8,000 |
| **GALIUM ODORATUM** | 5.6-6.2 | Cold treatment required for flowering. Plants should be bulked under natural short days for a 4-8 week period. Mature, bulked-up plants will respond more favorably to cold treatment. | 35-41°F (2-5°C) | 10-15 weeks | Required for flowering | 175-225 | 4,000-7,000 |
| **GAURA LINDHEIMERI** **Ballerina™, Belleza, Siskiyou Pink** | 5.8-6.2 | Cold treatment beneficial, but not required for flowering. Plants should be bulked under natural short days for a 4-8 week period. Mature, bulked-up plants will respond more favorably to cold treatment. | 35-41°F (2-5°C) | 6-15 weeks | Increased number of flowers; improved habit; slightly earlier flowering | 175-225 | 5,000-9,000 |
| **HEDERA HYBRID** **Baltic, Glacier, Needlepoint, Thorndale** | 5.8-6.5 | Cold treatment is not required. | — | — | — | 175-225 | 2,000-8.000 |
| **HEUCHERA SPECIES** **Harvest, Swirling Fantasy** | 5.4-5.8 | Cold treatment required for flowering. Plants should be bulked under natural short days for a 4-8 week period. Mature, bulked-up plants will respond more favorably to cold treatment. | 35-41°F (2-5°C) | 10-15 weeks | Increased number of flowers; earlier flowering | 175-225 | 3,000-7,000 |
| **IBERIS SEMPERVIRENS** **Alexander's White, Golden Candy, Purity** | 5.4-5.8 | Cold treatment beneficial, but not required for flowering. Plants should be bulked under natural short days for a 4-8 week period. Mature, bulked-up plants will respond more favorably to cold treatment. | 35-41°F (2-5°C) | 6-15 weeks | More uniform flowering; increase in number of flowers | 175-225 | 4,000-6,000 |
| **LAMIUM MACULATUM** **Anne Greenaway, Beacon Silver, White Nancy** | 5.8-6.5 | Cold treatment is not required. | — | — | — | 225-300 | 5,000-8,000 |
| **LAVENDER ANGUSTIFOLIA** **Hidcote Blue, Munstead** **LAVENDER X INTERMEDIA** **Goodwin Creek, Provence** | 5.4-5.8 | Cold treatment beneficial, but not required for flowering. Plants should be bulked under natural short days for a 4-8 week period. Mature, bulked-up plants will respond more favorably to cold treatment. | 35-41°F (2-5°C) | 6-15 weeks | Earlier flowering; more uniform flowering | 175-225 | 5,000-8,000 |
| **LAVENDER STOECHAS** **Anouk, Bella®, Silver Anouk** | 5.8-6.0 | Cold treatment is not required. | — | — | — | 100-175 | 5,000-8,000 |
| **LEUCANTHEMUM HYBRID** **Ice Star, Santé, Snow Cap** | 5.8-6.5 | Cold treatment beneficial, but not required for flowering. Plants should be bulked under natural short days for a 4-8 week period. Mature, bulked-up plants will respond more favorably to cold treatment. | 35-41°F (2-5°C) | 6-15 weeks | Increased flowering percentage and number of flowers; earlier flowering | 150-200 | 5,000-8,000 |
| **LITHODORA DIFFUSA** **Grace Ward, Heavenly Blue** | 5.8-6.3 | Cold treatment is not required. | — | — | — | 200 | 5,000-8,000 |
| **LYSIMACHIA NUMMULARIA** **Goldilocks** | 5.8-6.2 | Cold treatment is not required. | — | — | — | 175-225 | 5,000-9,000 |
| **LYSIMACHIA PUNCTATA** **Golden Alexander** | 5.8-6.2 | Cold treatment is not required. | — | — | — | 175-225 | 4,000-8,000 |
| **OENOTHERA SPECIOSA** **Siskiyou Pink** | 5.6-6.2 | Cold treatment required for flowering. Plants should be bulked under natural short days for a 4-8 week period. Mature, bulked-up plants will respond more favorably to cold treatment. | 35-41°F (2-5°C) | 10-15 weeks | Increased number of flowers | 150-200 | 5,000-8,000 |
| **PENSTEMON DIGITALIS** **Husker Red** | 5.8-6.2 | Cold treatment beneficial, but not required for flowering. Plants should be bulked under natural short days for a 4-8 week period. Mature, bulked-up plants will respond more favorably to cold treatment. | 35-41°F (2-5°C) | 6-15 weeks | Increased flowering percentage and number of flowers | 150-200 | 4,000-8,000 |
| **PENSTEMON HYBRIDA** **Firebird** | 5.8-6.2 | Cold treatment beneficial, but not required for flowering. Plants should be bulked under natural short days for a 4-8 week period. Mature, bulked-up plants will respond more favorably to cold treatment. | 35-41°F (2-5°C) | 6-15 weeks | Increased flowering percentage and number of flowers | 175-225 | 4,000-8,000 |

| Daylength | Average Daily Temperature | Crop Time in Weeks from Rooted Cutting | No. of Pinches | Plant Growth Regulators (S) spray (D) drench | Pests | Diseases |
|---|---|---|---|---|---|---|
| Gaillardia blooms quickly under long days. | 65-76°F (18-24°C) | Quart: 7-10<br>Gallon: 8-12 | 0 | Generally not needed. | Whitefly, aphids | *Botrytis*, Root rot |
| Galium will flower earlier and more uniformly under long days. | 62-67°F (16-19°C) | Quart: 7-10<br>Gallon: 8-12 | 0 | Generally not needed. | Whitefly, aphids | *Botrytis*, Root rot |
| Plants forced under long days will flower more uniformly and more rapidly. | 71-76°F (21-24°C) | Quart: 5-9<br>Gallon: 9-11 | 0-1 | Use B-Nine(S) 2,500-4,000 ppm; Sumagic(S) 30-50 ppm. | Whitefly, aphids, leafminer | Root rot |
| Crop is grown for its evergreen foliage. | 56-67°F (13-19°C) | Quart: 8-10<br>Gallon: 10-12 | 1-2 | Generally not needed. | Mites | Leaf spot |
| Photoperiod has no effect on time to flower. | 62-67°F (16-19°C) | Quart: 6-9<br>Gallon: 9-11 | 0 | Generally not needed. Sumagic(S) 2-4 ppm and Bonzi(S) 10-25 ppm are effective. | Aphids, whitefly | *Botrytis*, Root rot |
| Iberis will bloom under any daylength. | 56-61°F (13-16°C) | Quart: 5-6<br>Gallon: 7-9 | 0 | Generally not needed. | Fungus gnats | Root rot, *Pythium* |
| Lamium is grown primarily for its foliage. Flowering is not dependent on daylength. | 65-73°F (18-22°C) | Quart: 5-10<br>Gallon: 11-13 | 0-2 | Generally not needed. Growing Lamium under cool, bright conditions will help improve habit. | Whitefly, aphids | *Botrytis*, Root and stem rot |
| Plants forced under long days (greater than 16-hour daylengths) will flower more uniformly and rapidly. | 71-76°F (21-24°C) | Quart: 7-12<br>Gallon: 12-14 | 0-1 | Sumagic(S) 5-10 ppm, applied 1-3 times as needed. | Whitefly, aphids | *Botrytis*, Root rot |
| Lavender Bella will bloom uniformly as days lengthen and temperatures begin to rise in mid-Spring. | 56-76°F (13-24°C) | Quart: 12-16<br>Gallon: 16-20 | 1-2 | Generally not needed. Is responsive to B-Nine(S) 1,000-2,500 applied 1-3 times as needed. | Whitefly, fungus gnats | Root rot |
| Plants grown under long days (greater than 16-hour daylengths), occurring naturally or by night-break lighting, will flower more rapidly and have more flowers. | 65-70°F (19-21°C) | Quart: 6-9<br>Gallon: 9-11 | 0 | Generally not needed. Growing Leucanthemum under cool, bright conditions will help improve habit. | Aphids, thrips | Root rot |
| Lithodora Grace Ward will bloom naturally as days lengthen and temperatures rise in late Spring. | 65-73°F (18-23°C) | Quart: 7-9 | 0-1 | Generally not needed. | — | Root and stem rot |
| Lysimachia Goldilocks is grown primarily for its foliage. | 55-65°F (13-18°C) | Quart: 4-5<br>Gallon: 5-6 | 1-2 | Generally not needed. Pinching is best for shaping the plant. | — | — |
| Lysimachia is grown primarily for its foliage. This upright lysimachia will flower as days lengthen in Spring. | 71-79°F (21-26°C) | Quart: 5-10<br>Gallon: 11-13 | 0-2 | Generally not needed. Growing Lysimachia under cool, bright conditions will improve habit. | Whitefly, aphids | *Botrytis*, Root and stem rot |
| Plants forced under long days (14-hour daylengths) will flower more uniformly and rapidly. | 62-69°F (17-20°C) | Quart: 6-8<br>Gallon: 9-11 | 0-1 | Generally not needed. | Whitefly, aphids | *Botrytis*, Root rot |
| Non-cold treated plants grown under long days (greater than 16-hour daylengths) will have a higher flowering percentage. Vernalized plants will flower equally well under all daylengths. | 68-75°F (20-24°C) | Quart: 6-8<br>Gallon: 7-9 | 0 | B-Nine(S) 1,500-2,500 ppm and Bonzi(S) 5-10 ppm are effective. | Aphids | Root rot |
| Non-cold treated plants grown under long days (greater than 16-hour daylengths) will have a higher flowering percentage. Vernalized plants will flower equally well under all daylengths. | 68-76°F (20-24°C) | Quart: 6-8<br>Gallon: 7-9 | 0 | B-Nine(S) 1,500-2,500 ppm and Bonzi(S) 5-10 ppm are effective. | Aphids | Root rot |

| | | COLD TREATMENT | | | | FORCING/FINISHING | |
|---|---|---|---|---|---|---|---|
| **Variety** | **Soil pH** | **Plant Maturity** | **Temperature** | **Duration** | **Benefit(s)** | **Fertilization (ppm N)** | **Light Levels (fc)** |
| **PEROVSKIA**<br>**Lacey Blue, P. atriplicifolia** | 5.6-6.2 | Cold treatment beneficial, but not required for flowering. Plants should be bulked under natural short days for a 4-8 week period. Mature, bulked-up plants will respond more favorably to cold treatment. | 35-41°F (2-5°C) | 6-15 weeks | Increased number of flowers; increased branching; more compact habit | 175-225 | 5,000-8,000 |
| **PHLOX DIVARICATA**<br>**Chattahoochee** | 5.4-5.8 | Cold treatment beneficial, but not required for flowering. Plants should be bulked under natural short days for a 4-8 week period. Mature, bulked-up plants will respond more favorably to cold treatment. | 35-41°F (2-5°C) | 6-15 weeks | Earlier and more uniform flowering | 100-175 | 5,000-9,000 |
| **PHLOX PANICULATA**<br>**Flame™** | 6.0-6.5 | Cold treatment beneficial, but not required for flowering. Plants should be bulked under natural short days for a 4-8 week period. Mature, bulked-up plants will respond more favorably to cold treatment. | 35-41°F (2-5°C) | 6-15 weeks | Increased branching; earlier and more uniform flowering | 100-175 | 5,000-9,000 |
| **PHLOX PANICULATA**<br>**Jade, Neon Flare, Peppermint Twist, Piña Colada, Pink Lady, Purple Kiss, Red Caribbean, Swizzle, Tequila Sunrise, Tiara** | 6.0-6.5 | Cold treatment beneficial, but not required for flowering. Plants should be bulked under natural short days for a 4-8 week period. Mature, bulked-up plants will respond more favorably to cold treatment. | 35-41°F (2-5°C) | 6-15 weeks | Increased branching; earlier and more uniform flowering | 100-175 | 5,000-9,000 |
| **PHLOX SUBULATA**<br>**Candy Stripe, Coral Eye, Crimson Beauty, Drummonds Pink, Emerald Blue, Emerald Pink, Fort Hill, Red Wings, Scarlet Flame, White Delight** | 6.0-6.5 | Cold treatment beneficial, but not required for flowering. Plants should be bulked under natural short days for a 4-8 week period. Mature, bulked-up plants will respond more favorably to cold treatment. | 35-41°F (2-5°C) | 6-15 weeks | Increased number of flowers; earlier flowering | 150 | 4,000-8,000 |
| **SALVIA NEMOROSA**<br>**Blue Hill, Burgundy Candles, Caradonna, East Friesland, Lyrical, Marcus®, May Night, Pink Friesland, Snow Hills** | 5.8-6.2 | Cold treatment beneficial, but not required for flowering. Plants should be bulked under natural short days for a 4-8 week period. Mature, bulked-up plants will respond more favorably to cold treatment. | 35-41°F (2-5°C) | 6-15 weeks | Improved habit and overall quality | 175-225 | 5,000-8,000 |
| **SCABIOSA COLUMBARIA**<br>**Butterfly Blue, Harlequin Blue, Pink Mist** | 5.8-6.2 | Cold treatment beneficial, but not required for flowering. Plants should be bulked under natural short days for a 4-8 week period. Mature, bulked-up plants will respond more favorably to cold treatment. | 35-41°F (2-5°C) | 6-15 weeks | Increases flowering percentage and number of flowers | 150 | 5,000-9,000 |
| **SEDUM HYBRIDA**<br>**Abbey Dore, Autumn Joy, Bon Bon, Postman's Pride, Vera Jameson** | 5.4-5.8 | Cold treatment is beneficial. | 35-41°F (2-5°C) | 6-15 weeks | Increased branching; more flower buds | 100-175 | 5,000-9,000 |
| **SEDUM ALBUM**<br>**Anthoum**<br>**SEDUM LINEARE**<br>**Sea Urchin**<br>**SEDUM MAKINOI**<br>**Salsa Verde**<br>**SEDUM REFLEXUM**<br>**Blue Spruce**<br>**SEDUM RUPESTRE**<br>**Angelina**<br>**SEDUM SPURIUM**<br>**Tricolor** | 5.8-6.2 | Cold treatment is not required. Crop is grown for foliage. | — | — | — | 100-175 | 5,000-9,000 |
| **SEDUM TETRACTINUM**<br>**Coral Reef** | 5.4-5.8 | Cold treatment is not required. | — | — | — | 100-175 | 5,000-9,000 |

| Daylength | Average Daily Temperature | Crop Time in Weeks from Rooted Cutting | No. of Pinches | Plant Growth Regulators (S) spray (D) drench | Pests | Diseases |
|---|---|---|---|---|---|---|
| Perovskia will flower under any daylength after cold treatment and will flower without cold treatment under long days. | 65-72°F (18-22°C) | Quart: 7-9<br>Gallon: 10-12 | 0-1 | B-Nine(S) 2,000-4,000 ppm, B-Nine 2,000-4,000 ppm/ Cycocel 1,000-1,500 ppm tank mix(S) or Sumagic(S) 5-20 ppm | Mites, whitefly, aphids | Root rot |
| Phlox Chattahoochee will bloom under any daylength. Flowering should begin in the early Spring. | 65-73°F (18-22°C) | Quart: 7-9<br>Gallon: 8-10 | 0-1 | Generally not needed. | Whitefly | Powdery mildew |
| Phlox Flame will bloom naturally as days lengthen and temperatures begin to rise in late Spring. | 59-76°F (15-24°C) | Quart: 7-9<br>Gallon: 8-10 | 0-1 | Generally not needed. | Whitefly | Powdery mildew |
| Phlox paniculata blooms more quickly under long days. | 59-76°F (15-24°C) | Quart: 7-9<br>Gallon: 8-10 | 0-1 | Generally not needed. | Whitefly | Powdery mildew |
| Phlox subulata will flower equally well under long or short daylengths after cold treatment. | 59-76°F (15-24°C) | Quart: 6-9<br>Gallon: 10-12 | 0-1 | Generally not needed. Growing under high light and cooler temperatures is the most effective way to control growth and improve plant habit. | Mites, whitefly, aphids | Root rot, *Botrytis*, Powdery mildew |
| Plants grown under long days (greater than 16-hour daylengths), occurring naturally or by night-break lighting, will flower more rapidly. | 59-64°F (15-17°C) | Quart: 7-10<br>Gallon: 8-12 | 0-1 | Generally not needed. B-Nine(S) 1,500-2,500 ppm and Bonzi(S) 10-15 ppm are effective. | Aphids, whitefly | *Botrytis*, Root and stem rot |
| Scabiosa will bloom under any daylength, although plants will tend to be taller as days lengthen. | 65-73°F (18-22°C) | Quart: 5-6<br>Gallon: 7-9 | 0 | Is responsive to B-Nine(S) 2,500-4,000 ppm alone or as a tank mix(S) with Cycocel 1,000-1,500 ppm. Sumagic(S) 10-20 ppm is also effective. | Aphids, whitefly | Root and stem rot, *Botrytis*, Powdery mildew |
| Long days are required for flowering. | 65-70°F (18-21°C) | Quart: 7-9<br>Gallon: 9-12 | 1-2 | B-Nine(S) (2,500-3,500 ppm) tank mix with Cycocel(S) (750-1,000 ppm) will help control growth. Use Florel(S) (300-500 ppm) to increase branching (delay flowering). Bonzi and Sumagic are also effective. | Aphids, slugs | Root rot (if over-watered) |
| Plants will grow faster under long days. | 74-79°F (23-26°C) | Quart: 7-9<br>Gallon: 9-12 | 1-2 | Generally not needed. | Aphids, slugs | Root and stem rot |
| Shortest crop times will be under long days (14-hour daylengths). | 65-70°F (18-21°C) | Quart: 7-9<br>Gallon: 10-12 | 0-1 | Generally not needed. | Fungus gnats | Powdery mildew, Root rot |

| | | COLD TREATMENT | | | | FORCING/FINISHING | |
|---|---|---|---|---|---|---|---|
| Variety | Soil pH | Plant Maturity | Temperature | Duration | Benefit(s) | Fertilization (ppm N) | Light Levels (fc) |
| **STACHYS BYZANTINA** | 5.8-6.2 | Cold treatment is not required. | — | — | — | 100-150 | 3,000-9,000 |
| **VERBENA** **Homestead Purple** | 5.8-6.2 | Cold treatment is not required. | — | — | — | 225-300 | 5,000-8,000 |
| **VERONICA X HYBRIDA** **Christy** | 5.4-5.8 | Cold treatment required for flowering. Plants should be bulked under natural short days for a 4-8 week period. Mature, bulked-up plants will respond more favorably to cold treatment. | 35-41°F (2-5°C) | 10-15 weeks | More uniform flowering; increase in number of flowers | 175-225 | 4,000-9,000 |
| **VERONICA PEDUNCULARIS** **Georgia Blue** | 5.4-5.8 | Cold treatment required for flowering. Plants should be bulked under natural short days for a 4-8 week period. Mature, bulked-up plants will respond more favorably to cold treatment. | 35-41°F (2-5°C) | 10-15 weeks | Increased number of flowers; earlier flowering; more uniform flowering | 175-225 | 4,000-9,000 |
| **VERONICA SPICATA** **Red Fox** | 5.4-5.8 | Cold treatment beneficial, but not required for flowering. Plants should be bulked under natural short days for a 4-8 week period. Mature, bulked-up plants will respond more favorably to cold treatment. | 35-41°F (2-5°C) | 6-15 weeks | More uniform flowering; increased number of flowers; earlier flowering | 175-225 | 4,000-7,000 |
| **VERONICA SPICATA** **Royal Candles, Atomic, Baby Doll, First Love, Purpleicious** | 5.4-5.8 | Cold treatment required for flowering. | 35-41°F (2-5°C) | 6 weeks | Increased number of flowers, earlier flowering, more uniform flowering | 175-225 | 4,000-7,000 |
| **VINCA MINOR** **Bowles, Illumination, Moonlit** | 5.5-5.9 | Cold treatment is not required. | — | — | — | 225-300 | 5,000-10,000 |
| **VIOLA X HYBRIDA** **Blackout, Blue Moon, Etain, Harvest Moon, Jumping Jack, Starry Night** | 5.4-5.8 | Cold treatment beneficial, but not required for flowering. Plants should be bulked under natural short days for a 4-8 week period. Mature, bulked-up plants will respond more favorably to cold treatment. | 35-41°F (2-5°C) | 6-15 weeks | More uniform flowering; increased number of flowers | 175-225 | 5,000-8,000 |

| Daylength | Average Daily Temperature | Crop Time in Weeks from Rooted Cutting | No. of Pinches | Plant Growth Regulators (S) spray (D) drench | Pests | Diseases |
|---|---|---|---|---|---|---|
| Plants will grow faster under long days. | 65-73°F (18-23°C) | Quart: 6-8<br>Gallon: 8-11 | 0 | Generally not needed. | Whitefly | Root and stem rot |
| Plants grown under long days (greater than 12-hour daylength), occurring naturally or by night-break lighting, will flower more rapidly. | 65-73°F (18-23°C) | Quart: 6-8<br>Gallon: 8-11 | 1-2 | Generally not needed. | Whitefly, leafminer, aphids | Root rot |
| Veronica will flower equally well under any daylength after cold treatment. | 65-73°F (18-23°C) | Quart: 7-9<br>Gallon: 8-10 | 0 | Generally not needed. | — | Root rot |
| Veronica will flower equally well under long or short daylengths after cold treatment. | 65-70°F (18-21°C) | Quart: 7-10<br>Gallon: 8-12 | 0-1 | Generally not needed. B-Nine(S) 1,500-2,500 ppm, Cycocel(S) 750-1,000 and Bonzi(S) 10-15 ppm are effective. | Aphids, thrips, whitefly | *Botrytis*, Root rot, Powdery mildew |
| Veronica will flower equally well under long or short daylengths after cold treatment. | 65-70°F (18-21°C) | Quart: 8-10<br>Gallon: 10-12 | 0 | Bonzi(S) 15-20 ppm, B-Nine(S) 2,000-3,000 ppm or a B-Nine 2,500 ppm and Cycocel 1,000 ppm tank mix(S) are effective. | Aphids, whitefly, thrips | *Botrytis*, Powdery mildew |
| Veronica will flower equally well under long or short daylengths after cold treatment. | 65-70°F (18-21°C) | Quart: 8-10<br>Gallon: 10-12 | 0-1 | Generally not needed. Sumagic(S) at 5 ppm in northern climates should provide adequate height control. | Aphids, whitefly, thrips | *Botrytis*, Powdery mildew |
| Vinca Bowles is grown primarily for its foliage and is not dependent upon daylength for optimum growth. | 68-75°F (20-24°C) | Quart: 6-8<br>Gallon: 9-11 | 1-2 | Generally not needed. | Aphids, whitefly | Root and stem rot |
| Viola will bloom under any daylength. Flowering should begin in early Spring. | 50-55°F (10-13°C) | Quart: 5-7<br>Gallon: 8-10 | 0 | Generally not needed. | Fungus gnats | Root rot |

### Ball Horticultural Company and Simply Beautiful® Tag and Photography Policy

All finished Ball FloraPlant® and Darwin Perennials® vegetative varieties must be sold with a Ball Horticultural Company or Simply Beautiful supplied or approved plant label or tag. All materials promoting Ball FloraPlant and Darwin Perennials varieties must include the following:

- Full commercial name to include trademark, as applicable; and full variety name.
- U.S. Plant Patent number or PPAF (Plant Patent Applied For), as applicable; and/or U.S. Utility Patent number or UPAF (Utility Patent Applied For), as applicable.
- "Propagation is Prohibited" or "Propagation Prohibited".

**Note: please refer to the Ball Horticultural Company web site for current U. S. patent information.**

All images featuring Ball products are to be used for promotional materials, including but not limited to point-of-purchase items, advertising, brochures, etc. They may not be used on plant tags or containers without permission from Ball.

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For more information, please contact Ball's Image Archive Library at **630 231-3600** or photolibrary@ballhort.com.

### Cancellation Policy

No cancellations or order reductions based on the schedule below. Exceptions to this policy will be reviewed on a case-by-case basis.

**Linda Vista (LV) and Floricultura (GBFP):**
No cancellations within:

- 2 weeks of ship date for unrooted cuttings
- 4 weeks of ship date for Genesis cuttings

**New/add-on orders:** As always, new orders and order additions of unrooted cuttings are still possible within 2 weeks of ship date.

## Important Plant Protection and Licensing Information

### Plant Protection

The majority of Ball FloraPlant and Darwin Perennials varieties are protected by Patents, Plant Breeders' Rights, and/or the terms and conditions of the Flowering Only License Agreement. Many are also protected or protection applied for in other countries as well as registered with the Canadian Ornamental Plant Foundation (COPF). Geranium and New Guinea Impatiens varieties are available for self-propagation upon completion of a Self-Propagation License.

### Flowering-Only License Agreement

A Flowering-Only License Agreement is enclosed with the packing list of all orders of rooted and unrooted Ball FloraPlant and Darwin Perennials varieties. By opening the box, customers signify agreement with the terms and conditions of the Flowering-Only License.

### Terms

- Allows for the growing and selling of "Finished Plants," defined as plants grown for at least five weeks in a 3-in. (7.5-cm) size pot/container or larger for at least four (4) weeks from planting of a rooted cutting, and seven (7) weeks from planting of an unrooted cutting.
- All finished product must be sold with a Ball or Simply Beautiful supplied or approved label or tag.
- Sale of rooted or unrooted cuttings to any other company or individual is strictly prohibited as is propagation and/or the taking of tip cuttings.

A copy of the Flowering-Only License is also available on our web site as well as from Royalty Administration International® (RAI) in the U.S. at **(800 472-4724)** and from COPF in Canada at **(800 265-1629)**. RAI has been appointed as our licensing agent in the United States and COPF has been appointed as our licensing agent in Canada.

**Ball FloraPlant and Darwin Perennials varieties protected by Patents, Plant Breeders' Rights, and/or the Flowering Only License.**

## Flowering Only Licensed Varieties: Annuals

| Commercial Name | Variety Name |
|---|---|
| **Alternanthera** | |
| Grenadine | Grenadine |
| **Angelonia** | |
| AngelMist® Dark Pink | Balangdarpi |
| AngelMist® Dark Rose | Balangdaros |
| AngelMist® Deep Plum | Balangdepi |
| AngelMist® Purple | Balangdarla |
| AngelMist® Purple Stripe | Balangpripe |
| AngelMist® Spreading Blue | Balangslu |
| AngelMist® Spreading Pink | Balangbakin |
| AngelMist® Spreading Purple Improved | Balangsplim |
| AngelMist® Spreading White | Balangspri |
| AngelMist® White | Balangwitim |
| Archangel™ Pink | Balarcink |
| Archangel™ Purple | Balarcpur |
| Archangel™ Raspberry | Balarcasp |
| Archangel™ White | Balarcwite |
| **Argyranthemum** | |
| Madeira™ Cherry Red | Bonmadcher |
| Madeira™ Crested Ivory | Bonmadcivy |
| Madeira™ Crested Merlot | Bonmadmerlo |
| Madeira™ Crested Violet | Bonmadcink |
| Madeira™ Crested Yellow | Bonmadcrel |
| Madeira™ Deep Pink Improved | Bonmadrosepi |
| Madeira™ Double White | Ohmadcama |
| Madeira™ Pink | Bonmadpipa |
| Madeira™ Primrose | Bonmadprose |
| Madeira™ Red | Bonmadre |
| Madeira™ White | Bonmadwitim |
| **Bacopa/Sutera** | |
| Abunda™ Colossal Blue | Balabolue |
| Abunda™ Colossal Sky Blue | Balabolav |
| Abunda™ Colossal White | Balabowite |
| Abunda™ Giant White | Blisch |
| Abunda™ Pink | Balabpink |
| **Begonia** | |
| Million Kisses® Amour | Yamour |
| Million Kisses® Devotion | Yadev |
| Million Kisses® Elegance | Yagance |
| Million Kisses® Romance | Yamance |
| Sherbet Bon Bon | Yabon |
| **Bidens** | |
| Sun Kiss | Balbidsuki |
| Sunbeam | KLEBF07003 |
| **Brachyscome** | |
| Enduring Blue | Enduring Blue |
| **Bracteantha** | |
| Basket Bon Bon | Sun Yellow Bon Bon |
| Dreamtime® Jumbo Light Pink | Bondrelaipi |
| Dreamtime® Jumbo Pure White | Bondrepuho |
| Dreamtime® Jumbo Red Ember | Bondreredem |
| Dreamtime® Jumbo Yellow | Ohb003790 |
| **Calibrachoa** | |
| Cabaret® Cherry Rose Improved | Balcabchim |
| Cabaret® Deep Blue | Balcabdebu |
| Cabaret® Hot Pink | Balcabhopi |
| Cabaret® Lavender | Balcablav |
| Cabaret® Light Pink | Balcablitpi |
| Cabaret® Mango Tango | Balcabango |
| Cabaret® Pink Vein | Balcabpiken |
| Cabaret® Purple | Balcabpurp |
| Cabaret® Purple Glow | Balcabplo |
| Cabaret® Red Improved | Balcabimred |
| Cabaret® Rose | Balcabrose |
| Cabaret® Scarlet | Balcabscar |
| Cabaret® White | Balcabwitim |
| Cabaret® Yellow | Balcabyelow |
| Can-Can® Apricot | Balcanapt |
| Can-Can® Mocha | Balcanoa |
| Can-Can® Orange | Balcanoran |
| Can-Can® Rose Star | Balcanrost |
| Can-Can® Strawberry | Balcanerry |
| Can-Can® Terracotta | Balcantera |
| **Chrysocephalum apiculatum** | |
| Silver Fox | Silsun |
| **Coleus** | |
| Aurora™ Black Cherry | Balaublach |
| Aurora™ Peach | Balaupea |
| Aurora™ Raspberry | Balaurasp |
| Electric Lime® | UF04335 |
| Firecracker | Firecracker |
| Henna | Balcenna |
| Indian Summer | Balcinsu |
| Lava™ Rose | Kakegawa |
| Mint Mocha | Balcimoa |
| Redhead | UF0646 |
| Sultana | UF08174 |
| Trusty Rusty | UF06419 |
| Wasabi | UF0843 |
| **Dahlia** | |
| Dahlietta® Anna | Dapadpor |
| Dahlietta® Apricot Sunrise | Balnovapse |
| Dahlietta® Betty | Betty |
| Dahlietta® Blanca Improved | Baldablanci |
| Dahlietta® Caroline | Dapavio |
| Dahlietta® Cherry Sunrise | Balnovches |
| Dahlietta® Emily | Daparos |
| Dahlietta® Julia | |
| Dahlietta® Jenny | Dapasuje |
| Dahlietta® Lily | |
| Dahlietta® Louise | Dapasulo |
| Dahlietta® Margaret | Margaret Improved |
| Dahlietta® Patricia | Patricia |
| Dahlietta® Patty | Dapapu |
| Dahlietta® Rachel | Dapaor |
| Dahlietta® Sunburst | Balnovburs |
| Dahlietta® Tessy | Dapared |
| Dahlietta® Violet Frost | Balnovost |
| Dahlietta® Wendy | Wendy |
| Delicious™ Honey | Baldelhon |
| Delicious™ Lemon Zest | Baldelemz |
| Delicious™ Marmalade | Baldelmarm |
| Delicious™ Marshmallow | Baldelmim |
| Delicious™ Raspberry | Baldelrasp |
| **Diascia** | |
| Juliet™ Light Pink | Baljulink |
| Juliet™ Orange | Baljulor |
| Juliet™ Pink with Eye | Baljulpiney |
| Juliet™ Red | Baljuled |
| Juliet™ White | Baljulite |
| Romeo™ Bright Pink | Balromink |
| Romeo™ Orange | Balromor |
| Romeo™ Pink | Penimp |
| Romeo™ Red | Balromed |
| Romeo™ Salmon | Balromal |
| Romeo™ White | Balwinwite |
| **Euphorbia** | |
| Breathless® Blush | Balbreblus |
| Breathless® White | Balbrewite |
| **Felicia** | |
| Pinwheel™ Periwinkle | Balpinperi |
| **Heliotrope** | |
| Baby Blue | Balhelbabim |
| **Impatiens, Double** | |
| Fiesta™ Apple Blossom | Balfieplos |
| Fiesta™ Burgundy | Balfiebur |
| Fiesta™ Coral Bells | Balfiecobl |
| Fiesta™ Deep Orange | Balfiedeor |
| Fiesta™ Lavender Orchid | Lavender Orchid |
| Fiesta™ Olé Cherry | Balolecher |
| Fiesta™ Olé Frost | Balolefro |
| Fiesta™ Olé Peach | Balolepeac |
| Fiesta™ Olé Peppermint | Balolepep |
| Fiesta™ Olé Purple | Balolepurp |
| Fiesta™ Olé Purple Stripe | Balolespri |
| Fiesta™ Olé Rose | Balolerose |
| Fiesta™ Olé Salmon | Balolesal |
| Fiesta™ Pink Ruffle | Pink Ruffle |
| Fiesta™ Purple | Balfiepurp |
| Fiesta™ Rose | Balfierose |
| Fiesta™ Salmon | Balfiesalmo |
| Fiesta™ Salsa Red | Balfiesaled |
| Fiesta™ Sparkler Cherry | Balfiespray |
| Fiesta™ Sparkler Hot Pink | Balfiesink |
| Fiesta™ Sparkler Orange | Balfiespor |
| Fiesta™ Sparkler Salmon | Sparkler Salmon |
| Fiesta™ Stardust Pink | Balolestop |
| Fiesta™ Sunrise Red | Balfiesunre |
| Fiesta™ White | BFP-7812 |
| **Impatiens, Exotic** | |
| Fusion™ Glow Yellow | Balfusimglo |
| Fusion™ Heat Coral | Balfusheat |
| Fusion™ Infrared Apricot | Balfusinred |
| Fusion™ Peach Frost | Balfuspeafro |
| **Impatiens, Spreading** | |
| Fanfare® Blush | Balfafblus |
| Fanfare® Bright Coral | Balfafbricol |
| Fanfare® Fuchsia | Balfafusimp |
| Fanfare® Orange | Balfaforg |
| Fanfare® Orchid | Balfaforch |
| **Impatiens walleriana** | |
| Patchwork™ Lavender | Balpalav |
| Patchwork™ Peach Prism | Balpapism |
| Patchwork™ Pink Shades | Balpapinade |
| **Iresine** | |
| Blazin' Lime | |
| Blazin' Rose | |
| **Lamium** | |
| Jade Frost | Jade Frost |
| **Lantana** | |
| Landmark™ Blaze | Balandlae |
| Landmark™ Citrus | Balandcit |
| Landmark™ Gold | Balandgold |
| Landmark™ Peach Sunrise | Balandimpea |
| Landmark™ Rose Glow | Balandroglim |
| Landmark™ Sunrise Rose Improved | Balandrosim |
| Landmark™ White | Balucwhit |
| Landmark™ Yellow | Balucyell |
| Lucky™ Lemon Glow | Balucemlow |
| Lucky™ Peach | Balucpea |
| Lucky™ Pot of Gold | Balucgold |
| Lucky™ Pure Gold | Balucpure |
| Lucky™ Red Flame | Balandimfla |
| Lucky™ Sunrise Rose | Balandrise |
| Lucky™ White | Balucwite |
| Lucky™ Yellow | Balucimyel |
| Piñata | Piñata |
| **Lobelia** | |
| Periwinkle Blue | Balobperiblu |
| Waterfall™ Azure Mist | Balwatazmi |
| Waterfall™ Blue | Balobwablu |
| Waterfall™ Light Lavender | Balwalila |
| Waterfall™ White Sparkle | Balobwaspar |
| **Nemesia** | |
| Aromatica™ Rose Pink | Balarropi |
| Aromatica™ Royal Blue | Balaroyble |
| Aromatica™ Scarlet | Balarlet |
| Aromatica™ Sky Blue | Balarklu |
| Aromatica™ White Improved | Balarwitim |
| **Osteospermum** | |
| Serenity™ Dark Purple | Balserdarp |
| Serenity™ Golden | Balsergolden |
| Serenity™ Lavender Bliss | Balserlabli |
| Serenity™ Lavender Frost | Balserimlav |
| Serenity™ Lemonade | Balserlem |
| Serenity™ Peach Magic | Balsereama |
| Serenity™ Pink Improved | Balserpinkim |
| Serenity™ Pink Magic | Balserpima |
| Serenity™ Purple | Balserpurp |
| Serenity™ Rose Magic | Balseroma |
| Serenity™ Sunset | Balserset |
| Serenity™ White | Balserimwhi |
| Serenity™ White Bliss | Balserwibli |
| Voltage™ Yellow | Balvoyelo |
| **Perilla** | |
| Magilla® Purple | Balmagpurp |
| **Petunia** | |
| Black Velvet | Balpevac |
| Double Wave® Blue Vein | Kirimaji Double Blue Vein |
| Double Wave® Blue Velvet | Kirimaji Double Blue Velvet |
| Double Wave® Lavender | Kirimaji Double Lavender |
| Double Wave® Pink | Kirimaji Double Pink Vein |
| Double Wave® Purple | Kirimaji Double Purple |
| Double Wave® Red | Kirimaji Double Red |
| Double Wave® Rose | Kirimaji Double Rose |
| Double Wave® White | Kirimaji Double White |
| Phantom | Balpephan |
| Pinstripe | Balpepin |
| Rhythm and Blues | Balperblues |
| Ruffle™ Bright Purple | Balrufimpu |
| Ruffle™ Light Lavender | Balrufimla |
| Ruffle™ Pink | Kercan |
| Ruffle™ Plum Vein | Balrufimvein |
| Ruffle™ White | Balrufwhit |
| Sun Spun® Blue | Balspunlu |
| Sun Spun® Burgundy | Balspunburg |
| Sun Spun® Lavender Star | Balspunlar |
| Sun Spun® Red | Balspunred |
| Sun Spun® Silver | Balspunsil |
| Sun Spun® White | Balspunwhi |
| Sun Spun® Yellow | Balspunyel |
| Suncatcher™ Burgundy | Balsunbur |
| Suncatcher™ Coral Prism | Balsuncora |
| Suncatcher™ Dark Lavender Vein | Balsundalav |
| Suncatcher™ Hot Pink | Balsunhopi |

| | |
|---|---|
| Suncatcher™ Midnight Blue | Balsunmibu |
| Suncatcher™ Pink Lemonade | Balsunpade |
| Suncatcher™ Plum Vein | Balsunplum |
| Suncatcher™ Purple Rose | Balsunprose |
| Suncatcher™ Red | Balsuncared |
| Suncatcher™ Salmon Vein | Kersamfan |
| Suncatcher™ White | Balsunwhite |
| Suncatcher™ Yellow | Balsunyelo |
| **Plectranthus** | |
| Mona Lavender | Plepalila |
| Nico | Nico |
| Nicodemus | Nicodemus |
| Nicolleta | Nicolleta |
| **Purslane** | |
| Fairytales Cinderella | Cindy |
| Rio™ Apricot | Balrioapt |
| Rio™ Orange | Balriorg |
| Rio™ Rose | Balriorose |
| Rio™ Scarlet | Balrioscar |
| Rio™ White | Balriowite |
| Rio™ Yellow | Balrioyel |
| **Salvia** | |
| Mystic Spires Blue | Balsalmisp |
| **Scaevola** | |
| Blue Print | Kingscablin |
| Blue Ribbon | Balscavbon |
| **Snapdragon** | |
| Luminaire™ Deep Purple | Balumdepur |
| Luminaire™ Harvest Red | Balumrest |
| Luminaire™ Hot Pink | Balumhopi |
| Luminaire™ Sugarplum | Balumsum |
| Luminaire™ White | Balumwhitim |
| Luminaire™ Yellow | Balumyell |
| **Thunbergia** | |
| Sunny™ Lemon Star | Lemon Star |
| Sunny™ Orange Wonder | Orange Wonder |
| **Verbena** | |
| Aztec® Blue Velvet | Balazvelu |
| Aztec® Burgundy | Balazburg |
| Aztec® Cherry Red | Balazcherd |
| Aztec® Coral | Balazcoral |
| Aztec® Dark Pink Magic | Balazdapima |
| Aztec® Dark Red | Balazdare |
| Aztec® Grape Magic | Balazgagic |
| Aztec® Lavender | Balazlavi |
| Aztec® Light Pink | Balazlipi |
| Aztec® Pink | Balazpink |
| Aztec® Plum Magic | Balazplum |
| Aztec® Purple Magic | Balazmapurp |
| Aztec® Red Velvet | Balazreve |
| Aztec® Silver Magic | Balazsilma |
| Aztec® Violet | Balazvio |
| Aztec® White | Balazwhitim |
| Aztec® White Magic | Balazmawite |
| Aztec® White Pearl | Balazpearl |
| Aztec® Wild Rose | Balazwilro |
| Wildfire™ Dark Purple | Balazdapi |
| Wildfire™ Dark Red | Balwildared |
| Wildfire™ Rose | Balwilrose |
| Wildfire™ Violet | Balwilvio |
| Wildfire™ White | Balazwhit |

## Perennials

| | |
|---|---|
| **Achillea millefolium** | |
| Laura | Laura |
| Little Susie | Little Susie |
| Peggy Sue | Peggy Sue |
| Pretty Woman | Pretty Woman |
| **Boltonia** | |
| Jim Crockett | Masbolimket |
| **Coreopsis** | |
| Jethro Tull | Jethro Tull |
| Sunny Day | Balcorsunay |
| Tweety | Tweety |
| **Delospermum** | |
| Sequins | Balosquin |
| **Euphorbia** | |
| Tiny Tim | Waleutiny |
| **Gaillardia** | |
| Fanfare | Fanfare |
| Trumpet Red | KLEGA09433 |
| **Gaura** | |
| Ballerina™ Blush | Baltinblus |
| Ballerina™ Rose | Baltinrose |
| Ballerina™ White | Baltincite |
| Belleza™ Compact Light Pink | KLEGL06261 |
| Belleza™ Dark Pink | KLEAU04263 |
| Belleza™ White Evolution | KLEGL08618 |
| **Heuchera** | |
| Harvest Burgundy | Balheubur |
| Harvest Lemon Chiffon | Lemon Chiffon |
| Harvest Silver | Balheusil |
| Swirling Fantasy | Swirling Fantasy |
| **Lavender** | |
| Anouk | Anouk |
| Bella® Purple | Belpur |
| Bella® Rose | Belros |
| Bella® Rouge | Belrou |
| Silver Anouk | Silver Anouk |
| **Leucanthemum** | |
| Lacrosse | Lacrosse |
| Santé | Sante |
| **Lysimachia** | |
| Golden Alexander | Walgoldalex |
| **Perovskia** | |
| Lacey Blue | Lisslitt |
| **Phlox** | |
| Flame™ Light Pink | Bareleven |
| Flame™ Lilac | Barten |
| Flame™ Pink | Bartwelve |
| Flame™ Purple | Barfourteen |
| Flame™ White | Bartwentynine |
| Jade | Jade |
| Neon Flare | Neon Flare |
| Peppermint Twist | Peppermint Twist |
| Swizzle | Swizzle |
| Tiara | Tiara |
| Top Shelf Pina Colada | Pina Colada |
| Top Shelf Pink Lady | Pink Lady |
| Top Shelf Purple Kiss | Purple Kiss |
| Top Shelf Red Carribbean | Red Carribbean |
| Top Shelf Tequila Sunrise | Tequila Sunrise |
| **Salvia** | |
| Burgundy Candles | Burgundy Candles |
| Lyrical™ Blues | Balyriclu |
| Lyrical™ Silvertone | Balyricsil |
| Marcus® | Haeumanarc |
| Pink Friesland | Pink Friesland |
| **Scabiosa** | |
| Harlequin Blue | Balharbu |
| Pink Mist | Pink Mist |
| **Sedum** | |
| Bon Bon | Bon Bon |
| Postman's Pride | Postmans Pride |
| **Veronica** | |
| Atomic Blue | Atomic Blue |
| Atomic Lilac | Atomic Lilac |
| Atomic Pink | Atomic Pink |
| Atomic Violet | Atomic Violet |
| Baby Doll | Baby Doll |
| Christy | Christy |
| First Love | First Love |
| Purpleicious | Purpleicious |
| Royal Candles | Glory |
| **Vinca** | |
| Illumination | Illumination |
| Moonlit | Parvin |
| **Viola** | |
| Blackout | Blackout |
| Blue Moon | SMEV1 |
| Harvest Moon | VETA 2 |
| Jumping Jack | Balvijac |
| Starry Night | Lord Primrose |

## Self-Propagation License Agreement

Only Ball FloraPlant Geranium and New Guinea Impatiens varieties are available for licensed self-propagation. Propagation of Geraniums and New Guinea Impatiens is strictly prohibited without a Self-Propagation License.

## Terms

- Any cuttings taken from these plants must be used for finished production only.
- Any and all growing under this License Agreement must be performed solely at the "ship to" address as shown on the shipping documents accompanying this License Agreement and only for the purpose of producing a flowering (finished) crop within the United States and Canada. "Finished Plants" are defined as plants grown for at least five (5) weeks in a 3-in. (7.5-cm) size pot/container or larger for at least four (4) weeks from planting of a rooted cutting, and seven (7) weeks from planting of an unrooted cutting.
- Licensee is not allowed to sell or transfer to any party unrooted cuttings, rooted cuttings, or young (prefinished) plants of these varieties at any time.

To obtain a Self-Propagation License, please contact RAI in the U.S. at **800 472-4724**, or COPF in Canada at **800 265-1629**. A Self-Propagation License is a royalty-bearing license that must be signed and returned to receive stock plants.

## Self-Propagation Licensed Varieties

| Commercial Name | Variety Name |
|---|---|
| **Geranium** | |
| Allure™ Bright Lavender | Baldesbrila |
| Allure™ Hot Coral | BFP-1568 |
| Allure™ Light Pink | Ballurlitpi |
| Allure™ Lilac Chiffon | Lilac Chiffon |
| Allure™ Pink Sizzle | Ballurpinzle |
| Allure™ Purple Rose | Purple Rose |
| Allure™ Red Passion | Balluresio |
| Allure™ Rose | Designer Rose |
| Allure™ Salmon | Ballursal |
| Allure™ Scarlet Improved | Ballurscim |
| Allure™ Tangerine | Ballurtang |
| Allure™ True Red | Ballurtre |
| Allure™ Violet | Ballurvio |
| Allure™ White | Ballurwhi |
| Designer Bright Lilac | BFP-1695 |
| Designer Bright Red | Baldesreim |
| Designer Bright Scarlet | BFP-788 Bright Scarlet |
| Designer Dark Pink Sizzle | Baldesarpzle |
| Designer Dark Red | BFP-838 Dark Red |
| Designer Hot Pink | Designer Hot Pink |
| Designer Light Pink | Designer Light Pink |
| Designer Light Salmon | Light Salmon |
| Designer Peppermint Twist | Baldespep |
| Designer Red | Baldesimred |
| Designer Salmon | Designer Salmon |
| Designer Salmon Improved | Baldesalim PPAF |
| Designer Salmon Rose | BFP-825 Salmon Rose |
| Designer Scarlet Red | Silir |
| Designer Violet | Baldesvio |
| Designer White | BFP-484 White |
| Fantasia® Cardinal Red | Balfanimcar |
| Fantasia® Coral | Balfancori |
| Fantasia® Dark Red | Sil Magnus |
| Fantasia® Flame | Balfanflai |
| Fantasia® Flamingo Rose | Balfanimfro |
| Fantasia® Neon Rose | Balfanero |
| Fantasia® Pink Shell | Balfanpish |
| Fantasia® Purple Sizzle | Sil Baldo |
| Fantasia® Raspberry Twizzle | Balfanrazl |
| Fantasia® Salmon | Balfansal |
| Fantasia® Shocking Pink Improved | Balfanshoci |
| Fantasia® Strawberry Sizzle | Sil Claudio |
| Fantasia® Violet | Balfanimvio |
| Fantasia® White | Balfanwite |
| Galleria® Bright Violet | Balgalbrio |
| Galleria® Pink Punch | Balgalpipn |
| Galleria® Ruby Red | BFP-1352 |
| Galleria® SnowFire | Balgalsofi |
| Galleria® Sunrise | Balgalsusi |
| Precision™ Blue | kleblue |
| Precision™ Burgundy | Balcolbugi |
| Precision™ Burgundy Ice | Balcolbure |
| Precision™ Dark Burgundy | KLEP01042 |
| Precision™ Dark Lavender | Balcoldaav |
| Precision™ Dark Salmon | KLEPP08218 |
| Precision™ Lavender | KLEPP07196 |
| Precision™ Light Pink | KLEP02060 |
| Precision™ Pink | Balcolink |
| Precision™ Red Ice | Sil Chris |
| Precision™ Ruby | Sil Ruben |
| Precision™ Salmon | KLEP03109 |
| Precision™ Scarlet Red | KLEPP08207 |
| Precision™ White Red Eye | KLEPP07195 |
| Presto™ Brilliant Red | KLEPZ08224 |
| Presto™ Dark Fuchsia | KLEPZ05137 |
| Presto™ Dark Red | KLEP03107 |
| Presto™ Dark Salmon | KLEPZ08220 |
| Presto™ Deep Scarlet | Balshodele |
| Presto™ Extreme Rose | Sil Hero |
| Presto™ Light Salmon | KLEPZ09251 |
| Presto™ Pink | Balshopink |
| Presto™ Pink + Eye | KLEP01007 |
| Presto™ Pink Sizzle | Sil Linus |
| Presto™ Rose Sizzle | Balshorozle |
| Presto™ Violet | KLEPZ07200 |
| Presto™ White | BSR-177 White |
| **New Guinea Impatiens** | |
| Celebration Apricot | Balcelapt |
| Celebration Bright Salmon | Balcelbrisal |
| Celebration Cherry Red | Balcelichey |
| Celebration Deep Red | BFP-523 Deep Red |
| Celebration Electric Rose | Balcelelro |
| Celebration Icy Blue | Balcebibu |
| Celebration Lavender Glow | Balcelavgo |
| Celebration Orange | BFP-605 Orange |
| Celebration Pink | Balcelimpik |
| Celebration Purple | Balcelimpur |
| Celebration Purple Star | Balcelipurt |
| Celebration Raspberry Rose | Raspberry Rose |
| Celebration Rose | BFP-368 Rose |
| Celebration Rose Star | Balcelrost |
| Celebration Sangria | Balcelsangi |
| Celebration Sunset Apricot | Balcelsuna |
| Celebration Tropical Peach | Balceltrop |
| Celebration White | Balcelwitim |
| Celebrette Apple Blossom Improved | DANCEL877 |
| Celebrette Bonfire Orange | Balcelbono |
| Celebrette Cherry | BFP-698 Cherry |
| Celebrette Cherry Stripe | DANCEL846 |
| Celebrette Deep Red | Balcebredep |
| Celebrette Frost | Balcebfro |
| Celebrette Grape Crush | Balcebgrapi |
| Celebrette Hot Pink | Balcebhopi |
| Celebrette Hot Rose | Balcebimho |
| Celebrette Lavender Improved | DANCEL844 |
| Celebrette Light Coral | Balceblico |
| Celebrette Orange Crush | Orange Crush |
| Celebrette Orange Stripe | Balceborai |
| Celebrette Orchid | BFP-865 |
| Celebrette Orchid Star Improved | Balceborstim |
| Celebrette Pink | Balcebink |
| Celebrette Red | Balcebred |
| Celebrette Salmon Frost | Balcebsafo |
| Celebrette Strawberry Star | Balcebstar |

# Terms & Conditions of Sale

Visit **ballhort.com** for current Terms & Conditions of Sale.

Note: Ball Terms & Conditions of Sale are country/region specific. The following Terms & Conditions of Sale apply to product sold within the United States and Canada.

**Acceptance of Terms**
These terms and conditions shall govern orders for seeds, bulbs, plants, supplies and other materials (merchandise) placed with Seller. All negotiations with sales representatives or other agents of Seller are merged herein. 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 offices in West Chicago, Illinois.

**Limitation of Warranty**
Seller warrants, to the extent required by law, that merchandise conforms to the description appearing in Seller's catalog and on container labels, within recognized tolerances. SELLER MAKES NO OTHER OR FURTHER WARRANTY, EXPRESS OR IMPLIED. ALL OTHER OR FURTHER WARRANTIES, INCLUDING ANY WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, ARE EXCLUDED. Certain merchandise may be separately warranted by the manufacturer. Seller does not adopt or ratify any manufacturer warranties, express or implied, and Seller shall have no liability thereunder. Seller does not adopt or ratify any manufacturer warranties, express or implied, made by Purchaser upon resale of the merchandise, and Seller shall have no liability thereunder.

**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. UNDER NO CIRCUMSTANCES SHALL SELLER BE LIABLE FOR DAMAGES IN EXCESS OF THE PURCHASE PRICE, OR FOR ANY SPECIAL, INCIDENTAL, INDIRECT OR CONSEQUENTIAL DAMAGES.

**Excluded Use**
**Merchandise is not intended for immediate or eventual sale to commercial growers, truck farmers, market gardeners or others who sell fruit or vegetables to the end user.**

**Mandatory Arbitration**
ANY CLAIM WHICH PURCHASER MAY HAVE AGAINST SELLER ARISING OUT OF OR RELATING TO THE SALE OF THE MERCHANDISE 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. The laws of several states require arbitration, conciliation or mediation of disputes involving allegedly defective seed before legal action may be taken. Purchaser should contact the State Department Of Agriculture for information. Such laws typically require that a complaint be filed with the State Department Of Agriculture in time to permit inspection of the seed, crops or plants. If such a complaint is filed, a copy must be sent to Seller by registered or certified mail.

**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 merchandise, Purchaser agrees to defend Seller, to hold it harmless and indemnify it from and against any claim or loss asserted by any or all transferees of such merchandise or users of the products of such merchandise who are 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.

**Prices**
All prices are subject to change without notice. The price in effect at time of shipment will prevail. Prices do not include installation; Seller takes no responsibility, and shall have no liability for installation. Additional processing and handling charges may be added.

**Payment**
Payment is due in invoiced currency and in accordance with the terms specified on invoice. In the event of default in the payment of any amount when due, and in addition to all other rights and remedies available to Seller, SELLER SHALL BE ENTITLED TO COLLECT A LATE CHARGE OF 2% PER MONTH (24% PER YEAR) OR THE MAXIMUM RATE ALLOWED BY LAW, WHICHEVER IS LESS, ON ALL AMOUNTS PAST DUE FROM THE DATE DUE UNTIL THE DATE PAID. A FEE OF $25.00 WILL BE CHARGED FOR ANY RETURNED CHECK OR DECLINED BANKCARD TRANSACTION.

**Freight & Handling Charges, Inspection, Damaged Goods**
The freight and handling charge on Purchaser's invoice covers shipment of the merchandise to Purchaser's destination, and replacement or credit for damaged merchandise if the steps listed here are followed. PURCHASER WILL NOT REFUSE OR RETURN GOODS, OR THE RIGHT TO FILE A CLAIM IS LOST AND PURCHASER WILL STILL BE LIABLE FOR THE MATERIAL AND THE FREIGHT. When Purchaser receives shipment: 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. 5) Open all boxes immediately and inspect for damage such as scorched, frozen or broken plants; material shortages; etc. NOTIFY SELLER IMMEDIATELY IF A SHIPMENT IS DAMAGED. Call the Ball Traffic Department at **800 879-BALL** to report the damage and receive details on what is needed to file a claim.

**Cancellation Policy**
Cancellations for unrooted cuttings must be received at least 30 days prior to scheduled ship date. Cancellations for liners or seed-raised plugs must be received prior to stick or sow date.

**Notice & Return**
Seller shall have no liability for any defect unless notice is given promptly, not to exceed thirty (30) days after such defect is or should have been discovered. No merchandise may be returned without Seller's prior written authorization. Requests to return merchandise must be made within ten (10) days after delivery. All returns must be in accordance with Seller's shipping instructions with freight paid by Purchaser. All requests for return of merchandise must be made to Ball at **800 879-BALL**. The Purchaser will also be asked to provide a letter stating the reason for the return. The order number or invoice number must accompany the return in order to expedite the credit. NOTE: No seed will be accepted without prior notification to Ball at **800 879-BALL**. Effective immediately, seed that is returned without authorization will not be accepted and credit will not be issued. For all customers in the United States, a FedEx call tag will be issued upon authorization of return. There is a $7.50 freight charge for the FedEx return. Seed must be returned in the original condition within thirty (30) days of the ship date for full credit. No open packages will be accepted. If seed is returned within thirty one (31) to sixty (60) days after ship date, full credit will be given but a 15% restocking charge will be assessed. No credit or replacement will be given for seed returned after sixty one (61) days from our ship date. Because Ball® Controlled Growth, Genesis® and Genesis® II seed is perishable and has a short shelf life, no returns will be accepted.

**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. In the event of shortages, Seller may substitute such other, similar merchandise as is available.

**Plant Protection**
Varieties described herein may be protected by United States Plant Variety Protection, United States Plant Patents, Utility Patents, and/or Plant Breeders' Rights. Many of the varieties are also protected by the Flowering-Only License Agreement as well as registered with the Canadian Ornamental Plant Foundation. These varieties may not be reproduced without authorization. The breeder or authorized representative has the right to inspect customer's nurseries during normal business hours to assess compliance with the restrictions on use of protected varieties.

**Trademarks**
Trademarks are the property of Ball Horticultural Company, unless otherwise indicated.

**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 this seed is grown.

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## 2 For 1 Policy

Due to their natural habit, unrooted cuttings of some varieties can be somewhat fine or wispy. For these varieties, Ball FloraPlant requires that customers use 2 cuttings per cell. To facilitate this, customers will be shipped 2 cuttings of the varieties below for the price of 1. Ball FloraPlant believes that it is a necessity to stick these varieties in this way to allow for the most successful finished product.

Ball FloraPlant provides 2 unrooted cuttings for the price of 1 for the following series/varieties:

**Abunda Bacopa**
**Amethyst & Enduring Blue Brachyscome**
**American Dream, Moonbeam & Zagreb Coreopsis**
**Allyson Heather Cuphea**
**Juliet & Romeo Diascia**
**Aromatica Nemesia**
**Vinca minor**

If cuttings are "stuck" 1 per cell, customers will be responsible for the cost of full royalty and tags for those extra plants. You may arrange for payment of the royalty and tags by calling Ball FloraPlant at **800 879-BALL** (2255).

## Discontinued Ball FloraPlant Varieties for 2012

| Variety | Recommended Replacement |
|---|---|
| Alternanthera Creme de Menthe | — |
| Alternanthera Partytime | — |
| Angelonia AngelMist Lavender | Archangel Purple |
| Angelonia AngelMist Lavender Bicolor | Archangel Purple |
| Angelonia AngelMist Pink | Archangel Pink |
| Angelonia AngelMist Plum | AngelMist Deep Plum |
| Angelonia AngelMist White Cloud | Archangel White |
| Argyranthemum Madeira Crested Pearl | Madeira Crested Ivory |
| Argyranthemum Madeira Crested Primrose | Madeira Crested Ivory |
| Argyranthemum Madeira Deep Pink | Madeira Deep Pink Improved |
| Bacopa Abunda Blue | Abunda Colossal Blue |
| Coleus Red Ruffles | Coleus Redhead |
| Dahlia Melody Bolero | Delicious Raspberry |
| Dahlia Melody Gypsy | — |
| Dahlia Melody Latin | — |
| Dahlia Melody Lisa | — |
| Dahlia Melody Swing | — |
| Dahlia Dahlietta Blanca | Dahlietta Blanca Improved |
| Dahlia Dahlietta Margaret | Dahlietta Julia |
| Dahlia Delicious Strawberry Cream | Dahlietta Lily |
| Euryops Sonnenschein | — |
| Gaillardia Torch Red Ember | — |
| Gaillardia Torch Yellow | — |
| Geranium Colorcade Burgundy | Precision Burgundy |
| Geranium Colorcade Burgundy Ice | Precision Burgundy Ice |
| Geranium Colorcade Cherry Red | Precision Scarlet Red |
| Geranium Colorcade Dark Lavender | Precision Dark Lavender |
| Geranium Colorcade Deep Pink | Precision Pink |
| Geranium Colorcade Lilac | Precision Lavender |
| Geranium Colorcade Pink | Precision Pink |
| Geranium Colorcade Purple | Precision Blue |
| Geranium Colorcade Red | Precision Ruby |
| Geranium Colorcade Red Ice | Precision Red Ice |
| Geranium Colorcade Ruby | Precision Ruby |
| Geranium Colorcade Violet | Precision Dark Burgundy |
| Geranium Colorcade White | Precision White Red Eye |
| Geranium Galleria Bright Sunrise | Galleria Sunrise |
| Geranium Galleria Deep Rose | Galleria Pink Punch |
| Gernanium Allure Picotee Pink | Allure Light Pink |
| Geranium Designer Light Pink Sizzle | Designer Dark Pink Sizzle |
| Geranium Designer Picotee Salmon | Designer Salmon Improved |
| Geranium Designer Salmon | Designer Salmon Improved |
| Geranium Designer Scarlet | Designer Scarlet Red |
| Geranium Fantasia Shocking Pink | Fantasia Shocking Pink Improved |
| Geranium Showcase Bright Red | Presto Brilliant Red |
| Geranium Showcase Dark Salmon | Presto Dark Salmon |
| Geranium Showcase Deep Scarlet | Presto Deep Scarlet |
| Geranium Showcase Extreme Rose | Presto Extreme Rose |
| Geranium Showcase Light Lavender | Presto Pink |
| Geranium Showcase Pink | Presto Pink |
| Geranium Showcase Pink Sizzle | Presto Pink Sizzle |
| Geranium Showcase Purple | Presto Violet |
| Geranium Showcase Rose Sizzle | Presto Rose Sizzle |
| Geranium Showcase Salmon | Presto Light Salmon |
| Geranium Showcase Scarlet | Presto Deep Scarlet |
| Geranium Showcase White | Presto White |
| Exotic Impatiens Fusion Sunset Peach | Fusion Glow Yellow |
| New Guinea Impatiens Celebration Blush Pink | Celebration Icy Blue |
| New Guinea Impatiens Celebration Electric Pink | Celebration Pink |
| New Guinea Impatiens Celebrette Purple | Celebrette Grape Crush |
| New Guinea Impatiens Celebrette Wild Plum | Celebrette Cherry Stripe |
| Spreading Impatiens Fanfare Pink Sparkle | Fanfare Bright Coral |
| Lantana Landmark Pink Glow | Landmark Rose Glow |
| Lantana Lucky Lemon Cream | Lucky Lemon Glow |
| Lantana Radiation | Lantana Pinata |
| Osteospermum Serenity Dark Lavender | Serenity Pink |
| Osteospermum Serenity Honey Gold | Serenity Golden |
| Osteospermum Serenity Vanilla | Serenity White |
| Spreading Double Petunia Double Wave Misty Lilac | Double Wave Lavender |
| Trailing Petunia Suncatcher Pink Vein | Suncatcher Pink Lemonade |
| Plumbago Imperial Blue | — |
| Purslane Fairytales Sleeping Beauty | Fairytales Cinderella |
| Salvia greggii Flame | — |
| Salvia greggii Lipstick | — |
| Salvia greggii Pink | — |
| Salvia greggii Navajo Bright Red | — |
| Salvia greggii Navajo Dark Purple | — |
| Salvia greggii Navajo Rose | — |
| Salvia leucantha Midnight | — |
| Salvia microphylla Hot Lips | — |
| Verbena Aztec Raspberry | Aztec Burgundy |
| Verbena Aztec White | Aztec White Improved |

MixMasters Pixie Dust contains Pinstripe Petunia, Sun Spun White Petunia and Aztec Silver Magic Verbena. See page 3 for more information.

800 879-BALL
Fax: 800 234-0370
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